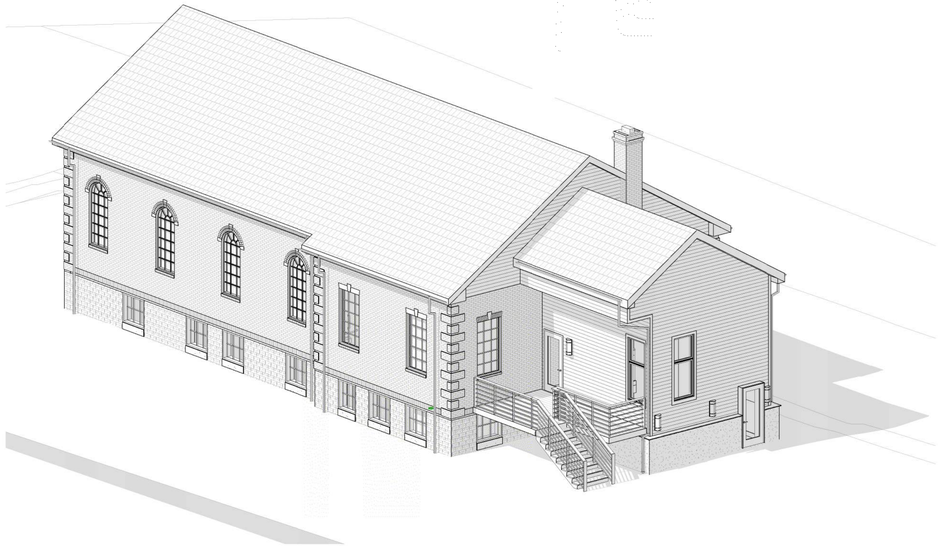

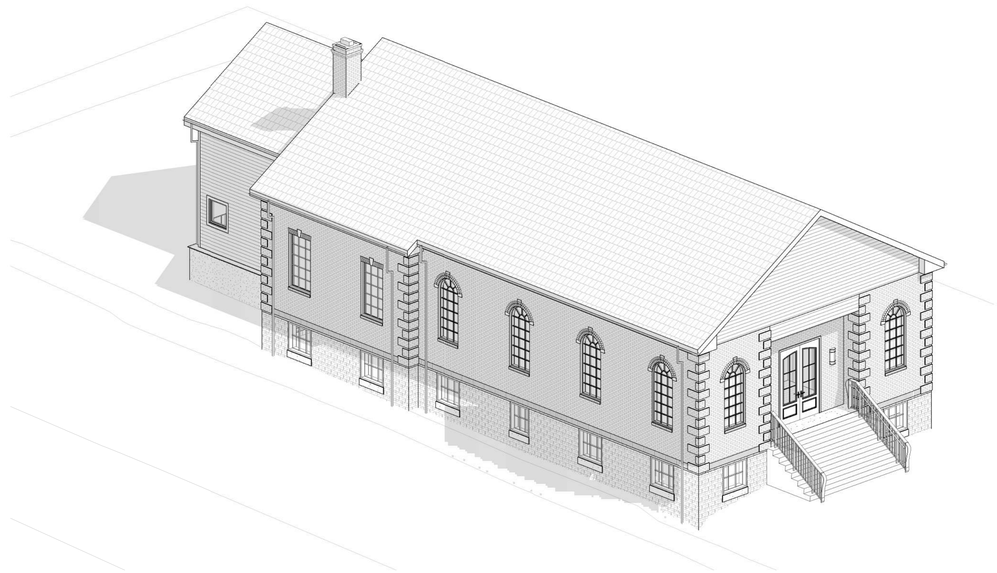

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FOR CONSTRUCTION

1.25.2023

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DATE: 1.25.2023
DRAWN BY: MZA
PROJECT NO: 2207

ABBREVIATIONS

SYMBOLS

&	AND
∠	ANGLE
@	AT
#	NUMBER / POUND
℄	CENTERLINE
ℙ	PROPERTY LINE

A

AB	ANCHOR BOLT
ABV	ABOVE
AC	AIR CONDITIONING / AIR CONDITIONER
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADJ	ADJACENT / ADJUSTABLE
AFC	ABOVE FINISH CEILING
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APP'D	APPROVED
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AV	AUDIO VISUAL

B

BC	BOTTOM OF CURB
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM / BENCHMARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOF

C

CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CIP	CAST IN PLACE
CI	CURB INLET
CJ	CONTROL JOINT
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNSK	COUNTERSUNK
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR / CORRUGATED
CRS	COURSE
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER

D

DBL	DOUBLE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN / EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION (ABOVE GRADE)
ELECT	ELECTRICAL
ELEV	ELEVATION (BUILDING ELEVATION)
ELV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXPO	EXPOSED
EXIST	EXISTING
EXT	EXTERIOR

F

FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIN	FINISH OR FINISHED
FLR	FLOOR
FLG	FLASHING
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNACE/ FURNITURE
FURR	FURRING
FWC	FABRIC WALLCOVERING

G

GA	GAGE / GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFI	GROUND FAULT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM WALLBOARD

H

HT	HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE
HDBD	HARDBOARD
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HI	HIGH
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER

I

ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JBOX	JUNCTION BOX
JST	JOIST
JT	JOINT

K

KIT	KITCHEN
KO	KNOCKOUT

L

L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LTG	LIGHTING

M

MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	MARBLE TILE
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION

N

N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC	OFFICE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OPCI	OWNER PROVIDED CONTRACTOR INSTALLED

P

PC	PRE-CAST
PERF	PERFORATED
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PORC	PORCELAIN
POS	POINT OF SALE
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUARRY TILE
QTY	QUANTITY

R

R	RADIUS / RISER
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE / SEALED CONCRETE
SCHED	SCHEDULE
SD	SMOKE DETECTOR / STORM DRAIN
SECT	SECTION
SHTG	SHEATHING
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SY	SQUARE YARD
SYM	SYMMETRICAL

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TOC	TOP OF CURB
TEL	TELEPHONE
THK	THICK(NESS)
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZZO
TBD	TO BE DETERMINED
TBS	TO BE SELECTED

U

UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL

V

VCT	VINYL COMPOSITION TILE
VB	VAPOR BARRIER / VINYL BASE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING

W

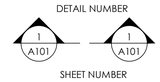
W	WEST / WIDTH
WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WI	WROUGHT IRON
WP	WATERPROOF
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC

Y

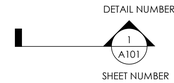
YD	YARD / YARD DRAIN

SYMBOLS LEGEND

BUILDING SECTION

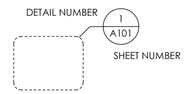


WALL SECTION



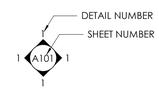
DETAIL SECTION

DETAIL / FLOOR PLAN CALLOUT



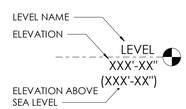
EXTERIOR ELEVATION

INTERIOR ELEVATION



WINDOW / CURTAIN WALL ELEVATION

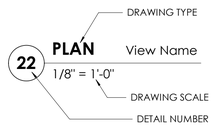
VERTICAL ELEVATION / LEVEL



SPOT ELEVATION

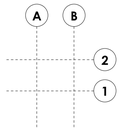
REVISION CLOUD & TAG

VIEW TITLE

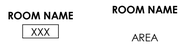


GRAPHIC SCALE

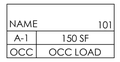
GRIDS HEADS / LINES



ROOM TAGS



ROOM OCCUPANCY TAG



ROOM FINISH TAG

DOOR TYPE TAG

WALL TYPE TAG

WINDOW TYPE TAG

CEILING TAG

CURTAIN PANEL TYPE TAG

CODED NOTE

FURNITURE TAG

NORTH ARROW

INDEX OF DRAWINGS

SHEET NO.	SHEET NAME	REV. NO.	REV. DATE
GENERAL			
G000	COVER SHEET		
G001	DRAWING INDEX		
G002	GENERAL NOTES		
G003	ACCESSIBILITY		
G004	WALL TYPE SCHEDULE		
G100	LIFE SAFETY & BUILDING DATA		
CIVIL			
C130	CIVIL SITE PLAN		
STRUCTURAL			
S000	STRUCTURAL COVER SHEET AND INDEX OF STRUCTURAL DRAWINGS		
S001	STRUCTURAL GENERAL NOTES		
S002	TYPICAL DETAILS & SCHEDULES		
S003	TYPICAL DETAILS & SCHEDULES		
S010	BRACED WALL PLAN		
S100	FOUNDATION AND BASEMENT AND FIRST FLOOR FRAMING PLAN		
S200	ROOF FRAMING PLAN		
S201	FOUNDATION SECTIONS AND DETAILS		
S202	FLOOR FRAMING SECTIONS		
S203	ROOF FRAMING SECTIONS		
ARCHITECTURAL			
A001	SELECTIVE DEMOLITION PLANS		
A100	NEW CONSTRUCTION PLANS		
A101	ROOF PLAN		
A110	REFLECTED CEILING PLANS		
A201	EXTERIOR ELEVATIONS		
A202	EXTERIOR ELEVATIONS		
A301	BUILDING SECTIONS		
A401	BATHROOM - ENLARGED PLANS & ELEVATIONS		
A402	CASEWORK - ENLARGED PLANS & ELEVATIONS		
A403	STAIR & ELEVATOR ADDITION - ENLARGED PLANS AND SECTIONS		
A404	EXTERIOR STAIRS - ENLARGED PLANS & ELEVATIONS		
A501	INTERIOR DETAILS		
A502	ADDITION STAIR DETAILS		
A503	ADDITION EXTERIOR DETAILS		
A601	DOOR & FINISH SCHEDULES		
PLUMBING			
P001	SPECIFICATIONS		
P101	WASTE/VENT PLAN		
P102	WATER PLAN		
P201	DETAILS		
P301	RISERS		
MECHANICAL			
M001	SPECIFICATIONS		
M002	SCHEDULES		
M003	SCHEDULES		
M004	COMCHECK		
M005	COMCHECK		
M101	HVAC FLOOR PLAN		
M201	DETAILS		
ELECTRICAL			
E101	ELECTRICAL SYMBOLS & NOTES		
E201	LIGHTING PLANS		
E301	POWER PLANS		
E302	MECHANICAL POWER PLANS		
E401	ELECTRICAL SCHEDULES		
E501	ELECTRICAL DETAILS		
E601	ELECTRICAL SPECIFICATIONS		

MATERIALS LEGEND

ALUMINUM	GLASS - SMALL SCALE	WOOD - ROUGH FRAMING
ACOUSTIC CEILING	GRANULAR FILL	WOOD - ROUGH BLOCKING
BRICK	GYPSUM BOARD	WOOD - FINISHED
CONCRETE MASONRY	INSULATION - BATT	GLASS - LARGE SCALE
CONCRETE	INSULATION - RIGID	STEEL
EARTH	PLYWOOD	

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SHEET TITLE

DRAWING INDEX

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	MZA
PROJECT NO.	2207

SHEET NO.

G001

GENERAL NOTES:

NOTE: SOME OF THE NOTES BELOW MAY NOT APPLY IF WORK IS NOT BEING PERFORMED IN THOSE AREAS. I.E. NEW DOORS.

1. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, 2017 EDITION, GOVERNS THIS WORK, UNLESS OTHERWISE NOTED; MOST STRINGENT REQUIREMENTS PREVAIL.
2. INVESTIGATE FIELD CONDITIONS AND ASCERTAIN THAT WORK IS FEASIBLE AS SHOWN. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY PROBLEMS WITH FIELD CONDITIONS PRIOR TO THE SUBMISSION OF A BID.
3. IMMEDIATELY ANALYZE CONTRACT DOCUMENTS AND REPORT IN WRITING ANY INCONSISTENCIES DISCOVERED THEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ANY DEFECTIVE WORK CAUSED BY PROCEEDING WITH WORK WHERE INCONSISTENCIES OR DISCREPANCIES ON THE DRAWINGS OCCUR AND A CLARIFICATION FROM THE ARCHITECT IS NOT SOUGHT.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS AT THE JOB SITE AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE JOB.
5. CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF AGENCIES HAVING JURISDICTION AND SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL CONSTRUCTION, SAFETY, AND SANITARY LAWS, CODES STATUTES, AND ORDINANCES. ALL FEES, TAXES, PERMITS, APPLICATIONS, AND CERTIFICATES OF INSPECTION, AND THE FILING OF ALL WORK WITH GOVERNMENTAL AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL WORK SHALL BE PERFORMED BY SKILLED AND QUALIFIED WORKERS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES INVOLVED, AND IN COMPLIANCE WITH BUILDING REGULATIONS AND/OR GOVERNMENTAL LAWS, STATUTES & ORDINANCES.
7. EACH TRADE WILL PROCEED IN A FASHION THAT WILL NOT DELAY THE TRADES FOLLOWING THEM. ANY TRADE PERFORMING WORK BASED ON SATISFACTORY COMPLETION OF WORK BY A PRIOR TRADE ACCEPTS RESPONSIBILITY FOR THE READINESS OF THE PRIOR WORK. EACH TRADE SHALL BE RESPONSIBLE FOR COORDINATING ANY EXISTING, HIDDEN AND/OR EXPOSED WORK WITH OTHER TRADES.
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME COSTS.
9. CONTRACTORS SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OF CURRENT DRAWINGS TO ALL TRADES UNDER THEIR JURISDICTION AND SHALL COORDINATE THE WORK INCLUDED IN THE APPLICABLE ARCHITECTURAL, CIVIL &/OR LANDSCAPE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND EQUIPMENT CONSTRUCTION DOCUMENTS WITH THE VARIOUS CONTRACTORS AND SUBCONTRACTORS INVOLVED.
10. ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL SQUARE, TRUE, AND/OR IN PROPER ALIGNMENT WITH EXISTING SURFACES.
11. ALL MATERIALS SHALL BE NEW, UNUSED, AND OF THE HIGHEST QUALITY IN EVERY RESPECT, UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS AT NO COST TO THE OWNER.
12. THE COMPLETED BUILDING ENVELOPE, ROOF, WALLS, FLOORS, DOORS, WINDOWS, AND OTHER BUILDING ENVELOPE PENETRATIONS SHALL BE AIRTIGHT, DRY, AND FREE OF LEAKS. BUILDING ENVELOPE WEATHERPROOFING SYSTEMS SHALL BE INSTALLED IN A "SHINGLED" MANNER SO THAT ANY WATER THAT PENETRATES THE FINISH MATERIAL WILL BE DIRECTED TO AND WILL DRAIN TO THE OUTSIDE. JOINTS AND CRACKS SHALL BE AIR SEALED. IF THE CONTRACTOR HAS ANY QUESTIONS OR CONCERNS REGARDING THE FITNESS OF ANY MATERIAL OR SYSTEM SPECIFIED IN THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED PRIOR TO INSTALLATION OF THE SYSTEMS OR PRODUCTS IN QUESTION.
13. EXAMINE SPECIFIED PRODUCTS AND SUBMIT ANY WRITTEN EXCEPTION OR OBJECTIONS, OR BOTH, WITH ANALYSIS AND RECOMMENDATIONS WITH BID COSTS.
14. PROVIDE SHOP DRAWINGS, PRODUCT DATA, SAMPLES, ETC. FOR FINISHES, LIGHTING & PLUMBING FIXTURES, MILLWORK & HARDWARE ETC. REVIEW STAMP AND SIGN PRIOR TO SUBMISSION; FOR DRAWING SUBMITTALS, SUBMIT ONE LARGE - SCALE REPRODUCIBLE TRANSPARENCY AND TWO PRINTS, CLEARLY SHOWING AND IDENTIFYING COMPONENTS AN THEIR ASSEMBLY; MINIMUM SHEET SIZE 12 X 24 INCHES; MAXIMUM SHEET SIZE 30 X 42 INCHES; ALLOW SPACE FOR ARCHITECTS REVIEW STAMP. ARCHITECT WILL NOT REVIEW SUBMITTALS NOT PREVIOUSLY REVIEWED AND STAMPED BY CONTRACTOR.
15. NO NOTE BY THE ARCHITECT ON A SHOP DRAWING OR SUBMITTAL SHALL BE CONSIDERED AS AN AUTHORIZATION FOR AN INCREASE IN CONTRACT AMOUNT. SHOULD THE CONTRACTOR OR SUPPLIER CONSIDER AN INCREASE WARRANTED, HE SHOULD NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING.
16. DO NOT LOAD STRUCTURES WITH UNUSUAL OR INCREASED LOADS FROM STORAGE OF MATERIALS DURING CONSTRUCTION.
17. CONTRACTOR WILL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FOR ERRORS AND OMISSIONS BY ARCHITECTS APPROVAL OF SHOP DRAWINGS AND SUBMITTALS UNLESS THE CONTRACTOR HAS NOTIFIED THE ARCHITECT IN WRITING OF SUCH DEVIATIONS AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATIONS.
18. ANY CHANGE WHICH RESULTS IN EXTRA COST SHALL NOT PROCEED WITHOUT WRITTEN AUTHORIZATION BY OWNER.
19. THE ARCHITECT AND/OR OWNER SHALL BE INCLUDED IN ALL MEETINGS OR CORRESPONDENCE REGARDING COSTS OF THE PROJECT AND SHALL RECEIVE COPIES OF ALL COST PROPOSALS, CONTRACTS, OR CHANGE ORDERS.
20. WHERE A COMPLEX ASSEMBLY INVOLVING SEVERAL TRADES IS CALLED FOR ON THE DRAWINGS, SUBMIT A SHOP DRAWING SHOWING THE PROPOSED INTERACTION OF ALL THE RELATED ELEMENTS FOR THE ARCHITECTS REVIEW, THIS SHOULD INCLUDE REVISIONS TO EXISTING HVAC LAYOUT & EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE PROPER OPERATION OF ALL SYSTEMS.
21. PRICE, PROVIDE AND INSTALL ALL ITEMS AND LABOR ASSEMBLY, SUCH AS REQUIRED STRUCTURE, BRACING, ACCESS PANELS, JUNCTION BOXES, ITEMS CALLED FOR IN MANUFACTURER'S LITERATURE, ETC.
22. THERE SHALL BE NO SUBSTITUTION OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED. WHERE THE TERMS "EQUAL TO" OR "APPROVED EQUAL" ARE USED, THE ARCHITECT SHALL DETERMINE EQUALITY BASED ON INFORMATION SUBMITTED BY THE CONTRACTOR.
23. THE BURDEN OF PROOF FOR THE ADEQUACY OF A PROPOSED SUBSTITUTION FALLS ON THE CONTRACTOR. SHOULD A SUBSTITUTED PRODUCT FAIL TO PERFORM FOR ANY REASON WHERE THE ORIGINALLY SPECIFIED PRODUCT WOULD HAVE SUFFICED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TESTING TO CERTIFY CONFORMANCE WITH PROJECT REQUIREMENTS AND SHALL PERFORM ALL THE NECESSARY WORK TO REINCORPORATE THE ORIGINAL PRODUCT AT NO ADDITIONAL CHARGE.
24. ALL MATERIALS SUCH AS CONCRETE, STEEL, STRUCTURAL WOOD FRAMING, ETC. SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE INDUSTRY QUALITY CONTROL STANDARDS SUCH AS ACI, APA, ETC.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR HIS WORK.
26. PROTECT THE BUILDING, ITS SYSTEMS, FINISHES, AND RELATED APPURTENANT ITEMS SO AS NOT TO CAUSE DAMAGE DERIVED FROM THE WORK, INCLUDING PROTECTING ADJACENT INTERIOR AND EXTERIOR AREAS FROM DUST AND DAMAGE.
27. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ACCUMULATION OF WASTE MATERIALS OR RUBBISH AND SHALL CLEAN UP AT THE END OF EACH WORK DAY. ALL RUBBISH SHALL BE REMOVED FROM THE SITE - COORDINATE WITH LANDLORD. AT THE COMPLETION OF WORK, LEAVE THE JOB SITE FREE OF ALL MATERIALS THEN DUSTED, BROOM SWEPT, VACUUMED AND MOPPED CLEANED, INCLUDING ALL FLOORS, WALLS, CEILINGS, TRIM MILLWORK, GLASS AND MIRRORS.
28. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGER SCALE DRAWINGS SHALL GOVERN SMALLER SCALE. WRITTEN WORD SHALL BE COMPLEMENTARY WITH DRAWINGS. CLARIFY ANY QUESTIONS PRIOR TO CONSTRUCTION AS SOON AS THEY BECOME APPARENT.
29. PROGRESS PAYMENTS WILL BE BASED ON MONTHLY VALUATION OF ACCEPTABLE WORK COMPLETED AND ACCEPTABLE MATERIAL SUITABLY STORED AT SITE.
30. NOT USED
31. NOT USED
32. CONTRACTOR SHALL INCLUDE IN THE CONTRACT SUM ALL ALLOWANCES ESTABLISHED WITH ARCHITECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INDICATE ANY ITEMS NOT SPECIFIED THAT NEED TO BE CONSIDERED WITHIN THE ALLOWANCE SECTION.
33. UPON COMPLETION OF WORK THE CONTRACTOR SHALL WALK THROUGH WITH ARCHITECT AND/OR OWNER AND COMPILE A "PUNCH LIST" OF CORRECTIONS AND UNSATISFACTORY AND/OR INCOMPLETE WORK. FINAL PAYMENT WILL BE CONTINGENT UPON THE COMPLETION OF THESE ITEMS. ANY COSTS FOR ARCHITECTURAL SERVICES REQUIRED FOR ADDITIONAL PUNCH LISTS DUE TO THE FAILURE OF THE CONTRACTOR TO SATISFACTORILY COMPLETE ITEMS ON THE INITIAL LIST SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.
34. UPON COMPLETION OF CONSTRUCTION SUBMIT THE FOLLOWING CLOSE-OUT DOCUMENTS:
    - A. MAINTENANCE AND OPERATIONS MANUAL FOR ALL EQUIPMENT, ETC.
    - B. CONSENT OF SURETY TO FINAL PAYMENT, AIA FORM G707.
    - C. CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIEN, AIA FORM G706A.
    - D. CONTRACTORS AFFIDAVIT OF PAYMENTS OF DEBTS AND CLAIMS, AIA FORM G706.
    - E. RELEASE OF LIENS FROM ALL SUBCONTRACTORS AND SUPPLIERS WITH CONTRACT AMOUNT OF $1,000 OR MORE.
    - F. ALL WARRANTIES AND GUARANTEES FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, EXCEPT IN THE CASE OF LONGER MANUFACTURERS' WARRANTIES.
    - G. CERTIFICATE OF OCCUPANCY
35. "TYPICAL" MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE NOTED.
36. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED: VERIFY DIMENSIONS AND ORIENTATIONS ON PLANS AND ELEVATIONS
37. "ALIGN" MEANS TO ACCURATELY LOCATE FINISHED FACES IN SAME PLANE.
38. NOT USED
39. FURNISH ALL TEMPORARY FACILITIES AND ALL TEMPORARY UTILITIES NEEDED TO PERFORM THE WORK AND TO MAINTAIN TEMPERATURE AND HUMIDITY LEVELS REQUIRED BY INDUSTRY AND/OR MANUFACTURER'S STANDARDS.
40. VERIFY IF THE OWNER OR THE OWNER'S SUBCONTRACTORS AND THE LANDLORD NEED TO OCCUPY PORTIONS OF THE PROJECT DURING CONSTRUCTION. COORDINATE AND COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT AND FACILITATE THE OWNER'S OPERATION.
42. PROVIDE SECURITY FOR TOOLS AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT AND OWNER'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY OWNER.
43. MAINTAIN ACTIVE FIRE EXTINGUISHERS AT THE PROJECT THROUGHOUT ALL PHASES OF CONSTRUCTION AND THAT WILL MEET SAME SPACING REQUIREMENTS FOR PERMANENT FIRE EXTINGUISHER LOCATIONS - SUCH THAT OCCUPANTS ARE ALWAYS WITHIN 75' OF AN EXTINGUISHER. INCLUDE COST OF RECESSED EXTINGUISHER CABINETS AND EXTINGUISHERS APPROVED BY NFPA FOR THIS OCCUPANCY CLASSIFICATION.
44. THE BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATERTIGHT CONDITION AT ALL TIMES.
45. ALL WORK DURING CONSTRUCTION OR DEMOLITION MUST COMPLY WITH CHAPTER 14 OF THE 2018 INTERNATIONAL FIRE CODE AND NFPA 241 2022 EDITION.
46. APPROVED SET OF PLANS TO BE KEPT ON JOB SITE AT ALL TIMES.
47. ANY CHANGES OR VARIANCES FROM APPROVED PLANS MUST BE SUBMITTED TO CITY OF NASHVILLE OFFICE FOR REVIEW AND APPROVAL, PRIOR TO ANY WORK COMMENCING. AFTER APPROVAL, ALL CHANGES TO BE FORWARD TO GENERAL CONTRACTOR IN FIELD.
48. ALL EMERGENCY LIGHTING, EXIT SIGNS AND OTHER FIRE SAFETY EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OF THE FIRE MARSHAL, 2018 INTERNATIONAL FIRE CODE & 2018 IBC.
49. ALL INTERIOR FINISHES, SMOKE DEVELOPMENT, FLAME SPREAD RATINGS, ETC., SHALL COMPLY WITH CHAPTER 8 OF THE 2012 INTERNATIONAL BUILDING CODE.
50. DOOR HARDWARE SHALL COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
51. ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT, ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36 CFR PARTS 1190 AND 1191 & ICC/ANSI ACCESSIBILITY GUIDELINES
52. ALL PENETRATIONS THROUGH FIRE WALLS MUST BE UL FIRE PROTECTED TO MAINTAIN RATING.
53. ALL BUILDING/PLUMBING/MECHANICAL & ELECTRICAL WORK REQUIRES PERMITS AND ALL PEOPLE DURING WORK, AS WELL AS SUBCONTRACTORS, WILL NEED TO BE PROPERLY LICENSED W/ THE STATE OF TENNESSEE .
54. BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUED FOR THE PROJECT, ALL FINAL INSPECTIONS MUST BE MADE AND APPROVED INCLUDING BUILDING, PLUMBING, GAS/MECHANICAL & REFRIGERATION, ZONING AND ELECTRICAL.
55. ALL SPRINKLER WORK TO BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR. ANY MODIFICATIONS TO SPRINKLER SYSTEM REQUIRE SHOP DRAWINGS FOR REVIEW.
56. ALL ELECTRICAL AND LOW VOLTAGE CABLE WORK PERFORMED IN OR ABOVE PLENUM CEILINGS MUST BE PLENUM RATED.
57. CONTRACTORS SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OF CURRENT DRAWINGS TO ALL TRADES UNDER THEIR JURISDICTION AND SHALL COORDINATE THE WORK INCLUDED IN THE APPLICABLE ARCHITECTURAL, CIVIL &/OR LANDSCAPE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND EQUIPMENT CONSTRUCTION DOCUMENTS WITH THE VARIOUS CONTRACTORS AND SUBCONTRACTORS INVOLVED.
58. PER IBC SECTION - 1404.2 WATER-RESISTIVE BARRIER: A MINIMUM OF ONE LAYER OF NO.15 ASPHALT FELT, COMPLYING WITH ASTM D 226 FOR TYPE 1 FELT OR OTHER APPROVED MATERIALS, SHALL BE ATTACHED TO THE STUDS OR SHEATHING, WITH FLASHING AS DESCRIBED IN SECTION 1405.4, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENEER.
59. PER IBC SECTION - 1405.4 FLASHING: FLASHING SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT MOISTURE FROM ENTERING THE WALL OR TO REDIRECT IT TO THE EXTERIOR. FLASHING SHALL BE INSTALLED AT THE PERIMETERS OF EXTERIOR DOOR AND WINDOW ASSEMBLIES, PENETRATIONS AND TERMINATIONS OF EXTERIOR WALL ASSEMBLIES, EXTERIOR WALL INTERSECTIONS WITH ROOFS, CHIMNEYS, PORCHES, DECKS, BALCONIES AND SIMILAR PROJECTIONS AND AT BUILT-IN GUTTERS AND SIMILAR LOCATIONS WHERE MOISTURE COULD ENTER THE WALL. FLASHING WITH PROJECTING FLANGES SHALL BE INSTALLED ON BOTH SIDES AND THE ENDS OF COPINGS, UNDER SILLS AND CONTINUOUSLY ABOVE PROJECTING TRIM.

DEMO NOTES:

1. REMOVE EXISTING CONSTRUCTION AS NOTED. TYPICAL WALL REMOVAL INCLUDES FINISHES, DOORS, DOOR FRAMES, WINDOWS AND WINDOW FRAMES, CASEWORK AND FIXTURES AS REQUIRED.
2. REPAIR DAMAGE AND REPLACE REMOVED SURFACE MATERIALS TO MATCH ADJACENT SURFACES IN FLOORS, WALLS AND CEILINGS, ETC. TO REMAIN. PATCH ADJOINING WALLS, FLOOR AND DECK, AND PREPARE FOR NEW FINISH PER FINISH SCHEDULE OR PATCH TO MATCH EXISTING CONDITIONS.
3. DURING DEMOLITION, CONTRACTOR SHALL BRACE AND SUPPORT ALL EXISTING STRUCTURES AS NEEDED. JOB SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL NOT CUT STRUCTURAL WORK IN ANY MANNER WHICH RESULTS IN A REDUCTION OF LOAD CARRYING CAPACITY. NOTIFY ARCHITECT OF ALL STRUCTURAL CUTS PRIOR TO EXECUTION.
5. DEMOLISHED MATERIAL, NOT OTHERWISE DESIGNATED BY THE DRAWINGS OR OWNER'S REPRESENTATIVE, SHALL BE CONSIDERED PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE AND DISPOSED OF IN A LAWFUL MANNER.
6. IN THE EVENT OF DEMOLITION OF ITEMS NOT SCHEDULED TO BE DEMOLISHED, PROMPTLY REPLACE SUCH ITEMS AT NO ADDITIONAL COST TO THE OWNER.
7. WHEN REMOVING EXISTING FLOOR MATERIALS, CLEAN FLOOR TO SLAB, REMOVE ALL GLUE ETC. TO SLAB OR SUBFLOOR, EXCEPT AS NOTED. FULFILL MANUFACTURER'S SPECIFICATIONS FOR FLOOR PREP FOR INSTALLATION OF THEIR PRODUCT WHERE NEW MATERIALS ARE BEING INSTALLED.
8. NOTIFY THE ARCHITECT OF ANY UNFORESEEN CONDITIONS THAT ARE EXPOSED OR DISCOVERED AS EXISTING CONDITIONS ARE EXPOSED.
9. THESE DRAWINGS HAVE BEEN DEVELOPED FROM RECORD DRAWINGS AND MAY NOT REFLECT EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH FIELD CONDITIONS AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY INCONSISTENCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS.
10. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS, EVEN THOUGH THE EXISTING CONDITIONS ARE DRAWN CORRECTLY ON THE PLANS.
11. IF EXISTING FIREPROOFING OR FIRE ASSEMBLIES TO REMAIN ARE DAMAGED DURING DEMOLITION, THEY SHALL BE REPAIRED TO MEET ORIGINAL FIRE PROTECTION REQUIREMENTS.
12. DEMOLITION OF THE WORK SHALL BE EXECUTED IN CONFORMANCE WITH APPLICABLE BUILDING CODES AND REGULATIONS.
13. THE BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATERTIGHT CONDITION AT ALL TIMES.
14. USE MEANS NECESSARY TO PREVENT DUST FROM BECOMING A NUISANCE TO THE PUBLIC, TO NEIGHBORS AND TO OTHER WORK BEING PERFORMED ON OR NEAR THE SITE.
15. CONTRACTOR SHALL COORDINATE THE UNAVOIDABLE DISRUPTION OF PLUMBING SERVICE WITH THE OWNER'S REPRESENTATIVE WHEN THE PIPING TO BE DEMOLISHED IS DISCONNECTED FROM THE EXISTING PLUMBING SERVICE LINES, WHICH SHALL REMAIN.
16. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK.
17. THESE DEMOLITION DOCUMENTS ANTICIPATE THAT NO ASBESTOS WILL BE ENCOUNTERED. IN THE EVENT ASBESTOS IS ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
18. REPAIR DAMAGE AND REPLACE REMOVED SURFACE MATERIALS TO MATCH ADJACENT SURFACES IN FLOORS, WALLS AND CEILINGS, ETC. TO REMAIN. PATCH ADJOINING WALLS, FLOOR AND DECK, AND PREPARE FOR NEW FINISH PER FINISH SCHEDULE OR PATCH TO MATCH EXISTING CONDITIONS. CMU PATCH WORK SHALL MATCH EXISTING TYPE AND IS TO BE TOOTHED IN TO EXISTING CMU.
19. SHORING OF EXISTING TO REMAIN IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR-COORDINATE WITH STRUCTURAL DRAWINGS

FINISH NOTES:

1. CONFIRM DELIVERY DATES OF ALL FINISH MATERIALS AS APPLICABLE; INFORM THE ARCHITECT IN WRITING OF ANY PROBLEM WITH SCHEDULE.
2. SUBMIT TO THE ARCHITECT FOR REVIEW PRIOR TO APPLICATION THREE APPROXIMATELY 8.5 X 11 INCH SAMPLES OF ALL FINISHES. APPLY FINISH SAMPLES TO SAME MATERIALS AS OCCUR IN FIELD.
3. SUBMIT EVIDENCE, WITH FINISH SAMPLES, OF THEIR COMPLIANCE WITH FIRE AND BUILDING CODES AND REGULATIONS IN RESPECT TO FLAME SPREAD, SMOKE AND OTHER RELATED SAFETY ISSUES; CONDUCT MATERIALS AND ASSEMBLIES TESTING AS APPLICABLE AND AS REQUIRED; AND ACQUIRE REGULATORY APPROVALS, AS APPLICABLE AND AS REQUIRED.
4. VERIFY COLORS WITH THE ARCHITECT IN FIELD PRIOR TO PAINT AND OTHER MATERIAL APPLICATION.
5. ALL WALL AND SOFFIT PAINT TO BE SATIN LATEX (OR EGGSHELL) FINISH. TRIM TO BE SEMI-GLOSS, CEILINGS TO BE FLAT FINISH, UNLESS OTHERWISE NOTED ON DRAWINGS.
6. TAPE AND SAND SMOOTH WITH NO VISIBLE JOINTS, EXISTING PARTITIONS AND OTHER VERTICAL AND HORIZONTAL SURFACES, AS APPLICABLE, SURFACES ARE TO BE FREE OF IMPERFECTIONS AND MARKINGS SUBJECT TO BLEED THROUGH.
7. REPAIR AND REFINISH EXISTING SURFACES TO REMAIN AS REQUIRED TO MATCH NEW CONSTRUCTION AND FINISHES; THIS INCLUDES, BUT IS NOT LIMITED TO, PARTITIONS, DOORS, FRAMES AND APPURTENANT AND RELATED ITEMS.
8. REPAIR, REFINISH AND PREPARE, AS APPLICABLE, EXISTING SURFACES TO RECEIVE NEW MATERIALS; THIS INCLUDES, BUT IS NOT LIMITED TO, FLOORING, BASE BUILDING PARTITIONS, FLOOR SLAB, CEILING, AND RELATED AND APPURTENANT ITEMS AS REQUIRED, UNLESS OTHERWISE NOTED.
9. INSTALL FLOORING PURSUANT TO MANUFACTURER'S INSTRUCTIONS. MOST STRINGENT REQUIREMENTS PREVAIL. PREPARE EXISTING FLOORING OR SLAB TO PREVENT TELEGRAPHING OF UNEVEN AREAS.
10. ALL EXPOSED SURFACES SHOULD BE FINISHED. WHERE FINISH IS MISSING OR UNCLEAR, VERIFY FINISH WITH ARCHITECT.
11. ALL SURFACES SHALL BE PROPERLY PREPARED PRIOR TO THE INSTALLATION OF PAINT; GWB WILL BE SPACKLED (MINIMUM THREE COATS) AND SANDED SMOOTH. APPLY USG FIRST COAT AT ALL GWB IN LIEU OF PRIMER.
12. PAINT SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS OVER PROPERLY PREPARED SURFACES, WITH A MINIMUM OF TWO FINISH COATS, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS. FINISH COAT SHALL ADEQUATELY COVER WITH NO STREAKING OR BLEEDING OF UNDERCOATS.
13. CLEAN ALL SURFACES TO BE PAINTED.
14. INSTALL LAMINATES ONLY WHEN RECEIVING SURFACES ARE IN SATISFACTORY CONDITION FOR INSTALLATION. REMOVE EXCESS ADHESIVE AND THEN CLEAN SURFACES USING MANUFACTURER'S RECOMMENDED SOLVENT AND CLEANING PROCEDURES. FILL IN ALL SEAMS WITH MANUFACTURER'S MATCHING SEAM COMPOUND.
15. USE ADHESIVES RECOMMENDED BY MANUFACTURER'S FOR THE PARTICULAR APPLICATION; INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOST CURRENT PRINTED APPLICATION INSTRUCTION.
16. INSTALL WOODS AND PLASTICS IN CONFORMANCE WITH DETAILS AND MANUFACTURER'S WITH FOLLOWING REQUIREMENTS:
    - A. INSTALL ALL MATERIAL WITH TIGHT JOINTS.
    - B. MITRE CASINGS AND MOLDINGS.
    - C. MAXIMUM RUNNING TRIM TO EXCEED TO 10'-0". MATCH GRAIN AND COLOR ADJACENT PIECES.
    - D. USE FINISH NAILS EXCEPT WHERE SCREWS ARE SPECIFICALLY CALLED FOR OR WHERE SCREWS ARE CONCEALED.
    - E. SET FASTENERS IN FINISHED WOOD SURFACES FOR PUTTYING.
    - F. WHERE VISIBLE, SCREW ATTACHMENT IS REQUIRED, SPACE SCREWS AT EQUAL INTERVALS. SINK AND PUTTY IN FINISHED WOOD SURFACES.
    - G. SELECT AND CUT MATERIAL TO EXCLUDE DAMAGED AREAS.
    - H. FINISH EXPOSED SURFACES TO BE SMOOTH, FREE FROM TOOL AND MACHINE MARKS.
17. THINSET TILE ON TILE BACKER APPROVED BY THE TILE MANUFACTURER FOR USE IN ITS SPECIFIC APPLICATION.
18. INSTALL SCHLUTER SCHIENE EDGE AT EXPOSED TILE EDGES. INSTALL SCHLUTER KERDI SHOWER WATERPROOFING SYSTEMS AT SHOWERS INCLUDING SHOWER PAN LINER, PIPE SEALS, CORNER SEALS, KERDI BAND AND ALL OTHER SYSTEM COMPONENTS. APPROVED SUBSTITUTIONS ARE ALLOWED.
19. MAINTAIN MINIMUM TEMPERATURES NOT LESS THAN 50 DEGREES F (OR GREATER IF REQUIRED BY MANUFACTURES' SPECIFICATIONS) DURING APPLICATION AND CURING PERIODS.
20. ALL INTERIOR FINISHES TO COMPLY WITH THE 2021 NFPA 101 LIFE SAFETY CODE IN REGARD TO SMOKE DEVELOPMENT & FLAME SPREAD RATINGS.

RUDY TITLE
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REVISIONS

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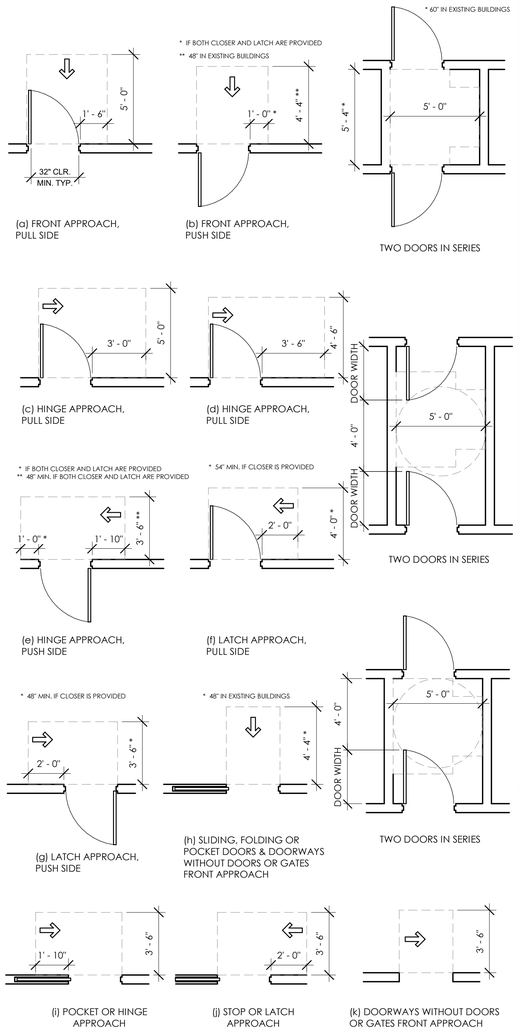
SHEET TITLE
GENERAL NOTES

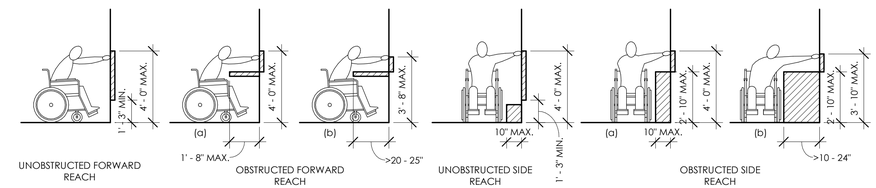
FOR CONSTRUCTION
DATE 1.25.2023
DRAWN BY MZA
PROJECT NO. 2207

SHEET NO.
G002

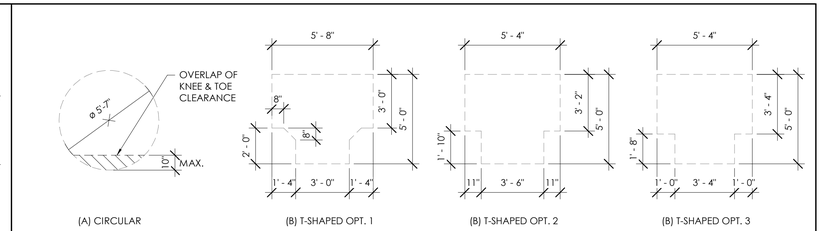
GENERAL NOTE:
THE DRAWINGS ON THIS SHEET ARE FOR GENERAL REFERENCE ONLY. THESE DRAWINGS SHOULD BE USED AS DIAGRAMS FOR GENERAL ACCESSIBILITY STANDARDS ONLY AND MAY NOT NECESSARILY APPLY TO THIS SPECIFIC PROJECT.



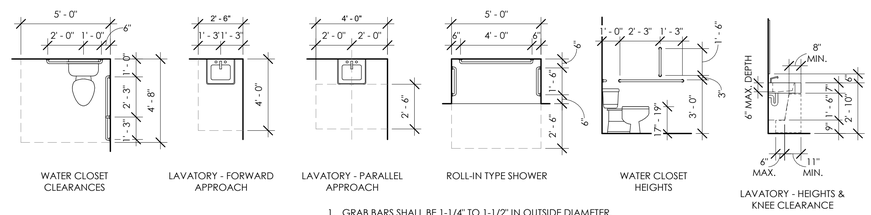
MANEUVERING CLEARANCES AT DOORS



REACH RANGES

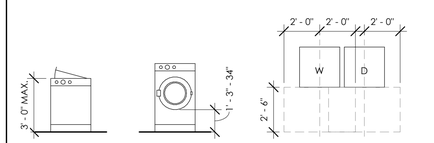


TURNING SPACES

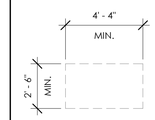


RESTROOM CLEARANCES

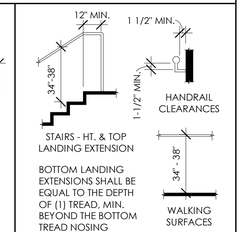
1. GRAB BARS SHALL BE 1-1/4" TO 1-1/2" IN OUTSIDE DIAMETER.
2. ALLOW 1-1/2" BETWEEN GRAB BAR AND FINISH FACE OF ADJACENT WALL/PARTITION.
3. PROVIDE GRAB BAR BLOCKING TO SUPPORT 250LB LOAD APPLIED IN ANY DIRECTION ALONG ITS LENGTH.



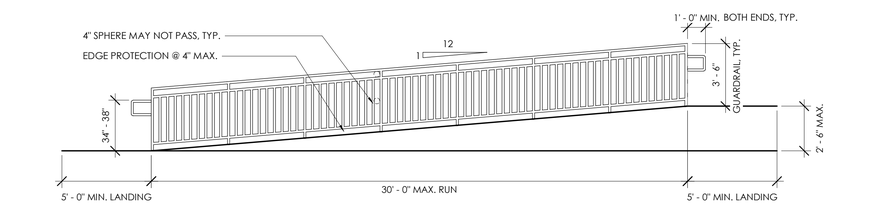
LAUNDRY EQUIPMENT



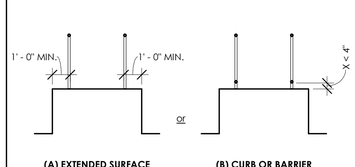
CLEAR FLOOR SPACE



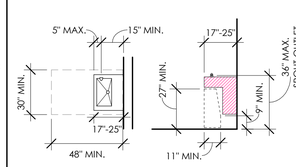
HANDRAIL REQ'S



TYPICAL RAMP & GUARDRAIL REQUIREMENTS

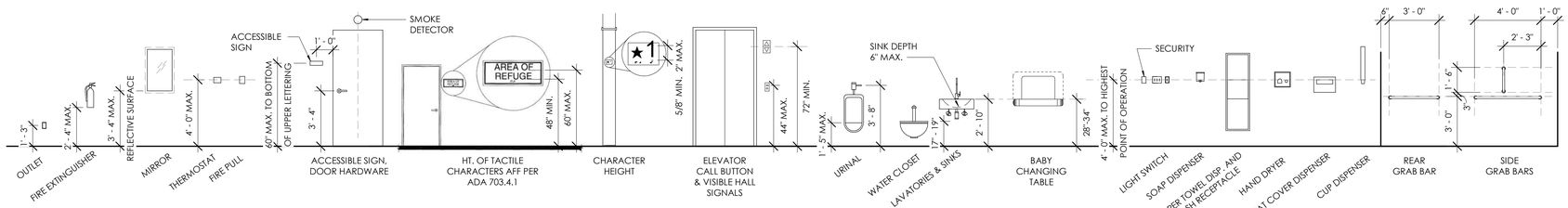


RAMP EDGE PROTECTION

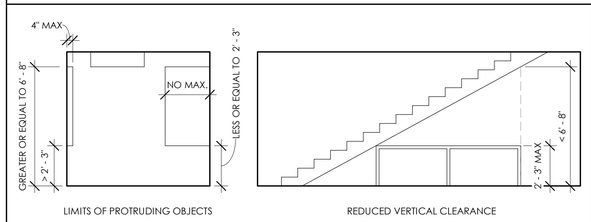


1. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN. AND SHALL BE LOCATED 5" MAX. FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3", THE ANGLE OF THE WATER STREAM SHALL BE 30° MAX. FOR SPOUTS BETWEEN 3" & 5", THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX.
2. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING SHALL BE 38" MIN. AND 43" MAX. AFF

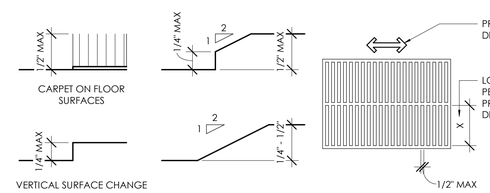
DRINKING FOUNTAIN



ACCESSIBLE HEIGHTS



PROTRUDING OBJECTS



FLOOR SURFACES

SALES AND SERVICE COUNTERS:

2017 ANSI A-117.1: **904.3.2 PARALLEL APPROACH:** "A PORTION OF THE PUBLIC USE SIDE OF COUNTER SURFACE 36 INCHES MINIMUM IN LENGTH AND 26 INCHES MINIMUM TO 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED WHERE THE COUNTER SURFACE IS LESS THAN 36 INCHES IN LENGTH, THE ENTIRE COUNTER SURFACE SHALL BE 34 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR. A CLEAR FLOOR SPACE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED. THE SPACE BETWEEN THE ACCESSIBLE COUNTER SURFACE AND ANY PROJECTING OBJECTS ABOVE THE ACCESSIBLE COUNTER SHALL BE 12 INCHES MINIMUM"

2017 ANSI A-117.1: **904.3.3 FORWARD APPROACH:** "A PORTION OF THE PUBLIC USE SIDE OF THE COUNTER SURFACE 30 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED. A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 SHALL BE PROVIDED UNDER THE ACCESSIBLE COUNTER. THE SPACE BETWEEN THE ACCESSIBLE COUNTER SURFACE AND ANY PROJECTING OBJECTS ABOVE THE ACCESSIBLE COUNTER SHALL BE 12 INCHES MINIMUM"

DESIGN AND CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN COMPLIANCE WITH ICC/ANSI A-117.1 "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES" AS ADOPTED BY METRO NASHVILLE BUILDING CODES ADMINISTRATION.

NOTE: DIAGRAMS TAKEN FROM ICC/ANSI A117.1 AND IBC

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
NO. 102799
STATE OF TENNESSEE
4.12.23

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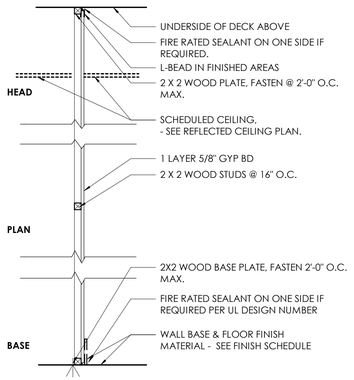
SHEET TITLE
ACCESSIBILITY

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	MZA
PROJECT NO.	2207

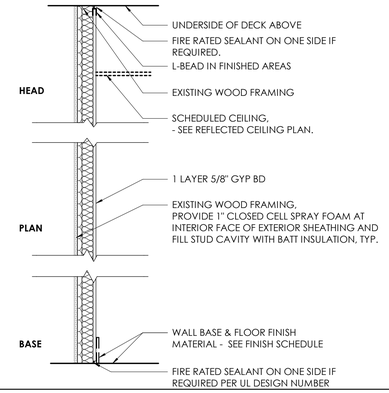
SHEET NO.
G003

TYPE 1 - 2 X 2 WOOD STUD WALL TYPES



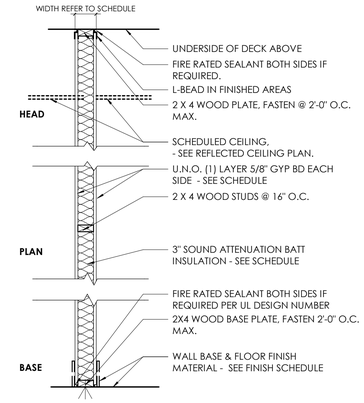
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
1	5/8"	0	Yes	No	No	0 HR			No	04	

TYPE 2 - GWB ONLY WALL TYPES



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
2	0-5/8"	0	Yes	No	No	0 HR			No	04	

TYPE 3 - 2 X 4 WOOD STUD WALL TYPES



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
3C	4 3/4"	2x4	No	Yes	No	0 HR		46	Yes	04	
3E	4 3/4"	2x4	No	Yes	No	0 HR		35	No	04	
3F	4 1/8"	2x4	Yes	No	Yes	0 HR			Yes	05	

GENERAL WALL NOTES

1. ALL DIMENSIONS TO FACE OF WALL UNO.
2. USE 5/8" WATER RESISTANT GYP BD ON ALL WET WALLS, UNO.
3. USE CEMENT BD FOR ALL WALLS TO RECEIVE CERAMIC TILE, UNO.
4. FIRE SAFE ALL JOINTS AND PENETRATIONS AT FIRE RATED PARTITIONS.
5. UL NUMBERS LISTED APPLY ONLY TO THE TESTED MANUFACTURERS. EQUAL MANUFACTURERS' EQUIVALENT ASSEMBLY INFORMATION MUST BE APPROVED BY ARCHITECT.
6. INSULATION MUST EXTEND FULL HEIGHT OF PARTITION. WHERE SOUND ATTENUATION BATTS ARE INDICATED, INSTALL ACOUSTIC SEALANT AS REQUIRED BY STC RATING.
7. WHERE 3 5/8", 4" OR 6" STUD WALLS ARE INDICATED, SEE SPECIFICATIONS FOR HEIGHT LIMITS.
8. REFER TO FINISH SCHEDULE FOR FINISHES.
9. PROVIDE ACOUSTIC SEALANT AT TOP & BOTTOM OF PARTITION AS REQUIRED BY STC RATING.

CODED NOTE LEGEND

01 BRACE EACH STUD @ 4'-0" OC TO BACK-UP WALL FOR ENTIRE HEIGHT OF PARTITION.

02 BRACE EACH STUD @ 8'-0" OC TO BACK-UP WALL FOR ENTIRE HEIGHT OF PARTITION.

03 SMOKE TIGHT SEAL SHALL BE PROVIDED AT TOP, BOTTOM & ENDS OF WALL AND AT ALL PENETRATIONS.

04 FULL HEIGHT PARTITION. TERMINATE GYP BD & STUDS AT DECK ABOVE.

05 STOP GYP BD & STUDS 6" AFC. BRACE PARTITION TO DECK PER METAL STUD MANUFACTURER DESIGN LOADING CRITERIA.

06 FULL HEIGHT SHAFT WALL. TERMINATE GYP BD & STUDS AT DECK ABOVE.

07 FULL HEIGHT PARTITION. TERMINATE GYP BD, PLYWOOD & STUDS AT DECK ABOVE.

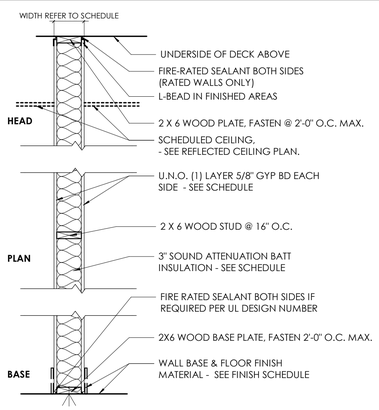
08 FULL HEIGHT PARTITION. TERMINATE CMU AT DECK ABOVE.

