8/25/2025 10:03:51 AM



ST. GEORGE'S EPISCOPAL SCHOOL - PORTEOUS HALL

923 Napoleon Avenue
New Orleans, LA 70115

ARCHITECT
STUDIO WEST

STRUCTURAL/CIVIL
MARAIS CONSULTANTS

MECHANICAL/ELECTRICAL
SYNERGY CONSULTING ENGINEERS

CONTRACTOR
TBD

COVER SHEET

CONSTRUCTION DOCUMENTS
ISSUE DATE | 27 AUGUST 2025
STUDIO WEST PROJECT NO. | 24025

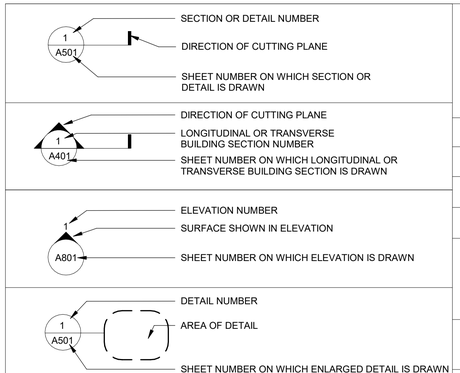
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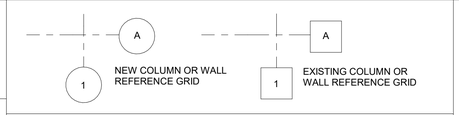
G000

Autodesk Docs://St. George's Campus 2024/24025 - St.Georges - PORTEOUS R24.rvt

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DRAFTING SYMBOLS



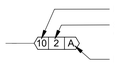


2 / 6.2 — INDICATES SECTION OR DETAIL NO. 2 APPEARING ON THE SHEET NO. 6.2

QQ — WINDOW TYPE / LOUVER TYPE

1585A — DOOR OR OPENING NUMBER

AN-01 — FINISH



PARTITION TYPE
SMOKE PARTITION / FIRE RATING (HOURS). "S" INDICATES SMOKE PARTITION.
PARTITION MODIFIER

8 — REFERENCE NUMBER FOR EQUIPMENT, CONSTRUCTION, ETC. OR ANY INFORMATION TO BE CONVEYED WHICH IS REPETITIVE OR AVAILABLE SPACE PROHIBITS A WRITTEN DESCRIPTION 0F ANY ITEM

12 — ITEMS NOT IN CONTRACT / FURNISHED BY OWNER / INSTALLED BY OWNER / INSTALLED UNDER THIS CONTRACT, ETC. (SEE CLARIFICATION OF THIS SYMBOL FOR ITS USE IN REGARD TO THIS PROJECT)

(09 22 16) — SPECIFICATION REFERENCE (FOUND IN PROJECT MANUAL)

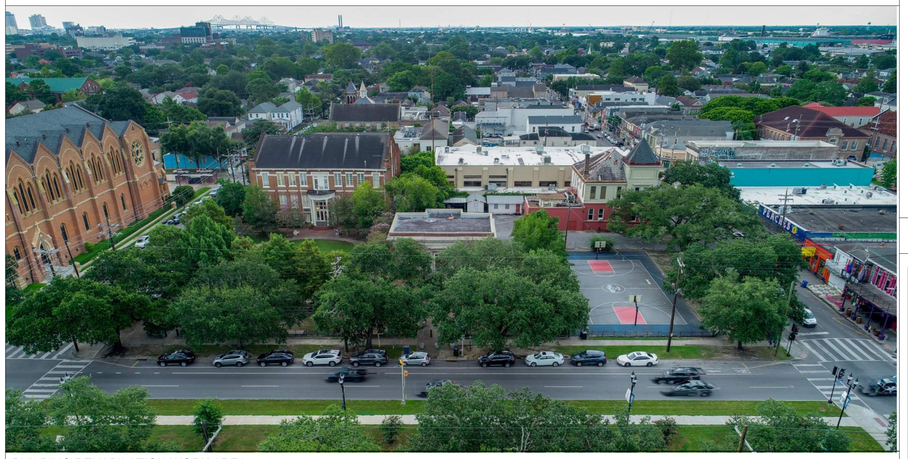
SPECIFICATION REFERENCES ARE INDICATED FOR THE CONTRACTOR'S CONVENIENCE, LACK OF REFERENCE OR MISREFERENCE DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE THAT MATERIAL

36.5' — NEW OR REQUIRED POINT ELEVATION

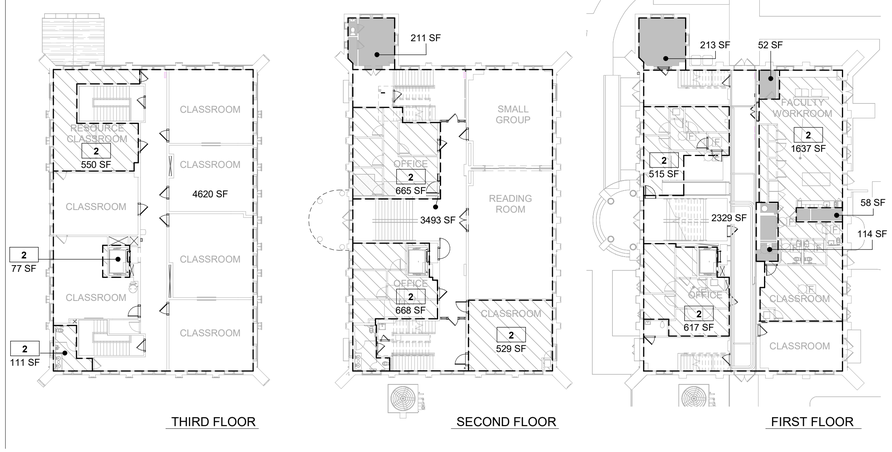
36.5' — EXISTING POINT ELEVATION

16 — INDICATES FOOD SERVICE EQUIPMENT

DRONE PHOTO



BUILDING REHABILATION WORK AREA



BUILDING INFORMATION

PROJECT ADDRESS
923 NAPOLEON AVENUE
NEW ORLEANS, LA 70115

PROJECT DESCRIPTION
INTERIOR RENOVATION ON THREE-STORY SCHOOL BUILDING AND NEW EXTERIOR ADA-COMPLIANT ENTRY RAMP.

LEGAL DESCRIPTION
SQ 230 PT LOT 6 LOTS 7 THRU 10 GEN PERSHING AND CAMP 150X134 PORTEOUS HALL AND LOWER SCHOOL BLDG EXEMPT FILE #48935

BOUNDING STREETS
CAMP STREET, NAPOLEON AVENUE, GENERAL PERSHING STREET (SIDE), MAGAZINE STREET (SIDE)

BUILDING AREA	EXISTING	RENOVATED	NEW
FIRST FLOOR	5,535 SF	2,769 SF	0 SF
SECOND FLOOR	5,566 SF	1,862 SF	0 SF
THIRD FLOOR	5,358 SF	738 SF	0 SF
TOTAL	16,459 SF	5,369 SF	0 SF

MAJOR APPLICABLE CODES AND REGULATIONS
(NOT LIMITED TO THE FOLLOWING)

NFPA 101 LIFE SAFETY CODE	2015
INTERNATIONAL BUILDING CODE	2021
INTERNATIONAL EXISTING BUILDING CODE	2021
INTERNATIONAL MECHANICAL CODE	2021
INTERNATIONAL PLUMBING CODE	2021
NATIONAL ELECTRICAL CODE	2020
COMMERCIAL BUILDING ENERGY CONSERVATION CODE (ASHRAE 90.1)	2021
AMERICANS WITH DISABILITIES ACT ADA-ABA STANDARDS	2010

ZONING CLASSIFICATION

ZONING DISTRICT	HU-RD2, HISTORIC URBAN TWO-FAMILY RESIDENTIAL DISTRIC
FUTURE LAND USE	RLD-PRE, RESIDENTIAL LOW DENSITY PRE-WAR
OVERLAY DISTRICT	CPC CHARACTER PRESERVATION CORRIDOR DESIGN OVERLAY DISTRICT MAGAZINE STREET USE RESTRICTION OVERLAY DISTRICT BED AND BREAKFAST INTERIM ZONING DISTRICT COMMERCIAL SHORT TERM RENTAL INTERIM ZONING DISTRICT NON-COMMERCIAL SHORT TERM RENTAL INTERIM ZONING DISTRICT
HISTORIC DISTRICT	UPTOWN NEW ORLEANS HISTORIC DISTRICT (PARTIAL)
HISTORIC LANDMARK	

SITE AREA
TOTAL SITE AREA 20,100 SF
BUILDING HEIGHT 51' - 9 1/4" TO MID-POINT OF SLOPED ROOF

PROPOSED USES
EDUCATIONAL FACILITY

FLOOD ZONES
ZONE X +6.0
FIRM PANEL: 22071C0236F

OCCUPANCY CLASSIFICATION
EDUCATIONAL PER IBC 305.1; NFPA 6.1.3

CONSTRUCTION TYPE
(IBC) TYPE III-A
(NFPA 220) TYPE III (211)

FIRE PROTECTION

STRUCTURAL FRAME	1 HR
BEARING WALLS	
EXTERIOR	2 HR
INTERIOR	1 HR
NONBEARING WALLS AND PARTITIONS	
EXTERIOR	1 HR (X ≤ 30')
INTERIOR	0 HR
FLOOR CONSTRUCTION	1 HR
ROOF CONSTRUCTION	1 HR
FIRE WALLS	2 HR
HAZARD OF CONTENTS	ORDINARY

FIRE SUPRESSION SYSTEM NOT REQUIRED (PER IBC 903.2.3 FOR GROUP "E" OCCUPANCIES)

FIRE ALARM SYSTEM EXISTING TO BE MODIFIED

BUILDING REHABILITATION COMPLIANCE
NFPA 101, 2015
EXTENT OF WORK - MODIFICATION PER 43.2.2.1.3

IEBC 2021
SCOPE OF WORK - ALTERATION LEVEL 2 (CHAPTER 8)
WORK AREA IS LESS THAN 50% OF THE BUILDING AREA.

NO CHANGE OF USE OR OCCUPANCY.

IECC 2021 COMPLIANCE
ALTERATIONS:
IEBC ALTERATION LEVEL 2 SECTION 809:
CONFORMANCE TO ENERGY REQUIREMENTS FOR NEW CONSTRUCTION ONLY.

IECC CHAPTER 4 COMPLIANCE:
C401 GENERAL:
COMPLIANCE METHOD: PRESCRIPTIVE COMPLIANCE.

C402 BUILDING ENVELOPE:
MODIFICATIONS TO EXISTING COMPLIES.

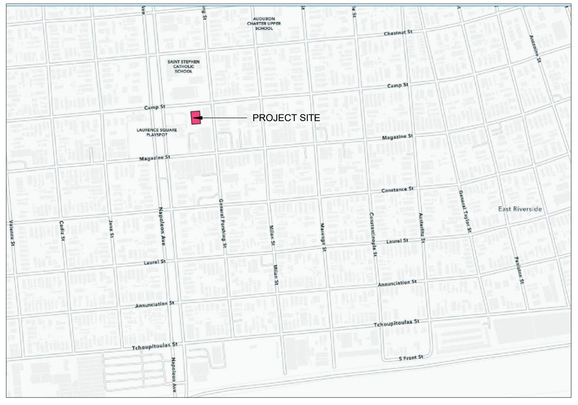
C403 BUILDING MECHANICAL SYSTEMS:
NEW EQUIPMENT COMPLIES, SEE SHEET M001

C404 SERVICE WATER HEATING:
NEW EQUIPMENT COMPLIES, SEE SHEET P001

C405 ELECTRICAL POWER AND LIGHTING SYSTEMS:
NEW EQUIPMENT COMPLIES, SEE SHEET E001

C406 ADDITIONAL EFFICIENCY REQUIREMENTS:
NOT REQUIRED FOR ALTERATIONS.

SITE MAP



BUILDING REHABILITATION COMPLIANCE

FLOOR	INCIDENTAL WORK AREA	LEVEL 2 FLOOR AREA	TOTAL FLOOR AREA	LEVEL 2 SCOPE PERCENTAGE
FIRST FLOOR	2329 SF	2769 SF	5535 SF	50%
SECOND FLOOR	3493 SF	1862 SF	5566 SF	33%
THIRD FLOOR	4620 SF	738 SF	5358 SF	14%

AREA OF INCIDENTAL WORK

LEVEL 2 ALTERATION

NO SCOPE OF WORK

INDEX OF DRAWINGS

G000	COVER SHEET
G001	INFORMATION SHEET
G002	STANDARDS
G003	ENERGY CODE COMPLIANCE
G004	SURVEY & BASE FLOOD ELEVATION
G201	LIFE SAFETY PLANS
A001	SITE PLAN - DEMOLITION
A002	SITE PLAN
A011	SITE PLAN & ELEVATIONS - RAMP
A101	FIRST AND SECOND FLOOR DEMOLITION PLANS
A102	THIRD FLOOR & ROOF DEMOLITION PLAN
A131	FIRST AND SECOND FLOOR REFLECTED CEILING PLANS - DEMOLITION
A132	THIRD FLOOR & ROOF REFLECTED CEILING PLAN - DEMOLITION
A201	FIRST AND SECOND FLOOR PLANS
A202	THIRD FLOOR PLAN AND ATTIC PLAN
A203	ROOF PLAN
A300	LIGHTING SCHEDULES
A301	FIRST AND SECOND FLOOR REFLECTED CEILING PLAN
A302	THIRD FLOOR REFLECTED CEILING PLAN
A401	EXTERIOR ELEVATIONS
A410	CROSS SECTION
A600	FINISH SCHEDULE
A601	FINISH PLANS - FIRST AND SECOND FLOOR
A602	FINISH PLAN - THIRD FLOOR
A610	DOOR & FRAME AND WINDOW SCHEDULE
A611	DOOR & FRAME AND WINDOW DETAILS
A615	PLUMBING FIXTURES & ACCESSORIES SCHEDULES
A620	CLARIFICATION OF PARTITION TYPES
A621	FLOOR TRANSITION AND BASE DETAILS
A701	VERTICAL CIRCULATION
A801	TOILET ROOMS FACULTY - FIRST FLOOR
A802	TOILET ROOMS GIRLS - SECOND FLOOR
A803	TOILET ROOMS BOYS - THIRD FLOOR
A810	ENLARGED PLAN & ELEVATIONS - FIRST FLOOR FACULTY LOUNGE
A811	MILLWORK - FACULTY LOUNGE
A812	INTERIOR ELEVATIONS - FIRST FLOOR
A820	INTERIOR ELEVATIONS - SECOND FLOOR
A821	INTERIOR ELEVATIONS - SECOND FLOOR LIBRARY
A850	CEILING DETAILS
S000	GENERAL NOTES (1 OF 2)
S001	GENERAL NOTES (2 OF 2)
S101	1ST FLOOR PLAN
S102	2ND & 3RD FLOOR FRAMING PLAN
S103	ATTIC FRAMING PLAN
S200	RAMP SECTION AND DETAILS
P000	PLUMBING TITLE SHEET
P001	PLUMBING - SPECIFICATIONS AND ENERGY CODE REQUIREMENTS
P100	PLUMBING - UNDERGROUND FLOOR PLAN - DEMOLITION
P101	PLUMBING - FIRST AND SECOND FLOOR PLAN - DEMOLITION
P102	PLUMBING - THIRD FLOOR PLAN - DEMOLITION
P200	PLUMBING - UNDERGROUND FLOOR PLAN
P201	PLUMBING - FIRST AND SECOND FLOOR PLAN
P202	PLUMBING - THIRD FLOOR PLAN AND ROOF PLAN
P501	PLUMBING - DETAILS
P502	PLUMBING - DETAILS
P701	PLUMBING - SANITARY RISER DIAGRAM
M000	HVAC TITLE SHEET
M001	ENERGY CODE REQUIREMENT
M002	ENERGY CODE REQUIREMENT
M003	ENERGY CODE REQUIREMENT
M004	HVAC SPECIFICATIONS
M101	HVAC - FIRST AND SECOND FLOOR PLAN - DEMOLITION
M102	HVAC - THIRD FLOOR PLAN - DEMOLITION
M201	HVAC - FIRST AND SECOND FLOOR PLAN
M202	HVAC - THIRD FLOOR PLAN AND ROOF PLAN
M401	HVAC SCHEDULES
M402	HVAC SCHEDULES
M501	HVAC DETAILS
M502	HVAC DETAILS
M503	HVAC DETAILS
M504	HVAC DETAILS
E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SPECIFICATIONS
E002	ENERGY CODE REQUIREMENTS
E101	ELECTRICAL - FIRST AND SECOND FLOOR PLAN - DEMOLITION
E102	ELECTRICAL - THIRD FLOOR PLAN - DEMOLITION
E131	ELECTRICAL - FIRST AND SECOND FLOOR REFLECTED CEILING PLAN - DEMOLITION
E132	ELECTRICAL - THIRD FLOOR REFLECTED CEILING PLAN - DEMOLITION
E201	POWER & SYSTEMS - FIRST AND SECOND FLOOR PLAN
E202	POWER & SYSTEMS - THIRD FLOOR AND ATTIC PLAN
E301	LIGHTING & SYSTEMS - FIRST AND SECOND FLOOR REFLECTED CEILING PLAN
E302	LIGHTING & SYSTEMS - THIRD FLOOR REFLECTED CEILING
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES
E602	PANELBOARD SCHEDULES

TOTAL NUMBER OF SHEETS: 85

PROJECT DIRECTORY

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ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 24025

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ISSUE DATE | 27 AUGUST 2025
CONSTRUCTION DOCUMENTS
REVISIONS

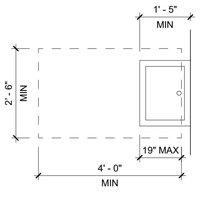
INFORMATION SHEET

G001

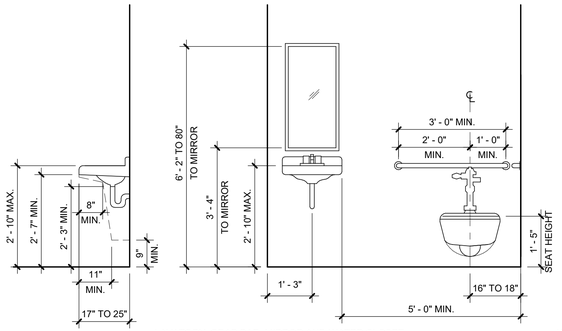
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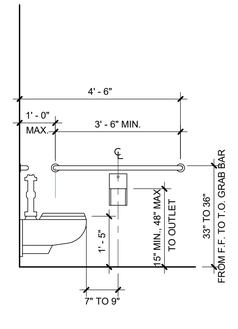
STANDARD MOUNTING HEIGHTS AND CLEARANCES



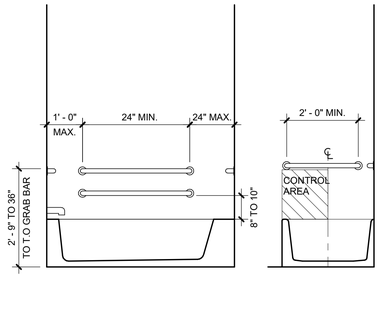
LAVATORY CLEAR FLOOR SPACE



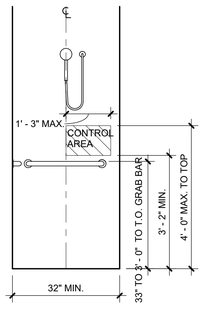
LAVATORY, GRAB BAR, MIRROR AND WATER CLOSET
ADA COMPLIANT MOUNTING HEIGHTS.



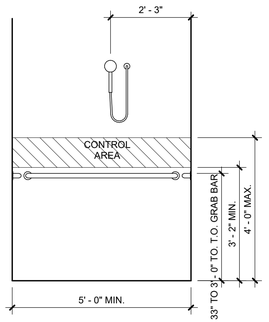
WATER CLOSET, GRAB BAR AND TOILET PAPER DISPENSER
ADA COMPLIANT MOUNTING HEIGHTS



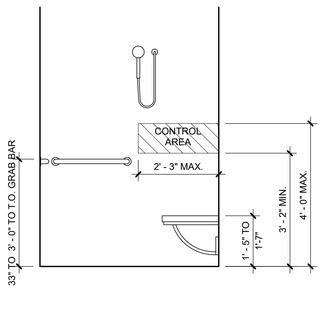
BATHTUB WITHOUT PERMANENT SEATING, GRAB BARS
ADA COMPLIANT MOUNTING HEIGHTS



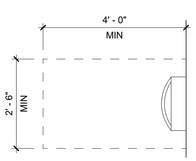
TRANSFER TYPE SHOWER COMPARTMENT
CONTROL LOCATION



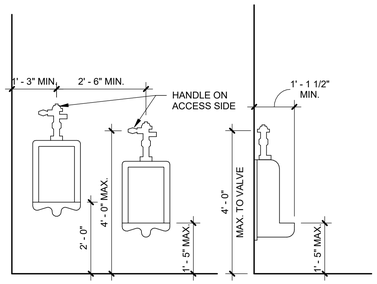
STANDARD ROLL-IN-TYPE SHOWER
COMPARTMENT CONTROL LOCATION



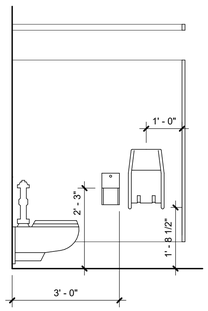
STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT WITH SEAT
CONTROL LOCATION



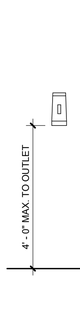
URINAL CLEARANCES



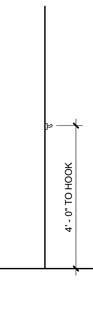
URINALS
STANDARD AND ADA MOUNTING HEIGHTS



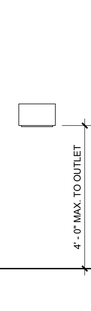
WATER CLOSET, FOLDING CHILD PROTECTION
SEAT AND TOILET PAPER DISPENSER
STANDARD MOUNTING HEIGHTS



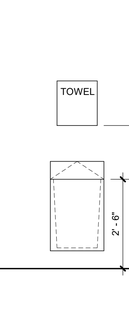
SOAP
DISPENSER



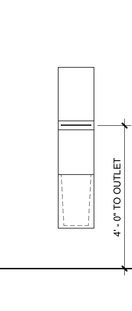
ROBE
HOOK



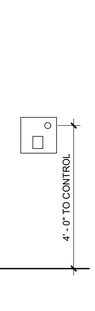
PAPER TOWEL
DISPENSER



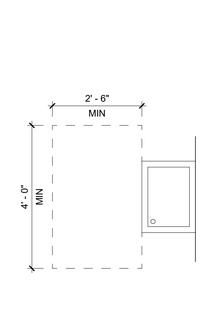
LARGE PAPER TOWEL
DISPENSER AND RECEPTACLE



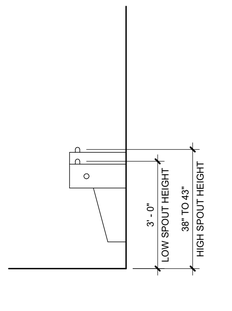
PAPER TOWEL
DISPENSER/ RECEPTACLE



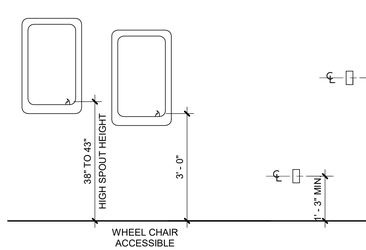
ELECTRIC
HAND DRYER



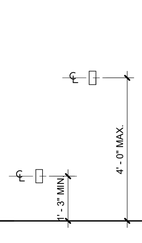
FREE STANDING FOUNTAIN OR COOLER



ADA COMPLIANT WATER COOLERS
FRONT OR SIDE APPROACH, SURFACE

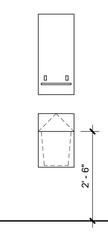


ADA COMPLIANT WATER COOLERS
SIDE APPROACH, RECESSED

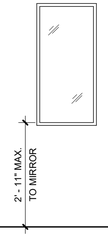


ELECTRICAL
OUTLET

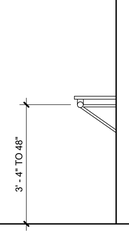
THERMOSTAT
OR LIGHT
SWITCH



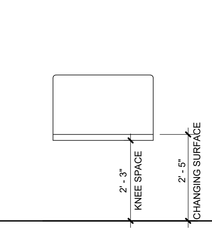
SANITARY NAPKIN
DISPENSER AND
RECEPTACLE



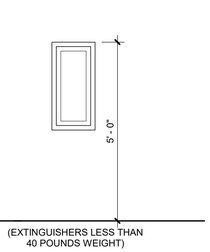
ADA
FULL LENGTH MIRROR



SHELF



ADA COMPLIANT FOLDING DIAPER CHANGING
DECK STANDARD MOUNTING HEIGHT



FIRE EXTINGUISHER
CABINET

STANDARD ABBREVIATIONS

&	And
@	At
#	Pound or Number
ABV	Above
A/C	Air Conditioning
ACP	Acoustic Ceiling Panel
AD	Area Drain
ADD	Addendum
ADJ	Adjacent
AFF	Above finished floor
AHU	Air Handling Unit
ALUM	Aluminum
ALT	Alternate
ANOD	Anodized
APPROX	Approximate
APT	Apartment
ARCH	Architect (ural)
AUTO	Automatic
AVE	Avenue
AVG	Average
BAL	Balance
BD	Board
BEL	Below
BFE	Base Flood Elevation
BIT	Bituminous
BLDG	Building
BLK	Block
BLKG	Blocking
BM	Bench Mark
BO	By Others/Owner
BR	Bedroom
BRK	Brick
BRZ	Bronze
BUR	Built-up Roofing
BYND	Beyond
C	Celsius, Degree
CH	Channel
C to C	Center to Center
CAB	Cabinet
CB	Catch Basin
CCTV	Closed Circuit Television
CEM	Cement
CF	Cubic Foot
CFCI	Contractor Furnished Contractor Installed
CFOI	Contractor Furnished Owner Installed
CFM	Cubic Feet Per Minute
CG	Corner Guard
CHAM	Chamfer
CHEM	Chemical, Chemistry
CIP	Cast-In-Place
CIR	Circle
CJ	Control Joint
CL	Center Line
CLG	Ceiling
CH	Ceiling Height
CLR	Clear or Clearance
CM	Centimeter(s)
CM	Construction Manager
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
COND	Condenser or Condensate
CONF	Conference
CONT	Continuous
COORD	Coordinate
CORR	Corrugated
CPT	Carpet(ed)
CF	Cubic Foot (feet)
CY	Cubic Yard
CW	Cold Water
DRN	Drain
DBL	Double
DBL ACT	Double Acting
DC	Direct Current
DEG	Degree
DEMO	Demolish, Demolition
DEPT	Department
DF	Drinking Fountain (Non-electric)
DIA	Diameter
DIAG	Diagonal
DIM	Dimension
DIV	Division
DN	Down
DS	Downspout
DTL	Detail
DWG	Drawing(s)
E	East
EA	Each
EF	Exhaust Fan
EG	Exhaust Grille
EIFS	Ext. Insulation & Finish System
EJ	Expansion Joint
EL or ELEV	Elevation
ELAS	Elastomeric
ELEC	Electrical
ELEV	Elevator
EMER	Emergency
ENTR	Entrance
EPDM	Ethylene Propylene Diene M-Class (Roofing)
EQ	Equal
EQUIP	Equipment
EXT	Exterior
F	Fahrenheit
FA	Fire Alarm
FAB	Fabric
FB	Face Brick
FBD	Fiberboard
FD	Floor Drain
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Finished Floor
FF&E	Furniture, Fixtures & Equip.
FHC	Fire Hose Cabinet
FIN	Finish
FIX	Fixture
FLR	Floor
FO	Face Of
FP	Fireproof
FT	Foot, Feet
FTG	Footing
FURN	Furnish
GA	Gage or Gauge
GALV	Galvanized
GC	General Contract(or)
GEN	Generator
GLU-LAM	Glued-Laminated
GWB	Gypsum Wallboard
GYP	Gypsum
GYP BD	Gypsum Board
HB	Hose Bib
HC	Hollow Core
HD	Head
HGT	Height
HM	Hollow Metal
HORIZ	Horizontal
HP	Horsepower
HR	Hour
HT	Height
HVAC	Heating, Ventilating, Air Conditioning
HW	Hot Water
HWH	Hot Water Heater
HWY	Highway
HYD	Hydrant
ILLUM	Illumination
IN	Inches
INCL	Include(d)(ing)
INFO	Information
INSUL	Insulation
INT	Interior
INV	Invert
INV EL	Invert Elevation
JAN	Janitor
JAN CLO	Janitor's Closet
JB	Junction Box
JST	Joist
JT	Joint
K	Kips
KD	Knocked Down
KIT	Kitchen
KW	Kilowatts
L	Length
LAB	Laboratory
LAM	Laminated
LAV	Lavatory
LB	Lag Bolt
LG	Large
LH	Left Hand
LIN	Linear
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LONG	Longitudinal
LVR	Louver
LWC	Lightweight Concrete
MTL FUR	Metal Furring
MEZZ	Mezzanine
MDF	Medium Density Fiber Board
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MIN	Minute
MISC	Miscellaneous
MIX	Mixture
MM	Millimeter
MTL	Metal
N	North
NA	Not Applicable
NE	Northeast
NIC	Not In Contract
NO	Number
NOM	Nominal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
NW	Northwest
OC	On center
OFF	Office
OFCI	Owner Furnished Contractor Installed
OFOI	Owner Furnished Owner Installed
OH	Overhead
OPP	Opposite
ORIG	Original
PCF	Pounds per Cubic Foot
PED	Pedestal
PERF	Perforated
P/LF	Pounds per Lineal Foot
PL	Plate
PLAM	Plastic Laminate
PLAS	Plaster
PLUMB	Plumbing
PLY WD	Plywood
PNL	Panel
PNT	Paint or Painted
PRELIM	Preliminary
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Post-tensioned
PVC	Polyvinyl Chloride
PVMT	Pavement
QT	Quarry Tile
R	Riser
R or RAD	Radius
RA	Return Air
RB	Rubber Base
RBR	Rubber
RBT	Rubber Tile
RD	Roof drain
RE or REF	Reference
REBAR	Reinforcing Bar
RECT	Rectangular
REF	Reference
REFRIG	Refrigerator
REINF	Reinforc(ing)(ed)
REQD	Required
REV	Revision
RH	Right hand
RM	Room
RO	Rough Opening
S	South
SA	Supply Air
SC	Solid Core
SHT	Sheet
SIM	Similar
SPEC	Specification
SQ	Square
SQ FT or SF	Square Foot
SS	Stainless Steel
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
SIM	Similar
SYM	Symmetry(ical)
T	Tread
T & G	Tongue and Groove
T/D	Telephone/Data
TEL	Telephone
THERM	Thermal
THK	Thick(ness)
TOB	Top of Beam
TOC	Top of Curb, Top of Concrete
TOD	Top of Deck
TOF	Top of Footing
TOP	Top of Pier
TOS	Top of Steel
TOW	Top of Wall
TOSL	Top of Slab
TV	Television
TYP	Typical
TER	Terrazzo
UL	Underwriters Laboratories
UNF	Unfinished
UNO	Unless Noted Otherwise
UTIL	Utility
V	Volt
VAL	Value
VB	Vinyl Base
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIF	Verify In Field
VIN	Vinyl
VOL	Volume
VWC	Vinyl Wall Covering
W	West
W	Wide, Width
W/	With
W/O	Without
WB	Wood Base
WC	Water closet
WD	Wood
WF	Wide Flange
WH	Water Heater or Wall Hung
WSCT	Wainscot
WWF	Welded Wire Fabric
YD	Yard

STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 24025

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STANDARDS

G002

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2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C402/503.2	Building Envelope Requirements				
C402.1.3	Insulation Component R-Value Based Method	Opaque thermal envelope insulation component minimum requirements	Design Complies. No work at roof, elevated floors, above-grade walls or below-grade walls.	Shall meet efficiency requirements of table C402.1.3 for climate zone 2A	N/A
C402.2.2	Above-Grade Walls	Minimum thermal resistance	No modifications will be made to the above-grave walls.	The minimum thermal resistance (R-value) of materials installed in the wall cavity between framing members and continuously on the walls shall be as specified in Table C402.1.3, based on framing type and construction materials used in the wall assembly. Wood framed in climate 2A has a minimum requirement of R13 cavity insulation and R6.5ci - or- R-20 Cavity INsulation	N/A
C402.4	Fenestration	Maximum U-factor and SHGC	No modifications will be made to the existing fenestration.	Fenestration shall comply with Sections C402.4.1 through C402.4.5 and Table C402.4. In climate zone 2, the maximum U-value is 0.45 for fixed fenestration and 0.77 for entrance doors. Per IECC 801.3, Level 2 alterations to existing buildings or structures are permitted without requiring the entire building or structure to comply with the energy requirements of the IECC. The alterations shall conform to the energy requirements of the IECC as they relate to new construction only.	N/A
C503.2.2 C402.4.1.1	Fenestration	Maximum area	Design Complies. Component performance alternative per C402.1.5 as allowed for replacement. 16.3% total vertical fenestration area.	Building envelope values and fenestrations areas determined in accordance with Equation 4 2 shall be an alternative to compliance with the U-, F- and C-factors in Tables C402.1.4 and C402.4 and the maximum allowable fenestration areas in Section C402.4.1. Fenestration shall meet the applicable SHGC requirements of Section C402.4.3. Maximum SHGC shall be 0.25 for Fixed openings with a PF<0.2.	See Exterior Elevations on Sheet A401
C402.4.5	Doors	Minimum compliance	No modifications will be made to the existing doors.	Opaque swinging doors shall comply with Table C402.1.4. Opaque nonswinging doors shall comply with Table C402.1.4. Opaque doors shall be considered as part of the gross area of above-grade walls that are part of the building thermal envelope. Opaque Doors shall comply with Section C402.4.5.1 or C402.4.5.2. Other doors shall comply with the provisions of Section C402.4.3 for vertical fenestration. Max U-value of 0.37 per Table C402.1.4.	N/A
C402.5	Air Leakage	Thermal envelope	See Sections below	The building thermal envelope shall comply with Sections C402.5.1 through Section C402.5.11.1	See sections below
C402.5.1	Air Leakage	Air barriers	Design complies as applicable, see below. No modifications will be made to the building envelope.	A continuous air barrier shall be provided throughout the building thermal envelope. The continuous air barriers shall be located on the inside or outside of the building thermal envelope, located within the assemblies composing the building thermal envelope, or any combination thereof. the air barrier shall comply wiht Section C402.5.1.1	See General Notes
C402.5.7	Air Leakage	Air intakes, exhaust openings, stairways and shafts	Design complies. Dampers Provided.	Stairway enclosures, elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope shall be provided with dampers in accordance with Section C403.7.7	See Sheet M001-003

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ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
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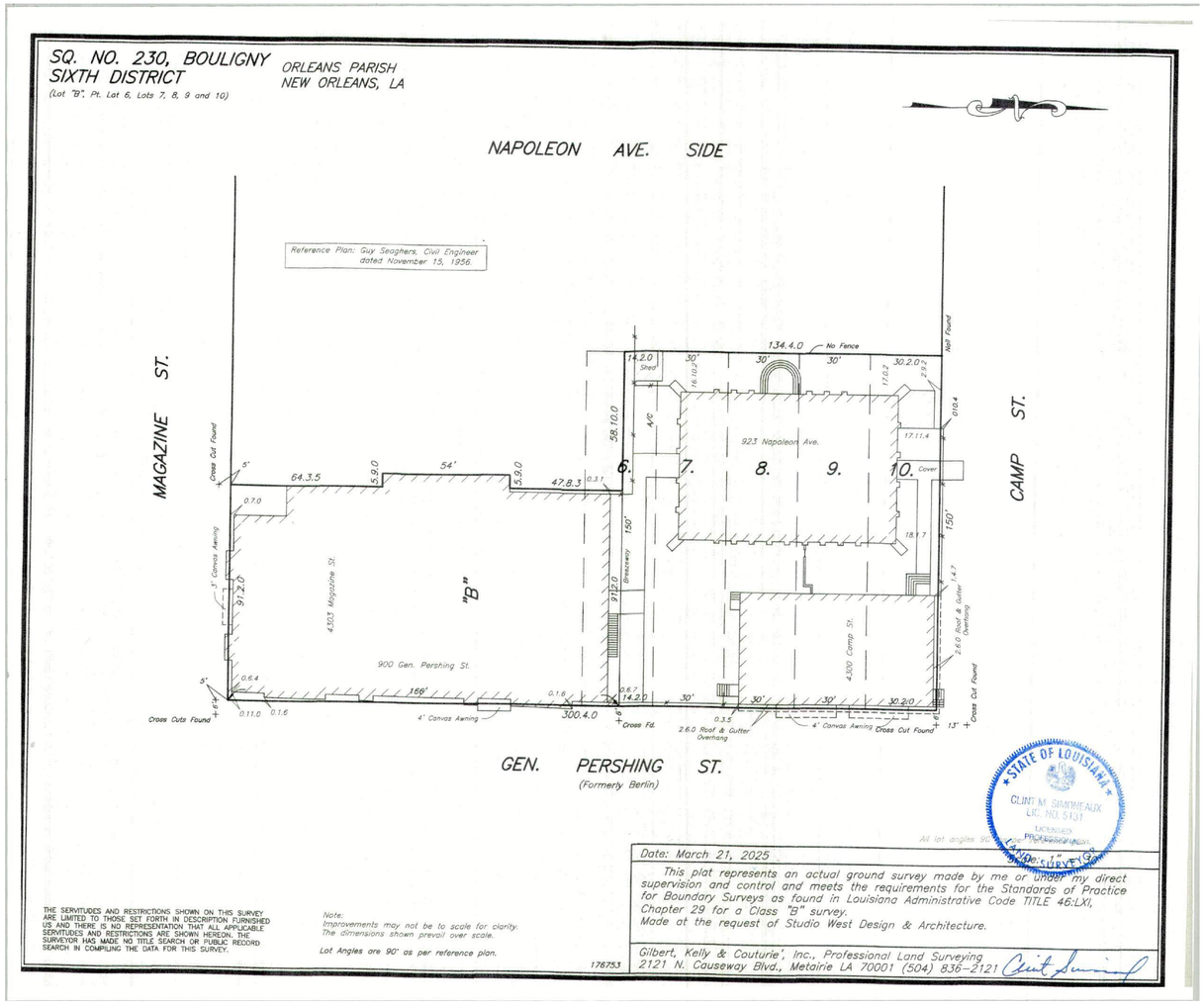
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ENERGY CODE COMPLIANCE

G003

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U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

OMB Control No. 1660-0008
Expiration Date: 06/30/2026

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number:

A1. Building Owner's Name: None

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 923 NAPOLEON AVENUE,

City: NEW ORLEANS State: LA ZIP Code: 70115

A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number: Subdivision BOULIGNY District SIXTH Lot 8,7,8,9,10 Square 230

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Non-residential

A5. Latitude/Longitude: Lat. 29.9216 Long. -90.100611 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983 ☐ WGS 84

A6. Attach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8).

A7. Building Diagram Number: 1A

A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s): N/A sq. ft.

b) Is there at least one permanent flood opening on two different sides of each enclosed area? ☐ Yes ☐ No ☒ N/A

c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade:
Non-engineered flood openings: N/A Engineered flood openings: N/A

d) Total net open area of non-engineered flood openings in A8.c: N/A sq. in.

e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions): N/A sq. ft.

f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): N/A sq. ft.

A9. For a building with an attached garage:

a) Square footage of attached garage: N/A sq. ft.

b) Is there at least one permanent flood opening on two different sides of the attached garage? ☐ Yes ☐ No ☒ N/A

c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade:
Non-engineered flood openings: N/A Engineered flood openings: N/A

d) Total net open area of non-engineered flood openings in A9.c: N/A sq. in.

e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): N/A sq. ft.

f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): N/A sq. ft.

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1.a. NFIP Community Name: CITY OF NEW ORLEANS B1.b. NFIP Community Identification Number: 225203

B2. County Name: ORLEANS B3. State: LA B4. Map/Panel No.: 22071C0236 B5. Suffix: F

B6. FIRM Index Date: 9/30/2016 B7. FIRM Panel Effective/Revised Date: 9/30/2016

B8. Flood Zone(s): X B9. Base Flood Elevation(s) (BFE) (Zone AO, use Base Flood Depth): NONE

B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9:
☐ FIS ☒ FIRM ☐ Community Determined ☐ Other:

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source:

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: ☐ CBRS ☐ OPA

B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? ☐ Yes ☒ No

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 923 NAPOLEON AVENUE,

City: NEW ORLEANS State: LA ZIP Code: 70115

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number:

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: AUCO Vertical Datum: NAVD '88

Indicate elevation datum used for the elevations in items a) through h) below.
☐ NGVD 1929 ☒ NAVD 1988 ☐ Other:

Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? ☐ Yes ☒ No
If Yes, describe the source of the conversion factor in the Section D Comments area.