09 STOP CMU FULL COURSE ABOVE FINISH CEILING. BRACE WALL TO STRUCTURE PER STRUCTURAL DRAWINGS.

10 FULL HEIGHT PARTITION. TERMINATE CMU AT DECK ABOVE. STOP FURRING & GYP BD @ 6" ABOVE FINISHED CEILING.

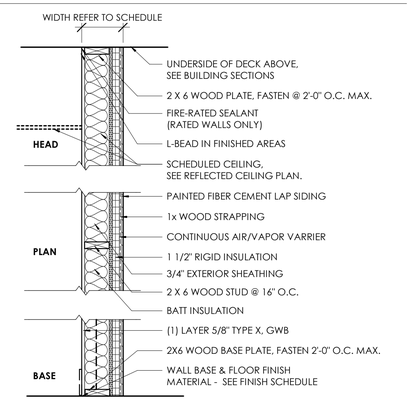
11 STOP WALL FULL COURSE ABOVE FINISH CEILING. BRACE WALL TO STRUCT PER STRUCTURAL DRAWINGS.

TYPE 4 - 2 X 6 WOOD STUD WALL TYPES



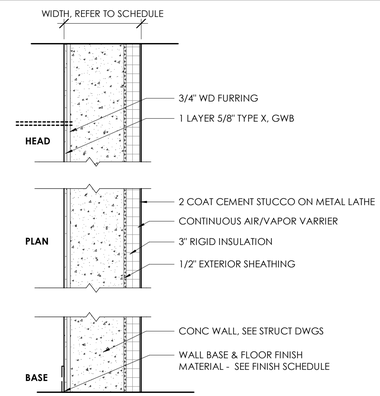
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
4A	4 3/4"	2x4	No	Yes	Yes	1 HR	UL# U305	35 EST.	Yes	04	
4B	6 3/4"	2X6	No	Yes	Yes	1 HR	UL# U305	46 EST.	Yes	04	
4D	6 3/4"	2X6	No	Yes	No	0 HR		35 EST.	Yes	04	

TYPE 5 - NEW EXTERIOR WOOD FRAMED WALL



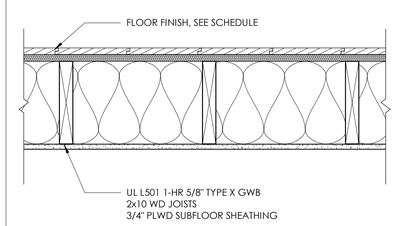
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
5	9 1/4"	2X6	Yes		Yes						

TYPE 6 - NEW EXTERIOR CONCRETE WALL



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
6	1'-5 1/4"		Yes	No	No	0 HR			No	10	

TYPE G2 CEILING - UL DESIGN #L501
1-HR RATED CEILING ASSEMBLY



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SHEET TITLE

WALL TYPE SCHEDULE

FOR CONSTRUCTION

DATE 1.25.2023
DRAWN BY MZA
PROJECT NO. 2207

SHEET NO.

G004

AREA MAP

VICINITY MAP

DESCRIPTION

CONVERSION OF AN EXISTING HISTORIC CHURCH INTO A GENERAL OFFICE.

BUILDING INFORMATION

TENANT	RUDY TITLE @ ESCROW
OWNER NAME	G&M PROPERTIES LLC
OWNER ADDRESS	2012 21ST AVENUE SOUTH, NASHVILLE, TN 37212

SITE INFORMATION

ADDRESS	1926 10TH AVENUE NORTH
PARCEL ID	08107049200
SITE ZONING	OV-DDU, OV-UZO, R6
PROPOSED USE	GENERAL OFFICE
MIN. REAR SETBACK	20'
MIN. SIDE SETBACK	15'
MAX. HEIGHT AT SETBACK LINE	20'
HEIGHT CONTROL PLANE	SLOPE = 2:1
SITE AREA	0.17 AC. (6,796 SF)
MAX. FAR	0.6
EXISTING FAR	.82
PROPOSED FAR	.76
MAX. ISR	0.7
ACTUAL ISR	.47

PARKING REQUIREMENTS

PARKING REQUIRED: 1 SPACE PER 500 SF	5 SPACES - 25 % = 4 SPACES
REQUIRED ACCESSIBLE PARKING	1 ACCESSIBLE SPACE
PROVIDED PARKING: 4 TOTAL	3 STANDARD/ 1 ACCESSIBLE

PROJECT NORTH

GENERAL BUILDING HEIGHTS AND AREAS

DESCRIPTION	REQUIREMENTS	SECTION
CONSTRUCTION TYPE	V-B	IBC TABLE 601
USE GROUP	BUSINESS (B)	IBC CHAPTER 3
ALLOWABLE HEIGHT	40' 2 STORIES	IBC TABLES 504.3, 504.4
ACTUAL HEIGHT: EXISTING, NO CHANGE	APPROX 30' - 6"	
	2 STORIES	
ALLOWABLE AREA PER FLOOR	9,000 SF	IBC TABLE 506.2
ACTUAL AREA:		
BASEMENT	2559 SF	
OCCUPANT LOAD	18	IBC 1004.5
FIRST FLOOR	2632 SF	
OCCUPANT LOAD	18	IBC 1004.5
TOTAL FLOOR AREA:	5191 SF	
TOTAL OCCUPANT LOAD	36	
MAX. AREA OF OPENINGS BASED ON SEPARATION		**IBC TABLE 705.8**
EXTERIOR WALL: NORTH		
FIRE SEPARATION DISTANCE	20' < 25'	
DEGREE OF OPENING PROTECTION	UP, NS	
ALLOWABLE AREA	45 %	EXISTING, NO CHANGE
EXTERIOR WALL: SOUTH		
FIRE SEPARATION DISTANCE	0' < 3'	
DEGREE OF OPENING PROTECTION	UP, NS	
ALLOWABLE AREA	NOT PERMITTED	EXISTING, NO CHANGE
EXTERIOR WALL: EAST		
FIRE SEPARATION DISTANCE	> 30'	
DEGREE OF OPENING PROTECTION	UP, NS	
ALLOWABLE AREA	NO LIMIT	
EXTERIOR WALL: WEST		
FIRE SEPARATION DISTANCE	> 30'	
DEGREE OF OPENING PROTECTION	UP, NS	
ALLOWABLE AREA	NO LIMIT	

RATING REQUIREMENTS FOR BUILDING ELEMENTS

CONSTRUCTION TYPE V-B	RATING	UL #	SECTION
PRIMARY STRUCTURAL FRAME	0 HR		
EXTERIOR BEARING WALLS	0 HR	UL U314	
EXTERIOR NON-BEARING WALLS			
FIRE SEPARATION DISTANCE	> 30'		
OCCUPANCY GROUP: (B)	0 HR		**IBC TABLES 601, 602, UL**
INTERIOR BEARING WALLS	0 HR		
INTERIOR NON-BEARING WALLS	0 HR		
FLOOR CONSTRUCTION	0 HR		
ROOF CONSTRUCTION	0 HR		

FIRE-RESISTIVE-RATED CONSTRUCTION

DESCRIPTION	REQUIREMENTS	SECTION
STAIRWAY ENCLOSURES	0 HR, NO...	IBC 712.1.9
SHAFT ENCLOSURES	1 HR	IBC 713.4
CORRIDOR RATING: OCCU LOAD < 30	0 HR	IBC TABLE 1020.1
FIRE DAMPER RATING	1.5 HR	TABLE 717.3.2.1
PROTECTION OF OPENINGS		
DOORS	SEE DOOR SCHED.	IBC TABLE 716.1(2)
DOOR VISION PANELS/ SIDELIGHTS/ TRANSOMS	SEE DOOR SCHED.	IBC TABLE 716.1(2)

PLUMBING FIXTURE CALCULATIONS

WATER CLOSETS			
BUSINESS	1 PER 25	OC = 36	2 TOTAL REQUIRED WATER CLOSETS
		36 / 25 = 1.44 WCS	
TOTAL FIXTURES PROVIDED			**5 WATER CLOSETS**
LAVATORIES			
BUSINESS	1 PER 40	OC =36	1 TOTAL REQUIRED LAVATORIES
		36 / 40 = .9 LAVS	
TOTAL FIXTURES PROVIDED			**5 LAVATORIES**
DRINKING FOUNTAINS			**2 DRINKING FOUNTAINS**
SERVICE SINKS			**1 REQUIRED, 1 PROVIDED**

MEANS OF EGRESS

DESCRIPTION	REQUIREMENTS	SECTION
COMMON PATH OF EGRESS TRAVEL	**75'**	IBC 1006.2.1
EXIT ACCESS TRAVEL DISTANCE	**200'**	IBC 1017.2
STAIRWAY WIDTH	36" MIN	IBC 1005.3.1/ 1011.2
CORRIDOR WIDTH	36" MIN	IBC TABLE 1020.2
DEAD END CORRIDORS	NA	IBC 1020.4
MINIMUM NUMBER OF EXITS	1	IBC 1006.2.1
NUMBER OF EXITS PROVIDED	3	
ELEVATOR REQUIRED	NOT REQUIRED	IBC 1009.2.1

INTERIOR AND FINISHES

DESCRIPTION	CLASSIFICATION	SECTION
WALL AND CEILING		IBC TABLE 803.13
INTERIOR EXIT STAIR AND EXIT PASSAGEWAYS	A	
CORRIDORS AND EXIT ACCESS	B	
ROOMS AND ENCLOSED SPACES	C	
FLOOR COVERINGS	CLASS II	IBC 804

FIRE PROTECTION SYSTEMS

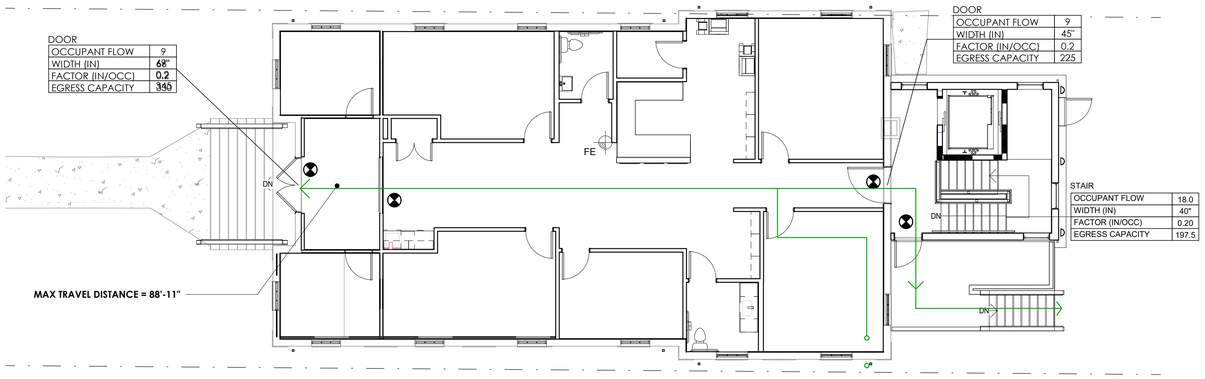
DESCRIPTION	REQUIREMENTS	SECTION
SPRINKLER AND STANDPIPE SYSTEMS	NA	IBC 903.2
FIRE EXTINGUISHERS	SEE PLAN	IBC 906.1, TABLE 906.3(1)
MAX. TRAVEL DISTANCE TO FIRE EXTINGUISHER	75'	TABLE 906.3(1)
FIRE ALARM SYSTEM	NA	IBC 907.2
SMOKE DETECTION	NA	IBC 907.2.10
CARBON MONOXIDE DETECTION	NA	IBC 915.1.1
EMERGENCY POWER FOR ILLUMINATION	NA	IBC 1008.3

ENERGY CODE ENVELOPE ASSEMBLY REQUIREMENTS

PROJECT IS FILED WITH METRO NASHVILLE HISTORIC FOR LANDMARK STATUS AND MEETS THE DEFINITION OF "CONTRIBUTING STRUCTURE". IT IS, PER THE IECC 2018 C501.6, EXEMPT FROM NEEDING TO MEET THE REQUIREMENTS OF THE IECC 2018

GENERAL BUILDING CODES

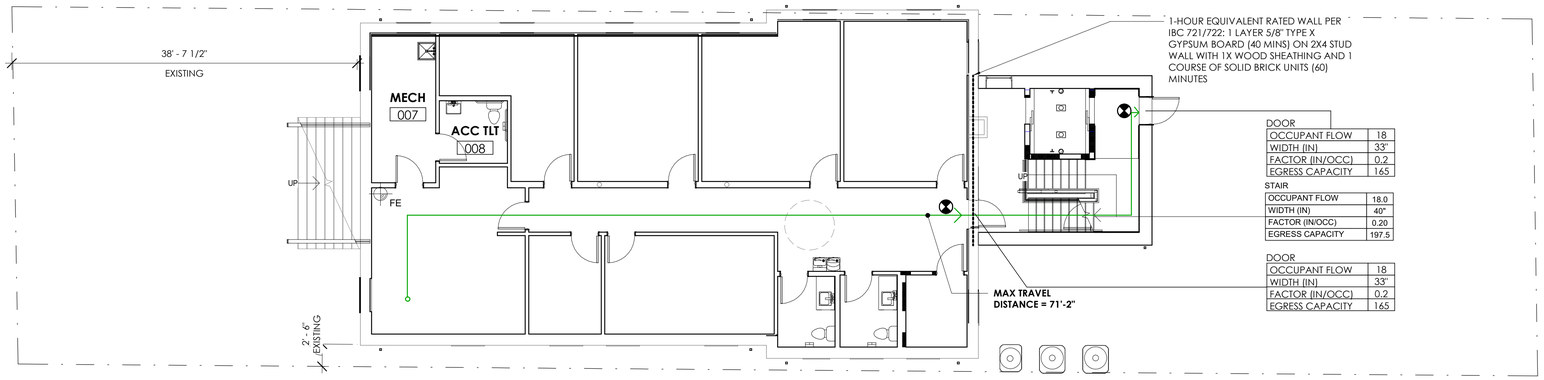
INTERNATIONAL BUILDING CODE	2018
INTERNATIONAL RESIDENTIAL CODE	2018
INTERNATIONAL ENERGY CONSERVATION CODE	2018
ICC/ANSI A-A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	2017
INTERNATIONAL PLUMBING CODE	2018
INTERNATIONAL MECHANICAL CODE	2018
INTERNATIONAL FUEL GAS CODE	2018
INTERNATIONAL ELECTRICAL CODE	2017
INTERNATIONAL FIRE CODE	2018
LIFE SAFETY CODE (NFPA 101)	2012
PLUS LOCAL AMENDMENTS	BL2020-458, 11/5/2020



SEE GENERAL BUILDING HEIGHTS AND AREAS TABLE FOR OCCUPANCY LOADS PER FLOOR

3 FIRST FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"



2 BASEMENT FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"

FIRE EQUIPMENT LEGEND

EXIT SIGNAGE

FE — FIRE EXTINGUISHER AND CABINET, BASIS OF DESIGN: NYSTROM FC-7210-DV-VB-2 PAINT TO MATCH WALL

LIFE SAFETY TAG LEGEND

DOOR

OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

EGRESS CAPACITY DOOR TAG

RATED WALL LEGEND

1 HOUR FIRE RATED PARTITION TO DECK

RUDY TITLE
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SHEET TITLE

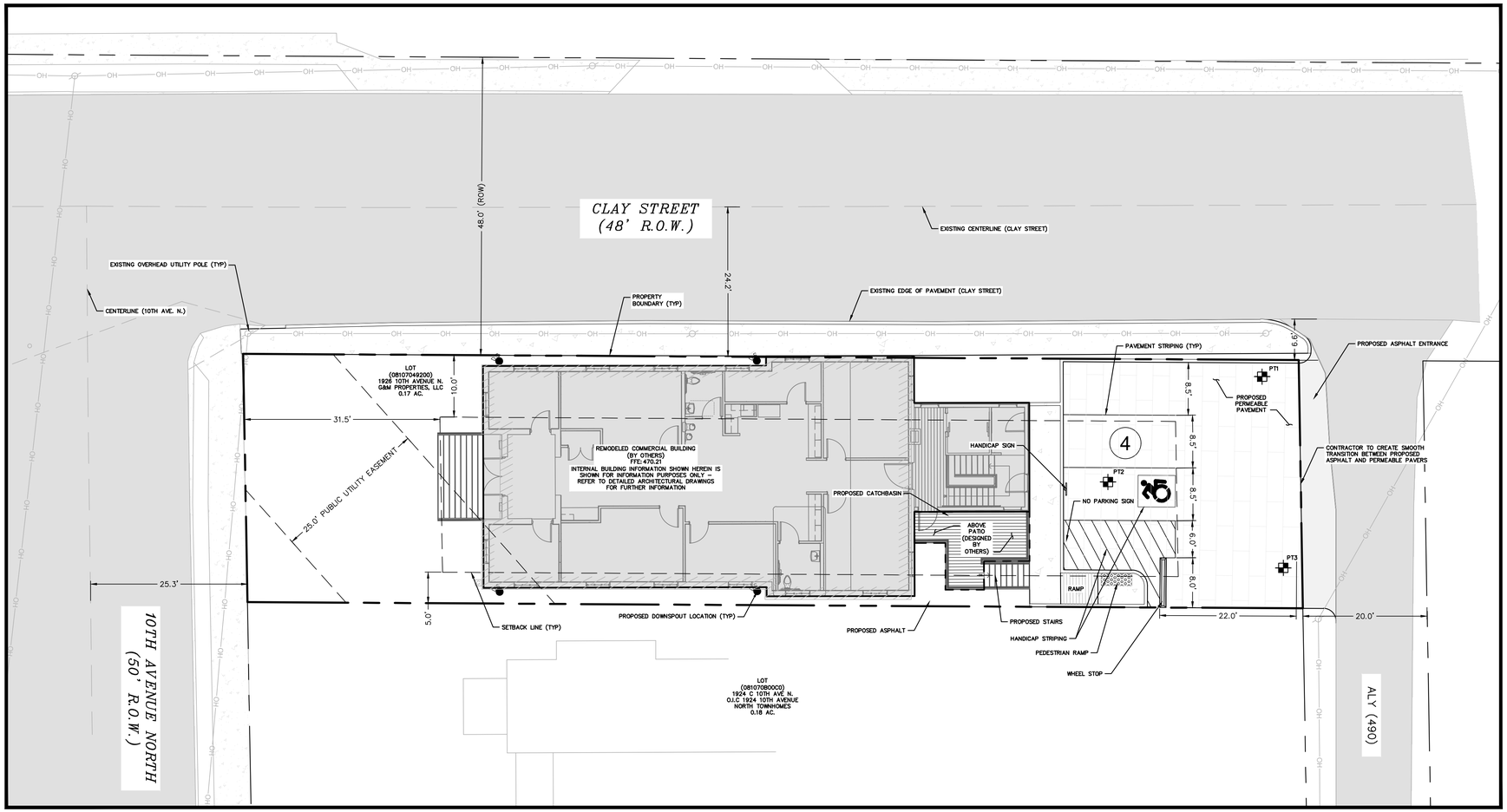
LIFE SAFETY & BUILDING DATA

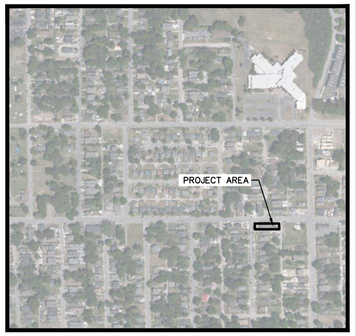
FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	MZA
PROJECT NO.	2207

SHEET NO.

G100





LOCATION MAP
SCALE: 1"=500'

PRE VS POST IMPERVIOUS COVER TABLE	
EXISTING IMPERVIOUS	4,009 ± SQ. FT.
PROPOSED IMPERVIOUS	5,505 ± SQ. FT.
NET CHANGE	(+)1,496 SQ. FT.

FRONT PROPERTY SETBACK:	31.5
REAR PROPERTY SETBACK:	20.0
SIDE PROPERTY SETBACK:	5/10

CIVIL ENGINEER

COLLECTED CIVIL ENGINEERING
921 B WOODLAND STREET
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SURVEYOR

CLINT ELLIOTT SURVEY
P.O. BOX 331875
NASHVILLE, TENNESSEE 37203
PHONE: (615) 490-3236

CONTACTS
JASON GARRETT
PHONE: (615) 490-3236

OWNER:

G&M PROPERTIES, LLC
2012 21ST AVENUE SOUTH
NASHVILLE, TN 37212

PROJECT INFORMATION

PROJECT ADDRESS:
1926 10TH AVENUE NORTH
NASHVILLE, TN 37208
PARCEL ID NO. 08107049200
EXISTING ZONING:
R6
OV-UZO
OV-DDU
SURROUNDING ZONING:
R6
OV-UZO
OV-DDU

ARCHITECT

MANUEL ZEITLIN ARCHITECTS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
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CONTACTS
MARK BIXLER
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Tennessee811
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG

COLLECTED
CIVIL ENGINEERING
921B Woodland Street Nashville, TN 37206

PETER ROMANO JR.
REGISTERED ENGINEER
AGRICULTURE
NO. 119201
STATE OF TENNESSEE
1/25/23

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1926 10th Ave. REDEVELOPMENT

1926 10TH AVENUE NORTH
NASHVILLE, TN 37208

ISSUED FOR: BUILDING PERMIT	
PROJECT NUMBER: PC23-004	DATE: 1/25/23
DRAWN BY: PM	REVIEWED BY: PR
NORTH ARROW: N	SCALE: 1" = 20'

0 1 2
ORIGINAL SCALE IN INCHES

REVISIONS

NO:	DATE:	DESCRIPTION:

DRAWING NAME:

CIVIL SITE PLAN

DRAWING NUMBER:

C130

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2/8/2023 2:16:59 PM
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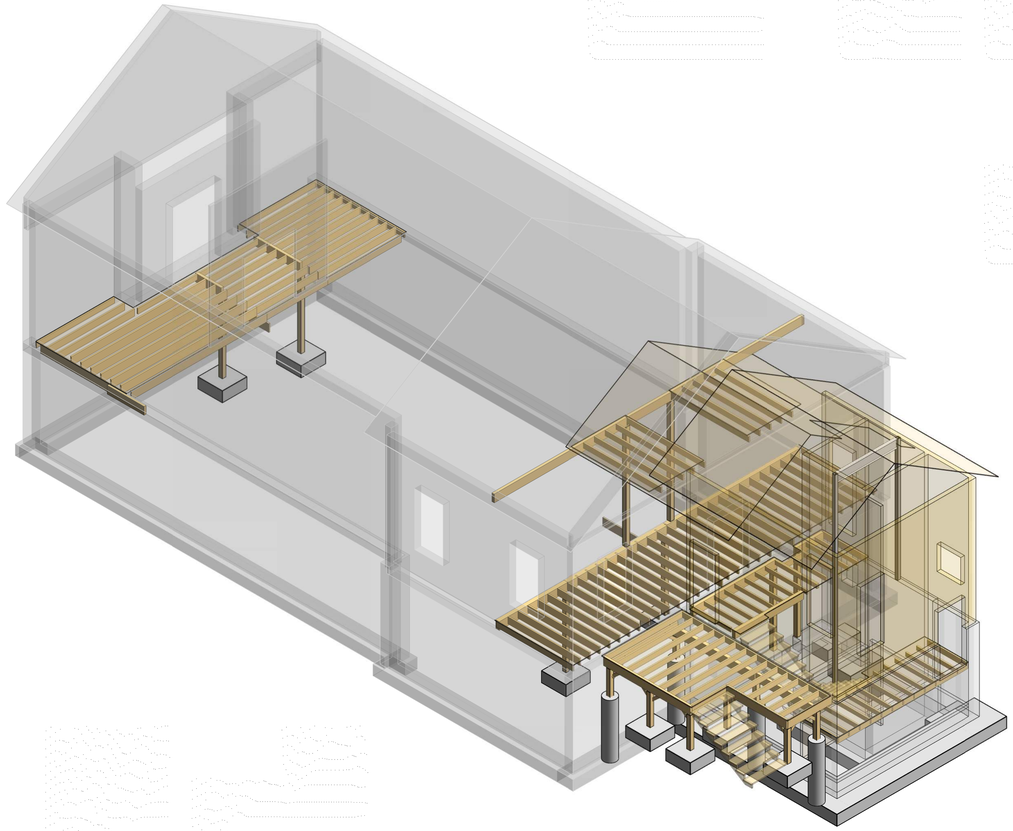
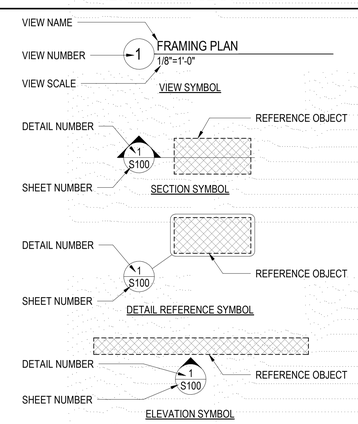


STRUCTURAL AXONOMETRIC OVERVIEW

STRUCTURAL ABBREVIATIONS

ALT	ALTERNATE	EW	EACH WAY	MTL	METAL
APPROX	APPROXIMATELY	EXIST	EXISTING	NIC	NOT IN CONTRACT
ARCH	ARCHITECT	EXP	EXPANSION	NS	NEAR SIDE
BC	BOTTOM CHORD	EXT	EXTERIOR	NTS	NOT TO SCALE
BLDG	BUILDING	FIN	FINISH	OPNG	OPENING
BM	BEAM	FLR	FLOOR	PCJ	PRECAST CONCRETE JOIST
BOTT	BOTTOM	FND	FOUNDATION	PED	PEDESTAL
BRG	BEARING	FS	FAR SIDE	PL	PLATE
CG	CENTER OF GRAVITY	FT	FOOT	PLF	POUNDS PER LINEAR FT
CIP	CAST IN PLACE	FTG	FOOTING	PSF	POUNDS PER SQUARE FT
CJ	CONSTRUCTION JOINT	GA	GAGE	PSI	POUNDS PER SQUARE IN
CL	CENTERLINE	GALV	GALVANIZED	PT	POST TENSIONED
CLR	CLEAR	GC	GENERAL CONTRACTOR	REINF	REINFORCING
CMU	CONCRETE MASONRY UNIT	HC	HOLLOW CORE	REQD	REQUIRED
COL	COLUMN	HCP	HOLLOW CORE PLANK	REV	REVISED/REVISION
CONC	CONCRETE	HK	HOOK	SCHED	SCHEDULE
CONT	CONTINUOUS	HORIZ	HORIZONTAL	SECT	SECTION
CONTR	CONTRACTOR	HP	HIGH POINT	SIM	SIMILAR
CTR	CENTER	INFO	INFORMATION	SOG	SLAB ON GRADE
DBL	DOUBLE	INT	INTERIOR	SPECS	SPECIFICATIONS
DET	DETAIL	JT	JOINT	SQ	SQUARE
DIA / Ø	DIAMETER	K	KIP(s)	STD	STANDARD
DIM	DIMENSION	KIP(s)	1000 POUNDS	STL	STEEL
DN	DOWN	L	ANGLE	STRUCTL	STRUCTURAL
DR	DRAIN	LG	LONG	SW	SHEARWALL/SHORT WAY
DWG	DRAWING	LLH	LONG LEG HORIZONTAL	TEMP	TEMPORARY
EA	EACH	LLV	LONG LEG VERTICAL	TOW	TOP OF WALL
EE	EACH END	LP	LOW POINT	TYP	TYPICAL
EF	EACH FACE	LW	LONG WAY	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	MAS	MASONRY	VERT	VERTICAL
ELEV	ELEVATION	MAX	MAXIMUM	W/	WITH
ENGR	ENGINEER	MECHL	MECHANICAL	W/O	WITHOUT
EOBP	EDGE OF BENT PLATE	MFG	MANUFACTURER	WP	WORK POINT
EOR	ENGINEER OF RECORD	MIN	MINIMUM	WWF	WELDED WIRE FABRIC
EOS	EDGE OF SLAB	MISC	MISCELLANEOUS		
EQ	EQUAL				

VIEW REFERENCE SYMBOLS



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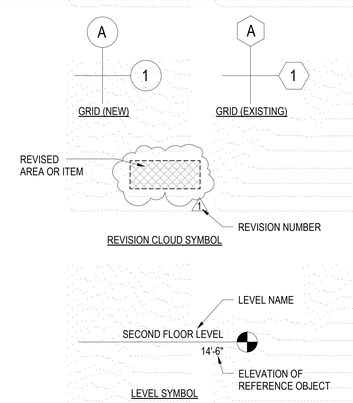

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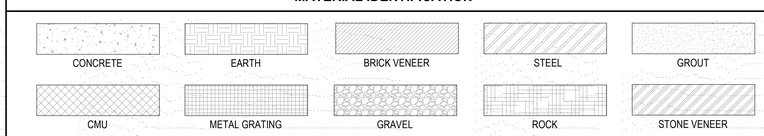

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S001	STRUCTURAL GENERAL NOTES
S002	TYPICAL DETAILS & SCHEDULES
S003	TYPICAL DETAILS & SCHEDULES
S010	BRACED WALL PLAN
S100	FOUNDATION AND BASEMENT AND FIRST FLOOR FRAMING PLAN
S200	ROOF FRAMING PLAN
S201	FOUNDATION SECTIONS AND DETAILS
S202	FLOOR FRAMING SECTIONS
S203	ROOF FRAMING SECTIONS

RUDY TITLE

1926 10TH AVE NORTH
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SHEET TITLE

STRUCTURAL COVER SHEET AND INDEX OF STRUCTURAL DRAWINGS

Project Status

DATE 01/26/2023
DRAWN BY Author
PROJECT NO. 2207

SHEET NO.

S000

STRUCTURAL GENERAL NOTES

1. **GENERAL DESIGN CRITERIA AND CODE INFORMATION:**

A. The construction of this structure shall conform to the IBC 2018.
B. The structural drawings show minor modifications to the existing structure and the design shown in these documents are restricted for these modifications only. The design and overall stability of the existing building are beyond the scope of these drawings.
C. The design of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor. The structure is stable only in its completed form. The temporary bracing for the structure shall remain in place until the permanent bracing is in place.
D. The Contractor is to verify all dimensions and coordinate with Architectural Drawings. Immediately notify Architect of any discrepancies.
E. Contractor responsibilities include but not limited to the following:
   1. Coordinate the Structural Documents with the Architectural, MPE, and Civil Documents. Notify Architect/Engineer of any discrepancy or omission.
   2. Verify existing dimensions and site conditions before starting work. Notify Architect/Engineer of any discrepancy or omission.
   3. Verify location and weights of mechanical equipment and opening sizes as shown on Structural Drawings with the Architectural and Mechanical Drawings. Notify Architect/Engineer of any discrepancy or omission.
   4. Contractor is solely responsible for the means, methods, techniques, sequences, and procedures of construction.
   5. Contractor has sole responsibility to comply with OSHA regulations.
   6. Loads on the structure during construction shall not exceed the design loads as noted in the Design Loads section below or the capacity of partially completed construction.

2. **DESIGN LOADS:**

A. **LIVE LOAD DATA:**
   - Uniformly distributed floor live load = 50 psf
   - Stairs = 100 psf
   - Roof live load = 20 psf
   - Patio = 75 psf

B. **HANDRAILS:**
200 lbs applied at any point in any direction.

C. **GUARDRAILS:**
   - 200 lbs applied at any point in any direction at the top of the guardrail.
   - 50 plf horizontally at the required height simultaneous with 100 plf vertical load.
   - 200 lbs horizontal load on 1 ft. sq at any location.
   - Grab Bars: 250 lb applied in any direction anywhere along the length of the bar.

D. **RISK CATEGORY:II**
   1. Importance factors
      - Is = 1.00
      - Iw = 1.00
      - Ie = 1.00

E. **ROOF SNOW LOAD DATA:**
   - Ground snow load (pg) = 10 psf
   - Flat roof snow load (pf) = 15 psf
   - Snow exposure factor (Ce) = 1.0
   - Thermal factor (Ct) = 1.0

F. **WIND LOAD DATA:**
   - Ultimate Design wind speed, Vult = 105 mph
   - Wind exposure category = C
   - Internal pressure coefficient (GCpi) = ± 0.18

G. SEISMIC LOAD DATA:
   - Response Spectral Acc. at 0.2 sec, Ss = 0.286g
   - Response Spectral Acc. at 1.0 sec, S1 = 0.142g
   - Site class = D
   - Sds = 0.299g
   - Sd1 = 0.22g
   - Seismic design category = D

3. FOUNDATION DESIGN INFORMATION:

A. Assumed safe subgrade bearing capacities listed belowshall be confirmed in the field by a registered Geotechnical Engineer hired by the contractor.
   - Isolated Spread Footings = 2,000 psf
   - Continuous Footings = 2,000 psf
B. Assumed sub-grade modulus for slab on grade design is 100 pci. Proper preparation of the subgrade and subsequent monitoring by a registered geotechnical engineer is critical for the performance of the slab on grade.
C. Where unacceptable material occurs, excavate and replace with engineered fill. Refer to the Geotechnical Engineer for all sub-grade operations.
D. The registered Geotechnical Engineer in the field shall verify all site preparation, filling operations, and bearing conditions comply with soils report.
E. Backfill all walls with free draining crushed stone. Provide a drain system that is a part of the structure.
F. Foundation walls without cantilevered footing shall not be backfilled until shored or permanently supported at top of wall.

4. **REINFORCED CONCRETE:**

A. All concrete work shall conform to ACI318 "Building Code Requirements for Reinforced Concrete", ACI 315 "Manual of Standard Practice for Detailing Reinforced Concrete Structures", and CRSI "Manual of Standard Practice" Latest Edition.
B. The 28- day strength of cast-in-place concrete shall be as follows:
   - Slab-on-Grade 4,000 psi
   - Footings 4,000 psi
C. Concrete shall have a maximum water-cement ratio of 0.45. Concrete mix designs shall be submitted and approved prior to casting of any concrete.
D. All concrete placed shall be consolidated by mechanical vibrators.
E. Reinforcing bars shall conform to ASTM- A615, "Standard specification for deformed and plain billet- steel bars for concrete reinforcement." The minimum yield stress of reinforcing bars shall be 60,000 psi.
F. Welded wire fabric shall conform to ASTM – A185, "Standard specification for steel welded wire fabric, plain, for concrete reinforcement."
G. Complete fabrication and placing drawings for reinforcing steel shall be submitted for approval. No fabrication may begin until drawings are completed and approved.
H. Lap splices for reinforcing steel shall be in accordance with ACI 318. Splices not specifically shown shall be Class B splices unless approved by the Inspector.
I. Reinforcing of all concrete members shall have the following clear concrete cover:
   1. Concrete cast against and permanently exposed to earth 3"
   2. Concrete exposed to earth or weather:
      - #6 through #18 bars 2"
      - #5 bar, W31 or D31 wire, and smaller 1 ½"
   3. Concrete not exposed to weather or in contact with ground:
      - Slabs, walls
      - #14 and #18 1 ½"
      - #11 bar or smaller ¾"
J. The contractor shall provide chairs at 4'-0" center-to-center to support wire mesh while casting slab. Pull fabric up between supports to provide 2" clearance to top of slab. Minimum side and end lap on fabric shall be on wire space.
K. Welding of reinforcing steel shall be done in strict accordance with the American Welding Society "Structural Welding Code – Reinforcing Steel", A.W.S.D1.4. Preheating of reinforcing shall be based on the carbon equivalent determined from reinforcing mill reports. Grade 60 reinforcing shall be welded with E90XX Low Hydrogen Electrodes.
L. Exterior slabs-on-grade shall be 4" thick on a 4" gravel fill and reinforced with WWF 6x6 – W1.4 x W1.4 unless noted otherwise. Construction joints shall be 15'-0" on center maximum.
M. Sawn joints on slab-on-grade shall be accomplished within 24 hours of slab placement.
N. Casts of slab-on-grade shall have no length-to-width ratios exceeding 2. Adjacent casts shall be delayed a minimum of three days.

8. STRUCTURAL STEEL:

A. All structural steel work shall conform to the 14th Edition of the "Steel Construction Manual" of the AISC with the following exceptions: Delete sections 3.2 of Code of Standard Practices for Steel Buildings and Bridges and insert the following: "Architectural, Electrical and/or Mechanical Design drawings shall be used to supplement the Structural Design Drawings for the purposes of defining detail configurations, additional structural framing not shown on the Structural Drawings, and other information required."
B. Fabricators must conform to AISC 303. Section B and AISC 360 Section M2 and M5. Structural welding and qualifications shall conform to the AWS D1.1 The fabricator shall maintain detailed fabrication and erection quality control procedures per IBC Section 1704.2.1 that provides the basis for inspection control of the workmanship and ensures that the work is performed in accordance with Code of Standard Practice, the AISC specification, and the Contract Documents. Fabricators certified by AISC quality certification program with the following level of certification: Sbd - Conventional Steel Building Structures are deemed to comply with this provision.
C. Erection must conform to AISC 303, Section 7 "Erection", Section B "Quality Assurance" and AISC 360, Section M4. The erector shall maintain detailed fabrication and erection quality control procedures that ensures work is performed in accordance with AISC 360 section M, AISC 303, and the Contract Documents.
D. Shop drawings for all structural steel shall be submitted and approved prior to any fabrication. Reproduction of contract drawings is not permitted.
E. All connections shall be the responsibility of the steel fabricator. All connections shall be designed by a Professional Engineer registered in the State of Tennessee and engaged by the steel fabricator. Service loads at the connections are shown on the structural plans or will be provided by the Structural Engineer of record upon request. The steel fabricator's connection designer shall submit calculations to the Structural Engineer of record for his review. The calculations shall be stamped with the professional registration of the connection designer. The connection designer shall review and stamp all shop drawings concerning his connection designs. Shop drawings shall be submitted to the Structural Engineer of record after they have been stamped approved by the general contractor and after the connection designer has reviewed and stamped the shop drawings with his professional registration.
F. Shear connections for non composite beams shall be designed for the load capacity of a simple span beam with continuous lateral support.
G. Structural steel shall meet the following ASTM specifications:
   1. Structural pipe:
      - Wall thickness: >0.625, A53 type E or S, Grade B
      - Wall thickness: <0.625 A500, Grade B.
   2. Structural tube: A500 Grade B.
   3. Steel wide flange sections: A992, Grade 50 unless Grade 65 is noted on the drawings
   4. Steel joists: Refer to provisions of the Steel Joist Institute
   5. Column base plates:
      - Up to 4" thick - A572 Grade 50
   6. All other framing unless noted otherwise on contract documents: A36
H. Steel framing connections shall be bolted or welded. Bolts shall be a minimum of ¾" diameter ASTM A325 or as indicated on the drawings. Each fastener shall be tightened to the minimum tension for the size and grade of fastener used as determined by one of the following methods:
   - Load indicator washers
   - Load indicator bolts
I. Burning of holes, cuts or other penetrations in other structural steel members are not permitted without the approval of the Structural Engineer.
J. Steel beams that bear on masonry walls shall have masonry anchors and shall bear either on bond beams or filled block cores and shall bear a minimum of 8" unless shown otherwise.
K. Beams shall be fabricated and erected with natural camber up.
L. All welds shall conform to ANSI/AWS D1.1, "Structural Welding Code." All groove welds shown on contract documents shall provide complete joint penetration unless noted otherwise. Welding shall be done with E7018 electrodes unless noted otherwise.
M. [ ] denotes deviation from stated top of steel elevation in inches.
N. Grout used in grout beds under column-base plates shall be cement-based, non-shrink grout. The grout shall exhibit no shrinkage in accordance with ASTM C827, "Test Method for early volume change of cementation mixtures," and shall have a minimum 28-day compressive strength of 5,000 psi when tested in accordance with C-109, "Test method for compressive strength of hydraulic cement mortars."
O. Shop or field splices not shown on the contract documents shall be submitted to the Structural Inspector for approval.
P. Structural steel framing shall be erected true and plumb in accordance with AISC code of standard practice. Any framing exceeding the tolerances of the code of standard practice shall be corrected by the contractor at his expense as directed by the Structural Inspector.
Q. The structural steel erector shall provide temporary bracing of the structural steel framework against all gravity construction loads, structure selfweight and lateral loads such as wind. This bracing shall remain in place until the final system for resisting lateral loads is in place and effective as approved by the Structural Inspector. The erector shall engage a qualified Professional Engineer licensed in the location of the project to design a plan and sequence for erection for the lateral stability of the structural steel frame during construction. This Professional Engineer shall seal the plans and sequence and submit it to the engineer of record for review.
R. Steel columns extending below grade and not encased with concrete shall be coated with bitumastic.
S. Steel lintels and shelf angles are to be galvanized in accordance with ASTM A123 and ASTM A384.
T. Galvanized steel and its connections shall conform to ASTM A123, ASTM A153, ASTM A384 and the recommendations of the "American Hot Dip Galvanizes Association Standard Specification." Abraded, scraped and field welded areas shall be repaired with zinc-rich paint.

5. LAMINATED VENEER LUMBER (LVL):

A. Product Description:
   1. Structural composite wood member manufactured using wood veneers, with the grain directions of all plies oriented parallel to the length of the member. Plies of wood are bonded together with exterior exposure adhesives.
B. Referenced Standards:
   1. The manufacture of LVL products must comply with the following ASTM standards:
      a. ASTM D2559: Specification for adhesives for structural laminated wood products for use under exterior (wet-use) exposure conditions.
      b. ASTM D4761: Standard test methods for mechanical properties of lumber and wood-base structural material.
      c. ASTM D5456: Specifications for evaluation of structural composite lumber products.
      d. ASTM D5764: Standard test methods for evaluating dowel-bearing strength of wood and wood-based structural products.
C. Design and Strength:
   1. The mechanical properties for LVL must meet the following minimum design values:
      a. Bending stress(F_b) = 2600 psi
      b. Shear stress (F_v) = 285 psi
      c. Compression stress parallel to grain (F_{cll}) = 2510 psi
      d. Compression stress perpendicular to grain ($F_{c/perp}$) = 750 psi
      e. Tension stress(F_t) = 1,555 psi
      f. Modulus of elasticity (E) = 1.9×10^6 psi
      g. Shear modulus of elasticity (G) = 118,750 psi
   2. Mechanical fasteners values for withdrawal and shear must meet the minimum values for hem-fir as posted in the latest edition of the national design specification for wood construction.
D. Material and Tolerance:
   1. Veneers: Ultrasonically graded for consistency, to achieve the allowable unit stresses as listed above. Lamination thickness shall not exceed 0.25 inch thick.
   2. Adhesive: Waterproof, consistent with the allowable stresses listed above.
   3. Nominal width of members shall be 1.75", 3.5", 5.25" and 7". Widths specified on plans may not be substituted with multiple plies of lesser widths.
   4. Nominal depths of members shall be 5.5", 7.25", 9.25", 9.50", 11.25", 11.875", 14", 16", 18" and 20"LVL members must be identified by a stamp indicating the product type and grade, manufacturer's name, plant number, and an independent inspection agency's logo.
E. Delivery, Handling, Storage and Erection:
   1. Deliver LVL members with setting drawings and installation instructions, sufficiently well-detailed for proper erection.
   2. Store members off the ground on runners, bundled in an upright position, protected from the weather.
   3. Avoid including damage to the lumber. Replace all damaged pieces.
   4. Do not cut, notch, or otherwise modify any member except as shown on the structural drawings or erection drawings.
   5. Ensure that construction loads do not exceed the design carrying capacity of the members.

6. WOOD FRAMING / STRUCTURAL LUMBER:

A. Properties:
   1. Minimum properties of Southern Pine No.2 (MC <19%) per the 2005 national design specification. Timber columns shall be of No.1 Southern Pine.
   2. Oriented Strand Board: Advantech vip + sheathing, structural 1, exposure 1, exterior glue. For roof panel identification index 40/20-19/32 or 5/8 inch.
   3. PLYWOOD: C-D plugged exposure 1. Exterior glue for roof and wall panel identification index 40/20-19/32 or 5/8 inch (with plywood clips for roof).
B. Specifications:
   1. Unless specifically shown otherwise, design, fabrication and erection shall be governed by the latest revisions of:
   2. National design specification for wood construction.
   3. U.S. product standard PS-1.
C. Connections:
   1. Where connections are not specified on plan, provide connections that conform to table 2304.9.1 of the IBC.
   2. Fasteners for preservative treated and fire treated wood shall be of hot dipped galvanized steel, silicon bronze or copper. The coating weights for zinc coated fasteners shall be in accordance with ASTM A 153.
D. General:
   1. Provide one row of bridging for each 8 foot of span for joists.
   2. Studs and joists shall not be cut to install plumbing or wiring unless metal or wood side pieces are provided to strengthen the member.
   3. Load-bearing stud walls shall have solid bracing at mid-height.

STRUCTURAL SPECIAL INSPECTION NOTES

SPECIAL INSPECTION SCHEDULE - FABRICATORS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. VERIFY FABRICATION AND IMPLEMENTATION PROCEDURES			
A. STEEL CONSTRUCTION	Y	-	X
B. CONCRETE CONSTRUCTION (INCLUDING REBAR FABRICATION)	Y	-	X
C. WOOD CONSTRUCTION	N	-	X
D. COLD FORMED METAL CONSTRUCTION	Y	-	X
E. OTHER CONSTRUCTION	N	-	X

SPECIAL INSPECTION SCHEDULE - SOILS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	Y	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Y	-	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	Y	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Y	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY	Y	-	X

SPECIAL INSPECTION SCHEDULE - CAST-IN-PLACE FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE FOUNDATION CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE-CONCRETE FOR THE FOLLOWING FOUNDATION ELEMENTS:			
A. ISOLATED SPREAD CONCRETE FOOTINGS.	Y	-	-
B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS.	Y	-	-
C. CONCRETE FOUNDATION WALLS.	Y	-	-

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SHEET TITLE
STRUCTURAL GENERAL NOTES

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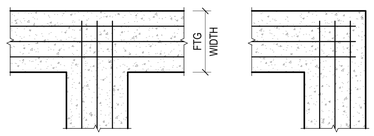
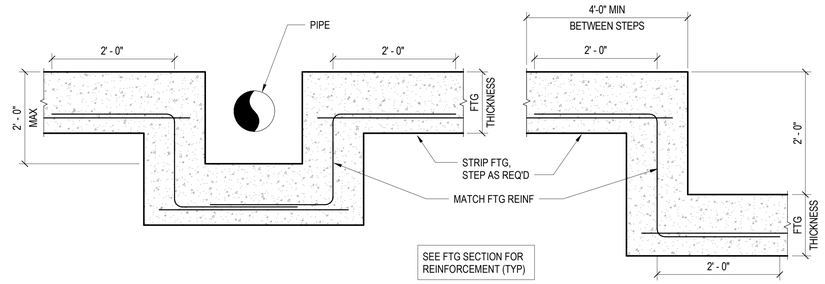
SHEET NO.
S001



SEE FTG SECTION FOR REINFORCEMENT (TYP)

INTERSECTION PLAN **CORNER PLAN**

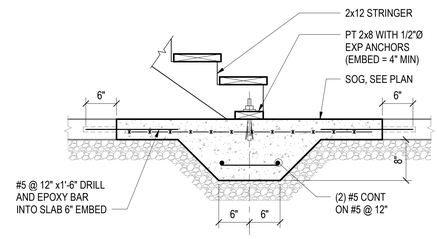


SEE FTG SECTION FOR REINFORCEMENT (TYP)

TYPICAL PLUMBING STEP **TYPICAL ELEVATION STEP**

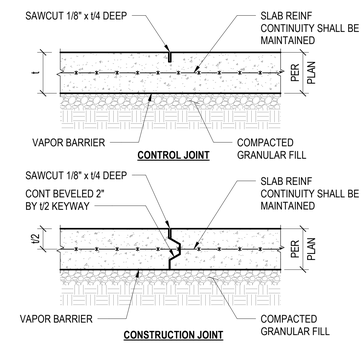
2 TYPICAL STRIP FOOTING PLAN DETAILS
N.T.S.

3 TYPICAL STRIP FOOTING ELEVATION DETAILS
N.T.S.



7 TYPICAL WOOD STAIR BASE DETAIL
N.T.S.

NOTES:
1. SAW-CUT CONTROL JOINTS TO BE CUT AS SOON AS SURFACE WILL NOT BE TORN, ABRADED, OR OTHERWISE DAMAGED BY CUTTING ACTION. (WITHIN 8 TO 10 HR OF BURNISHING)
2. SPACE CONTROL JOINTS AT 10'-0" MAX FOR INTERIOR SLABS UNO ON PLANS.
3. CONSTRUCTION JOINTS TO BE USED AT END OF EACH POUR.



8 TYPICAL SOG JOINT DETAILS
N.T.S.

COLUMN FOOTING SCHEDULE						
MARK	SIZE			REINFORCEMENT		REMARKS
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
F3.0	3' - 0"	3' - 0"	1' - 3"	(4) #5 EW	-	
F3.0A	3' - 0"	3' - 0"	1' - 3"	(4) #5 EW	(4) #5 EW	

WOOD WALL SCHEDULE			
MARK	SIZE	SPACING	REMARK
W1	2x6	16"	BRACED AT 1/3 HEIGHT

WOOD COLUMN SCHEDULE		
MARK	SIZE	MATERIAL
WC1	5 1/4 x 5 1/4	SOUTHERN YELLOW PINE #1

12 SCHEDULES
N.T.S.

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SHEET TITLE
TYPICAL DETAILS & SCHEDULES

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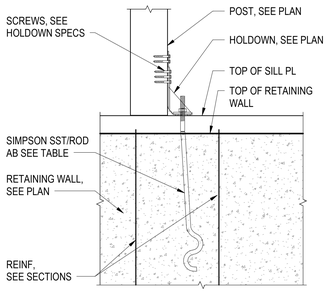
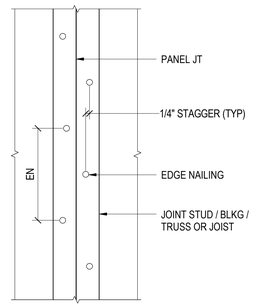
SHEET NO.
S002



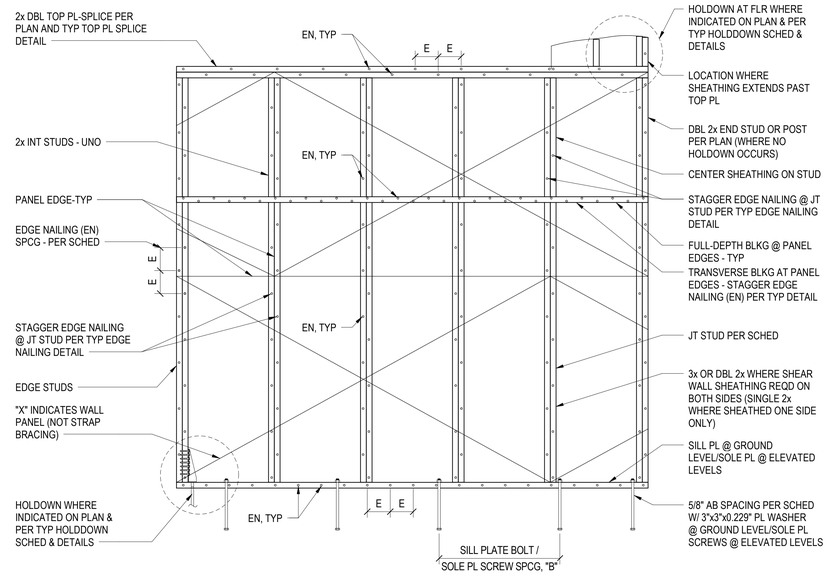
NOTES:
1. HOLDOWN ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED (ASTM A153). CONTRACTOR SHALL USE CAST-IN-PLACE ANCHORS PER TABLE. POST-INSTALLED OPTION IS NOT ALLOWED.
2. ALL FASTENERS INSTALLED IN FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIP GALVANIZED (ASTM A153) OR STAINLESS STEEL (TYPE 304 OR 316).
3. STEP DOWN FOOTING PER TYPICAL DETAIL WHERE REQUIRED TO ACHIEVE MINIMUM ANCHOR BOLT EMBEDMENT.
4. HOLDOWN ANCHOR BOLTS SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT USING ABS AND ANCHORMATE ANCHOR BOLT HOLDERS, OR EQUIVALENT.

* SEE SCHEDULE ON TYPICAL SHEAR WALL DETAIL FOR SHEATHING EDGE NAILING.
** WHERE HOLDOWN OCCURS ADJACENT TO A POST ON THE PLAN, USE THE LARGER OF THE INDICATED POST OR THE SCHEDULE END STUDS.

1 TYPICAL HOLDOWN SCHEDULE & DETAILS
N.T.S.



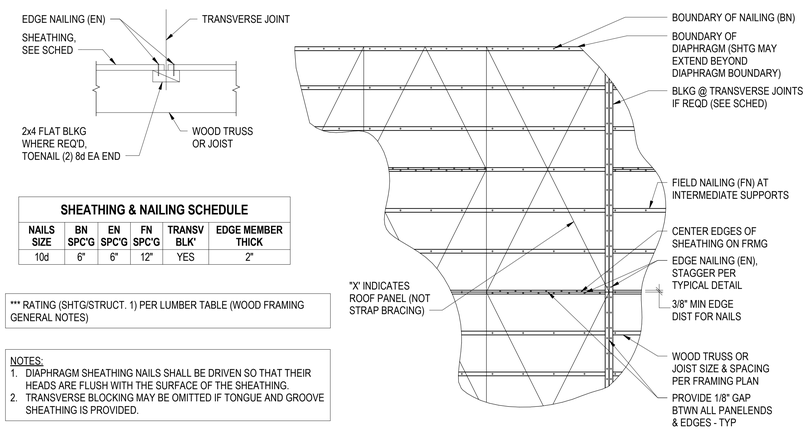
2 TYPICAL STAGGERED EDGE NAILING DETAIL
N.T.S.



NOTES:
1. FIELD NAILING (FN): 10d @ 12"oc.
2. ALL NAILS SHALL BE COMMON WIRE NAILS.
3. MINIMUM DIMENSION OF ANY SHEATHING SHEET EQUALS 16" OR STUD SPACING, WHICHEVER IS GREATER.
4. SOLE PLATES SHALL BE FASTENED WITH SDS25412 SCREWS (SDS25600 @ 3x SOLE PLATES) PER THE SCHEDULE ABOVE. FOR SPACING LESS THAN 8", PRE-DRILL HOLES 3/16"dia.
5. ALL SHEAR WALL SHEATHING PANEL EDGES SHALL BE FULLY BLOCKED WITH FULL DEPTH 2x OR 3x STUD BLOCKING - TYP - UNO.

* 3x WHERE WALL IS SHEATHED BOTH SIDES.
**DOUBLE 2x MAYBE USED IN LIEU OF 3x. FACE NAIL W/16d @ 12" STAGGERD FULL HEIGHT
***RATING (SHTG/STRUCT. 1) PER LUMBER TABLE (WOOD FRAMING GENERAL NOTES)

7 TYPICAL SHEAR WALL SHEATHING AND FASTENER
N.T.S.

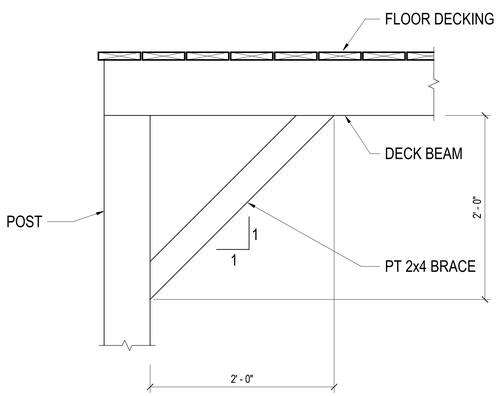


SHEATHING & NAILING SCHEDULE					
NAILS SIZE	BN SPC'G	EN SPC'G	FN SPC'G	TRANSV BLK'	EDGE MEMBER THICK
10d	6"	6"	12"	YES	2"

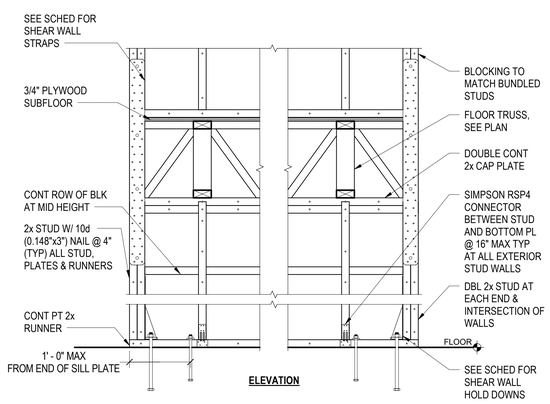
*** RATING (SHTG/STRUCT. 1) PER LUMBER TABLE (WOOD FRAMING GENERAL NOTES)

NOTES:
1. DIAPHRAGM SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEADS ARE FLUSH WITH THE SURFACE OF THE SHEATHING.
2. TRANSVERSE BLOCKING MAY BE OMITTED IF TONGUE AND GROOVE SHEATHING IS PROVIDED.

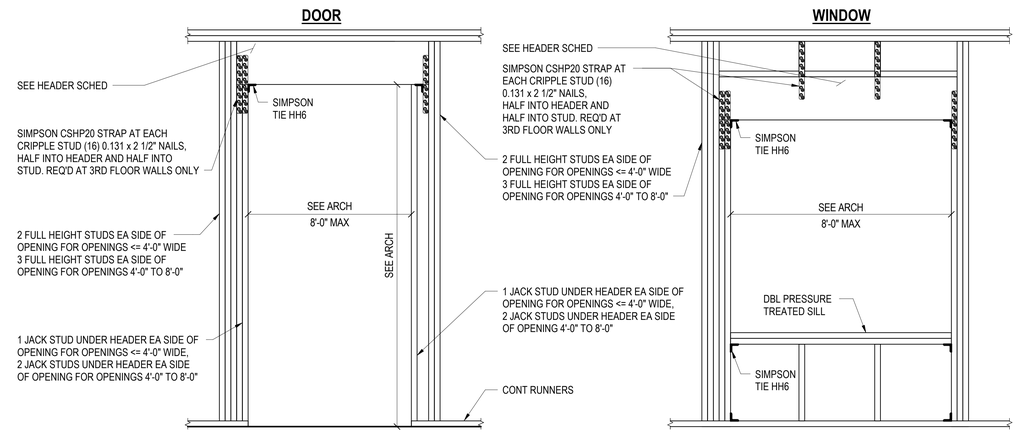
5 TYPICAL FLOOR & ROOF SHEATHING DETAIL
N.T.S.



9 TYPICAL WOOD KICKER DETAIL
N.T.S.



10 TYPICAL WOOD STUD WALL SECTION AND ELEVATION
N.T.S.



HEADER SCHEDULE		
SPAN	HEADER SIZE FOR 2x4 WALL	HEADER SIZE FOR 2x6 WALL
UPTO 4'-0"	3 1/2" x 9 1/2" LVL	(3) 2x10 W/ (2) 1/2" OSB FLITCH PL (UNO) GLUE & NAIL TOGETHER
4'-0" TO 8'-0"	3 1/2" x 14" LVL	5 1/4" x 14" LVL

11 TYPICAL PUNCHED OPENING ELEVATION
N.T.S.

RUDY TITLE
1926 10TH AVE NORTH
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SHEET TITLE
TYPICAL DETAILS & SCHEDULES

Project Status

DATE	01/26/2023
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PROJECT NO.	2207

SHEET NO.
S003

1 FIRST FLOOR BRACED WALL PLAN

3/16" = 1'-0"

SIMPSON STRAP SCHEDULE

MARK	MODEL NUMBER	CLEAR SPAN	FASTNERS	ALLOWABLE LOAD (LBS)	HOLD DOWN POST (MIN)
E	MSTC78	30"	(64) 0.148x3 1/4	4200	(2) 2x
F	MST72	30"	(48) 0.162x2 1/2	6505	3 1/2"x5 1/2"

HOLD DOWN SCHEDULE

MARK	TYPE	ANCHOR BOLTS (IN)	EMBED	HOLD DOWN POST (MIN)	WOOD FASTNERS	ALLOWABLE TENSION LOAD (LBS)
A	HTT5	5/8"	16"	(2) 2x	(26) 0.162x2 1/2	5090
B	HD9B	7/8"	20"	3 1/2"x5 1/2"	(3) 7/8 BOLTS	9920

NOTES:

1. INSTALL HOLD DOWNS AS PER MANUFACTURERS SPECIFICATION.
2. MULTIPLE STUDS USED SHALL BE NAILED TOGETHER.
3. SEE FOR OPENING IN BRACED WALLS.

WOOD SHEAR WALL SCHEDULE

SHEAR WALL TYPE	SHEATHING MATERIAL	MINIMUM NOMINAL PANEL THICKNESS (IN)	MINIMUM FASTNER PENETRATION FRAMING MEMBER OR BLOCKING	FASTENER TYPE & SIZE	PANEL EDGE FASTENER SPACING (IN)	PANEL INTERMEDIATE FASTENER SPACING (IN)	BOTTOM SILL (2) 10D NAILS (IN)	TOP PLATE (2) 10D NAILS (IN)	SILL TO CONCRETE BELOW	ASD PANEL CAPACITY PLF (WIND)	ASD PANEL CAPACITY PLF (SEISMIC)	HOLD DOWN MARK	STRAP MARK
WW1	WOOD STRUCTURAL PANELS-SHEATHING 1 SIDE	15/32	1.5	10d	6	6	4	4	5/8"Ø x 7" EMBED AB @ 16"	435	310	A	E
WW2	WOOD STRUCTURAL PANELS-SHEATHING 1 SIDE	15/32	1.5	10d	3	6	4	4	5/8"Ø x 7" EMBED AB @ 16"	840	600	B	F

RUDY TITLE

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SHEET TITLE

BRACED WALL PLAN

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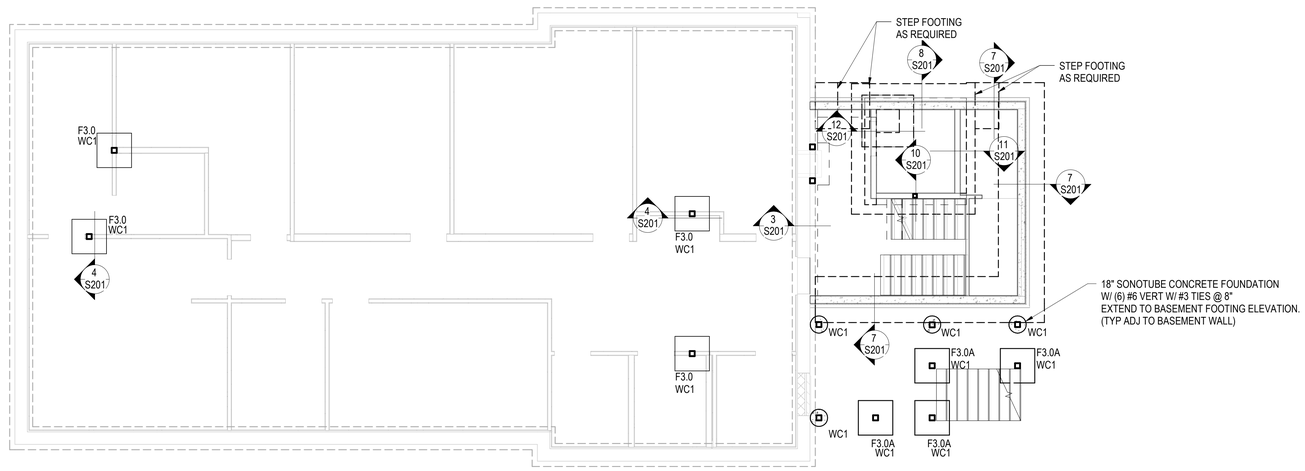
PROJECT NO.	2207

SHEET NO.

S010

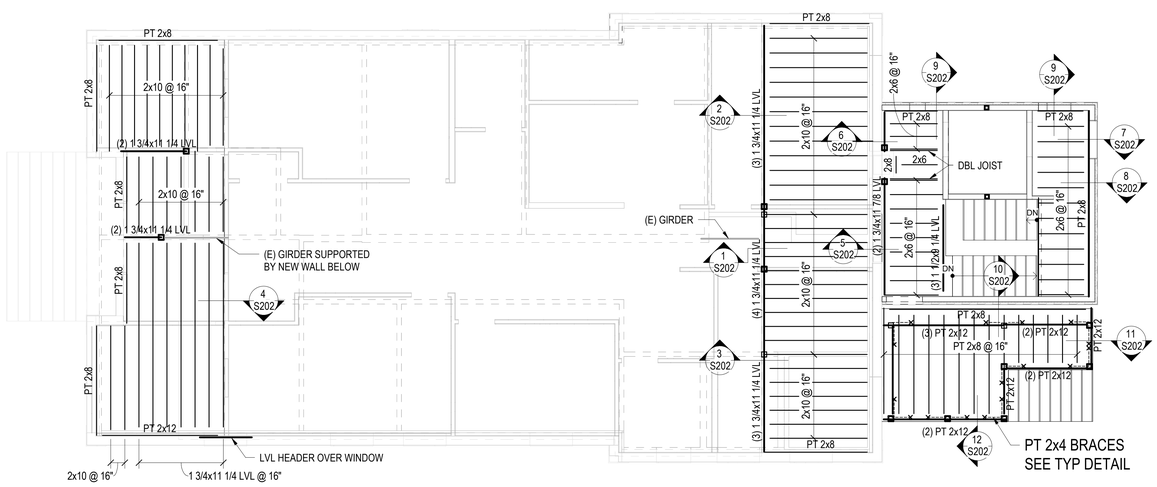


1 FOUNDATION & BASEMENT FLOOR FRAMING PLAN

3/16" = 1'-0"

FOUNDATION & BASEMENT FLOOR NOTES

1. FINISHED FLOOR ELEV = SEE ARCH.
2. 4" CONCRETE SLAB REINFORCED W/ WWF 4x4-W2.9xW2.9 ON 10 MIL (MIN) VAPOR BARRIER ON 4" SPECIFIED AGGREGATE FILL. CONFORM TO THE GEOTECHNICAL ENGINEER REQUIREMENTS FOR SUBGRADE PREP.
3. CONFORM TO THE GEOTECHNICAL ENGINEER REQUIREMENTS FOR SUBGRADE PREP.
4. REFER ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION.



2 FIRST FLOOR FRAMING PLAN

3/16" = 1'-0"

FIRST FLOOR FRAMING NOTES:

1. JOIST BRG = SEE ARCH.
2. PLACE SOLID BLOCKING ADJACENT TO ALL OPENINGS.
3. DESIGN LOADS
   - DEAD LOAD : 30 PSF
   - LIVE LOAD
     VESTIBULE, DECK & STAIRCASE : 100 PSF
     OFFICE & CONFERENCE : 50 PSF

RUDY TITLE

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SHEET TITLE

FOUNDATION AND BASEMENT AND FIRST FLOOR FRAMING PLAN

Project Status

DATE	01/26/2023
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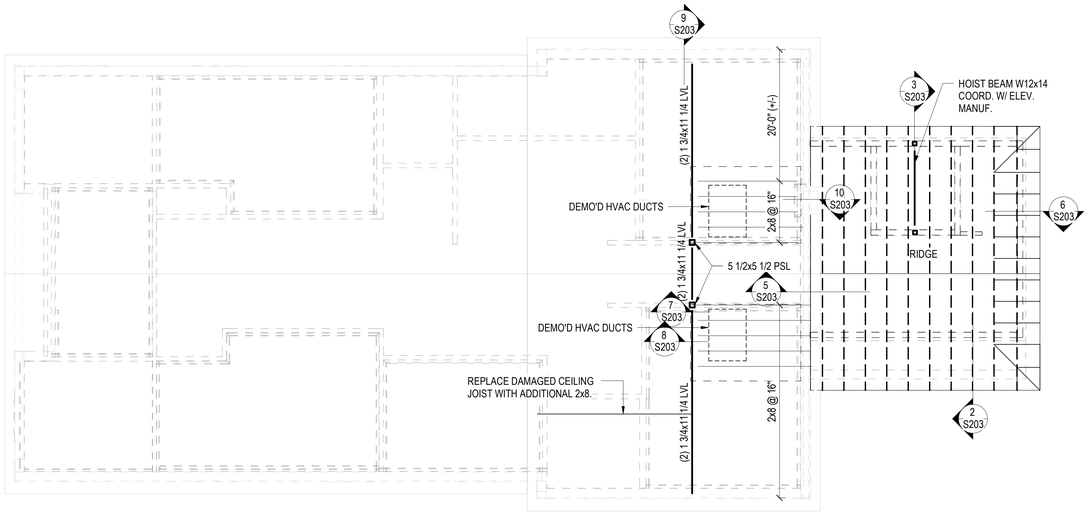
PROJECT NO.	2207

SHEET NO.

S100



1 ROOF FRAMING PLAN

3/16" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF ELEVATION = SEE ARCH.
2. ROOF TO BE 5/8" EXT APA RATED PLYWOOD SHEATHING OVER WOOD TRUSSES @ 24" IN STAGGERED PATTERN. REFER TO S004 FOR ROOF PLYWOOD NAILING PATTERN.
3. ROOF LOADS:
   - DEAD LOAD = 20 PSF
   - LIVE LOAD = 20 PSF
4. COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
5. ALL MEMBERS NOT SPECIFICALLY CALLED OUT SHALL BE SIZED BASED ON LIMITS OF TABLES FOR SPECIFIC MEMBERS IN THE IBC 2018.
6. CUTS, NOTCHES AND HOLES BORED IN TRUSSES, LAMINATED VENEER LUMBER, GLUE-LAMINATED MEMBERS OR I-JOISTS ARE NOT PERMITTED UNLESS THE EFFECTS OF SUCH ARE SPECIFICALLY ADDRESSED BY A REGISTERED DESIGN PROFESSIONAL.

RUDY TITLE

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SHEET TITLE

ROOF FRAMING PLAN

Project Status

DATE	01/26/2023
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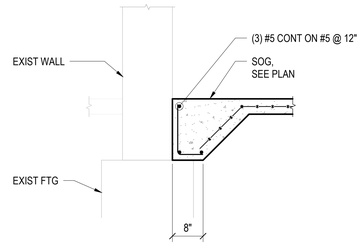
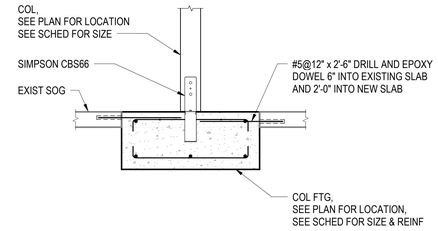
PROJECT NO.	2207

SHEET NO.

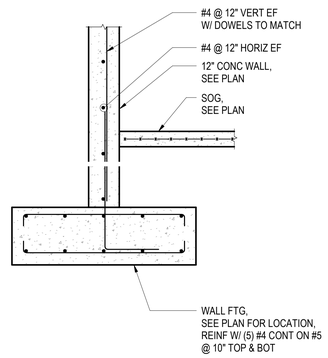
S200



3 FOUNDATION SECTION
3/4" = 1'-0"



4 FOUNDATION SECTION
3/4" = 1'-0"



7 FOUNDATION SECTION
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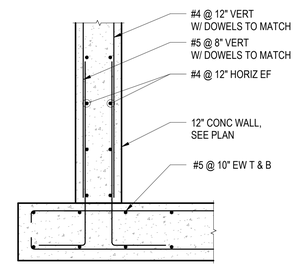
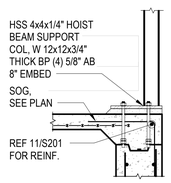
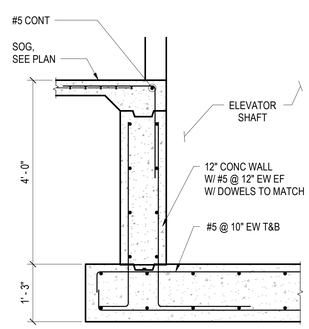


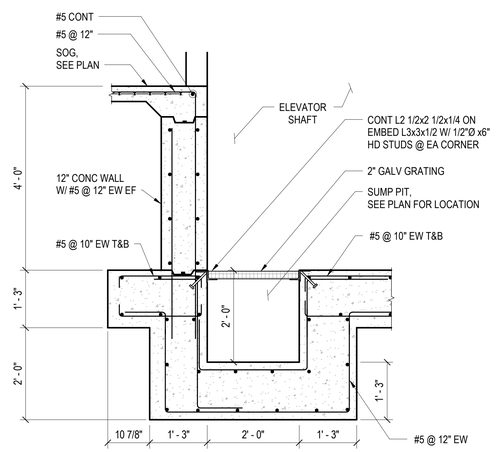
8 FOUNDATION SECTION
3/4" = 1'-0"



10 HOIST BEAM COL
3/4" = 1'-0"



11 FOUNDATION SECTION
3/4" = 1'-0"



12 FOUNDATION SECTION
3/4" = 1'-0"

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SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

Project Status

DATE	01/26/2023
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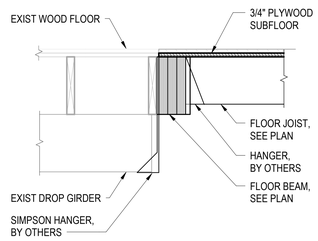
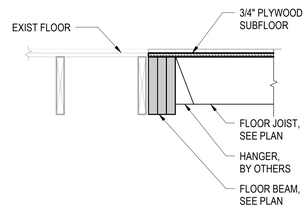
PROJECT NO.	2207

SHEET NO.
S201



1 FLOOR FRAMING SECTION
1" = 1'-0"



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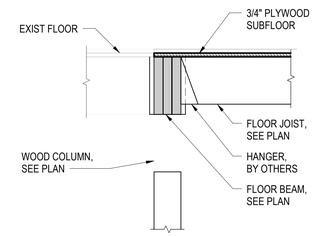

3 FLOOR FRAMING SECTION
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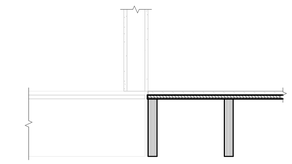

4 FLOOR FRAMING SECTION
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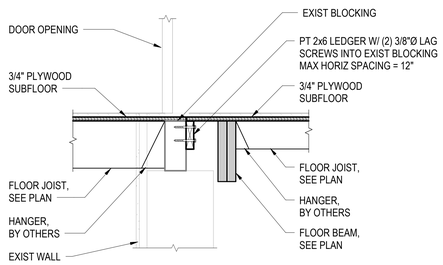
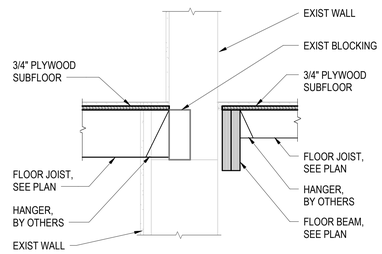
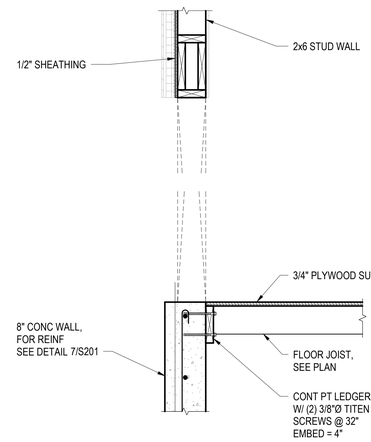


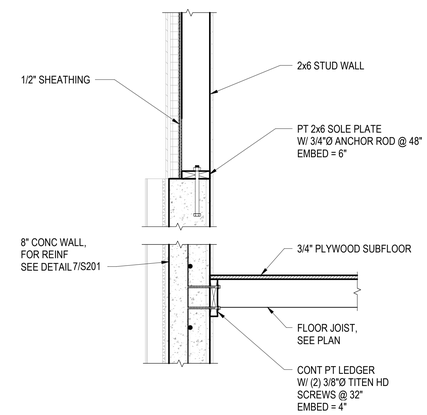
5 FLOOR FRAMING SECTION
1" = 1'-0"



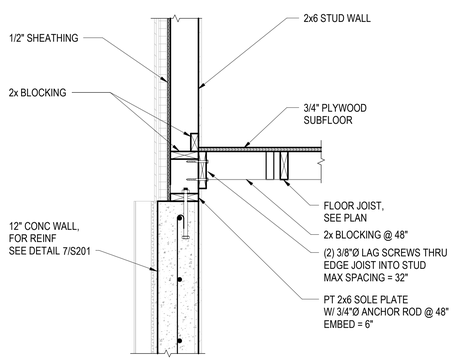
6 FLOOR FRAMING SECTION
1" = 1'-0"



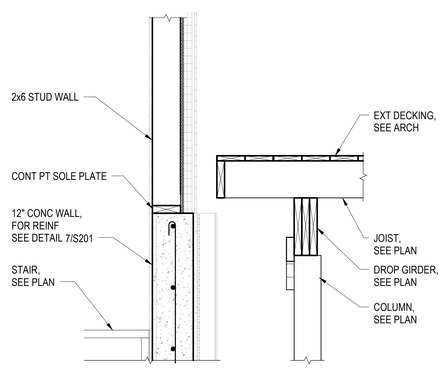
7 FLOOR FRAMING SECTION
1" = 1'-0"



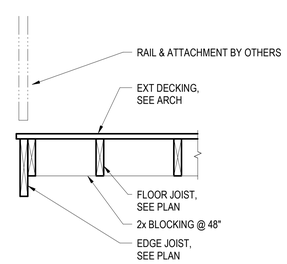
8 FLOOR FRAMING SECTION
1" = 1'-0"



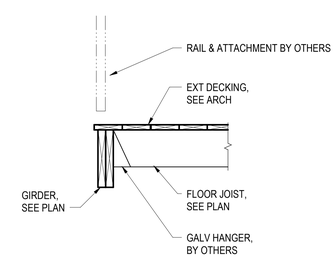
9 FLOOR FRAMING SECTION
1" = 1'-0"



10 FLOOR FRAMING SECTION
1" = 1'-0"



11 FLOOR FRAMING SECTION
1" = 1'-0"



12 FLOOR FRAMING SECTION
1" = 1'-0"

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256-2800

RUSSELL E. TYREE REGISTERED ENGINEER No. 115997 STATE OF TENNESSEE 01/26/2023

Consulting Engineers
630 Southgate Avenue - Suite C
Nashville, Tennessee 37203
(615) 726-2902 Phone
www.loganpatriengineering.com
LPE Job No.: 22043

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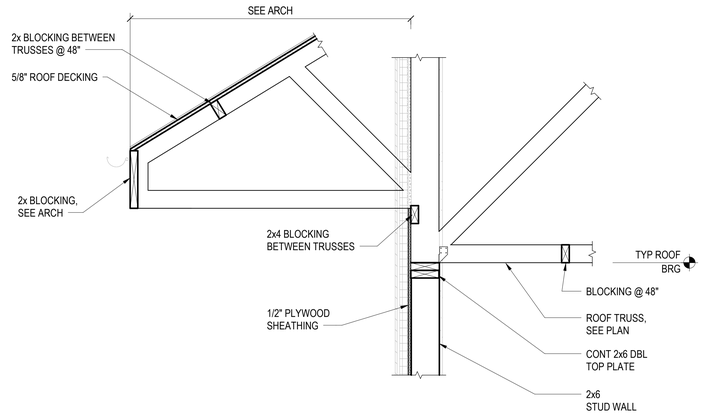
SHEET TITLE
FLOOR FRAMING SECTIONS

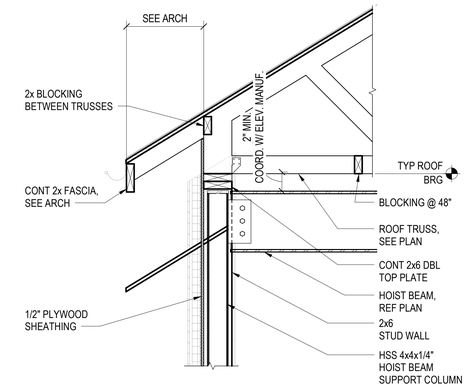
Project Status

DATE	01/26/2023
DRAWN BY	Author
PROJECT NO.	2207

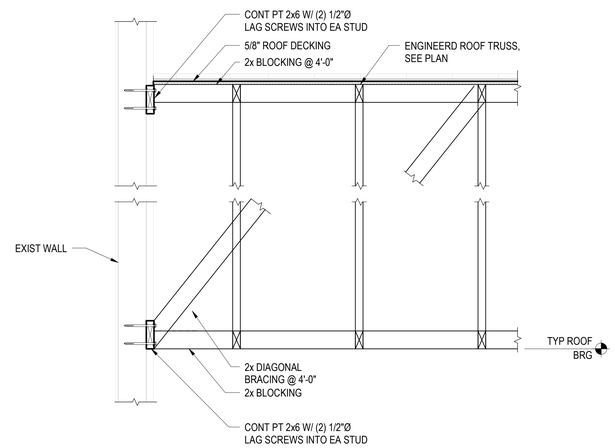
SHEET NO.
S202



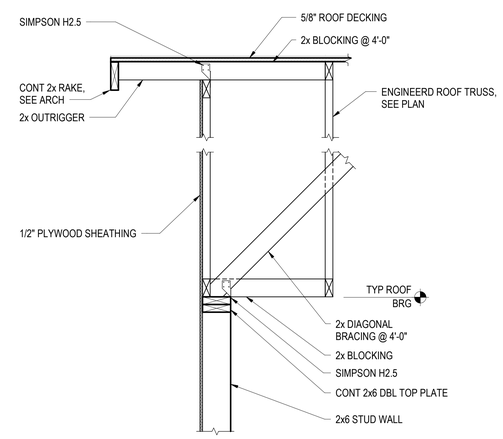
2 ROOF FRAMING SECTION
1" = 1'-0"



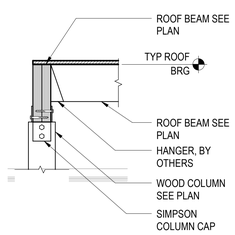
3 ROOF FRAMING SECTION
1" = 1'-0"



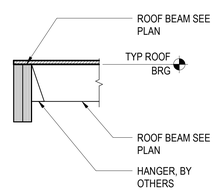
5 ROOF FRAMING SECTION
1" = 1'-0"



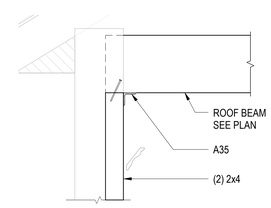
6 ROOF FRAMING SECTION
1" = 1'-0"



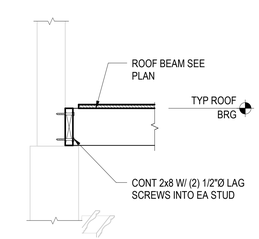
7 ROOF FRAMING PLAN
1" = 1'-0"



8 ROOF FRAMING PLAN
1" = 1'-0"



9 ROOF FRAMING PLAN
1" = 1'-0"



10 ROOF FRAMING PLAN
1" = 1'-0"

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256-2800

Consulting Engineers
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Nashville, Tennessee 37203
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LPE Job No.: 22043

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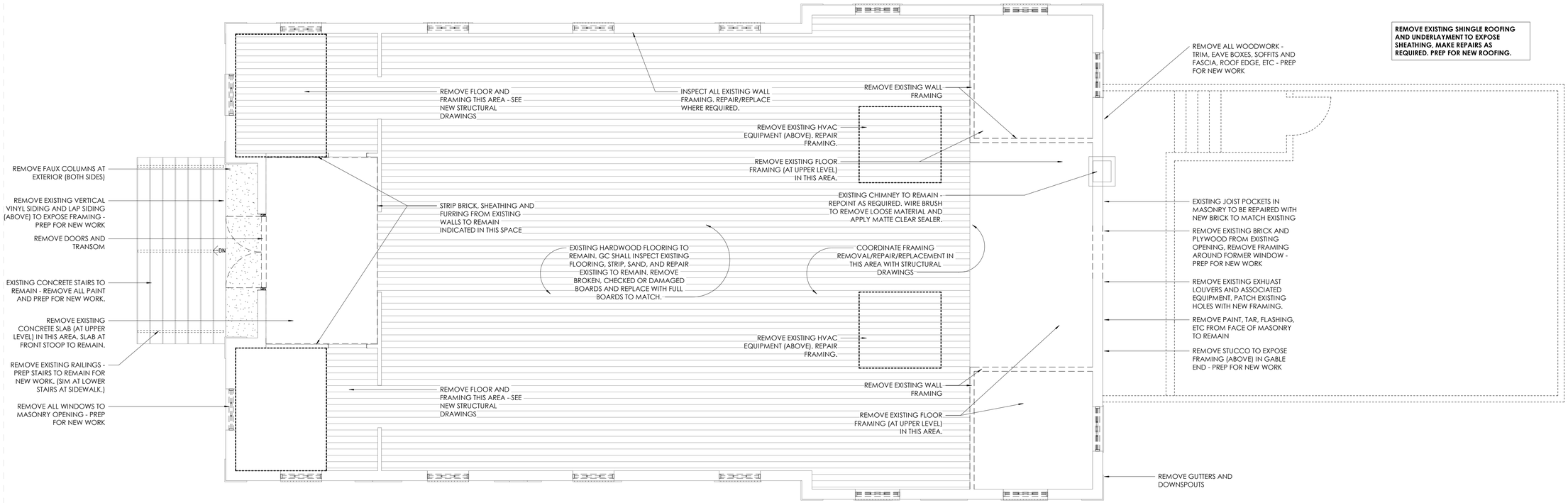
SHEET TITLE
ROOF FRAMING SECTIONS

Project Status

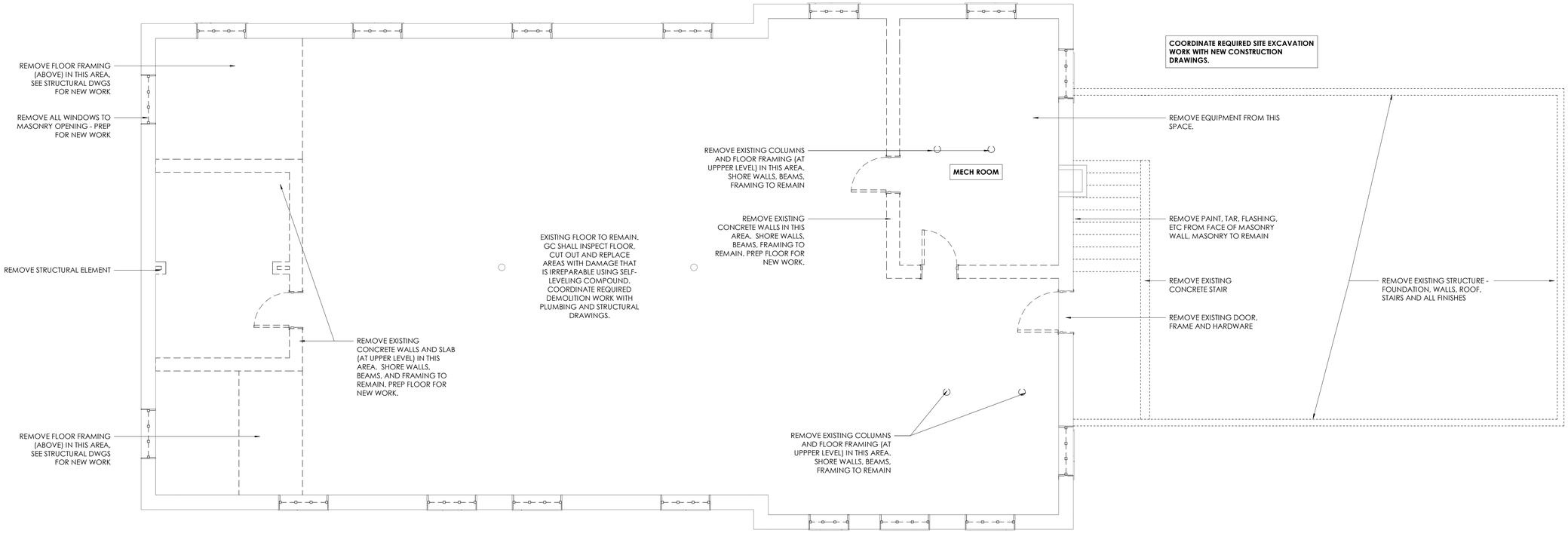
DATE	01/26/2023
DRAWN BY	Author
PROJECT NO.	2207

SHEET NO.
S203



1 UPPER FLOOR - EXISTING CONDITIONS

1/4" = 1'-0"



2 LOWER FLOOR - EXISTING CONDITIONS

1/4" = 1'-0"

RUDY TITLE

1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
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MARK BIXLER
REGISTERED ARCHITECT
NO. 102798
STATE OF TENNESSEE

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SHEET TITLE

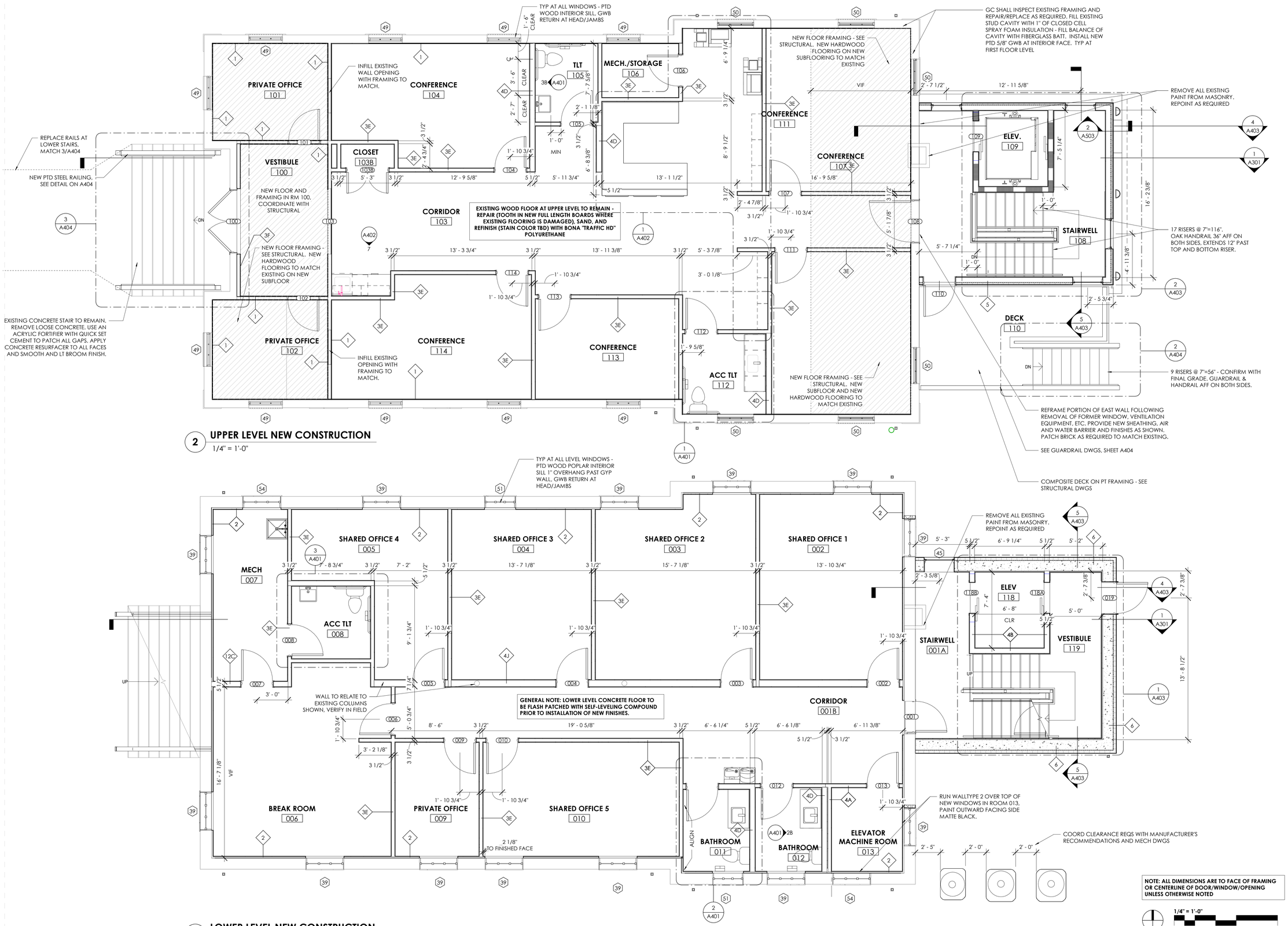
SELECTIVE DEMOLITION PLANS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	MAB
PROJECT NO.	2207

SHEET NO.

A001



2 UPPER LEVEL NEW CONSTRUCTION

1/4" = 1'-0"

1 LOWER LEVEL NEW CONSTRUCTION

1/4" = 1'-0"

NOTE: ALL DIMENSIONS ARE TO FACE OF FRAMING OR CENTERLINE OF DOOR/WINDOW/OPENING UNLESS OTHERWISE NOTED

1/4" = 1'-0"

0 2' 4' 6' 10'

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
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MARK BIXLER
REGISTERED ARCHITECT
ACCT
No. 102798
STATE OF TENNESSEE

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SHEET TITLE

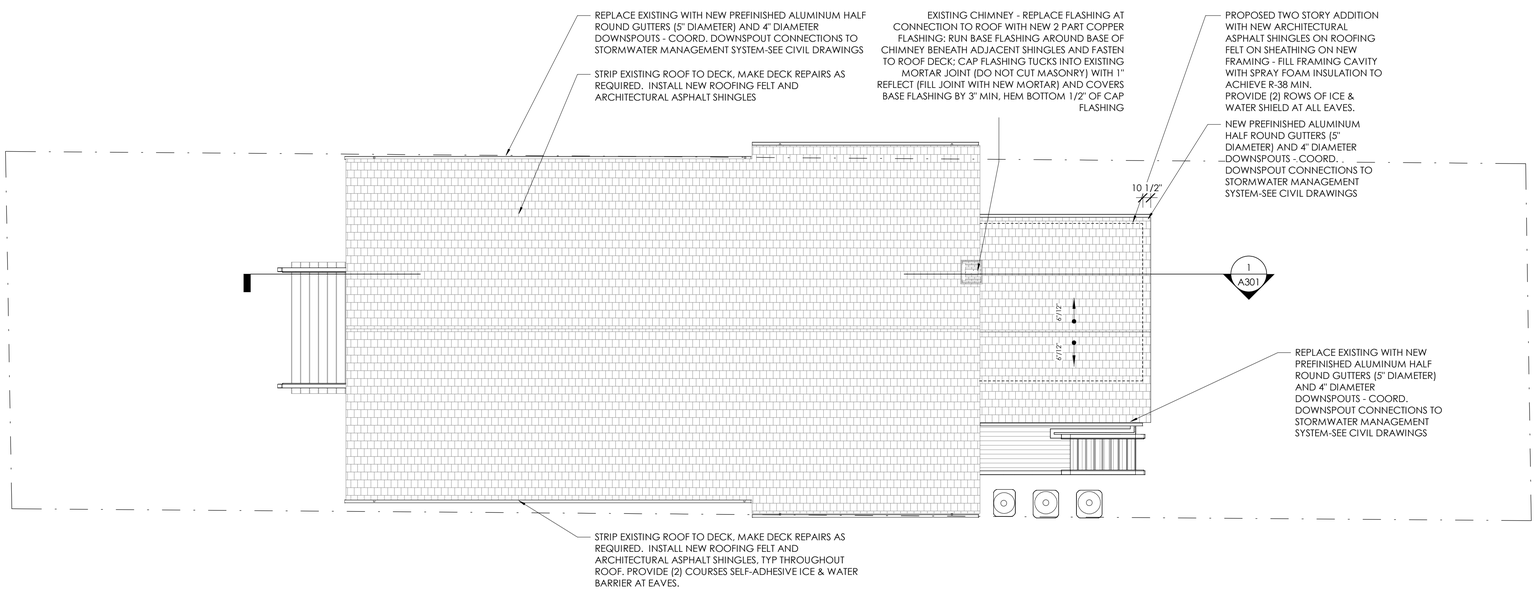
NEW CONSTRUCTION PLANS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	JS/MB
PROJECT NO.	2207

SHEET NO.

A100



1 **ROOF PLAN**
1/8" = 1'-0"

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
NO. 102798
STATE OF TENNESSEE
1.4.23

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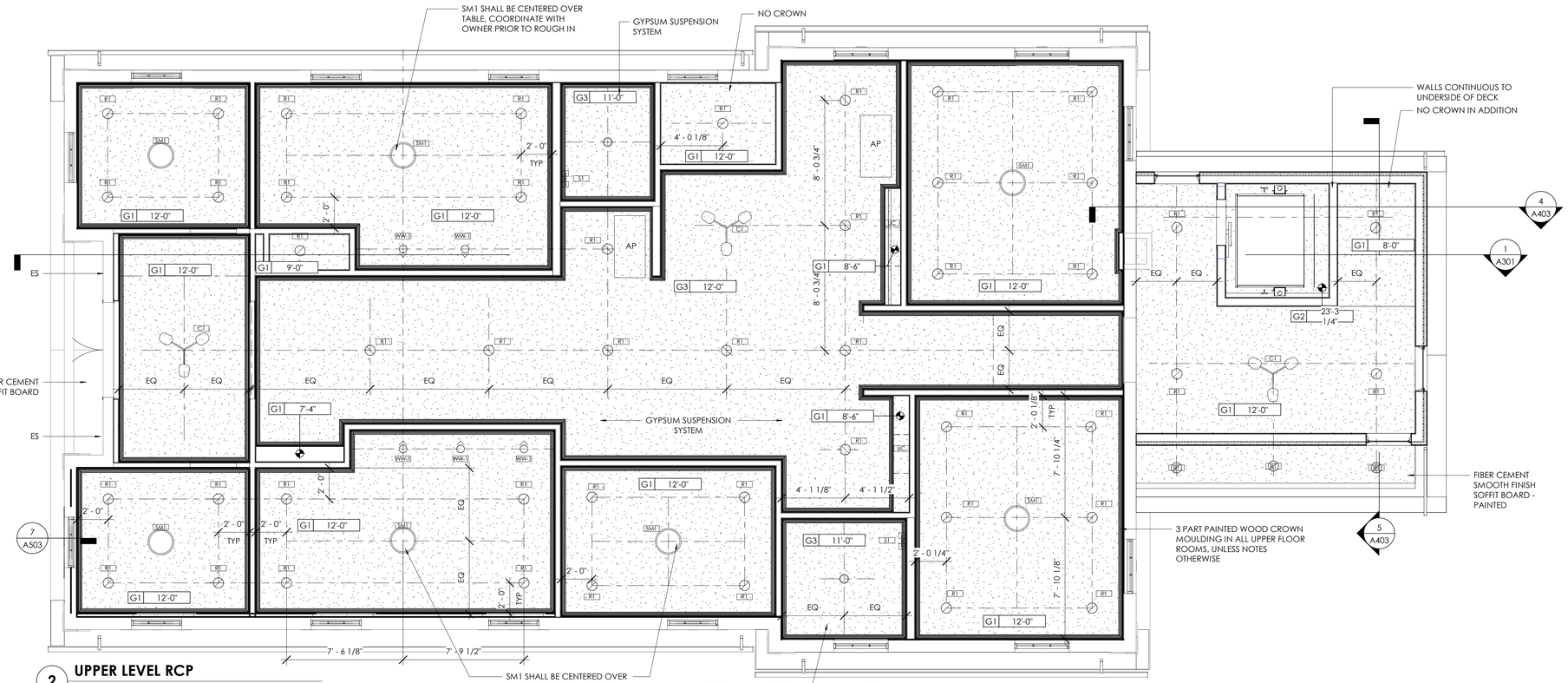
SHEET TITLE
ROOF PLAN

FOR CONSTRUCTION

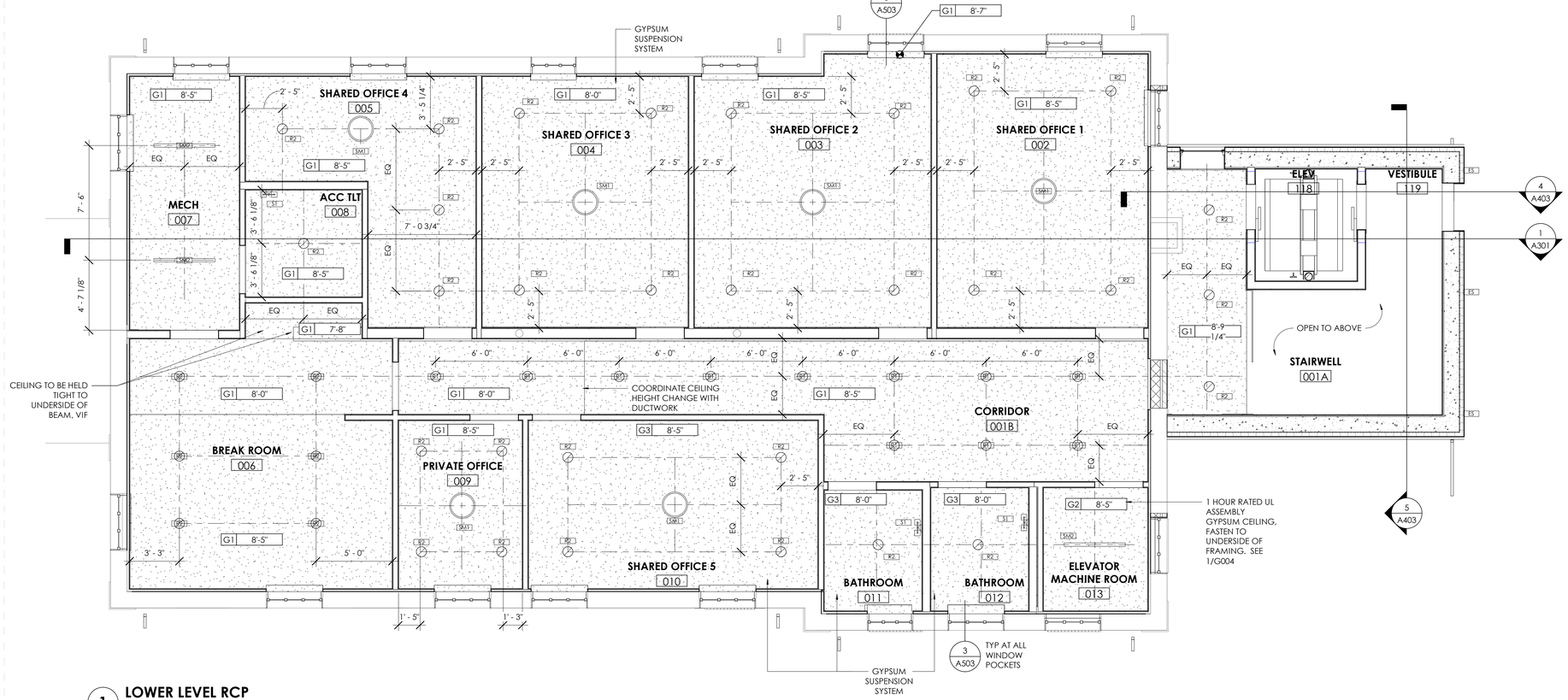
DATE	1.25.2023
DRAWN BY	JS
PROJECT NO.	2207

SHEET NO.
A101



2 UPPER LEVEL RCP

1/4" = 1'-0"



1 LOWER LEVEL RCP

1/4" = 1'-0"

RCP GENERAL NOTES

- PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD, EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
- LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
- FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).
- COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. NOTIFY ARCHITECT OF ANY CONFLICT BETWEEN TRADES PRIOR TO INSTALLATION.
- FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.
- ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).
- PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.
- WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT, PROVIDE 1" FURRING AT EXISTING CEILING JOISTS
- G2 1 HR RATED GYPSUM BOARD CEILING 2 LAYERS OF 5/8" TYPE X GYP BOARD, STAGGERED. UL DESIGN #L501
- G3 GYPSUM BOARD SUSPENDED CEILING
- RECESSED CAN LIGHT
- WALL WASHER
- SURFACE MOUNTED WALL LIGHT
- SURFACE MOUNTED CEILING FIXTURE OR PENDANT
- LINEAR COVE LIGHT
- XX XX'-XX" — CEILING TAG WITH HEIGHT
- AP- MECHANICAL ACCESS PANEL. COORDINATE ACCESS PANELS FOR HVAC EQUIPMENT WITH MECH. DRAWINGS. PANELS TO BE NYSTROM DRYWALL ACCESS DOOR INLAY WITH MUD-IN FLANGE. DETACHABLE AND TO BE SIZED TO ALLOW REMOVAL OF HVAC EQUIPMENT-TYP.

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. (NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.) CONTRACTOR SHALL INSTALL ABOVE CEILING EQUIPMENT, PIPE AND DUCT TO ALLOW LIGHT FIXTURES TO BE INSTALLED AS SHOWN. IF CONFLICTS ARISE, THE CONTRACTOR SHALL PROPOSE A SOLUTION TO THE ARCHITECT FOR REVIEW.

LIGHT FIXTURE SCHEDULE	
TYPE MARK	COMMENTS
C1	<varies>
ES	EXTERIOR SCONCE
R1	RECESSED
R2	RECESSED
S1	RESTROOM SCONCE
SM1	SURFACE MOUNT DECORATIVE OR PENDANT
SM2	SURFACE MOUNT LINEAR
UC	UNDERCABINET LIGHTING
WW-1	RECESSED, WALL WASH

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER REGISTERED ARCHITECT NO. 102798 STATE OF TENNESSEE 4.12.23

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SHEET TITLE

REFLECTED CEILING PLANS

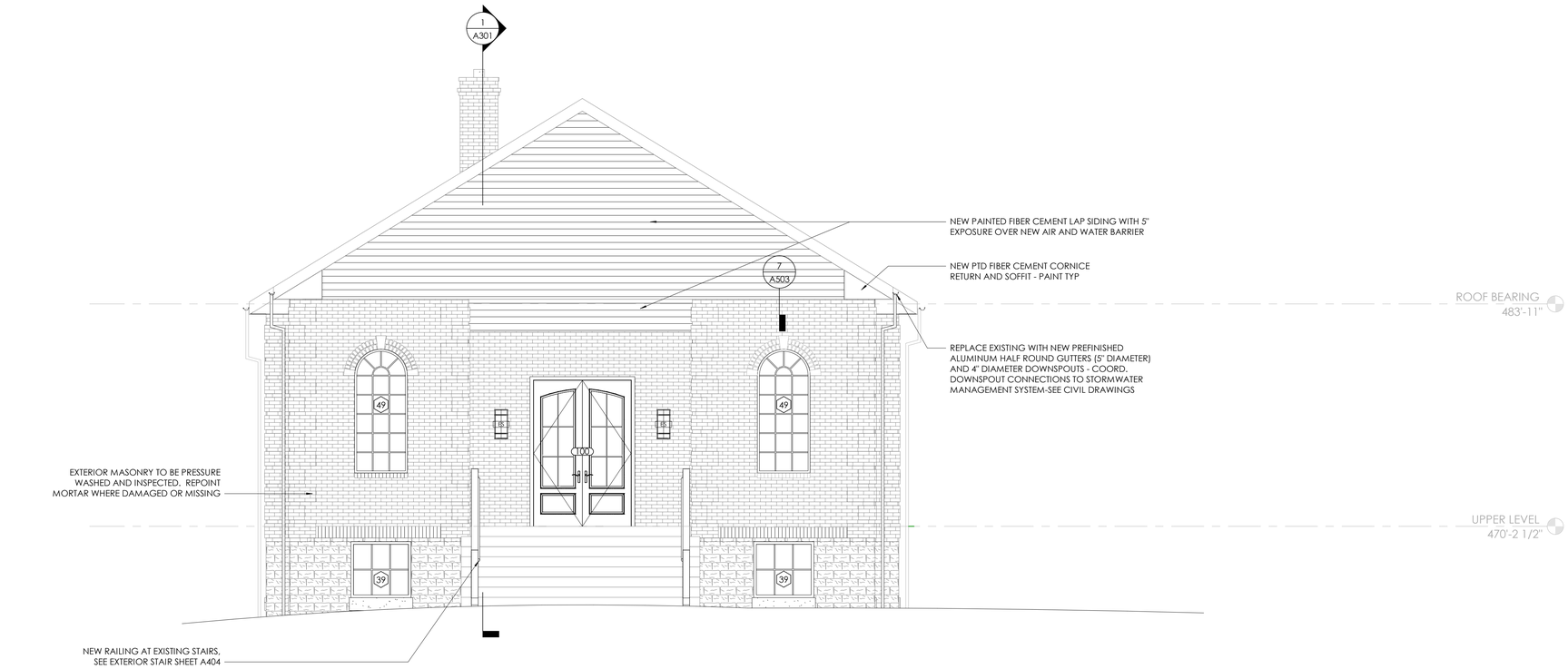
FOR CONSTRUCTION

DATE 1.25.2023
DRAWN BY JS
PROJECT NO. 2207

SHEET NO.