		Check the measurement used:
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):	6.0	☒ feet ☐ meters
b) Top of the next higher floor (see Instructions):	15.0	☒ feet ☐ meters
c) Bottom of the lowest horizontal structural member (see Instructions):	N/A	☒ feet ☐ meters
d) Attached garage (top of slab):	N/A	☒ feet ☐ meters
e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area):	5.9	☒ feet ☐ meters
f) Lowest Adjacent Grade (LAG) next to building: ☐ Natural ☒ Finished	5.7	☒ feet ☐ meters
g) Highest Adjacent Grade (HAG) next to building: ☐ Natural ☒ Finished	5.8	☒ feet ☐ meters
h) Finished LAG at lowest elevation of attached deck or stairs, including structural support:	N/A	☒ feet ☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by state law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☒ No

☐ Check here if attachments and describe in the Comments area.

Certifier's Name: Louis C. Hartmann License Number: 4995

Title: Professional Land Surveyor

Company Name: Gilbert, Kelly & Couturié, Inc.

Address: 2121 N. Causeway Blvd., Suite 121

City: Metairie State: LA ZIP Code: 70001

Signature: Date: 3/21/2025

Telephone: (504) 836-2121 Ext.: Email: louie@gkcsurveyors.com

Place Seal Here

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments):
SECTION C2E IS A/C COMPRESSORS, THE CENTERLINE OF THE STREET IS 5.20 NAVD., THERE ARE NO CURBS.

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PORTEOUS BUILDING

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SURVEY & BASE FLOOD ELEVATION

G004

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2021 INTERNATIONAL BUILDING CODE
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (TABLE 2902.1)

CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
			MALE	FEMALE	MALE	FEMALE			
BUSINESS	B	Offices	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		-	1 per 100	1 service sink
EDUCATIONAL	E	Educational facilities	1 per 50		1 per 50			1 per 100	1 service sink

PLUMBING FIXTURE CALCULATIONS

	OCC. TYPE	TOTAL OCC.	WC		LAV		DF
			M	F	M	F	
FIRST FLOOR	B	19	0.38	0.38	0.24	0.24	0.19
	E	43	0.43	0.43	0.43	0.43	0.43
SECOND FLOOR	B	11	0.22	0.22	0.14	0.14	0.11
	E	61	0.61	0.61	0.61	0.61	0.61
THIRD FLOOR	E	190	1.90	1.90	1.90	1.90	1.90
TOTAL REQUIRED			3.54	3.54	3.32	3.32	3.24
TOTAL PROVIDED			4.00	4.00	4.00	4.00	3.00

TRAVEL DISTANCES

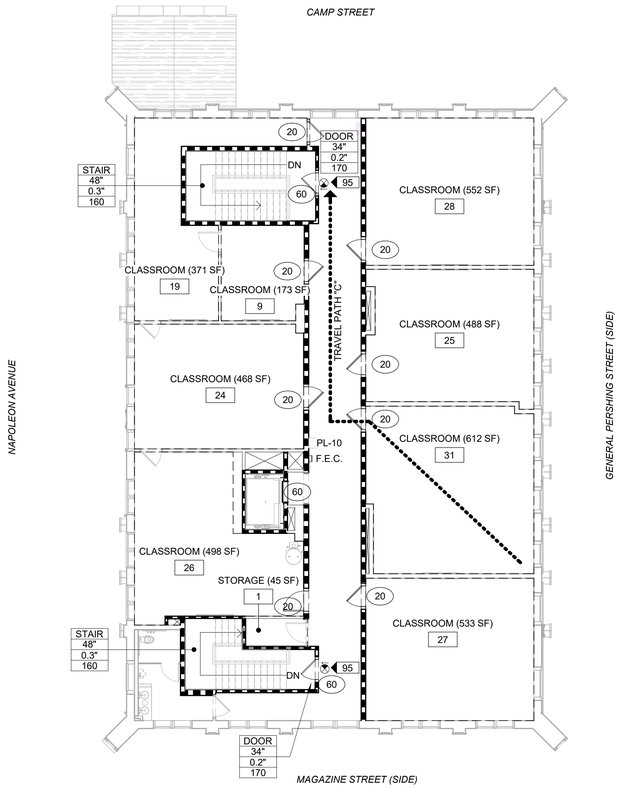
PATH	LENGTH
A	77' - 2"
B	55' - 0"
C	71' - 2"

OCCUPANCY CLASSIFICATION

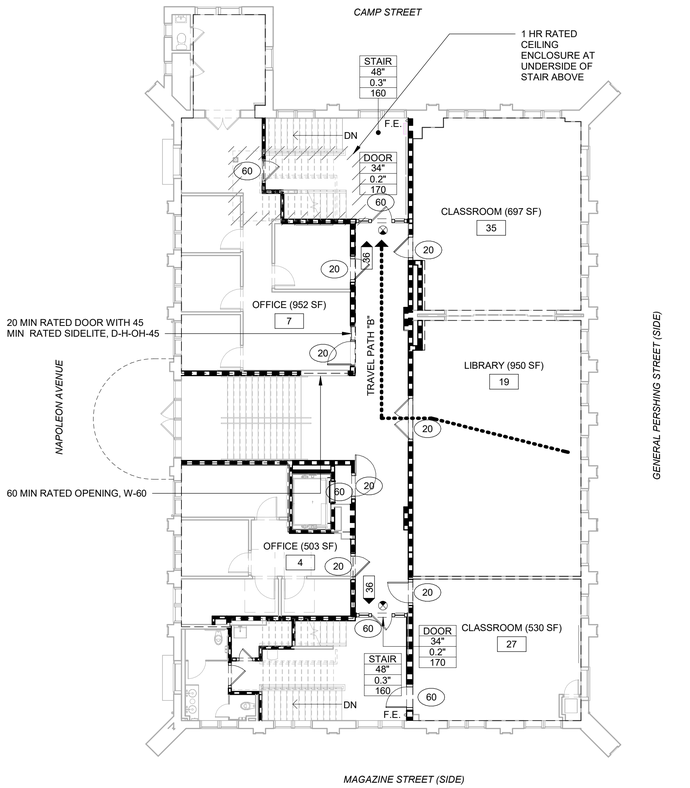
OCCUPANCY TYPE	AREA PER OCCUPANT
BUSINESS	100 SF
CIRCULATION / COMMON	0 SF
CLASSROOM	20 SF
LIBRARY (READING ROOM)	50 SF
MECHANICAL	300 SF
STORAGE	300 SF

AREA & OCCUPANCY PER FLOOR

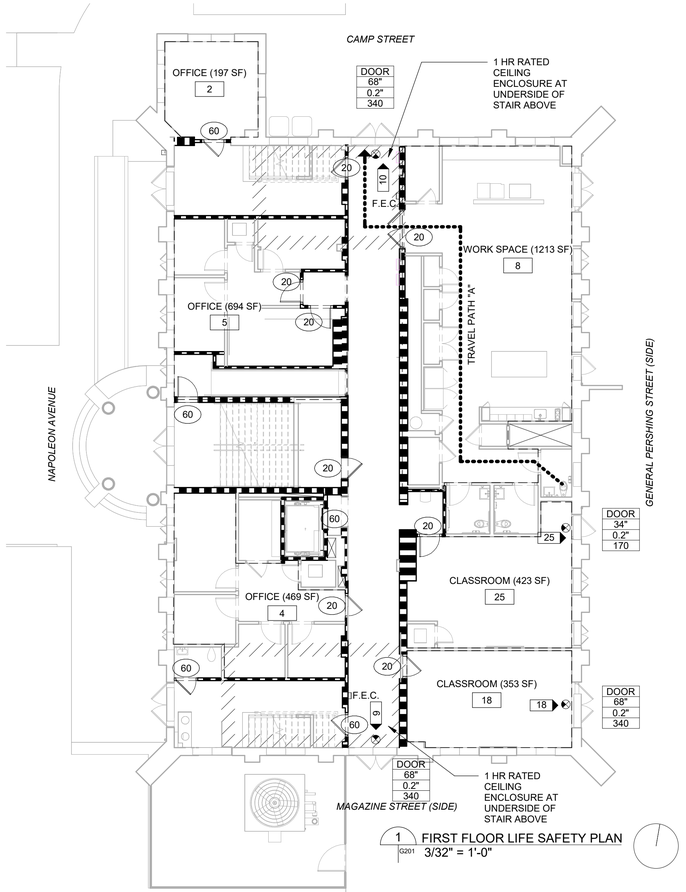
AREA NAME	AREA	AREA PER OCC.	NO. OF OCC.
FIRST FLOOR			
WORK SPACE	1213 SF	100 SF	13
OFFICE	197 SF	100 SF	2
OFFICE	694 SF	100 SF	7
OFFICE	469 SF	100 SF	5
CLASSROOM	423 SF	20 SF	22
CLASSROOM	353 SF	20 SF	18
	3349 SF		67
SECOND FLOOR			
CLASSROOM	697 SF	20 SF	
OFFICE	952 SF	100 SF	10
OFFICE	503 SF	100 SF	6
CLASSROOM	530 SF	20 SF	27
LIBRARY	950 SF	50 SF	19
	3631 SF		62
THIRD FLOOR			
STORAGE	45 SF	200 SF	1
CLASSROOM	533 SF	20 SF	27
CLASSROOM	612 SF	20 SF	31
CLASSROOM	488 SF	20 SF	25
CLASSROOM	552 SF	20 SF	28
CLASSROOM	173 SF	20 SF	9
CLASSROOM	371 SF	20 SF	19
CLASSROOM	468 SF	20 SF	24
CLASSROOM	498 SF	20 SF	26
	3739 SF		190
TOTAL	10719 SF		319



3 THIRD FLOOR LIFE SAFETY PLAN
G201 3/32" = 1'-0"



2 SECOND FLOOR LIFE SAFETY PLAN
G201 3/32" = 1'-0"



1 FIRST FLOOR LIFE SAFETY PLAN
G201 3/32" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

CLARIFICATION OF SYMBOLS
FIRE EXTINGUISHER (10 44 00)

- F.E.C — RECESSED FIRE EXTINGUISHER CABINET
- F.E.C (SC) — SEMI-RECESSED FIRE EXTINGUISHER CABINET
- F.E.C (SM) — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- F.E. — WALL HUNG FIRE EXTINGUISHER

CLARIFICATION OF SYMBOLS FIRE RESISTIVITY AND EXITING

- 60 — FIRE RATING OF OPENING PROTECTIVE IN MINUTES
- S — SMOKE PARTITION DOOR NFPA 101:8.4
- ROUTE OF MAXIMUM COMMON PATH OR TRAVEL DISTANCE
- 10' — MEASURED DISTANCE OF EXIT SEPARATION
- 30 — CUMULATIVE OCCUPANT LOAD OF ROOM OR AREA
- OCCUPANCY (150 SF) — FUNCTION OF SPACE AREA IN SQUARE FOOT
- 200 — OCCUPANT LOAD OF ROOM OR AREA
- DOOR / 34" / 0.2" / 170 — EGRESS COMPONENT; CLEAR WIDTH OF EGRESS COMPONENT; EGRESS CAPACITY FACTOR; EGRESS CAPACITY
- 50 — OCCUPANT LOAD USED TO DETERMINE EXITING WIDTH
- SMOKE PARTITION
- 30 MIN. FIRE RATED PARTITION
- ONE HR FIRE RATED PARTITION
- TWO HR FIRE RATED PARTITION
- ONE HR FIRE RATED FIRE AREA SEPARATION

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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LIFE SAFETY PLANS

G201

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DEMO



REMOVE EXISTING BRICK VENEER TREADS & RISERS

RETAIN EXISTING CAST-IN-PLACE CONCRETE

INFILL

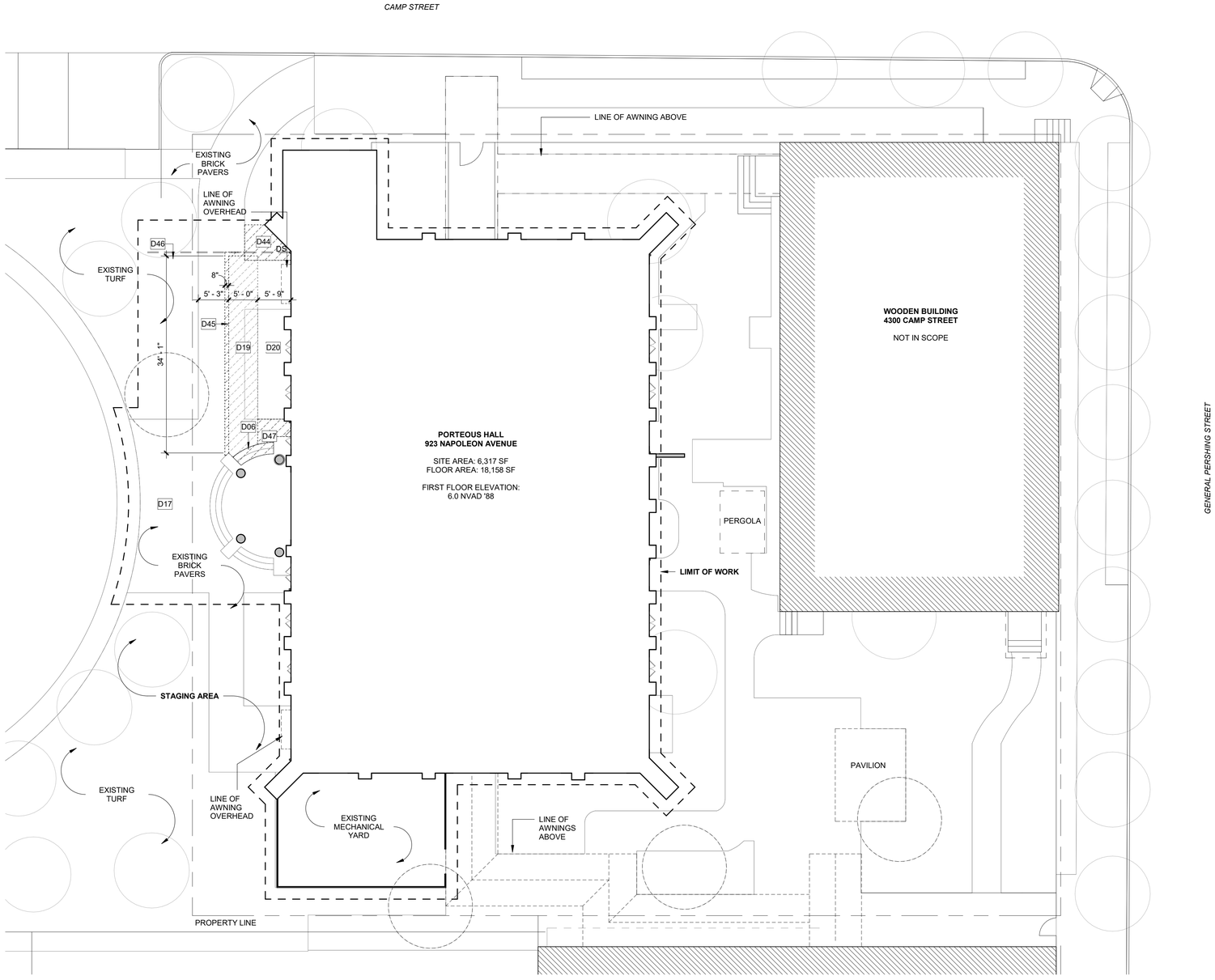


CAST-IN-PLACE CONCRETE STEM WALL — SEE 5/ A011

CAST IN PLACE CONCRETE SLAB W/ SLATE TILE FINISH

CAST-IN-PLACE CONCRETE STEM WALL W/ SLATE TILE FINISH — SEE 6/ A011

2 A001 DEMO AND STAIR INFILL SCOPE
1" = 1'-0"



1 A001 SITE PLAN - DEMOLITION
1" = 10'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED
- NOT IN SCOPE, CAMPUS BUILDING

GENERAL NOTES PERTAINING TO DEMOLITION

1. GENERAL CONTRACTOR IS TO PAY FOR DUMPSTER PERMITS AS NECESSARY. ALL DEMOLITION DEBRIS SHALL BE TAKEN TO A LICENSED LANDFILL WITH PROOF PROVIDED TO THE OWNER. TRASH RECEPTACLES SHALL NOT BLOCK ENTRANCES OR PUBLIC RIGHT-OF-WAY.
2. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR PARKING AND STAGING ARRANGEMENTS. IF PUBLIC RIGHT-OF-WAY IS TO BE CLOSED FOR ANY REASON, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY STREET CLOSURE PERMITS.

CLARIFICATION OF REFERENCE DESIGNATIONS

D06	REMOVE SECTION OF EXISTING MASONRY STEPS. PREPARE FOR NEW RAMP INSTALLATION IN NEW WORK.
D17	BRICK PAVERS AND WALKWAYS TO REMAIN.
D19	REMOVE PORTION OF EXISTING WALKWAY. STORE AND PROTECT BRICK PAVERS FOR RE-INSTALLATION AS PART OF NEW WORK. PREPARE GRADING FOR NEW SLOPED WALKWAY GRADE BEAM FOUNDATION.
D20	REMOVE EXISTING PLANTING BED AND PLANTS. PREPARE FOR NEW PLANTS IN NEW WORK.
D44	REMOVE EXISTING PLANTING BED AND PLANTS. PREPARE FOR NEW BRICK PAVING TO MATCH EXISTING.
D45	SAWCUT EXISTING WALKWAY BRICK PAVERS AND PREPARE FOR NEW BORDER BRICK PAVERS.
D46	EXCAVATE SOIL TO RECEIVE NEW CATCH BASIN.
D47	REMOVE PORTION OF EXISTING BRICK PAVERS AND PREPARE FOR PLANTING BED AS PART OF NEW WORK.

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PORTEOUS BUILDING

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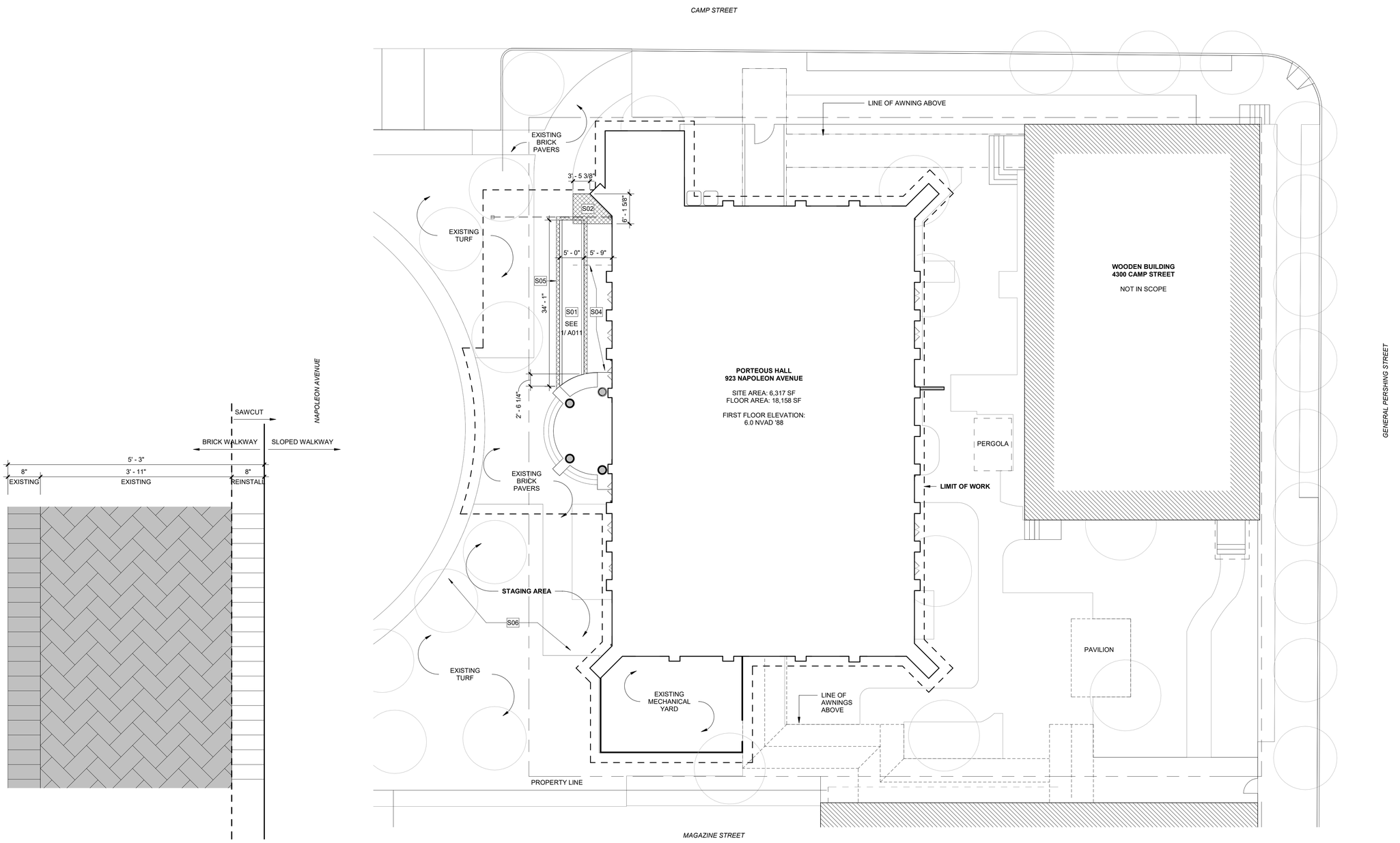
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SITE PLAN - DEMOLITION

A001

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2 BRICK WALKWAY PATTERN
A002 1" = 1'-0"

1 SITE PLAN
A002 1" = 10'-0"

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED
- NOT IN SCOPE, CAMPUS BUILDING

GENERAL NOTES PERTAINING TO NEW WORK

1. PROVIDE POSITIVE DRAINAGE AWAY FROM WALL FOUNDATIONS (FINAL GRADE SLOPES AWAY AT 5% MIN).

CLARIFICATION OF REFERENCE DESIGNATIONS

S01	CONCRETE SLOPED WALKWAY AND CANE DETECTION CURB.
S02	BRICK PAVING TO MATCH EXISTING.
S04	PLANTING BED.
S05	REINSTALL BORDER BRICK PAVERS. SEE 2/A002 FOR BRICK PATTERN.
S06	CONTRACTOR MUST RESTORE TO CURRENT CONDITION ANY AREAS IMPACTED BY STAGING AREA.

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PORTEOUS BUILDING

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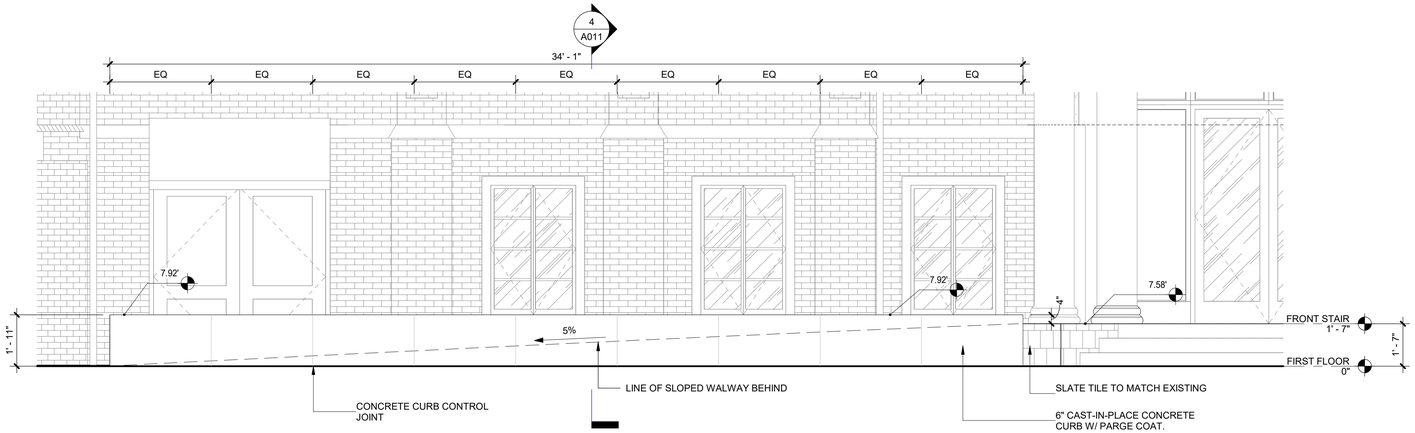
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SITE PLAN

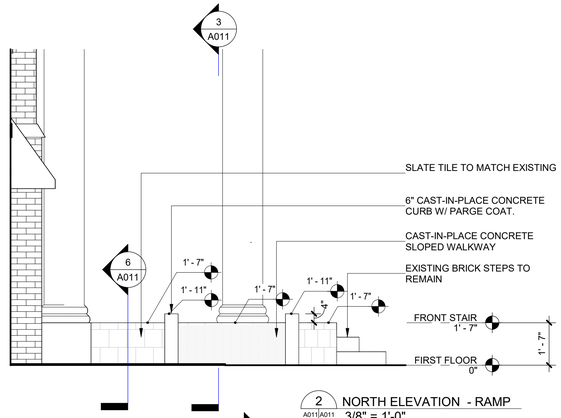
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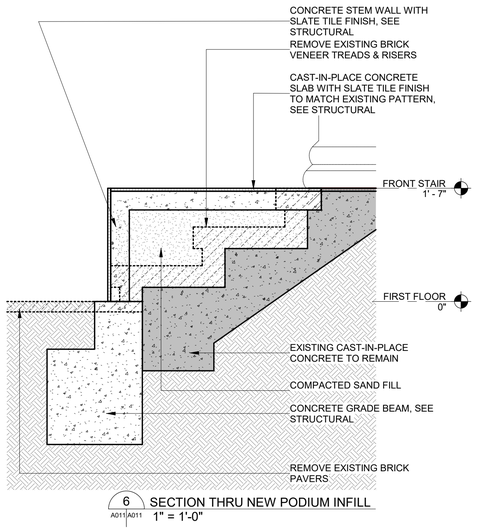
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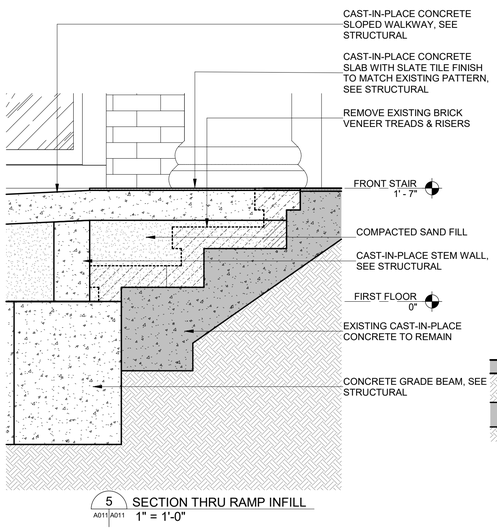
7 A011|A011 WEST ELEVATION - RAMP
3/8" = 1'-0"



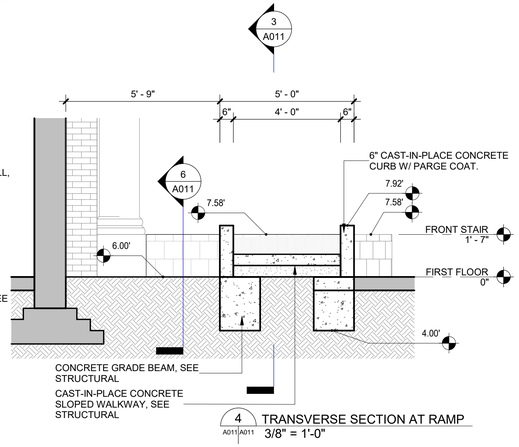
2 A011|A011 NORTH ELEVATION - RAMP
3/8" = 1'-0"



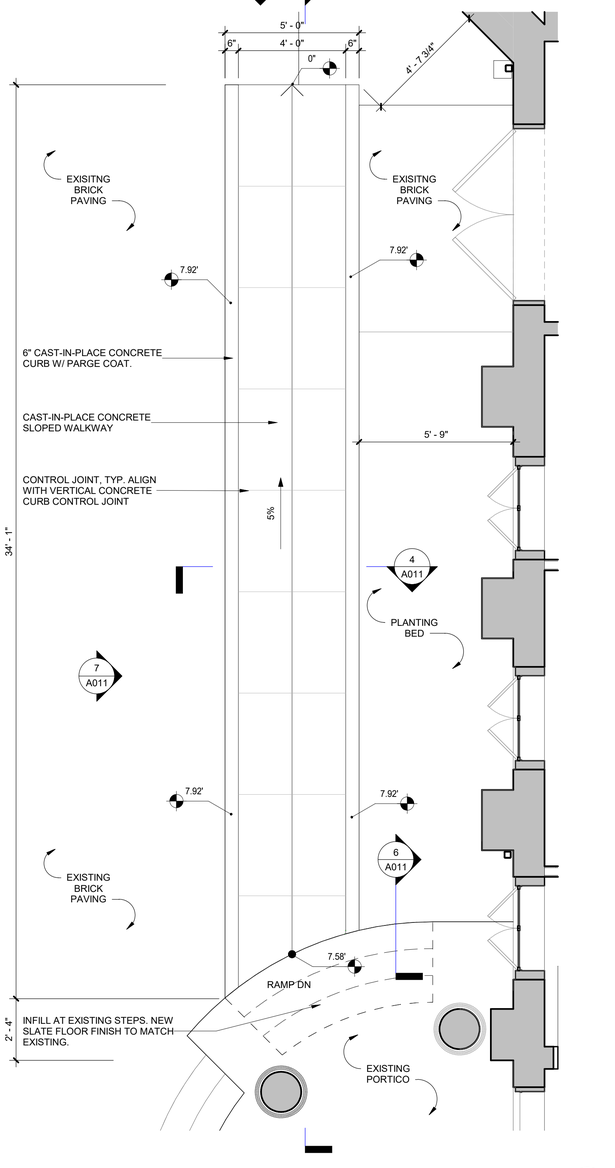
6 A011|A011 SECTION THRU NEW PODIUM INFILL
1" = 1'-0"



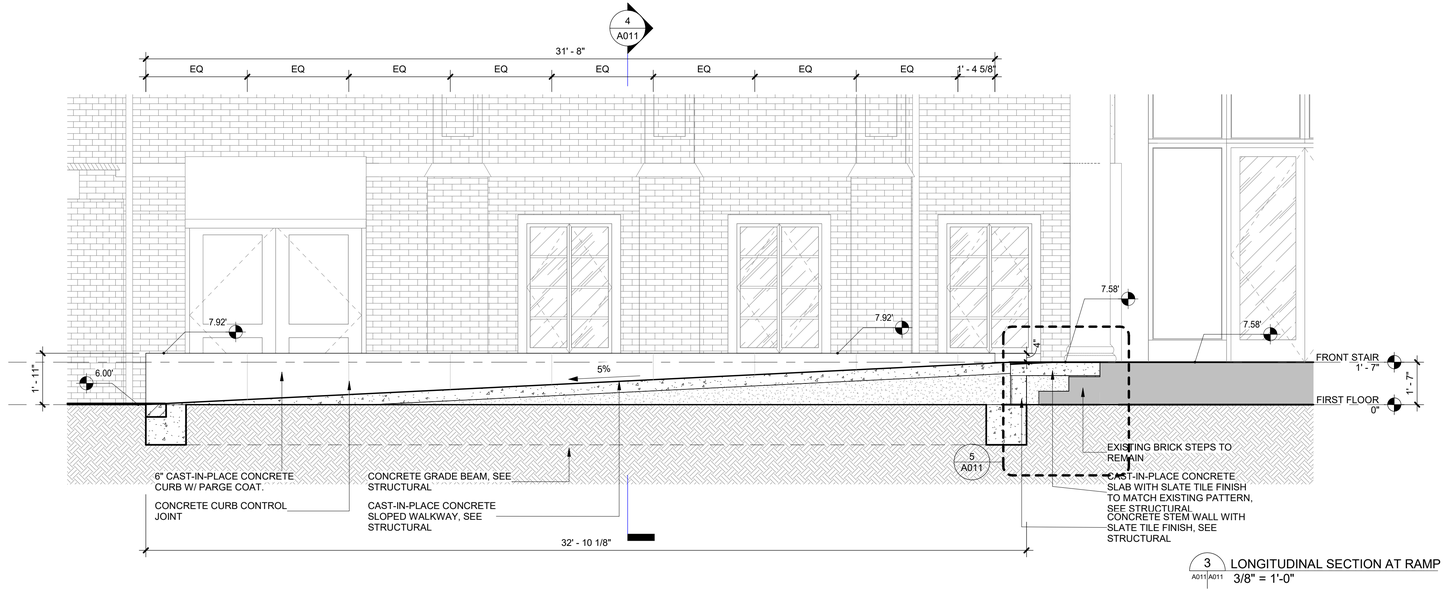
5 A011|A011 SECTION THRU RAMP INFILL
1" = 1'-0"



4 A011|A011 TRANSVERSE SECTION AT RAMP
3/8" = 1'-0"



1 A011 ENLARGED PLAN - RAMP
3/8" = 1'-0"



3 A011|A011 LONGITUDINAL SECTION AT RAMP
3/8" = 1'-0"

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STUDIOWEST

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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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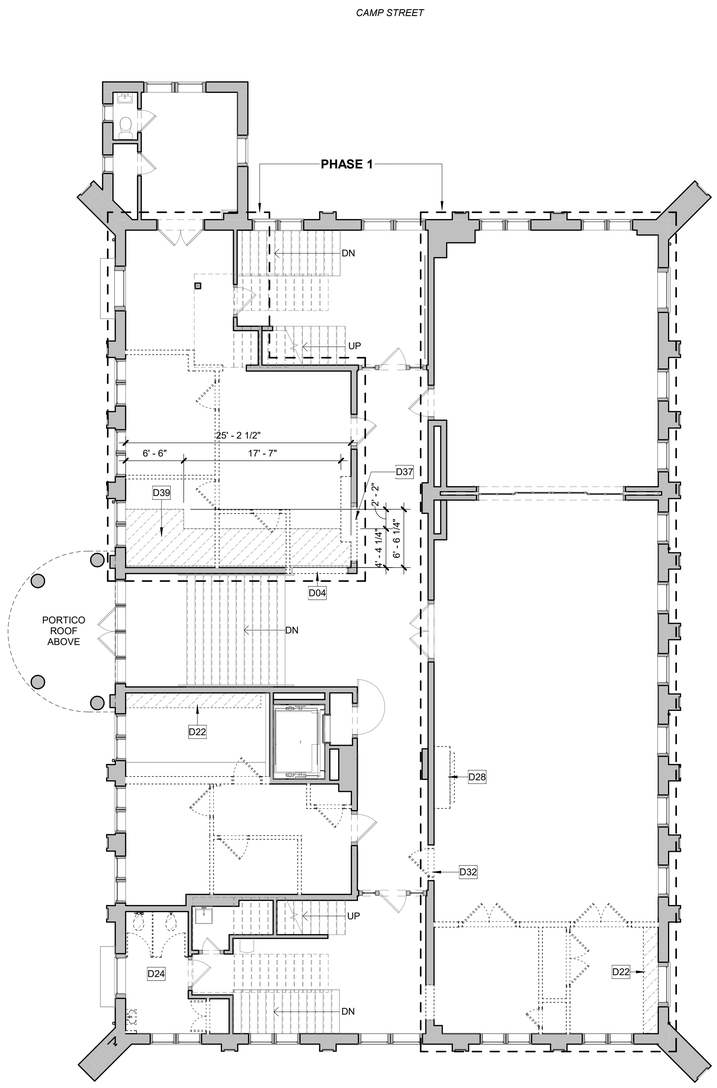
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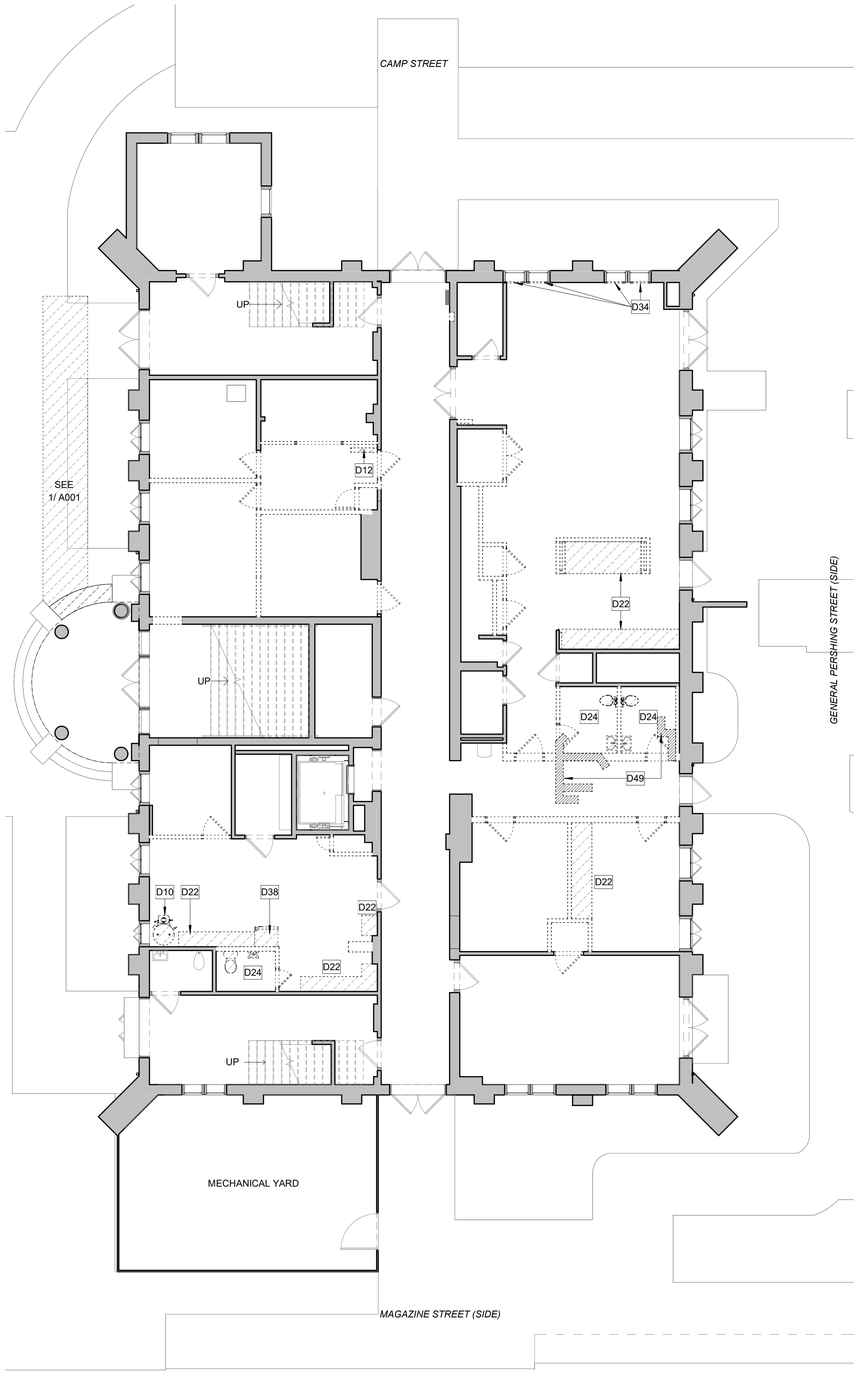
SITE PLAN & ELEVATIONS - RAMP

A011

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2 SECOND FLOOR PLAN - DEMOLITION
A101 1/8" = 1'-0"



1 FIRST FLOOR PLAN - DEMOLITION
A101 1/8" = 1'-0"

STUDIOWEST

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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTAINING TO DEMOLITION

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
2. AFTER REMOVAL OF FLOORING MECHANICALLY SCRAPE FLOOR TO REMOVE ALL ADHESIVE PRIOR TO INSTALLATION OF NEW FINISHES.
3. WHERE NEW SYSTEMS OR DEVICES ARE INSTALLED IN EXISTING PARTITIONS, CUT WALL AND PATCH WITH NEW GYPSUM BOARD. FLOAT AND PREPARE FOR NEW FINISH AS INDICATED IN NEW CONSTRUCTION PLANS.
4. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT, AND WIRE IN THE PROJECT AREA SHALL BE REMOVED.
5. PATCH, REPAIR OR REPLACE ANY EXISTING MATERIALS, FIXTURES OR SURFACES SCHEDULED TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. REPAIRS OR REPLACEMENTS MUST MATCH THE EXISTING MATERIAL IN TEXTURE, PROFILE, DIMENSION AND WHERE APPROPRIATE, SPECIES.