A110

1/4" = 1'-0"
0 2' 4' 6' 10'



2 **EAST**
1/4" = 1'-0"

1 **NORTH**
1/4" = 1'-0"

1/4" = 1'-0"
0 2' 4' 6' 10'

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
AGC
NO. 102798
STATE OF TENNESSEE
4.12.23

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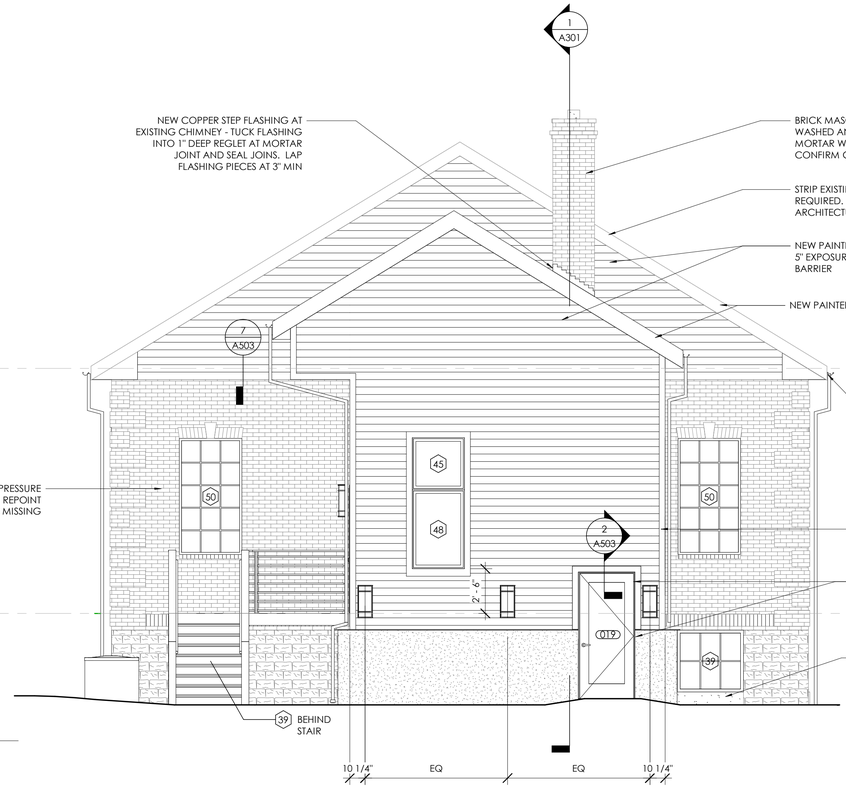
SHEET TITLE
EXTERIOR ELEVATIONS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	SMITH
PROJECT NO.	2207

SHEET NO.
A201



2 WEST
1/4" = 1'-0"

1 SOUTH
1/4" = 1'-0"

1/4" = 1'-0"
0 2' 4' 6' 10'

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
NO. 102798
STATE OF TENNESSEE
1.25.23

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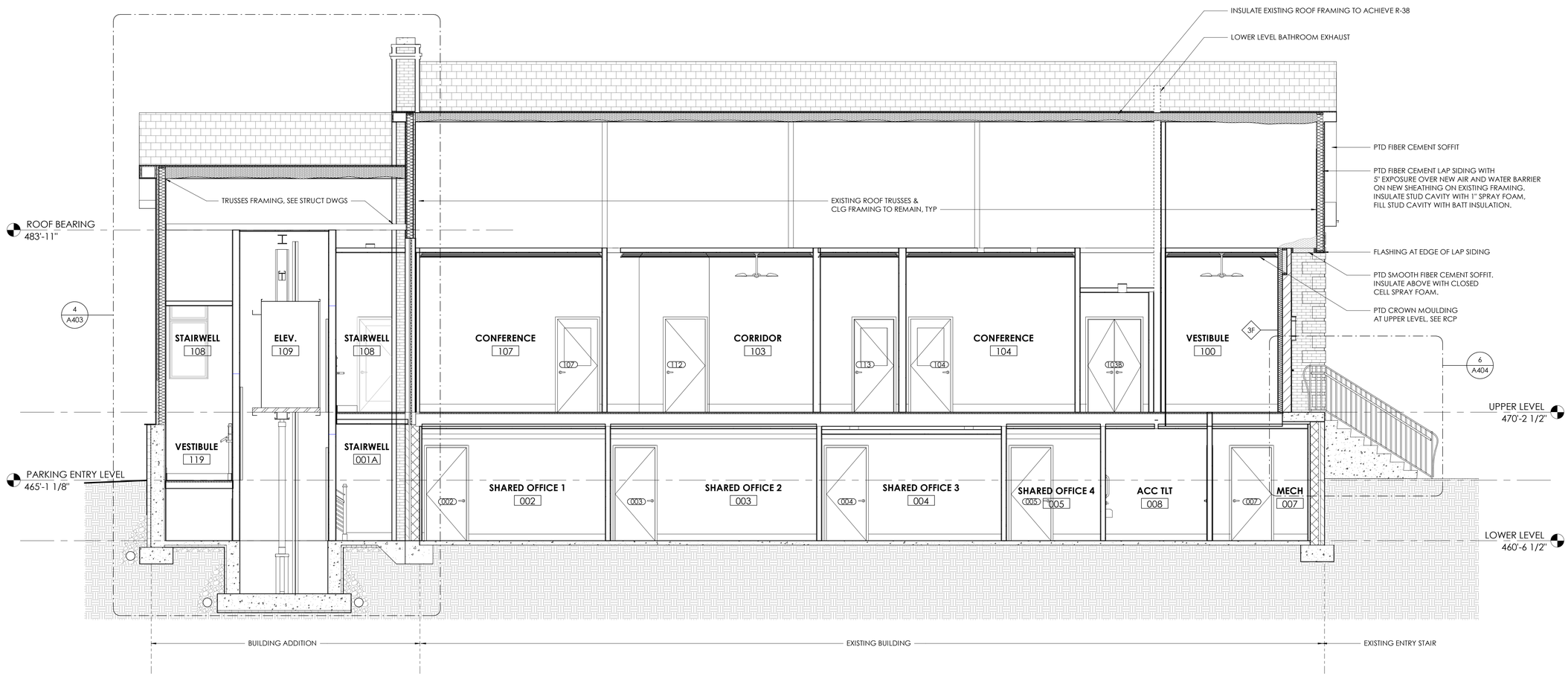
SHEET TITLE
EXTERIOR ELEVATIONS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	SMITH
PROJECT NO.	2207

SHEET NO.
A202



1 **BUILDING SECTION**
1/4" = 1'-0"

RUDY TITLE

1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS

516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

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SHEET TITLE

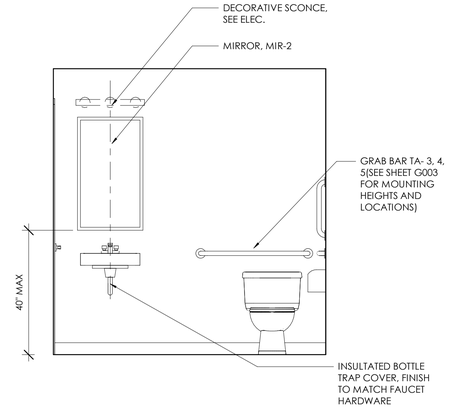
BUILDING SECTIONS

FOR CONSTRUCTION

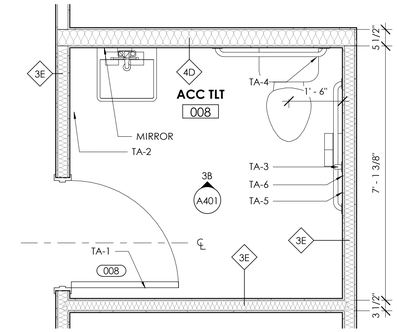
DATE	1.25.2023
DRAWN BY	LS
PROJECT NO.	2207

SHEET NO.

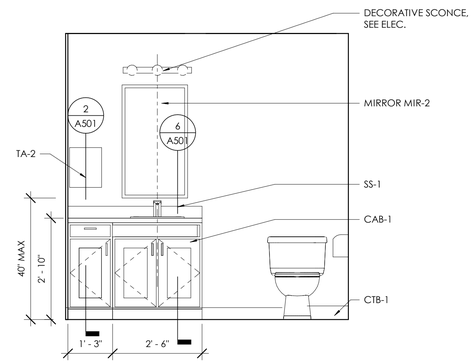
A301



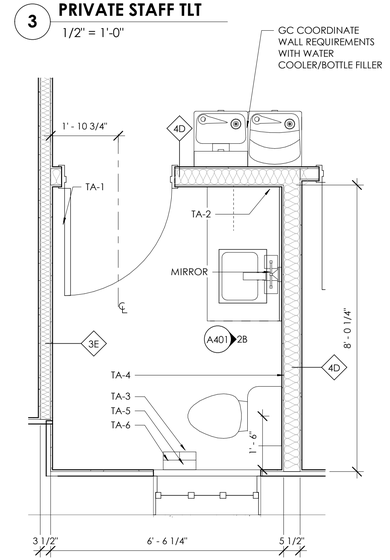
3B PRIVATE STAFF TLT
1/2" = 1'-0"



3 PRIVATE STAFF TLT
1/2" = 1'-0"

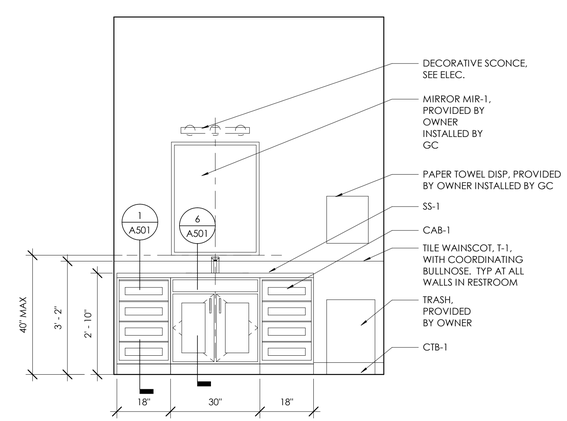


2B STAFF TLT
1/2" = 1'-0"



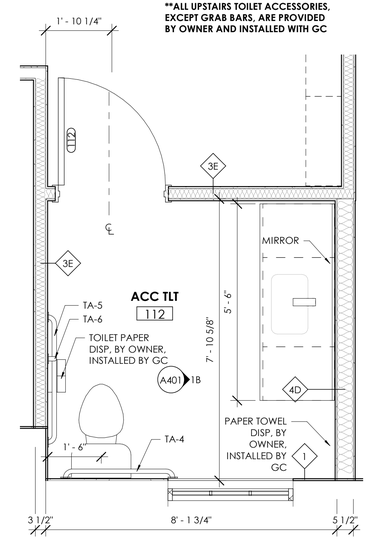
2 STAFF TLT
1/2" = 1'-0"

**ALL UPSTAIRS TOILET ACCESSORIES, EXCEPT GRAB BARS, ARE PROVIDED BY OWNER AND INSTALLED WITH GC



1B ACC TLT
1/2" = 1'-0"

**ALL UPSTAIRS TOILET ACCESSORIES, EXCEPT GRAB BARS, ARE PROVIDED BY OWNER AND INSTALLED WITH GC



1 ACC TLT - FIRST FLOOR
1/2" = 1'-0"

1/2" 1'-0"
0 1' 2' 3' 5'

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
AGE
NO. 102798
STATE OF TENNESSEE
4.12.23

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SHEET TITLE

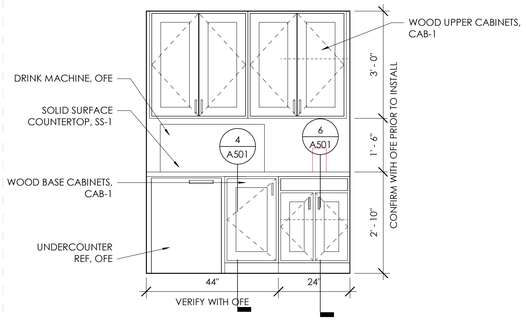
BATHROOM - ENLARGED PLANS & ELEVATIONS

FOR CONSTRUCTION

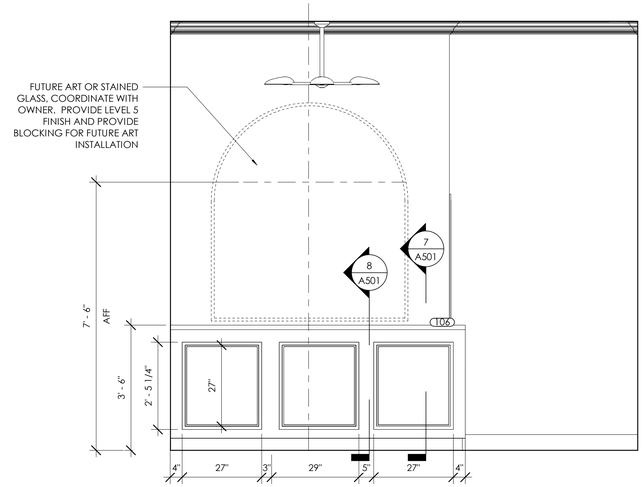
DATE	1.25.2023
DRAWN BY	JS
PROJECT NO.	2207

SHEET NO.

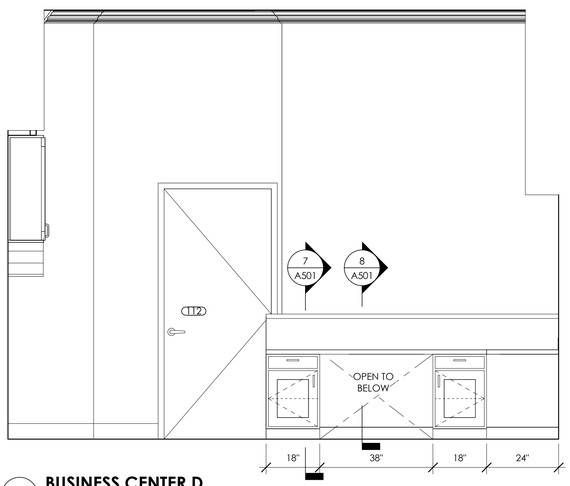
A401



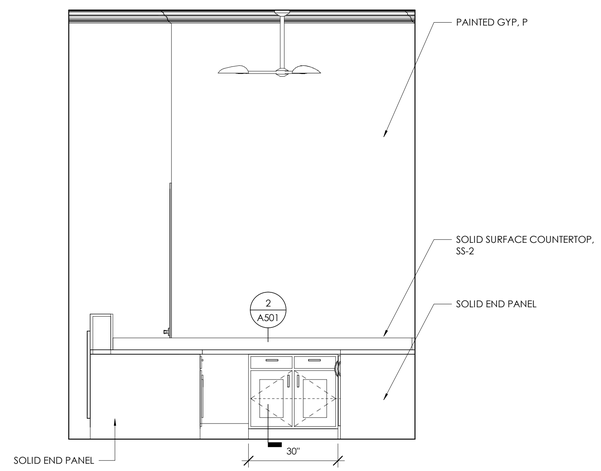
7 **REFRESHMENT**
1/2" = 1'-0"



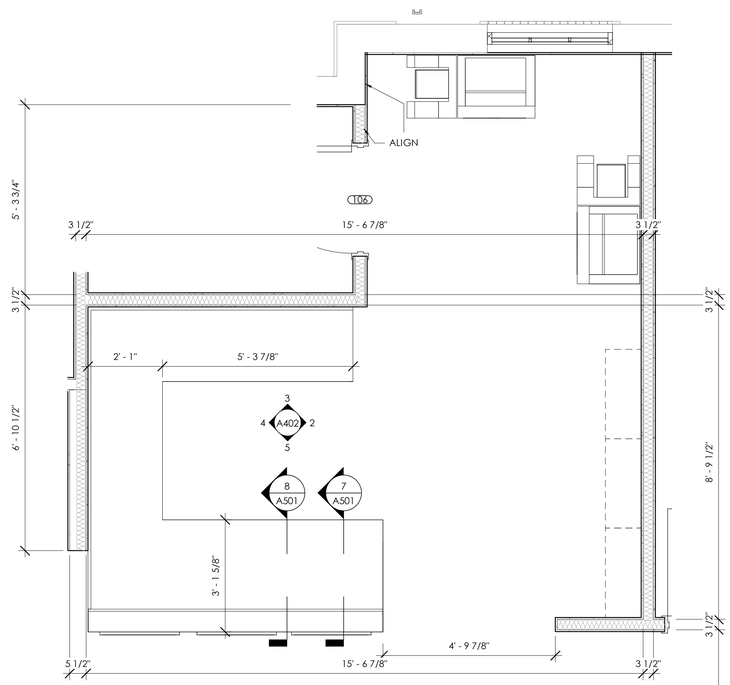
6 **BUSINESS CENTER E**
1/2" = 1'-0"



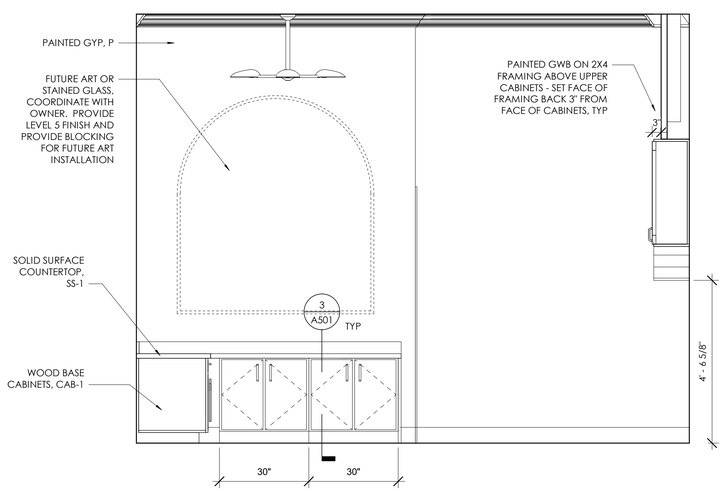
5 **BUSINESS CENTER D**
1/2" = 1'-0"



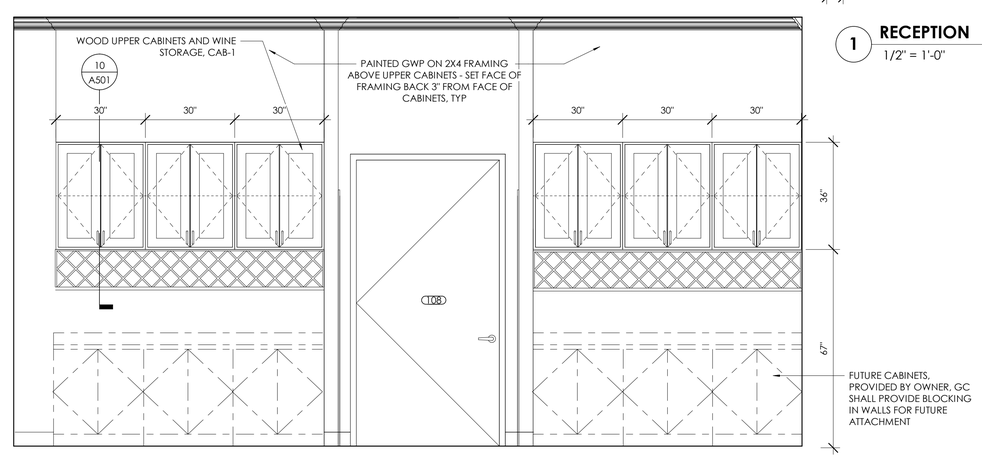
4 **BUSINESS CENTER C**
1/2" = 1'-0"



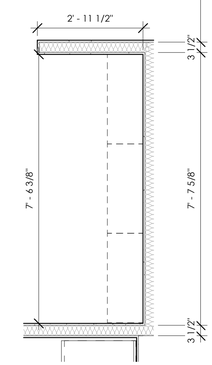
1 **RECEPTION**
1/2" = 1'-0"
6 A402



3 **BUSINESS CENTER B**
1/2" = 1'-0"



2 **BUSINESS CENTER A**
1/2" = 1'-0"



1/2" 1'-0"
0 1' 2' 3' 5'

RUDY TITLE

1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS

516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
NO. 102798
STATE OF TENNESSEE
1.25.23

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SHEET TITLE

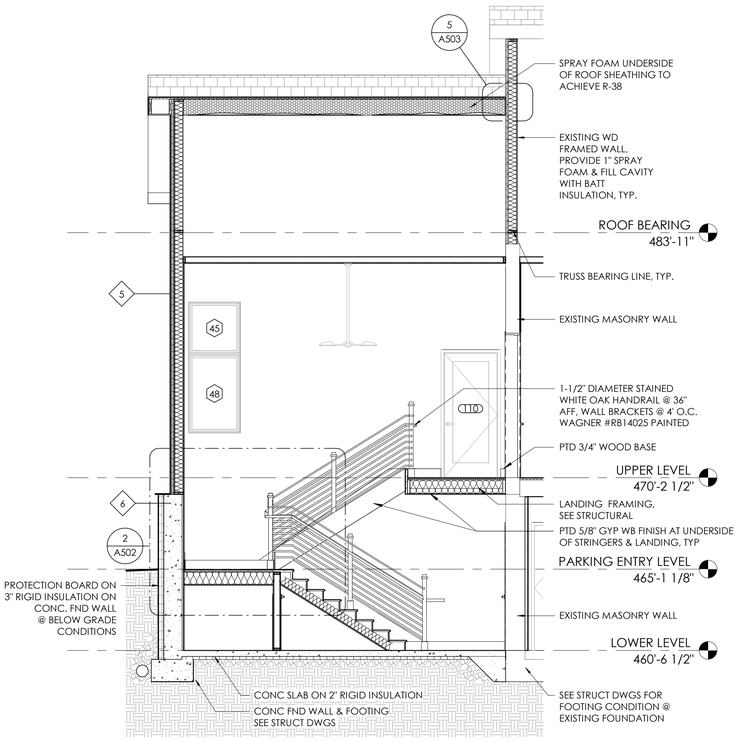
CASEWORK - ENLARGED PLANS & ELEVATIONS

FOR CONSTRUCTION

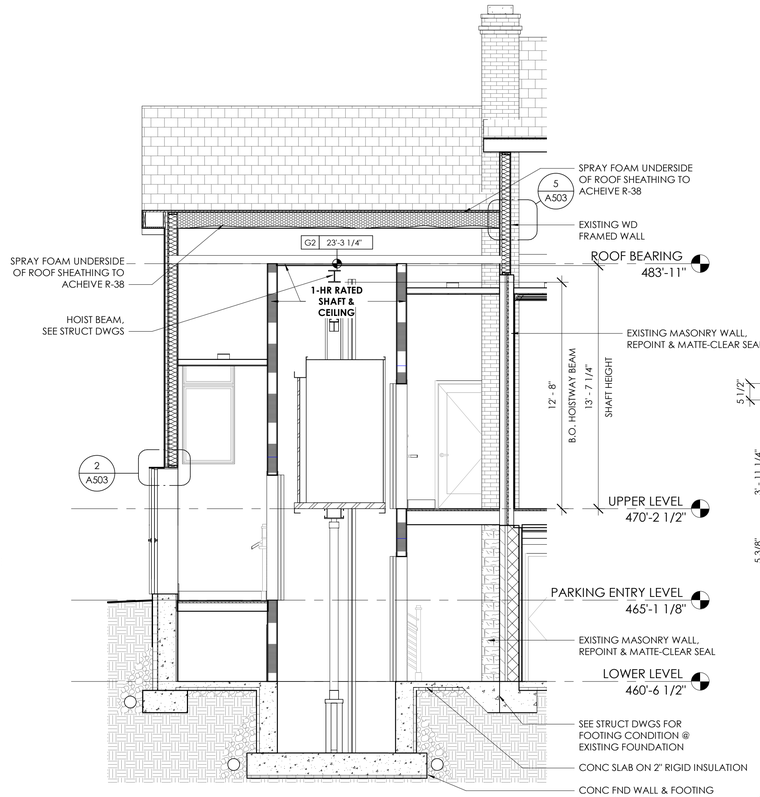
DATE	1.25.2023
DRAWN BY	JS
PROJECT NO.	2207

SHEET NO.

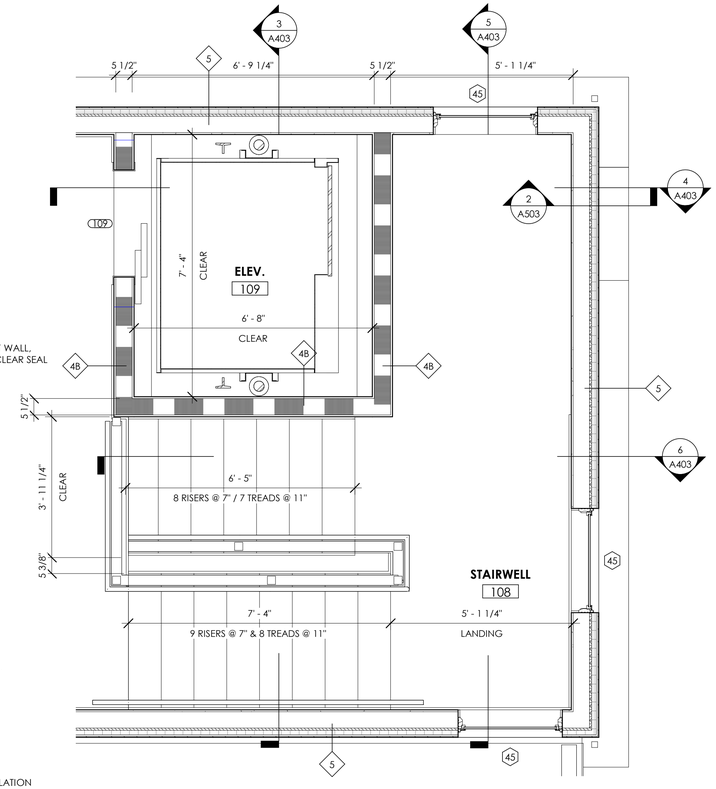
A402



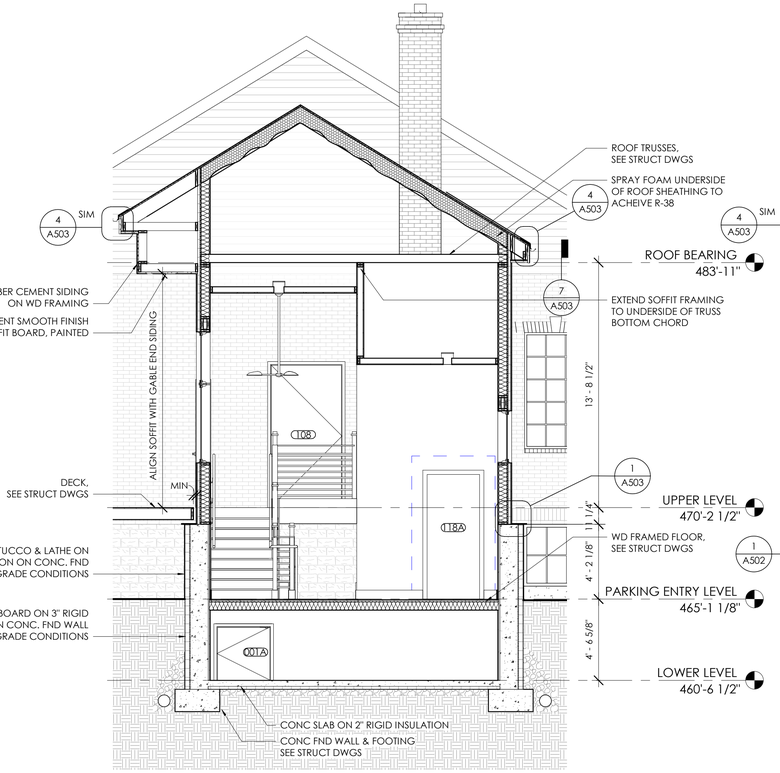
6 SECTION @ STAIR 2
1/4" = 1'-0"



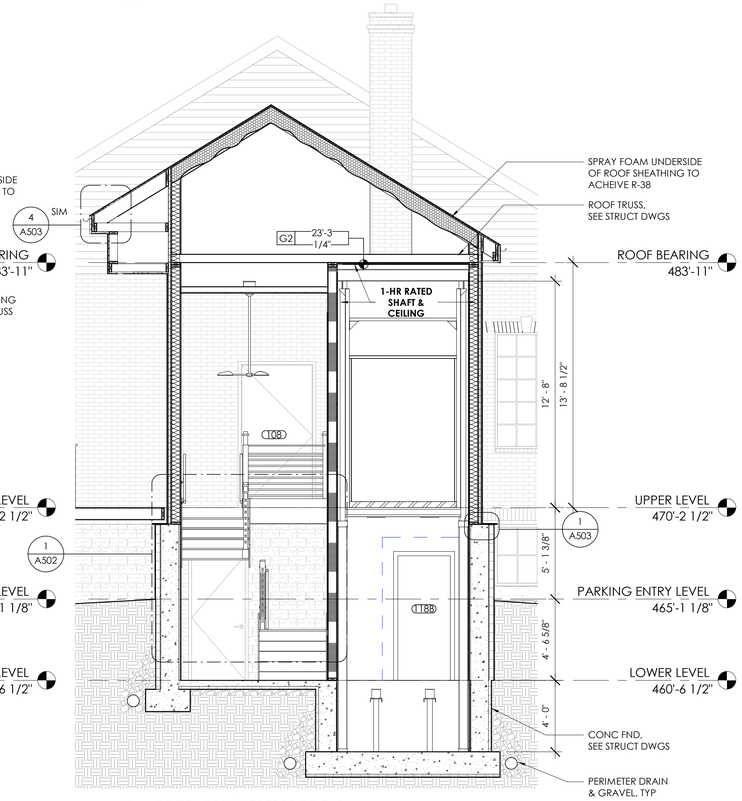
4 SECTION @ ELEVATOR 2
1/4" = 1'-0"



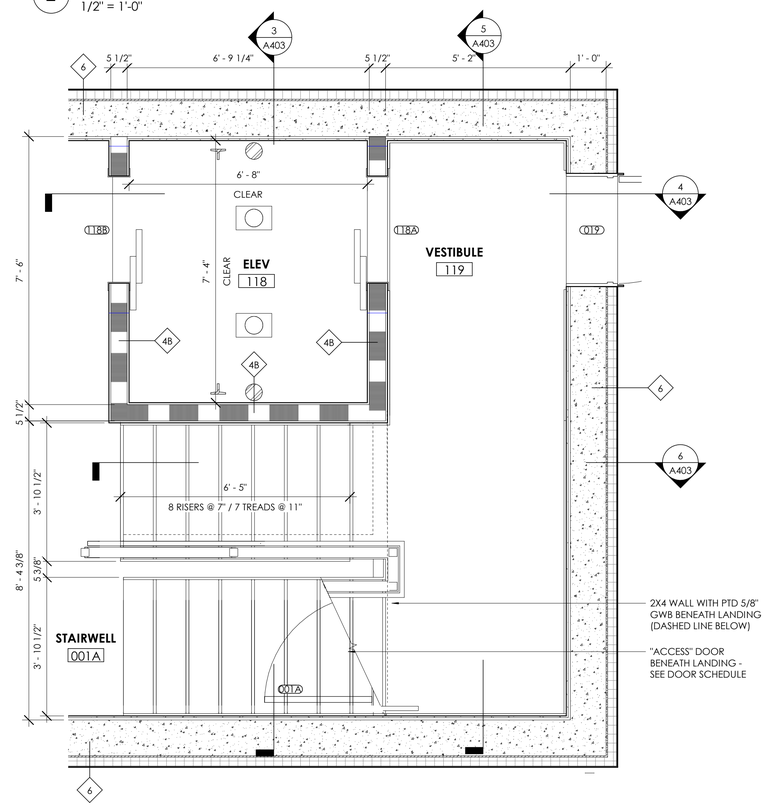
2 FIRST FLOOR PLAN - STAIR & ELEVATOR
1/2" = 1'-0"



5 SECTION @ STAIR 1
1/4" = 1'-0"



3 SECTION @ ELEVATOR 1
1/4" = 1'-0"



1 BASEMENT PLAN - STAIR & ELEVATOR
1/2" = 1'-0"

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER REGISTERED ARCHITECT NO. 102798 STATE OF TENNESSEE 4.12.23

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SHEET TITLE

STAIR & ELEVATOR ADDITION - ENLARGED PLANS AND SECTIONS

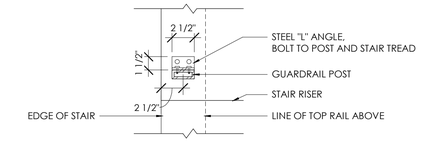
FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	LS
PROJECT NO.	2207

SHEET NO.

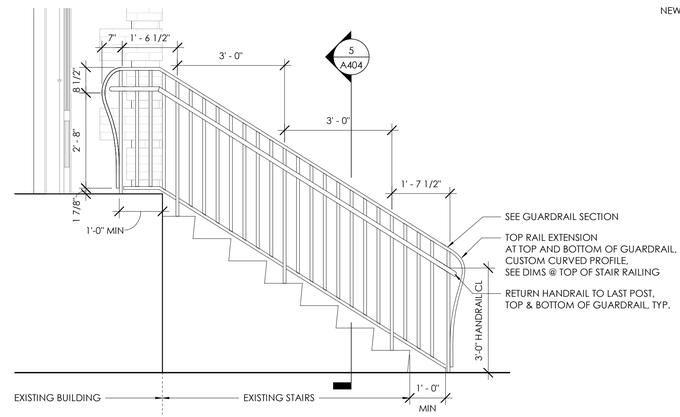
A403

9 3D - ENTRY STAIR GUARDRAIL



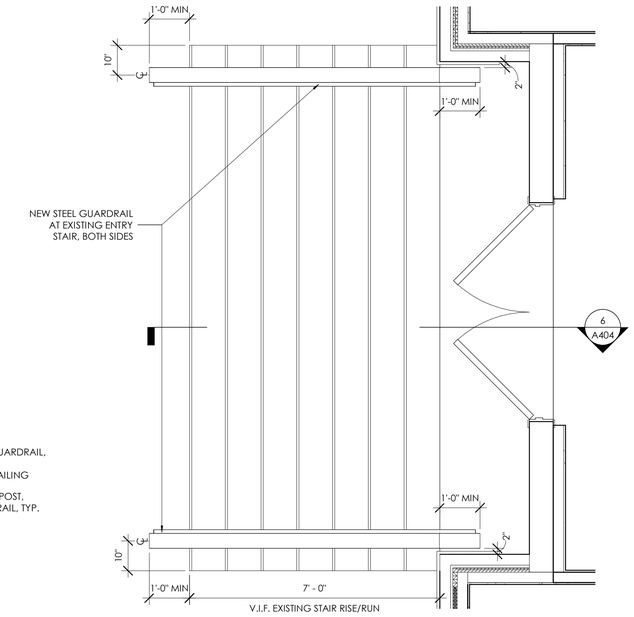
7 PLAN DETAIL @ EXTERIOR GUARDRAIL POSTS, TYP

1 1/2" = 1'-0"



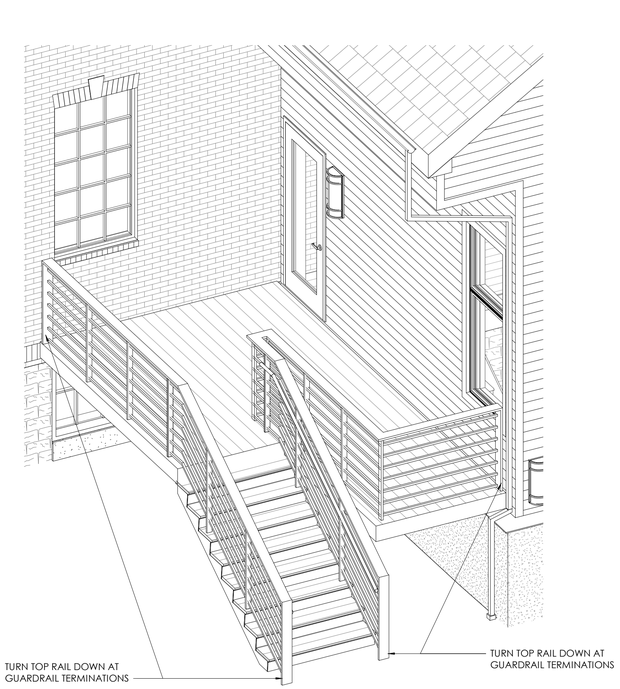
6 SECTION @ EXTERIOR STAIR EXISTING ENTRY

1/2" = 1'-0"

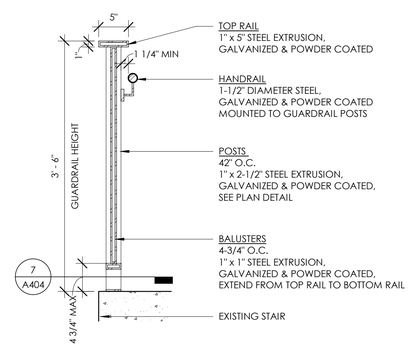


3 EXTERIOR STAIR @ EXISTING ENTRY

1/2" = 1'-0"

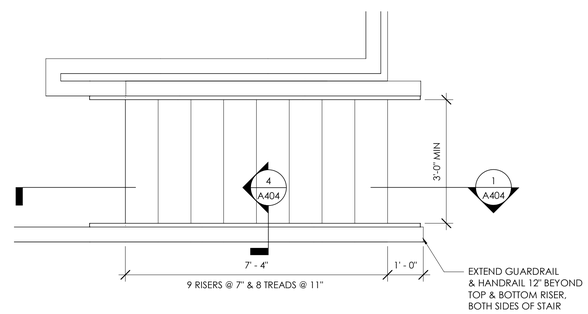


8 3D - DECK STAIR GUARDRAIL



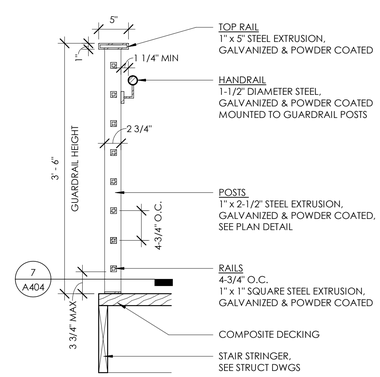
5 SECTION @ ENTRY GUARDRAIL

1" = 1'-0"



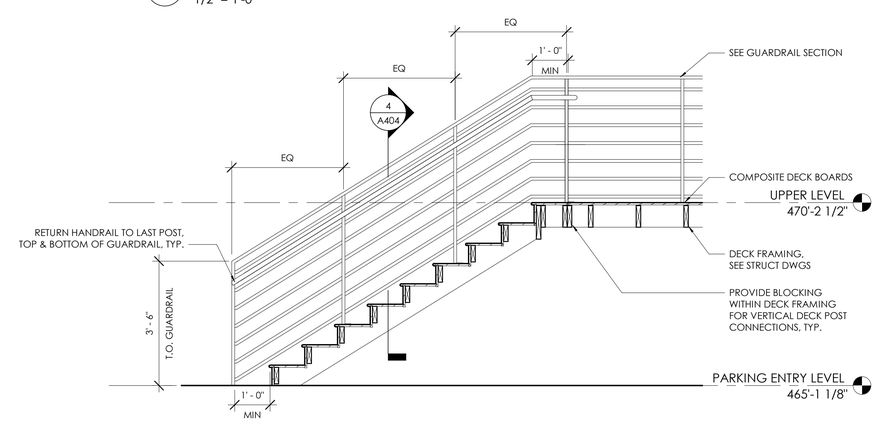
2 EXTERIOR STAIR @ DECK ADDITION

1/2" = 1'-0"



4 SECTION @ DECK GUARD RAIL

1" = 1'-0"



1 SECTION @ DECK STAIR

1/2" = 1'-0"

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
NO. 102798
STATE OF TENNESSEE
4.12.23

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SHEET TITLE

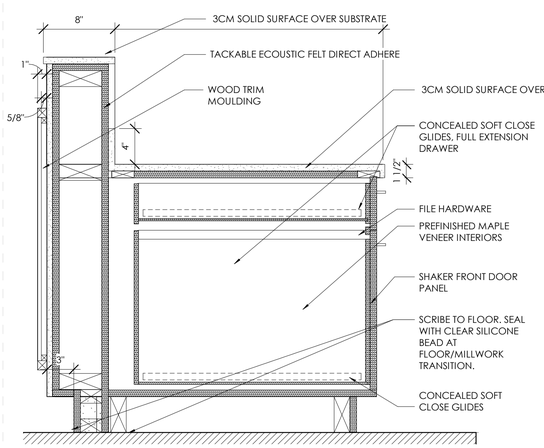
EXTERIOR STAIRS - ENLARGED PLANS & ELEVATIONS

FOR CONSTRUCTION

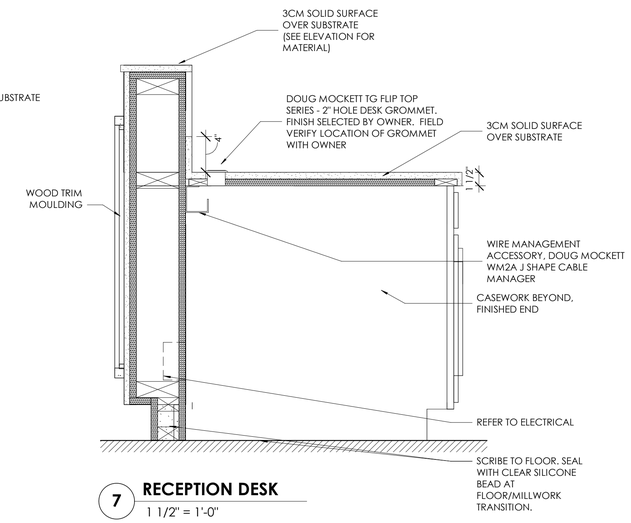
DATE	1.25.2023
DRAWN BY	LS
PROJECT NO.	2207

SHEET NO.

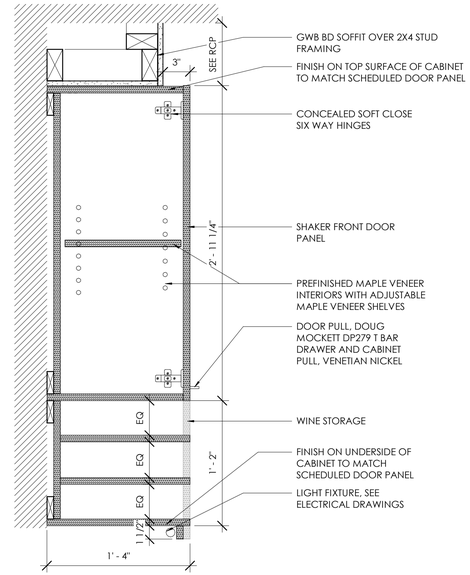
A404



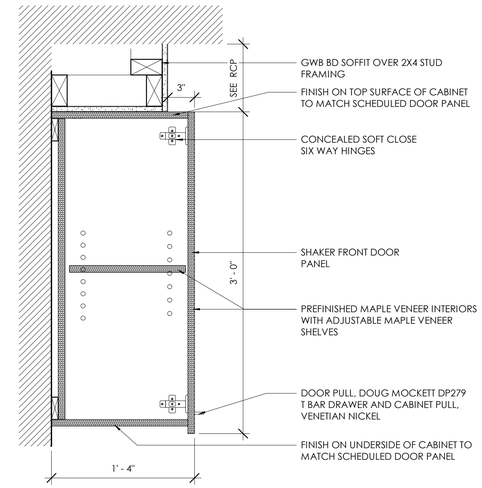
8 RECEPTION DESK DRAWER
1 1/2" = 1'-0"



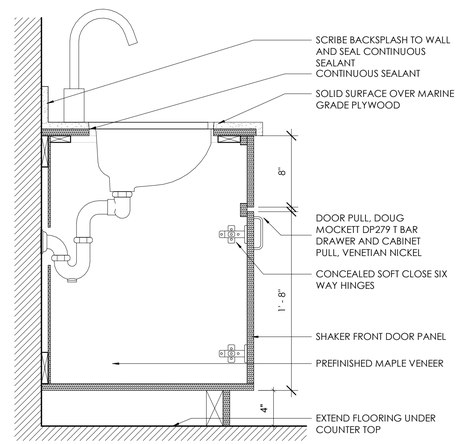
7 RECEPTION DESK
1 1/2" = 1'-0"



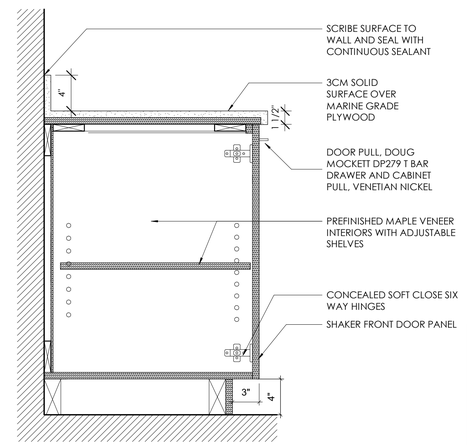
10 WALL CABINET WITH WINE STORAGE AND TASK LIGHT
1 1/2" = 1'-0"



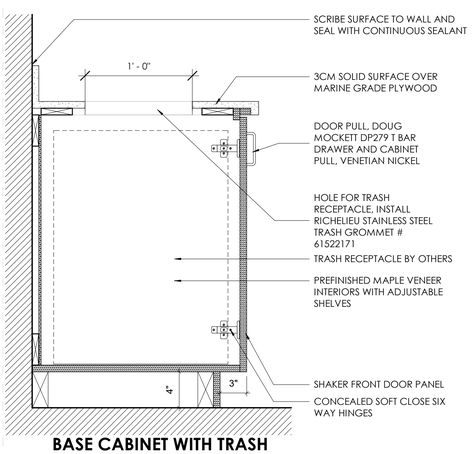
9 WALL CABINET
1 1/2" = 1'-0"



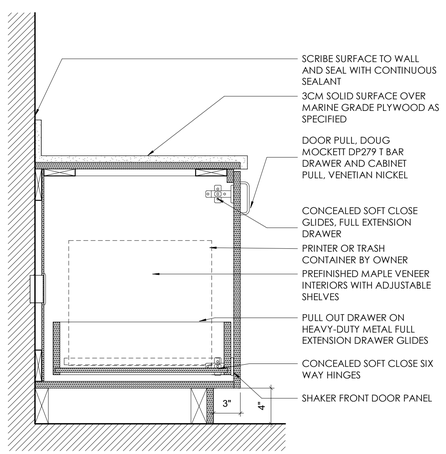
6 BASE CABINET WITH SINK SS
1 1/2" = 1'-0"



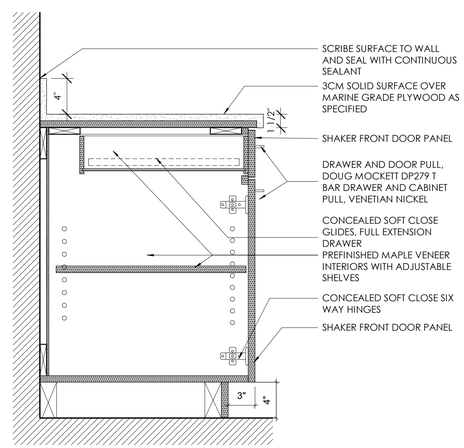
5 BASE CABINET WITHOUT DRAWER
1 1/2" = 1'-0"



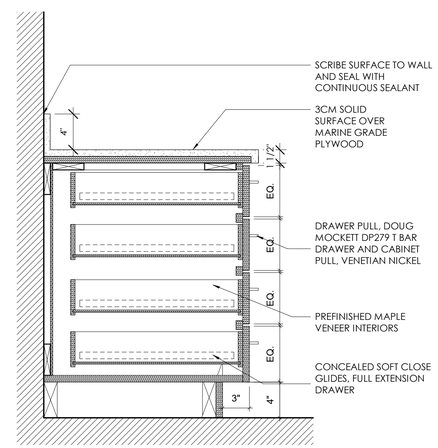
4 BASE CABINET WITH TRASH GROMMET
1 1/2" = 1'-0"



3 PULL OUT SHELF BASE CABINET
1 1/2" = 1'-0"



2 BASE CABINET WITH DRAWER
1 1/2" = 1'-0"



1 BASE CABINET 4 EQUAL DRAWERS
1 1/2" = 1'-0"

RUDY TITLE

1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880

MARK BIXLER
REGISTERED ARCHITECT
NO. 102798
STATE OF TENNESSEE
1.12.23

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SHEET TITLE

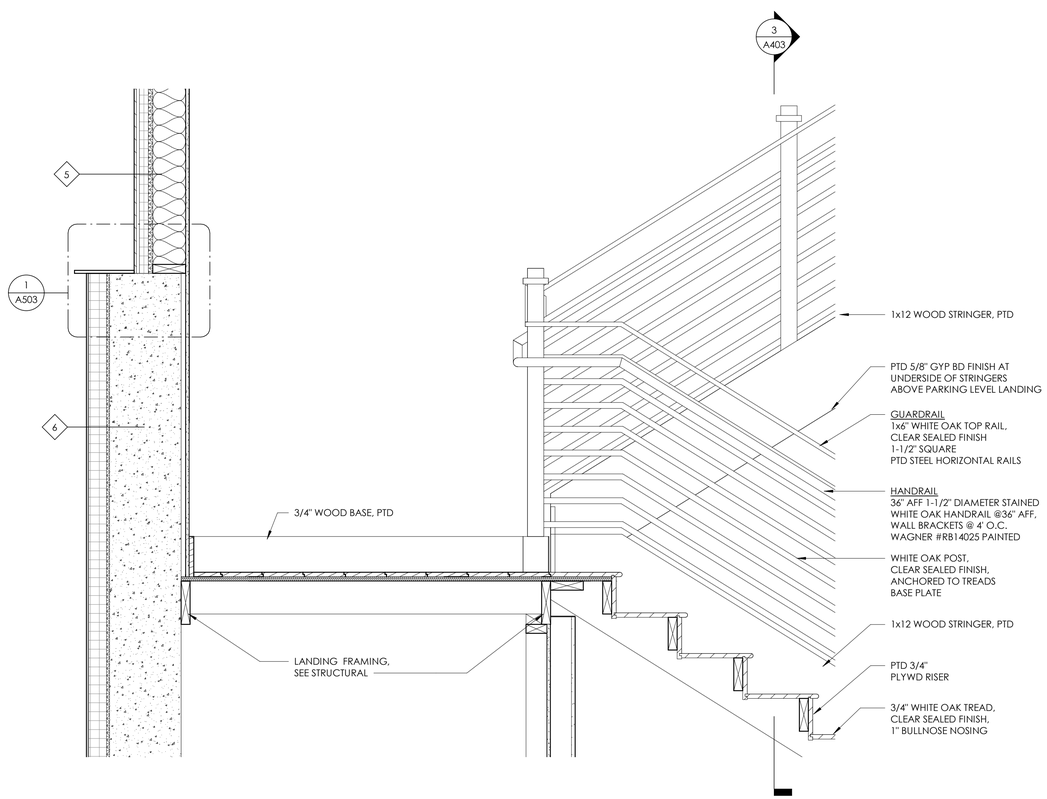
INTERIOR DETAILS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	JS
PROJECT NO.	2207

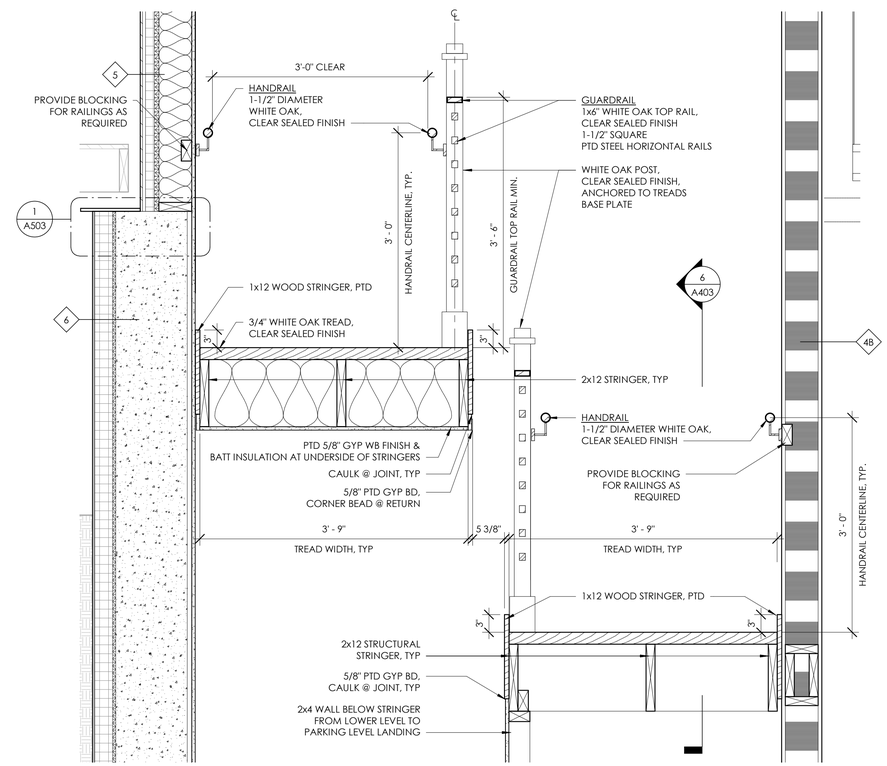
SHEET NO.

A501



2 SECTION @ LANDING, PARKING ENTRY LEVEL

1" = 1'-0"



1 SECTION @ STAIR GUARDRAIL

1" = 1'-0"

RUDY TITLE

1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS

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NASHVILLE, TN 37203
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MARK BIXLER
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1.4.23

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SHEET TITLE

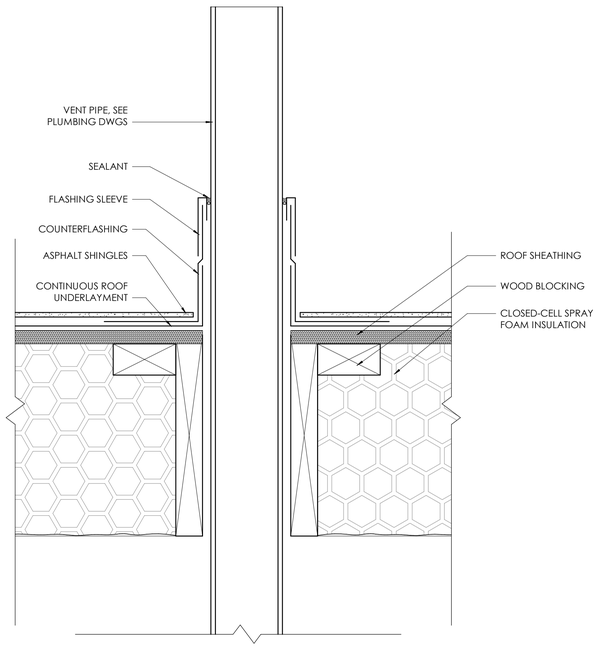
ADDITION STAIR DETAILS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	LS
PROJECT NO.	2207

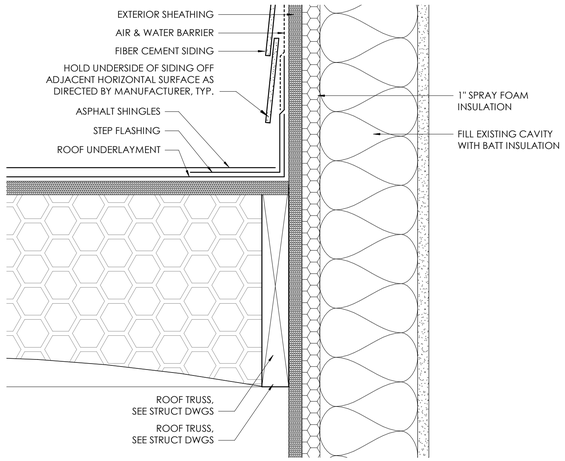
SHEET NO.

A502

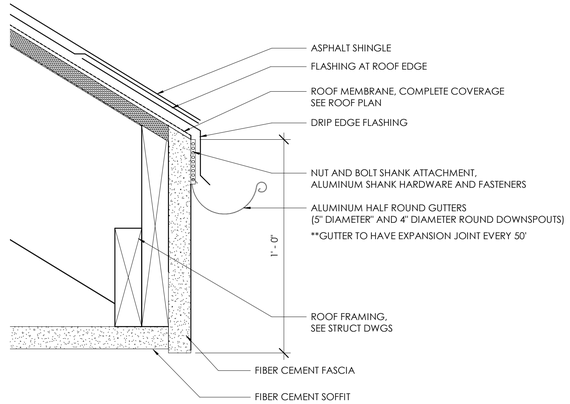


NOTE:
VIEW CUT PERPENDICULAR TO ROOF SLOPE

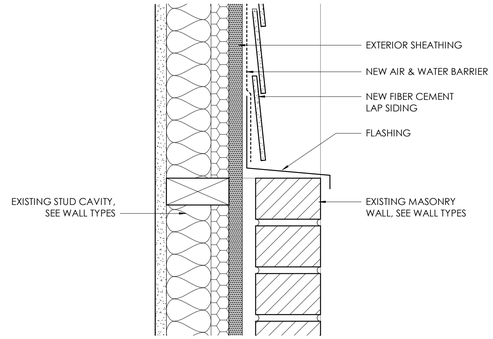
6 SECTION @ ROOF VENT PIPE TYPICAL
3" = 1'-0"



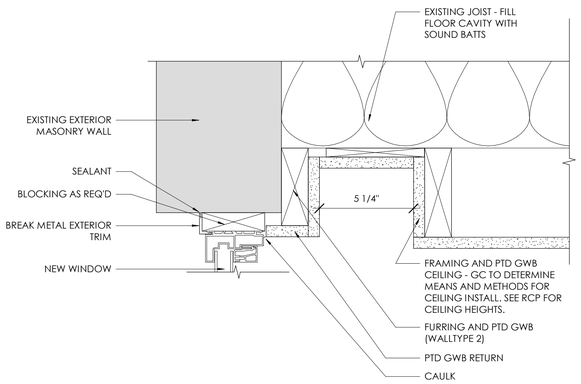
5 SECTION @ EXISTING EXT. WALL ROOF CONNECTION
3" = 1'-0"



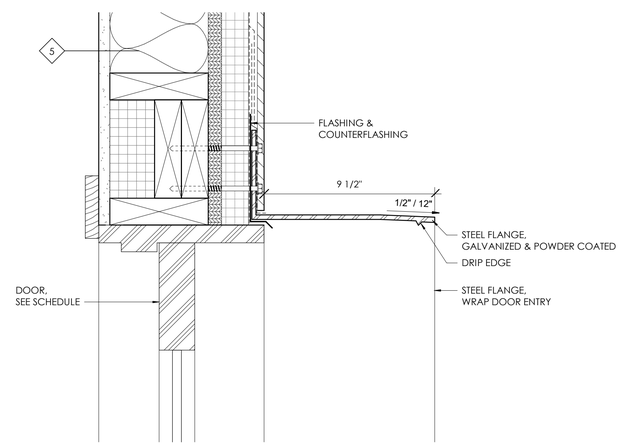
4 SEMI-ROUND - FASCIA MOUNTED GUTTER ATTACHMENT
3" = 1'-0"



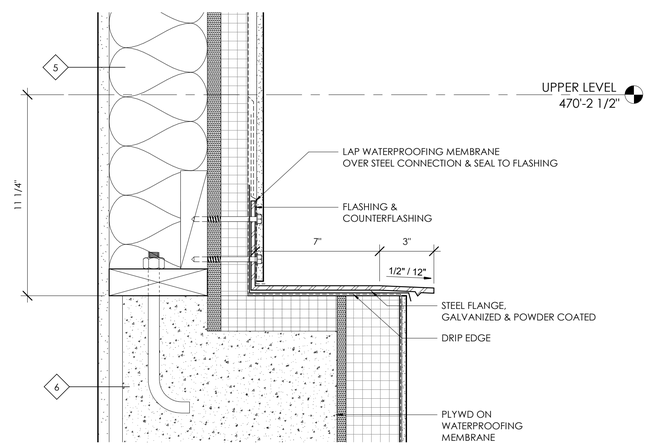
7 SECTION @ EXISTING WALL TRANSITION
3" = 1'-0"



3 SECTION @ WINDOW POCKET AT EXTERIOR WINDOW
3" = 1'-0"



2 SECTION @ DOOR HEAD PARKING ENTRY
3" = 1'-0"



1 DETAIL @ WALL TRANSITION
3" = 1'-0"

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS
40 YEARS
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SHEET TITLE
ADDITION EXTERIOR DETAILS

FOR CONSTRUCTION

DATE	1.25.2023
DRAWN BY	LS
PROJECT NO.	2207

SHEET NO.
A503

MATERIAL ID

PRODUCT CATEGORY	Key Name	MANUFACTURER	DESCRIPTION	Comments	LOCATION
CAB-CABINETS	CAB-1	TBD	PREFINISHED WOOD VENEER WITH ADJUSTABLE SHELVES, CONCEALED SOFT CLOSE HARDWARE	COORDINATE WOOD SPECIES WITH OWNER	BUSINESS CENTER
CD-COMPOSITE DECKING	CD	TBD	TBD	REFERENCE SHEET A404 FOR RAILING DETAILS AND MATERIALS	DECK
CT-TILE	CT-1	TBD	CERAMIC FLOOR TILE	$65F MATERIAL ALLOWANCE	
CT-TILE	CT-2	TBD	CERAMIC WALL TILE WAINSCOT - 42"AFF	$85F MATERIAL ALLOWANCE	
CTB-TILE BASE	CTB-1	TBD	TILE BASE TO MATCH CT-2		ALL RESTROOMS
GYP-GYP BOARD	GYP	TBD			
MIR-MIRROR	MIR-1	TBD	RESTROOM MIRROR UPSTAIRS	SELECTED BY OWNER, INSTALLED BY GC	ACC. TLT
MIR-MIRROR	MIR-2	BOBRICK	RESTROOM MIRROR DOWNSTAIRS - B165 12430	INSTALLED BY GC	
P-PAINT	P	TBD	SHERWIN WILLIAMS		
SS-SOLID SURFACE	SS-1	TBD	3CM QUARTZ/GRANITE COUNTERTOP COPY AREA	COORDINATE FINISH/COLORWAY WITH OWNER	BUSINESS CENTER
TA-TOILET ACCESSOIRES	TA-1	BOBRICK	WALL HOOK B-9542 FINISH SELECTED BY OWNER	INSTALLED BY GC	TLT
TA-TOILET ACCESSOIRES	TA-2	BOBRICK	PAPER TOWEL DISPENSER B-35903 FINISH SELECTED BY OWNER	INSTALLED BY GC	TLT
TA-TOILET ACCESSOIRES	TA-3	BOBRICK	TOILET PAPER DISPENSER - B-9547 STAINLESS STEEL	INSTALLED BY GC	TLT
TA-TOILET ACCESSOIRES	TA-4	BOBRICK	GRAB BAR - 42" B-9806 FINISH SELECTED BY OWNER	PROVIDED BY GC, INSTALLED BY GC - CONFIRM FINISH WITH OWNER	TLT
TA-TOILET ACCESSOIRES	TA-5	BOBRICK	GRAB BAR - 36"-9806 FINISH SELECTED BY OWNER	PROVIDED BY GC, INSTALLED BY GC - CONFIRM FINISH WITH OWNER	TLT
TA-TOILET ACCESSOIRES	TA-6	BOBRICK	GRAB BAR - 18" VERTICAL-9806 FINISH SELECTED BY OWNER	PROVIDED BY GC, INSTALLED BY GC - CONFIRM FINISH WITH OWNER	TLT
TRS-TRANSITION	TRS	SCHLUTER	JOLLY AT ALL EXPOSED WALL TILE EDGES		
VCT-VINYL COMPOSITION TILE	VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE - FINISH SELECTED BY OWNER		
WD-WOOD FLOOR	WD-1	EXISTING	REFINISHED AND STAINED		
WD-WOOD FLOOR	WD-2	TBD	STAINED TO MATCH EXISTING, TOOTH INTO EXISTING, MATCH WIDTH AND SPECIED OF EXISTING		
WDB-WOOD WALL BASE	WDB-1	TBD	7" PROFILE, COX INTERIOR BASEBOARD BBJ (3/4" X 7 1/4") PAINTED		
WDB-WOOD WALL BASE	WDB-2	TBD	6" PROFILE, POPLAR SPECIES PAINT GRADE 1X6		
WT-WINDOW TREATMENT	WT	TBD	PROVIDED BY OWNER		

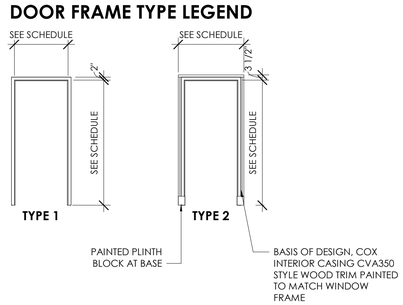
ROOM FINISH SCHEDULE

SPACE		FLOOR	BASE		
ROOM NUMBER	ROOM NAME	MAT	MAT	Wall Finish	REMARKS
001A	STAIRWELL	WD-2	WDB-2	P	STAINED OAK TREADS AND PAINTED RISERS
001B	CORRIDOR	CT-1	WDB-2	P	
002	SHARED OFFICE 1	CT-1	WDB-2	P	
003	SHARED OFFICE 2	CT-1	WDB-2	P	
004	SHARED OFFICE 3	CT-1	WDB-2	P	
005	SHARED OFFICE 4	CT-1	WDB-2	P	
006	BREAK ROOM	CT-1	WDB-2	P	
007	MECH	CT-1	WDB-2	P	
008	ACC TLT	CT-1	CTB	P	TILE WAINSCOT, GRAB BARS PROVIDED AND INSTALLED BY GC, TOILET ACCESSORIES AS SPECIFIED AND INSTALLED BY GC
009	PRIVATE OFFICE	CT-1	WDB-2	P	
010	SHARED OFFICE 5	CT-1	WDB-2	P	
011	BATHROOM	CT-1	CTB	P, CT-2	TILE WAINSCOT, GRAB BARS PROVIDED AND INSTALLED BY GC, TOILET ACCESSORIES AS SPECIFIED AND INSTALLED BY GC
012	BATHROOM	CT-1	CTB	P, CT-2	TILE WAINSCOT, GRAB BARS PROVIDED AND INSTALLED BY GC, TOILET ACCESSORIES AS SPECIFIED AND INSTALLED BY GC
013	ELEVATOR MACHINE ROOM	VCT-1	WDB-1	P	
100	VESTIBULE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING
101	PRIVATE OFFICE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING
102	PRIVATE OFFICE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING
103	CORRIDOR	WD-1, 2	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING
103B	CLOSET	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING
104	CONFERENCE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING, 3 PART PAINT GRADE CROWN MOULDING BOD COX INTERIOR CM48
105	TLT	CT-1	CTB	P, CT-2	TILE WAINSCOT, GRAB BARS PROVIDED AND INSTALLED BY GC, ALL OTHER TOILET ACCESSORIES PROVIDED BY OWNER INSTALLED BY GC
106	MECH./STORAGE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING
107	CONFERENCE	WD-1, 2	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING, 3 PART PAINT GRADE CROWN MOULDING BOD COX INTERIOR CM48
108	STAIRWELL	WD-1, 2	NA	P	STAINED OAK TREADS AND PAINTED RISERS
109	ELEV.	CT-1	NA	NA	SELECTED FROM STANDARD MFR OFFERINGS
112	ACC TLT	CT-1	CTB	P, CT-2	TILE WAINSCOT, GRAB BARS PROVIDED AND INSTALLED BY GC, ALL OTHER TOILET ACCESSORIES PROVIDED BY OWNER INSTALLED BY GC
113	CONFERENCE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING, 3 PART PAINT GRADE CROWN MOULDING BOD COX INTERIOR CM48
114	CONFERENCE	WD-1	WDB-1	P	EXISTING FLOOR TO BE REFINISHED/NEW AREAS TO MATCH EXISTING FLOORING, 3 PART PAINT GRADE CROWN MOULDING BOD COX INTERIOR CM48
118	ELEV	CT-1			SELECTED FROM STANDARD MFR OFFERINGS
119	VESTIBULE	WD-1	WDB-1	P	

WINDOW SCHEDULE

type	WIDTH	HEIGHT	Operation	Material	remarks
39	3'-8 1/2"	3'-5 1/2"	FIXED	WOOD ALUM CLAD	MATCH EXISTING MASONRY OPENING - GC TO CONFIRM
44	2'-11"	5'-11"	FIXED	WOOD ALUM CLAD	FIXED CASEMENT WINDOW
45	2'-11"	2'-11"	FIXED	WOOD ALUM CLAD	FIXED CASEMENT WINDOW
48	2'-11"	4'-5"	FIXED	WOOD ALUM CLAD	FIXED CASEMENT WINDOW
49	3'-11"	6'-2"	SINGLE HUNG	WOOD ALUM CLAD	MATCH EXISTING MASONRY OPENING - GC TO CONFIRM
50	4'-0"	6'-0"	SINGLE HUNG	WOOD ALUM CLAD	MATCH EXISTING MASONRY OPENING - GC TO CONFIRM
51	3'-0"	3'-5 1/2"	SINGLE HUNG	WOOD ALUM CLAD	MATCH EXISTING MASONRY OPENING - GC TO CONFIRM
54	3'-8 1/2"	3'-5 1/2"	FIXED	WOOD ALUM CLAD	MATCH EXISTING MASONRY OPENING - GC TO CONFIRM, HALF LOUVER

DOOR FRAME TYPE LEGEND



DOOR SCHEDULE

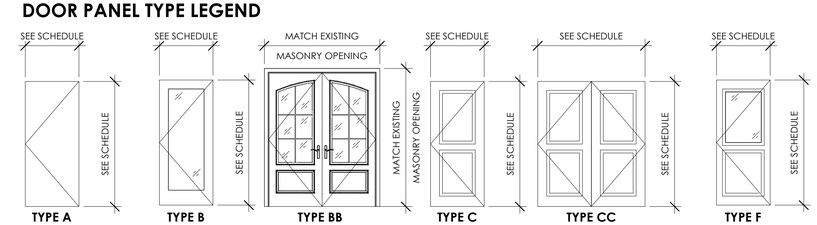
		DOOR					DOOR	FRAME		
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	Fire Rating	HW SET	ELEV	MATERIAL	ELEV	REMARKS
001	CORRIDOR	3'-0"	7'-0"	SOLID CORE WD	45 MINS	ADFH	A	HOLLOW METAL	1	PT GRADE
001A	STAIRWELL	3'-0"	3'-0"				A		1	
001B	BATHROOM	3'-0"	7'-0"	SOLID CORE WD		AFHK	A	HOLLOW METAL	1	PT GRADE
002	SHARED OFFICE 1	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
003	SHARED OFFICE 2	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
004	SHARED OFFICE 3	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
005	SHARED OFFICE 4	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
006	BREAK ROOM	3'-0"	7'-0"	SOLID CORE WD		AFH	A	HOLLOW METAL	1	PT GRADE
007	MECH	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
008	ACC TLT	3'-0"	7'-0"	SOLID CORE WD		AFHK	A	HOLLOW METAL	1	PT GRADE
009	PRIVATE OFFICE	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
010	SHARED OFFICE 5	3'-0"	7'-0"	SOLID CORE WD		AFGH	A	HOLLOW METAL	1	PT GRADE
012	BATHROOM	3'-0"	7'-0"	SOLID CORE WD		AFHK	A	HOLLOW METAL	1	PT GRADE
013	ELEVATOR MACHINE ROOM	3'-0"	7'-0"	SOLID CORE WD	45 MINS	ADGH	A	HOLLOW METAL	1	PT GRADE
019	VESTIBULE	3'-0"	7'-0"	ALUM CLAD WOOD		N	B	BY MFR	1	PT GRADE INTERIOR, PT WOOD TRAIM AT INTERIOR TO MATCH UPPER FLOOR DOORS
100	VESTIBULE	3'-0"	9'-0"	SOLID CORE WD		DHJLM	BB	WOOD	2	PAIR, PAINT GRADE, CUSTOM
101	PRIVATE OFFICE	3'-0"	7'-0"	SOLID CORE WD		CFGH	F	WOOD	1	PT GRADE, GLASS INSET
102	PRIVATE OFFICE	3'-0"	7'-0"	SOLID CORE WD		CFGH	F	WOOD	1	PT GRADE, GLASS INSET
103B	CLOSET	4'-0"	7'-0"	SOLID CORE WD		BEHL	CC	WOOD	2	PAIR, PAINT GRADE
104	CONFERENCE	3'-0"	7'-0"	SOLID CORE WD		CFH	F	WOOD	1	STAIN GRADE, PT INSET
105	TLT	3'-0"	7'-0"	SOLID CORE WD		CFHK	C	WOOD	2	PT GRADE INTERIOR
106	MECH./STORAGE	3'-0"	7'-0"	SOLID CORE WD		CFH	C	WOOD	2	PT GRADE
107	CONFERENCE	3'-0"	7'-0"	SOLID CORE WD		CFH	F	WOOD	1	PT GRADE, GLASS INSET
108	STAIRWELL	4'-0"	8'-0"	SOLID CORE WD	45 MINS	CDFH	A	HOLLOW METAL	1	PT GRADE, FINISH INTERIOR TRIM TO MATCH OTHER DOORS ADD PT WOOD TRAIM TO BOTH SIDES OF HM FRAME TO MATCH UPPER FLOOR DOORS
109	ELEV.	3'-0"	7'-0"	ELEVATOR MFR		-	-	BY MFR		ELEVATOR MFR
110	STAIRWELL	3'-0"	7'-0"	ALUM CLAD WOOD		N	B	ALUMINUM CLAD EXTERIOR PAINTED INTERIOR	2	PT GRADE INTERIOR PT WOOD TRIM AT INTERIOR -MATCH UPPER FLOOR DOORS
NOTE: PROVIDE THRESHOLD EXTENSION FOR DOOR 110 AT DECK ADDITION.										
111	CORRIDOR	3'-0"	7'-0"	SOLID CORE WD		CFH	F	WOOD	1	STAIN GRADE, GLASS INSET
112	ACC TLT	3'-0"	7'-0"	SOLID CORE WD		CFKH	C	WOOD	2	STAIN GRADE
113	CONFERENCE	3'-0"	7'-0"	SOLID CORE WD		CFH	F	WOOD	1	STAIN GRADE, GLASS INSET
114	CONFERENCE	3'-0"	7'-0"	SOLID CORE WD		CFH	F	WOOD	1	STAIN GRADE, GLASS INSET
118A	ELEV	3'-0"	7'-0"	ELEVATOR MFR		-	-	BY MFR		ELEVATOR MFR
118B	ELEV	3'-0"	7'-0"	ELEVATOR MFR		-	-	BY MFR		ELEVATOR MFR

HARDWARE SCHEDULE

HARDWARE LEGEND:

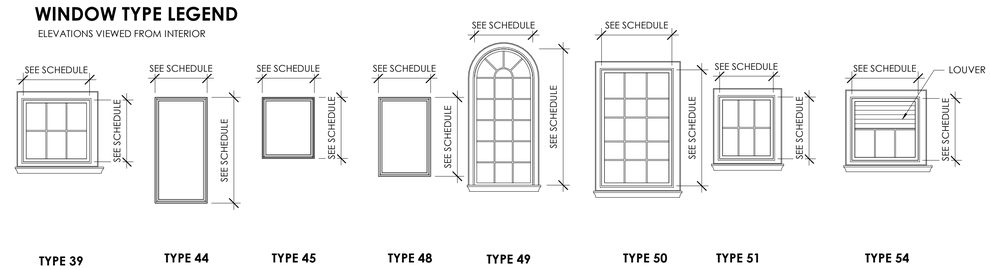
A TUBULAR LEVERSET - PASSAGE FUNCTION, SCHLAGE ND SERIES, ATHENS LEVERSET, 26D FINISH
B TUBULAR LEVERSET - DUMMY FUNCTION WITH ROLLER LATCHES, COORDINATE FINAL SELECTION WITH OWNER, PROVIDE $200 PER DOOR ALLOWANCE
C TUBULAR LEVERSET - PASSAGE FUNCTION, COORDINATE FINAL SELECTION WITH OWNER, PROVIDE $200 PER DOOR ALLOWANCE
D CLOSER
E ROLLER LATCH
F DOOR STOP - PROVIDE $20 PER DOOR ALLOWANCE FOR PRODUCT
G WIRELESS (BATTERY) ELECTRONIC LOCK - YALE ASSURE LOCK 2
H BUTT HINGES
J PULL HANDLE/PUSH PLATE - PROVIDE $200 PER DOOR ALLOWANCE
K OCCUPANCY INDICATOR - SCHLAGE B571 OR EQ - MATCH FINISH TO HARDWARE
L FLUSH BOLTS (TOP AND BOTTOM) - MATCH FINISH TO HARDWARE
M DEADBOLT - SINGLE CYLINDER, SCHLAGE B80 SERIES (COORD KEYING WITH OWNER)
N HARDWARE PROVIDED BY DOOR MANUFACTURER

DOOR PANEL TYPE LEGEND



WINDOW TYPE LEGEND

ELEVATIONS VIEWED FROM INTERIOR



**TYPE 39, 49, 50, 51,54 BASIS OF DESIGN, COX INTERIOR TRIM CV425 STYLE WOOD TRIM PAINTED TO MATCH WINDOW FRAME, 1" SILL WITH 1/2" OVERHANG OF CASING AND RETURN MITER END

RUDY TITLE
1926 10TH AVE NORTH
NASHVILLE TN 37208

MANUEL ZEITLIN ARCHITECTS 40 YEARS
516 HAGAN STREET, SUITE 100
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MARK BIXLER REGISTERED ARCHITECT ACC. NO. 102798 STATE OF TENNESSEE 4.12.23

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SHEET TITLE

DOOR & FINISH SCHEDULES

FOR CONSTRUCTION

DATE 1.25.2023
DRAWN BY JS/LS/MB
PROJECT NO. 2207

SHEET NO.

A601

PLUMBING SYMBOLS LEGEND

	S OR W	SANITARY OR WASTE PIPING BELOW SLAB(U.N.O.)
	V	SANITARY VENT PIPING
	GW	GREASE WASTE PIPING BELOW SLAB (U.N.O.)
	CD	CONDENSATE DRAIN
	CWF	COLD WATER PIPING
	HW	HOT WATER PIPING
	CWF	COLD WATER FILTRATED
	CWN	COLD WATER NANO FILTRATED
	CWS	COLD WATER SOFTENED
	TW	TEMPERED HOT WATER
	G	GAS PIPING
	BV	BALL VALVE
	GV	GATE VALVE
	CH. V	CHECK VALVE
	PVR	PRESSURE REDUCING VALVE
	RV	RELIEF VALVE
	BFP	BACKFLOW PREVENTER
	HB	HOSE BIBB
		SHOCK ABSORBER
		STRAINER
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEAN OUT
	FS	FLOOR SINK
	WM	WATER METER
	POC	CONNECT TO EXISTING

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
APPROX	APPROXIMATE
BLDG	BUILDING
CLG	CEILING
CONST	CONSTRUCTION
CD	CEILING DIFFUSER
CO2	CARBON DIOXIDE
DEG	DEGREES
DTL	DETAIL
DM	DESIGN MANAGER
DN	DOWN
DWG	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
(E) OR (EX)	EXISTING
EXT	EXTERIOR
EG	EXHAUST GRILL
F & I	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
G	GAS PIPING
GC	GENERAL CONTRACTOR
HR	HOURS
HVAC	HEATING, VENTILATION, AIR CONDITIONING.
LL	LANDLORD
LV	LOW VOLTAGE
MAX	MAXIMUM
MECH	MECHANICAL
MC	MECHANICAL CONTRACTOR
MEP	MECHANICAL, ELECTRICAL AND PLUMBING.
MFG	MANUFACTURER
MIN	MINIMUM
NT	NOT TO SCALE
OSA	OUTSIDE AIR
PM	PROJECT MANAGER
REF	REFERENCE
REQ('D)	REQUIRE (D)
REV	REVISION/REVISION
RG	RETURN GRILL
RT	ROOF TOP
SHT	SHEET
SPECS	SPECIFICATIONS
SF	SQUARE FEET
SS	STAINLESS STEEL
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WSHP	WATER SOURCE HEAT PUMP

GENERAL PLUMBING NOTES

1. PC SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND BE RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL THE FULL SCOPE OF WORK. IN ADDITION, THE PC SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, PIPING, AND FIXTURES WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.
2. EXPOSED/SURFACE MOUNTED PIPING IS ONLY ALLOWED IN THE BAR AREA UNDER COUNTERTOPS, WHERE IT DOSE NOT OBSTRUCT CABINETS/DEVICES AND WHERE APPROVED BY CM. IF ROUTED THROUGH CABINETS, IT SHALL BE ROUTED TO MAXIMIZE STORAGE SPACE AND BE PROTECTED FROM DAMAGE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL INTEND OR ARRANGEMENT OF SYSTEMS(S) F & D ALL COMPONENTS NEEDED WHETHER INDICATED OR NOT TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES, AND NOTIFY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE TAKEN FROM ACTUAL BUILDING DIMENSIONS.
5. THE PLUMBING CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. SEE ARCH. DRAWINGS FOR FIXTURES IN CASEWORK AND PLUMBING DETAILS.
6. ALL PIPES AND/OR PLUMBING DEVICES SHALL BE SUPPORTED FROM STRUCTURE (NOT FROM HVAC DUCTS OR OTHER PIPES/CONDUITS.
7. ALL IS NEW UNLESS OTHERWISE NOTED.

PLUMBING SPECIFICATIONS

BASIC MATERIALS AND METHODS

Materials:
PROVIDE ALL NEW MATERIAL AND FIXTURES UNLESS NOTED OTHERWISE. ALL FIXTURES AND MATERIALS SHALL BE LABELED AND LISTED WHERE REQUIRED BY CODE AND AHJ.

CUTTING, CORING AND FITTING
PERFORM PREPARING AND FINISH OF THE WORK NECESSARY FOR THE INSTALLATION OF THE FIXTURE. HOWEVER NO CUTTING OF THE WORK OF OTHER TRADES OR ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT, CONSTRUCTION MANAGER, GC, AND/OR OWNER. PROPERLY FILL, SEAL, FIREPROOF,WATERPROOF ALL OPENINGS, SLEEVES AND HOLES IN SLAB, WALLS, AND CASEWORK.

HANGERS AND SUPPORTS
THE PLUMBING CONTRACTOR SHALL F&I ALL PIPE SUPPORTS NEEDED FOR EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS SPACED NO MORE THAN 10 FEET O.C. FOR PIPES 1-1/4" AND LARGER. AND 8 FEET O.C. FOR PIES SMALLER THAN 1-1/4" AND AT EACH JOINT FOR SOIL OR WASTE PIPE. ADDITIONAL SUPPORT SHALL BE PROVIDED WHERE NEEDED TO PREVENT SAGGING. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATES WITH GALVANIZED COATING; NONMETALLIC CODING FOR HANGERS IN DIRECT CONTACT WITH COOPER TUBING.

CONNECTIONS
INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP UP TO AND 1-1/2". WELD PIPING USED NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER PIPE.

INSTALLATION
INSTALL PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVE FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF SLAB/STRUCTURE. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRE-STOPING SEALANT MATERIAL MEETING CODE, AHJ. AND ARCHITECT REQUIREMENTS.

EQUIPMENT
THE PLUMBING CONTRACTOR SHALL VERIFY ANY EQUIPMENT LOCATION AND SIZES REQUIRING PLUMBING CONNECTION(S) WITH THE TRADE AND VENDOR SUPPLYING THE EQUIPMENT PRIOR TO ROUGH-IN.

CLEANOUTS
F&I J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS AMD WHERE NEEDED IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILES OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

TESTING
ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETED, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY AHJ. TEST WATER PURITY ACCORDING TO AHJ. AND SUBMIT CERTIFY TEST RESULTS TO AHJ. FOR REVIEW AND APPROVAL.

PIPING

SOIL WASTE AND VENT PIPING:
SOIL WASTE AND VENT PIPING 10" AND SMALLER SHALL BE SERVICE WEIGHT, HUBLESS CAST IRON PIPING AND FITTINGS WITH NEOPRENE GASKETS AND STAINLESS STEEL SHIELD AND CLAMP. PVC IS ACCEPTABLE PROVIDED THAT THE LOCAL JURISDICTION ALLOWS APPLICATION OF THESE PRODUCTS. PROVIDE HUB-TYPE PIPE AND FITTINGS BELOW GRADE WHERE REQUIRED BY LOCAL CODES OR AHJ. HORIZONTAL RUNS SHALL DRAIN AT A GRADE OF 1/4 INCH PER FOOT WHERE POSSIBLE BUT IN NO CASE LESS THAN 1/8 INCH PER FOOT. APPLY TO BUILDING DEPARTMENT FOR VARIANCE IF 1/8" IS NEEDED. COORDINATE WITH AHJ. FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPE DRAIN TO SANITARY IF REQUIRED BY AHJ. RELOCATE ANY VENTS NECESSARY TO GIVE 10 FOOT CLEARANCE FROM HVAC INTAKE. COORDINATE WITH HVAC CONTRACTOR.

DOMESTIC WATER PIPING.
DOMESTIC WATER IS TO BE TYPE L COPPER WITH 95/5 SOLDER JOINTS. PEX PRODUCTS AS MANUFACTURED BY UPINOR OR EQUAL ARE ACCEPTABLE PROVIDED THAT THE LOCAL JURISDICTION ALLOWS APPLICATION OF THESE PRODUCTS.
THE PLUMBING CONTRACTOR SHALL F&I CONDENSATE DRAINS FOR AIR HANDLING UNITS, REFRIGERATION EQUIPMENTS, & AND ANY OTHER APPLICABLE EQUIPMENT.
CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COOPER TUBING WITH WROUGHT COOPER SWEAT FITTINGS JOINED WITH 50/50 SOLDER.

VALVES

GENERAL
PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT. PROVIDE STOP VALVES FOR ALL EQUIPMENT WHETHER SHOWN ON THE DRAWINGS OR NOT.

VALVES
PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GRATER (CONFIRM). UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS (PC SHALL VERIFY MODEL NUMBERS INDICATED ARE APPROPRIATE FOR APPLICATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES/CHANGES PRIOR TO INSTALLATION).

VALVE TYPE	MANUFACTURER	MODEL No.
CHECK VALVE (UP TO 2")	MBCO	#S-413
FULL PORT BALL VALVE (UP TO 3")	MBCO	#S-FP-600
GATE VALVE (UP TO 3")	MBCO	#S-113
TEMPERATURE & PRESSURE RELIEF VALVE	WLKINS	#TP1100A
WATER HAMMER ARRESTOR	WLKINS	#1250
BACKFLOW PREVENTER (WHOLE-HOUSE DOUBLE CHECK) (CONFIRM IF AHJ APPROVED)	WLKINS	#950XLU
BACKFLOW PREVENTER (SINGLE DEVICE) (CONFIRM IF AHJ APPROVED)	WLKINS	#700
VACUUM RELIEF VALVE	WLKINS	#35
PRESSURE REDUCING VALVE	WLKINS	#500YSBR
TRAP SEAL PRIMER	JAY R SMITH	#2699-1
THERMOSTATIC MIXING VALVE	WLKINS	#TBD

THERMOSTATIC MIXING VALVE
PROVIDE A SINGLE THERMOSTATIC MIXING VALVE (TMV) LOCATED AT HOT WATER TANK AND SET FOR 105° (OR AS REQUIRED BY AHJ) TO SERVE HAND SINK. FOR REMODELS F&I MIXING VALVES UNDER THE SINK(S) IF THERE IS NOT EXISTING TMV AND PIPING MIXING VALVE TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS WITH CHECK VALVES AT INLETS.

PRESSURE REDUCING VALVE
IF WATER PRESSURE SUPPLIED TO STORE IS GREATER THAN 65 PSI, THEN PROVIDE A PRESSURE REGULATOR AT SERVICE ENTRY TO MAINTAIN WATER PRESSURE (NOT NECESSARILY SHOWN ON DRAWINGS).

INSULATION

WATER PIPING:
F&I THERMAL INSULATION ON ALL HOT AND COLD WATER AND HORIZONTAL WASTE PIPING IN CEILING SPACES. AND ON ALL WATER PIPING IN CASEWORK AND BAR AREAS USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURER APPROVED ADHESIVES, SEALER, AND COATING. ALL MATERIALS USED SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 A SMOKE DEVELOPED INDEX NOT MORE THAN 50. UNLESS OTHERWISE REQUIRED BY THE AHJ OR ENERGY CODES. THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

PIPE SIZE	INSULATION THICKNESS
LESS THAN OR EQUAL TO 1 ½"=	1"
2" DIA. OR GREATER=	1-1/2"
INSULATION VALUE=	K VALUE NOT EXUDING 0.27 BTU*INCH/H*FT*F

SAFETY COVERS
INSTALL NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP UNDER ADA SINKS AS FURNISHED BY STARBUCKS.

ICE BIN DRAINS
INSULATE ICE BIN COOPER DRAIN LINES WITH ½" THICK SELF-SEALING SECTIONAL, CLOSED CELL FOAM.

RAIN CONDUCTORS
INSULATE RAIN WATER CONDUCTORS WHICH PASS TROUGH OCCUPIED AREAS (WHERE APPLICABLE) WITH 1/2"

HVAC PIPING
INSULATE COOLING COIL PIPING AND CONDENSATE PIPING WITH CODE & MANUFACTURER SIZED, SELF SEALANT, CLOSED CELL FOAM. INSULATE HVAC CONDENSOR WATER SUPPLY & RETURN PIPING SYSTEMS AND CONDENSATE PIPING WITH CODE & MANUFACTURER SIZED, HEAVY DUTY, SELF SEALING, JACKETED FIBERGLASS.

PLUMBING FIXTURES

THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT INCLUDING REQUIRED MATERIAL SUCH AS PIPING, VALVES, FILTERS, TRAPS, CHECKS VALVES, VACUUM BARKERS, AND FLEXIBLE AND RIGID TUBING.

PLUMBING SHEET INDEX

P001	SPECIFICATIONS
P101	WASTE/VENT PLAN
P102	WATER PLAN
P201	DETAILS
P301	RISERS

GENERAL SPECIFICATION NOTES

NOTE:
"CONTRACTOR" MEANS "PLUMBING CONTRACTOR" WHEN REFERENCE ANYWHERE IN THE MECHANICAL CONSTRUCTION DOCUMENTS UNLESS WORK AND EQUIPMENT HAS BEEN COORDINATED BETWEEN THE PLUMBING AND GENERAL CONTRACTORS TO BE PROVIDED BY OTHERS. "NEEDED", "PROVIDED", AND "INSTALL" MEANS ALL ITEMS CALL OUT IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL ITEMS NOT CALLED OUT BUT REQUIRED TO MAKE A COMPLETE AND OPERATIONAL SYSTEM.

SCOPE:
THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO PROVIDE A COMPLETE AND FULL OPERATIONAL PLUMBING SYSTEM. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE PLUMBING WORK.

STANDARDS:
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF THE ASME, ASTM, UL, NEMA, ANSF, ANSI, ASHRAE, NFPA, IPMO OR ICBO OR OTHER APPLICABLE AGENCIES AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES:
PERFORM ALL WORK IN ACCORDANCE WITH THE CURRENT PLUMBING CODES. STATE AND LOCAL CODES/ORDINANCESAND AHJ. ALL WORK SHALL ALSO BE IN COMPLIANCE WITH BUILDING OWNER'S CRITERIA. IN CASE OF CONFLICT BETWEEN DRAWING SPECIFICATIONS, CODES, ORDINANCES AND AHJ. THE MOST STRINGENT STANDARD (IN THE OPINION OF THE ENGINEER) SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE, AH., DRAWINGS AND SPECIFICATIONS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST.

PERMITS AND FEES:
THE PLUMBING CONTRACTOR SHALL PROVIDE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING SCOPE OF WORK.

WARRANTY:
THE PLUMBING CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DAY OF FINAL ACCEPTANCE BY ARCHITECT AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGES, AND RESTORE ANY OTHER EXISTING WOKE DAMAGE IN THE COURSE OF PREPARING DEFECTIVE MATERIALS AND WORKMANSHIP.

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SHEET TITLE
SPECIFICATIONS

PERMIT SET

DATE	01.25.2023
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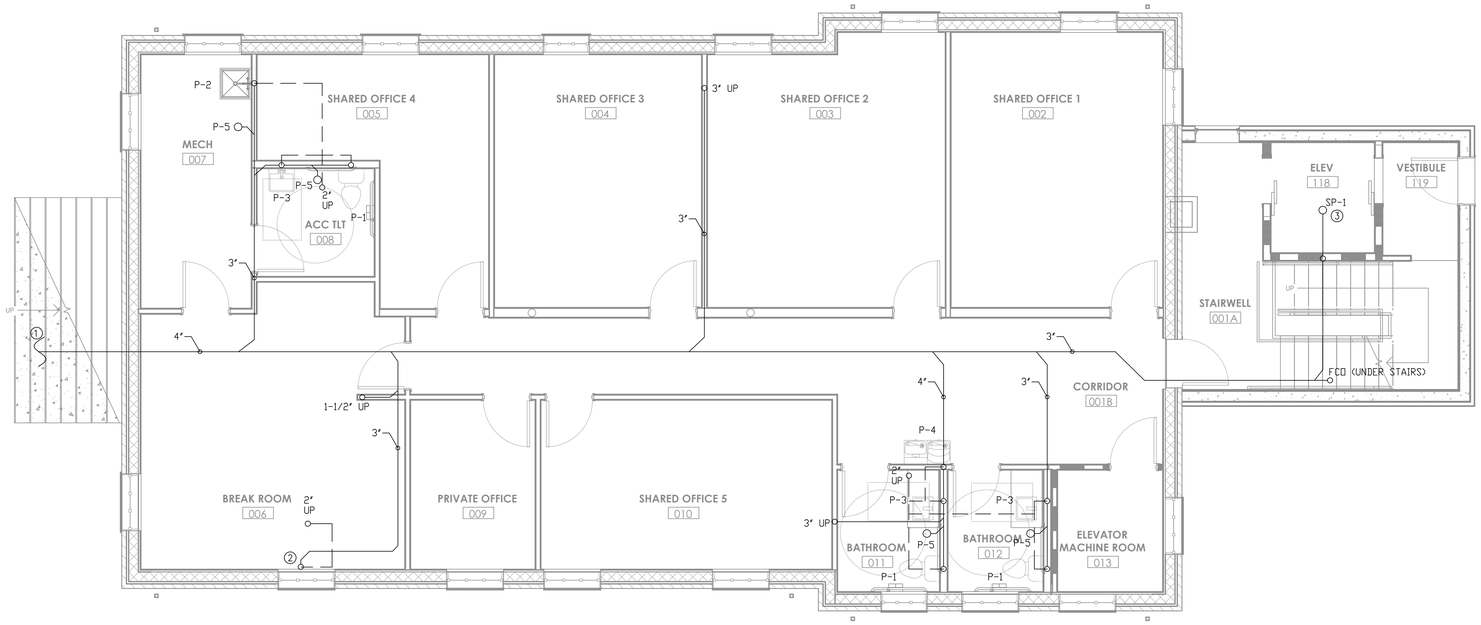
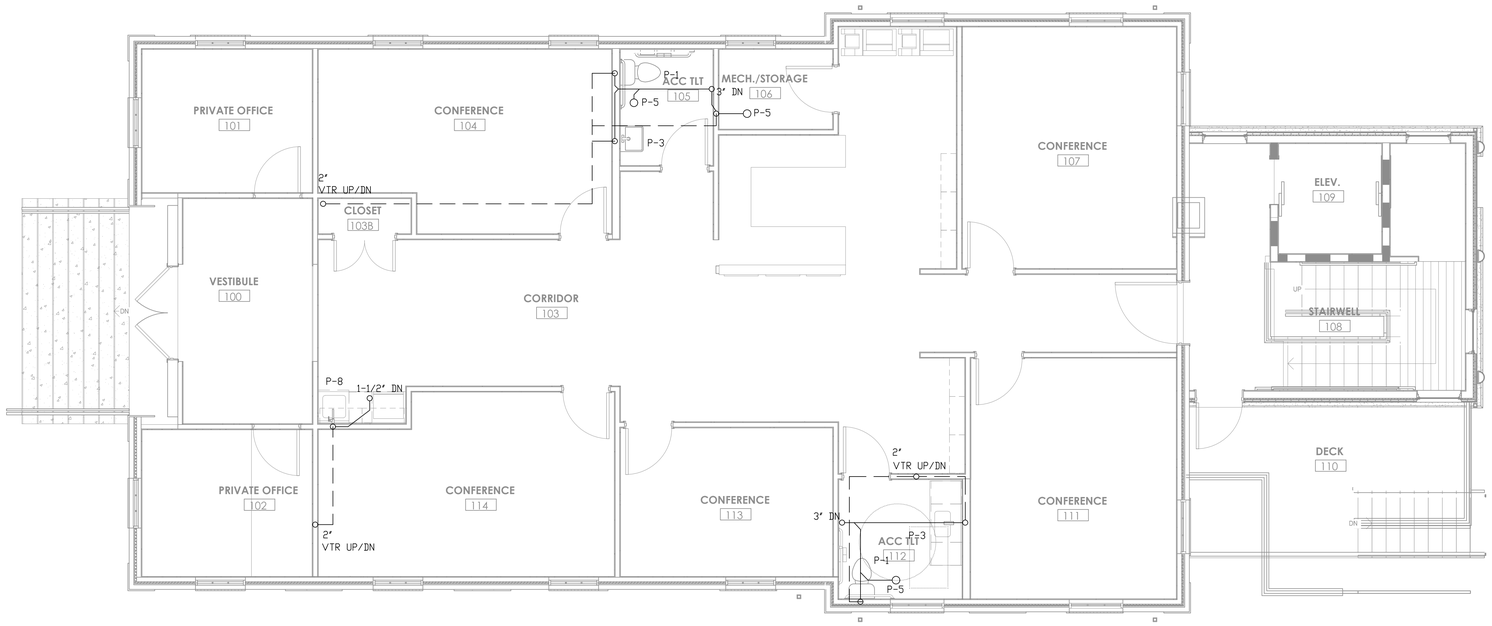
PROJECT NO.	-

SHEET NO.
P001



WASTE/VENT PLAN - BASEMENT

2' 0' 4' 8'



WASTE/VENT PLAN - 1ST FLOOR

2' 0' 4' 8'

GENERAL PLUMBING NOTES

1 PIPING LAYOUT IS STRICTLY DIAGRAMMATIC.
2 CONTRACTOR SHALL COORDINATE ALL TRADES W/ RESPECT TO ROUTING AND CLEARANCES PROVIDING OFFSETS, DROPS, RISES, ETC. AS REQUIRED TO ACCOMMODATE.
3 ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
4 PROVIDE PRECISION PRODUCTS WATER HAMMER ARRESTORS ON ALL WATER CLOSET, SHOWER, LAVATORY, SINK, AND ANY OTHER CONNECTIONS TO QUICK CLOSING VALVES PER PDI RECOMMENDATIONS.
5 PROVIDE TRAP PRIMER (PER DETAILS) FOR ALL FLOOR DRAINS AND FLOOR SINKS. INSTALL PER MFGR'S RECOMMENDATIONS IN ACCESSIBLE LOCATION. ROUTE SOFT COPPER PRIMER LINES WITHOUT JOINTS TO DRAINS.
6 SEAL ALL PIPE PENETRATIONS THRU RATED CONSTRUCTION PER PIPE PENETRATION THRU RATED WALL DETAIL.
7 CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN AND FINAL CONNECTION PER MFGRS' RECOMMENDATIONS FOR ALL EQUIPMENT.
8 PROVIDE REQUIRED CLEARANCE FROM ELECTRICAL PANELS, TRANSFER SWITCHES, ETC. FOR ALL PIPING AND EQUIPMENT PER ELECTRICAL CLEARANCE DETAIL.
9 FOR INDIVIDUAL FIXTURE BRANCH SIZES REFER TO FIXTURE CONNECTION SCHEDULE.
10 CONTRACTOR TO ENSURE FLOORS WILL SLOPE TO FLOOR DRAINS.
11 SANITARY PIPING TO BE INSTALLED WITH A SLOPE OF 1/8" PER FOOT EXCEPT 2". 2" PIPING SANITARY PIPE SHALL HAVE A SLOPE OF 1/4" PER FOOT.

PLUMBIG LEGEND

SANITARY SEWER PIPING
VENT PIPING

KEY NOTES THIS DRAWING

1. CONNECT TO EXISTING SANITARY AT NEAREST POINT. COORDINATE WITH CIVIL. FIELD VERIFY FINAL LOCATION, SIZE, DIRECTION OF FLOW, INVERT AND REQUIREMENTS.
2. PLUMBING IS FOR FUTURE USE.
3. COORDINATE ELEVATOR DRAIN REQUIREMENTS WITH EQUIPMENT VENDOR. PROVIDE SUMP PUMP (SP-1), REFER TO SHEET P201. COORDINATE WITH ELECTRICAL CONTRACTOR.

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SHEET TITLE
WASTE/VENT PLAN

PERMIT SET

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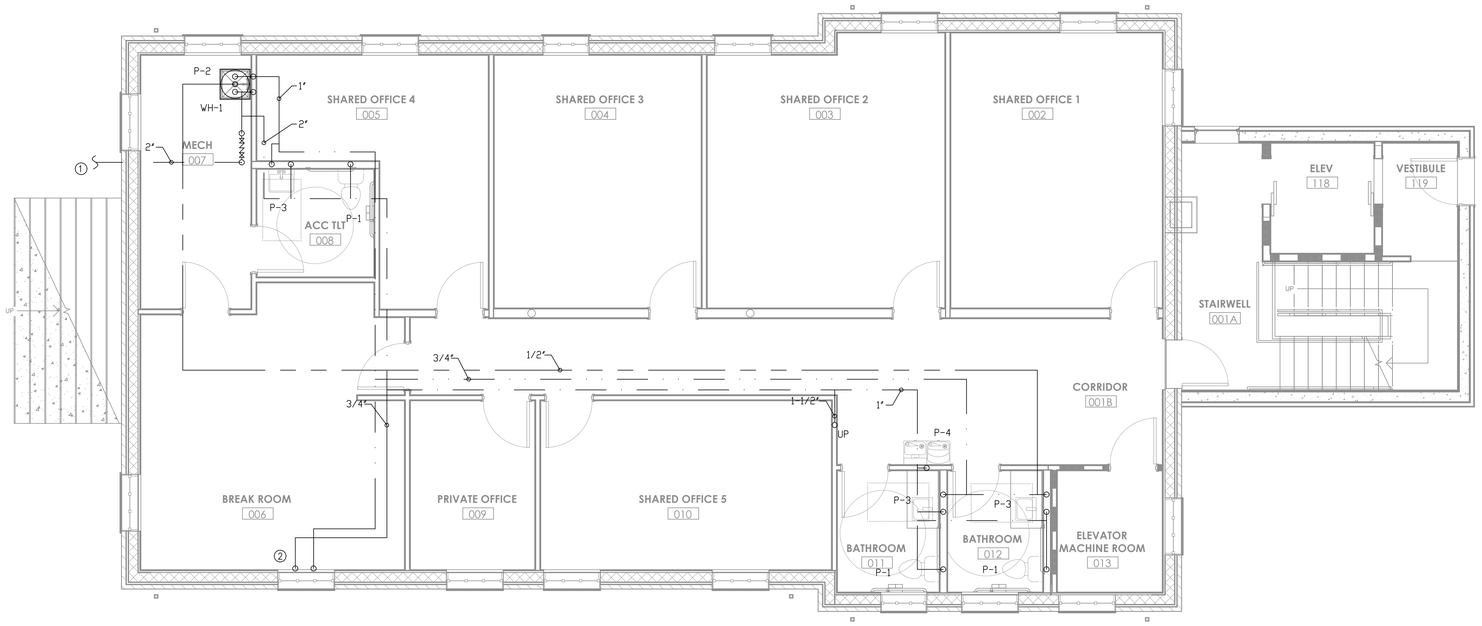
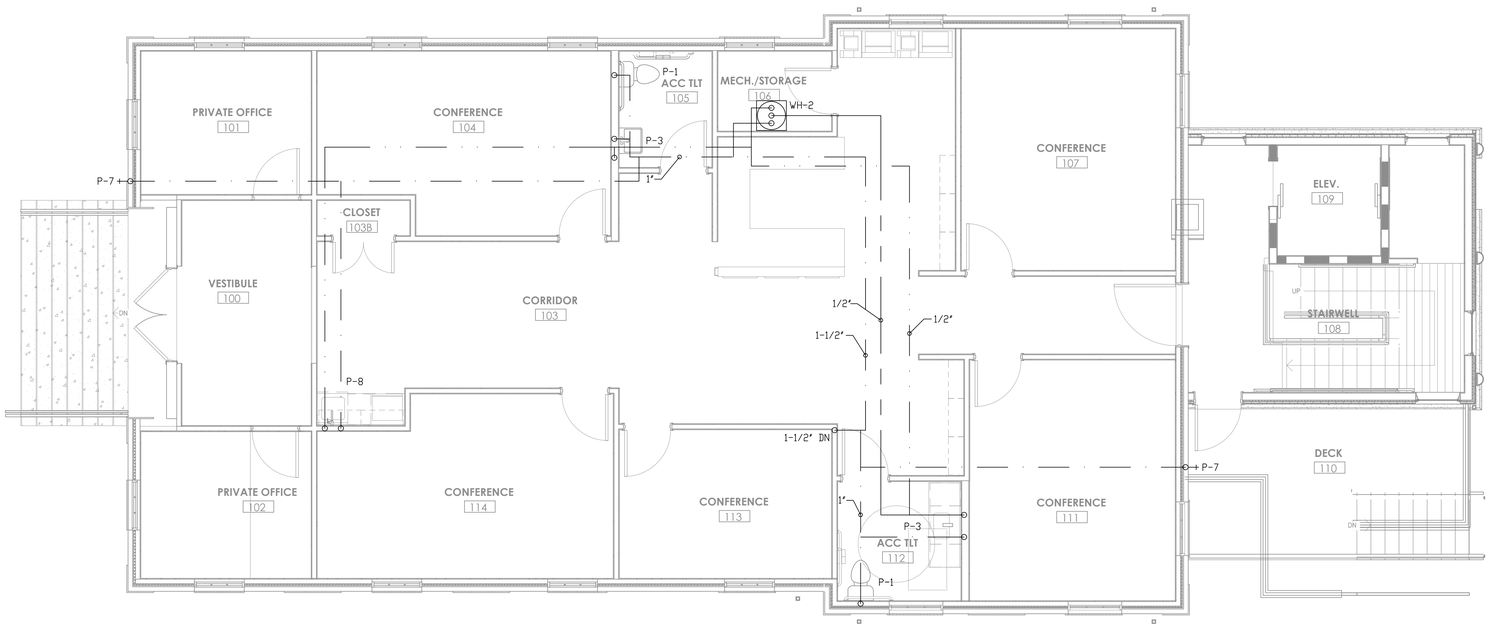
P101



WATER PLAN - BASEMENT

2' 0' 4' 8'



WATER PLAN - 1ST FLOOR

2' 0' 4' 8'

GENERAL PLUMBING NOTES

1 PIPING LAYOUT IS STRICTLY DIAGRAMMATIC.
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PLUMBIG LEGEND

COLD WATER
HOT WATER
HWR
RPBP

KEY NOTES THIS DRAWING

1 CONNECT TO EXISTING DOMESTIC WATER AT NEAREST POINT. COORDINATE WITH CIVIL. FIELD VERIFY FINAL LOCATION, SIZE, DIRECTION OF FLOW AND REQUIREMENTS.
2 PLUMBING IS FOR FUTURE USE.