CLARIFICATION OF REFERENCE DESIGNATIONS

D04	REMOVE PORTION OF EXISTING PARTITION. PREPARE FOR NEW WINDOWS AS PART OF NEW WORK.
D10	REMOVE EXISTING HOT WATER HEATER. SEE PLUMBING.
D12	REMOVE EXISTING I/T CABINETS.
D22	REMOVE EXISTING MILLWORK.
D24	REMOVE EXISTING PLUMBING FIXTURES. CAP EXISTING PLUMBING LINES IN WALL OR AT FLOOR. SEE PLUMBING.
D28	REMOVE EXISTING FAUX, NON-HISTORIC FIREPLACE.
D32	REMOVE AND STORE EXISTING DOOR. FLIP DOOR SWING AS PART OF NEW WORK.
D34	REMOVE EXISTING INTERIOR SHUTTERS.
D37	REMOVE PORTION OF EXISTING PARTITION. PREPARE FOR NEW DOOR AS PART OF NEW WORK.
D38	REMOVE EXISTING REFRIGERATOR.
D39	CAREFULLY REMOVE AND RETAIN PORTION OF EXISTING HISTORIC HARDWOOD FLOORING. PREPARE FOR NEW FRAMING AS PART OF NEW WORK.
D49	TRENCHING FOR NEW PLUMBING LINES.

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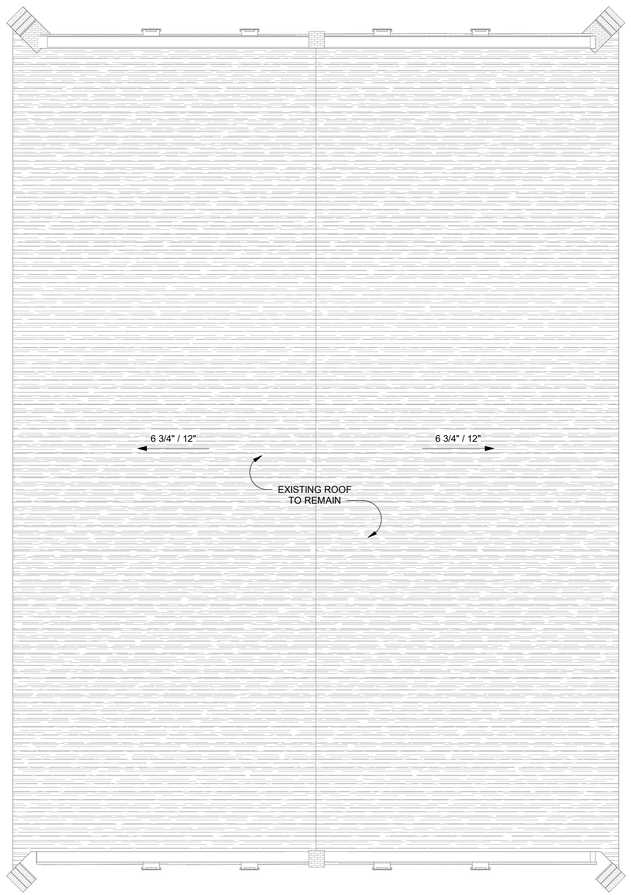
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FIRST AND SECOND FLOOR DEMOLITION PLANS

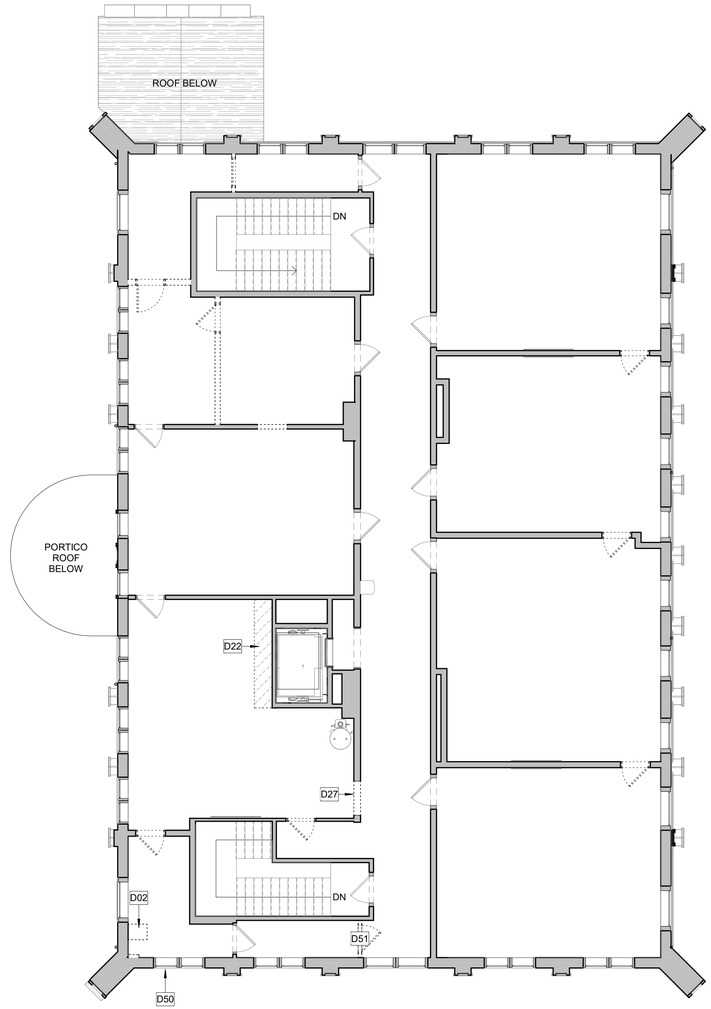
A101

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2 ROOF PLAN - DEMOLITION
A102 1/8" = 1'-0"



1 THIRD FLOOR PLAN - DEMOLITION
A102 1/8" = 1'-0"

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2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTAINING TO DEMOLITION

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
2. AFTER REMOVAL OF FLOORING MECHANICALLY SCRAPE FLOOR TO REMOVE ALL ADHESIVE PRIOR TO INSTALLATION OF NEW FINISHES.
3. WHERE NEW SYSTEMS OR DEVICES ARE INSTALLED IN EXISTING PARTITIONS, CUT WALL AND PATCH WITH NEW GYPSUM BOARD. FLOAT AND PREPARE FOR NEW FINISH AS INDICATED IN NEW CONSTRUCTION PLANS.
4. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT, AND WIRE IN THE PROJECT AREA SHALL BE REMOVED.
5. PATCH, REPAIR OR REPLACE ANY EXISTING MATERIALS, FIXTURES OR SURFACES SCHEDULED TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. REPAIRS OR REPLACEMENTS MUST MATCH THE EXISTING MATERIAL IN TEXTURE, PROFILE, DIMENSION AND WHERE APPROPRIATE, SPECIES.

CLARIFICATION OF REFERENCE DESIGNATIONS

D02	REMOVE EXISTING MECHANICAL SHAFT PARTITIONS.
D22	REMOVE EXISTING MILLWORK.
D27	REMOVE PORTION OF EXISTING WALL. PREPARE TO INSTALL NEW DOOR.
D50	REMOVE EXISTING WINDOW UNIT. DROP SASH AND RE-SEAL WINDOW IN NEW WORK.
D51	REMOVE EXISTING DOOR AND PARTITION TO 9'-0" A.F.F. PREPARE FOR NEW HEADER IN NEW WORK

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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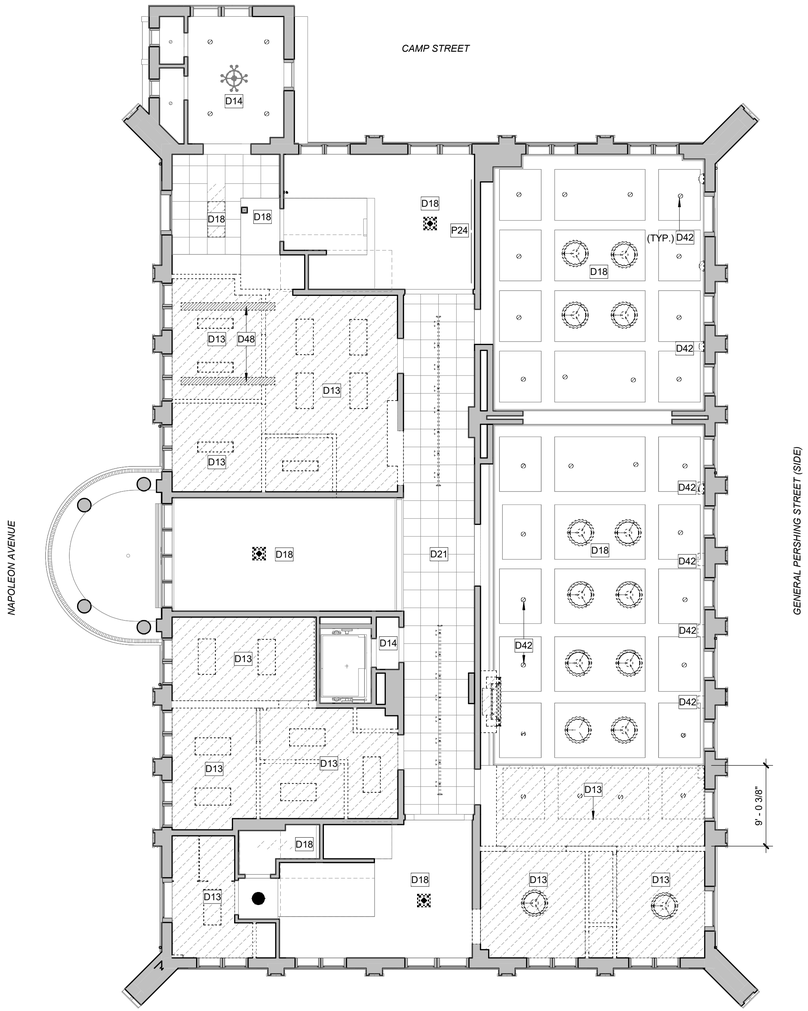
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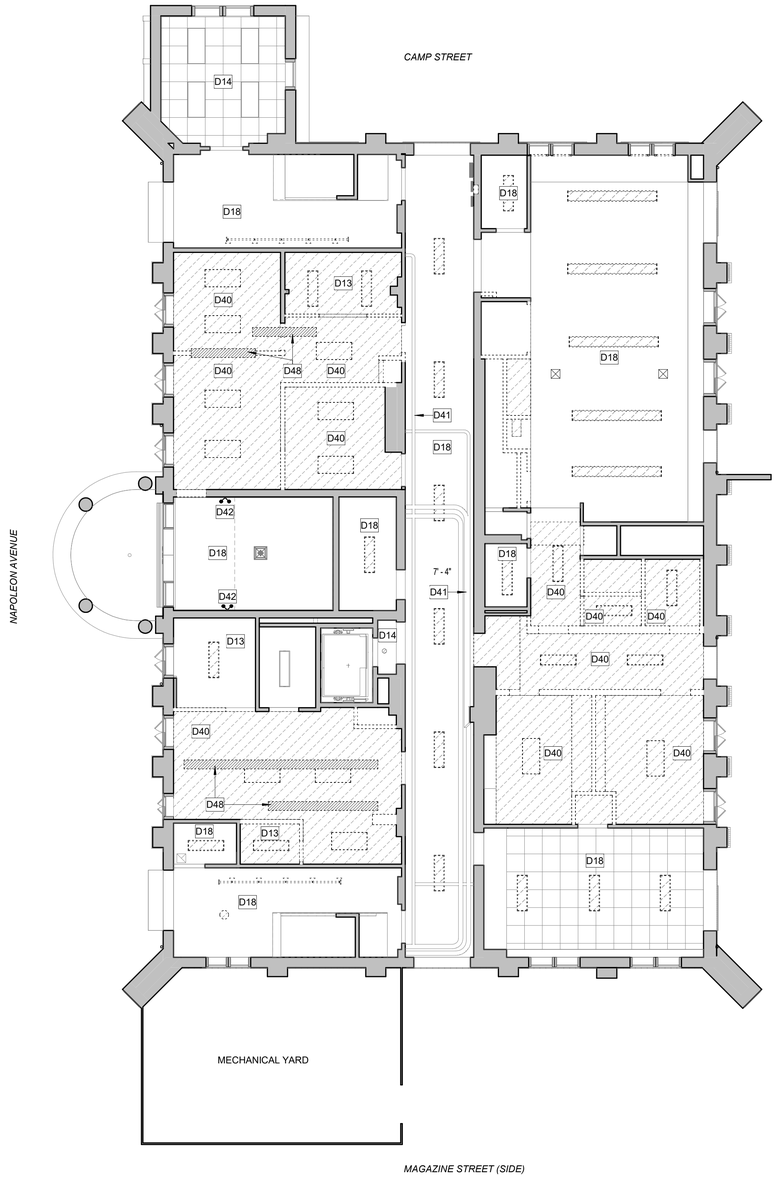
THIRD FLOOR & ROOF DEMOLITION PLAN

A102

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2 SECOND FLOOR REFLECTED CEILING PLAN - DEMOLITION
A131 1/8" = 1'-0"



1 FIRST FLOOR REFLECTED CEILING PLAN - DEMOLITION
A131 1/8" = 1'-0"

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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTAINING TO DEMOLITION

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
2. AFTER REMOVAL OF FLOORING MECHANICALLY SCRAPE FLOOR TO REMOVE ALL ADHESIVE PRIOR TO INSTALLATION OF NEW FINISHES.
3. WHERE NEW SYSTEMS OR DEVICES ARE INSTALLED IN EXISTING PARTITIONS, CUT WALL AND PATCH WITH NEW GYPSUM BOARD. FLOAT AND PREPARE FOR NEW FINISH AS INDICATED IN NEW CONSTRUCTION PLANS.
4. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT, AND WIRE IN THE PROJECT AREA SHALL BE REMOVED.
5. PATCH, REPAIR OR REPLACE ANY EXISTING MATERIALS, FIXTURES OR SURFACES SCHEDULED TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. REPAIRS OR REPLACEMENTS MUST MATCH THE EXISTING MATERIAL IN TEXTURE, PROFILE, DIMENSION AND WHERE APPROPRIATE, SPECIES.

CLARIFICATION OF REFERENCE DESIGNATIONS

D13	REMOVE EXISTING CEILING INCLUDING LIGHTING FIXTURES, AIR DIFFUSERS, DEVICES AND AIR RETURNS.
D14	LIGHTING FIXTURE TO REMAIN. PROTECT IN CONSTRUCTION.
D18	EXISTING CEILING TO REMAIN. REMOVE EXISTING LIGHTING FIXTURES. PREPARE LIGHTING LOCATION IN NEW WORK.
D21	REMOVE EXISTING LIGHTING FIXTURES. EXISTING CEILING GRIDS TO REMAIN. REMOVE EXISTING CEILING TILES. REMOVE AND REPLACE DAMAGED AND DISCOLORED TILES IN NEW WORK.
D40	REMOVE EXISTING DROP CEILING INCLUDING LIGHTING FIXTURES, AIR DIFFUSERS, DEVICES AND AIR RETURNS. PROTECT PLASTER FIRE LID ABOVE.
D41	EXISTING PIPING TO REMAIN. PREPARE FOR PAINT AS PART OF NEW WORK.
D42	REMOVE LIGHT FIXTURES. LOCATIONS TO BE REUSED IN NEW WORK.
D48	MECHANICAL DUCTWORK TO BE LOCATED BETWEEN JOISTS IN FLOOR/CEILING ASSEMBLY. REMOVE EXISTING PLASTER CEILING IN AREA IDENTIFIED BETWEEN JOISTS. PREPARE FOR NEW GYPSUM BOARD RATED ASSEMBLY IN NEW WORK PER DETAIL 2/A850.
P24	EXISTING TVS TO REMAIN

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FIRST AND SECOND FLOOR REFLECTED CEILING PLANS - DEMOLITION

A131

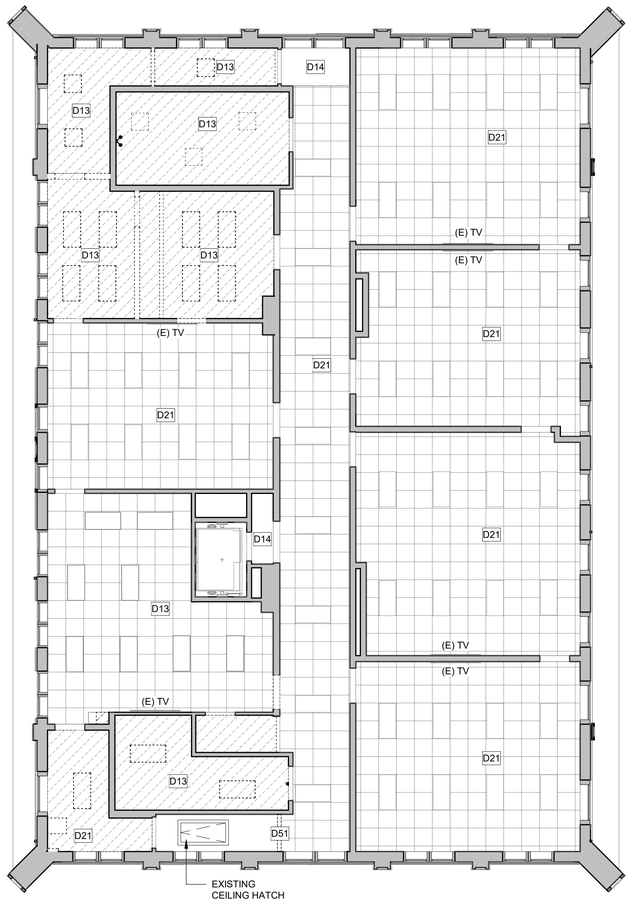
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CAMP STREET

NAPOLEON AVENUE

GENERAL PERSHING STREET (SIDE)



MAGAZINE STREET (SIDE)

1 A132 THIRD FLOOR REFLECTED CEILING PLAN - DEMOLITION
1/8" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTAINING TO DEMOLITION

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
2. AFTER REMOVAL OF FLOORING MECHANICALLY SCRAPE FLOOR TO REMOVE ALL ADHESIVE PRIOR TO INSTALLATION OF NEW FINISHES.
3. WHERE NEW SYSTEMS OR DEVICES ARE INSTALLED IN EXISTING PARTITIONS, CUT WALL AND PATCH WITH NEW GYPSUM BOARD. FLOAT AND PREPARE FOR NEW FINISH AS INDICATED IN NEW CONSTRUCTION PLANS.
4. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT, AND WIRE IN THE PROJECT AREA SHALL BE REMOVED.
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CLARIFICATION OF REFERENCE DESIGNATIONS

D13	REMOVE EXISTING CEILING INCLUDING LIGHTING FIXTURES, AIR DIFFUSERS, DEVICES AND AIR RETURNS.
D14	LIGHTING FIXTURE TO REMAIN. PROTECT IN CONSTRUCTION.
D21	REMOVE EXISTING LIGHTING FIXTURES. EXISTING CEILING GRIDS TO REMAIN. REMOVE EXISTING CEILING TILES. REMOVE AND REPLACE DAMAGED AND DISCOLORED TILES IN NEW WORK.
D51	REMOVE EXISTING DOOR AND PARTITION TO 9'-0" A.F.F. PREPARE FOR NEW HEADER IN NEW WORK

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 24025

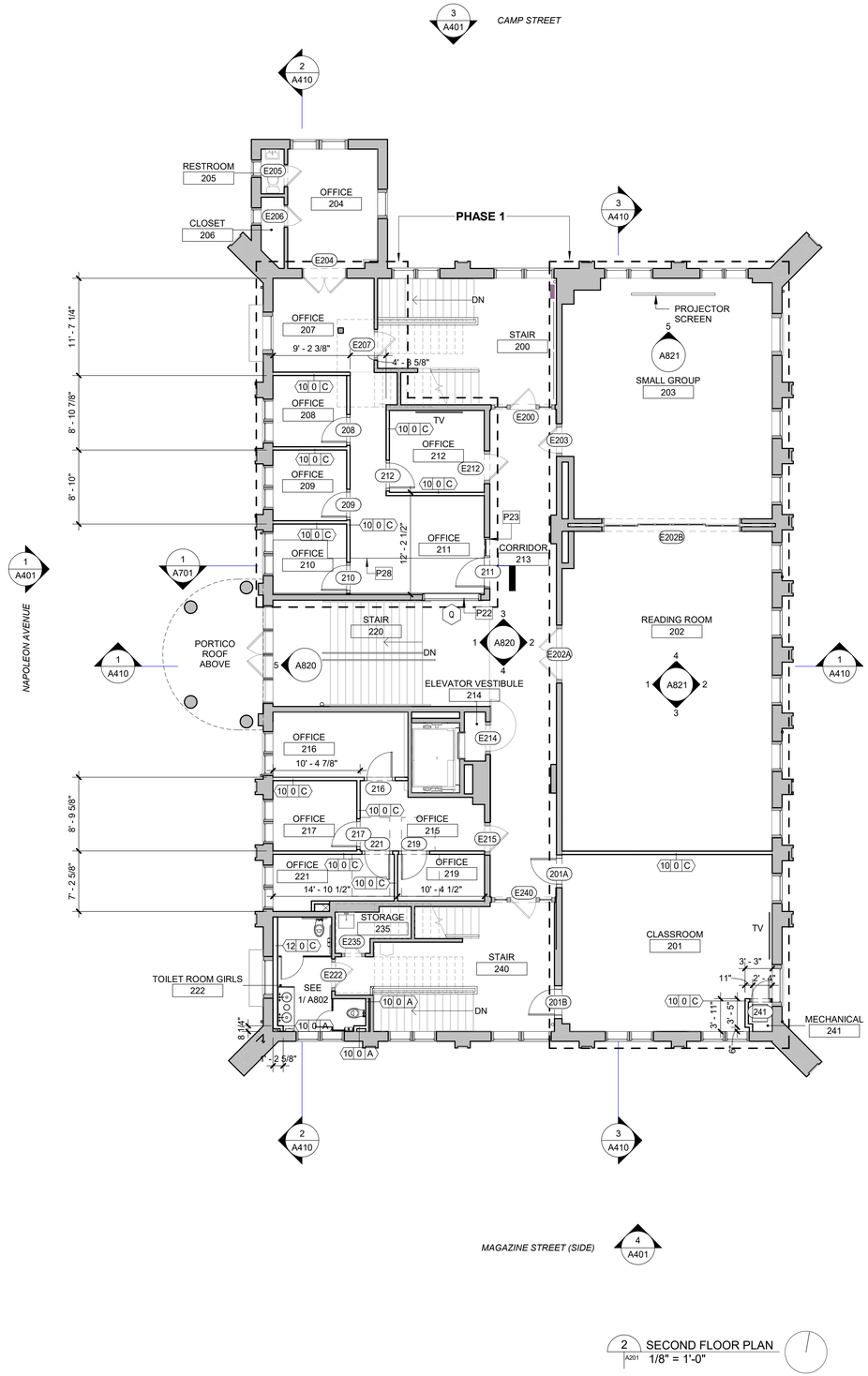
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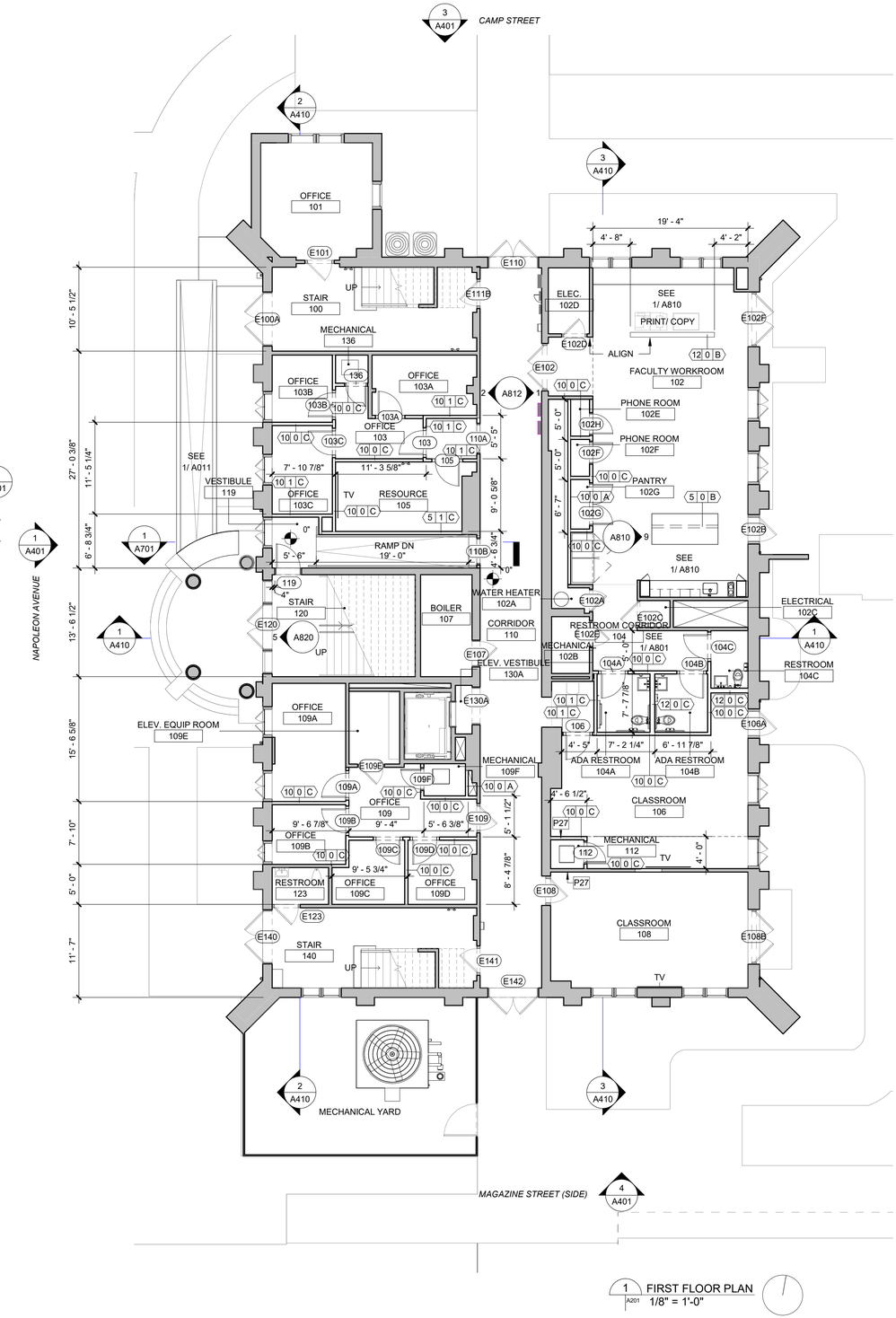
THIRD FLOOR & ROOF REFLECTED CEILING PLAN - DEMOLITION

A132

8/25/2025 10:04:34 AM



2 SECOND FLOOR PLAN
1/8" = 1'-0"



1 FIRST FLOOR PLAN
1/8" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTANING TO NEW WORK

1. DO NOT SCALE FROM DRAWINGS. USE DIMENSIONS AS SHOWN IN THE DOCUMENTS. IF A DIMENSION NEEDS TO BE VERIFIED, COORDINATE WITH ARCHITECT.

2. DIMENSIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM FACE OF FINISH WALL SURFACE, EXCLUDING THINSET TILE, TO THE FACE OF DOORS AND WINDOW OPENINGS, U.N.O. (UNLESS NOTED OTHERWISE).

3. ALL DIMENSIONS SHOWN AT EXISTING CONDITIONS ARE PLUS PR MINUS AND SHOULD BE VERIFIED, IF NECESSARY, ON THE PROJECT SITE.

4. THE CONTRACTOR SHALL BRING ALL DISCREPANCIES THAT MAY OCCUR IN THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CORRECTIVE WORK REQUIRED DUE TO PROCEEDING WITHOUT CLARIFICATION FROM THE ARCHITECT.

5. FOR ROOM FINISH SCHEDULE, REFER TO SHEET A600.

6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

8. WHERE INFILLING PORTIONS OF EXISTING PARTITIONS, CONFIRM EXISTING WALL DEPTH PRIOR TO INSTALLATION.

CLARIFICATION OF REFERENCE DESIGNATIONS

- P22 FOR SECTION DETAIL CUTS OF FIRE-RATED WINDOW Q, SEE INTERIOR ELEVATION DRAWING 3/A820. WHICH REFER TO DOOR & FRAME DETAILS SHEET A611
- P23 FOR SECTION DETAIL CUTS OF FIRE-RATED DOOR 211, SEE INTERIOR ELEVATION DRAWING 1/A820. WHICH REFER TO DOOR & FRAME DETAILS SHEET A611
- P27 TRANSFER GRILLE. SEE MECHANICAL.
- P28 AREA OF NEW FLOOR FRAMING. SEE STRUCTURAL.

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 24025

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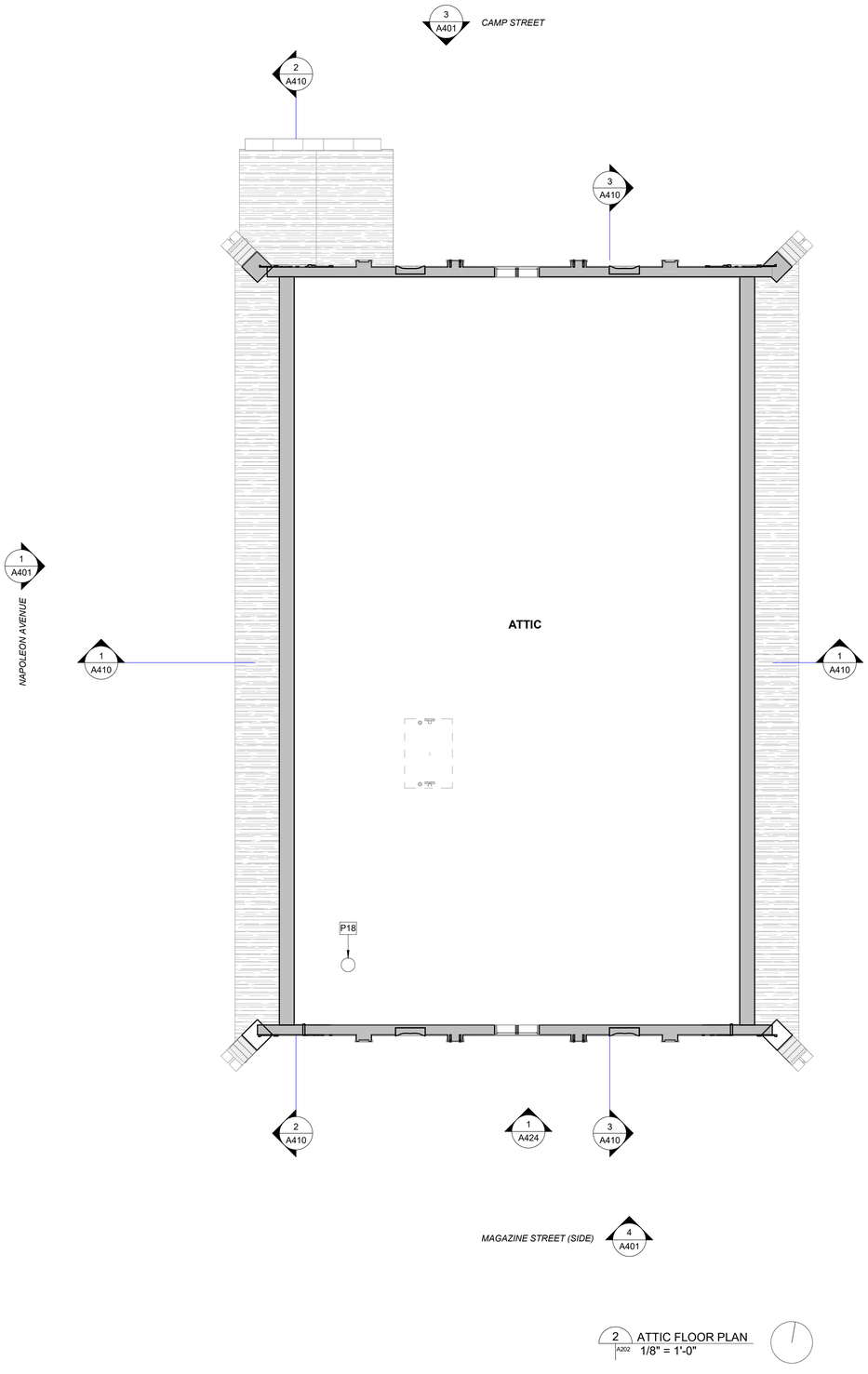
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CONSTRUCTION DOCUMENTS
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FIRST AND SECOND FLOOR PLANS

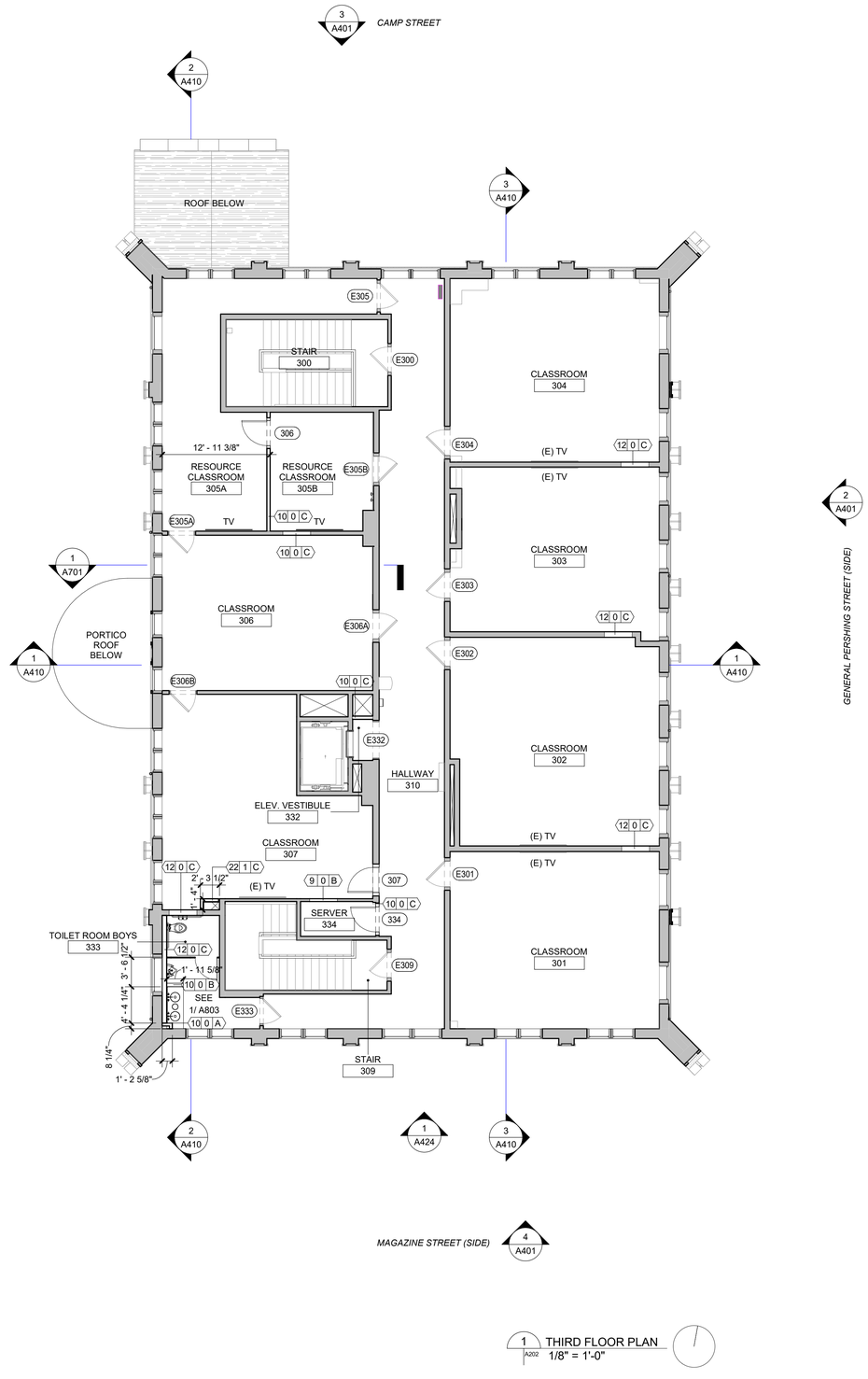
A201

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2 ATTIC FLOOR PLAN
A202 1/8" = 1'-0"



1 THIRD FLOOR PLAN
A202 1/8" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
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5. FOR ROOM FINISH SCHEDULE, REFER TO SHEET A600.

6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

8. WHERE INFILLING PORTIONS OF EXISTING PARTITIONS, CONFIRM EXISTING WALL DEPTH PRIOR TO INSTALLATION.

CLARIFICATION OF REFERENCE DESIGNATIONS

P18 PROVIDE NEW WATER HEATER, SEE PLUMBING

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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New Orleans, LA 70115

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THIRD FLOOR PLAN AND ATTIC PLAN

A202

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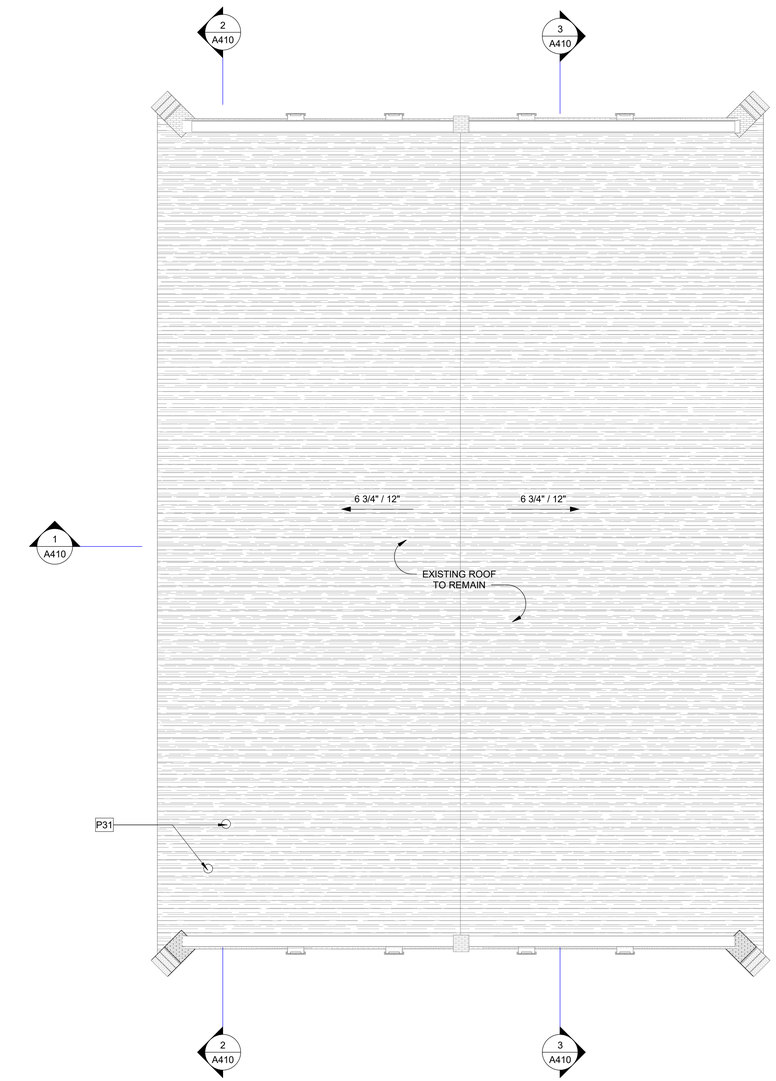
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CAMP STREET

NAPOLEON AVENUE

GENERAL PERSHING STREET (SIDE)



MAGAZINE STREET (SIDE)

1 A203 ROOF PLAN
1/8" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
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6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

8. WHERE INFILLING PORTIONS OF EXISTING PARTITIONS, CONFIRM EXISTING WALL DEPTH PRIOR TO INSTALLATION.

CLARIFICATION OF REFERENCE DESIGNATIONS

P31 VENT CAP, SEE MECHANICAL.