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WATER PLAN

PERMIT SET

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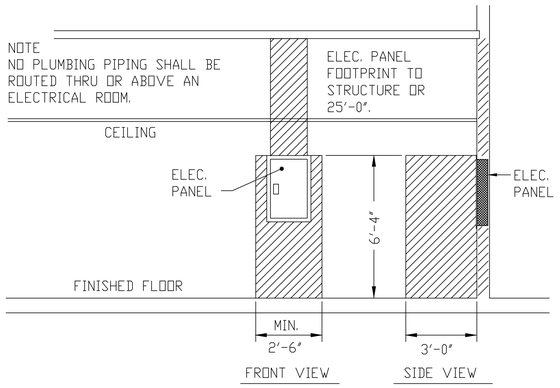
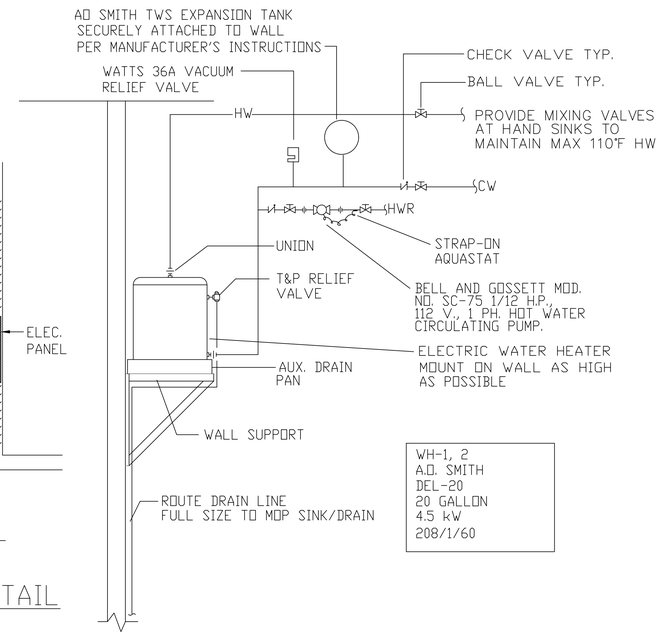
P102



ELECTRIC CLEARANCE DETAIL

NTS



WATER HEATER DETAIL

N. T. S.

PLUMBING FIXTURES AND TRIM

COORDINATE ALL SELECTIONS WITH OWNER/ARCHITECT

P-1 WATER CLOSET (ADA, FV)
FIXTURE OWNER PROVIDED
INSTALLED BY GENERAL CONTRACTOR

P-2 MOP SINK
EL MUSTEE 63M SINK
CHICAGO FAUCET 897-CP WALL MOUNTED FAUCET

P-3 LAVATORY (ADA)
FIXTURE & FAUCET OWNER PROVIDED
INSTALLED BY GENERAL CONTRACTOR

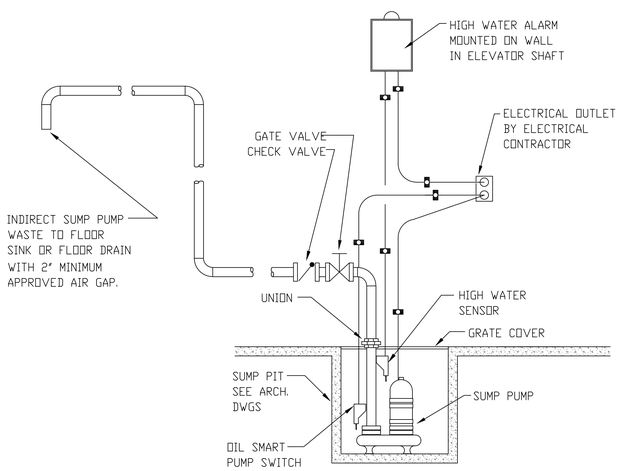
P-4 DRINKING FOUNTAIN (ADA, HI/LO)
ELKAY LMABFTL88WSSK

P-5 FLOOR DRAIN
ZURN ZN-415-P-Y CAST IRON BODY FD
w/TP CONNECTION & SEDIMENT BUCKET
PROVIDE DEEP SEAL P-TRAP

P-6 BREAK ROOM SINK
FUTURE USE

P-7 HOSE BIB
FREEZE PROOF

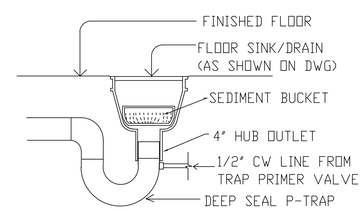
P-8 BAR SINK
FAUCET OWNER PROVIDED
SINK PROVIDED & INSTALLED BY GENERAL CONTRACTOR
THOMPSON TRADERS RIVERA ANTIQUE COPPER II KPU-1715HA
UNDERMOUNT SINK W/COORDINATING GRID DRAIN TDG15-AC



ELEVATOR SUMP PUMP W/OIL SENSOR DETAIL

NTS

SUMP PUMP SCHEDULE	
MARK	SP-1
MANUFACTURER	LIBERTY
MODEL	ELV280
TYPE	SUMP W/OILTECTOR CONTROL
GPM	55
MAX HEAD (FT)	11
MOTOR HP	1/2
VOLTAGE	115/1/60
SERVICE	ELEVATOR



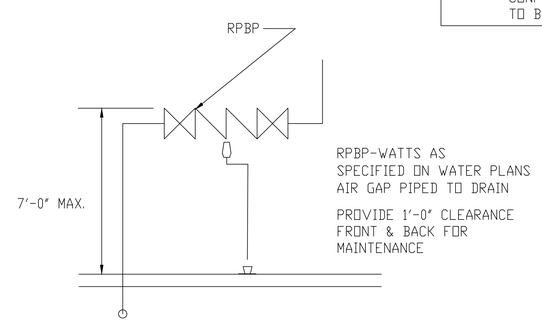
FLOOR SINK/DRAIN DETAIL

NTS

FIXTURE CONNECTION SCHEDULE						
MARK	FIXTURE	CW	HW	TRAP	DRAIN	VENT*
P-1	WATER CLOSET	1	-	-	3	2
P-2	MOP SINK	1/2	1/2	3	3	2
P-3	LAVATORY	1/2	1/2	1¼	1¼	1¼
P-4	DRINKING FOUNTAIN	1/2	-	1¼	1¼	1¼
P-5	FLOOR DRAIN	1/2	-	3	3	2
P-6	SINK	1/2	1/2	1½	1½	1½
P-7	HOSE BIB	3/4				
P-8	BAR SINK	1/2	1/2	1½	1½	1½

* INDIVIDUAL VENT SIZE UNLESS OTHERWISE NOTED.
ALL HORIZONTAL WASTE MINIMUM 2".

CONFIRM ALL CONNECTION SIZES WITH ACTUAL FIXTURES TO BE INSTALLED.



RPBP ARRANGEMENT

NTS

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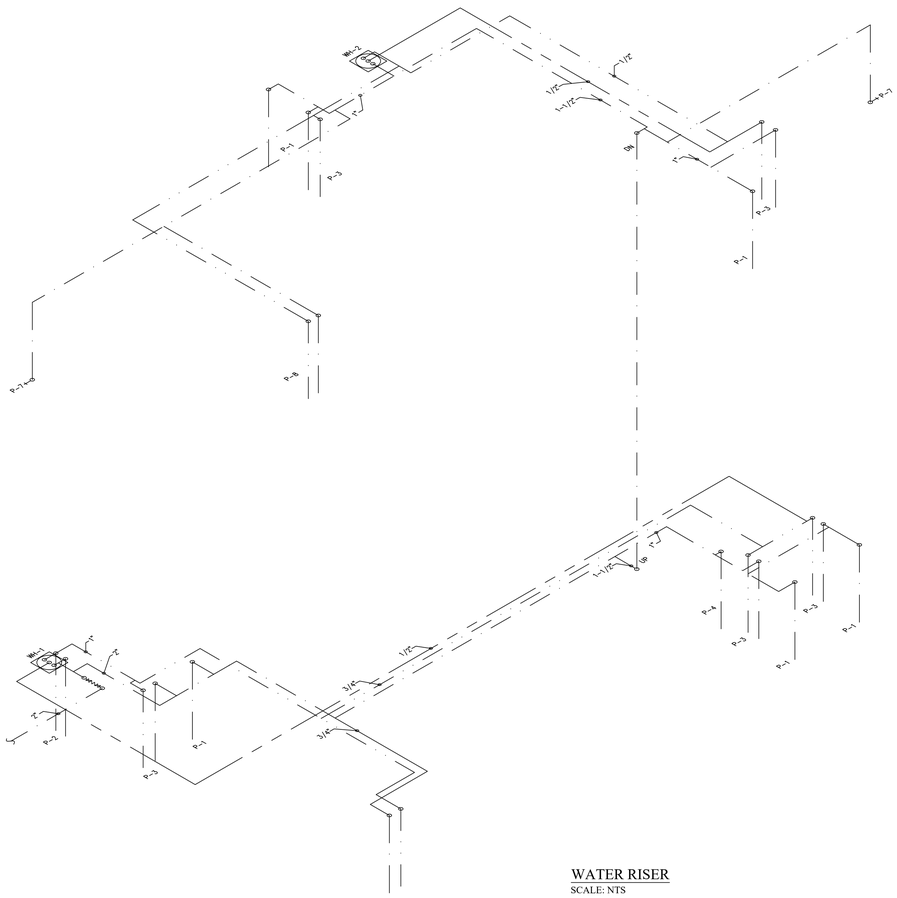
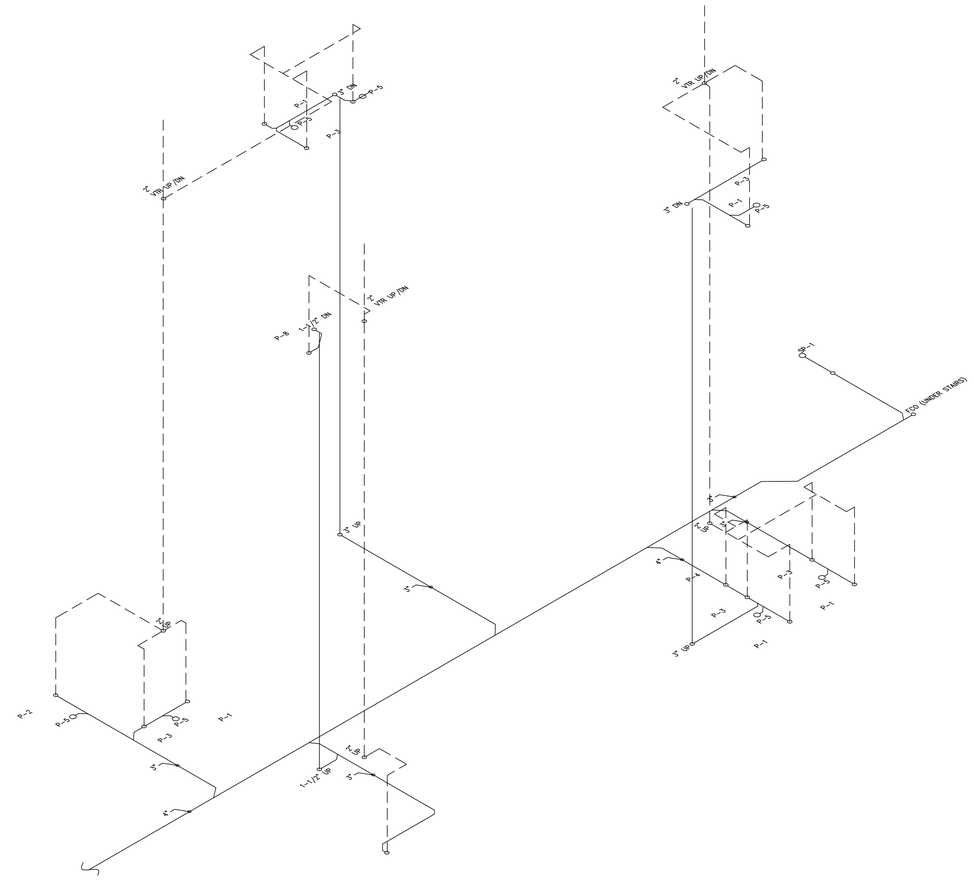
P201



WATER RISER
SCALE: NTS



WASTE/VENT RISER
SCALE: NTS

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P301

HVAC SYMBOLS LEGEND

DN — TYPICAL SUPPLY DUCT UP/DN (UP)

TYPICAL RETURN DUCT UP/DN

TURNING VANES

EF-1 EQUIPMENT DESIGNATION

T THERMOSTAT

C CO2 SENSOR

S SENSOR

SUPPLY AIR ARROW

RETURN/EXAUST AIR ARROW

DUCT HEATER

MANUAL VOLUME DAMPER

BDD BACK DRAFT DAMPER

BD BAROMETRIC DAMPER

DSD DUCT SMOKE DETECTOR

MD MOTORIZED DAMPER

S COMBINATION SMOKE AND FIRE DAMPER

SPIN-IN TAKE-OFF AND VOLUME DAMPER

12 × 8 — INDICATES 12"x8" UNLINED O.D. SHEETMETAL (1ST FIGURE= SIDE SHOWN, 2ND FIGURE= SIDE NOT SHOWN.

12 × 8 — INDICATES 14"x10" O.D. SHEETMETAL W/1" SOUND LINER (U.N.O.) 12"x8" I.D. NET.

FLEXIBLE CONNECTION.

FLEXIBLE DUCT

12" Ø — NECK SIZE

CD-1 | 400 — DESIGN CFM (WHERE APPLICABLE) RETURN AIR = OCCUPIED/UNOCCUPIED.

DIFUSER TYPE REF. SCHEDULE

CEILING DIFFUSER (FLOW ARROW SHOWN INDICATES DIRECTION OF AIR FLOW)

CEILING RETURN/EXHAUST GRILL

1 / M3.1 — DETAIL MARK

HVAC ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
APPROX	APPROXIMATE
BLDG	BUILDING
CLG	CEILING
CONST	CONSTRUCTION
CD	CEILING DIFFUSER
CO2	CARBON DIOXIDE
DEG	DEGREES
DTL	DETAIL
DM	DESIGN MANAGER
DN	DOWN
DWG	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
(E) OR (EX)	EXISTING
EXT	EXTERIOR
EG	EXHAUST GRILL
F & I	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
G	GAS PIPING
GC	GENERAL CONTRACTOR
HR	HOURS
HVAC	HEATING, VENTILATION, AIR CONDITIONING.
LL	LANDLORD
LV	LOW VOLTAGE
MAX	MAXIMUM
MECH	MECHANICAL
MC	MECHANICAL CONTRACTOR
MEP	MECHANICAL, ELECTRICAL AND PLUMBING.
MFG	MANUFACTURER
MIN	MINIMUM
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
PM	PROJECT MANAGER
REF	REFERENCE
RECS	RECOMENDATIONS
REQ'D	REQUIRE (D)
REQS	REQUIREMENTS
REV	REVISION/REVISION
RG	RETURN GRILL
RT	ROOF TOP
SHT	SHEET
SPECS	SPECIFICATIONS
SF	SQUARE FEET
SS	STAINLESS STEEL
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WSHP	WATER SOURCE HEAT PUMP

MECHANICAL SHEET INDEX

M001	SPECIFICATIONS
M002	SCHEDULES
M003	SCHEDULES
M004	COMCHECK
M005	COMCHECK
M101	HVAC PLAN
M201	DETAILS

GENERAL HVAC NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL INTEND OR ARRANGEMENT OF SYSTEMS(S) F & D ALL COMPONENTS NEEDED WHETHER INDICATED OR NOT TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES, AND NOTIFY CM OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE TAKEN FROM ACTUAL BUILDING DIMENSIONS.
3. THE MC SHALL COORDINATE HVAC WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. SEE ARCH. DRAWINGS FOR DIMENSIONED DIFFUSERS LOCATIONS AND MOUNTING HEIGHT WHERE EXPOSED.
4. ALL HVAC DUCT WORK AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURE (CONFIRM) AND NOT FROM OTHER DUCT, PIPING, CONDUITS OR CEILING SUPPORTS.

MECHANICAL SUPPORT

ALL ROOF MOUNTED AND EXTERIOR MECHANICAL UNITS, DUCTWORK, AND ACCESSORIES SHALL BE SECURELY FASTENED TO THE BUILDING'S STRUCTURAL MEMBERS OR CONCRETE PADS. INSTALL HANGARS, STRAPS, TIE DOWNS, SUPPORT ELEMENTS, ETC. REQUIRED TO FIRMLY ATTACH EQUIPMENT TO THE BUILDING OR PADS TO ADEQUATELY COMPENSATE FOR WEIGHT, WIND LOADS, COMPRESSIVE, SHEAR, AND TENSILE FORCES PER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL BUILDING CODES AND DESIGN CONDITIONS. IN THE ABSENCE OF CLEAR DIRECTION OF THIS REQUIREMENT FROM THE MANUFACTURER, NOTIFY THE ENGINEER OF RECORD AND COORDINATE WITH STRUCTURAL ENGINEER AND GENERAL CONTRACTOR FOR REQUIREMENTS.

MECHANICAL SPECIFICATIONS

AIR HANDLING EQUIP. & MATERIALS

AIR HANDLING UNITS:
AIR HANDLING UNITS ARE TO BE PROVIDED PER PLANS. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND LOCALLY ADOPTED CODES.

FILTERS:
PROVIDE THREE (3) SETS OF 2" MERV 6 PLEATED DISPOSABLE FILTERS FOR EACH UNIT. USE ONE SET UNTIL COMPLETION OF CONSTRUCTION. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION AND DELIVER ONE SET OF FILTERS TO OWNER LABELED TO DENOTE THEIR RESPECTIVE AIR HANDLING UNIT. FILTER TO BE FARR, OR SIMILAR.

FIELD VERIFICATION

MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS TO ENSURE SPECIFIED EQUIPMENT, MATERIALS, COMPONENTS, ETC CAN BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND DESIGN INTENT PRIOR TO PURCHASING OF EQUIPMENT. NOTIFY GENERAL CONTRACTOR OF CONDITIONS PRESENT THAT PREVENT SPECIFIED EQUIPMENT FROM BEING PROPERLY INSTALLED.

TESTING, ADJUSTING, BALANCING

MECHANICAL CONTRACTOR, OR AN INDEPENDENT AIR BALANCING CONTRACTOR, SHALL ACCURATELY BALANCE THE AIR AND HYDRONIC (WHERE APPLICABLE) INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATIONS. WHERE QUANTITIES ARE NOT INDICATED BALANCE PER INDUSTRIAL STANDARD TO PROVIDE A PROPERLY WORKING SYSTEM. OPERATE AUTOMATIC CONTROL SYSTEM AND VERIFY SET POINT. A NEBB OR AABE CERTIFIED SUPERVISOR SHALL BE IN CHARGE OF WORK. SUBMIT TWO (2) COPIES OF THE BALANCE REPORT TO THE ENGINEER FOR APPROVAL. INCLUDE A COPY OF THE BALANCE REPORT AS APPROVED BY THE ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT.

CONTROL & OPERATIONS

CONTROL WIRING
THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING IN CONDUIT NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM INCLUDING ALL MODES OF OPERATION AND INTERLOCKS.

THERMOSTAT:
THERMOSTAT(S) SHALL BE HONEYWELL PROGRAMMABLE T-7351F WITH REMOTE ROOM SENSOR(S) T7770 FURNISHED AND INSTALL PER SCHEDULE. ONE THERMOSTAT AND SENSOR SHALL BE PROVIDED FOR EACH AIR HANDLING UNIT. MOUNT THERMOSTAT(S) AND ROOM SENSOR(S) IN LOCATIONS INDICATED ON DRAWINGS MECHANICAL CONTRACTOR SHALL PROVIDE THERMOSTAT AND ROOM SENSOR IDENTIFICATION LABELS WITH ⅛" HIGH BLACK LETTERS PRINTED ON DURABLE CLEAR STICKER LABELS.

1. FOLLOW INSTRUCTIONS IN THE MANUAL THAT COMES WITH THE THERMOSTAT. ADDITIONAL INFORMATION AVAILABLE FROM HONEYWELL INC. HOME AND BUILDING CONTROL DIVISION.
2. SET DIP SWITCHES AND JUMPERS AS FOLLOWS
   A) DEGREES F DISPLAY
   B) 12 HOURS CLOCK
   C) CONTINUOUS FAN OPERATION ON OCCUPIED MODE
   D) DISABLE KEYBOARD PROGRAMING
   E) CUT JUMPER OF UNIT ID HEAT PUMP
3. SET CLOCK AND DATE
4. SET TO DISPLAY CURRENT TEMPERATURE
5. SET OCCUPIED START TIME AT ½ HOUR BEFORE OPENING. SET UNOCCUPIED START TIME AT ½ HOUR AFTER CLOSING. VERIFY HOURS WITH BUILDING MANAGER.
6. SET POINTS SHALL BE AS FOLLOW:

	OCCUPIED	UNOCCUPIED
HEATING	68 deg F	60 deg F
COOLING	73 deg F	80 deg F

7. SET UN-OCCUPIED OVERRIDE AT 3 HOURS.
8. SET OCCUPIED OVERRIDE TO PROVIDE THE FOLLOWING SET POINT OVERRIDES:
   HEATING +2 deg F
   COOLING -2 deg F

DUCTWORK & ACCESSORIES

SHEETMETAL DUCTWORK:
ALL DUCTWORK SHALL BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTWORK IS NOT ALLOWED. ALL EXPOSED DUCTWORK SHALL BE ROUND, FLAT OVAL, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE. AS SHOWN ON HVAC PLAN. ASSEMBLE AND INSTALL IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEM. CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZE WILL BE PERMITTED EXCEPT BY PERMISSION BY THE ENGINEER. EXPOSED SPIRAL DUCT SHALL BE SINGLE WALL, LINED WITH 1" INTERNAL INSULATION. RECTANGULAR DUCT SHALL HAVE 2" OF EXTERNAL INSULATION.

FLEXIBLE DUCTWORK:
FLEXIBLE DUCT WORK SHALL ONLY BE INSTALLED AS SHOWN IN PLANS. FLEXIBLE DUCTWORK SHALL APPROPRIATELY FASTENED TO RIGID BRANCH DUCT AND DIFFUSER. SUPPORT BANDS SHALL BE INSTALLED SO AS TO NOT CRIMP FLEX DUCT. FLEXIBLE DUCTWORK SHALL BE UL 181 LISTED AS CLASS 1 AIR DUCT.

DUCT SEALANT:
SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL SEALED JOINTS. JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC.

SUPPORTS:
PROVIDE HOT DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK.

DAMPERS:
FURNISH AND INSTALL OPPOSED-BLADES MULTI-LEAF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS AND AT POINT OF LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS. PROVIDE UL LISTED FIRE DAMPERS AND/OR COMBINATION FIRE/SMOKE DAMPERS WHERE NEEDED AND IN ACCORDANCE WITH NFPA AND LOCAL CODES. COORDINATE WITH GC AND ELECTRICAL FOR FIRE ALARM INTERFACE AND POWER. PROVIDE CONVENIENTLY LOCATED ACCESS DOOR FOR AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS. WHERE REQUIRED BY CODES OR AHJ F&D MOTORIZED DAMPERS FOR OSA (NOT NECESSARILY SHOWN).

DAMPER AIR LEAKAGE:
MOTORIZED AND NON-MOTORIZED DAMPERS USED FOR OUTSIDE AIR INTAKES, EXHAUST & RETURN OUTLETS (INCLUDING THOSE WITHIN HVAC EQUIPMENT) SHALL MAKE A MINIMUM AIR LEAKAGE VALUE PER ENERGY CODE WHEN TESTED PER AMCA STD 500.

GRILLES, REGISTERS AND DIFFUSERS:
GRILLES, REGISTERS AND DIFFUSERS SHALL BE MANUFACTURED BY TITUS AND SHALL BE FURNISHED AND INSTALL BY A MECHANICAL CONTRACTOR. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR COMPLETE AND PROPER INSTALLATION IN THE TYPE OF WALLS AND CEILINGS USED IN THE PROJECT.

THERMAL INSULATION:
PROVIDE EXTERNAL THERMAL INSULATION WITH AH INTEGRAL VAPOR BARRIER FACING OF SUFFICIENT THICKNESS TO MEET LOCAL, STATE ENERGY CODE, AND AHJ REQUIREMENTS. PROVIDE INSULATION ON EXHAUST AND OUTSIDE AIR DUCTS, AND ON CONCEALED PORTIONS OF SUPPLY AND RETURN AIR DUCTS. DO NOT INSULATE EXPOSED AIR DUCTWORK WITHIN THE SPACE (UNLESS REQUIRED BY AHJ) AND THE PORTIONS OF DUCTWORK THAT ARE INTERNALLY LINED.THERMAL INSULATION TO COMPLY WITH AN NFPA FLAME SPREAD OF 25 OR LESS, AND SMOKE DEVELOPED GREATER THAN 50. INSULATE DUCT WORK ON ROOF PER CODE. IF ANY OF THE ABOVE IS CONTRARY TO THE REQUIREMENTS OF THE AHJ INSTALL PER AHJ.

ACOUSTIC DUCT LINER:
UNLESS OTHERWISE INDICATED ON THE PLANS F&I 1" GLASS FIBER ACOUSTICAL DUCT LINER ON SUPPLY AND RETURN DUCTWORK WITHIN 10 FEET OF THE DISCHARGE AND INTAKE OF AIR HANDLING UNITS. INCREASE DUCT SIZE INDICATED ON PLANS 2" IN EACH DIMENSION TO ACCOMMODATE LINER SHALL BE FASTENED TO DUCT WITH MECHANICAL LINER FASTENERS IN ACCORDANCE WITH SMACNA.

GENERAL SPECIFICATION NOTES

NOTE:
"CONTRACTOR" MEANS "MECHANICAL CONTRACTOR" WHEN REFERENCE ANYWHERE IN THE MECHANICAL CONSTRUCTION DOCUMENTS UNLESS WORK AND EQUIPMENT HAS BEEN COORDINATED BETWEEN THE MECHANICAL AND GENERAL CONTRACTORS TO BE PROVIDED BY OTHERS. "NEEDED", "PROVIDED", AND "INSTALL" MEANS ALL ITEMS CALLED OUT IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL ITEMS NOT CALLED OUT BUT REQUIRED TO MAKE A COMPLETE AND OPERATIONAL SYSTEM.

SCOPE:
THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO PROVIDE A COMPLETE AND FULL OPERATIONAL MECHANICAL SYSTEM. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK.

PERMITS AND FEES:
THE MECHANICAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL SCOPE OF WORK.

WARRANTY:
THE MECHANICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DAY OF FINAL ACCEPTANCE BY ARCHITECT AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGES, AND RESTORE ANY OTHER EXISTING WORK DAMAGE IN THE COURSE OF PREPARING DEFECTIVE MATERIALS AND WORKMANSHIP.

CODES:
PERFORM ALL WORK IN ACCORDANCE WITH THE CURRENT MECHANICAL CODES. STATE AND LOCAL CODES/ORDINANCESAND AHJ. ALL WORK SHALL ALSO BE IN COMPLIANCE WITH BUILDING OWNER'S CRITERIA. IN CASE OF CONFLICT BETWEEN DRAWING SPECIFICATIONS, CODES, ORDINANCES AND AHJ. THE MOST STRINGENT STANDARD (IN THE OPINION OF THE ENGINEER) SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE, AHJ, DRAWINGS AND SPECIFICATIONS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST.

STANDARDS:
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ARI, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, OTHER APPLICABLE AGENCIES AND AHJ AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

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SHEET TITLE
SPECIFICATIONS

PERMIT SET

DATE	01.25.2023
DRAWN BY	MEW
PROJECT NO.	-

SHEET NO.
M001

CEILING EXHAUST FAN SCHEDULE

DESIGNATION	CEF-1 THRU 7
MANUFACTURER	COOK
MODEL #	GC-128
TYPE	CEILING
CFM	80
WATTS	29
SP (IN H20)	0.1
SONES	0.9
VOLTAGE/PHASE/Hz	120/1/60
CONTROL	LIGHTS
REMARKS	ALL

REMARKS

1. PROVIDE WITH BACK DRAFT DAMPER.
2. PROVIDE FAN SPEED CONTROLLER.

SPLIT SYSTEM HEAT PUMP SCHEDULE

DESIGNATION	AC-1, 2
MANUFACTURER	TRANE
MODEL #	TEM4A0C48S41S
NOMINAL TONNAGE	4
WEIGHT (LBS)	145
ORIENTATION	VERTICAL
COOLING	
TOTAL CAPACITY (MBH)	46.8
SENSIBLE CAPACITY (MBH)	34
EADB/EAWB	80/67
OADB	95
EXT. SP (IN H20)	0.5
MIN. SEER @ AHRI	14
CFM	1600
MIN. OUTSIDE AIR	240
HEATING	
CAPACITY (MBH) @ 47°F	46.0
COP	3.4
AUXILIARY HEAT	ELECTRIC
HEATER kW	10.8
ELECTRICAL	
VOLTAGE/PHASE/Hz	208/3/60
MCA	44
MOCP	45
CONDENSING UNIT	
DESIGNATION	CU-1, 2
MODEL #	4TWA4048A3
VOLTAGE	208/3/60
MCA	18
MOCP	30
WEIGHT (LBS)	218
REMARKS	ALL

REMARKS

1. PROVIDE (2) SETS OF 30% FILTERS
2. HEAT PUMP HAIL GUARDS.
3. PROVIDE FACTORY HEAT KIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
4. ROUTE CONDENSATE PER MANUFACTURER'S RECOMMENDATIONS.
5. ROUTE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
6. ROUTE CONDENSATE TO STORM OR DRYWELL PER MANUFACTURER'S INSTRUCTIONS.
7. SUSPEND AIR HANDLING UNITS FROM STRUCTURE WITH VIBRATION ISOLATION HANGERS.

HVAC LEGEND

- 24x24 CEILING SUPPLY DIFFUSER
- LINEAR SLOT DIFFUSER
- 24x24 3-WAY CEILING SUPPLY DIFFUSER
- RG1 — 24x24 CEILING RETURN REGISTER
- RG2 — 12x12 CEILING RETURN REGISTER
- EG1 — 24x24 CEILING EXHAUST GRILLE
- EG2 — 12x12 CEILING EXHAUST GRILLE
- EF — EXHAUST FAN
- IN-LINE EXHAUST
- ELECTRIC DUCT HEATER
- SD — SMOKE DETECTOR
- T — THERMOSTAT
- PS — PULL STATION
- FIRE DAMPER
- FIRE SMOKE DAMPER
- M — MOTORIZED DAMPER
- MANUAL VOLUME DAMPER
- INSULATED FLEXIBLE DUCT: 3 FT MAX.
- TIE TO EXISTING
- EXISTING SUPPLY DIFFUSER

BRANCH DUCT, REGISTER & GRILLE SCHEDULE

CEILING DIFFUSERS					RETURN/EXHAUST REGISTERS & GRILLES				
CFM RANGE	BRANCH DUCT SIZE	ALTERNATE DUCT SIZE	NECK SIZE	FACE SIZE	CFM RANGE	BRANCH DUCT SIZE	ALTERNATE DUCT SIZE	NECK SIZE	FACE SIZE
UP TO 150	6x6	6"ø	6"ø	SEE PLAN	UP TO 80	8x6	6"ø	6"ø	SEE PLAN
151-280	10x6	8"ø	8"ø	SEE PLAN	81-140	10x6	8"ø	8"ø	SEE PLAN
281-325	14x6	10"ø	10"ø	SEE PLAN	141-220	12x6	10"ø	10"ø	SEE PLAN
326-475	22x6	12"ø	12"ø	SEE PLAN	221-300	16x6	10"ø	10"ø	SEE PLAN
476-700	16x10	14"ø	14"ø	SEE PLAN	301-480	26x6 OR 18x8	12"ø	12"ø	SEE PLAN
701-800	18x10	15"ø	15"ø	SEE PLAN	481-700	20x10	14"ø	14"ø	SEE PLAN
					701-950	20x12 OR 26x10	16"ø	16"ø	SEE PLAN
					951-1300	28x10	N/A	24x24	SEE PLAN
					1301-2000	26x14 OR 38x10	N/A	36x24	SEE PLAN
					2001-2800	58x10 OR 26x18	N/A	48x24	SEE PLAN

1. BRANCH DUCT SIZES ARE BY THIS SCHEDULE.
2. SIZES ARE BY THIS SCHEDULE UNLESS NOTED OTHERWISE. DIFFUSERS ARE 4-WAY BLOW UNLESS NOTED AS 3-WAY OR 2-WAY. GO TO NEXT LARGER NECK SIZE FOR 2-WAY OR 3-WAY DIFFUSERS.
3. USE RETURN/EXHAUST REGISTER AND DIFFUSERS WITH OBD IN DRYWALL OR INACCESSIBLE CEILINGS. USE RETURN/EXHAUST GRILLES AND DIFFUSERS WITHOUT OBD IN LAY-IN OR ACCESSIBLE CEILINGS.
4. WHERE GRILLES AND DIFFUSERS WITHOUT OBD ARE USED, INSTALL MVD IN BRANCH DUCT OR USE SPIN-IN FITTING W/MVD IN BRANCH DUCT.
5. RETURN AND EXHAUST GRILLES ARE BASED ON A MAXIMUM OF 450 FPM AND A MIN. OF 72% FREE AREA.
6. ALL LAY-IN DIFFUSERS/RETURN GRILLES SHALL BE 24x24 OR 12x12 FACE SIZE UNLESS OTHERWISE NOTED (SEE HVAC LEGEND).
7. CEILING DIFFUSER CD: TITUS OMNI
8. SIDEWALL DIFFUSER SWS: TITUS
9. CEILING RETURN GRILLE RG: TITUS 50F
10. SIDEWALL RETURN GRILLE SWR: TITUS
11. EXHAUST GRILLE EG: TITUS 50F
12. SIDEWALL EXHAUST REGISTER TITUS
13. O.A. AND EXHAUST LOUVER: LOUVERS & DAMPERS IEL-47
14. LINEAR SLOT DIFFUSER SD: TITUS

*CONFIRM ALL SELECTIONS WITH OWNER/GC

OA UNIT HEATER SCHEDULE

DESIGNATION	OA-1
MANUFACTURER	TRANE
MODEL #	FFCB030
TYPE	HORIZONTAL CONCEALED
CFM	200
ESP (IN H20)	0.4
WEIGHT	81
VOLTAGE/PHASE/Hz	208/3/60
MCA	17.4
MOCP	20
HEAT KW	4.4
HEAT CAPACITY (MBH)	15.4
REMARKS	ALL

REMARKS

1. PROVIDE (2) SETS OF FILTERS
2. 7. SUSPEND AIR HANDLING UNITS FROM STRUCTURE WITH VIBRATION ISOLATION HANGERS

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SHEET TITLE

SCHEDULES

PERMIT SET

DATE 01.25.2023
DRAWN BY MEW
PROJECT NO. -

SHEET NO.

M002

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF
INDOOR UNIT SCHEDULE

	System Tag	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1
	Tag Reference	A1-1	A1-2	A1-3	A1-4	A1-5	A1-6	A1-7	A1-8	A1-9	A1-10	A1-11	A1-12	A1-13	A1-14	A1-15	A1-16
Nominal Data	Room Name								NOT USED	MOT USED							
	Model	TPKFYP006LM140A	TPKFYP004LM140A	TPKFYP004LM140A	TPKFYP004LM140A	TPKFYP004LM140A	TPKFYP004LM140A	TPKFYP004LM140A			TPKFYP004LM140A	TPKFYP006LM140A	TPKFYP004LM140A	TPKFYP004LM140A	TPKFYP004LM140A	TPKFYP006LM140A	TPKFYP006LM140A
	Type	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted			Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted	Wall -Mounted
	Nominal Cooling Capacity (BTU/h)	6,000.0	4,000.0	4,000.0	4,000.0	4,000.0	4,000.0	4,000.0			4,000.0	6,000.0	4,000.0	4,000.0	4,000.0	6,000.0	6,000.0
	Nominal Heating Capacity (BTU/h)	6,700.0	4,500.0	4,500.0	4,500.0	4,500.0	4,500.0	4,500.0			4,500.0	6,700.0	4,500.0	4,500.0	4,500.0	6,700.0	6,700.0
Design Conditions	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0			80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0
	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	70.0	70.0	70.0	70.0	70.0	70.0	70.0			70.0	70.0	70.0	70.0	70.0	70.0	70.0
	Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND			FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND			FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2			1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2
Performance Data	Cooling Total Capacity (BTU/h)	5,653.2	3,768.8	3,768.8	3,768.8	3,768.8	3,768.8	3,768.8			3,768.8	5,653.2	3,768.8	3,768.8	3,768.8	5,653.2	5,653.2
	Cooling Sensible Capacity (BTU/h)	4,113.0	2,809.6	2,809.6	2,809.6	2,809.6	2,809.6	2,809.6			2,809.6	4,113.0	2,809.6	2,809.6	2,809.6	4,113.0	4,113.0
	Heating Capacity (BTU/h)	6,527.3	4,384.0	4,384.0	4,384.0	4,384.0	4,384.0	4,384.0			4,384.0	6,527.3	4,384.0	4,384.0	4,384.0	6,527.3	6,527.3
	Estimated Cooling Coil LAT (°F) / [LWT]	59.7	62.1	62.1	62.1	62.1	62.1	62.1			62.1	59.7	62.1	62.1	62.1	59.7	59.7
	Estimated Heating Coil LAT (°F) / [LWT]	101.7	97.5	97.5	97.5	97.5	97.5	97.5			97.5	101.7	97.5	97.5	97.5	101.7	101.7
Fan / Water Flow Data	Fan Speed Setting	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH			HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
	Peak Fan Airflow (cfm) / [Design gpm]	191	148	148	148	148	148	148			148	191	148	148	148	191	191
	Max Fan ESP Setting 208V/230V (IN WG)																
	Sound Pressure Per Fan Speed 208V/230V (dBA)	22-26-29-31	22-24-26-28	22-24-26-28	22-24-26-28	22-24-26-28	22-24-26-28	22-24-26-28			22-24-26-28	22-26-29-31	22-24-26-28	22-24-26-28	22-24-26-28	22-26-29-31	22-26-29-31
Electrical Data	Voltage / Phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase			208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase
	Power Cooling 208V/230V (kW)	0.02	0.02	0.02	0.02	0.02	0.02	0.02			0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Power Heating 208V/230V (kW)	0.01	0.01	0.01	0.01	0.01	0.01	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Electrical MCA/MFS	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15			0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15	0.24/0.24/15
	Condensate Removal Rate (gal/hr)	0.26	0.10	0.10	0.10	0.10	0.10	0.10			0.10	0.26	0.10	0.10	0.10	0.26	0.26
	Actual Port Assignments																
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6			1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.
It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6 It is recommended to always base heating corrected capacity on full demand.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF
OUTDOOR UNIT SCHEDULE

	System Tag	System 1
	Tag Reference	ODU-1
Nominal Data	M-NET Address	51
	Model Number	TURYE0723AN40AN
	Modules	P72
	Nominal Cooling Capacity (BTU/h)	72,000.0
	Nominal Heating Capacity (BTU/h)	80,000.0
	Cooling Efficiency IEER/EER [SEER]	27.85 / 14.4
	Heating COP @ 47°F [HSPF]	4.09
	Nom System Connected Capacity (% of NOM)	100.0%
Design Conditions	Design Cooling Outdoor Temp DB (°F)	95.0
	Design Heating Outdoor Temp WB (°F)	43.0
	Max Pipe Length from BC or 1st Joint (feet)	80.0
	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	5/8 / 3/4
Performance Data	Corrected Cooling Total Capacity (BTU/h)	67,838.0
	Corrected Heating Capacity (BTU/h)	78,717.7
Compressor Data	Compressor Type	SCROLL
	Compressor Quantity	1
	Preliminary Added Field Charge (See Note 5)	24.5
Electrical Data	Voltage / Phase	208/230V / 3-phase 3-wire
	MCA 208/230 or [460V]	23/21
	Recommended Fuse Size (RFS)	35/30
	MOCP	35/30
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
6 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations

VRF HEAT RECOVERY BRANCH CIRCUIT
CONTROLLER

	System Tag	System 1
	Tag Reference	BC-A1
Nominal Data	M-NET Address	52
	Model Number	TCMBG1016SJ11N4
	Type (double / Main / Sub)	Single
	Number of Ports	16
	Connected Capacity to BC	72,000.0
Electrical Data	Voltage / Phase	208/230V / 1-phase
	Power Cooling 208V/230V (kW)	0.243/0.314
	Power Heating 208V/230V (kW)	0.122/0.157
	MCA 208/230	
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4

Notes & Options:
1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
2 For sub BC controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.
3 Provide Refrigeration Ball Valve-Braze/Schrader/Insulated - 3/8" size
4 Provide Refrigeration Ball Valve-Braze/Schrader/Insulated - 5/8" size

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SHEET TITLE
SCHEDULES

PERMIT SET
DATE 01.25.2023
DRAWN BY MEW
PROJECT NO. -

SHEET NO.
M003

COM*check* Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Rudy Title & Closing
Location:	Nashville, Tennessee
Climate Zone:	4a
Project Type:	Alteration

Construction Site: Nashville, TN
Owner/Agent:
Designer/Contractor: Nashville, TN

Mechanical Systems List

Quantity — System Type & Description

2 AC-1,2 (Single Zone):
Single Package Vertical Unit Heat Pump
Heating Mode: Capacity = 46 kBtu/h,
Proposed Efficiency = 3.40 COP, Required Efficiency = 3.00 COP
Cooling Mode: Capacity = 47 kBtu/h,
Proposed Efficiency = 12.00 EER, Required Efficiency: 9.00 EER
Fan System: Unspecified

1 ODU-1 (Single Zone):
VRF Condensing Unit, Air Cooled Heat Pump
Heating Mode: Capacity = 80 kBtu/h,
No minimum efficiency requirement applies
Cooling Mode: Capacity = 72 kBtu/h,
No minimum efficiency requirement applies
Fan System: None

4 A1-1, 11, 15, 16 (Single Zone):
Cooling: 1 each - VRF Zone Fan Unit, Capacity = 6 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment
No minimum efficiency requirement applies
Fan System: Unspecified

12 A1-2 thru 10, 12-14 (Single Zone):
Cooling: 1 each - VRF Zone Fan Unit, Capacity = 4 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment
No minimum efficiency requirement applies
Fan System: Unspecified

1 OA-1 (Single Zone):
Heating: 1 each - Unit Heater, Electric, Capacity = 15 kBtu/h
No minimum efficiency requirement applies
Fan System: Unspecified

2 WH-1,2:
Gas Storage Water Heater, Capacity: 20 gallons, Input Rating: 65 kBtu/h w/ Circulation Pump
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Matt Wuerth, PE
Name - Title

Signature

01/25/2023
Date

COM*check* Software Version 4.1.5.5

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 - C403.12.3 [FO9][1]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.6.3 [PL7][1]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][1]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][1]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.11.3 [ME61][1]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.11.3 [ME61][1]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.11.3 [ME61][1]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.11.3 [ME61][1]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.8.1 [ME65][1]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.1 [ME65][1]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.1 [ME65][1]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.1 [ME65][1]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.1 [ME65][1]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
C403.8.3 [ME117][1]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][1]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.3 [ME117][1]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][1]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.8.3 [ME117][1]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.12.1 [ME71][1]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.2.3 [ME55][1]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.7.2 [ME115][1]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.7.6 [ME141][1]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.7.5 [ME116][1]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.1 C403.11.2 [ME60][1]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.4.3.3.2 [ME121][1]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.4.3.3.2 [ME121][1]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.2.1 [ME111][2]	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C408.2.2.1 [ME53][1]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123][1]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26][1]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C405.7 [EL27][1]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28][1]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C405.9 [EL29][1]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][1]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.2 [FI27][1]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.1 [FI42][1]	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.2 [FI38][1]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.3 [FI20][1]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2 [FI39][1]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.2.1, C403.2.4.2.2 [FI40][1]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C404.3 [FI11][1]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☑Not Applicable	**Exception:** Requirement does not apply.
C404.4 [FI25][1]	All piping insulated in accordance with section details and Table C403.11.3.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1 [FI12][1]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.1 [FI31][1]	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI7][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.3 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5.4 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☑Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

RUDY TITLE & CLOSING

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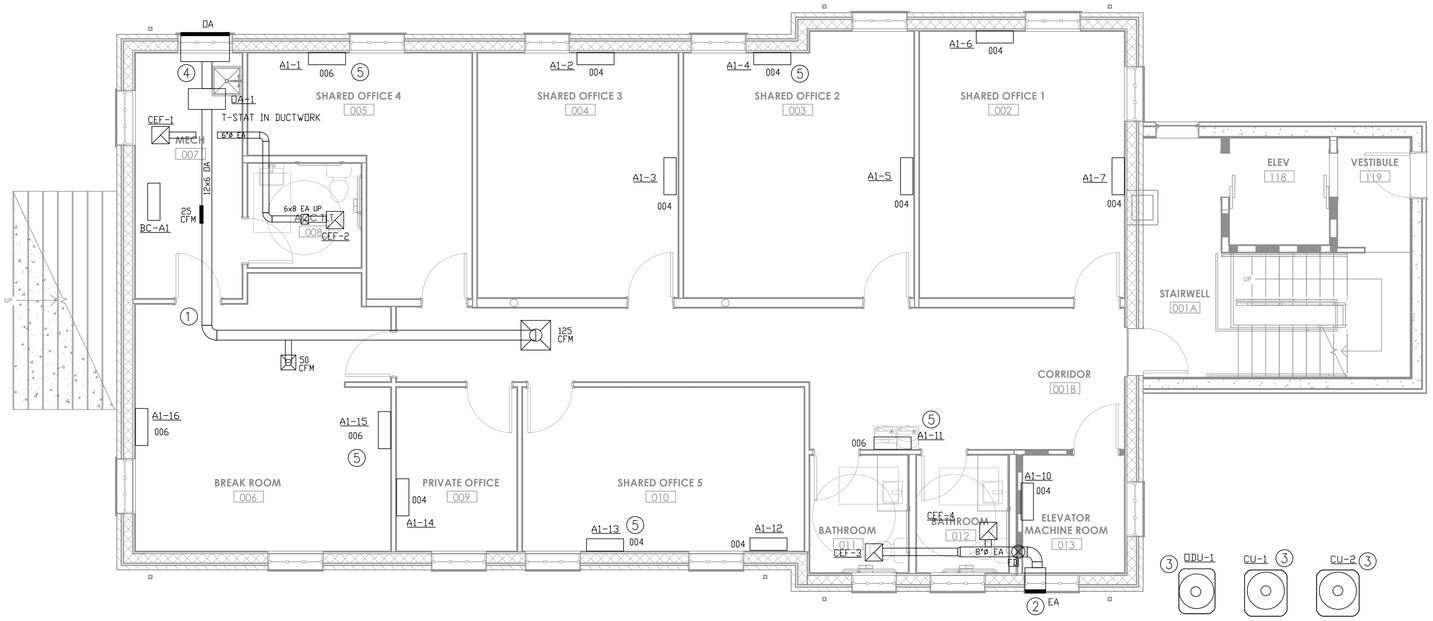
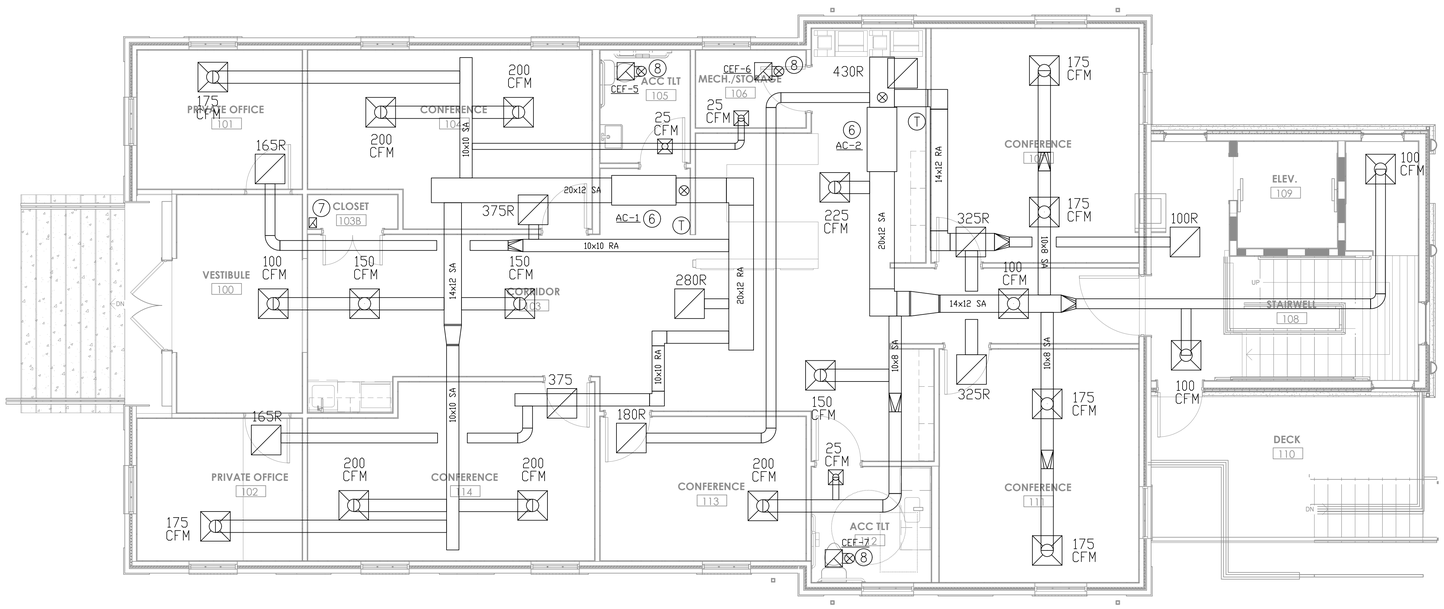


HVAC FLOOR PLAN - BASEMENT

2' 0' 4' 8'



HVAC FLOOR PLAN - 1ST FLOOR

2' 0' 4' 8'

HVAC GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC.
2. ALL LAY-IN DIFFUSERS AND RETURN GRILLES SHALL BE 24x24 OR 12x12 FULL FACE UNLESS NOTED OTHERWISE.
3. FOR BRANCH DUCT SIZES AND DIFFUSER/GRILLE NECK SIZES REFER TO SCHEDULE SHEET.
4. ALL BRANCH DUCTS SHALL BE TAPPED FROM SIDES OF MAIN DUCT PER DETAIL SHEET.
5. COORDINATE DIFFUSERS AND RETURN GRILLES WITH LIGHT AND ARCH. GRID.
6. ALL DUCT DIMENSIONS NOTED INSIDE CLEAR. ALL SUPPLY/RETURN DUCTWORK SHALL BE SEALED WITH WATER BASED DUCT SEALER.
7. ALL SUPPLY AND RETURN DUCTWORK SHALL HAVE EXTERNAL INSULATION WITH A MINIMUM R VALUE OF 6.5. SEE SPECIFICATIONS FOR DETAILS.
8. PROVIDE EXTRACTOR AT ALL BRANCH TAKEOFFS.
9. PROVIDE SPLITTER DAMPER AT ALL SPLITS OFF A MAIN.
10. PROVIDE VOLUME DAMPERS ON:

    ALL BRANCH TAKEOFFS.
    EACH MAIN AFTER A SPLIT.
    ALL BRANCHES INTO AN AIR DEVICE.
    R.A. AND O.A. DUCTS AT RETURN PLENUMS.
11. PROVIDE DOUBLE ACOUSTIC TURNING VANES AT ALL 90° TURNS.
12. PROVIDE FLEX CONNECTION OF ALL DUCTWORK TO ALL MECHANICAL UNITS.
13. LOCATE ALL MECHANICAL DEVICES ON ROOF A MINIMUM OF 10'-0" FROM THE EDGE OF ROOF. MAINTAIN 10'-0" CLEAR EXHAUST, FLUE OUTLET, OR PLUMBING VENT.
14. COORDINATE DUCTS AND/OR PIPING TO PROVIDE REQUIRED CLEARANCES IN ACCORDANCE WITH NFPA-70 FOR ALL SWITCHBOARDS, ELECTRICAL PANELS, TRANSFER SWITCHES, ETC.
15. DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN ALL SUPPLY AND RETURN DUCTWORK OF ALL AIR HANDLING UNITS PER MANUFACTURER'S INSTRUCTIONS. INSTALL WHERE AIR FLOW IS LAMINAR AS POSSIBLE.
16. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE SYSTEMS AND VERIFY DIMENSION CONDITIONS PRIOR TO INSTALLATION.
17. UPON ACTIVATION OF GENERAL FIRE ALARM, ALL MECHANICAL UNITS SHALL BE SHUT DOWN UNTIL ALARM IS RESET. SEE ELECTRICAL PLANS FOR DETAILS.
18. ROUTE CONDENSATE DRAINS TO NEAREST ROOF DRAIN OR LOCATION APPROVED BY AHJ.
19. INSULATED FLEXIBLE DUCT TO BE A MAXIMUM OF 5'-0" IN LENGTH.
20. COORDINATE WITH ARCHITECTURAL FLOOR PLAN FOR EXACT FIRE/ SMOKE RATINGS, INSTALL APPROPRIATE DAMPERS AS REQ'D BY CODES.
21. COORDINATE FINAL DIFFUSER/GRILLE LOCATIONS WITH LIGHTING PLAN AND ARCHITECTURAL RCP

KEY NOTES THIS DRAWING

1. COORDINATE FINAL DUCT ROUTING, LOCATION, AND SOFFIT REQUIREMENTS WITH ARCHITECT/GENERAL CONTRACTOR.
2. EXHAUST DUCT TO PLENUM BOX AND LOUVER SET IN WINDOW. COORDINATE SELECTION AND FINISH WITH ARCHITECT.
3. COORDINATE FINAL LOCATION OF PAD MOUNTED CONDENSERS WITH GENERAL CONTRACTOR/ARCHITECT, ENSURING REQUIRED MANUFACTURER CLEARANCES ARE MAINTAINED.
4. OUTSIDE AIR DUCT TO PLENUM BOX. LOUVER LOCATED WITHIN EXISTING WINDOW OPENING. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5. GENERAL CONTRACTOR TO PROVIDE AND INSTALL AESTHETIC COVERING FOR ALL WALL HUNG UNITS, ENSURING PROPER FUNCTION IS MAINTAINED. COORDINATE WITH ARCHITECT. (TYPICAL)
6. AIR HANDLER IN ATTIC. COORDINATE FINAL LOCATION AND ACCESS PANEL WITH ARCHITECT. ENSURE REQUIRED MANUFACTURER CLEARANCES ARE MAINTAINED. ROUTE 8" OUTSIDE AIR DUCT WITH MANUAL VOLUME DAMPER UP THROUGH ROOF. FIELD VERIFY FINAL LOCATION AND REQUIREMENTS.
7. 6x8 EXHAUST AIR DUCT UP FROM BELOW, ROUTED IN CHASE, UP THROUGH ROOF TO STORM CAP.
8. 6"ø EXHAUST DUCT UP THROUGH ROOF TO STORM CAP.

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HVAC FLOOR PLAN

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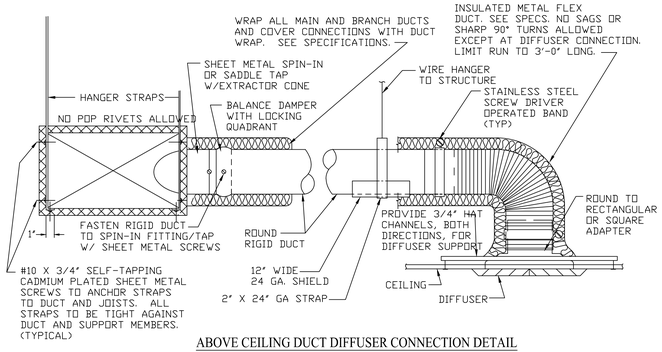
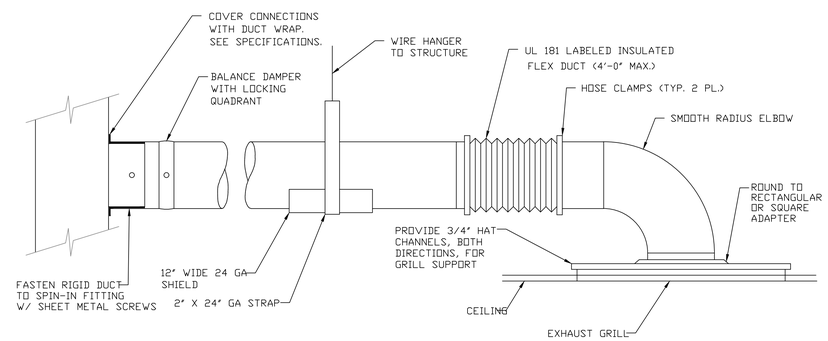


ABOVE CEILING DUCT DIFFUSER CONNECTION DETAIL

NTS

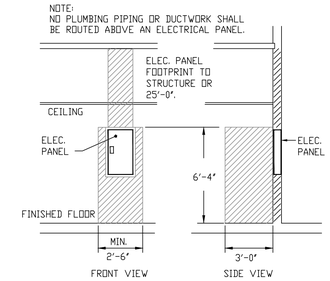
** NOTE:
EXPOSED DUCTS SHALL BE DOUBLE WALLED WITH SIDEWALL DIFFUSERS.



EXHAUST CONNECTION DETAIL

NTS

NOTE:
NO PLUMBING PIPING OR DUCTWORK SHALL BE ROUTED ABOVE AN ELECTRICAL PANEL.



ELECTRICAL CLEARANCE

NTS

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M201

CIRCUIT WIRING

RP-1	HOME RUN TO PANEL "RP" INDICATES PANEL NO. & 1 INDICATES CIRCUIT NO..
	BRANCH CIRCUIT WIRING CONSISTING OF THHN COPPER CONDUCTORS RUN IN CONCEALED RACEWAY. IN AREAS WITH NO CEILING RUN OVERHEAD CONDUCTORS IN EXPOSED EMT. EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN ALL CONDUIT/CABLE RUNS NOTE: CONTRACTOR MAY RUN MC CABLE (WHERE APPROVED BY CODE AND BY OWNER) IN WALLS & ABOVE CEILINGS IN FINISHED AREAS ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITY OF CONDUCTORS IN RACEWAY.
	BRANCH CIRCUIT WIRING CONSISTING OF CONDUCTORS RUN IN FLEXIBLE METAL CONDUIT TO LIGHTING FIXTURE OR MOTORIZED EQUIPMENT. RUN IN "SEALTITE" FOR ALL PUMP CONNECTIONS. 6'-0" MAX. UNSUPPORTED LENGTH FOR LIGHTING FIXTURES AND 30" FOR OTHER EQUIPMENT. THIS SYMBOL COULD ALSO REPRESENT A FLEXIBLE CORD FINAL CONNECTION TO LIGHT FIXTURES.

WIRING DEVICES

(ALL WIRING DEVICES SHALL BE AS SPECIFIED OR APPROVED EQUAL, SHOP DRAWINGS ARE REQUIRED FOR ALL DEVICES)
(COLOR OF WIRING DEVICES AS PER ARCHITECT)

	DUPLEX RECEPTACLE NEMA 5-20R; HUBBELL #HBL5362I (IVORY) IN SINGLE GANG BOX
	DOUBLE DUPLEX RECEPTACLE NEMA 5-20R (2); HUBBELL #HBL5362I (IVORY) IN TWO GANG BOX
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, NEMA 5-20R; HUBBELL GF5352IA (IVORY) IN SINGLE GANG BOX.
GFI WP	GFCI RECEPTACLE, NEMA 5-20R; HUBBELL #GF5352GYA (GRAY) , WITH CARLON #E9UVCRN WEATHERPROOF COVER PLATE. (UL LISTED FOR "WET LOCATIONS" WHILE IN USE.)
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION PER DRAWINGS OR AS REQUIRED TO MATCH EQUIPMENT NAMEPLATE REQUIREMENTS.
IG	ISOLATED GROUND, DUPLEX RECEPTACLE NEMA 5-20R; HUBBELL #IG5362 (ORANGE) IN SINGLE GANG BOX
IG	ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE NEMA 5-20R (2); HUBBELL #IG5362 (ORANGE) IN 2 GANG BOX
IG,TVSS	ISOLATED GROUND, SURGE SUPPRESSION, DUPLEX RECEPTACLE NEMA 5-20R; HUBBELL #IG5362SA (BLUE) IN SINGLE GANG BOX
IG,TVSS	ISOLATED GROUND, SURGE SUPPRESSION, DOUBLE DUPLEX RECEPTACLE NEMA 5-20R, (2); HUBBELL #IG5362SA (BLUE) IN 2 GANG BOX
H	HOSPITAL GRADE, DUPLEX RECEPTACLE NEMA 5-20R; HUBBELL #HBL8300 (BROWN) IN SINGLE GANG BOX
H GFI	HOSPITAL GRADE, GFCI, DUPLEX RECEPTACLE, NEMA 5-20R; HUBBELL GF8300HGY (GRAY) IN SINGLE GANG BOX
H IG,TVSS	HOSPITAL GRADE, ISOLATED GROUND, SURGE SUPPRESSION, DUPLEX RECEPTACLE NEMA 5-20R HUBBELL #IG8262RSA (RED) IN SINGLE GANG BOX
	FLUSH, SINGLE-GANG, FLOOR BOX (W/DUPLEX RECEPTACLE) - RECEPTACLE: HBL5362 FLOOR BOX: B243641; COVER: S3825; CARPET FLANGE: SB3083 (IF REQUIRED)
	FLUSH, 2-GANG, FLOOR BOX (W/DUPLEX RECEPTACLE AND TELE/DATA OUTLET) - REC: HBL5362 FLOOR BOX: B423341; COVER: S3825 (POWER) & S2625 (DATA); CARPET FLANGE: SB3084 (IF REQUIRED)
	FLUSH, 3-GANG, FLOOR BOX (W/2-DUPLEX RECEPTACLES AND TELE/DATA OUTLET) - REC: HBL5362 FLOOR BOX: B433361; COVER: S3825 (POWER) & S2625 (DATA); CARPET FLANGE: SB3085 (IF REQUIRED)
JJ	FLUSH, 2-GANG, FLOOR BOX (FOR POWER AND TELE/DATA BASE FEEDS) - FLOOR BOX: B423341; COVER: S2425 (POWER) & S2625 (DATA); CARPET FLANGE: SB3084 (IF REQUIRED)
PT	FIRE RATED POKE-THRU, W/RECEPTACLE AND TELE/DATA OUTLETS, ONE-PIECE UNIT; HUBBELL #S1PT SERIES (GRAY); DETERMINE EXACT REQUIREMENTS FOR POKE-THRU & SUBPLATE W/ OWNER
FF PT	FIRE RATED POKE-THRU, FURNITURE FEED (3-SERVICE), ONE-PIECE UNIT; HUBBELL #S1PTFFGY (GRAY)
J BFM	BASE FEED MODULE TO PRE-WIRED FURNITURE. PROVIDE J. BOX IN WALL FOR FLEXIBLE CONDUIT CONNECTION TO FURNITURE.
$	SINGLE POLE TOGGLE SWITCH; HUBBELL #1221, 20A-120/277V IN SINGLE GANG BOX
$3	THREE-WAY TOGGLE SWITCH; HUBBELL #1223, 20A-120/277V IN SINGLE GANG BOX
$4	FOUR-WAY TOGGLE SWITCH; HUBBELL #HBL1224, 20A-120/277V IN SINGLE GANG BOX
$M	SINGLE POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL7832D, 30A, IN SINGLE GANG BOX
$M2	TWO POLE MOTOR RATED SWITCH; #HBL1392D, 30A, W/ ENCLOSURE
$M3	THREE POLE MOTOR RATED SWITCH; HUBBELL #HBL1379D, 30A, W/ ENCLOSURE
$M WP	SINGLE POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL7832D, 30A IN SINGLE GANG WEATHERPROOF BOX WITH WEATHERPROOF COVER
$PL	SINGLE POLE PILOT LIGHT TOGGLE SWITCH; HUBBELL #HBL122IILCN, 20A-120/277V IN SINGLE GANG BOX
$D	SINGLE POLE DIMMER SWITCH IN SINGLE GANG BOX; INCANDESCENT- LUTRON #NTF-600-IV (600W, 120V), #NTF-1000-IV (1000W, 120V) #NTF-1500-IV (1500W, 120V), #NTF-2000-IV (1950W, 120V) FLUORESCENT - LUTRON #NTF-10-IV (1920W, 120V), #NTF-10-277-IV (2200W, 277V) ELECTRONIC LOW VOLTAGE - LUTRON #NTELV-300-IV (300W, 120V), #NTELV-600-IV (600W, 120V) MAGNETIC LOW VOLTAGE - LUTRON #NTLV-600-IV (450W, 120V), #NTLV-1000-IV (800W, 120V) FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GANGING AND DERATING
$D3	THREE-WAY DIMMER SWITCH IN SINGLE GANG BOX; INCANDESCENT- LUTRON #NT-603P-IV (600W, 120V), #NT-1003P-IV (1000W, 120V) #NT-1503P-IV (1500W, 120V) FLUORESCENT - LUTRON #NTF-103P-IV (1920W, 120V), #NTF-103P-277-IV (2200W, 277V) FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GANGING AND DERATING
$OFF	OVERRIDE "OFF" SWITCH; HUBBELL #1221, 20A-120/277V IN SINGLE GANG BOX PERMANENTLY LABEL "OCCUPANCY SENSOR OVERRIDE SWITCH"
MS	MOTION SENSOR SWITCH; WALL-MOUNTED; HUBBELL #AD2000I1 (800W INCAND; 1000W FLUOR, 120V; 1800W FLUOR, 277V); PASSIVE INFRARED & ULTRASONIC, 1000 SQ FT COVERAGE
MS2	GFCI TEST/TRIP UNIT ONLY (WITHOUT RECEPTACLE); HUBBELL #GFBF20ILA (IVORY) IN SINGLE GANG BOX MOTION SENSOR SWITCH; WALL-MOUNTED; DUAL CIRCUIT W/ DIMMING CAPABILITY HUBBELL OR EQUAL
GFI	LOCATE AT A READILY ACCESSIBLE LOCATION & AHEAD OF PROTECTED DEVICE; LABEL ACCORDINGLY

LIGHTING FIXTURES (ALL FIXTURES ARE SPECIFIED BY OTHERS NOT TO EXCEED DESIGN CRITERIA BELOW)

	TYPE A1 - RECESSED LIGHTING LED DOWN LIGHT - 17W MAX - 120V
	TYPE A2 - RECESSED LED LIGHTING - WALL WASHER - 17W MAX - 120V
	TYPE B - SURFACE MOUNT LIGHTING - 50W MAX - 120V
	TYPE C - SCONCE SURFACE MOUNTED LIGHTING - 20W MAX - 120V
	TYPE D - DECORATIVE CHANDELIER - 100W MAX - 120V
	TYPE F - SURFACE MOUNT LINEAR LIGHTING - LED - 20W MAX - 120V
	TYPE G - UNDER CABINET LED LIGHTING - 2W/LF - 120V
	TYPE H - OUTDOOR LIGHTING - WALL SCONCE - 50W MAX - 120V
	TYPE J - OUTDOOR LIGHTING - 25W MAX - 120V
	TYPE K - WET LOCATION LISTED LED DOWN LIGHTING - 17W MAX - 120V
	X1 - LED SELF POWERED EXIT SIGN W/REMOTE OPTIONAL HEADS - 90 MINUTE RUNTIME MIN.
	X2 - EMERGENCY BATTERY PACK WITH LED HEADS - 90 MINUTE RUNTIME MIN.
	X3 - DUAL REMOTE WEATHERPROOF HEADS (AS COMPATIBLE WITH EXIT SIGNS)

COMMUNICATIONS

	VOICE & DATA COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.
	VOICE ONLY COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.
	DATA COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.
TV	CABLE TV OUTLET COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.

HVAC EQUIPMENT

M	MOTOR OR MOTORIZED EQUIPMENT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
WH	WATER HEATER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
AC	A/C UNIT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
CU	CONDENSER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
AH	AIR HANDLER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
HP	HEAT PUMP - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
H	HEATING ELEMENT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
	ELECTRIC BASEBOARD HEAT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
T	THERMOSTAT - PROVIDE BACKBOX AND 3/4" EMT TO ABOVE ACCESSIBLE CEILING
NOTE:	VERIFY MCA, FLA, MOCP, VOLTAGE & PHASE WITH VENDOR SHOP DRAWINGS PRIOR TO INSTALLATION OF ELECTRICAL FEEDER TO EQUIPMENT AND PRIOR TO MAKING FINAL CONNECTIONS. VERIFY EXACT EQUIPMENT LOCATIONS WITH M.C. PRIOR TO ROUGH-INS.

ALARM EQUIPMENT

S	ADDRESSABLE FIRE ALARM SYSTEM SMOKE DETECTOR (FOR ELEVATOR RECALL ONLY)
FACP	FIRE ALARM CONTROL PANEL (ELEVATOR RECALL ONLY)

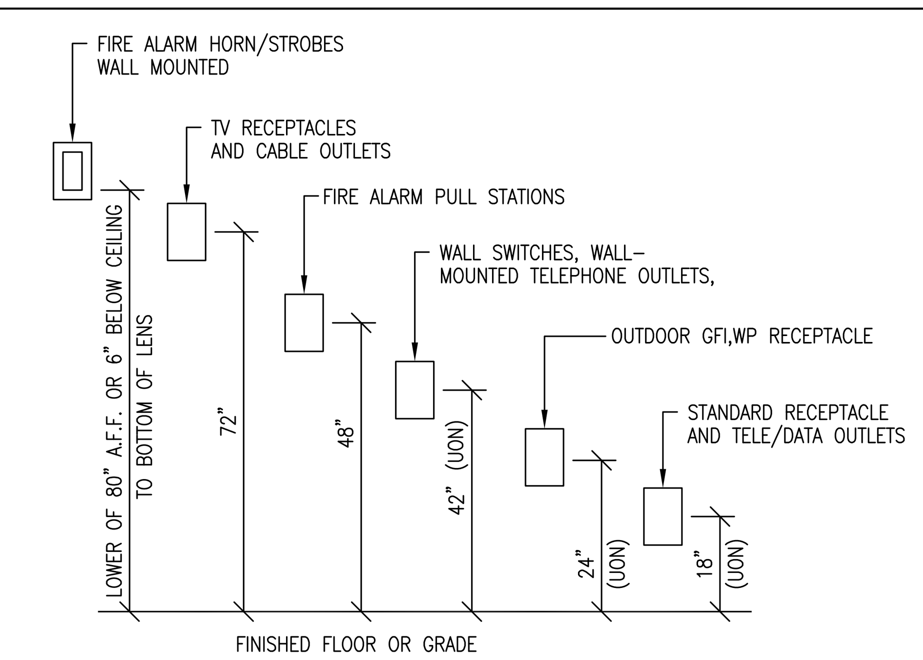
ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES	KW	KILOWATTS
ACR	ABOVE COUNTER RECEPTACLES	LTG	LIGHTING
AFF	ABOVE FINISH FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
AHU	AIR HANDLING UNIT	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	KCMIL	THOUSAND CIRCULAR MILS
ARCH	ARCHITECT	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BLDG	BUILDING	N.C.	NORMALLY CLOSED
C	CONDUIT - RACEWAY	N.O.	NORMALLY OPEN
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
C/L	CENTERLINE	NFSS	NON-FUSED SAFETY SWITCH
COL	COLUMN	NL	NIGHT LIGHT
CU	COPPER	NTS	NOT TO SCALE
C/B	CIRCUIT BREAKER	P	POLE
CT	CURRENT TRANSFORMER	PNL	PANEL OR PANELBOARD
D	DEDICATED	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PWR	POWER
DN	DOWN	PT	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR	RTU	ROOF TOP UNIT
EF	EXHAUST FAN	SP	SPARE
EM	EMERGENCY	SPD	SURGE PROTECTIVE DEVICE
EWC	ELECTRIC WATER COOLER	SW	SWITCH
F	FUSE	TEL	TELEPHONE
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED
FAAP	FIRE ALARM ANNUNCIATOR PANEL	V	VOLT
FACP	FIRE ALARM CONTROL PANEL	W	WIRE
F/S	FUSED SWITCH	WP	WEATHERPROOF
FT	FEET	WG	WITH WIREGUARD
FU.	FUSES	TRANSF	TRANSFORMER
G	GROUND OR GROUNDING	△	DELTA
GRD	GROUND OR GROUNDING		GROUNDED WYE
KVA	KILOVOLT AMPERES	Ø	PHASE

ELECTRICAL GENERAL NOTES

1. ALL BRANCH CIRCUIT WIRING SHALL BE RUN EMT CONDUIT, CONCEALED IN WALLS & CEILINGS IN FINISHED AREAS AND EXPOSED IN UNFINISHED AREAS. MC CABLE MAY BE RUN CONCEALED ABOVE CEILINGS OR IN WALLS WHERE NOT SUBJECT TO PHYSICAL DAMAGE AND ONLY WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION. TYPE "AC" OR "NM" CABLE SHALL NOT BE USED. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR MUST BE RUN IN ALL BRANCH CIRCUITS.
2. ALL PANEL BOARD FEEDERS AND THREE PHASE EQUIPMENT FEEDERS IN EXCESS OF #12 AWG SHALL BE RUN IN EMT, IMC, RGS, OR PVC IN ACCORDANCE WITH THE NEC AND THE PROJECT SPECIFICATIONS. CABLE SHALL NOT BE USED.
3. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL & PERPENDICULAR TO BUILDING STRUCTURE.
4. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AWG TYPE THHN/THWN FOR POWER AND #14 THHN/THWN FOR CONTROL. ALL WIRING TO BE COPPER.
5. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT LOCATION OF HVAC & PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. E.C. SHALL NOT ROUGH IN FOR CONNECTIONS TO EQUIPMENT WITHOUT VERIFYING LOCATIONS ON MECHANICAL & PLUMBING DRAWINGS, AND WITHOUT VERIFYING FINAL LOCATIONS WITH MECHANICAL & PLUMBING CONTRACTOR.
6. THE E.C. IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, AND MOCP REQUIRED FOR ALL HVAC EQUIPMENT PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS AND CONDUIT. VERIFY RATINGS WITH MECHANICAL SUBMITTALS, NAMEPLATES AND DIRECTLY WITH MECHANICAL CONTRACTOR.
7. ALL RACEWAYS RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
8. THE E.C. SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT, OWNER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES. IF THERE IS A CONFLICT BETWEEN ARCHITECTURAL DRAWINGS AND ELECTRICAL DRAWINGS (EXAMPLE: LIGHT FIXTURE LOCATION, SWITCH LOCATION OR HEIGHT OF A DEVICE), THE E.C. SHALL CONTACT THIS ENGINEER FOR DIRECTION PRIOR TO ROUGH-IN.
10. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE, IFC 2018, IBC 2018, IECC 2018, THE LATEST STATE CODES, AND ALL LOCAL CODES.
11. ALL ELECTRICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO CONDUIT, WIRE, BOXES, AND FITTINGS, SHALL BE NEW AND FREE OF DEFECTS, SHALL BEAR THE THE UL LABEL, AND SHALL MEET NEMA AND ANSI STANDARDS.
12. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE SPACE UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
13. THE E.C. IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS, CERTIFICATES OF INSPECTION AND SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/ CONSTRUCTION MANAGER OR GENERAL CONTRACTOR INCLUDING COPIES WITH MAINTENANCE MANUALS.
14. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER & LIGHTING TO THE SPACE DURING THE ENTIRE PERIOD OF CONSTRUCTION. ALL FEES ASSOCIATED WITH PROVIDING TEMPORARY POWER MUST BE INCLUDED IN THE BID. EXACT REQUIREMENTS SHALL BE DETERMINED UPON AWARD OF OF CONTRACT. ON NEW CONSTRUCTION PROJECTS THIS SHALL INCLUDE A TEMPORARY SINGLE PHASE ELECTRICAL SERVICE SIZED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.
15. THE COLORS OF ALL RECEPTACLES, SWITCHES, AND DEVICE PLATES SHALL BE AS SELECTED BY THE ARCHITECT. COLORS SPECIFIED ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY.
16. E.C SHALL PROVIDE BACK BOX & 1/2" EMT TO NEAREST ACCESSIBLE CEILING FOR ALL THERMOSTATS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
17. E.C SHALL PROVIDE BACK BOX & 1" EMT TO NEAREST ACCESSIBLE CEILING FOR ALL VOICE/DATA OUTLETS SHOWN ON DRAWINGS.
18. FINAL LOCATIONS OF ELECTRICAL EQUIPMENT MUST BE COORDINATED WITH HVAC & PLUMBING CONTRACTORS TO INSURE THAT NO PIPING, DUCTWORK, LEAK PROTECTION APPARATUS OR ANY OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IS RUN DIRECTLY ABOVE PANELS, SWITCHBOARDS, MCC'S, OR SWITCH GEAR (SEE NEC ARTICLE 110).
19. EACH LINEAR FLUORESCENT FIXTURE SHALL HAVE A DISCONNECTING MEANS INTERNAL OR EXTERNAL TO THE FIXTURE TO DISCONNECT EACH CURRENT-CARRYING CONDUCTOR SUPPLYING THE BALLAST IN ACCORDANCE WITH NEC 410.130(G).
20. E.C. SHALL ENSURE THAT ALL CEILING-MOUNTED MOTION SENSORS ARE POSITIONED AT LEAST 24 INCHES AWAY FROM ALL MECHANICAL AIR DIFFUSERS.
21. CONFIRM SERVICE ENTRANCE CONDUIT AND CONDUCTOR QUANTITIES AND SIZES WITH THE LOCAL UTILITY PRIOR TO START OF WORK. INCREASE QUANTITIES AND SIZES AS REQUIRED TO MEET LOCAL UTILITY SERVICE AND INSTALLATION REGULATIONS.
22. ALL FINAL CONNECTIONS TO VIBRATING OR MOTORIZED EQUIPMENT, INCLUDING GENERATORS & DRY-TYPE TRANSFORMERS, SHALL BE MADE WITH FLEXIBLE METAL CONDUIT SUITABLE FOR THE ENVIRONMENT WHICH IT IS TO BE LOCATED (FMC OR LFMC).
23. ALL BRANCH CIRCUITS SHALL CONTAIN DEDICATED NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRAL CONDUCTORS.
24. CONFIRM COLD SEQUENCE METERING VERSUS HOT SEQUENCE METERING WITH THE LOCAL UTILITY PRIOR TO START OF CONSTRUCTION.
25. ALL RECEPTACLES AND DEVICES SHALL BE FLUSH MOUNTED IN BLOCK OR STUD WALLS. FOR EXISTING BLOCK WALLS, CONTRACTOR SHALL PROVIDE SURFACE MOUNTED DEVICES AND RUN WIRE MOLD AS NECESSARY. COLOR OF WIRE MOLD SHALL BE SELECTED BY ARCHITECT.
26. HVAC SYSTEM MAY INCLUDE THE USE OF RETURN AIR PLENUMS. CONTRACTOR SHALL ENSURE THAT MATERIALS AND METHODS ARE CONSISTENT WITH PLENUM CEILING REQUIREMENTS.
27. EXISTING CONDITION INFORMATION HAS NOT BEEN FIELD VERIFIED. THE E.C. IS RESPONSIBLE FOR FIELD VERIFYING THESE CONDITIONS DURING THE BIDDING PROCESS. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THIS ENGINEER IMMEDIATELY & PRIOR TO CONSTRUCTION.
28. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A SERVICE AND METER APPLICATION TO THE LOCAL UTILITY COMPANY UPON AWARD OF CONTRACT.

DEVICE MOUNTING HEIGHT ELEVATION



* NOTE: ANY MOUNTING HEIGHT SHOWN ON ARCHITECTS' DRAWINGS SHALL SUPERSEDE THOSE SHOWN ABOVE UNLESS IT CONFLICTS WITH CODE REQUIREMENTS.

ELECTRICAL DRAWING LIST

CURRENT ISSUE:
CLOSING CD SET

ELECTRICAL DRAWING LIST

A = (06-22-22) ISSUE FOR SCHEMATIC DESIGN; B = (01-16-23) REVISIONS; C = (01-25-23) CLOSING CD SET

DWG NO.	DRAWING TITLE	A	B	C
E101	ELECTRICAL SYMBOLS & NOTES	○	○	●
E201	LIGHTING PLANS	○	○	●
E301	POWER PLANS	○	○	●
E302	MECHANICAL POWER PLANS		○	●
E401	ELECTRICAL DIAGRAM & SCHEDULES		○	●
E501	ELECTRICAL DETAILS	○	○	●
E601	ELECTRICAL SPECIFICATIONS	○	○	●

BIDDING INSTRUCTIONS

BASE BID:

1. CONTRACTOR SHALL PROVIDE ALL MATERIAL INDICATED ON THESE DRAWINGS INCLUDING ACCESSORIES REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
2. VISIT SITE TO VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS.
3. QUESTIONS SHALL BE DIRECTED THROUGH THE ARCHITECT TO THE ENGINEER. SEE CONTACT INFORMATION IN THE TITLE BLOCK.

ADD ALTERNATES:

1. PROVIDE AN ALTERNATE FEE TO ADD (1) EXIT SIGN @ 12" AFF AT EACH EXTERIOR EXIT DOOR.

DEDUCT ALTERNATES:

NONE

LIGHTING ABBREVIATIONS DETAIL

LIGHTING ABBREVIATIONS

Example	Abbreviation	Meaning
HP-3 [a] A1, TC,PC, EM/NL	"HP-3"	INDICATES PANEL "HP", CIRCUIT #3
	"A1"	INDICATES FIXTURE TYPE
	"a"	INDICATES SWITCH/DIMMER CONTROL
	"PC"	INDICATES THROUGH PHOTOCELL
	"TC"	INDICATES THROUGH TIMECLOCK
	"EM"	INDICATES EMERGENCY FIXTURE
	"NL"	INDICATES NIGHT LIGHT

NOTE: EM/NL FIXTURES SHALL BE WIRED AHEAD OF LOCAL SWITCHING.

RUDY TITLE & CLOSING

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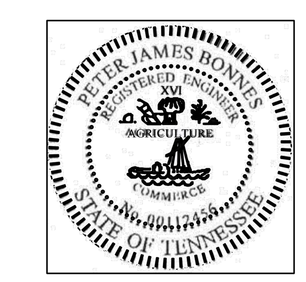
NASHVILLE, TN 37208

MANUEL ZEITLIN ARCHITECTS
516 HAGAN STREET, SUITE 100
NASHVILLE, TN 37203
(615) 256.2880



Peter J. Bonnes

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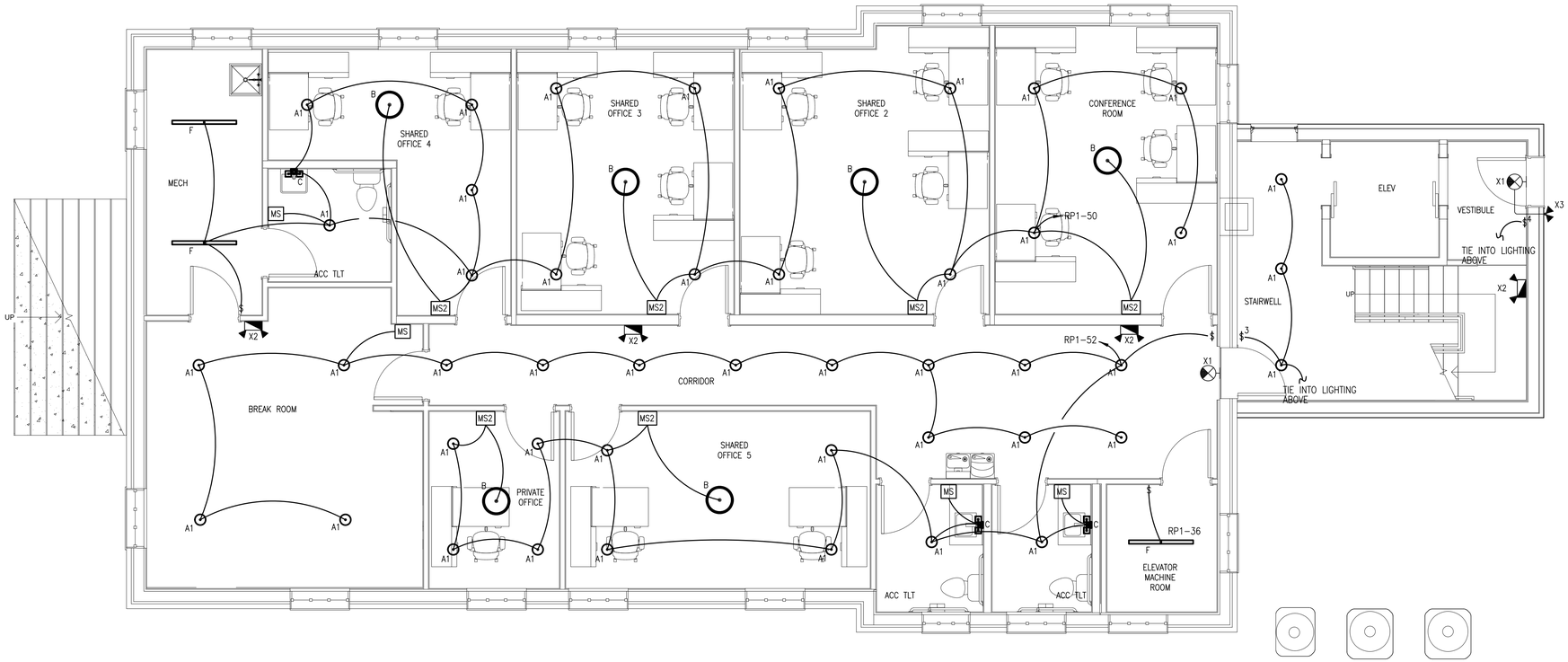
SHEET TITLE

ELECTRICAL SYMBOLS & NOTES

DATE 01-25-23
DRAWN BY LHU/PJB
PROJECT NO. (FXB)22025TN

SHEET NO.

E101

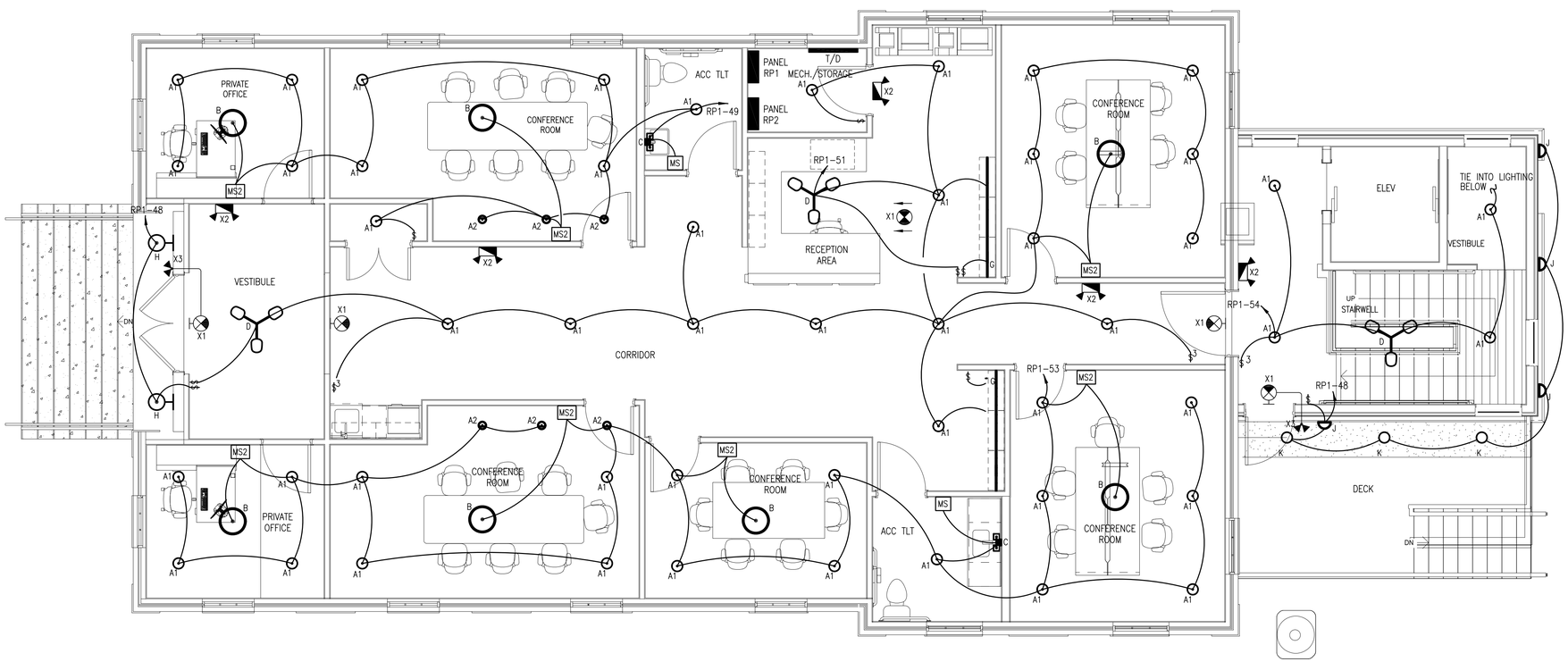


BASEMENT LIGHTING PLAN

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

NOTES:

1. EM/EXIT LIGHTING SHALL BE TIED TO ROOM CIRCUIT AHEAD OF ALL LOCAL SWITCHING.
2. FIXTURES SUPPLIED BY OWNER AND INSTALLED BY E.C.



FIRST FLOOR LIGHTING PLAN

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

NOTES:

1. EM/EXIT LIGHTING SHALL BE TIED TO ROOM CIRCUIT AHEAD OF ALL LOCAL SWITCHING.
2. FIXTURES SUPPLIED BY OWNER AND INSTALLED BY E.C.

RUDY TITLE & CLOSING

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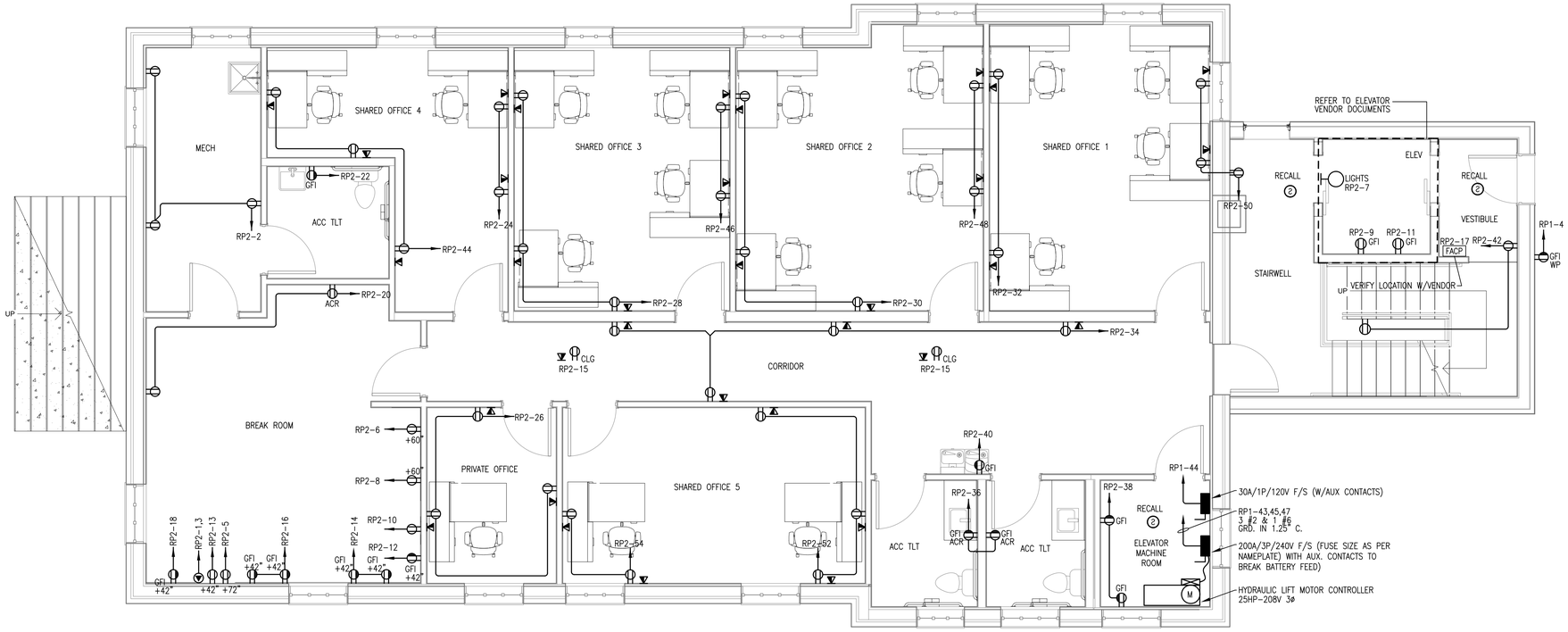
SHEET TITLE

LIGHTING PLANS

DATE	01-25-23
DRAWN BY	LHU/PJB
PROJECT NO.	(FXB)22025TN

SHEET NO.

E201

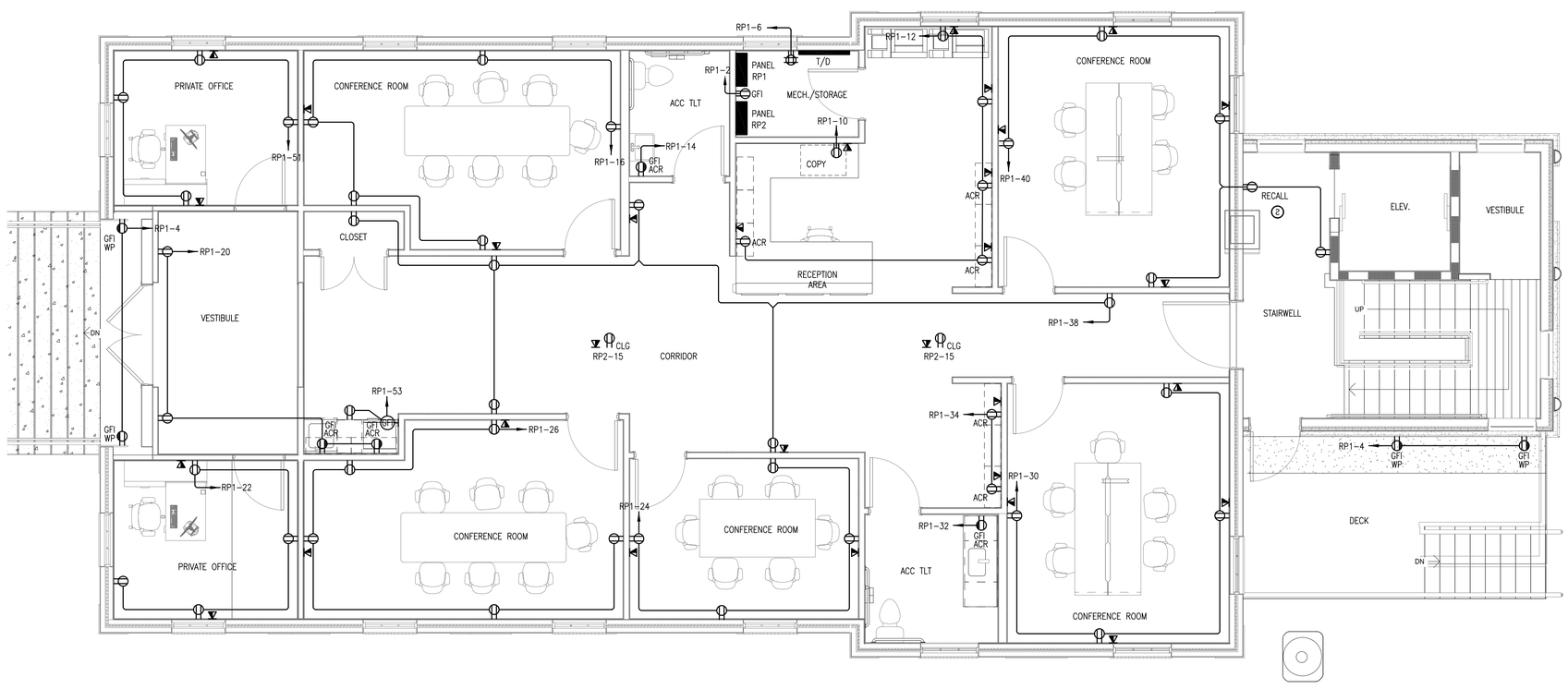


BASEMENT POWER PLAN

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

NOTES:

1. EXACT WIRING DEVICE LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO ROUGH-IN WITH ARCHITECT OR OWNER REP
2. COORDINATE ELEVATOR SHUNTTRIP AND AUX CONTACT INTERLOCK SCOPE WITH VENDOR FINAL SELECTION FOR RECALL REQUIREMENTS. PROVIDE STANDALONE SYSTEM.



FIRST FLOOR POWER PLAN

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

NOTES:

1. EXACT WIRING DEVICE LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO ROUGH-IN WITH ARCHITECT OR OWNER REP

RUDY TITLE & CLOSING

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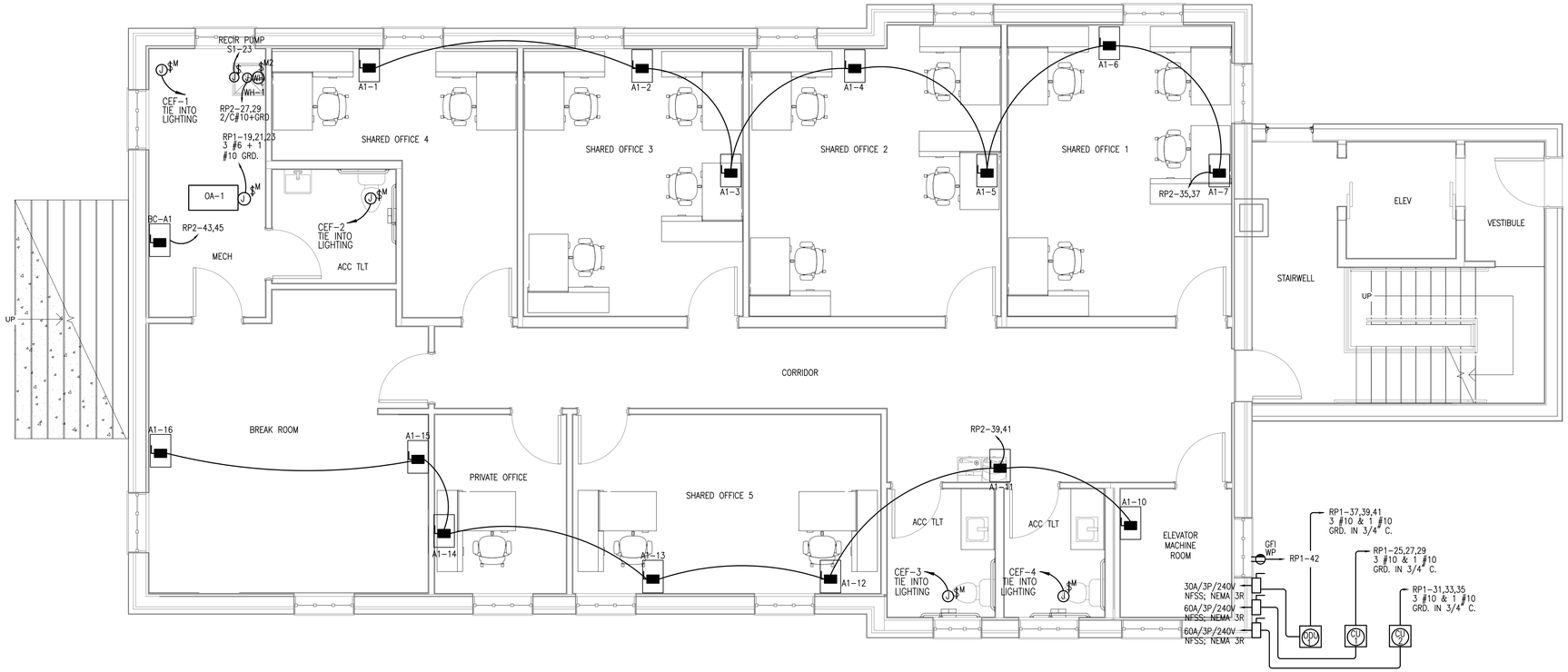
SHEET TITLE

POWER PLANS

DATE	01-25-23
DRAWN BY	LHU/PJB
PROJECT NO.	(FXB)220251N

SHEET NO.

E301

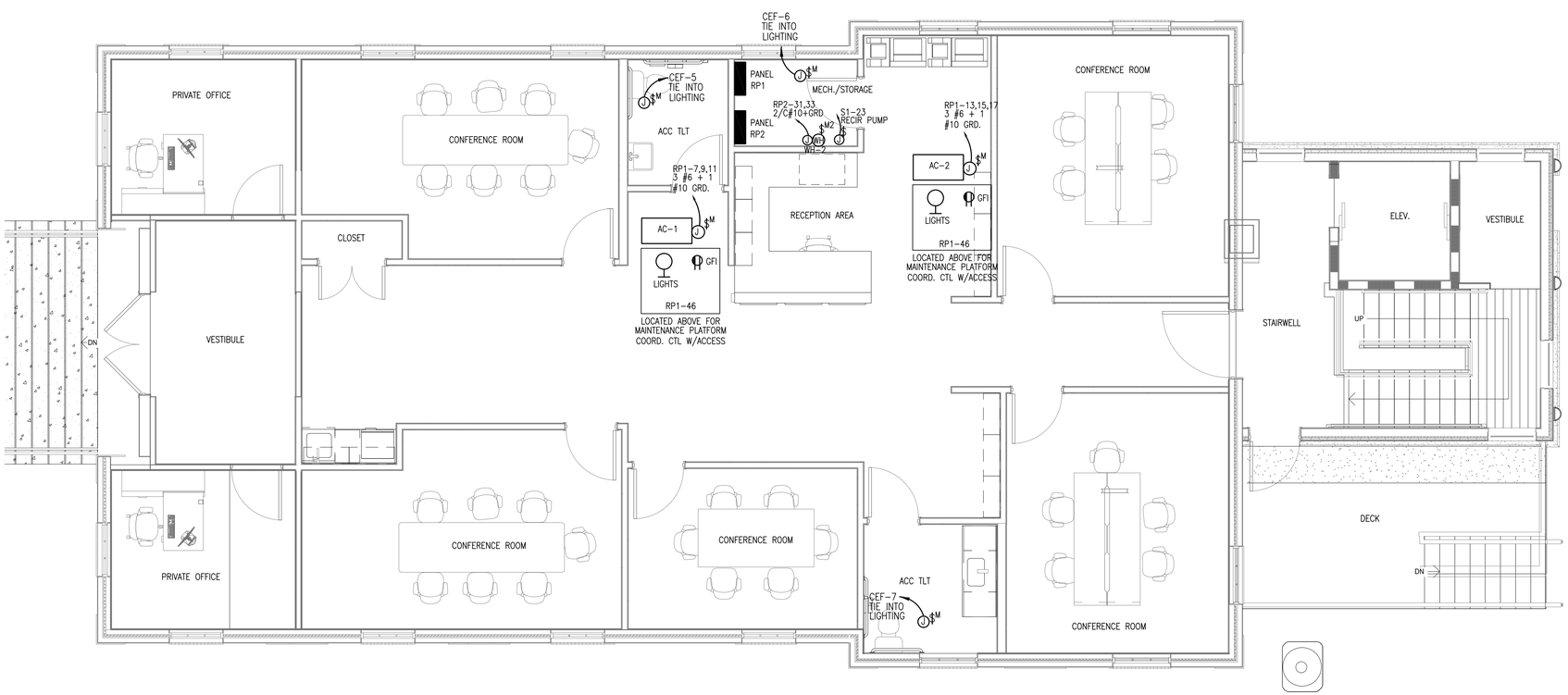


BASEMENT MECHANICAL POWER PLAN

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

NOTES:

1. EXACT WIRING DEVICE LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO ROUGH-IN WITH ARCHITECT OR OWNER REP



FIRST FLOOR MECHANICAL POWER PLAN

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

NOTES:

1. EXACT WIRING DEVICE LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO ROUGH-IN WITH ARCHITECT OR OWNER REP

RUDY TITLE & CLOSING

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SHEET TITLE

MECHANICAL POWER PLANS

DATE	01-25-23
DRAWN BY	LHU/PJB
PROJECT NO.	(FXB)220251N

SHEET NO.