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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ROOF PLAN

A203

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ROLLER SHADES SCHEDULE

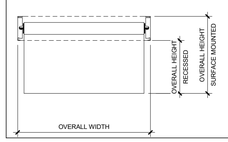
ROLLER SHADE NUMBER (1585A)

NOTES:
1. **SEE BELOW FOR CLARIFICATION OF MATERIALS AND FINISHES.**
2. **UNLESS OTHERWISE NOTED, ALL SHADES SHALL BE SINGLE ROLLS.**
3. **SEE SPECIFICATIONS FOR FABRIC COLOR SELECTION**
4. **CONFIRM EXTENT OF EXISTING ROLLER SHADES BEFORE ORDERING. ROLLER SHADES ARE INTENDED TO REPLACE EXISTING MINI BLINDS.**

MARK	SHADE TYPE	OPENING LENGTH	OPENING HEIGHT	MOUNTING STYLE	SHADE FABRIC	MANUAL/ELECTRIC
RS-101A	A	2' - 8"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-101B	A	2' - 8"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-102A	A	2' - 2"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-102B	A	2' - 2"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-102C	A	2' - 4"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-102D	A	2' - 4"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-102E	A	3' - 6"	5' - 7"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-102F	A	3' - 6"	5' - 7"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-103B	A	3' - 2"	5' - 6"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-103C	A	3' - 2"	5' - 6"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-106A	A	3' - 4"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-106B	A	3' - 4"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-108A	A	2' - 8"	6' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-108B	A	2' - 8"	6' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-108C	A	2' - 8"	6' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-108D	A	2' - 8"	6' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-109A.1	A	3' - 2"	5' - 6"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-109A.2	A	3' - 2"	5' - 6"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-109B	A	2' - 4"	5' - 6"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-119	A	3' - 2"	5' - 6"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-201A	A	2' - 10"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-201B	A	3' - 7"	9' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-201C	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-201D	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-201E	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-201F	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-202A	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-202B	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-202C	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-202D	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-202E	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203A	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203B	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203C	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203D	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203E	A	4' - 1"	9' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203F	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-203G	A	3' - 3"	9' - 8"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-204A	A	2' - 9"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-204B	A	2' - 9"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-204C	A	2' - 9"	5' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-207	A	4' - 1"	9' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-208A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-208B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-209A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-209B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-210A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-210B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-216A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-216B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-217A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-217B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-221A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-221B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-301A	A	3' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-301B	A	3' - 10"	9' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-301C	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-301D	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-301E	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-301F	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-302A	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-302B	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-302C	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-303A	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-303B	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-303C	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-304A	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-304B	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-304C	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-304D	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-304E	A	4' - 1"	9' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-304F	A	2' - 10"	8' - 4"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.1	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.2	A	2' - 4"	8' - 9"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.3	A	4' - 0"	9' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.4	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.5	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.6	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-305A.7	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-306A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-306B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-306C	A	2' - 6"	10' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-306D	A	2' - 6"	10' - 5"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-307A	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-307B	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-307C	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-307D	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-307E	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL
RS-307F	A	2' - 2"	8' - 10"	JAMB MOUNTED	SHEERWEAVE BASIC 3% OPEN P04 WHITE/BONE	MANUAL

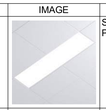
ROLLER SHADES LEGEND

TYPICAL ROLLER SHADES DIMENSIONS (CEILING MOUNTED)



A	B	C	D
MANUALLY OPERATED SUNSCREEN ROLLER SHADES.	MANUALLY OPERATED PRIVACY ROLLER SHADES. **NOT USED IN THIS PROJECT.**	ELECTRICALLY OPERATED SUNSCREEN ROLLER SHADES. **NOT USED IN THIS PROJECT.**	ELECTRICALLY OPERATED PRIVACY SHADES AND SUNSCREEN DOUBLE ROLLER **NOT USED IN THIS PROJECT.**

LIGHTING FIXTURE SCHEDULE

MARK	IMAGE	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	CRI / CCT	LAMP	FINISH	COMMENTS
L1		SURFACE MOUNTED FLAT PANEL, 1' X 4'	ORACLE	14-FPL-BL-LED-3000L-DIM10-MVOLT-35K-85	CEILING	3000K	LED	WHITE	
L2		LAY IN FLAT PANEL 2' X 4'	ORACLE	24-FPL-BL-LED-4000L-DIM10-MVOLT-35K-85	CEILING	3500K	LED	WHITE	
L3		LAY IN FLAT PANEL 2' X 2'	ORACLE	22-FPL-BL-LED-4000L-DIM10-MVOLT-35K-85	CEILING	3500K	LED	WHITE	
L4		SUSPENDED LINEAR DIRECT / INDIRECT 4. POWERED'	ORACLE	OLS-DI-2-S-4-D1000L-HP-U1000L-HP-DIM10-MVOLT-35K-85-WH	2' PENDANT HEIGHT	3500K	LED	WHITE	STANDARD DIMMING
L8A		SUSPENDED LINEAR DIRECT / INDIRECT 8'. POWERED	ORACLE	OLS-DI-LED-2-S-8-D750L-HP-U750L-HP-BW-DIM10-MVOLT-35K-85-WH	2' PENDANT HEIGHT	3500K	LED	WHITE	STANDARD DIMMING, SEPERATE SWITCHING
L8B		SUSPENDED LINEAR DIRECT / INDIRECT 8. NOT POWERED	ORACLE	OLS-DI-LED-2-S-8-D750L-HP-U750L-HP-BW-DIMTR-MVOLT-35K-85-WH	2' PENDANT HEIGHT	3500K	LED	WHITE	STANDARD DIMMING, SEPERATE SWITCHING
L10		SUSPENDED MODULAR DIRECT / INDIRECT WHITE LED FIXTURE	DELRAY	DOS CURVE MODULES	CEILING	3500K	LED	WHITE	CUSTOM CURVILINEAR FIXTURE COMPOSED OF MODULAR UNITS. PRECISE LAYOUT TO BE CONFIMRED WITH ARCHITECT. CONNECTIONS TO J-BOXES TO BE LOCATED AT EXISTING FIXTURES. STANDARD DIMMING, SEPERATE SWITCHING.
L11		RECESSED CAN LIGHT 4"	ORACLE	HH4-LED-800L-DIM10-MVOLT-WD-35K-90-HH4-4501-SHZ-WH	RECESSED CEILING	3000K	LED	WHITE	
L12		TRACK LIGHTING SYSTEM,SURFACE MOUNT	FUSION LIGHTING	TRACK: FG-CM-SM , FIXTURE:FG-T2-3	CEILING	3000K	LED	WHITE	SURFACE MOUNTED GROOVE TRACK SYSTEM - SEE PLANS FOR TRACK LENGTHS. DIM10 - 0-10V
L13		DECORATIVE ROUND FLUSH MOUNT	VISUAL COMFORT	700FMFIN-R-BR-LED830	CEILING	3000K	LED	PLATED BRASS	
L14		SURFACE MOUNTED FLUSH ROUND 11"	ORACLE	RL1192-2000L-DIMTR-120-30K-90-XX	CEILING	3000K	LED	WHITE	
L15		DECORATIVE PENDANT	ALORA MOOD	PD406418-BGGO	ROD LEGNTH 3'	3000K	LED E26 (NOT INCLUDED)	BRUSHED GOLD / GLOSSY OPAL GLASS	
L16		DECORATIVE SCONCE	CEDAR & MOSS	PARKER - MAPLE	6'-9" A.F.F.	3000K	LED	MAPLE	
L17		DECORATIVE WALL SCONCE	ALORA MOOD	WV407306-BGGO	6'-8" TO BOTTOM OF FIXTURE	3000K	-	BRUSHED GOLD / GLOSSY OPAL GLASS	
L18		SURFACE MOUNTED FLUSH ROUND 7"	ELITE LIGHTING	RL792-1000L-DIMTR-120-30K-90-XX	CEILING	3000K	LED	WHITE	
L19		ROUND PUCK LIGHT	ELITE LIGHTING	LED-HU-41-240L-30K-90-XX	CEILING	3000K	LED	WHITE	RECESSED INTO KITCHENETTE SOFFIT
L20		TRACK LIGHTING SYSTEM,SURFACE MOUNT	FUSION LIGHTING	TRACK: FG-CM-SM	CEILING	-	-	WHITE	26' TRACK LIGHT LIGHTING W/ (1) 200W EXTERNAL DRIVER PER TRACK. CAT# FG-200W-48V
L20A		GROOVE SERIES CYLINDER TRACKHEAD	FUSION LIGHTING	FG-T3-A-NFL-30K-90-WH-BK-FG-T-ACC-L1-2-48V	TRACK	3000K	LED	WHITE	
L20B		BEAM ADJUSTABLE CYLINDER TRACK HEAD	FUSION LIGHTING	FG-T4-2-17D-44D-30K-90-WH-BK-48V	TRACK	3000K	LED	WHITE	
L22		VANITY WALL SCONCE 18"	ELITE LIGHTING	OVLS-LED-18-1300L-DIMTR-120-3000K-90-XX	6'-9" A.F.F.	3000K	LED	CHROME	
L23		VANITY WALL SCONCE 48"	ELITE LIGHTING	OVLS-LED-48-3000L-DIMTR-120-3000K-90-XX	6'-9" A.F.F.	3000K	LED	CHROME	
L24		LINEAR FIXTURE	ORACLE	2-OC1-LED-4000L-DIM10-MVOLT-30K-85-XX	CEILING	3000K	LED	-	
L25		LINEAR LED FIXTURE 4'	ORACLE	4-OW1IP-LED-4000L-DIM10-MVOLT-30K-85-WD	CEILING	3000K	LED	-	
X1		EMERGENCY LIGHT	SURE-LITES	SEL25 SERIES	SURFACE	-	LED	-	
X2		EXIT LIGHT	SURE-LITES	EU-S-70-R	VARIES	-	LED	GREEN	

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STUDIOWEST
2340 DAUPHINE STREET
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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

CLARIFICATION OF SYMBOLS REFLECTED CEILING PLAN

1. CONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATION OF ALL FIXTURES/ DEVICES INDICATED WITH THE MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER, ALARM AND SPECIAL DEVICES. NOTIFY ARCHITECT OF DISCREPENCIES/ CONFLICTS.
2. THE LOCATION OF ALL DEVICES TO BE INSTALLED IN FLOORS, ON WALLS AND CEILINGS, ASSOCIATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, SECURITY, AND OTHER SUCH SYSTEMS INLCUDING ACCESS PANELS, NOT SPECIFICALLY INDICATED ON THE DRAWINGS BUT PART OF THE CONSTRUCTION CONTRACT, SHALL BE APPROVED BY THE ARCHITECT. FAILURE TO RECEIVE APPROVAL SHALL BE CAUSE FOR REMOVAL AND RELOCATION AT NO COST TO THE OWNER.
3. ALL SYMBOLS APPEARING IN THIS LISTING MAY NOT NECESSARILY BE SHOWN ON REFLECTED CEILING PLAN OR BE APPLICABLE TO THIS PROJECT.
4. REPLACE DAMAGED OR DISCOLORED CEILING TILES, AS NEEDED. CONTRACTOR TO ASSUME 80 TILES.

- ACOUSTIC CEILING TILE
- GYPSUM BOARD OR EXISTING PLASTER
- SURFACE MOUNT FIXTURE
- LAY IN FLAT PANEL
- RECESSED DOWN LIGHT
- TRACK LIGHT
- FLUSH MOUNT
- WALL SCONCE
- DIRECT/ INDIRECT PENDANT
- SURFACE MOUNT
- WALL SCONCE
- PENDANT
- EXIT SIGN

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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New Orleans, LA 70115

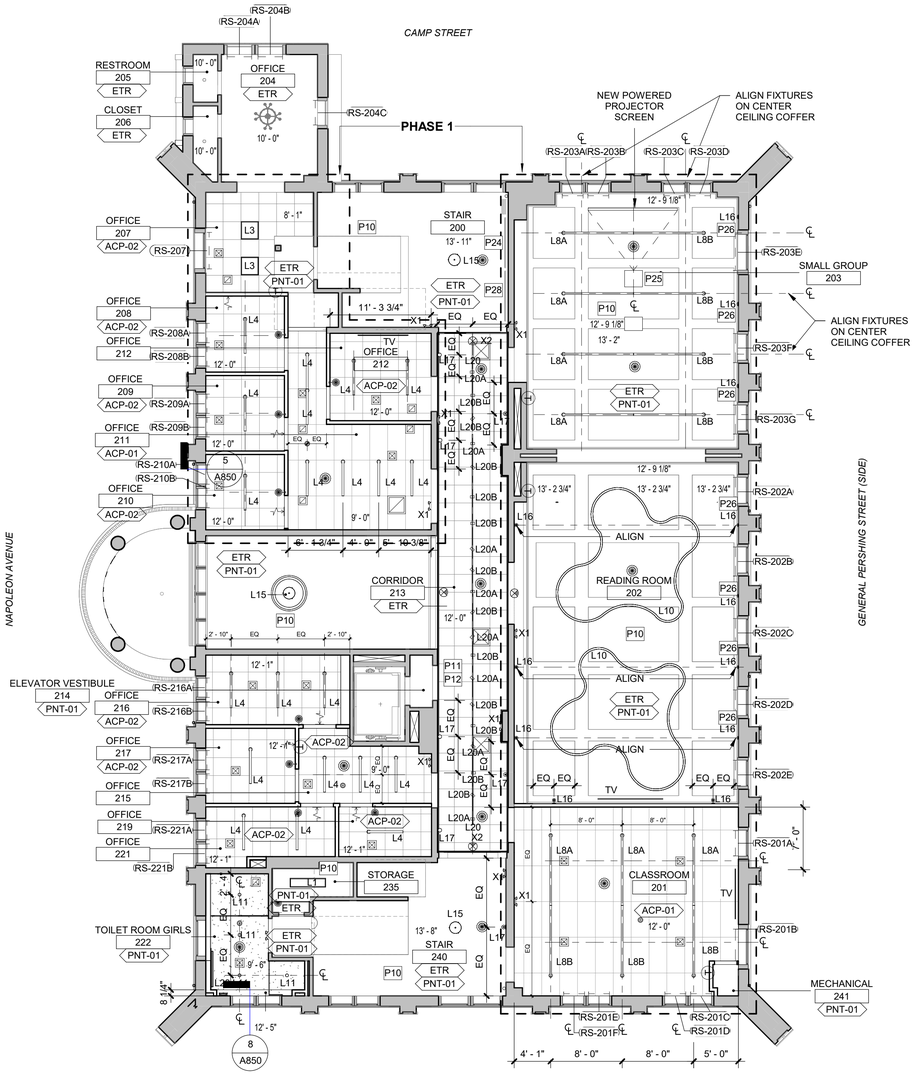
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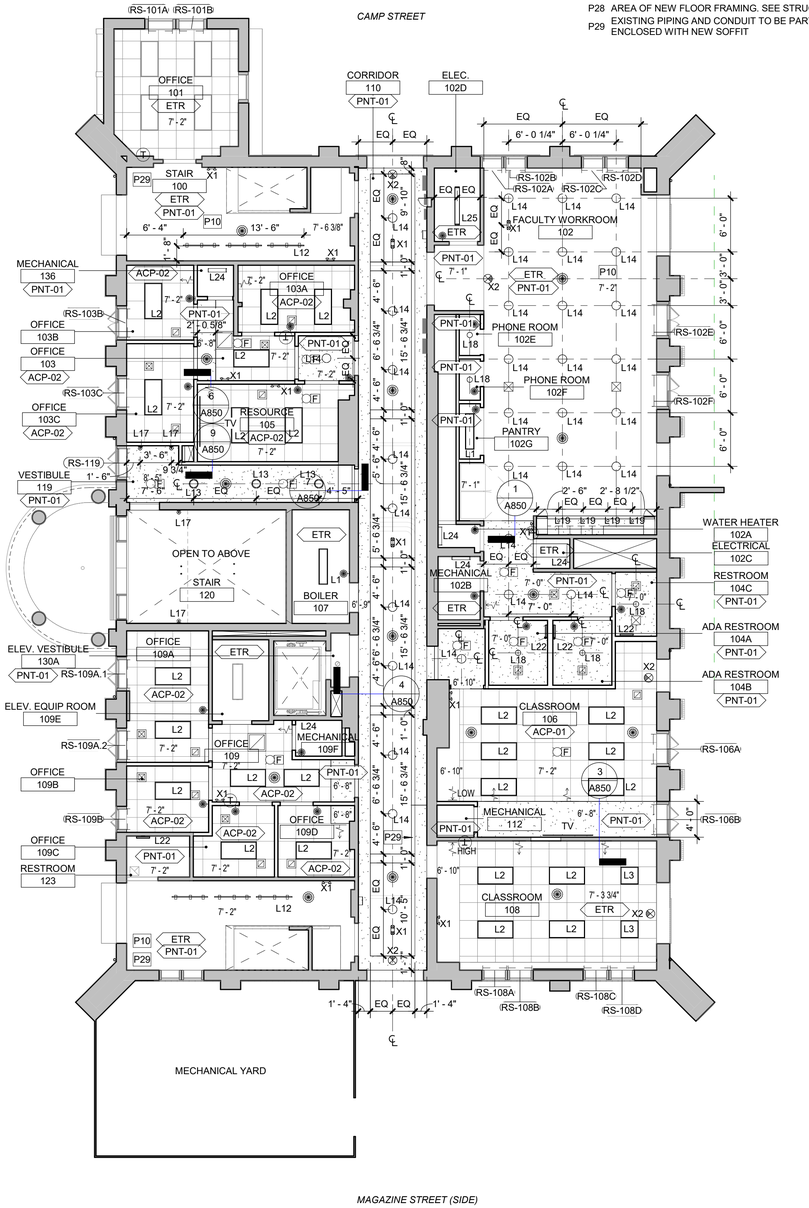
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LIGHTING SCHEDULES

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2 SECOND FLOOR REFLECTED CEILING PLAN
A301 1/8" = 1'-0"



1 FIRST FLOOR REFLECTED CEILING PLAN
A301 1/8" = 1'-0"

CLARIFICATION OF REFERENCE DESIGNATIONS

- P10 EXISTING PLASTER OF GYPSUM BOARD CEILING TO BE PAINTED.
- P11 EXISTING ACP CEILING TO REMAIN. REPAIR AND PATCH ACP.
- P12 EXISTING GRID TO REMAIN. PROVIDE NEW TILES.
- P24 EXISTING TVS TO REMAIN
- P25 NEW CEILING MOUNTED PROJECTOR
- P26 NEW SCONCE. LOCATE AT LOCATION OF EXITING FIXTURE.
- P28 AREA OF NEW FLOOR FRAMING. SEE STRUCTURAL.
- P29 EXISTING PIPING AND CONDUIT TO BE PARTIALLY ENCLOSED WITH NEW SOFFIT

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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
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- PORTION OF AREA TO BE DEMOLISHED

CLARIFICATION OF SYMBOLS REFLECTED CEILING PLAN

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- ACOUSTIC CEILING TILE
- GYPSUM BOARD OR EXISTING PLASTER
- SURFACE MOUNT FIXTURE
- LAY IN FLAT PANEL
- RECESSED DOWN LIGHT
- TRACK LIGHT
- FLUSH MOUNT
- WALL SCONCE
- DIRECT/ INDIRECT PENDANT
- SURFACE MOUNT
- WALL SCONCE
- PENDANT
- EXIT SIGN

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FIRST AND SECOND FLOOR REFLECTED CEILING PLAN

A301

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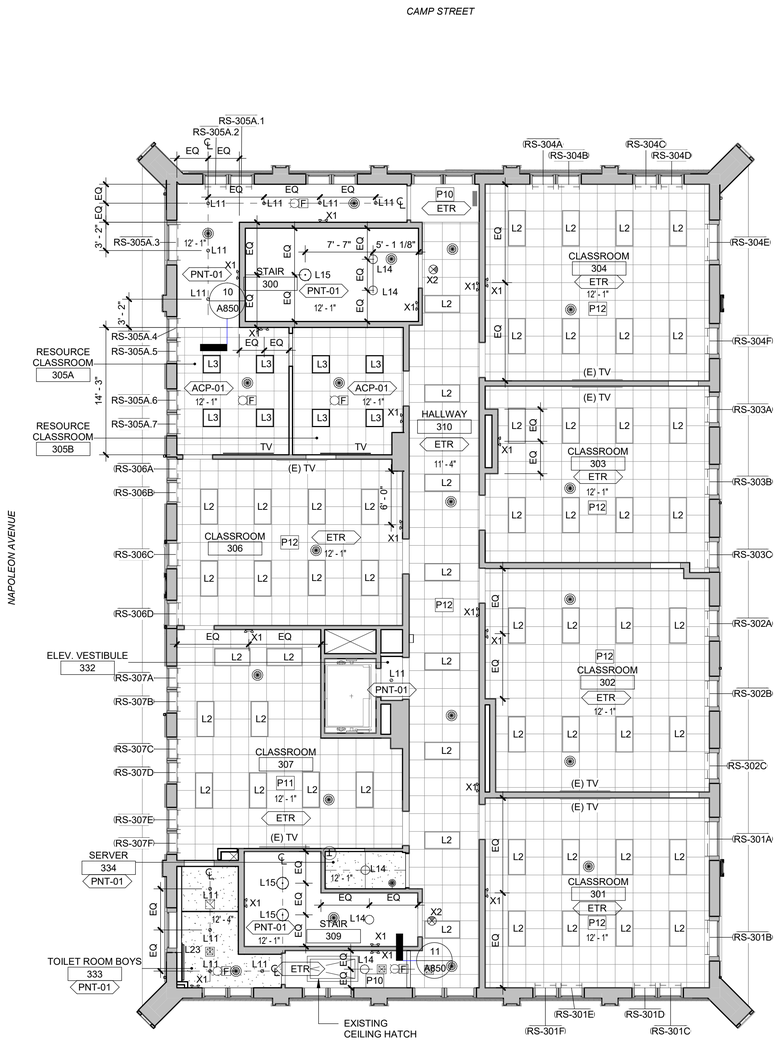
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CLARIFICATION OF REFERENCE DESIGNATIONS

P10 EXISTING PLASTER OF GYPSUM BOARD CEILING TO BE PAINTED.

P11 EXISTING ACP CEILING TO REMAIN. REPAIR AND PATCH ACP.

P12 EXISTING GRID TO REMAIN. PROVIDE NEW TILES.



1 A302 THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

CLARIFICATION OF SYMBOLS REFLECTED CEILING PLAN

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3. ALL SYMBOLS APPEARING IN THIS LISTING MAY NOT NECESSARILY BE SHOWN ON REFLECTED CEILING PLAN OR BE APPLICABLE TO THIS PROJECT.

- ACOUSTIC CEILING TILE
- GYPSUM BOARD
- SURFACE MOUNT FIXTURE
- LAY IN FLAT PANEL 2 X 2
- RECESSED DOWN LIGHT
- TRACK LIGHT
- FLUSH MOUNT
- WALL SCONCE
- DIRECT/ INDIRECT PENDANT
- SEMI FLUSH MOUNT ACCENT
- WALL SCONCE

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ST. GEORGE'S EPISCOPAL SCHOOL

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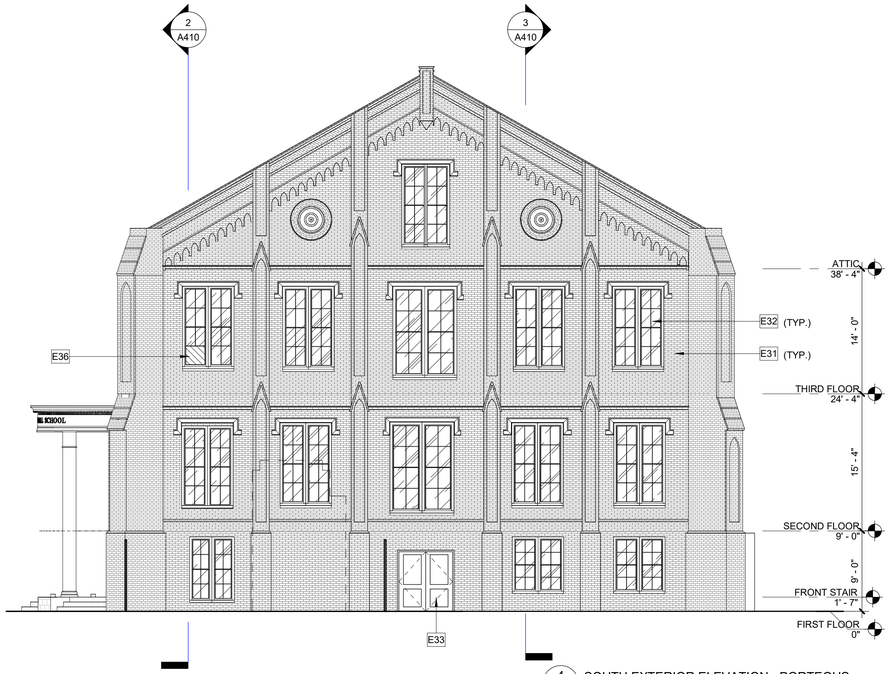
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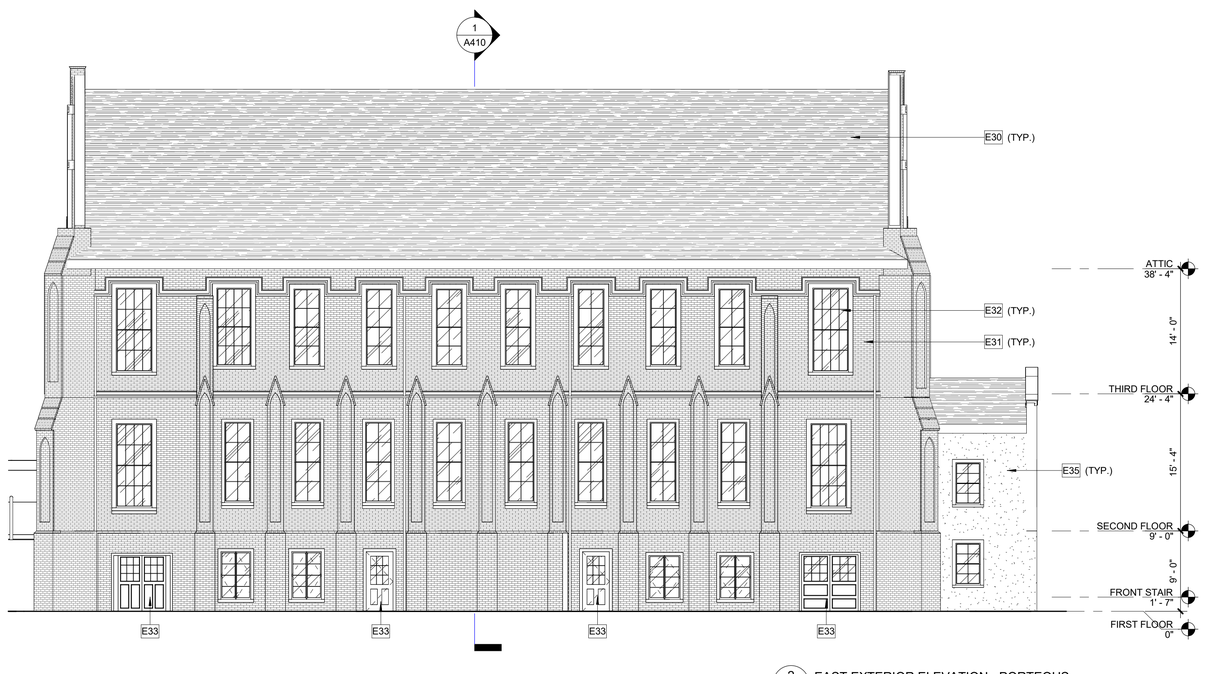
THIRD FLOOR REFLECTED CEILING PLAN

A302

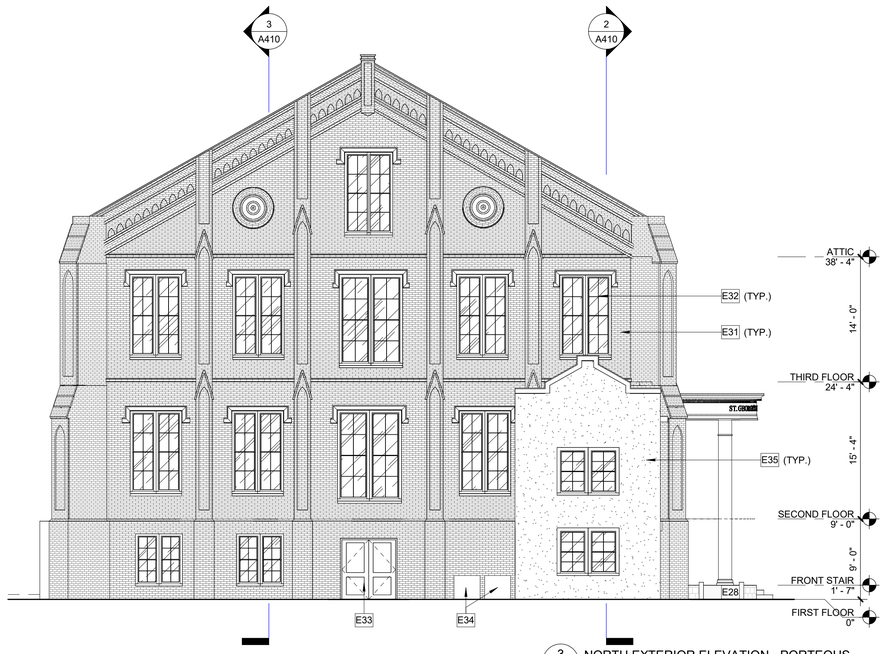
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4 A201|A401 SOUTH EXTERIOR ELEVATION - PORTEOUS
1/8" = 1'-0"



2 A201|A401 EAST EXTERIOR ELEVATION - PORTEOUS
1/8" = 1'-0"



3 A201|A401 NORTH EXTERIOR ELEVATION - PORTEOUS
1/8" = 1'-0"



1 A201|A401 WEST EXTERIOR ELEVATION - PORTEOUS
1/8" = 1'-0"

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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
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- PORTION OF AREA TO BE DEMOLISHED

CLARIFICATION OF REFERENCE DESIGNATIONS

E28	NEW CONCRETE RAMP AND METAL GUARDRAIL AND HANDRAIL.
E29	LOUVER MOUNTED IN BLANKED OFF WINDOW PANE. REFER TO MECH.
E30	EXISTING ROOFING TO REMAIN.
E31	EXISTING BRICK MASONRY TO REMAIN.
E32	EXISTING WINDOW TO REMAIN.
E33	EXISTING DOOR TO REMAIN.
E34	HVAC EQUIPMENT LOCATION.
E35	EXISTING PLASTER TO REMAIN.
E36	DROP SASH AND RE-SEAL WINDOW IN NEW WORK.

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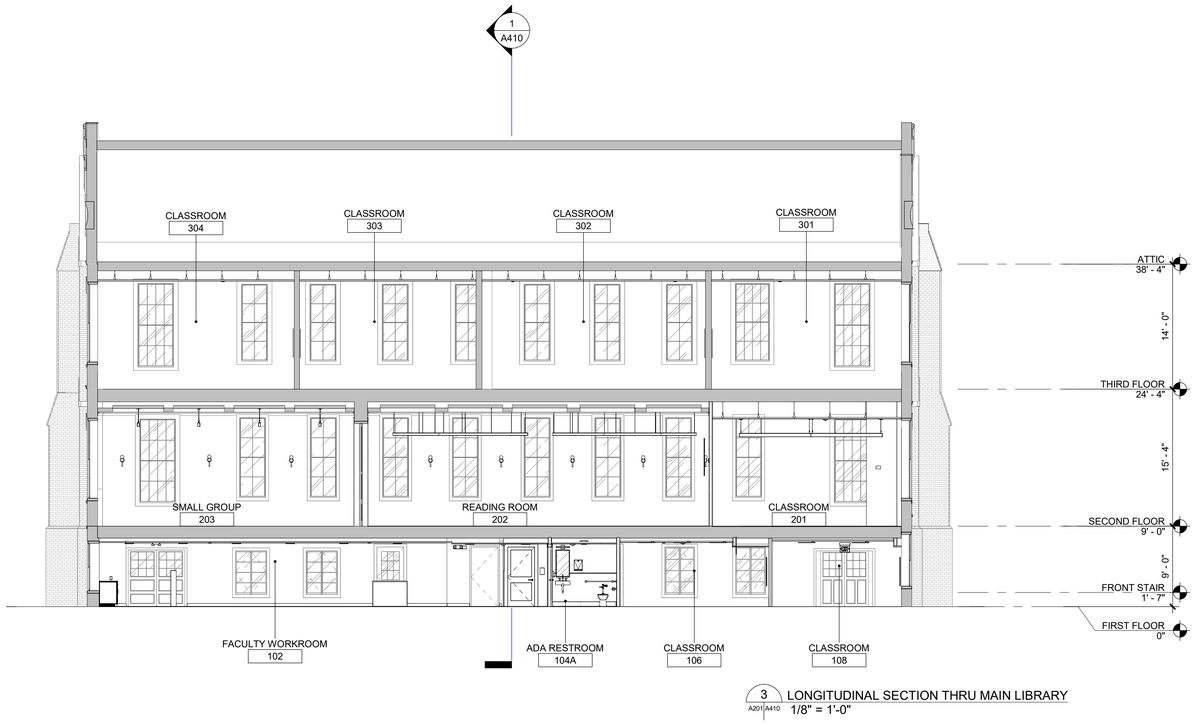
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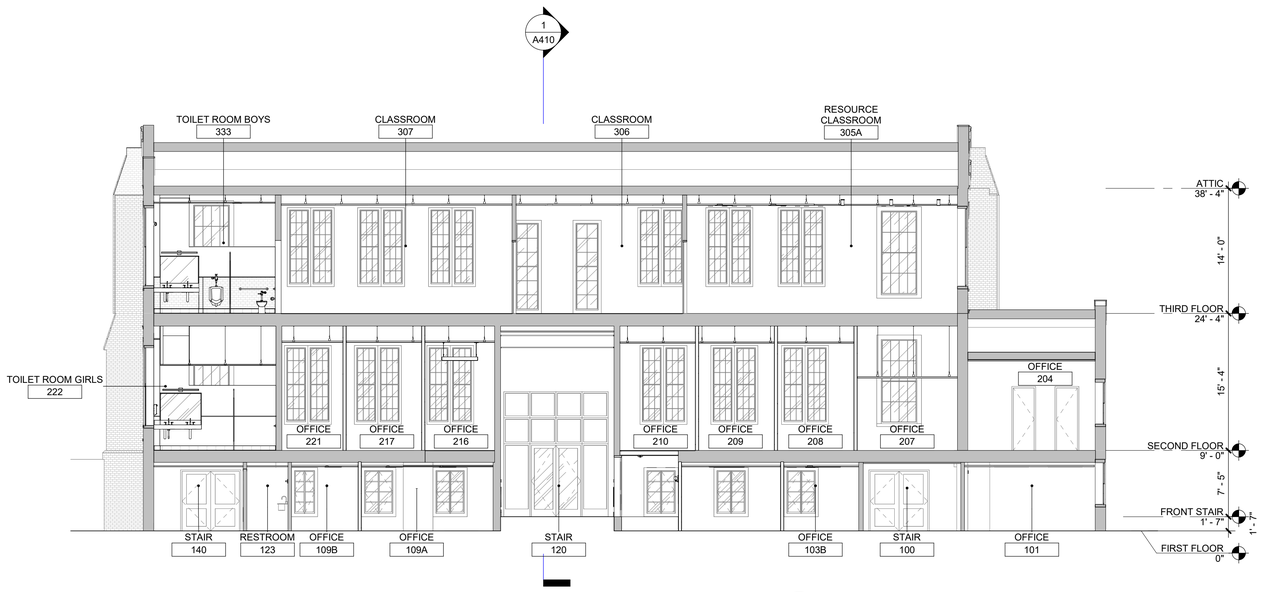
EXTERIOR ELEVATIONS

A401

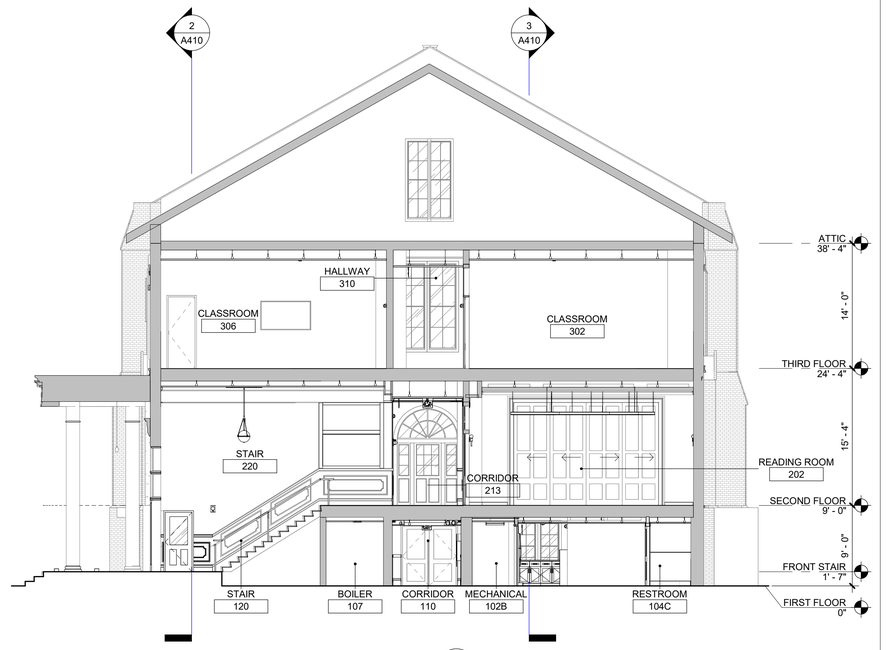
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3 A201|A410 LONGITUDINAL SECTION THRU MAIN LIBRARY
1/8" = 1'-0"



2 A201|A410 LONGITUDINAL SECTION THRU CENTRAL STAIR
1/8" = 1'-0"



1 A201|A410 TRANSVERSE SECTION THRU CENTRAL STAIR
1/8" = 1'-0"

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GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

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CROSS SECTION

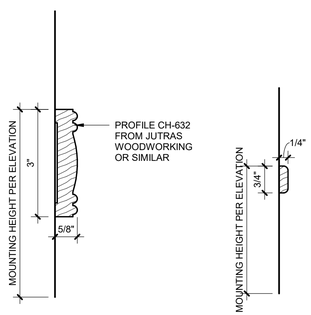
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FINISH SCHEDULE - RENOVATION

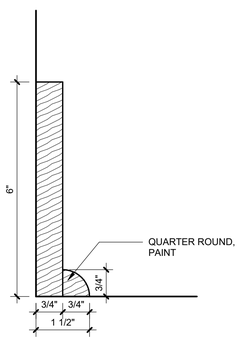
RM NO.	ROOM NAME	FLOOR - EXISTING	FLOOR - NEW	BASE - EXISTING	BASE - NEW	WALL - EXISTING	WALL - NEW	CEILING - EXISTING	CEILING - NEW	CROWN MOLDNG - EXISTING	CROWN MOLDING - NEW	MOLDING - EXISTING	MOLDING - NEW	COMMENTS
100	STAIR	SLATE TILE	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	WOOD WAINSCOAT	WOOD WAINSCOAT TO REMAIN, PNT-02	
101	OFFICE	LUXURY VINYL TILE	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
102	FACULTY WORKROOM	LUXURY VINYL TILE	LVT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
102A	WATER HEATER	LUXURY VINYL TILE	LVT-01	-	-	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
102B	MECHANICAL	LUXURY VINYL TILE	ETR	-	-	PAINT	ETR	GYPSUM BOARD	ETR	NONE	-	NONE	-	
102C	ELECTRICAL	LUXURY VINYL TILE	LVT-01	-	-	PAINT	ETR	GYPSUM BOARD	ETR	NONE	-	NONE	-	
102D	ELEC.	TILE	ETR	WOOD	ETR, PNT-02	PAINT	ETR	NONE	ETR	NONE	-	NONE	-	
102E	PHONE ROOM	LUXURY VINYL TILE	CPT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE		
102F	PHONE ROOM	LUXURY VINYL TILE	CPT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE		
102G	PANTRY	LUXURY VINYL TILE	LVT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE		
103	OFFICE	LUXURY VINYL TILE	LVT-01	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
103A	OFFICE	LUXURY VINYL TILE	LVT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
103B	OFFICE	LUXURY VINYL TILE	LVT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
103C	OFFICE	LUXURY VINYL TILE	LVT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
104	RESTROOM CORRIDOR	LUXURY VINYL TILE	LVT-01	-	WDB-01, PNT-02	-	PNT-01	GYPSUM BOARD	PNT-01	NONE	-			
104A	ADA RESTROOM	LUXURY VINYL TILE	TIL-01	WOOD	TIL-01	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	WBT-01, PNT-02	PNT-05 TO BOTTOM OF WBT-02, PNT-01 ABOVE
104B	ADA RESTROOM	LUXURY VINYL TILE	TIL-01	WOOD	TIL-01	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	WBT-01, PNT-02	PNT-05 TO BOTTOM OF WBT-02, PNT-01 ABOVE
104C	RESTROOM	LUXURY VINYL TILE	TIL-02	WOOD	TIL-01	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	WBT-01, PNT-02	PNT-05 TO BOTTOM OF WBT-02, PNT-01 ABOVE
105	RESOURCE	LUXURY VINYL TILE	LVT-01	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
106	CLASSROOM	LUXURY VINYL TILE	LVT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-01	NONE	-	NONE	-	
107	BOILER	SLATE TILE	ETR	-	-	PAINT	ETR	GYPSUM BOARD	ETR	NONE	-	NONE	-	
108	CLASSROOM	LUXURY VINYL TILE	LVT-01	RUBBER BASE	WDB-01, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
109	OFFICE	VINYL COMPOSITION TILE	LVT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
109A	OFFICE	VINYL COMPOSITION TILE	LVT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
109B	OFFICE	VINYL COMPOSITION TILE	LVT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
109C	OFFICE	VINYL COMPOSITION TILE	LVT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
109D	OFFICE	VINYL COMPOSITION TILE	LVT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
109E	ELEV. EQUIP ROOM	VINYL COMPOSITION TILE	ETR	WOOD	ETR	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
109F	MECHANICAL	VINYL COMPOSITION TILE	LVT-01	WOOD	NEW WOOD BASE, WDB-01	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE				
110	CORRIDOR	SLATE PAVERS	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	WBT-02, PNT-02	PNT-02 TO BOTTOM OF WBT-02, PNT-01 ABOVE
110A	VESTIBULE	VINYL COMPOSITION TILE	PAV-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	PNT-01	NONE	-	-	-	
110B	VESTIBULE	SLATE PAVERS	ETR	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	-	-	
112	MECHANICAL	LUXURY VINYL TILE	LVT-01	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
119	VESTIBULE	VINYL COMPOSITION TILE	PAV-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
120	STAIR	SLATE PAVERS	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	WOOD	ETR, PNT-01	WOOD WAINSCOAT	WOOD WAINSCOAT TO REMAIN, PNT-02	
123	RESTROOM	SLATE PAVERS	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
130A	ELEV. VESTIBULE	SLATE PAVERS	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
136	MECHANICAL	LUXURY VINYL TILE	LVT-01	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
140	STAIR	SLATE PAVERS	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
200	STAIR	WOOD, CARPET	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	WOOD	ETR, PNT-01	WOOD WAINSCOAT; PICTURE RAIL.	WOOD WAINSCOAT TO REMAIN. PICTURE RAIL TO REMAIN	
201	CLASSROOM	WOOD	CPT-02	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	ACP-01	WOOD	ETR, PNT-01	NONE	-	
202	READING ROOM	CARPET	CPT-04	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	WOOD	ETR, PNT-01	NONE	WBT-02, PNT-02	PNT-02 TO BOTTOM OF WBT-02, PNT-01 ABOVE
203	SMALL GROUP	CARPET	CPT-04	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	WOOD	ETR, PNT-01	NONE	WBT-02, PNT-02	PNT-02 TO BOTTOM OF WBT-02, PNT-01 ABOVE
204	OFFICE	CARPET	ETR	WOOD	ETR	PAINT	ETR	GYPSUM BOARD	ETR	WOOD	ETR, PNT-01	NONE	-	
205	RESTROOM	CARPET	ETR	WOOD	ETR	PAINT	ETR	GYPSUM BOARD	ETR	WOOD	ETR, PNT-01	NONE	-	
206	CLOSET	CARPET	ETR	WOOD	ETR	PAINT	ETR	GYPSUM BOARD	ETR	WOOD	ETR, PNT-01	NONE	-	
207	OFFICE	CARPET	CPT-01	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
208	OFFICE	CARPET	CPT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
209	OFFICE	CARPET	CPT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
210	OFFICE	CARPET	CPT-01	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
211	OFFICE	WOOD	ETR	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-01	NONE	-	NONE	-	
212	OFFICE	WOOD	ETR	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-02	NONE	-	NONE	-	
213	CORRIDOR	WOOD	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	WOOD	ETR, PNT-01	WOOD WAINSCOAT	WOOD WAINSCOAT TO REMAIN, PNT-02	PNT-02 TO CHAIR RAIL, PNT-01 ABOVE. SEE ELEVATIONS
214	ELEVATOR VESTIBULE	WOOD	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
215	OFFICE	CARPET	CPT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
216	OFFICE	CARPET	CPT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
217	OFFICE	CARPET	CPT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
219	OFFICE	CARPET	CPT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
220	STAIR	WOOD, CARPET	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	WOOD	ETR, PNT-01	WOOD WAINSCOAT; PICTURE RAIL.	WOOD WAINSCOAT TO REMAIN, PNT-02. PICTURE RAIL TO REMAIN	
221	OFFICE	CARPET	CPT-01	WOOD	WDB-01, PNT-02	PAINT	PNT-01	ACP	ACP-02	WOOD	ETR, PNT-01	NONE	-	
222	TOILET ROOM GIRLS	WOOD	TIL-01	WOOD	TIL-01	PAINT	PNT-01	ACP	PNT-01	NONE	-	NONE	WBT-01, PNT-05	PNT-06 TO BOTTOM OF WBT-01, PNT-01 ABOVE
235	STORAGE	WOOD	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
240	STAIR	WOOD, CARPET	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	WOOD WAINSCOAT; PICTURE RAIL.	WOOD WAINSCOAT TO REMAIN, PNT-02. PICTURE RAIL TO REMAIN	
241	MECHANICAL	CARPET	EXPOSED CONCRETE	WOOD	NONE	PAINT	PNT-01	ACP	NONE	NONE	-	NONE	-	
300	STAIR	WOOD, CARPET	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	WOOD	ETR, PNT-01	NONE	-	
301	CLASSROOM	CARPET	CPT-02	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
302	CLASSROOM	CARPET	CPT-02	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
303	CLASSROOM	CARPET	CPT-02	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
304	CLASSROOM	CARPET	CPT-02	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
305A	RESOURCE CLASSROOM	CARPET	CPT-02	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-01	NONE	-	NONE	-	
305B	RESOURCE CLASSROOM	CARPET	CPT-02	WOOD	SEE NOTE 1, PNT-02	PAINT	PNT-01	ACP	ACP-01	NONE	-	NONE	-	
306	CLASSROOM	CARPET	CPT-02	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
307	CLASSROOM	CARPET	CPT-02	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
309	STAIR	WOOD, CARPET	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	PNT-01	NONE	-	NONE	-	
310	HALLWAY	WOOD	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	ACP	ETR	NONE	-	NONE	-	
332	ELEV. VESTIBULE	WOOD	ETR	WOOD	ETR, PNT-02	PAINT	PNT-01	GYPSUM BOARD	PNT-01	NONE	-	NONE	-	
333	TOILET ROOM BOYS	WOOD	TIL-02	WOOD	TIL-01	PAINT	PNT-01	ACP	PNT-01	NONE	-	NONE	WBT-01, PNT-05	PNT-06 TO BOTTOM OF WBT-01, PNT-01 ABOVE
334	SERVER	CARPET	CPT-02	WOOD	RB-01	PAINT	PNT-01	ACP	PNT-01	NONE	-	NONE	-	

NOTE 1: EXISTING WOOD BASE TO REMAIN, AT NEW PARTITION PROVIDE WDB-01.



3 A600 MOLDING DETAIL - WDT-02
6" = 1'-0"

2 A600 MOLDING DETAIL - WDT-01
6" = 1'-0"



1 A600 BASE DETAIL - WDB-01
6" = 1'-0"

FINISH LEGEND

	DESCRIPTION	MANUFACTURER	COLOR / FINISH	COMMENTS	ALTERNATIVE
ACP-01	ACOUSTICAL CEILING PANEL	ARMSTRONG	CALLA SQUARE LAY-IN TEGULAR	2 X 4	
ACP-02	ACOUSTICAL CEILING PANEL	ARMSTRONG	CALLA SQUARE LAY-IN TEGULAR	2 X 2	
CPT-01	CARPET TILE	SHAW	BALCONY TILE / SHADE 5T389-88557	24X24 TILE, QUARTER TURN INSTALLATION. ADMINISTRATION	
CPT-02	CARPET TILE	TARKETT	COLORKNIT / REGAL BLUE 11128-30230	24X24 TILE, QUARTER TURN INSTALLATION. CLASSROOMS	
CPT-04	CARPET TILE	SHAW	GUSTAV TILE / PALACE 28486	24X24 TILE, MONOLITHIC INSTALLTION. LIBRARY	
CT-01	SOLID SURFACE COUNTERTOP	CORIAN	RAIN CLOUD	FACULTY LOUNGE COUNTERTOPS 3/4"	
CT-02	SOLID SURFACE COUNTERTOP	CORIAN	LAGUNA TERRAZZO	VANTITY TOP STUDENT RESTROOM, 3/4" THICK	POLYGOOD / WHITE LOLLIPOP #PS1601
ETR	EXISTING TO REMAIN	-	-	-	
LVT-01	LUXURY VINYL TILE	BPI PRESTIGE	ULTRA PLANK SAVANNAH	3mm OVERALL THICKNESS / 20 MIL WEAR LAYER	SHAW / PIVOT 4499V - MINDSET 00115 (PVC FREE)
PAV-01	SLATE PAVERS	-	-	TO MATCH EXISTING EXTERIOR PAVERS	
PNT-01	PAINT	BENJAMIN MOORE	BABY FAWN OC-15	CREAM WHITE	
PNT-02	PAINT	BENJAMIN MOORE	OCEAN FLOOR 1630	DARK BLUE TRIM	
PNT-03	PAINT	BENJAMIN MOORE	VANILLA MIILKSHAKE 2141-70	BRIGHT WHITE	
PNT-04	PAINT	BENJAMIN MOORE	SHADOW GREY 2125-40	MED BLUE GREY / NEW ADMIN INSERT	
PNT-05	PAINT	BENJAMIN MOORE	FLOWER POWER 398	BRIGHT GREEN ACCENT	
PNT-06	PAINT	BENJAMIN MOORE	BLUE RAY MARINA 1655	MED BLUE ACCENT	
RB-01	RUBBER BASE	ROPPE	BLACK 100	4" COVED	
TIL-01	FLOOR TILE	DALTILE	PORTFOLIO IRON GREY PF06 12 X24 MATTE	RESTROOM FLOOR AND MATCHING COVE BASE	
TIL-02	WALL TILE	DALTILE	COLOR WHEEL CLASSIC / WATERFALL 0169	BOYS RESTROOM WALL 3 X 6 RUNNING BOND	
TIL-03	WALL TILE	DALTILE	COLOR WHEEL CLASSIC / WATERFALL 0169	BACKSPLASH, 3 X 6 HORIZONTALSTACK BOND	WHITE 01000
WDB-01	WOOD BASE	-	PAINTED WOOD WITH QUARTER ROUND	SEE DETAIL 1/A600	
WDF-01	WOOD FLOORING	-	STAINED TO MATCH EXISTING.	CARRIBEAN PINE TONGUE AND GROOVE TO MATCH EXISTING WOOD FLOORS.	
WDT-01	WOOD TRIM	-	PAINTED SCREEN TRIM 3/4" x 1/4"	SEE DETAIL 2/A600	
WDT-02	WOOD TRIM	-	CHAIR RAIL	SEE DETAIL 3/A600	
WF-01	TRANSLUCENT WINDOW FILM	3M	FROSTED CRYSTAL GLASS FILM	RESTROOM WINDOWS - SEE ELEVATIONS	

STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GENERAL NOTES PERTAINING TO FINISHES

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3. UNLESS OTHERWISE INDICATED IN FINISH SCHEDULE, PAINT ALL NEW CONSTRUCTION LOCATIONS INDICATED IN SECTION 09 91 23.
4. WHERE EXISTING PARTITIONS ARE INDICATED TO REMAIN, REMOVE GYPSUM BOARD FROM NEW CEILING LOCATION TO FLOOR ON ONE SIDE OF PARTITION. REINSTALL GYPSUM BOARD AND PAINT. PATCH AND REPAIR GYPSUM BOARD LOCATIONS NOT REMOVED AND PREPARE FOR NEW PAINT FINISH PER NOTE 5 BELOW.
5. AT EXISTING CONSTRUCTION IN ROOMS AND AREAS INDICATED TO BE PAINTED, PAINT ENTIRE CONTINUOUS, UNBROKEN SURFACE OF ALL CUT AND PATCHED FINISHES, INCLUDING BUT NOT LIMITED TO CEILINGS, CMU AND CONCRETE PARTITIONS.
6. SEE SHEET A604 FOR TYPICAL WALL PARTITIONS.
7. SEE SHEET A600 FOR TYPICAL WALL BASE DETAILS.
8. SEE SPECIFICATIONS FOR ALL PAINT SHEENS. EGGSHELL TO BE USED FOR WALL APPLICATIONS ONLY WHEN INDICATED ON FINISH LEGEND.

STANDARD ABBREVIATIONS

ACP	Acoustical Ceiling Panel
CPT	Carpet
CT	Countertop
EPB	Epoxy Base
EPX	Epoxy
ETR	Existing to Remain
FRP	Fiberglass Reinforced Plastic
GYP	Gypsum Board
LVT	Luxury Vinyl Tile
PAV	Pavers
PLAM	Plastic Laminate
PNT	Paint
RB	Rubber Base
TIL	Tile
WD	Wood
WDB	Wood Base
WDF	Wood Floor

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

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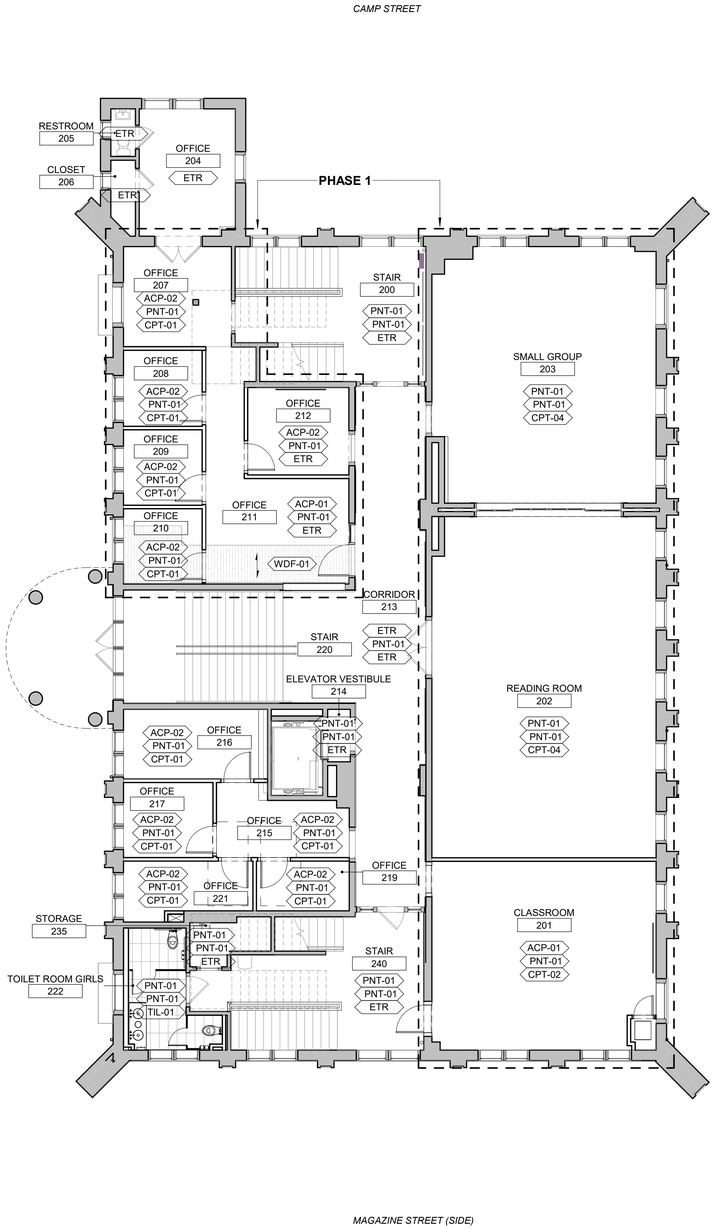
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FINISH SCHEDULE

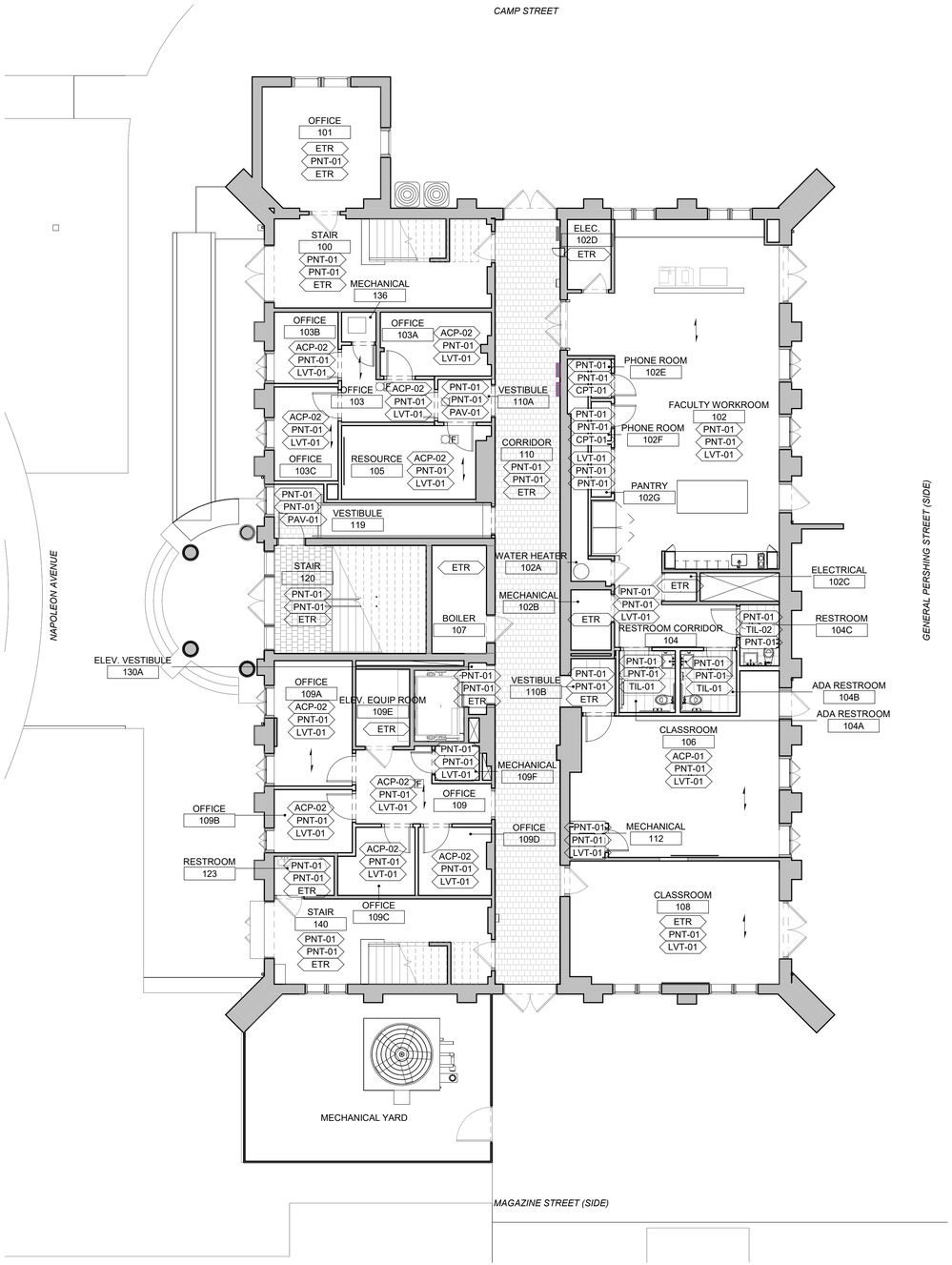
A600

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1 SECOND FLOOR FINISH PLAN
A601 1/8" = 1'-0"



2 FIRST FLOOR FINISH PLAN
A601 1/8" = 1'-0"

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STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

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CLARIFICATION OF SYMBOLS FINISH PLAN

FOR FLOOR FINISHES NOT SHOWN IN FINISH PLAN, REFER TO FINISH SCHEDULE.

- DIRECTION OF FINISH
- ACP-01 — ROOM CEILING FINISH
- FRP-01 — ROOM WALL FINISH
- LVT-01 — ROOM FLOOR FINISH

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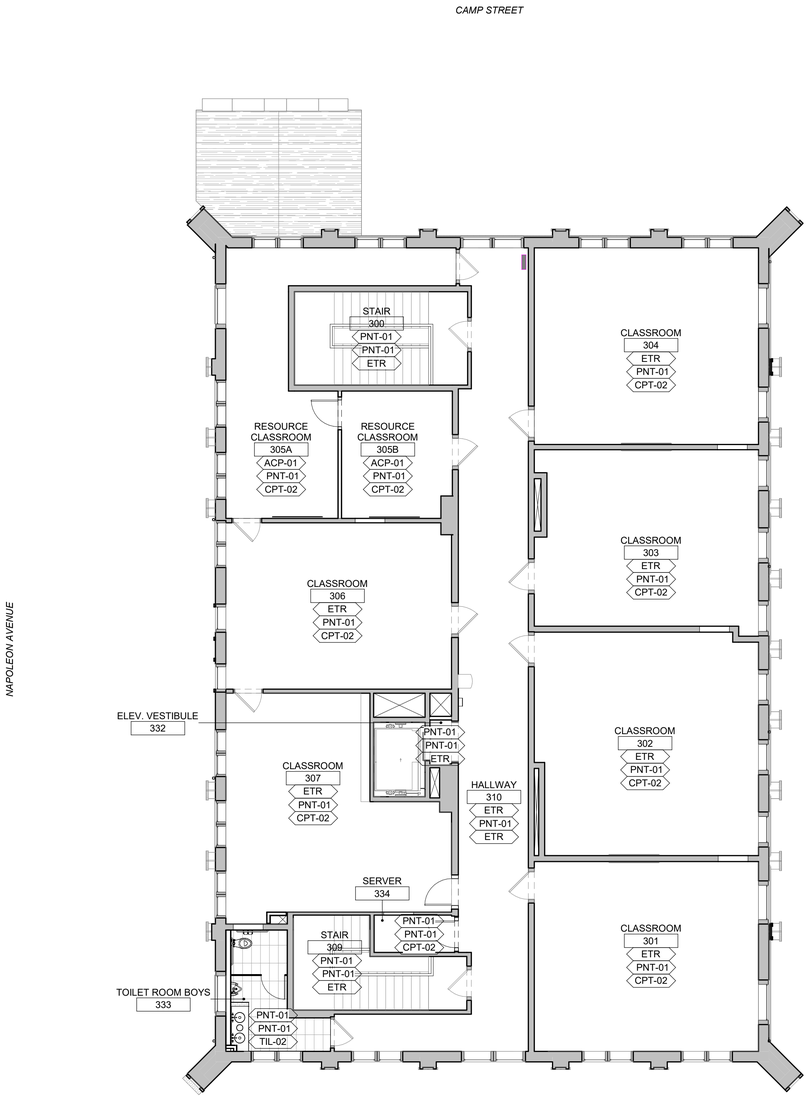
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FINISH PLANS - FIRST AND SECOND FLOOR

A601

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1 A602 THIRD FLOOR FINISH PLAN
1/8" = 1'-0"

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NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
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- ACP-01 ROOM CEILING FINISH
- FRP-01 ROOM WALL FINISH
- LVT-01 ROOM FLOOR FINISH

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FINISH PLAN - THIRD FLOOR

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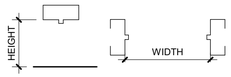
EXISTING FRAME AND DOOR SCHEDULE

DOOR NO.	TYPE	DOOR FRAME OPENING WIDTH	DOOR FRAME OPENING HEIGHT	DOOR FRAME MATERIAL	DETAIL NO.	DOOR PANEL DOOR (OR OPENING) DESCRIPTION	DOOR PANEL MATERIAL	DOOR PANEL FINISH	FIRE RATING	STC RATING	HARDWARE SET	COMMENTS
									60			
E100A	B	6' - 5"	6' - 8"	WD		PAIR WOOD PANELED SWINGING	WD	STAIN	-			EXTERIOR TYPE
E101	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	60		6.1	
E102	A	5' - 5"	6' - 3"	WD		PAIR 3 PANEL WOOD AND GLASS SWINGING	WD	PNT-02	20		6.3	
E102A	M	2' - 6"	6' - 8"	HM		FLUSH SWINGING WITH GRILLE	HM	PNT-02	-			
E102B	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	-			EXTERIOR TYPE
E102C	K	3' - 0"	6' - 8"	HM		FLUSH SWINGING	HM	PNT-02	-			
E102D	K	2' - 8"	6' - 0"	HM		FLUSH SWINGING	HM	PNT-02	-		3.0	
E102E	K	3' - 0"	6' - 8"	HM		FLUSH SWINGING	HM	PNT-02	-			
E102F	A	6' - 4"	6' - 4"	WD		PAIR 3 PANEL WOOD AND GLASS SWINGING	WD	PNT-02	-			NOT IN USE - LOCKED AND CLOSED
E106A	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	-			EXTERIOR TYPE
E107	K	3' - 0"	7' - 0"	HM		FLUSH SWINGING	HM	PNT-02	20		6.2	
E108	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	20		6.1	
E108B	A	6' - 4"	6' - 3"	WD		PAIR 3 PANEL WOOD AND GLASS SWINGING	WD	PNT-02	-			EXTERIOR TYPE
E109	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	20		6.2	
E109E	K	3' - 0"	8' - 0"	HM		FLUSH SWINGING	HM	PNT-02	-			
E110	B	6' - 0"	6' - 8"	WD		PAIR WOOD PANELED SWINGING	WD	STAIN	-			EXTERIOR TYPE
E111B	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	20			
E120	F	5' - 6"	8' - 0"	AL		PAIR METAL AND GLASS SWINGING	AL	AL-01	-			EXTERIOR TYPE
E123	E	3' - 0"	6' - 8"	WD		6 PANELED SWINGING	WD	PNT-02	60		6.2	
E130A	L	4' - 4 1/2"	6' - 8"	WD		CASED OPENING	-	-	-		--	
E140	B	6' - 5"	6' - 8"	WD		PAIR WOOD PANELED SWINGING	WD	STAIN	-			EXTERIOR TYPE
E141	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	60			
E142	B	6' - 0"	6' - 8"	WD		PAIR WOOD PANELED SWINGING	WD	STAIN	-			EXTERIOR TYPE
E200	H	6' - 1"	7' - 0"	WD		3 PANEL WOOD & GLASS SWINGING DOOR WITH SIDELIGHTS AND TRANSOM	WD	PNT-02	60			
E202A	G	6' - 1"	8' - 0"	WD		PAIR 3 PANEL WOOD & GLASS SWINGING DOOR WITH TRANSOM	WD	PNT-02	20			
E202B	N	16' - 2"	11' - 6"	WD		PAIR WOOD PANELED POCKET	WD	STAIN	-		--	POCKET DOORS
E203	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20			
E204	-	5' - 0"	7' - 0"	WD		PAIR WOOD SWINGING	WD	-	-			NOT IN SCOPE
E205	-	2' - 4"	7' - 0"	WD		FLUSH SWINGING	WD	-	-			NOT IN SCOPE
E206	-	2' - 4"	7' - 0"	WD		FLUSH SWINGING	WD	-	-			NOT IN SCOPE
E207	C	3' - 0"	6' - 8"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	60		6.1	
E212	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20			
E215	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20			
E222	D	3' - 0"	6' - 0"	WD		4 PANEL SWINGING	WD	PNT-02	60			
E235	D	2' - 0"	6' - 0"	WD		4 PANEL FLUSH SWINGING	WD	PNT-02	60			
E240	H	6' - 1"	7' - 0"	WD		3 PANEL WOOD & GLASS SWINGING DOOR WITH SIDELIGHTS AND TRANSOM	WD	PNT-02	60			
E300	C	3' - 0"	7' - 0"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	60			
E301	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	
E302	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	
E303	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	
E304	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	
E305	C	3' - 0"	7' - 0"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	20		6.2	
E305A	K	3' - 0"	8' - 0"	HM		FLUSH SWINGING	HM	PNT-02	-		6.1	
E305B	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	
E306A	J	3' - 1"	8' - 0"	WD		4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	
E306B	K	3' - 0"	8' - 0"	HM		FLUSH SWINGING	HM	PNT-02	-			
E309	C	3' - 0"	7' - 0"	WD		3 PANEL WOOD & GLASS SWINGING DOOR	HM	PNT-02	60			
E332	L	4' - 4"	8' - 0"	WD		CASED OPENING	-	-	-		--	
E333	E	3' - 0"	7' - 0"	WD		6 PANELED SWINGING	WD	PNT-02	-			

NOTE 1: EXISTING DOOR SCHEDULE PROVIDED FOR REFERENCE.
NOTE 2: ALL EXISTING DOORS TO RECEIVE NEW PAINT. EXTERIOR DOORS TO RECEIVE PAINT AT INTERIOR FACE ONLY.
NOTE 3: REPLACE NON-COMPLIANT HARDWARE (KNOB HANDLES) TO BE REPLACED WITH LEVER-TYPE HANDLE.

FRAME AND DOOR SCHEDULE

1. UNLESS OTHERWISE NOTED, ALL DOORS SHALL BE 1-3/4" THICK.
2. FOR UNDERCUTTING AND/OR DOOR GRILLS, REFER TO HVAC FLOOR PLANS.
3. FIRE RATING FOR DOOR IS INDICATED IN MINUTES.
4. SEE BELOW FOR CLARIFICATION OF MATERIALS AND FINISHES.
5. FOR DOOR HARDWARE SCHEDULE, SEE SECTION 08 06 71.
6. FOR TYPICAL DOOR FRAME DETAILS SEE SHEETS A611.
7. GENERAL CONTRACTOR IS TO CONFIRM SIZING OF ALL NEW DOOR ASSEMBLIES TO BE INSTALLED IN EXISTING WALLS AND OPENINGS.
8. ALL HOLLOW METAL FRAMES AND DOORS TO BE FIELD PAINTED.



FRAME MATERIAL
HM - STEEL (HOLLOW METAL)
AL - ALUMINUM

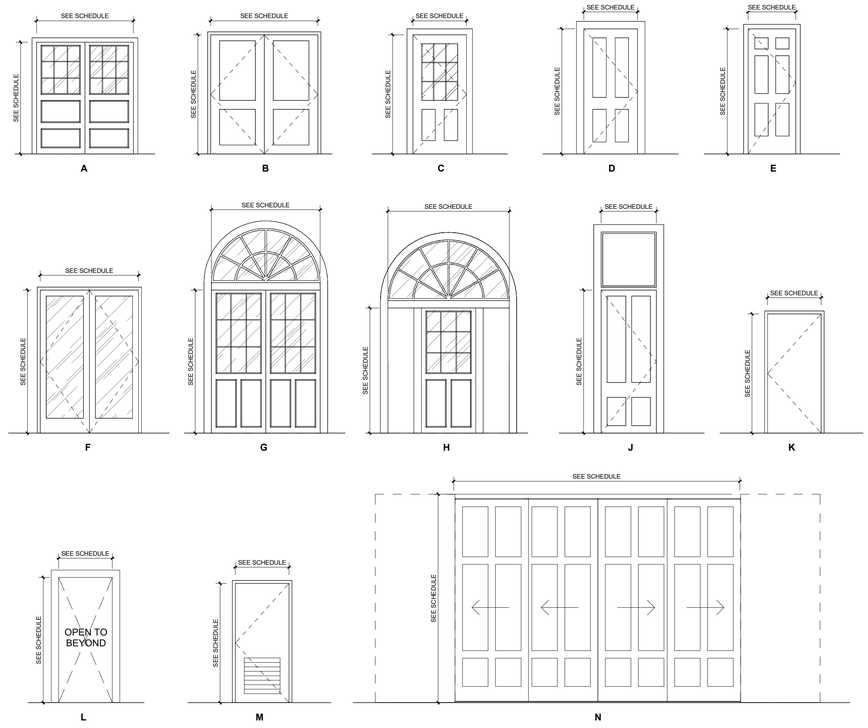
FRAME FINISH
AL-01 - CLEAR ANODIZED
PNT-XX - PAINTED, SEE FINISH SCHEDULE

DOOR MATERIAL
HM - FLUSH HOLLOW METAL
HME - FLUSH HOLLOW METAL, EXTERIOR TYPE
AL - ALUMINUM AND GLASS
WD - FLUSH SOLID CORE WOOD DOOR

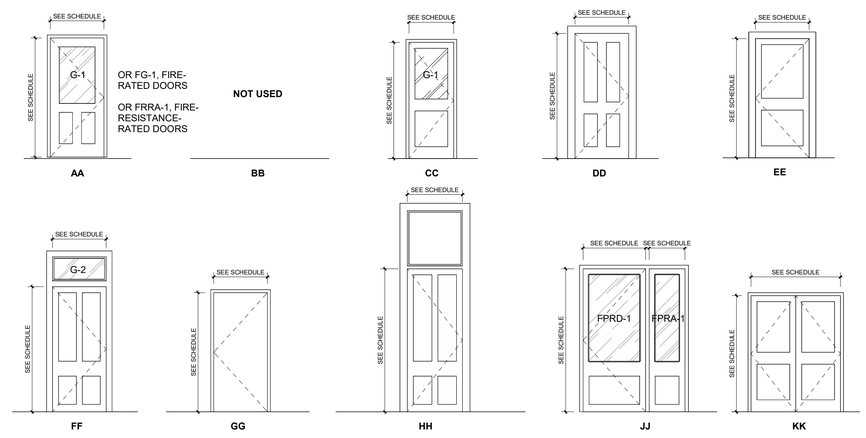
DOOR FINISH
AL-01 - CLEAR ANODIZED
PNT-XX - PAINTED, SEE FINISH SCHEDULE
WD-XX - WOOD VENEER, SEE FINISH SCHEDULE

DOOR NO.	TYPE	FRAME OPENING WIDTH	FRAME OPENING HEIGHT	FRAME MATERIAL	DETAIL NO.	DOOR (OR OPENING) DESCRIPTION	DOOR MATERIAL	DOOR FINISH	FIRE RATING	STC RATING	HARDWARE SET	COMMENTS
102F	CC	2' - 6"	6' - 6"	WD	11	2 PANEL WOOD AND GLASS SWINGING	WD	PNT-02			5.2	PHONE BOOTH DOOR
102G	KK	5' - 0"	6' - 6"	WD	11	PAIR WOOD PANELED SWINGING	WD	PNT-02			5.3	
102H	CC	2' - 6"	6' - 6"	WD	11	2 PANEL WOOD AND GLASS SWINGING	WD	PNT-02			5.2	PHONE BOOTH DOOR
103	AA	3' - 0"	6' - 8"	HM	12	3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	20		2.1	
103A	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
103B	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
103C	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
104A	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			4.1	
104B	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			4.1	
104C	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			4.2	
105	DD	3' - 0"	6' - 8"	HM	12	4 PANEL SWINGING	WD	PNT-02	20		1.1	
106	AA	3' - 0"	6' - 8"	HM	12	3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	20		1.1	
109A	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
109B	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
109C	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
109D	EE	3' - 0"	6' - 8"	WD	11	2 PANEL SWINGING	WD	PNT-02			2.1	
109F	MM	2' - 6"	6' - 8"	HM	9	FLUSH SWINGING WITH GRILLE	HM	PNT-02			3.0	
110A	LL	3' - 6"	6' - 8"	WD	8	CASED OPENING	--	PNT-02			--	
110B	LL	3' - 0"	6' - 8"	WD	8	CASED OPENING	--	PNT-02			--	
112	MM	2' - 6"	6' - 0"	HM	9	FLUSH SWINGING WITH GRILLE	HM	PNT-02			3.0	
119	AA	3' - 0"	6' - 8"	HM	10	3 PANEL WOOD & GLASS SWINGING DOOR	WD	PNT-02	60		7.2	
136	MM	2' - 6"	6' - 6"	HM	9	FLUSH SWINGING WITH GRILLE	HM	PNT-02			3.0	
201A	J	3' - 1"	8' - 0"	WD	-	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	20		6.2	EXISTING DOOR HINGE FLIPPED.
201B	HH	3' - 1"	8' - 0"	HM	10	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02	60		1.2	
208	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
209	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
210	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
211	JJ	3' - 6"	8' - 0"	HM	4,5,6,7	WOOD AND GLASS SWINGING W/ SIDELITE	FR	PNT-02	20		2.1	
212	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
216	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
217	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
219	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
221	FF	3' - 0"	7' - 0"	WD	11	4 PANEL WOOD SWINGING WITH TRANSOM	WD	PNT-02			2.1	
241	GG	2' - 2"	7' - 0"	HM	9	FLUSH SWINGING	HM	PNT-02			3.0	
306	EE	3' - 0"	8' - 0"	WD	11	2 PANEL SWINGING	WD	PNT-02			1.5	
307	DD	3' - 0"	8' - 0"	HM	10	4 PANEL SWINGING	WD	PNT-02	20		1.1	
334	DD	3' - 0"	8' - 0"	WD	11	4 PANEL SWINGING	WD	PNT-02			3.1	

EXISTING FRAME AND DOOR TYPES



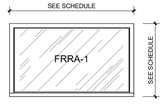
NEW FRAME AND DOOR TYPES



NEW WINDOW SCHEDULE

TYPE MARK	OPENING WIDTH	OPENING HEIGHT	MATERIAL	GLAZING TYPE	DETAIL NO.	COMMENTS
Q	6' - 11 3/8"	4' - 1"	STL	60 MIN	1-3/A611	WOOD TRIM TO CONCEAL FRAME, SEE DETAILS

NEW WINDOW TYPES



STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

STANDARD ABBREVIATIONS

ACP	Acoustical Ceiling Panel
CPT	Carpet
CT	Countertop
EPB	Epoxy Base
EPX	Epoxy
ETR	Existing to Remain
FRP	Fiberglass Reinforced Plastic
GYP	Gypsum Board
LVT	Luxury Vinyl Tile
PAV	Pavers
PLAM	Plastic Laminate
PNT	Paint
RB	Rubber Base
TIL	Tile
WD	Wood
WDB	Wood Base
WDF	Wood Floor

CLARIFICATION OF SYMBOLS
GLASS TYPES

G-1 - TEMPERED GLASS
G-2 - HEAT-STRENGTHENED GLASS
FG-1 - FIRE-RATED GLASS, 20 MINUTES
FPRA-1 - FIRE-RESISTANCE-RATED ASSEMBLY, 45 MINUTES
FPRD-1 - FIRE-PROTECTION-RATED DOOR, 20 MINUTES
FRRA-1 - FIRE-RESISTANCE-RATED ASSEMBLY, 60 MINUTES

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

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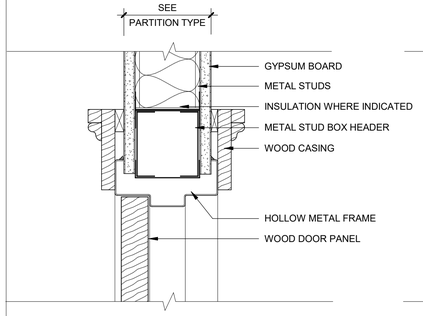
ISSUE DATE | 27 AUGUST 2025
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DOOR & FRAME AND WINDOW SCHEDULE

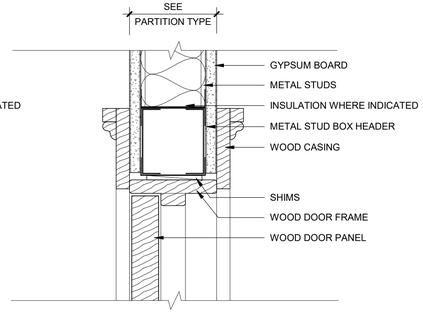
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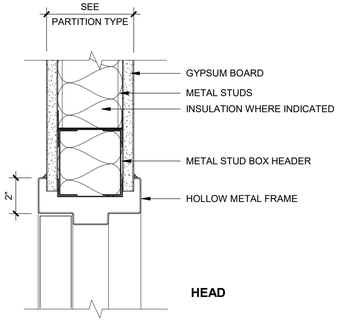
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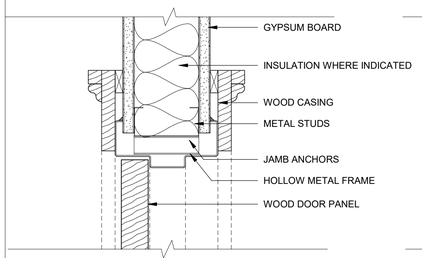
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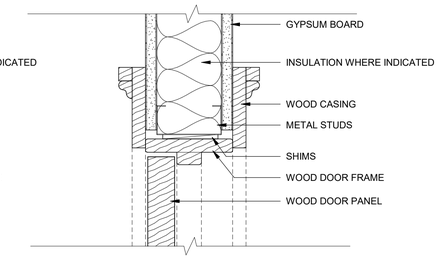
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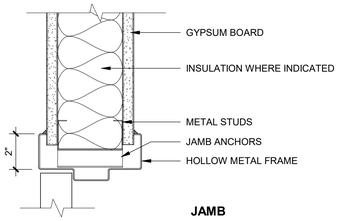
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JAMB



JAMB

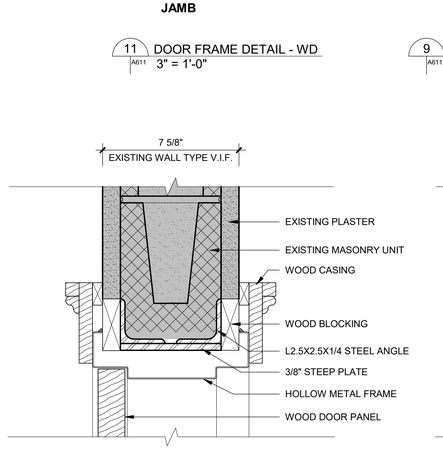


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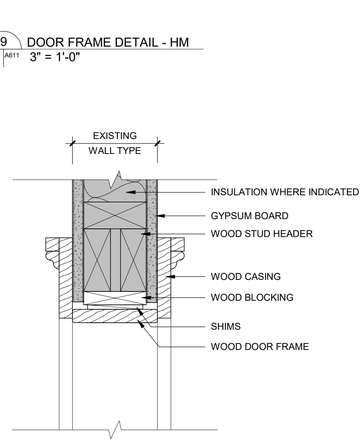
12 A611 DOOR FRAME DETAIL - HM W/ WOOD TRIM
3" = 1'-0"