E302

PANEL SCHEDULE "RP2"

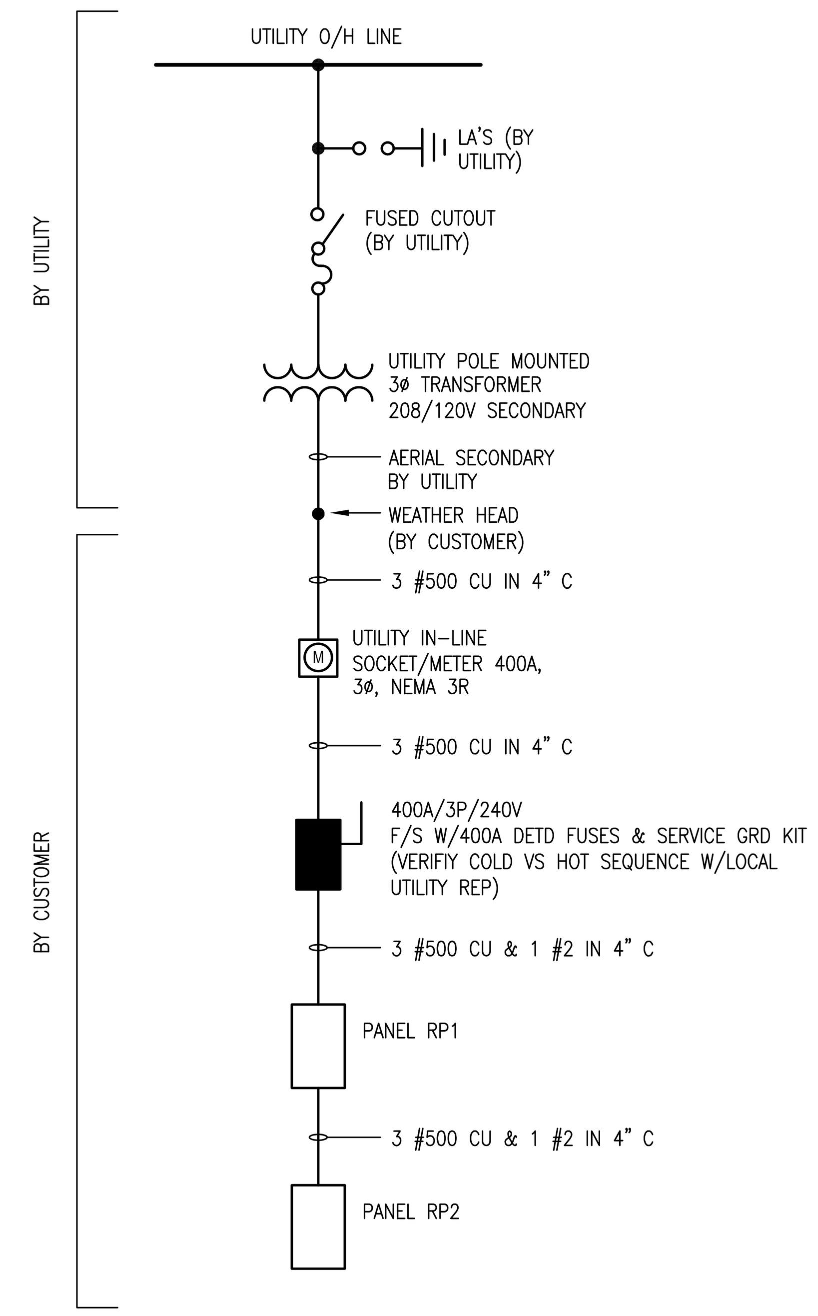
VOLTS: 208/120V PHASE: 3 LOCATION: MECH./STORAGE ROOM SHORT CIRCUIT RATING: 22kAIC

AMPS: 400A MLO WIRE: 4 MOUNTING: SURFACE TOTAL CONNECTED LOAD: 43,610 (121A)

CIR. NO.	DESCRIPTION	LOAD VOLT AMP	WIRE SIZE	CIRCUIT BKR.		CIRCUIT BKR.		WIRE SIZE	LOAD VOLT AMP	DESCRIPTION	CIR. NO.
				AMPS	POLES	AMPS	POLES				
1	RECEPTACLES – BREAKROOM EQUIPMENT	8000	#6	50	2	20	1	#12	540	RECEPTACLES – BASEMENT MECH. ROOM	2
3						20	1	#12	360	RECEPTACLES – BASEMENT – BREAKROOM	4
5	RECEPTACLES – BREAK ROOM	1800	#12	20 GFI	1	20 GFI	1	#12	1200	RECEPTACLES – BASEMENT – BREAKROOM	6
7	RESERVED FOR ELEVATOR PIT LIGHTING	500	#12	20	1	20 GFI	1	#12	1200	RECEPTACLES – BASEMENT – BREAKROOM	8
9	RESERVED FOR ELEVATOR PIT SERVICE POWER	500	#12	20	1	20 GFI	1	#12	1000	RECEPTACLES – BASEMENT – BREAKROOM	10
11	RESERVED FOR ELEVATOR PIT SUMP POWER	500	#12	20	1	20	1	#12	1000	RECEPTACLES – BASEMENT – BREAKROOM	12
13	RECEPTACLE – BREAKROOM	1500	#12	20	1	20	1	#12	1000	RECEPTACLES – BASEMENT – BREAKROOM	14
15	RECEPTACLES – WIFI / ACCESS POINTS	360	#12	20	1	20	1	#12	1000	RECEPTACLES – BASEMENT – BREAKROOM	16
17	ELEVATOR RECALL SYSTEM CONTROL POWER	500	#12	20	1	20	1	#12	1000	RECEPTACLES – BASEMENT – BREAKROOM	18
19	SPARE			20	1	20	1	#12	360	RECEPTACLES – BASEMENT – BREAKROOM	20
21	SPARE			20	1	20	1	#12	180	RECEPTACLES – BASEMENT BATHROOM GFI'S	22
23	SPARE			20	1	20	1	#12	900	RECEPTACLES – BASEMENT SHARED OFFICE 4	24
25	SPARE			20	1	20	1	#12	1440	RECEPTACLES – BASEMENT PRIVATE OFFICE	26
27	WATER HEATER – 1	4,500	#12	20	2	20	1	#12	900	RECEPTACLES – BASEMENT SHARED OFFICE 3	28
29						20	1	#12	900	RECEPTACLES – BASEMENT SHARED OFFICE 2	30
31	WATER HEATER – 2	4,500	#12	20	2	20	1	#12	900	RECEPTACLES – BASEMENT SHARED OFFICE 1 & STAIRWELL	32
33						20	1	#12	540	RECEPTACLES – BASEMENT CORRIDOR	34
35	A1–1 – A1–7	350	#12	15	2	20	1	#12	360	RECEPTACLES – BASEMENT BATHROOM GFI'S	36
37						20	1	#12	360	RECEPTACLES – BASEMENT ELEVATOR MACHINE ROOM GFI'S	38
39	A1–10 – A1–16	400	#12	15	2	20	1	#12	180	RECEPTACLES – BASEMENT WATER FOUNTAIN	40
41						20	1	#12	360	RECEPTACLES – BASEMENT VESTIBULE & STAIRWELL	42
43	BC–A1	400	#12	15	2	20	1	#12	540	RECEPTACLES – BASEMENT – SHARED OFFICE 4	44
45						20	1	#12	360	RECEPTACLES – BASEMENT – SHARED OFFICE 3	46
47	SPARE			20	1	20	1	#12	360	RECEPTACLES – BASEMENT – SHARED OFFICE 2	48
49	SPARE			20	1	20	1	#12	540	RECEPTACLES – BASEMENT – SHARED OFFICE 1	50
51	RECEPTACLES – FIRST FLOOR – PRIVATE OFFICE	720	#12	20	1	20	1	#12	540	RECEPTACLES – BASEMENT – SHARED OFFICE 5	52
53	RECEPTACLE – FIRST FLOOR – REFRIGERATOR	1200	#12	20	1	20	1	#12	360	RECEPTACLES – BASEMENT – SHARED OFFICE 5	54

PANELBOARD NOTES:

1. THIS PANEL SHALL BE SQUARE "D" CO. TYPE "NQ" (OR APPROVED EQUAL) WITH BOLT–ON BRANCH CIRCUIT BREAKERS AND HINGED (DOOR–IN–DOOR) TRIM



ONE LINE DIAGRAM - INSTALLATION

NOT TO SCALE

NOTES:

1. ALL EQUIPMENT & WIRING IS NEW AND BY E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.
2. EXACT LOCATION OF UTILITY TRANSFORMER & METER MUST BE APPROVED BY UTILITY AND GC AND/OR CONSTRUCTION MANAGER AND OWNERS PROJECT MANAGER.
3. VERIFY NAMEPLATE RATING OF HVAC EQUIPMENT, ELEVATOR AND OWNERS PROCESS EQUIPMENT (WHERE APPLICABLE) PRIOR TO ORDERING BREAKERS, DISCONNECTS, CABLES, AND PRIOR TO ROUGH–IN.
4. PROVIDE SUBMITTALS FOR ALL EQUIPMENT INDICATED ON THIS ONE LINE DIAGRAM. THIS INCLUDES PRIMARY & SECONDARY TERMINATIONS, SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECTS, CT/PT CABINETS, METER SOCKETS, PRIMARY CABLE, AND VFD'S (WHERE INDICATED ON ONE LINE DIAGRAM).
5. A SERVICE AND METER APPLICATION HAS NOT BEEN SUBMITTED FOR THIS PROJECT. E.C. IS RESPONSIBLE TO SUBMIT A SERVICE AND METER APPLICATION IMMEDIATELY UPON AWARD OF BID. CONTACT THIS ENGINEER FOR LOAD INFORMATION OR REFER TO LOAD SUMMARY HEREIN.
6. A POWER SYSTEMS STUDY (SHORT CIRCUIT, COORDINATION, ARC FLASH) HAS NOT BEEN PERFORMED FOR THIS PROJECT. SHORT CIRCUIT CALCULATIONS HAVE BEEN ESTIMATED BASED ON UTILITY EXPECTED TRANSFORMER SIZE & LOCATION AND BASED ON AN INFINITE PRIMARY BUS AND TYPICAL UTILITY TRANSFORMER IMPEDANCE VALUES (CONSERVATIVE APPROACH). THE E.C. IS RESPONSIBLE TO RETAIN THE SERVICES OF A XX STATE LICENSED PROFESSIONAL ELECTRICAL ENGINEER TO PERFORM A POWER SYSTEMS STUDY, TO SET ALL ADJUSTABLE TRIP CIRCUIT BREAKERS AND TO INSTALL ALL ARC FLASH LABELS ON SWITCHBOARD, PANELS, ATS, TRANSFORMERS, MCC'S AND DISCONNECTS OVER 100 AMPS (WHERE SUCH EQUIPMENT IS APPLICABLE). THE POWER SYSTEMS STUDY SHALL BE SUBMITTED TO THIS ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING ELECTRICAL GEAR.
7. INCREASE CONDUCTOR SIZE SHOWN BY ONE SIZE IF DISTANCE FROM SOURCE TO LOAD EXCEEDS THE FOLLOWING (THIS APPLIES TO ALL FEEDERS AND BRANCH CIRCUITS EVEN IF DRAWINGS INDICATE A STANDARD SIZE CONDUCTOR).

VOLTS	PHASE	ONE WAY CONDUCTOR DISTANCE (IN FEET) FROM BREAKER TO LOAD
120	1	70
208	1	100
277	1	140
480	1	200
208	3	130
480	3	250

8. FIELD APPLY ARC FLASH WARNING LABELS FOR ALL PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, AND METER SOCKETS, AND INDUSTRIAL CONTROL PANELS PER 2017 NEC 110.16.
9. EACH DISCONNECTING MEANS SHALL BE MARKED TO INDICATE ITS PURPOSE PER 2017 NEC 110.22.
10. FIELD MARK SERVICE EQUIPMENT WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER 2017 NEC 110.24. COORDINATE WITH UTILITY COMPANY TO DETERMINE MAXIMUM AVAILABLE FAULT CURRENT AT TRANSFORMER.
11. CIRCUIT BREAKERS AND/OR FUSES SHALL BE PERFORMANCE TESTED UPON INSTALL USING A TEST PROCESS OF PRIMARY CURRENT INJECTION. ALL TESTING SHALL BE CONDUCTED BY A QUALIFIED PERSON(S) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WHICH SHALL BE PROVIDED WITH THE EQUIPMENT, IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE 2020 NEC, AS FOLLOWS:
    a. PER SECTION 230.95(C) – THE GROUND FAULT PROTECTION SYSTEM
    b. PER SECTION 240.67(C) AND 240.87(C) – THE ARC ENERGY REDUCTION SYSTEM (FUSES AND CIRCUIT BREAKERS)

    A WRITTEN RECORD OF THESE REQUIRED TESTS SHALL BE MADE AND SENT TO OWNER/ENGINEER, AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.

PANEL SCHEDULE "RP1"

VOLTS: 208/120V PHASE: 3 LOCATION: MECH./STORAGE ROOM SHORT CIRCUIT RATING: 22kAIC

AMPS: 400A MLO WIRE: 4 MOUNTING: SURFACE PANEL CONNECTED LOAD: 92,720 (258A)

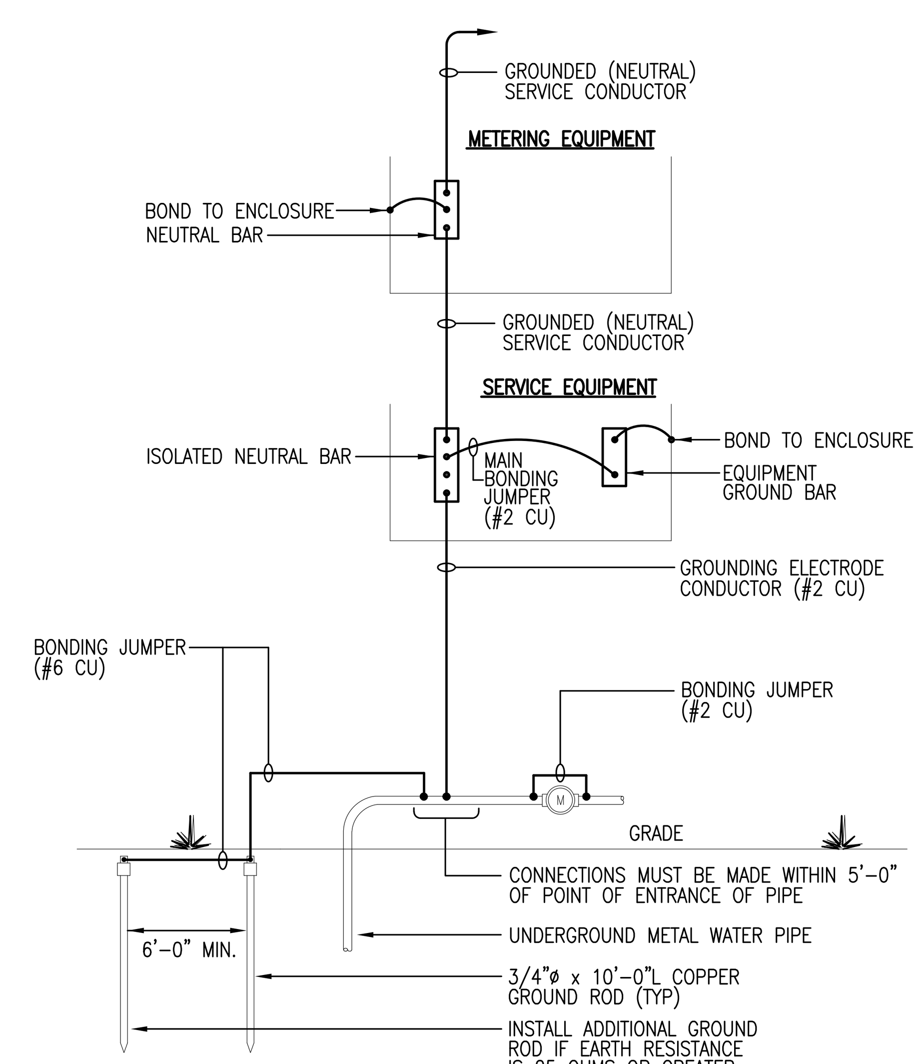
TOTAL CONNECTED LOAD: 136,330 (378A)

CIR. NO.	DESCRIPTION	LOAD VOLT AMP	WIRE SIZE	CIRCUIT BKR.		CIRCUIT BKR.		WIRE SIZE	LOAD VOLT AMP	DESCRIPTION	CIR. NO.
				AMPS	POLES	AMPS	POLES				
1	SPD (120kA/MODE) BY E.C.		#6	30	3	20	1	#12	500	RECEPTACLES – MECH./STORAGE ROOM	2
3						20	1	#12	540	RECEPTACLES – EXTERIOR GFI'S	4
5						20	1	#12	500	MECH/STORAGE ROOM T/D BACKBOARD	6
7	AC–1 (W/10.8 kW AUX HEAT)	12,700	#6	45	3	20	1	#12	540	RECEPTACLES – RECEPTION AREA	8
9						20	1	#12	1200	RECEPTACLES – COPIER	10
11						20	1	#12	900	RECEPTACLES – RECEPTION AREA	12
13	AC–2 (W/10.8 kW AUX HEAT)	12,700	#6	45	3	20	1	#12	180	RECEPTACLES – FIRST FLOOR BATHROOM GFI	14
15						20	1	#12	1620	RECEPTACLES – FIRST FLOOR CONFERENCE ROOM/PRIVATE OFFICE	16
17						20	1			SPARE	18
19	OA–1 (W/4.4kW ELEC HEAT)	5,000	#12	20	3	20	1	#12	720	RECEPTACLES – FIRST FLOOR VESTIBULE & CORRIDOR	20
21						20	1	#12	720	RECEPTACLES – FIRST FLOOR PRIVATE OFFICE	22
23						20	1	#12	720	RECEPTACLES – FIRST FLOOR CONFERENCE ROOMS	24
25	CU–1	5,500	#10	30	3	20	1	#12	900	RECEPTACLES – FIRST FLOOR CONFERENCE ROOMS	26
27						20	1			SPARE	28
29						20	1	#12	720	RECEPTACLES – FIRST FLOOR CONFERENCE ROOM	30
31	CU–2	5,500	#10	30	3	20	1	#12	180	RECEPTACLES – FIRST FLOOR BATHROOM GFI	32
33						20	1	#12	360	RECEPTACLES – FIRST FLOOR CORRIDOR	34
35						20	1	#12	100	LIGHTING – ELEVATOR MACHINE ROOM	36
37	ODU–1	7,000	#10	35	3	20	1	#12	1080	RECEPTACLES – FIRST FLOOR CORRIDOR	38
39						20	1	#12	1080	RECEPTACLES – FIRST FLOOR CONFERENCE ROOM & STAIRWELL	40
41						20	1	#12	180	RECEPTACLES – EXTERIOR SERVICE GFI	42
43	25 HP ELEVATOR W/SHUNT TRIP PROVISIONS (VERIFY W/ MANUFACTURER)	28,100	#2	150	3	20	1	#12	150	ELEVATOR CAB LIGHTING	44
45						20	1	#12	500	AC–1&2 SERVICE GFI/LIGHTS	46
47						20	1	#12	260	LIGHTING – EXTERIOR	48
49	LIGHTING – FIRST FLOOR CONFERENCE ROOM / OFFICE	340	#12	20	1	20	1	#12	550	LIGHTING – BASEMENT SHARED OFFICES	50
51	LIGHTING – FIRST FLOOR CORRIDOR / CONFERENCE ROOMS	550	#12	20	1	20	1	#12	565	LIGHTING – BASEMENT CORRIDOR / OFFICES	52
53	LIGHTING – FIRST FLOOR CONFERENCE ROOMS	595	#12	20	1	20	1	#12	220	LIGHTING – ELEVATOR LOBBY / STAIRWELL / VESTIBULE	54

PANELBOARD NOTES:

1. THIS PANEL SHALL BE SQUARE "D" CO. TYPE "I–LINE" (OR APPROVED EQUAL) WITH BOLT–ON BRANCH CIRCUIT BREAKERS AND HINGED (DOOR–IN–DOOR) TRIM

* THIS PANEL SHALL HAVE SUBFEED LUGS FOR FEED TO PANEL "RP2"



SERVICE GROUNDING SCHEMATIC

NOT TO SCALE

NOTES:

1. SERVICE GROUNDING MUST COMPLY WITH NEC 250.
2. ALL UNDERGROUND CONNECTIONS SHALL BE CADWELD.

ELECTRICAL LOAD SUMMARY

DESCRIPTION	CONNECTED LOAD (VOLT AMPS)	MULTIPLIER	CODE LOAD (VOLT AMPS)
INTERIOR LIGHTING	3,320	1.25	4,150
EXTERIOR LIGHTING	260	1.25	325
ELECTRIC HEAT	37,000	SEE BELOW	37,000
AIR CONDITIONING	18,000	SEE BELOW	0
VENTILATION	8,700	1.0	8,700
STORAGE WATER HEATER	9,000	1.25	11,250
RECEPTACLES/MISC.	47,970	SEE BELOW	28,985
LARGEST MOTOR (ELEV)	28,100	0.25	7,025

TOTAL LOAD: CODE: 97.5 kVA

TOTAL AMPS @ 208/120V–3ø CODE: 271 AMPS

TOTAL AREA: 5600 SQUARE FEET VA/SQ FT = 17.5

NOTE: CODE LOAD CALCULATED @125% FOR CONTINUOUS LOADS, AND 100% FOR NON–CONTINUOUS LOADS EXCEPT AS DESIGNATED BELOW

RECEPT/MISC. 100% OF 10 KVA PLUS 50% OF REMAINDER [NEC 2017220.44] BANKS AND OFFICES: LARGER OF 1 VA/S.F. OR THE COMPUTED LOAD [NEC 2017 220.17 (K)]

INTERIOR LIGHTING: 125% OF EITHER THE ACTUAL LIGHTING LOAD OR AS PER NEC 2014 TABLE 220.12 (WHICHEVER IS GREATER)

A/C & ELECTRIC HEAT: THE LARGER OF THE 2 LOADS [NEC 2017 220.60]

LARGEST MOTOR: 125% OF FLA [NEC 2017 220.50 & 430.24]

RUDY TITLE & CLOSING

1926 10TH AVE N.
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MANUEL ZEITLIN ARCHITECTS
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SHEET TITLE

ELECTRICAL SCHEDULES

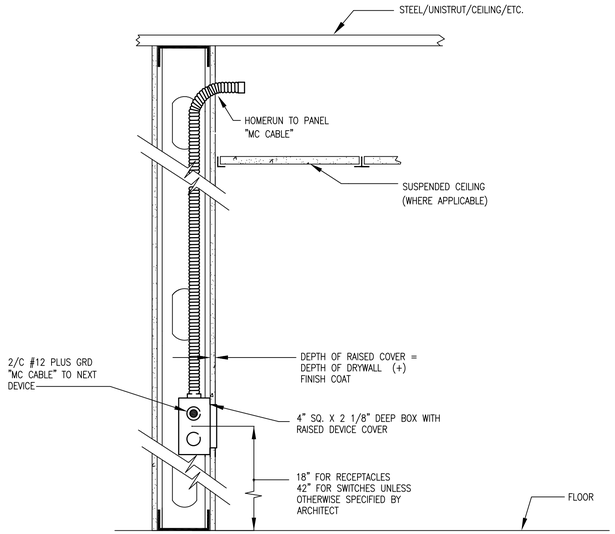
DATE 01-25-23

DRAWN BY LHU/PJB

PROJECT NO. (FXB)22025TN

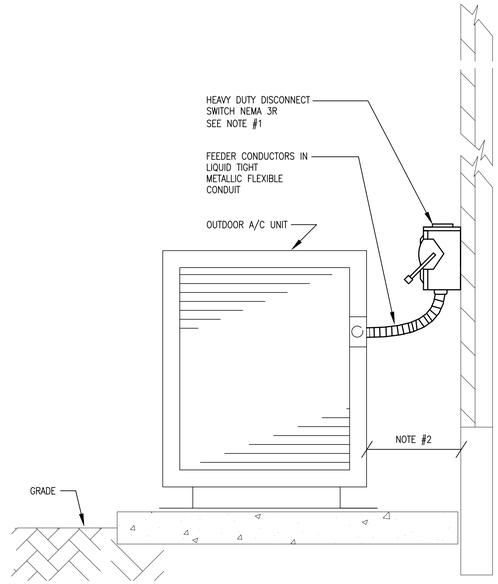
SHEET NO.

E401



DEVICE INSTALLATION IN HOLLOW PARTITIONS

(120V VOLT DEVICES)
SCALE: NONE



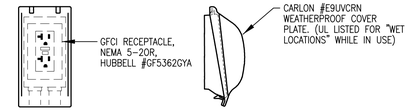
INSTALLATION DETAIL OUTSIDE CONDENSER

SCALE: NONE

NOTE:

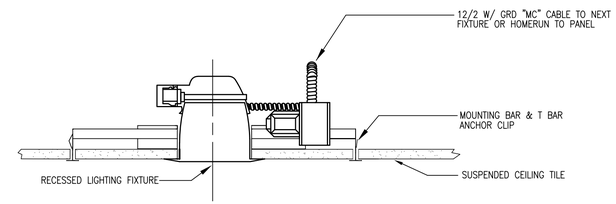
1. OVERCURRENT PROTECTIVE DEVICES AND FEEDER CONDUCTORS TO BE SIZE PER A/C MANUFACTURERS NAME PLATE RATINGS. VERIFY NAME PLATE RATINGS PRIOR TO INSTALLATION OF FEEDER & DISCONNECT SWITCH.

2. DO NOT LOCATE DISCONNECT SWITCH BEHIND CONDENSER UNLESS THERE IS MORE THAN 42" CLEARANCE FROM THE FRONT OF THE DISCONNECT SWITCH TO THE UNIT



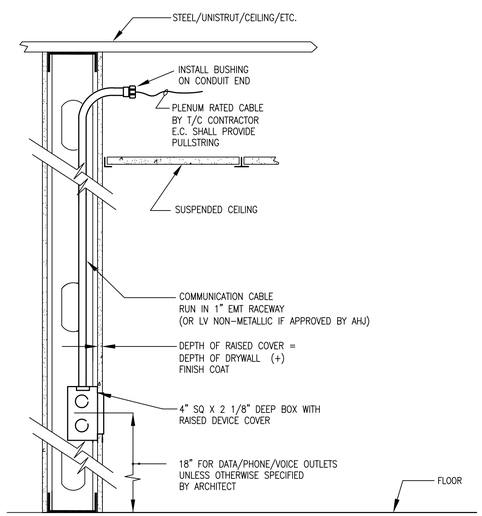
EXTERIOR RECEPTACLE DETAIL

SCALE: NONE



INSTALLATION DETAIL DOWNLIGHT

SCALE: NONE



DEVICE INSTALLATION IN HOLLOW PARTITIONS WITH SUSPENDED CEILINGS

(DATA AND VOICE COMMUNICATIONS OUTLET)
SCALE: NONE

RUDY TITLE & CLOSING

1926 10TH AVE N.
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SHEET TITLE

ELECTRICAL DETAILS

DATE 01-25-23
DRAWN BY LHU/P.JB
PROJECT NO. (FXB)22025TN

SHEET NO.

E501

ELECTRICAL SPECIFICATIONS

A. SCOPE OF WORK

1. FURNISH ALL LABOR AND MATERIAL TO COMPLETE ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN OR REQUIRED TO COMPLETE THE CONSTRUCTION OF THE BUILDING AS SHOWN.
2. THE LISTING OF ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL PROVIDE AND INSTALL, UNLESS NOTED TO BE SUPPLIED BY OTHERS, EACH ITEM LISTED OF QUALITY OR SUBJECT TO QUALIFICATION NOTED. EACH OPERATION SHALL BE PERFORMED ACCORDING TO STANDARD PRACTICE, MANUFACTURER'S INSTRUCTIONS AND CONDITIONS STATED, PROVIDING, THEREFORE, ALL NECESSARY LABOR, EQUIPMENT AND INCIDENTALS.
3. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE HIS WORK TO CONFORM TO THE PROGRESS OF THE OTHER TRADES AND CONTRACTORS EMPLOYED ON THIS PROJECT. THE PRINCIPAL ITEMS OF WORK INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - A. PROVIDE ELECTRICAL SERVICE INCLUDING SECONDARY UNDERGROUND CONDUITS, CABLES, TERMINATIONS, GROUNDING, METERING EQUIPMENT, ETC., IN ACCORDANCE WITH UTILITY REQUIREMENTS AND DRAWINGS.
   - B. PROVIDE LIGHTING FIXTURES AS SHOWN ON DRAWINGS. THIS SHALL INCLUDE ALL ASSOCIATED LAMPS, BOXES, SWITCHES, CONTACTORS, AND BRANCH CIRCUIT WIRING AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
   - C. PROVIDE DEVICES (RECEPTACLES, SWITCHES, ETC.) AS SHOWN ON DRAWINGS. THIS SHALL INCLUDE ALL ASSOCIATED BRANCH CIRCUIT WIRING AND MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.
   - D. POWER FEEDERS TO HVAC EQUIPMENT INCLUDING CONDENSING UNITS, AIR HANDLING UNITS, EXHAUST FANS, INCLUDING DISCONNECT SWITCHES, CONTROL DEVICES, STARTERS FOR MOTORS NOT PROVIDED BY OTHERS. (CONSULT HVAC CONTRACTOR FOR PHASE AND VOLTAGE OF EQUIPMENT AND ACTUAL NAMEPLATE RATINGS FOR FEEDER MINIMUM CONDUCTOR AMPACITIES (MCA) AND MAXIMUM OVER CURRENT PROTECTION DEVICES (MOCP) INFORMATION PRIOR TO INSTALLATION AND PRIOR TO PURCHASING ELECTRICAL EQUIPMENT.
   - E. PROVIDE POWER DISTRIBUTION EQUIPMENT (TRANSFORMERS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, MOTOR STARTERS, ENCLOSED CIRCUIT BREAKERS ETC.) AS SHOWN ON DRAWINGS OR AS REQUIRED FOR THIS PROJECT. THIS SHALL INCLUDE ALL WIRING AND ASSOCIATED MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.
   - F. PROVIDE FIRE ALARM SYSTEM ONLY IF REQUIRED BY FIRE MARSHAL OR LOCAL CODES. (E.C. MUST VERIFY REQUIREMENTS PRIOR TO BIDDING)
   - G. PROVIDE POWER FEEDER TO PLUMBING EQUIPMENT INCLUDING WATER HEATERS, ELECTRONIC FAUCETS, URINALS, WATER CLOSETS, RECIRCULATION PUMPS, ETC. INCLUDING DISCONNECT SWITCHES (CONSULT PLUMBING CONTRACTOR).
   - H. PROVIDE BACKBOXES, PULL STRING, AND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ALL VOICE AND COMMUNICATIONS OUTLETS.
   - I. PROVIDE BACKBOXES AND CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO CEILING LEVEL FOR EXPOSED CEILING SYSTEMS FOR ALL THERMOSTATS SHOWN ON MECHANICAL DRAWINGS.
   - J. PROVIDE EMERGENCY LIGHTING, BATTERY UNITS, REMOTE HEADS, EXIT LIGHTS, AND ALL ASSOCIATED WIRING, CONDUIT, JUNCTION BOXES, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
   - K. PROVIDE A SURGE PROTECTIVE DEVICE (SPD) FOR SERVICE PANEL AND PROVIDE SURGE PROTECTION DEVICES FOR COMMUNICATIONS EQUIPMENT.
   - L. PROVIDE DEMOLITION OF PANELS, LIGHTS, RECEPTACLES, DEVICES, SWITCHES, DISCONNECTS, TRANSFORMERS, CONTACTORS, STARTERS, WIRING, CONDUIT, JUNCTION BOXES, ETC. PER DRAWINGS AND/OR AS REQUIRED TO CLEAR PROJECT AREA FOR NEW CONSTRUCTION.

B. INSTALLATION

1. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE PRESENT CONDITIONS AND VERIFY EXACT LOCATION OF EQUIPMENT AND LOCAL REGULATIONS PRIOR TO SUBMITTING BID.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF EXISTING WALLS CEILINGS AND FLOOR SLABS NECESSARY FOR THE COMPLETION OF HIS WORK.
3. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK AND MATERIAL SHOWN SHALL BE PERFORMED, FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. THE COMPLETE INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND CITY CODES, RULES, REGULATIONS AND ORDINANCES.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING APPLICATIONS AND PAYING ALL FEES IN CONNECTION WITH ANY PERMITS, TESTS AND INSPECTIONS THAT MAY BE REQUIRED.
6. GUARANTEE ALL WORKMANSHIP, MATERIAL AND PERFORMANCE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.
7. THE EXACT MOUNTING LOCATIONS OF APPARATUS, DEVICES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM OWNER OR THEIR REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAID OUT ACCORDINGLY. SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT HIS OWN EXPENSE WHEN SO ORDERED BY OWNER. THE OWNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CABLE, CONDUIT AND EQUIPMENT INSTALLED BY THIS CONTRACTOR UP TO THE TIME OF INSTALLATION, WITHOUT ADDITIONAL COST.
8. ALL CONDUCTORS SHALL BE COPPER, THHN INSULATION UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE IN EMT OR MC CABLE RUN CONCEALED IN FINISHED AREAS AND NOT SUBJECT TO PHYSICAL DAMAGE. RUN EMT IN UNFINISHED CEILING AREAS. RUN ALL CONDUIT CONCEALED IN BLOCK WALLS AND RECESS ALL DEVICES IN BLOCK WALLS TO THE EXTENT POSSIBLE AND/OR PRACTICAL.

C. DRAWINGS AND SPECIFICATIONS

1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT ROUTING. DIMENSIONS GIVEN ON THE PLANS SHALL BE VERIFIED IN THE FIELD. DRAWINGS MAY NOT BE SCALED TO OBTAIN EXACT DIMENSIONS.
2. THIS CONTRACTOR SHALL FURNISH SUCH LABOR AND MATERIALS AS HEREIN-AFTER SPECIFIED AND AS REQUIRED TO COMPLETE ALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT AND OWNER'S EQUIPMENT AS SHOWN AND/OR SPECIFIED.

D. VISIT TO THE SITE

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK, AND THE SUBMISSION OF HIS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM LACK OF SUCH KNOWLEDGE OF EXISTING CONDITIONS.

E. MATERIALS AND WORKMANSHIP

1. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY COMPETENT WORKMEN, SKILLED IN THEIR RESPECTIVE TRADE.
2. UNLESS SPECIFICALLY SPECIFIED OR INDICATED OTHERWISE ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.
3. ALL MATERIALS SHALL MEET OR EXCEED STANDARDS SPECIFIED BY UL, NEMA, ANSI, AND IEEE WHEREVER SUCH STANDARDS HAVE BEEN ESTABLISHED.
4. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS ASSOCIATED WITH HIS WORK AND LEAVE THE WORK AREA CLEAN AT END OF EACH WORK DAY.
5. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.

F. DEFINITIONS

1. "INSTALL" SHALL MEAN TO PLACE, FIX IN POSITION, SECURE, ANCHOR, ETC. INCLUDING NECESSARY APPURTENANCES AND LABOR SO THE EQUIPMENT OR INSTALLATION WILL FUNCTION AS SPECIFIED AND INTENDED.
2. "FURNISH" SHALL MEAN TO PURCHASE AND SUPPLY EQUIPMENT OR COMPONENTS.
3. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. "OR APPROVED EQUAL" AND "OR EQUAL" SHALL MEAN EQUAL IN TYPE, DESIGN, QUALITY, ETC. AS DETERMINED BY THE OWNER AND APPROVED BY ENGINEER.

G. CODES, PERMITS, AND INSPECTIONS

1. INSTALL ALL WORK IN FULL SHALL BE DONE ACCORDANCE WITH CODES, RULES, AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS SHALL INCLUDE ALL DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AS INTERPRETED BY THE LOCAL INSPECTION DIVISION. ALL THESE CODES, RULES AND REGULATIONS ARE HEREBY INCORPORATED INTO THIS SPECIFICATION.
2. COMPLY WITH SPECIFICATION REQUIREMENTS WHICH ARE IN EXCESS OF CODE REQUIREMENTS AND NOT IN CONFLICT WITH SAME.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS AND CERTIFICATES OF INSPECTION INCIDENTAL TO HIS WORK, REQUIRED BY THE FOREGOING AUTHORITIES ALL SUCH CERTIFICATES SHALL BE DELIVERED TO THE OWNER IN DUPLICATE, BEFORE FINAL PAYMENT ON CONTRACT WILL BE ALLOWED. THE CONTRACTOR SHALL PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREWITH.

H. LABELING AND NAMEPLATES

1. PERMANENTLY LABEL PANELBOARDS, TIME SWITCHES, CONTACTORS, PULL BOXES, JUNCTION BOXES, AND SAFETY SWITCHES INDICATING EQUIPMENT OR PANELS AND AREAS WHICH THEY SERVE.
2. PANELBOARDS SHALL BE LABELED AS SHOWN ON DRAWINGS, UNLESS DIRECTED OTHERWISE BY OWNER/FACILITIES MGMT. NAMEPLATE DETAIL IS FOR FACILITIES THAT DO NOT ALREADY HAVE EXISTING PANEL NAMEPLATE NOMENCLATURE & CONTENT REQUIREMENTS.
3. IDENTIFY AS TO USE ON FACE OF EQUIPMENT BY MEANS OF LAMINATED BLACK AND WHITE PHENOLIC LABEL WITH 3/8" LETTERS ENGRAVED THROUGH BLACK TO WHITE.
4. ALL SWITCHBOARDS AND PANEL BOARDS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES,

I. TESTS AND VOLTAGE RECORD

1. ELECTRICAL CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS. WHEN THE INSULATION RESISTANCE TEST SHALL INDICATE THE POSSIBILITY OF FAULTY INSULATION, THE CONTRACTOR SHALL LOCATE THE POINTS OF SUCH FAULTY INSULATION AND PULL OUT THE CONDUCTOR, REPLACE SAME WITH NEW, AND DEMONSTRATE. BY FURTHER TEST THE ELIMINATION OF SUCH FAULT.
2. RECORD FEEDER LOAD CURRENTS AND LINE VOLTAGES MEASURED AT EACH PANELBOARD. ADJUST SINGLE PHASE LOAD CONNECTIONS TO BALANCE FEEDER LOADS WITHIN 10%. PROVIDE THE OWNER WITH A COMPLETE COPY OF ALL LOAD AND VOLTAGE RECORDS.

J. BRANCH CIRCUIT WIRING

1. PROVIDE A SYSTEM OF PANELS, CONDUITS, FITTINGS, BOXES, SUPPORTS AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED FOR EQUIPMENT INDICATED ON PLANS, COMPLETE AND READY FOR OPERATION BY THE OWNER.
2. HOME RUNS FROM 20A OUTLETS 125 FT. OR OVER AT 277 VOLTS, OR 60 FT. OR OVER AT 120 VOLTS SHALL BE #10 WIRE.
3. ALL FIXTURE AND BRANCH CIRCUIT WIRING CONNECTIONS OR SPLICES SHALL BE MADE IN JUNCTION AND OUTLET BOXES WITH U.L. LISTED PRESSURE TYPE. CONNECTORS AND LISTED FOR 600 VOLTS (1,000 VOLTS WHEN ENCLOSED IN FIXTURE). IDEAL INDUSTRIES WIRE NUTS OR APPROVED EQUAL MAY BE USED FOR JOINTS IN WIRE OF #8 GAUGE OR LESS.

K. CONDUCTORS

1. SIZES OF CONDUCTORS FOR FEEDERS ARE GIVEN ON THE DRAWINGS, AND NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED FOR BRANCH LIGHTING OR POWER CIRCUITS. ALL WIRING SHALL HAVE THE U.L. LABEL, AND BE OF 98% CONDUCTIVITY COPPER. ALUMINUM WIRE OR ALUMINUM CABLE IS NOT ACCEPTABLE UNLESS SPECIFICALLY SHOWN ON DRAWINGS.
2. THE GAUGE OF ALL WIRE SHALL BE IN ACCORDANCE WITH B & S STANDARD.
3. ALL WIRE AND CABLE FOR BRANCH LIGHTING OR SMALL POWER CIRCUITS SHALL HAVE "NEC" TYPE "THHN" 600 VOLT INSULATION.
4. WIRE AND CABLE ABOVE #8 GAUGE SHALL BE STRANDED TYPE "THHN" INSULATED 600 VOLTS.

L. CONDUIT AND CABLES

1. ALL CONDUIT SHALL BE RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.
2. CONDUIT AND EMT SHALL BE DELIVERED TO THE BUILDING IN 10 FOOT LENGTHS AND EACH LENGTH SHALL HAVE THE APPROVED UNDERWRITER'S LABORATORIES LABEL.
3. CONDUIT SHALL BE RUN CONCEALED IN ALL FINISHED AREAS OF THE BUILDING AND MAY BE RUN EXPOSED IN UNFINISHED AREAS AT CEILING OR JOIST LEVEL. RUN CONCEALED IN BLOCK WALLS THE EXTENT THAT IS PRACTICAL.
4. EMT CONNECTORS AND COUPLINGS SHALL BE RAIN TIGHT COMPRESSION TYPE (OR SET-SCREW WHERE ACCEPTABLE TO OWNER AND LOCAL CODES) MADE OF STEEL AS MANUFACTURED BY THOMAS & BETTS, STEEL CITY OR APPLETON. BENDS AND OFFSETS SHALL BE MADE WITH A HICKY OR POWER BENDER WITHOUT KINKING OR DESTROYING THE SMOOTH BORE OF THE CONDUIT. PARALLELED CONDUITS SHALL RUN STRAIGHT AND WITH OFFSETS UNIFORM AND SYMMETRICAL. CONDUIT TERMINALS AT BOXES AND CABINETS SHALL BE RIGIDLY SECURED WITH LOCKNUTS AND BUSHINGS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER.
5. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AT NO MORE THAN 10 FT. CONDUIT HANGERS, SUPPORTS, OR FASTENINGS SHALL BE PROVIDED AT EACH CONDUIT ELBOW AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUSPENDED FROM THE CEILING OR CEILING SUSPENSION WIRES.
6. HORIZONTAL AND VERTICAL CONDUIT RUNS SHALL BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, OR OTHER APPROVED METAL DEVICE WITH SUITABLE BOLTS, OR BEAM CLAMPS FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS, CONDUIT SHALL BE SUPPORTED FROM STRUCTURAL STEEL OR JOIST AND INDEPENDENT OF OTHER PIPING. DO NOT SUPPORT CONDUIT FROM METAL ROOF DECK, OR ANY OTHER SUPPORT DEVICE OF ANOTHER TRADE. NON-METALLIC SHEATHED CABLE (ROMEX) OR AC CABLE SHALL NOT BE USED.
7. TYPE MC CABLE MAY BE USED ONLY WHEN CONCEALED IN FINISHED WALLS OR ABOVE CEILING AND WHEN NOT SUBJECT TO PHYSICAL DAMAGE UNLESS ITS USE IS NOT APPROVED BY OWNER OR LOCAL CODES.
8. ONLY SHORT RUNS OF FLEXIBLE METAL CONDUIT LESS THAN 30" IN LENGTH SHALL BE USED FOR TERMINAL CONNECTIONS TO MOTORS, OTHER VIBRATING EQUIPMENT, OR FOR EQUIPMENT WHICH IT IS NOT PRACTICAL TO MAKE FINAL CONNECTION WITH RIGID CONDUIT. FLEXIBLE CONDUIT EXPOSED TO WEATHER SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT.
9. ALL FINAL CONNECTIONS TO VIBRATING OR MOTORIZED EQUIPMENT, INCLUDING GENERATORS & DRY-TYPE TRANSFORMERS, SHALL BE MADE WITH FLEXIBLE METAL CONDUIT SUITABLE FOR THE ENVIRONMENT WHICH IT IS TO BE LOCATED (FMC OR LFMC).
10. THE CONDUIT SYSTEM SHALL CONFORM TO ALL THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

M. GROUNDING

1. THIS CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.
2. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.
3. PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT IS PART OF THIS INSTALLATION SHALL BE PROPERLY BONDED AND GROUNDED IN ACCORDANCE WITH ALL APPLICABLE CODES.
4. MAIN GROUNDING SYSTEM (WHEN APPLICABLE) SHALL BE SIZED TO CONFORM WITH TABLE 250-66 OF THE NATIONAL ELECTRIC CODE. PROVIDE CONDUIT TO PROTECT GROUND WIRE FROM PHYSICAL DAMAGE IF LESS THAN 6 FEET ABOVE FINISHED FLOOR.

N. LIGHTING/APPLIANCE PANELBOARDS AND DISTRIBUTION PANELS

1. DISTRIBUTION PANELS SHALL BE SQUARE "D" CO., TYPE "ILINE" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER.
2. 208/120V PANELS SHALL BE SQUARE "D" CO. TYPE "NQ" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER, WITH TYPE "QOB" BOLT-ON BRANCH CIRCUIT BREAKERS ONLY. BREAKERS SHALL BE BOLTED TO BUS AND CAPABLE OF INTERCHANGING ONE, TWO OR THREE POLE UNITS. MULTIPLE UNITS SHALL HAVE COMMON TRIP. PROVIDE SPARE BREAKERS IN EACH PANEL AS SHOWN. ALL BUSSING SHALL BE 98% CONDUCTIVITY COPPER.
3. 480/277V PANELS SHALL BE SQUARE "D" CO. TYPE "NF" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER WITH BOLT-ON BRANCH CIRCUIT BREAKERS.
4. SHORT CIRCUIT RATINGS OF NEW PANELS SHALL BE AS NOTED ON DRAWINGS, OR AS OTHERWISE DIRECTED BY LOCAL UTILITY COMPANY. UL TESTED AND CERTIFIED SERIES RATINGS ARE ACCEPTABLE WITH WRITTEN DOCUMENTATION SHOWING SERIES RATINGS BUT ONLY IF ACCEPTABLE TO OWNER AND ALL APPLICABLE CODES.

O. GENERAL FOR ALL PANELS

1. METAL FRAMED CARDHOLDERS WITH TYPEWRITTEN CIRCUIT DIRECTORY MUST BE PROVIDED FOR EACH PANEL. DIRECTORY SHALL BE CLEAR AND DESIGNATION SHALL MATCH IDENTIFICATION ON EQUIPMENT. PANELBOARDS (POWER PANELS AND LIGHTING PANELS) SHALL BE WITH IDENTIFICATION LABELED ON PANEL DOOR. PROVIDE ENGRAVED LAMINATED PHENOLIC NAMEPLATES WITH 1/2" LETTERS.
2. ALL PANELS, SAFETY SWITCHES, STARTERS AND IN GENERAL, ALL EQUIPMENT REQUIRING LUGS SHALL BE EQUIPPED WITH SOLDERLESS TYPE U.L. APPROVED LUGS.
3. PROVIDE ALL NECESSARY UNISTRUT, CHANNEL, BACKING AND SUPPORTS TO MOUNT PANELBOARDS SECURELY IN PLACE.
4. SCREW FASTENED HANDLE LOCK-ON DEVICES ARE REQUIRED ON CIRCUIT BREAKERS PROTECTING THE FOLLOWING EQUIPMENT:
   - A. EMERGENCY, EXIT, SECURITY, AND NIGHT LIGHTS.
   - B. HEATING AND COOLING CONTROL CIRCUITS.
   - C. ALL TIME SWITCHES.
   - D. FIRE ALARM CONTROL PANEL & POWER SUPPLIES
5. PROVIDE HINGED (DOOR-IN-DOOR) TRIM FOR ALL NEW PANELBOARDS.

P. TOGGLE SWITCHES AND RECEPTACLES

1. SINGLE POLE AND THREE WAY SWITCHES SHALL BE RATED 20 AMPERE, 277/120 VOLTS, COLOR TO BE BID AS IVORY (FINAL SELECTION BY ARCHITECT) HUBBELL OR EQUAL.
2. SWITCHES SHALL BE MOUNTED 42" ABOVE FINISHED FLOOR TO CENTERLINE. DUPLEX RECEPTACLES SHALL BE AS SPECIFIED ON DRAWINGS.

Q. DISCONNECT SWITCHES

1. AN APPROVED HORSEPOWER RATED, HEAVY DUTY, DISCONNECT SWITCH SHALL BE PROVIDED WITHIN SIGHT OF EACH MOTOR AND EACH HEATING UNIT. PROVIDE FUSED SWITCHES WHERE BRANCH CIRCUIT FUSES ARE NOT SIZED FOR OVERLOAD PROTECTION.
2. SWITCHES ON THE ROOF SHALL BE WEATHERPROOF MOUNTED ON UNISTRUT.
3. SWITCHES SHALL BE LABELED ON THEIR COVER IDENTIFYING THE EQUIPMENT TO BE PROTECTED.
4. PROVIDE WEATHERPROOF JUNCTION BOX AND DISCONNECT IN ACCORDANCE WITH NEC 600 FOR ALL EXTERIOR BUILDING SIGNS (WHERE APPLICABLE).

R. MOTORS AND WIRING

1. PROVIDE DISCONNECT SWITCHES (EXCEPT WHERE SPECIFICALLY SPECIFIED BY (OTHERS) AND RUN POWER CIRCUITS FROM THE PANELBOARD THROUGH DISCONNECT SWITCHES & CONTROL DEVICES TO MOTOR TERMINALS.
2. PROVIDE ALL STARTERS, CONTROLS PUSH BUTTON STATIONS, ETC. NOT SUPPLIED BY OTHERS REQUIRED FOR THE PROPER AND INTENDED OPERATION OF MOTORS AND OR MOTORIZED EQUIPMENT SUPPLIED BY OTHERS.
   - A. THE ABOVE ELECTRICAL EQUIPMENT SHALL BE MOUNTED SECURELY TO WALL OR FRAMES AND THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY BRACKETS, STRUCTURAL PIECES, EXPANSION BOLTS AND OTHER ACCESSORIES REQUIRED.
   - B. WOODEN PLUGS SHALL NOT BE PERMITTED FOR ANCHORING.
   - C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LUBRICATION OF ALL MOTORS.
3. REFER ALSO TO MECHANICAL SPECIFICATIONS FOR WORK BY MECHANICAL CONTRACTOR WHICH MAY RESULT IN ADDITIONAL WORK FOR THIS ELECTRICAL CONTRACTOR.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS TO ALL HVAC EQUIPMENT.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS TO ALL HVAC EQUIPMENT NOT PROVIDED BY OTHERS.
6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL EQUIPMENT (STARTERS, CONTACTORS. ETC.) NOT SUPPLIED BY HVAC CONTRACTOR BUT REQUIRED FOR THE INTENDED OPERATION OF HVAC EQUIPMENT.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT NOT SUPPLIED BY OTHERS. REFER TO MECHANICAL SPECIFICATION AND DRAWINGS FOR ADDITIONAL ELECTRICAL WORK AND COORDINATION.

S. FUSES

1. REPLACE ALL FUSES BLOWN DURING CONSTRUCTION AND TESTING AND PROVIDE A COMPLETE SET OF FUSES IN ALL FUSE HOLDERS, SWITCHES, PANELS, AND ALL OTHER DEVICES REQUIRING FUSES. FUSES SHALL BE CURRENT LIMITING, DUAL ELEMENT TIME DELAY TYPE.
2. PROVIDE OWNER WITH ONE SET OF SPARE FUSES FOR EACH FUSED SWITCH.

T. GUARANTEE

1. IN ADDITION TO WARRANTIES OF EQUIPMENT BY MANUFACTURER THIS CONTRACTOR SHALL ALSO GUARANTEE EQUIPMENT PROVIDED BY HIM AND SHALL BE HELD FOR A PERIOD OF ONE (1) YEAR TO MAKE GOOD ANY DEFECTS IN MATERIALS AND WORKMANSHIP OCCURRING DURING THIS PERIOD, AT HIS SOLE EXPENSE. THE ONE (1) YEAR PERIOD SHALL START FROM DATE OF FINAL ACCEPTANCE BY OWNER.

U. FIELD DRAWING

1. KEEP ONE (1) SET OF WORKING DRAWINGS AND SHOP DRAWINGS AT THE JOB SITE FOR SOLE PURPOSE OF RECORDING ALL CHANGES MADE DURING CONSTRUCTION. AFTER COMPLETION OF THE WORK AND BEFORE REQUESTING FINAL PAYMENT, THE ABOVE MENTIONED DRAWINGS SHALL BE DELIVERED TO THE OWNER.

V. SUBSTITUTION

1. WHENEVER ALTERNATE MATERIALS ARE SPECIFIED, IT IS WITH THE UNDERSTANDING THAT ANY ONE OF THE MATERIALS IS ACCEPTABLE TO THE OWNER. MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED ARE NOT TO BE ASSUMED TO BE SATISFACTORY SUBSTITUTES WITHOUT PRIOR APPROVAL OF THE OWNER AND ARCHITECT/ENGINEER.

W. SHOP DRAWINGS

1. ONLY MANDATORY SHOP DRAWINGS AS LIMITED/OUTLINED HEREIN SHALL BE SUBMITTED.
2. NO WORK SHALL BE COMMENCE UNTIL THE MANDATORY SHOP DRAWINGS HAVE BEEN APPROVED BY THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER SHALL REVIEW SHOP DRAWINGS BEFORE A COPY IS SUBMITTED TO THE OWNER FOR RECORD PURPOSES.
3. ONLY MATERIAL AND EQUIPMENT MANUFACTURERS OF PRODUCTS OR SYSTEMS LISTED BELOW SHALL FURNISH MANDATORY SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT/ ENGINEER PRIOR TO CONTRACTORS PURCHASING EQUIPMENT. SHOP DRAWINGS ARE TO CONTAIN THE FOLLOWING:
   - A. MANUFACTURER'S NAME, MATERIAL DESCRIPTION, SIZES AND DIMENSIONS AND OTHER PERTINENT INFORMATION TO CONFIRM AS A MINIMUM STANDARD FOR EQUIPMENT LISTED IN THE SCHEDULES ON THE DRAWINGS AND OR IN THE SPECIFICATIONS.
4. SUBMIT AN ELECTRONIC COPY (ADOBE .PDF AND/OR AUTOCAD .DWG FILE FORMAT) OF ALL REQUIRED ELECTRICAL SHOP DRAWINGS.
5. THE FOLLOWING SHOP DRAWING SUBMITTALS ARE A MANDATORY REQUIREMENT OF THE OWNER, IF THE FOLLOWING EQUIPMENT IS TO BE INSTALLED:
   - WIRING DEVICES
   - LIGHTING FIXTURES & EMERGENCY LIGHTING FIXTURES
   - DISCONNECT SWITCHES
   - POWER/LIGHTING PANELS
   - MOTOR STARTERS
   - FIRE ALARM DEVICES
   - FIRE ALARM SHOP DRAWING SUBMITTALS INCLUDING VOLTAGE DROP AND BATTERY CALCULATIONS, SEQUENCE OF OPERATIONS MATRIX, & DEVICE SPECIFICATION SHEETS.
   - ENCLOSED CIRCUIT BREAKER

X. ALARM AND DETECTION SYSTEMS

NOT USED

Y. COMMUNICATION SYSTEMS

1. WORK INCLUDES: EMPTY CONDUIT WITH NYLON PULLWIRES AND BOXES FOR 1. UTILITY TELEPHONE WIRING.
2. WORK BY COMMUNICATIONS CONTRACTOR:
   - ALL WIRING FOR TELEPHONE INSTRUMENTS.
   - ALL TELEPHONE INSTRUMENTS

RUDY TITLE & CLOSING

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REVISIONS

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SHEET TITLE

ELECTRICAL SPECIFICATIONS

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