11 A611 DOOR FRAME DETAIL - WD
3" = 1'-0"

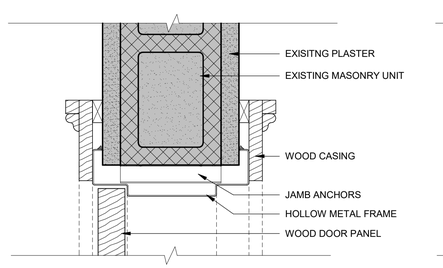
9 A611 DOOR FRAME DETAIL - HM
3" = 1'-0"



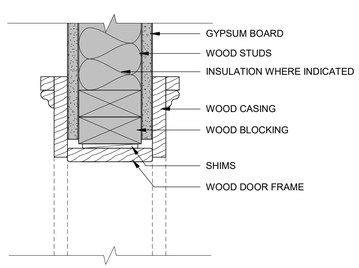
HEAD



HEAD



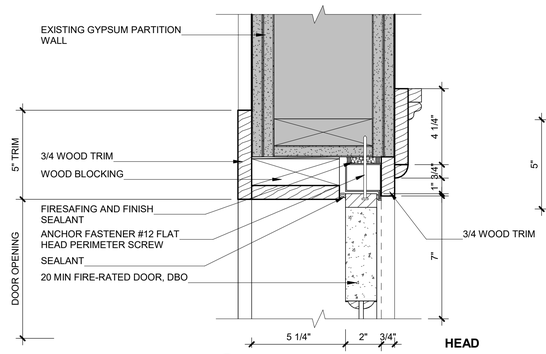
JAMB



JAMB

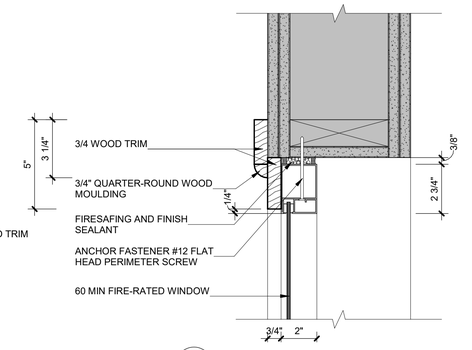
10 A611 DOOR FRAME DETAIL - HM @ EXISTING WALL
3" = 1'-0"

8 A611 DOOR FRAME DETAIL - CASED OPENING
3" = 1'-0"

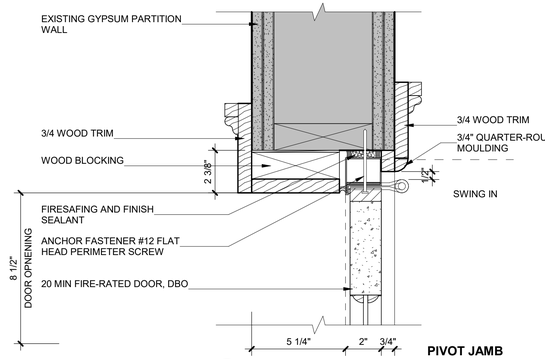


HEAD

7 A820/A611 SECTION THRU DOOR TYPE JJ - HEAD
3" = 1'-0"

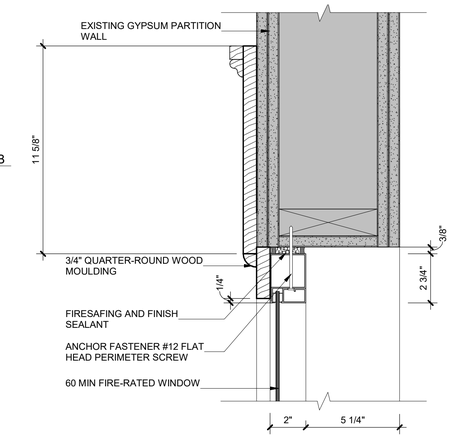


3 A820/A611 SECTION THRU WINDOW TYPE Q - HEAD
3" = 1'-0"

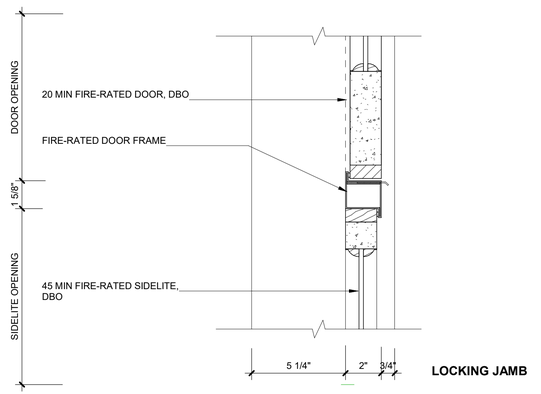


PIVOT JAMB

6 A820/A611 SECTION THRU DOOR TYPE JJ - PIVOT JAMB
3" = 1'-0"

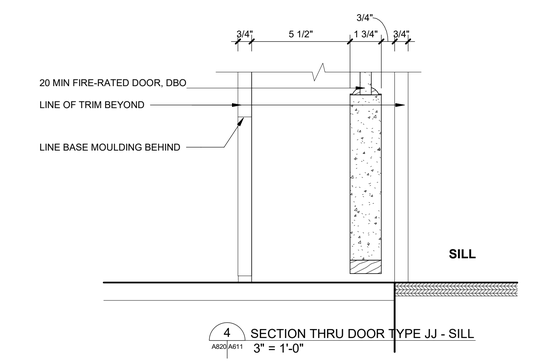


2 A820/A611 SECTION THRU WINDOW TYPE Q - JAMB
3" = 1'-0"



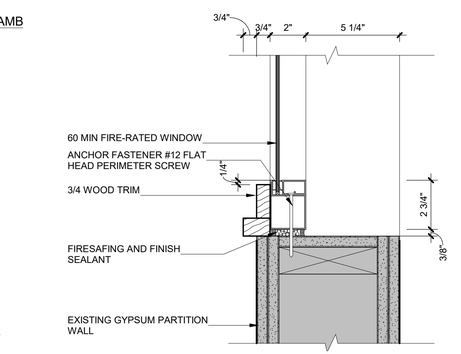
LOCKING JAMB

5 A820/A611 SECTION THRU DOOR TYPE JJ - LOCKING JAMB
3" = 1'-0"



SILL

4 A820/A611 SECTION THRU DOOR TYPE JJ - SILL
3" = 1'-0"



1 A820/A611 SECTION THRU WINDOW TYPE Q - SILL
3" = 1'-0"

STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

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DOOR & FRAME AND WINDOW DETAILS

A611

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STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

PLUMBING FIXTURE SCHEDULE

ITEM NO.	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
PL-01	FLOOR MOUNTED TOILET & MANUAL FLUSH VALVE	SLOAN	ST-2029 FLUSH VALVE - SLOAN: GEM-2 111-1.28-XL	WHITE	
PL-02	WALL MOUNTED SINK	AMERICAN STANDARD	9024.008EC	WHITE	WIDESET 3 HOLE BASIN WITH OVERFLOW
PL-03	BATHROOM SINK FAUCET	DELTA	35749LF-SS	STAINLESS	TWO HANDLE WIDESPREAD BATHROOM FAUCET
PL-04	ROUND UNDERMOUNT SINK	AMERICAN STANDARD	0630.000	WHITE	ROUND UNDERMOUNT SINK WITH FRONT OVERFLOW
PL-05	WALL MOUNTED URINAL & MANUAL FLUSH VALVE	SLOAN	WEUS-1000.1001	WHITE	
PL-06	UNDERMOUNT SINK	ELKAY	ELUHAD211545	SATIN STAINLESS STEEL	
PL-07	KITCHEN FAUCET	DELTA	9159-AR-DST	ARTIC STAINLESS	SINGLE HANDLE PULL-DOWN KITCHEN FAUCET

TOILET ROOM ACCESSORY SCHEDULE

ITEM NO.	DESCRIPTION	MANUFACTURER	MODEL	FINISH / MATERIAL	COMMENTS
1	36" GRAB BAR	BOBRICK	B-5806x36	STAINLESS STEEL	
2	42" GRAB BAR	BOBRICK	B-6806 X 42	STAINLESS STEEL	
4	DOUBLE TOILET PAPER DISPENSER	BOBRICK	B265	STAINLESS STEEL	
5	MIRROR	BOBRICK	B-165 1836	STAINLESS STEEL	18" x 26"
6	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	STAINLESS STEEL	
7	SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK	B-262	STAINLESS STEEL	
8	SURFACE MOUNTED BABY CHANGING STATION	KOALA KARE	KB310-SSWM	STAINLESS STEEL	
9	WASTE CHUTE GROMMET	MOCKETT	TM2C	SATIN STAINLESS STEEL	8" DIA. X 3" DEEP STAINLESS STEEL TRASH GROMMET
10	MIRROR	-	-	CLEAR MIRROR, WOOD FRAME PNT-05	SEE ELEVATIONS FOR SIZING

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

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PLUMBING FIXTURES & ACCESSORIES SCHEDULES

A615

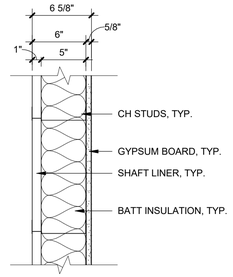
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STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GENERAL NOTES PERTAINING TO PARTITIONS

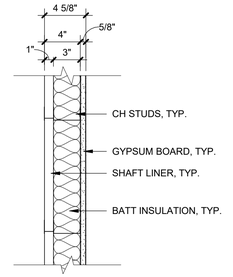
1. UNLESS OTHERWISE INDICATED, ALL INTERIOR PARTITION DIMENSIONS ARE FACE TO FACE TO FINISH SURFACES.
2. FOR ROOM FINISH SCHEDULE REFER TO SHEET A600.
3. FOR FRAME AND DOOR SCHEDULE REFER TO SHEET A604.
4. ALL DIMENSIONS SHOWN AT EXISTING CONDITIONS ARE PLUS OR MINUS AND SHOULD BE VERIFIED, IF NECESSARY, ON THE PROJECT SITE.
5. ALL STUDS SHALL BE METAL, UNLESS NOTED OTHERWISE.
6. ALL STUDS SHALL BE SPACED 16" O.C.
7. ALL STUDS SHALL EXTEND FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
8. WHERE A PARTITION TYPE IS NOT INDICATED ON THE FLOOR PLANS, THE PARTITION TYPE SHALL BE 10.0B.
9. ALL GYPSUM BOARD SHALL BE 5/8" THICK, TYPE X. PROVIDE GLASS MAT-FACED GYPSUM BOARD AT ALL WET AREAS BEHIND PLUMBING FIXTURES. PROVIDE MOLD-RESISTANT GYPSUM BOARD BEHIND TILE LOCATIONS NOT IN WET AREAS AND IN ALL LOCATIONS WHERE GYPSUM BOARD IS INSTALLED PRIOR TO ESTABLISHING AIR CONDITIONED SPACE.
10. TERMINATE ALL GYPSUM BOARD:
    A. AT THE UNDERSIDE OF GYPSUM BOARD CEILINGS
    B. 6" ABOVE ALL OTHER CEILINGS
    C. AT THE UNDERSIDE OF DECK ABOVE WHERE CEILINGS DO NOT OCCUR.
    D. AT THE UNDERSIDE OF DECK FOR ALL FIRE RESISTANCE-RATED AND STC-RATED PARTITIONS.
11. SEAL ALL FIRE AND STC-RATED PARTITIONS TO ADJACENT CONSTRUCTION WITH SPECIFIED SEALANTS. PROVIDE ACOUSTIC INSULATION TO FILL STUD CAVITY FOR ALL STC-RATED WALLS UNLESS NOTED OTHERWISE.



ONE LAYER OF TYPE X GYPSUM BOARD ON ONE SIDE OF 6" CH STUDS, 20 GA. SPACED 24" O.C., AND ONE LAYER OF 1" GYPSUM BOARD SHAFT LINER ON THE OPPOSITE SIDE WITH BATT INSULATION

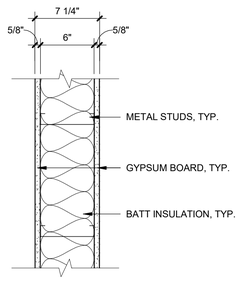
23.1C

UL# U499
ACOUSTIC TEST: GA WP 6905
STC: 42



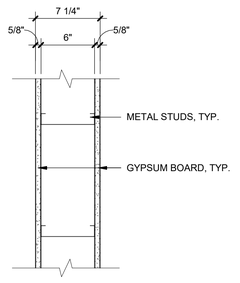
ONE LAYER OF TYPE X GYPSUM BOARD ON ONE SIDE OF 4" CH STUDS, 20 GA. SPACED 24" O.C., AND ONE LAYER OF 1" GYPSUM BOARD SHAFT LINER ON THE OPPOSITE SIDE WITH BATT INSULATION

22.1C



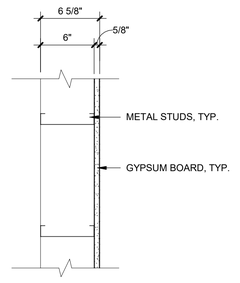
ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 6" METAL STUDS WITH BATT INSULATION

12.0C



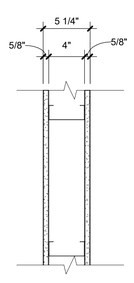
ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 6" METAL STUDS

12.0B



ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF 6" METAL STUDS

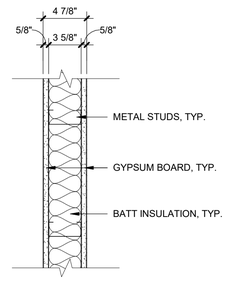
12.0A



ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 4" METAL STUDS

11.1

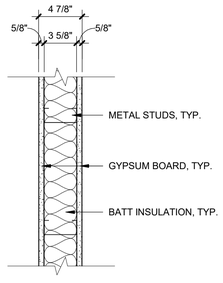
UL# U419
ACOUSTIC TEST: XXXX



ONE LAYER OF TYPE X GYPSUM BOARD ON BOTH SIDES OF 3 5/8" METAL STUDS WITH BATT INSULATION

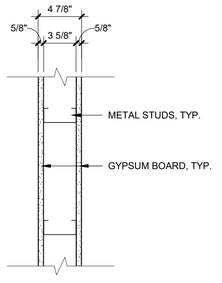
10.1C

UL# U419



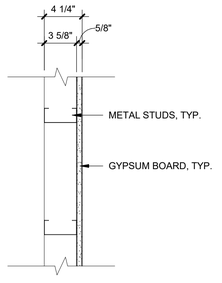
ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 3 5/8" METAL STUDS WITH BATT INSULATION

10.0C



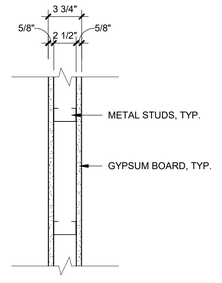
ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 3 5/8" METAL STUDS

10.0B



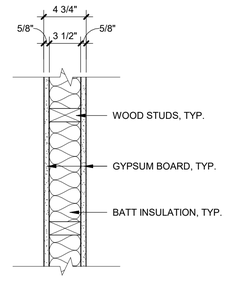
ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF 3 5/8" METAL STUDS

10.0A



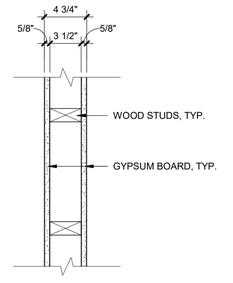
ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 2 1/2" METAL STUDS

9.0B



ONE LAYER OF TYPE X GYPSUM BOARD ON BOTH SIDES OF 2X4 WOOD STUDS WITH BATT INSULATION

5.1C



ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF 2X4 WOOD STUDS

5.0B

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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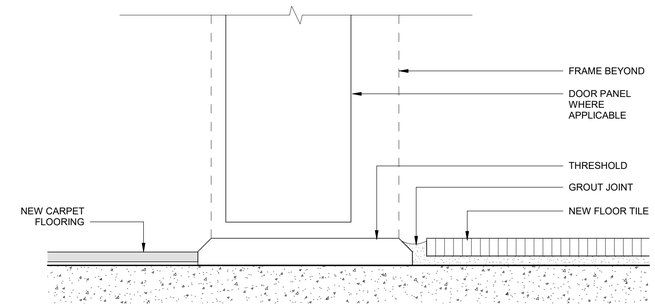
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CLARIFICATION OF PARTITION TYPES

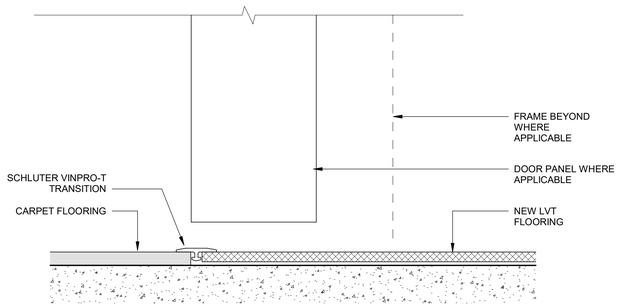
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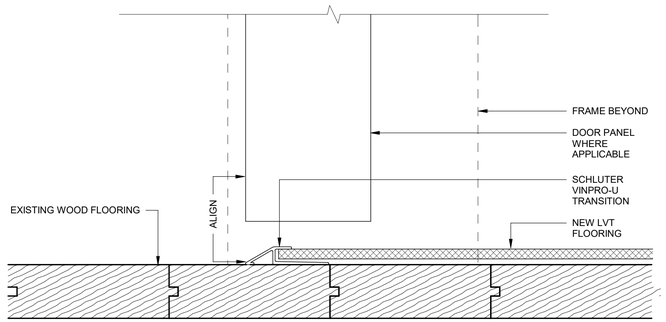
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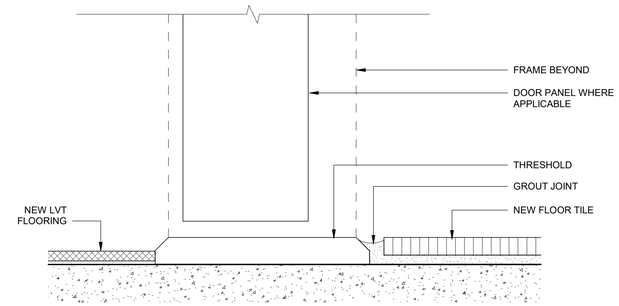
8 A621 FLOOR TRANSITION - NEW CARPET TO NEW TILE FLOORING
12" = 1'-0"



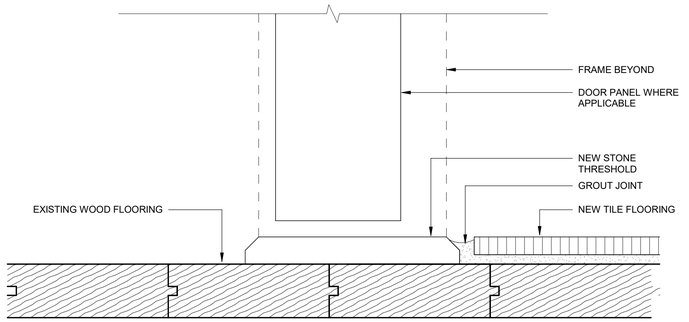
4 A621 FLOOR TRANSITION - NEW LVT TO NEW CARPET
12" = 1'-0"



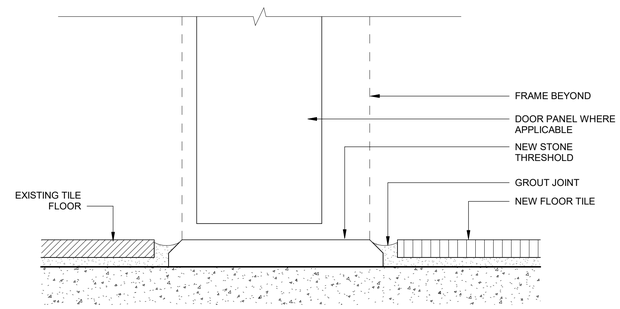
7 A621 FLOOR TRANSITION - EXISTING WOOD FLOORING TO NEW LVT
12" = 1'-0"



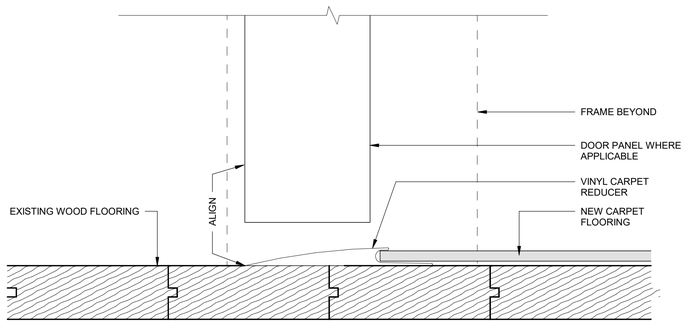
3 A621 FLOOR TRANSITION - NEW LVT FLOOR TO NEW TILE FLOORING
12" = 1'-0"



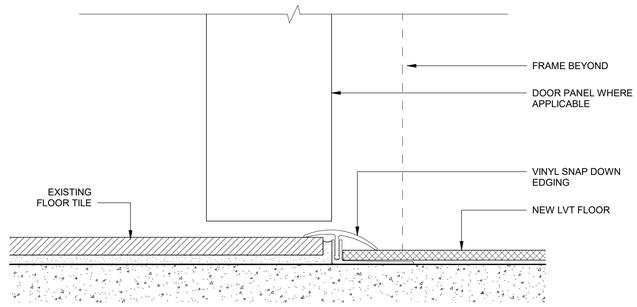
6 A621 FLOOR TRANSITION - EXISTING WOOD FLOORING TO NEW TILE
12" = 1'-0"



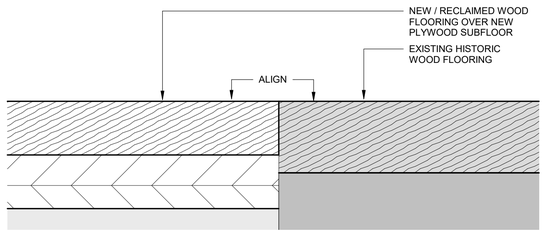
2 A621 FLOOR TRANSITION - EXISTING TILE FLOORING TO NEW TILE FLOORING
12" = 1'-0"



5 A621 FLOOR TRANSITION - EXISTING WOOD FLOORING TO NEW CARPET
12" = 1'-0"



1 A621 FLOOR TRANSITION - EXISTING TILE FLOORING TO NEW LVT
12" = 1'-0"



9 A621 FLOOR TRANSITION - EXISTING WOOD FLOORING TO NEW WOOD FLOOR AT STRUCTURAL INFILL
12" = 1'-0"

STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

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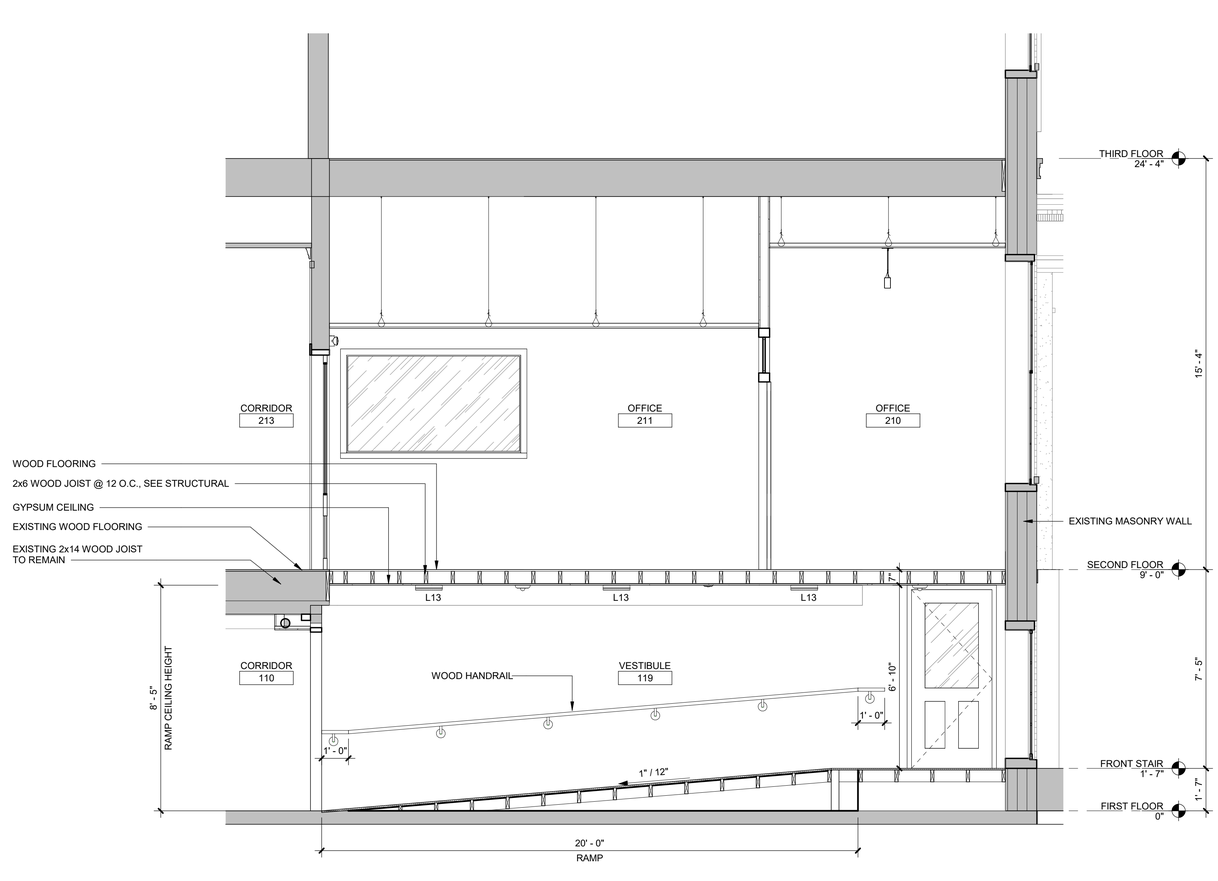
FLOOR TRANSITION AND BASE DETAILS

A621

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1 A201 A701 SECTION THRU RAMP
3/8" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

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VERTICAL CIRCULATION

A701

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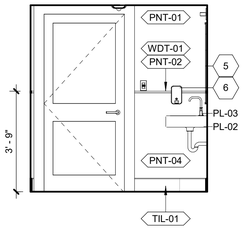
Autodesk Docs://St. George's Campus 2024/24025 - St.Georges - PORTEOUS R24.rvt

9 A801 A801 INTERIOR ELEVATION
RESTROOM 104C EAST
3/8" = 1'-0"

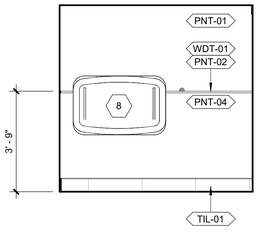
8 A801 A801 INTERIOR ELEVATION
RESTROOM 104C NORTH
3/8" = 1'-0"

7 A801 A801 INTERIOR ELEVATION
RESTROOM 104C WEST
3/8" = 1'-0"

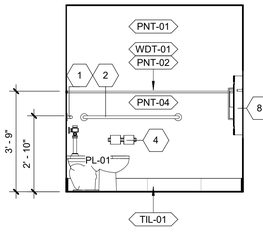
6 A801 A801 INTERIOR ELEVATION
RESTROOM 104C SOUTH
3/8" = 1'-0"



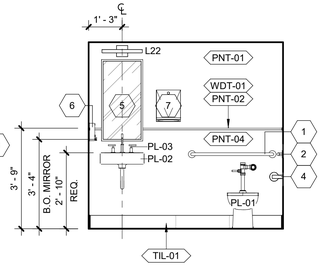
5 A801 A801 INTERIOR ELEVATION
ADA RESTROOM 104A SOUTH
3/8" = 1'-0"



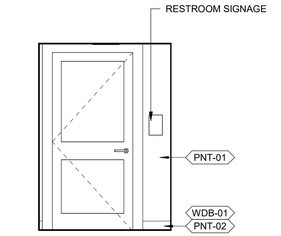
4 A801 A801 INTERIOR ELEVATION
ADA RESTROOM 104A WEST
3/8" = 1'-0"



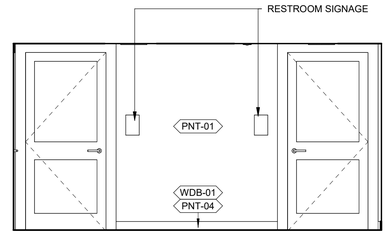
3 A801 A801 INTERIOR ELEVATION
ADA RESTROOM 104A SOUTH
3/8" = 1'-0"



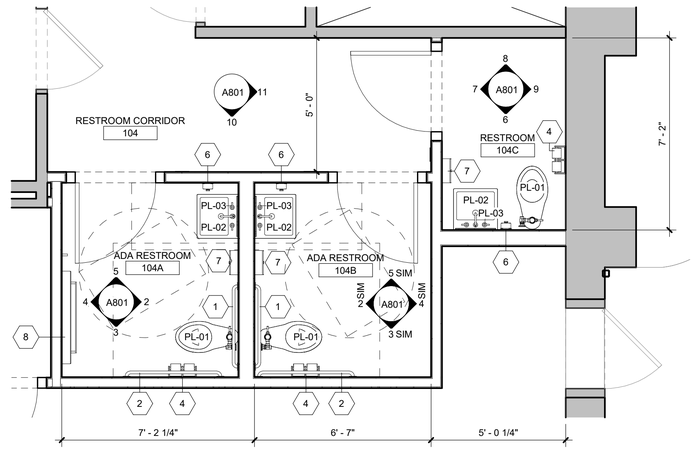
2 A801 A801 INTERIOR ELEVATION
ADA RESTROOM 104A EAST
3/8" = 1'-0"



11 A801 A801 INTERIOR ELEVATION
RESTROOM CORRIDOR 104 EAST
3/8" = 1'-0"



10 A801 A801 INTERIOR ELEVATION
RESTROOM CORRIDOR 104 SOUTH
3/8" = 1'-0"



1 A801 ENLARGED FIRST FLOOR PLAN - RESTROOM
3/8" = 1'-0"

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTAINING TO NEW WORK

1. DO NOT SCALE FROM DRAWINGS. USE DIMENSIONS AS SHOWN IN THE DOCUMENTS. IF A DIMENSION NEEDS TO BE VERIFIED, COORDINATE WITH ARCHITECT.

2. DIMENSIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM FACE OF FINISH WALL SURFACE, EXCLUDING THINSET TILE, TO THE FACE OF DOORS AND WINDOW OPENINGS, U.N.O. (UNLESS NOTED OTHERWISE).

3. ALL DIMENSIONS SHOWN AT EXISTING CONDITIONS ARE PLUS PR MINUS AND SHOULD BE VERIFIED, IF NECESSARY, ON THE PROJECT SITE.

4. THE CONTRACTOR SHALL BRING ALL DISCREPANCIES THAT MAY OCCUR IN THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CORRECTIVE WORK REQUIRED DUE TO PROCEEDING WITHOUT CLARIFICATION FROM THE ARCHITECT.

5. FOR ROOM FINISH SCHEDULE, REFER TO SHEET A600.

6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

8. WHERE INFILLING PORTIONS OF EXISTING PARTITIONS, CONFIRM EXISTING WALL DEPTH PRIOR TO INSTALLATION.

STANDARD ABBREVIATIONS

ACP	Acoustical Ceiling Panel
CPT	Carpet
CT	Countertop
EPB	Epoxy Base
EPX	Epoxy
ETR	Existing to Remain
FRP	Fiberglass Reinforced Plastic
GYP	Gypsum Board
LVT	Luxury Vinyl Tile
PAV	Pavers
PLAM	Plastic Laminate
PNT	Paint
RB	Rubber Base
TIL	Tile
WD	Wood
WDB	Wood Base
WDF	Wood Floor

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New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 24025

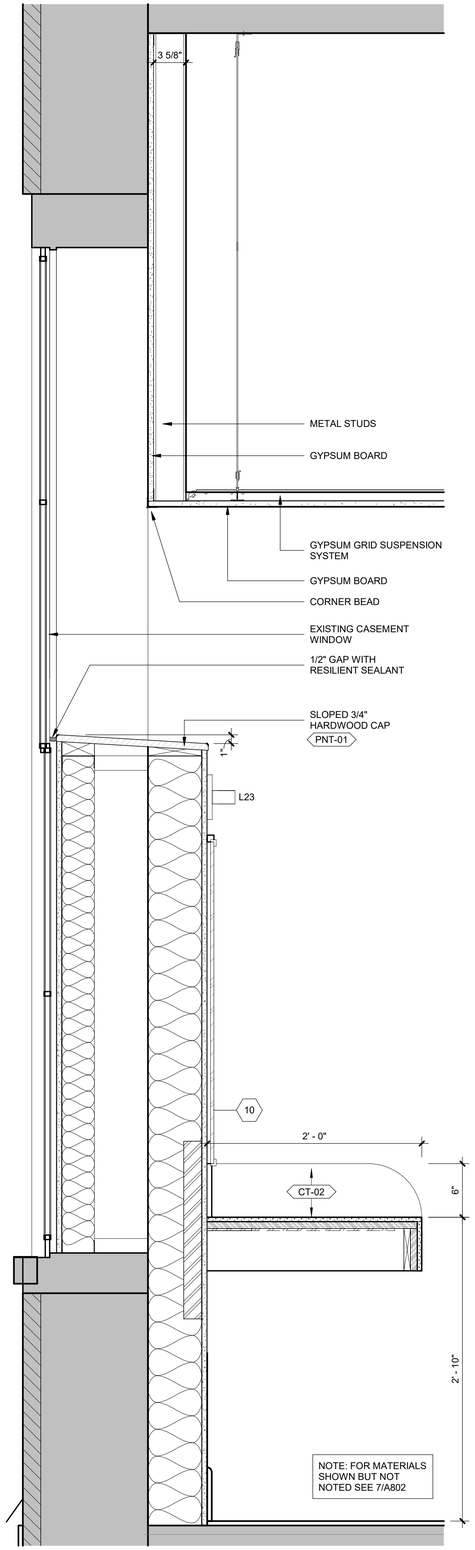
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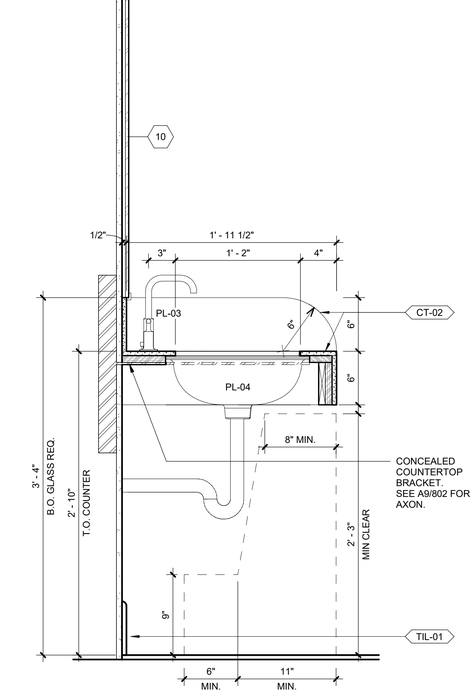
TOILET ROOMS FACULTY - FIRST FLOOR

A801

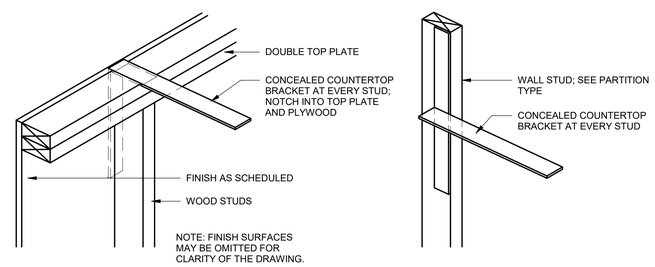
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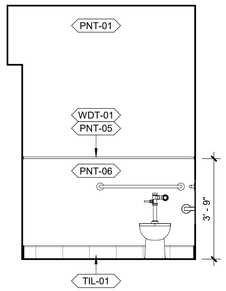
8 A802 A802 SECTION THRU VANITY AND WINDOW
1 1/2" = 1'-0"



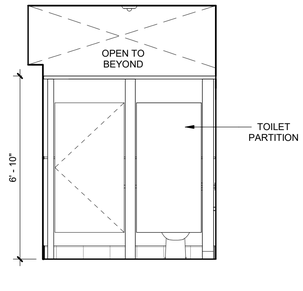
7 A802 A802 SECTION THRU VANITY
1 1/2" = 1'-0"



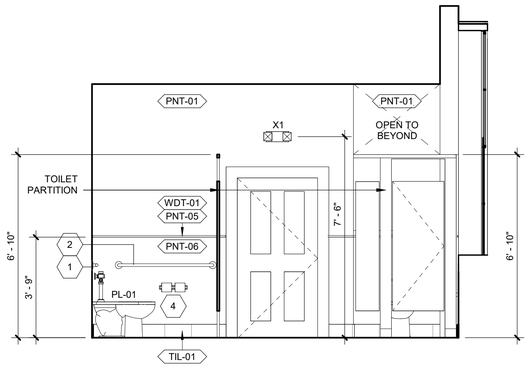
9 A802 AXONOMETRICS CONCEALED COUNTERTOP BRACKETS
1 1/2" = 1'-0"



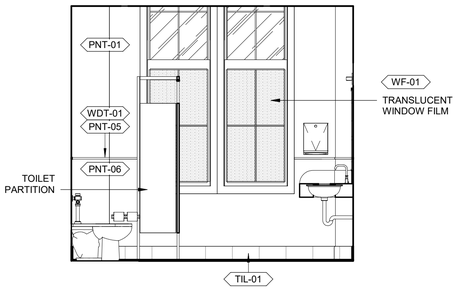
5 A802 A802 INTERIOR ELEVATION
TOILET ROOM GIRLS STALL 222 NORTH
3/8" = 1'-0"



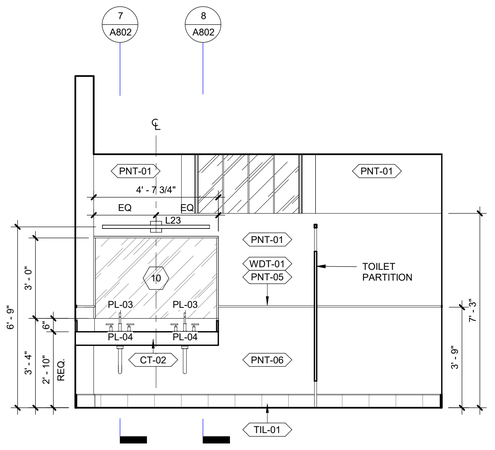
2 A802 A802 INTERIOR ELEVATION
TOILET ROOM GIRLS 222 NORTH
3/8" = 1'-0"



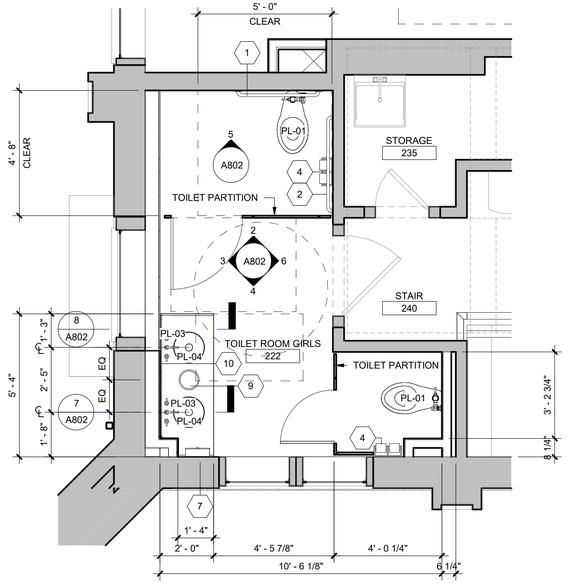
6 A802 A802 INTERIOR ELEVATION
TOILET ROOM GIRLS 222 EAST
3/8" = 1'-0"



4 A802 A802 INTERIOR ELEVATION
TOILET ROOM GIRLS 222 SOUTH
3/8" = 1'-0"



3 A802 A802 INTERIOR ELEVATION
TOILET ROOM GIRLS 222 WEST
3/8" = 1'-0"



1 A802 ENLARGED PLAN - TOILET ROOMS GIRLS - SECOND FLOOR
3/8" = 1'-0"

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STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

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1. DO NOT SCALE FROM DRAWINGS. USE DIMENSIONS AS SHOWN IN THE DOCUMENTS. IF A DIMENSION NEEDS TO BE VERIFIED, COORDINATE WITH ARCHITECT.

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6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

8. WHERE INFILLING PORTIONS OF EXISTING PARTITIONS, CONFIRM EXISTING WALL DEPTH PRIOR TO INSTALLATION.

STANDARD ABBREVIATIONS

ACP	Acoustical Ceiling Panel
CPT	Carpet
CT	Countertop
EPB	Epoxy Base
EPX	Epoxy
ETR	Existing to Remain
FRP	Fiberglass Reinforced Plastic
GYP	Gypsum Board
LVT	Luxury Vinyl Tile
PAV	Pavers
PLAM	Plastic Laminate
PNT	Paint
RB	Rubber Base
TIL	Tile
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WDB	Wood Base
WDF	Wood Floor

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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New Orleans, LA 70115

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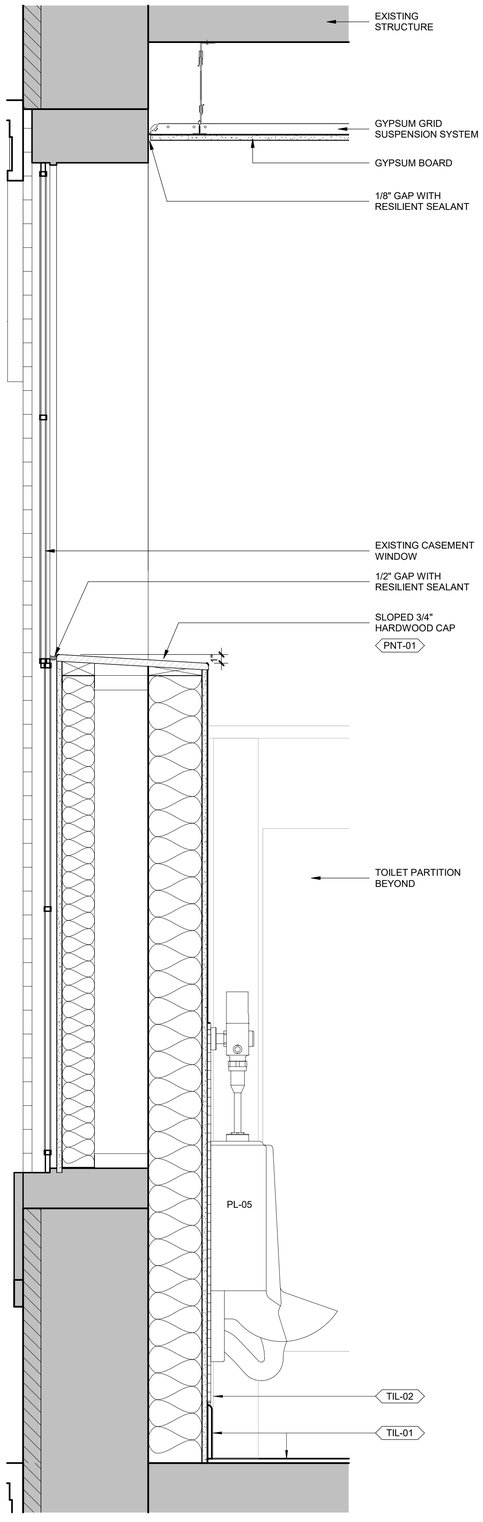
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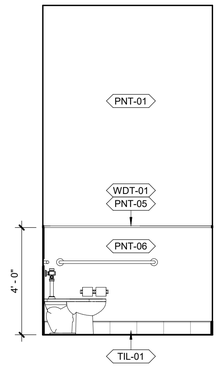
TOILET ROOMS GIRLS - SECOND FLOOR

A802

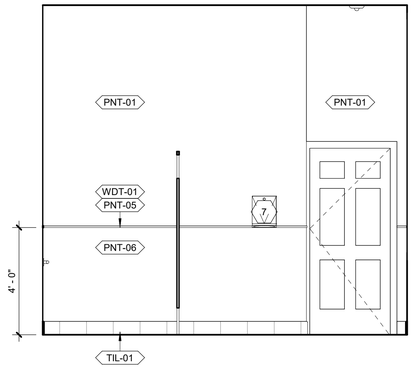
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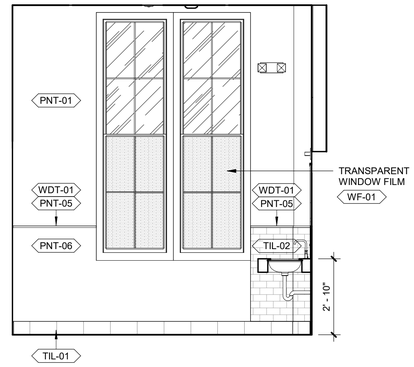
7 A803|A803 SECTION THRU URINAL WALL
1 1/2" = 1'-0"



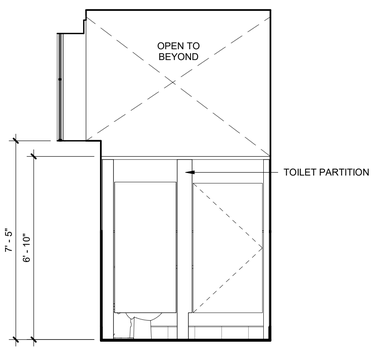
6 A803|A803 INTERIOR ELEVATION
TOILET ROOM BOYS STALL NORTH
3/8" = 1'-0"



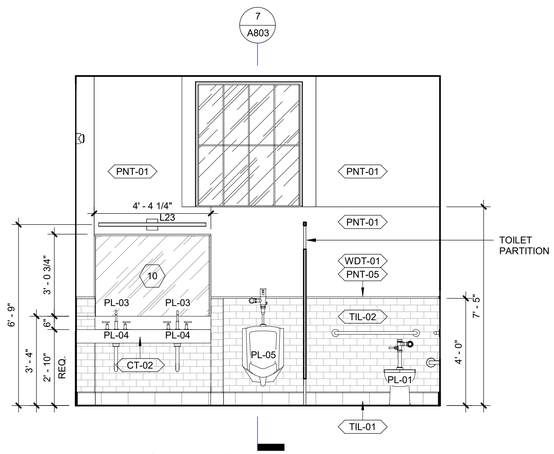
5 A803|A803 INTERIOR ELEVATION
TOILET ROOM BOYS EAST
3/8" = 1'-0"



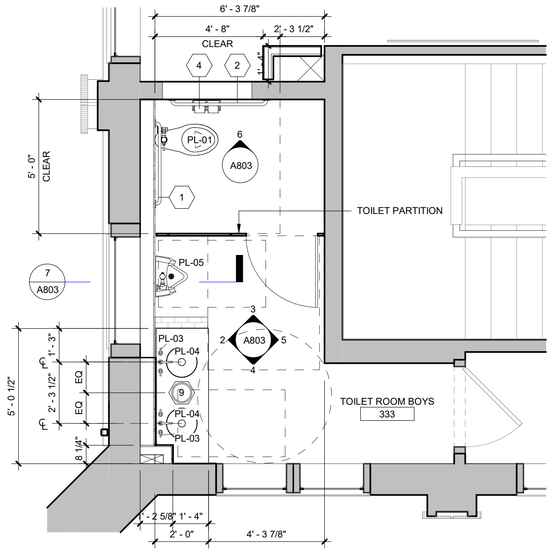
4 A803|A803 INTERIOR ELEVATION
TOILET ROOM BOYS 333 SOUTH
3/8" = 1'-0"



3 A803|A803 INTERIOR ELEVATION
TOILET ROOM BOYS 333 NORTH
3/8" = 1'-0"



2 A803|A803 INTERIOR ELEVATION
TOILET ROOM BOYS 333 WEST
3/8" = 1'-0"



1 A803 ENLARGED PLAN - TOILET ROOM BOYS - THIRD FLOOR
3/8" = 1'-0"

GRAPHIC RENOVATION LEGEND

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8. WHERE INFILLING PORTIONS OF EXISTING PARTITIONS, CONFIRM EXISTING WALL DEPTH PRIOR TO INSTALLATION.

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EPB	Epoxy Base
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PAV	Pavers
PLAM	Plastic Laminate
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WDB	Wood Base
WDF	Wood Floor

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TOILET ROOMS BOYS - THIRD FLOOR

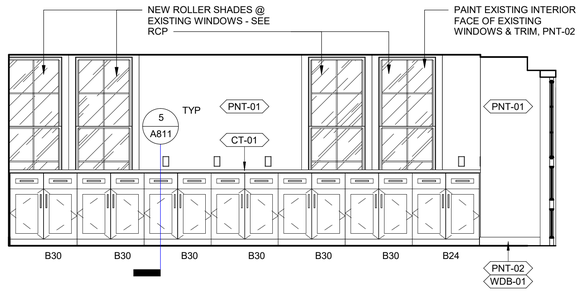
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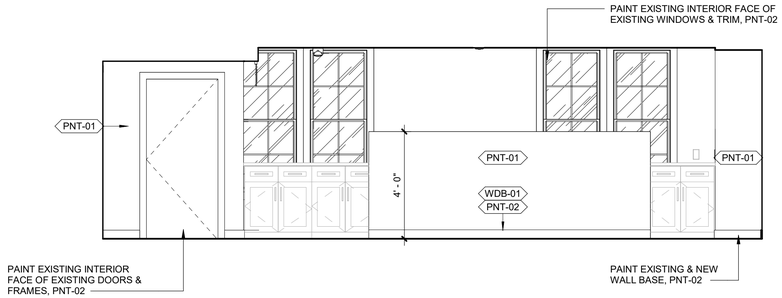
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APPLIANCE SCHEDULE

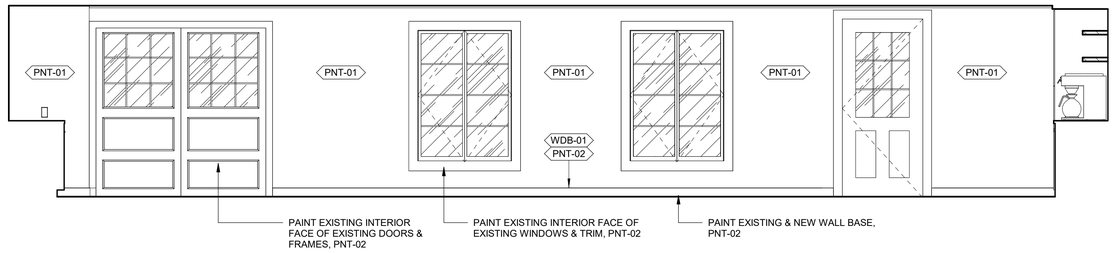
ITEM NO.	DESCRIPTION	MANUFACTURER	MODEL	FINISH / MATERIAL	COMMENTS
A	REFRIGERATOR	LG	LRDCS2603	STAINLESS STEEL	
B	DISHWASHER	BOSCH	SHE53C85N	STAINLESS STEEL	
D	COUNTERTOP MICROWAVE	LG	MSER0990S	STAINLESS STEEL	
E	UNDERCOUNTER WATER FILTER	BRIO	UF100FWHT	WHITE	TANKLESS ULTRAFILTRATION SYSTEM WITH FAUCET
F	COFFEE BREWER	-	-	-	OWNER PROVIDED



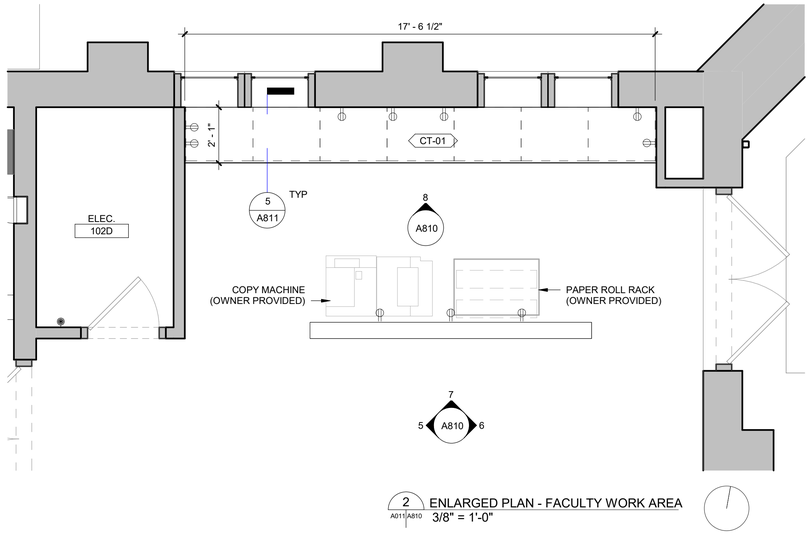
8 A810 A810 INTERIOR ELEVATION FACULTY WORKROOM 102 NORTH
3/8" = 1'-0"



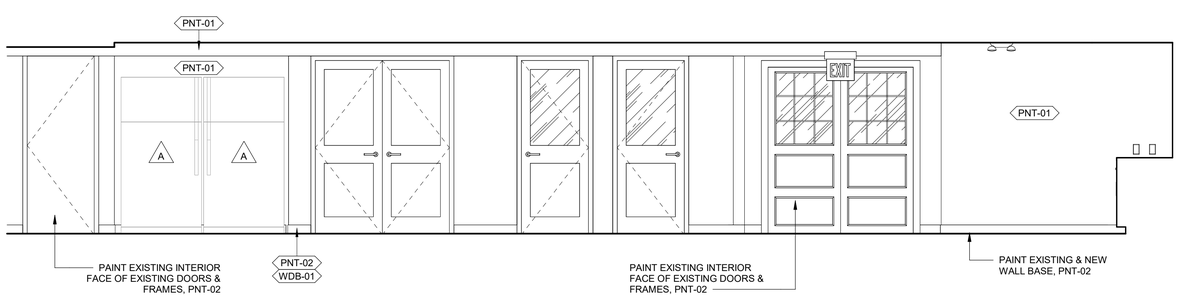
7 A810 A810 NORTH INTERIOR ELEVATION FACULTY WORKROOM
3/8" = 1'-0"



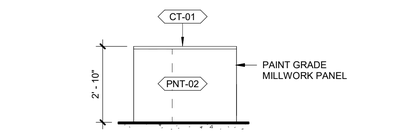
6 A810 A810 EAST INTERIOR ELEVATION FACULTY WORKROOM
3/8" = 1'-0"



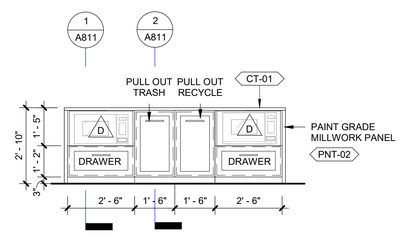
2 A811 A810 ENLARGED PLAN - FACULTY WORK AREA
3/8" = 1'-0"



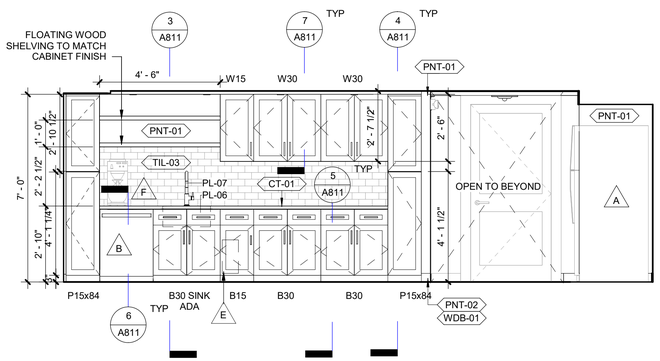
5 A810 A810 WEST INTERIOR ELEVATION FACULTY WORKROOM
3/8" = 1'-0"



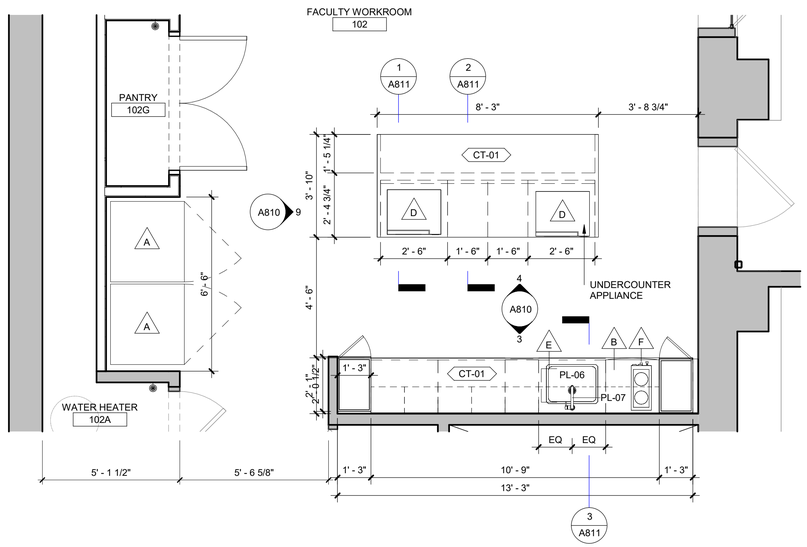
9 A201 A810 INTERIOR ELEVATION KITCHENETTE ISLAND SIDE
3/8" = 1'-0"



4 A810 A810 INTERIOR ELEVATION KITCHENETTE ISLAND FRONT
3/8" = 1'-0"



3 A810 A810 INTERIOR ELEVATION KITCHENETTE
3/8" = 1'-0"



1 A810 ENLARGED PLAN - KITCHENETTE

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

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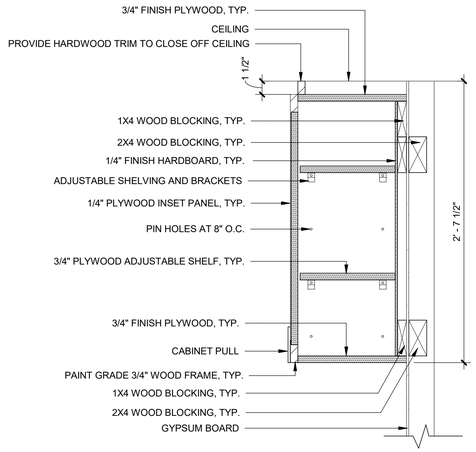
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CONSTRUCTION DOCUMENTS
REVISIONS

ENLARGED PLAN & ELEVATIONS - FIRST FLOOR FACULTY LOUNGE

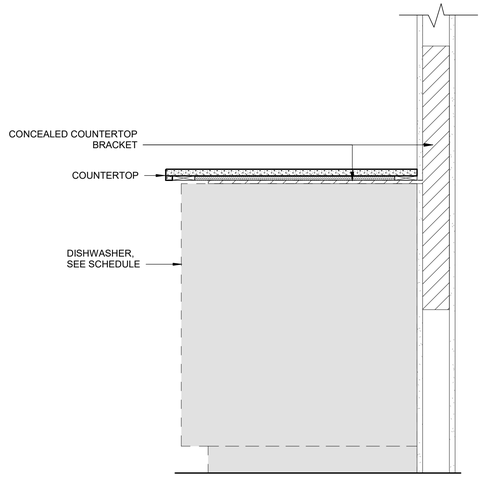
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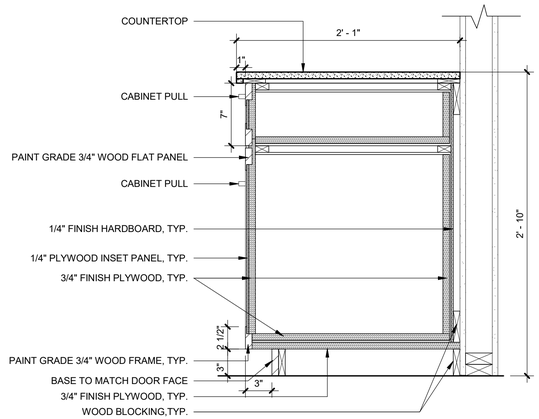
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7 A810|A811 TYPICAL SECTION AT UPPER CABINET
1 1/2" = 1'-0"



6 A810|A811 TYPICAL SECTION AT DISHWASHER SUPPORT
1 1/2" = 1'-0"

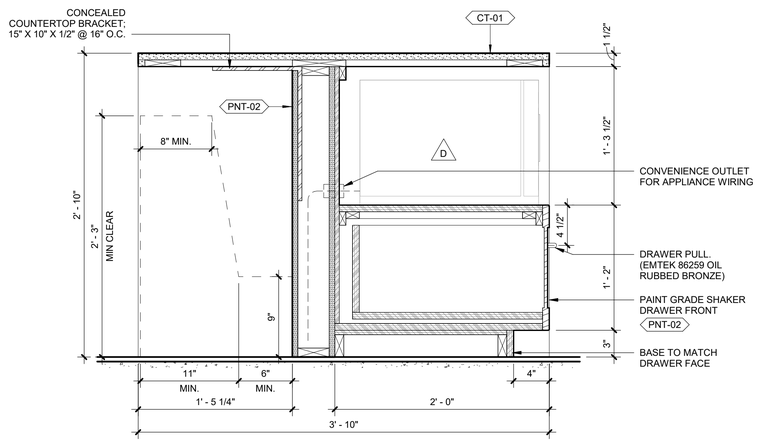


5 A810|A811 TYPICAL SECTION AT BASE CABINET WITH DRAWER
1 1/2" = 1'-0"

4 A810|A811 TYPICAL SECTION AT TALL CABINET
1 1/2" = 1'-0"

3 A810|A811 SECTION THRU KITCHENETTE CABINET AT SINK
1 1/2" = 1'-0"

2 A810|A811 SECTION THRU KITCHENETTE ISLAND - PULL OUT TRASH
1 1/2" = 1'-0"



1 A810|A811 SECTION THRU KITCHENETTE ISLAND
1 1/2" = 1'-0"

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ACP	Acoustical Ceiling Panel
CPT	Carpet
CT	Countertop
EPB	Epoxy Base
EPX	Epoxy
ETR	Existing to Remain
FRP	Fiberglass Reinforced Plastic
GYP	Gypsum Board
LVT	Luxury Vinyl Tile
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PLAM	Plastic Laminate
PNT	Paint
RB	Rubber Base
TIL	Tile
WD	Wood
WDB	Wood Base
WDF	Wood Floor

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 24025

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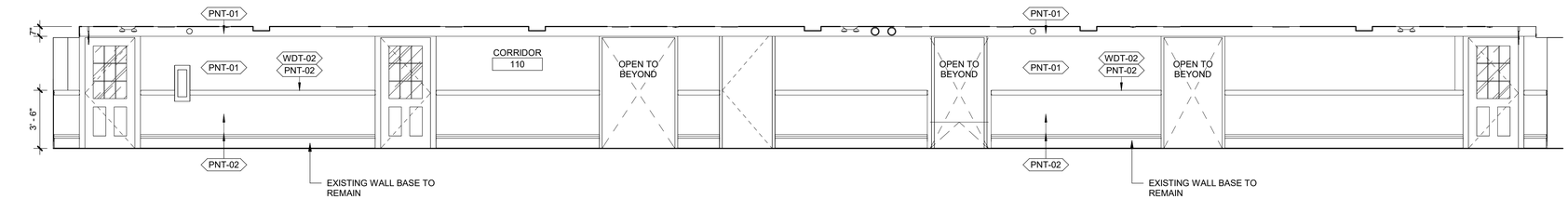
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CONSTRUCTION DOCUMENTS
REVISIONS

MILLWORK - FACULTY LOUNGE

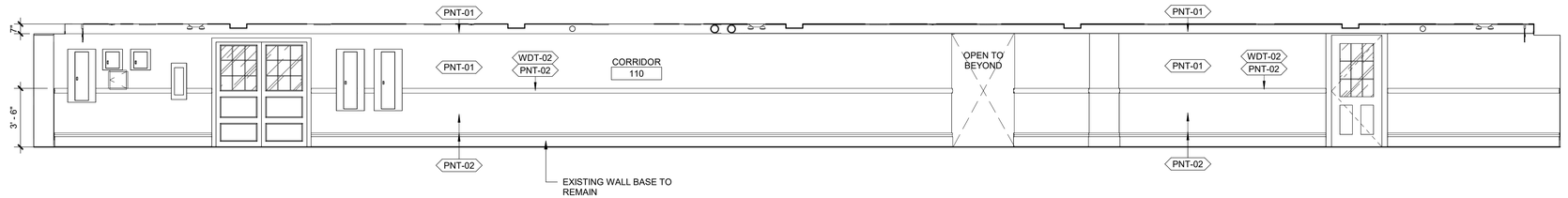
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2 A201|A812 INTERIOR ELEVATION - CORRIDOR 110 WEST
1/4" = 1'-0"



1 A201|A812 INTERIOR ELEVATION - CORRIDOR 110 EAST
1/4" = 1'-0"

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

GRAPHIC RENOVATION LEGEND

- EXISTING WALLS TO REMAIN
- NEW WALLS
- EXISTING ELEMENTS TO BE DEMOLISHED
- PORTION OF AREA TO BE DEMOLISHED

GENERAL NOTES PERTANING TO NEW WORK

1. DO NOT SCALE FROM DRAWINGS. USE DIMENSIONS AS SHOWN IN THE DOCUMENTS. IF A DIMENSION NEEDS TO BE VERIFIED, COORDINATE WITH ARCHITECT.

2. DIMENSIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM FACE OF FINISH WALL SURFACE, EXCLUDING THINSET TILE, TO THE FACE OF DOORS AND WINDOW OPENINGS, U.N.O. (UNLESS NOTED OTHERWISE).

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4. THE CONTRACTOR SHALL BRING ALL DISCREPANCIES THAT MAY OCCUR IN THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CORRECTIVE WORK REQUIRED DUE TO PROCEEDING WITHOUT CLARIFICATION FROM THE ARCHITECT.

5. FOR ROOM FINISH SCHEDULE, REFER TO SHEET A600.

6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

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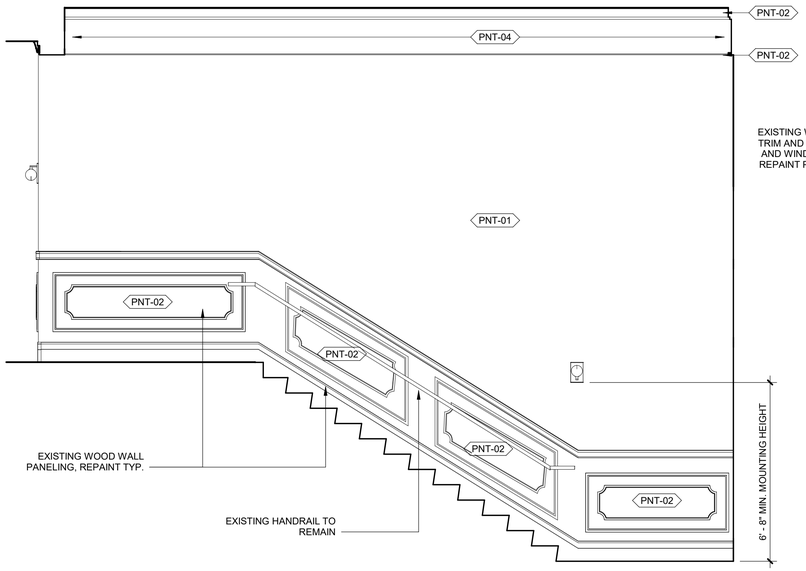
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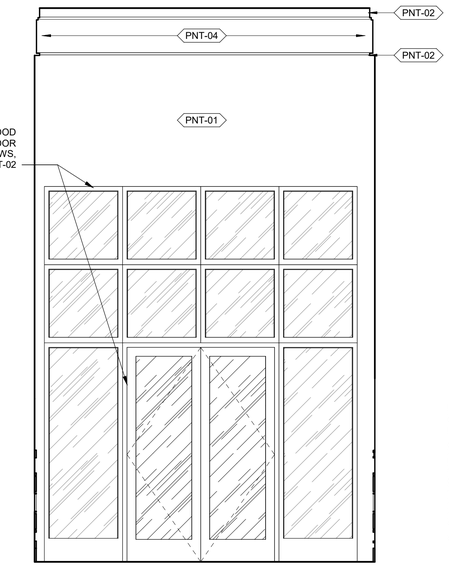
INTERIOR ELEVATIONS - FIRST FLOOR

A812

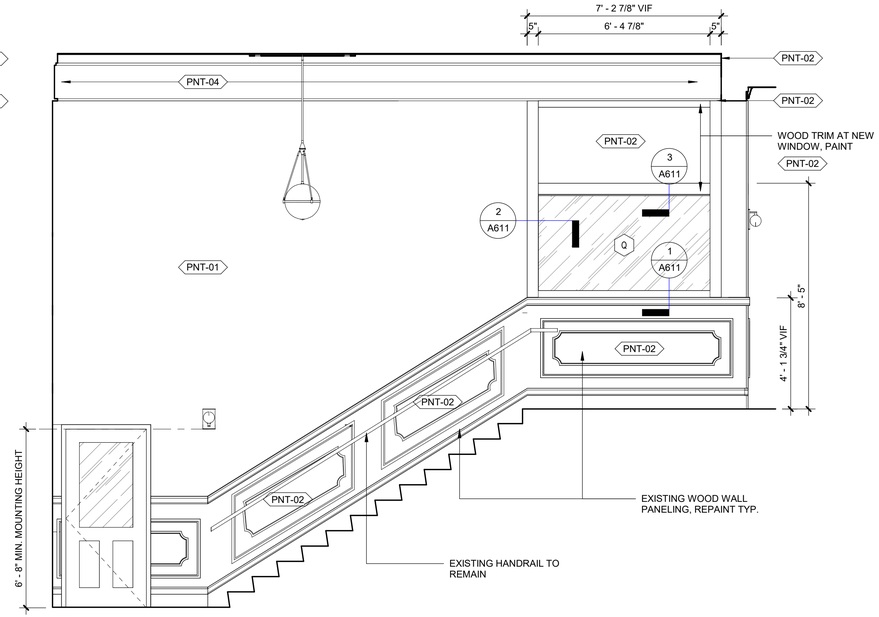
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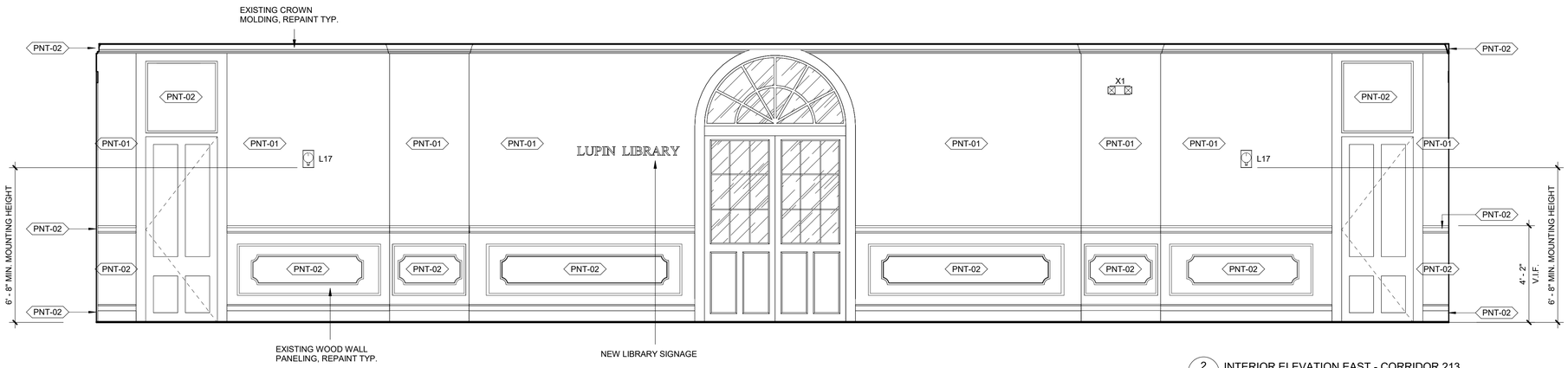
4 A201 A820 INTERIOR ELEVATION SOUTH - STAIR & CORRIDOR 213
3/8" = 1'-0"



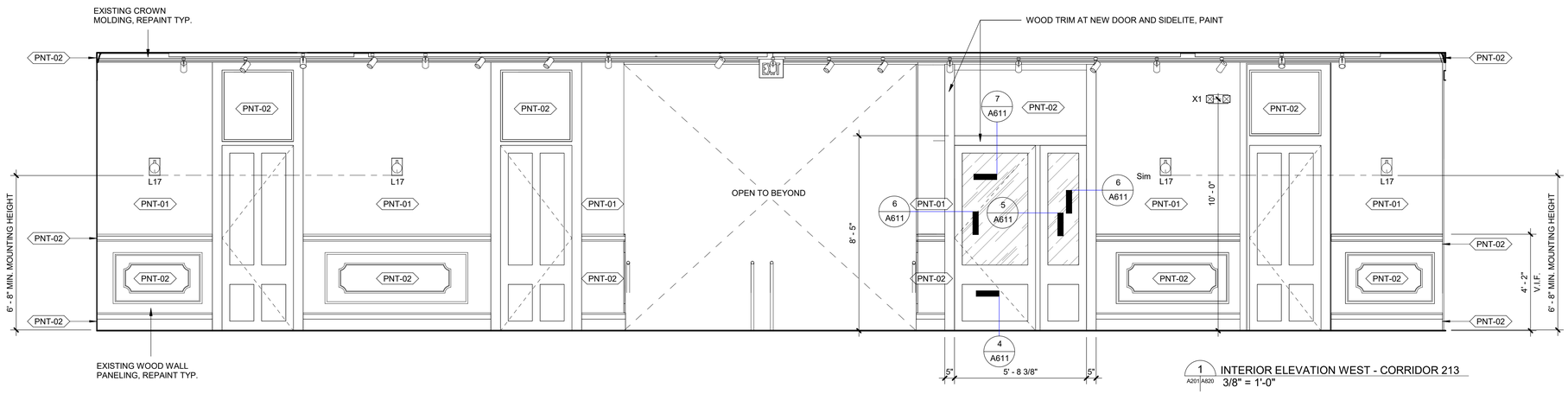
5 A201 A820 INTERIOR ELEVATION WEST - STAIR & CORRIDOR 213
3/8" = 1'-0"



3 A201 A820 INTERIOR ELEVATION NORTH - STAIR & CORRIDOR 213
3/8" = 1'-0"



2 A201 A820 INTERIOR ELEVATION EAST - CORRIDOR 213
3/8" = 1'-0"



1 A201 A820 INTERIOR ELEVATION WEST - CORRIDOR 213
3/8" = 1'-0"

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6. FOR FRAME AND DOOR SCHEDULE, REFER TO SHEET A603.

7. FOR CLARIFICATION OF REFERENCE DESIGNATION FOR INTERIOR PARTITIONS, REFER TO SHEET A604.

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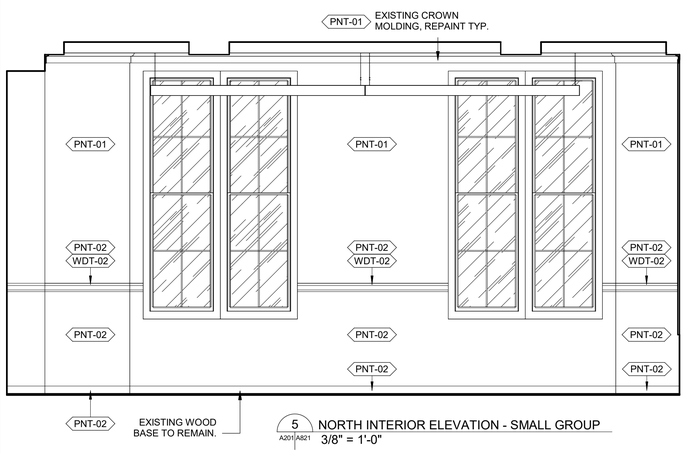
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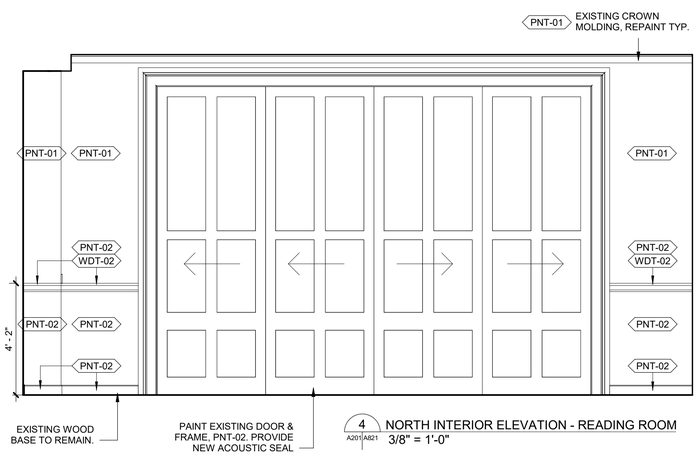
INTERIOR ELEVATIONS - SECOND FLOOR

A820

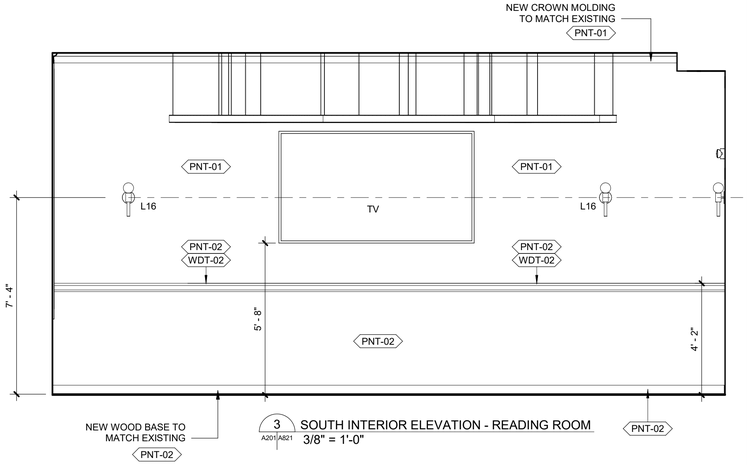
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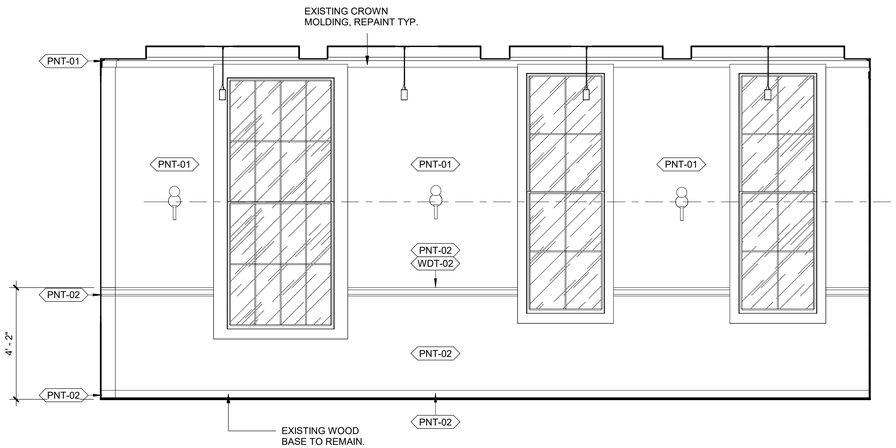
5 A201 A821 NORTH INTERIOR ELEVATION - SMALL GROUP
3/8" = 1'-0"

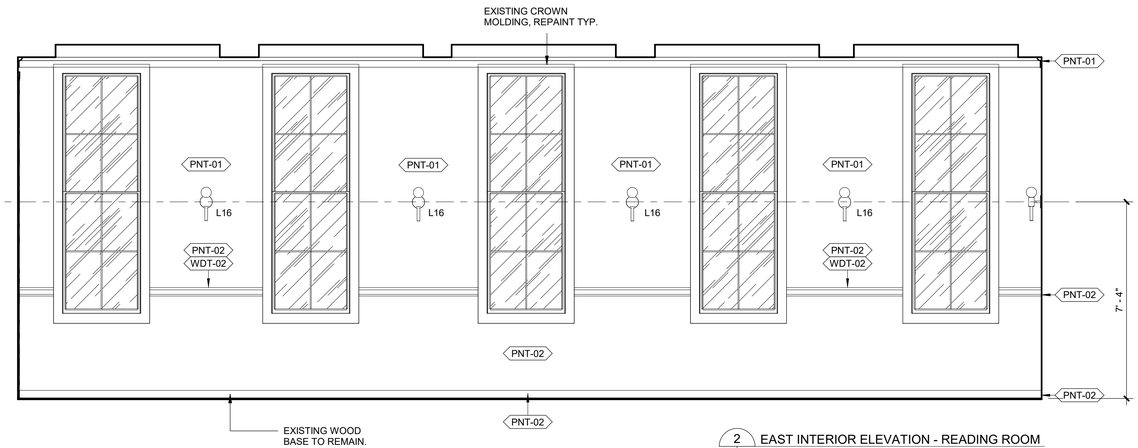


4 A201 A821 NORTH INTERIOR ELEVATION - READING ROOM
3/8" = 1'-0"

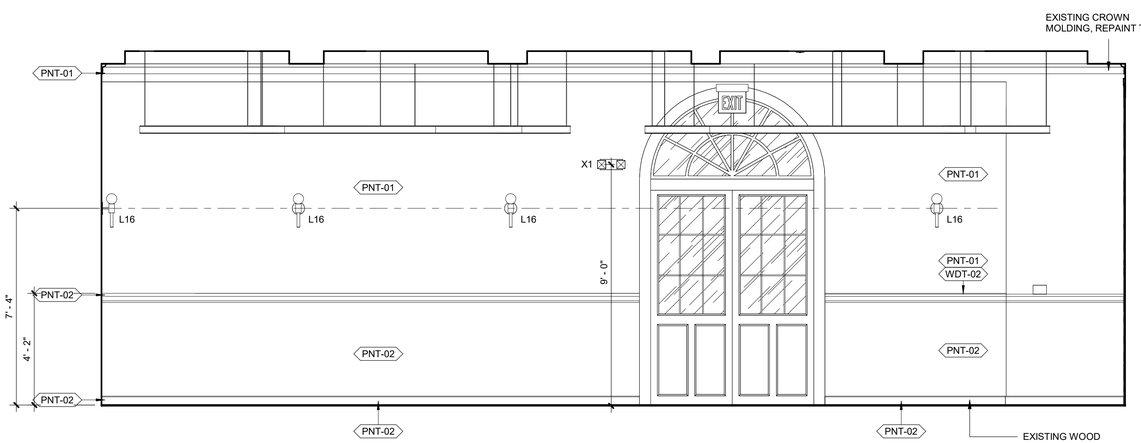


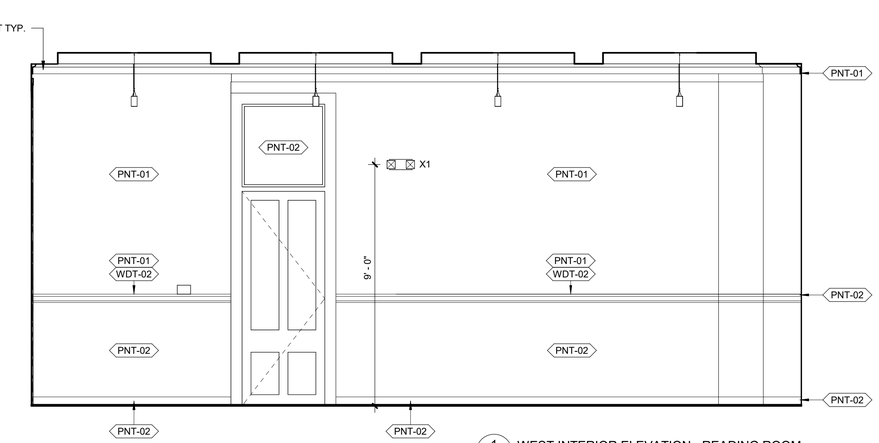
3 A201 A821 SOUTH INTERIOR ELEVATION - READING ROOM
3/8" = 1'-0"





2 A201 A821 EAST INTERIOR ELEVATION - READING ROOM
3/8" = 1'-0"





1 A201 A821 WEST INTERIOR ELEVATION - READING ROOM
3/8" = 1'-0"

STUDIOWEST
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STUDIO WEST PROJECT NO. | 24025

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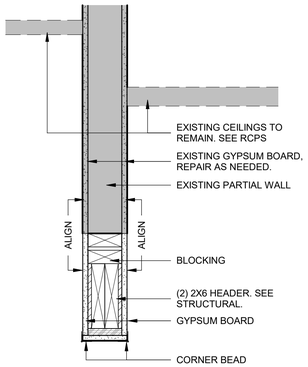
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INTERIOR ELEVATIONS - SECOND FLOOR LIBRARY

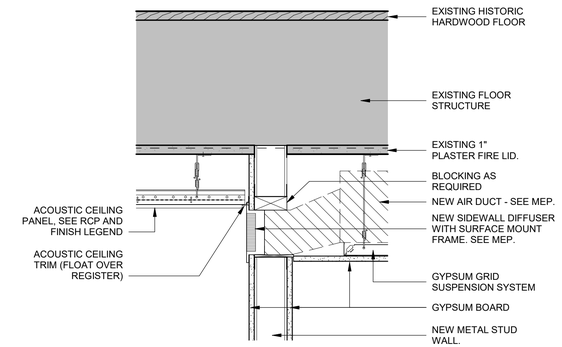
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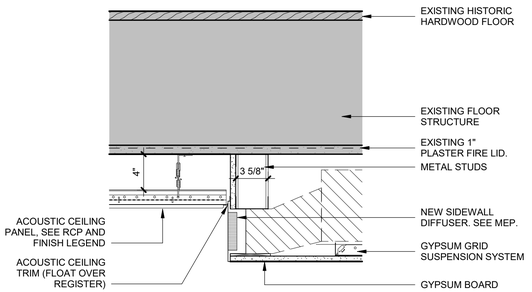
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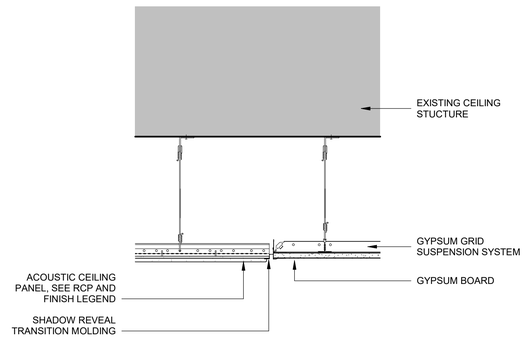
11 A212 A850 CEILING DETAIL - SECTION THRU NEW HEADER ON THIRD FLOOR
1 1/2" = 1'-0"



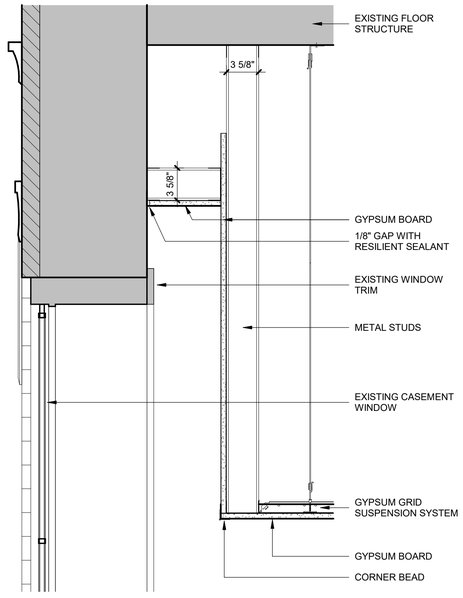
6 A211 A850 CEILING DETAIL - SECTION THRU SIDE WALL DIFFUSER
1 1/2" = 1'-0"



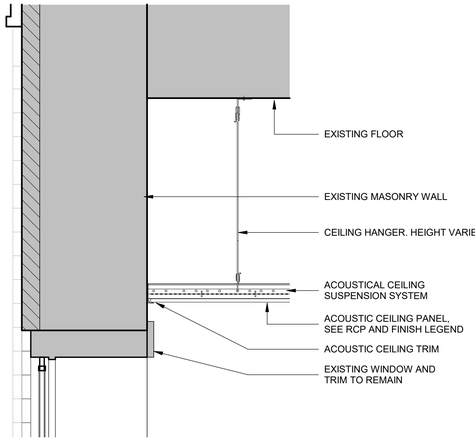
3 A211 A850 CEILING DETAIL - NEW ACP TO NEW GYP SOFFIT
1 1/2" = 1'-0"



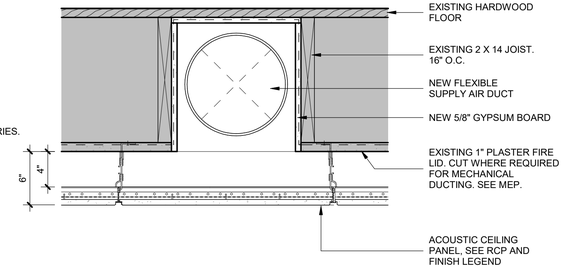
10 A302 A850 CEILING DETAIL - NEW ACP TO NEW GYP CEILING
1 1/2" = 1'-0"



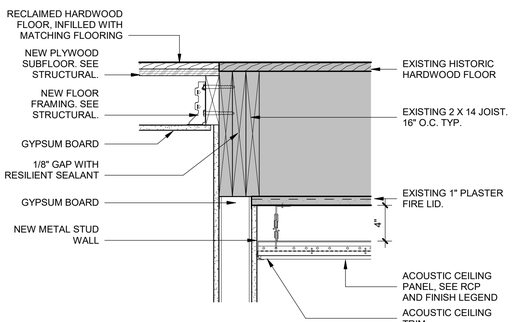
8 A301 A850 CEILING DETAIL - SECTION THRU GIRL'S RESTROOM SOFFIT
1 1/2" = 1'-0"



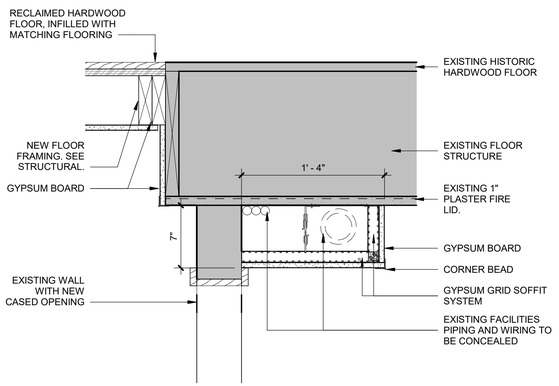
5 A212 A850 SECTION THRU OFFICE - NEW ACP TO EXISTING WALL
1 1/2" = 1'-0"



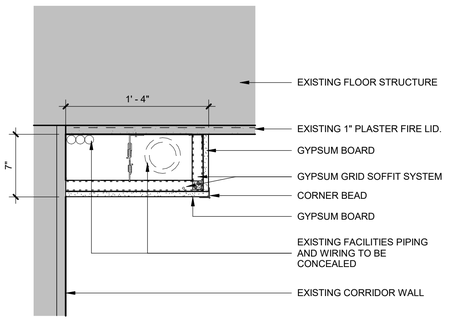
2 A211 A850 CEILING DETAIL - SECTION THRU FIRE LID AT HVAC DUCT BETWEEN JOISTS
1 1/2" = 1'-0"



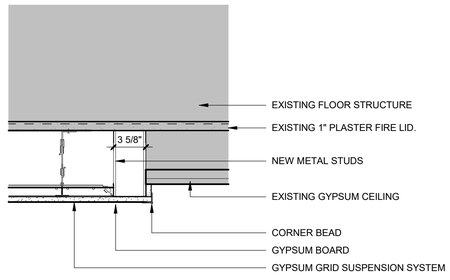
9 A211 A850 CEILING DETAIL - SECTION THRU NEW FLOOR FRAMING
1 1/2" = 1'-0"



7 A211 A850 SECTION THRU NEW RAMP CEILING
1 1/2" = 1'-0"



4 A211 A850 CEILING DETAIL - LEVEL 1 CORRIDOR CEILING
1 1/2" = 1'-0"



1 A211 A850 CEILING DETAIL - NEW GYP CEILING TO EXISTING GYP CEILING
1 1/2" = 1'-0"

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REFER TO RCP FOR ALL CEILING HEIGHTS

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CEILING DETAILS

A850

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GENERAL STRUCTURAL NOTES

I. GENERAL

1. The contractor shall ensure that no construction load exceeds the design live loads indicated on the structural drawings and that these loads are not put on the structural members prior to the time that all framing members and their connections are in place.
2. The contractor shall be responsible for the design, placement, maintenance, etc. of any and all shoring, bracing, tie backs, etc. needed to support any part of the new or existing construction during the entire construction process to ensure the safety and integrity of the structure until the necessary permanent elements are in place.
3. See architectural, mechanical, and electrical drawings for exact location of all depressions, slopes, openings, penetrations, etc. Penetrations not shown on the structural drawings shall be brought to the attention of the structural engineer.
4. Dimensions - Use written dimensions only. Do not scale from this drawing.
5. The structural drawings shall govern the work for all structural features, unless noted otherwise. The architectural drawings shall govern the work for all dimensions.
6. Structural drawings are intended to be used with architectural, mechanical, and electrical drawings. See these drawings for exact location of all depressions, slopes, openings, penetrations, etc. Penetrations not shown on the structural drawings shall be brought to the attention of the structural engineer. Contractor is responsible for coordinating such requirements into their shop drawings and work.
7. No change in size or dimension of structural members shall be made without the written approval of the professional of record.
8. Weights of mechanical equipment shown on the structural plans are for units specified by the Mechanical Engineer. Contractor shall verify weights and any substitutions that result in increased weight shall be approved by the Structural Engineer of Record.
9. Omissions & Conflicts - Omissions or conflicts between various elements of the construction documents should be brought to the attention of the design team.
10. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.
11. In case of conflict between the General Notes and Specifications and details, the most stringent requirements shall govern.
12. Existing Conditions - The Contractor shall verify the existing conditions and dimensions in the field prior to fabrication/erection. The Contractor shall report any discrepancies between the drawings and the actual existing conditions and dimensions to the Engineer.
    a. If the existing field conditions do not permit the installation of the work in accordance with the details shown, the Contractor shall notify the Architect/Engineer immediately and provide a sketch of the condition with his proposed modification of the details given on the Contract Documents. Do not commence work until condition is resolved and modification is approved by the Architect.
    b. Verify the location of all existing utilities before commencing any work. Any interference shall be brought to the attention of the Structural Engineer.
    c. Where alterations involve the existing supporting structure, the Contractor shall provide shoring and protection required to ensure the structural integrity of the existing structure.
    d. With the exception of defects discovered by us or pointed out to us by others to date, our design and the work shown here assumes that the existing structural elements are sound and capable of supporting loads to their full, theoretical, code-allowed capacities. EOR is not responsible for any additional costs, damages, or injuries resulting from discovery or failure of any element that is found to be damaged, deteriorated, or otherwise structurally impaired.
13. If any items herein are not understandable or clear as to intent, the contractor must notify the Engineer of Record for clarification and/or supplemental information prior to actual installation.
14. The contractor shall inform the professional of record in writing of any deviation from the contract documents. The contractor shall not be relieved of the responsibility of such deviation by the professional of record review of shop drawings, product data, etc., unless the contractor has specifically informed the professional of record of such deviation at the time of submission, and the professional of record has given written approval to the specific deviation.
15. All columns shall be centered on grid lines unless noted otherwise.
16. All column footings and pile caps shall be centered on columns unless noted otherwise.

II. DESIGN BASIS

A. Applicable Codes and Standards
    1. International Building Code 2021
B. Design Live Loads
    1. Roof - 20 psf
    2. Floors - 60 psf
    3. Assembly Areas - 100 psf

III. MATERIALS

A. CONCRETE
1. Concrete shall be designed and detailed in accordance with the Building Code Requirements for Structural Concrete (ACI 318 latest edition), and constructed in accordance with the CRSI Manual of Standard Practice and ACI 301.
2. All concrete shall have a minimum 28-day compressive strength of 4,000 psi.
3. All concrete shall be normal weight concrete (144 pcf +) with all cement conforming to ASTM C150, Type I. Maximum aggregate size shall be 1-1/2 inches for footings and 3/4" for walls and slabs, conforming to ASTM C33 unless noted otherwise.
4. Submit to Architect/Engineer reinforcing steel shop drawings for approval and mix designs for review prior to placing any concrete.
5. Arrangement and bending of reinforcing steel shall be in accordance with ACI 315 Detailing Manual, latest edition.
6. Reinforcing steel shall be new and all bars shall be deformed and shall conform in ASTM 615 Grade 60.
7. Unless noted otherwise, bar laps shall be Class B tension laps and shall be lapped with minimum lengths as listed in the schedule, where splices are required in reinforcing.
8. Corner bars shall be provided for all horizontal reinforcing bars at the intersections and corners of all strip footings, beams, and walls unless noted otherwise. Corner bars shall be of the same size and grade as the horizontal reinforcing they connect. See Typical Details for more information.
9. Provide suitable wire spacers, chairs, ties, brickettes etc. for supporting reinforcing steel in the proper position while placing concrete. Do not "wet stick" dowels.
10. Typical minimum concrete protective covering for reinforcement shall be 1-1/2"; minimum cover shall be 2" on surfaces in contact with the earth and 3" at earth-formed surfaces.
11. All welded wire fabric shall conform to ASTM A-185 and shall be lapped a minimum of (2) wire spaces.
12. Provide minimum 10 mil vapor barrier below all concrete at grade level. Vapor barrier shall be continuous with 12" lap to accommodate pouring direction. Barrier shall only be cut at pile locations.
13. Bonding agent shall be used where new concrete is placed against existing concrete.
14. Chamfer all exposed concrete corners unless noted otherwise on Architectural Drawings.
15. Where existing concrete at the first floor level is removed to install new utilities, etc., the contractor shall notify the structural engineer of the location and extent of any such removal prior to performing the work. Where possible, existing reinforcement shall not be cut, bent, or damaged. Whenever reinforcement is cut, damaged or bent, it shall be brought to the attention of the structural engineer and repaired or replaced as directed.
16. Material used for filling voids under concrete shall be extruded polystyrene insulation board in accordance with ASTM D6817 having a nominal minimum 0.9pcf and compressive strength of 3.6psi @ 1%. Basis of design: EPS15 with termiticide.
17. The concrete slabs shall be finished flat and level within tolerance, to the elevation indicated on the drawings. The Contractor shall provide the means by which the maximum and minimum concrete slab thickness can be monitored and verified during and after the placing and finishing operations. See Specifications for floor levelness requirements.
18. Early drying out of concrete, especially during the first 24 hours, shall be carefully guarded against. All surfaces shall be moist cured or protected using a membrane curing agent applied as soon as forms are removed. If membrane curing agent is used, exercise care not to damage coating.
19. Cold weather concreting shall be in accordance with ACI-306. Hot weather concreting shall be in accordance with ACI-305R.
20. Throughout construction, the concrete work shall be adequately protected against damage due to excessive loading, construction equipment, materials or methods, ice, rain, snow, excessive heat, and freezing temperatures.
21. The Contractor shall prepare one (1) set of (3) concrete prisms for testing at 7 days and one (1) set for testing at 28 days and retain (1) set for reserve. Tests are to be conducted by the Contractor's Inspection and Testing Agency for each 100 cy of concrete placed but not less than (1) set per day of concrete placement.
22. Prepare concrete test cylinders from each day's pour. Cylinders shall be properly cured and stored. Sample fresh concrete in accordance with ASTM C172.
23. Retain laboratory to provide testing service. Slump per ASTM C143, air content per ASTM C231, cylinder tests per ASTM C39.
24. EOR may erform periodic, visual inspection of the concrete reinforcement placement prior to pouring.
25. Visual inspection by the EOR does not guarantee the Contractor's work or alleviate the Contractor from final responsibility to place reinforcement and concrete in accordance with the Contract Drawings and Specifications.
26. Locations and sizes of openings, sleeves, etc. required for other trades must be verified by these trades before placing concrete.
27. All slots, sleeves, trenches, and other embedded items shall be set and secured against movement before the concrete is placed. See Architectural, Electrical, Mechanical, Plumbing, and Vendor drawings for sizes and locations.
28. As part of the submittal process, the Electrical and Mechanical Contractor(s) shall submit a proposed routing plan for all pipes, conduits, or other devices to be embedded in the concrete. The submittal shall show specific sizes and locations of all proposed embed items referencing proximity to beam, column, and slab edges.
29. Conduits and pipes embedded in concrete slabs may be no larger than 1/3 of the slab thickness (based on the maximum outside diameter) and shall have a center-to-center spacing no less than three (3) conduit diameters. Regardless of diameter, the minimum clear spacing between conduits or reinforcing shall be one (1) inch.
30. No aluminum conduits, devices, or fixtures may be embedded into the concrete so that the aluminum is in direct contact with the concrete.
31. No conduits shall be placed in slabs within 12 inches of column face or face of bearing wall.
32. Waterstops shall be Waterstop-RX Volclay waterproofing by American Colloid Company or approved equal unless noted otherwise.
33. Expansion Joint Filler shall be non-extruded premolded material composed of fiberboard impregnated with asphalt conforming to the requirements of ASTM D1751 unless noted otherwise.

B. SOIL-SUPPORTED FOUNDATIONS
1. Foundation design is based on an allowable soil bearing capacity of 750 psf.
2. All soil preparation shall be in accordance with the recommendations given in the referenced Geotechnical Report, as applicable.
3. Strip area of all gravel, surface vegetation, topsoil, and any debris. Remove all existing structures, foundations, and below grade site features.
4. Place footings on undisturbed soil or engineered fill. Notify the Engineer if"soft spots", underground obstructions, or any unusual condition is encountered during stripping, excavation or filling.
5. A 10-mil minimum polyethylene film vapor retarder, meeting the requirements in the specifications, shall be placed below all slabs-on-grade, unless noted otherwise. Lap 12" to accommodate pouring direction.
6. The Independent Testing Agency engaged by the Owner may be present during proof rolling and shall inspect the sub grade prior to any fill operations if required by the Specifications.
7. Where fill material is required over in-situ sub grade, scarify sub grade to a minimum depth of 6" and adjust moisture content to equal optimum moisture content, or as required by geotechnical report. Compact scarified sub grade using the same requirements listed below for compacted structural fill, as applicable.
8. Structural fill shall be defined as a select granular material (such as locally available river sand) and comply with requirements stated in the Geotechnical Report. At a minimum, sand fill (AASHTO A-3) should be non-plastic (maximum liquid limit = 45%, maximum plastic index = 25) and free of roots, clay lumps, and other deleterious materials with no more than 10% by weight passing a U.S. Standard No. 200 mesh sieve. The maximum organic content shall not exceed 5% by weight. Prior to transporting structural fill to the site, a sample should be testing to verify its conformance to these recommendations.
9. Satisfactory fill materials are those complying with ASTM D2487, groups GW, GP, GM, SM, SW, and SP.
10. Compaction: Structural fill used beneath grade supported footings and pavements should be placed in 6-8inch loose lifts and compacted to at least 95% of its maximum dry density near optimum moisture content in accordance with ASTM D1557.
11. Density of compacted fill shall be verified by the Testing Agency prior to placement of subsequent lifts as required by the Specifications.
12. Sheeting, shoring, and associated excavation shall be performed in accordance with OSHA guidelines and is the Contractor's responsibility.
13. Backfill both sides of all foundation and retaining walls equally until low side is up to finish grade. Do not backfill any walls until concrete has reached its specified 28-day compressive strength.

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E. WOOD FRAMING

1. All wood framing fabrication and erection shall conform to the "National Design Specification (NDS) for Wood Construction" by the AFPA, the Plywood Design Specification by the APA, and the "Timber Construction Manual" as adopted by the American Institute of Timber Construction, including the AITC 106 "Code of Standard Practice" and ANSI/AITC A190.1 "American National Standard, Structural Glued Laminated Timber" by American Institute of Timber Construction.
2. See IBC International Building Code for minimum bracing and fastening requirements. Provide nailing patterns in compliance with IBC recommended fastening schedule.
3. All lumber or plywood in contact with masonry or exposed to earth or weather, including sill plates, shall be pressure treated with AWPA Standard U1 and the following Use Category depending on member:
   A. Sill plates - UC2
   B. Exterior framing exposed to weather & masonry, including plywood - UC3B
   C. Exterior framing exposed to earth - US4A
   D. Treatment shall be CCA or MCA to a minimum retention of 0.40 lbs/cubic foot in accordance with AWPA. ACQ treatment is not allowed without written approval of the structural engineer.
   E. This shall include raised floor framing joists, raised first floor plywood subfloor, all exterior plywood, rafter tails, & sills.
4. Load-bearing wall framing is based on the final condition of the structure with the sheathing providing bracing. Contractor shall provide temporary bracing of load-bearing studs as required during construction that will reproduce the effect of sheathing. Temporary bracing is the responsibility of the Contractor and therefore at the discretion of the Contractor.
5. Framing Lumber - Southern Yellow Pine grade marked and kiln dried, S4S, No. 2, maximum moisture content 19%. All member piece ends, joints, or splices shall be over supports unless noted otherwise.
6. Unless noted otherwise, multiple pieces of dimensional lumber used to form beam or header members shall be attached together with 4 rows of 16d nails spaced at 16" for pieces up to 12" deep, 5 rows of 16d nails at 16" for pieces 14" and 16" deep and 6 rows of 16d nails spaced at 16" for pieces 18" deep (respectively).
7. Unless noted otherwise, multiple pieces of engineered lumber shall be fastened together per provided fastening schedule and in accordance with manufacturer requirements.
8. All openings in exterior wood-framed walls shall have the following minimum number of studs at each jamb:
   1. Openings less than 4'-0".....2 Studs
   2. Openings 4'-0" to 6'-0".....3 Studs
   3. Openings 6'-0" to 10'-0".....4 Studs
   4. Openings larger than 10'-0"....See Plan or consult Struct. Eng.
9. Unless shown otherwise all openings in wall shall have headers consisting of a minimum of two 2x12s.
10. Members shall be set with crown up and have a minimum of 3 inches bearing.
11. Splice double sole plates directly over stud. Stagger splice of each plate.
12. Provide solid wood blocking or diagonal bridging for dimensioned lumber floor joists at intervals not exceeding 8'-0" o.c. max during construction. Blocking shall remain.
13. All load-bearing dimensional lumber walls shall have solid blocking at a maximum interval of 4ft o.c. during construction. Blocking shall remain.
14. All plywood sheathing shall comply with APA and have exterior glue.
15. Plywood Floor Sheathing - APA rated 48/24, 23/32" (3/4" nominal) thick. Nail with 12d nails spaced at 6" o.c. at panel ends and 12" o.c. at intermediate supports. The use of staples will not be allowed
16. Plywood Roof Sheathing - APA rated 32/16, 19/32" (5/8" nominal) thick. Fasten with 8d ring shank (.131" min. diameter) at 6" o.c. at panel edges and 12" o.c. at intermediate supports for main roof areas. At corners and edges, fasten with 8d ring shanks nails at 6" o.c. at panel edges and 6" o.c. at intermediate supports. The use of staples will not be allowed. Vertical joints of plywood roof sheathing shall be staggered every four feet or less. Roofing fasteners shall extend minimum 1-1/2" into supports.
17. Plywood Wall Sheathing - Wall sheathing shall be APA rated 32/16 Struct 1 sheathing, 15/32" (1/2" nominal) thick. Provide plywood sheathing on all the exterior walls to brace the structure for wind loads. Unless shown otherwise all plywood sheathing shall be fastened with 8d ring shank nails (.131" min. diameter) spaced at 6" o.c. maximum along supporting members on the interior or each sheet and spaced at 4" o.c. maximum along supporting members at the edges of each sheet. All plywood wall sheathing shall have solid blocking at all horizontal joints.
18. OSB will not be accepted as a substitution for plywood without approval by the EOR.
19. LVL Members - All members designated as "LVL" shall be laminated veneer lumber having properties and strength equal to Trus Joist "Microllam" with a minimum designated modulus of elasticity of 2000 ksi (2.0E) for all headers and beams. LVL members shall be glued and nailed together following the manufacturer's instructions.
20. PSL Members - All members designated as "PSL" or "PSL Plus" shall be parallel strand lumber having properties and strength equal to Trus Joist "Parallam" with a minimum designated modulus of elasticity of 2000 ksi (2.0E) for all headers and beams. Members exposed to weather shall be "Parallam Plus" members with a minimum Service Level II pressure treatment by the manufacturer.
21. TJI Members - All members designated as "TJI" shall be I-shaped joist members having properties and strength equal to those produced by the TrusJoist Company.
22. Trimjost Members - All members designated as "Trimjoist shall be open-web truss members having properties and strength equal to those produced by the Trimjoist Company. If alternative company is requested, stamped shop drawings shall be provided by the Contractor with request for approval.
23. Wood trusses shall be attached to supports with specified galvanizes metal connectors.
24. Every truss member shall be sized and braced such that the ratios of its length to its depth (l/d) is less than 50.
25. Lateral bracing must be designed and installed on the bottom chords to meet aforementioned l/d requirements in locations where ceilings are not rigidly attached to the truss bottom chords.
26. The design, configuration, layout and spacing of all trusses shall be coordinated by the truss designer with the mechanical, ductwork and all architectural drawings.
27. All connection bolts for timber framing members shall be minimum 3/4"Ø ASTM A307 bolts.
28. All bolts and lag bolts shall be fitted with galvanized, malleable iron or steel plate washers.
29. All hangers, clips, connectors, anchors, ties, etc. shall be attached with nails of the maximum size and type recommended by the manufacturer. All holes in connectors shall be filled.
30. All treated wood members shall be connected or fastened with galvanized hangers, nails, screws, bolts, and all other accessories. The coating must be hot-dipped to an equivalent of G-90 rating or greater..

F. ADHESIVE ANCHORS AND DOWELS

1. Substitution of expansion or adhesive anchors for embedded anchors shall not be permitted unless specifically approved in writing by the Structural Engineer of Record prior to pouring the concrete containing the anchors.
2. Unless noted otherwise, Hilti HIT-HY 270 epoxy system shall be used for an adhesive anchor in brick and concrete masonry.
3. Unless noted otherwise, Hilti HIT-HY 200 V3 epoxy system shall be used for an adhesive anchors or dowels in concrete.
4. Where base material is hollow block brick or other material containing pockets or voids, a screen tube, per manufacturer's recommendations, shall be employed in the system.
5. The spacing, minimum embedment, and installation of the anchors shall be in accordance with the manufacturer's recommended procedures and in accordance with the plans.
6. Anchor rods used in adhesive anchorage systems shall conform to ASTM F1554 steel.
7. Use of diamond core bit with roughening tool for anchor holes requires approval from engineer of record prior to drilling. Unless otherwise shown in the drawings, all holes shall be drilled perpendicular to the concrete surface.
8. Overhead adhesive anchors must be installed using the Hilti Profi piston plug system.

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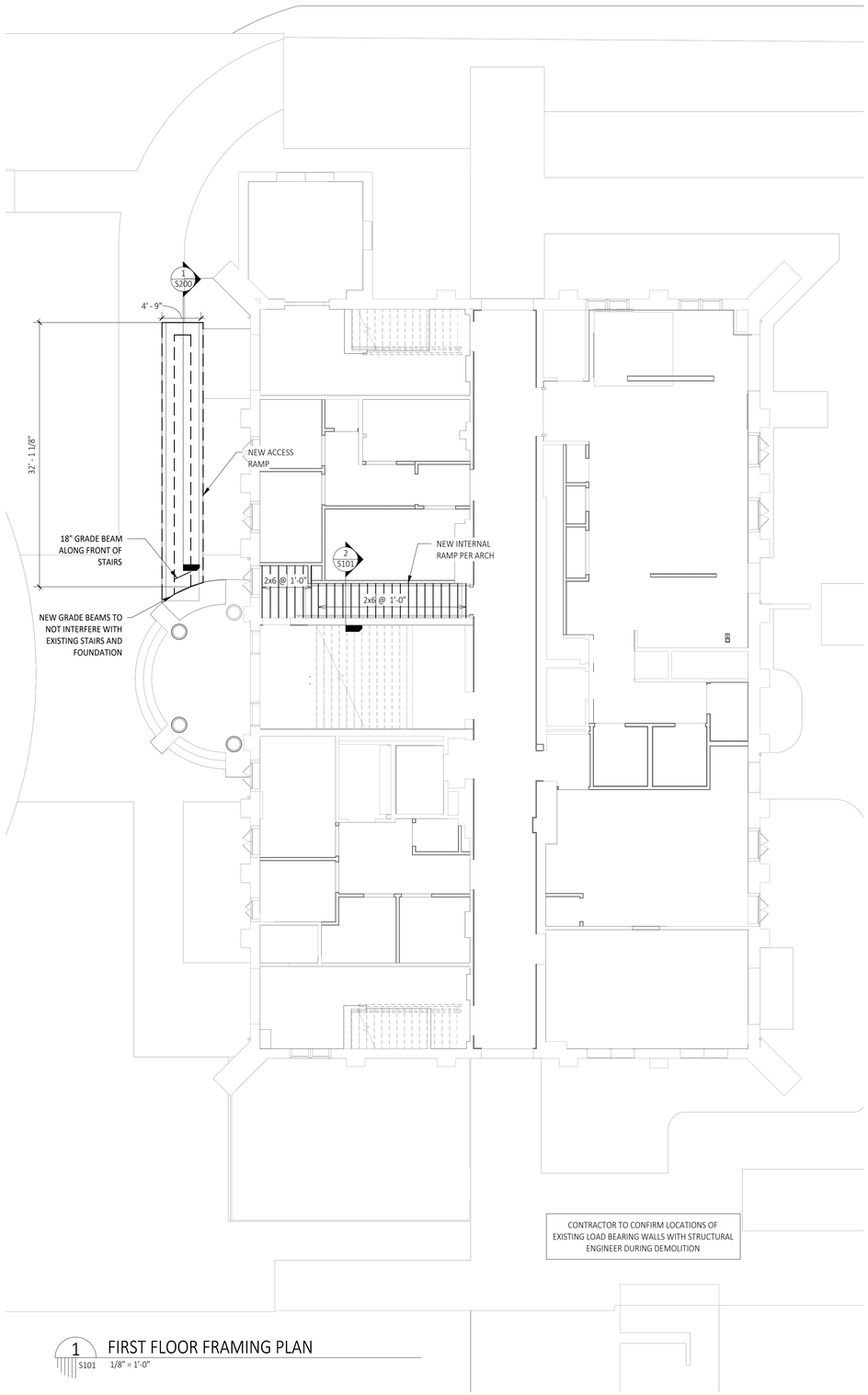
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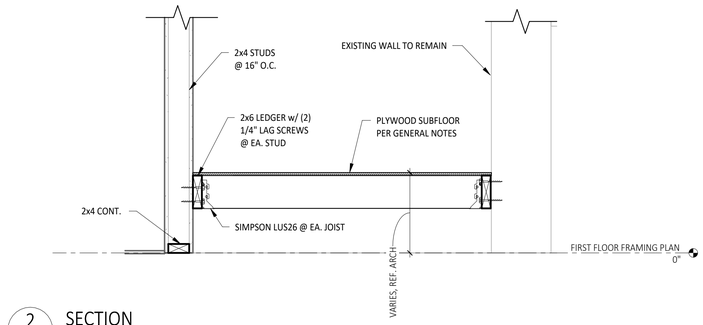
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S001

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1 S101 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"



2 S101 | S101 SECTION
1" = 1'-0"

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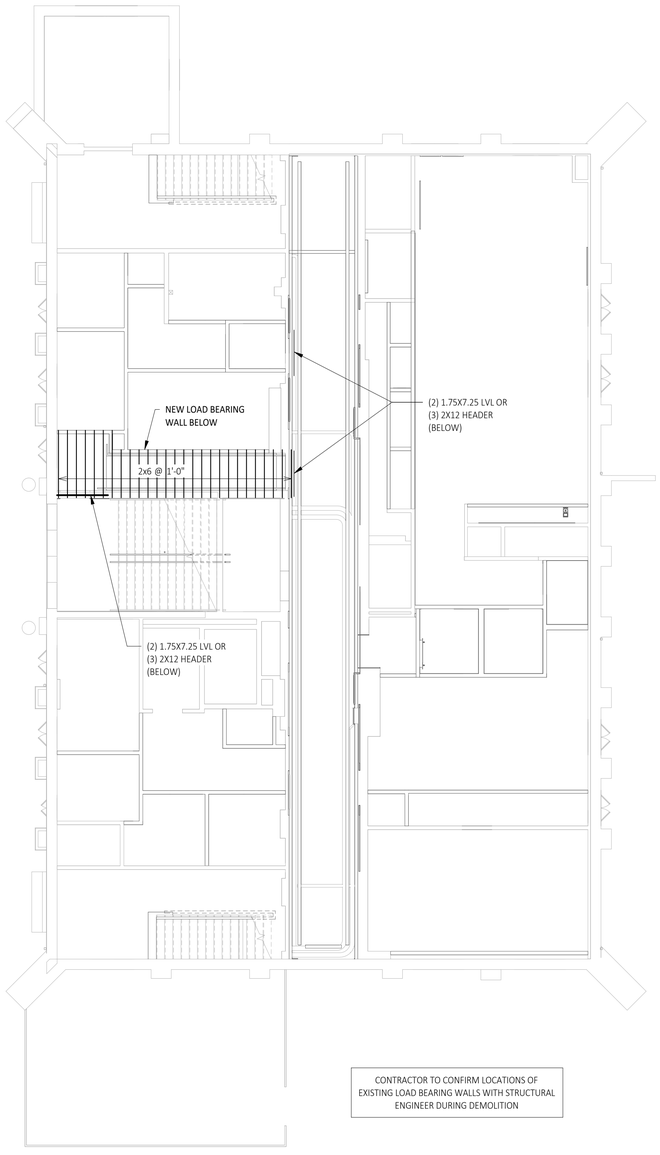
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1ST FLOOR PLAN

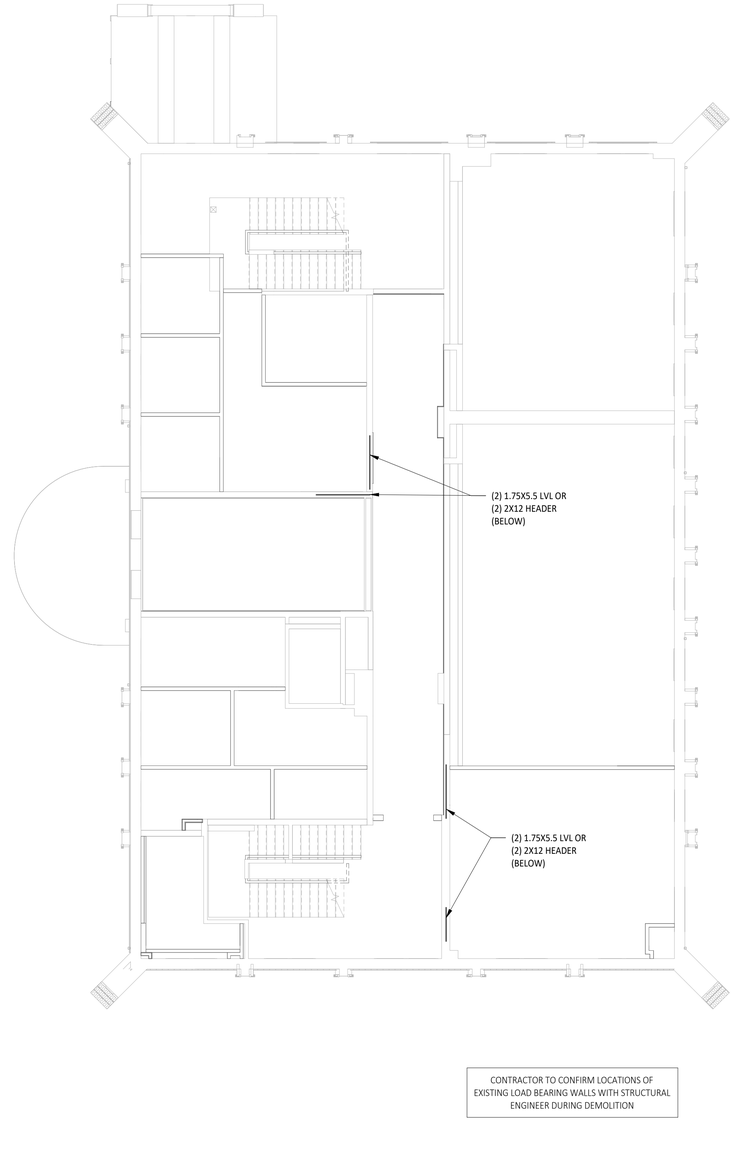
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1 S102 SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"



2 S102 THIRD FLOOR FRAMING PLAN
1/8" = 1'-0"

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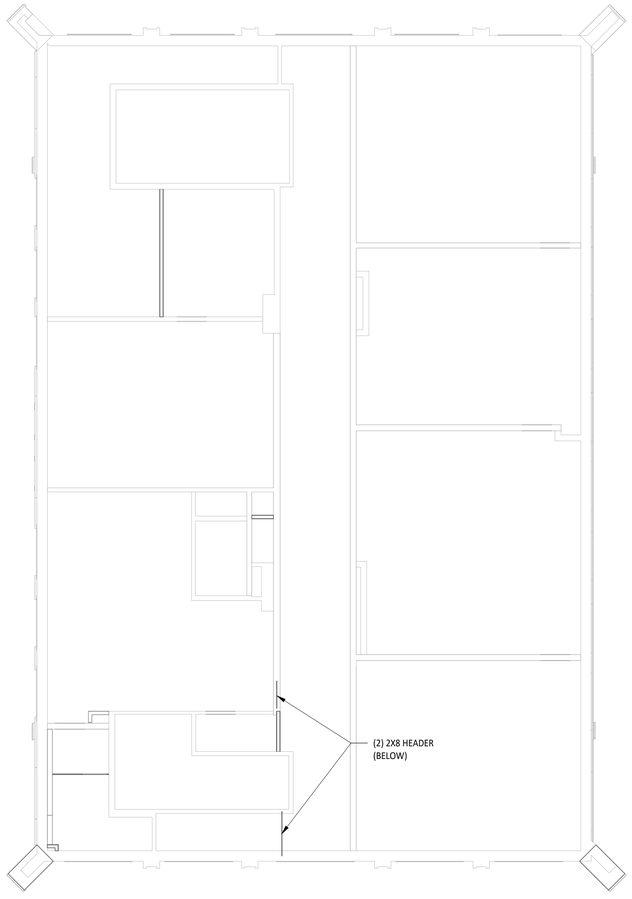
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2ND & 3RD FLOOR FRAMING PLAN

S102

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1 S103 ATTIC FRAMING PLAN
1/8" = 1'-0"

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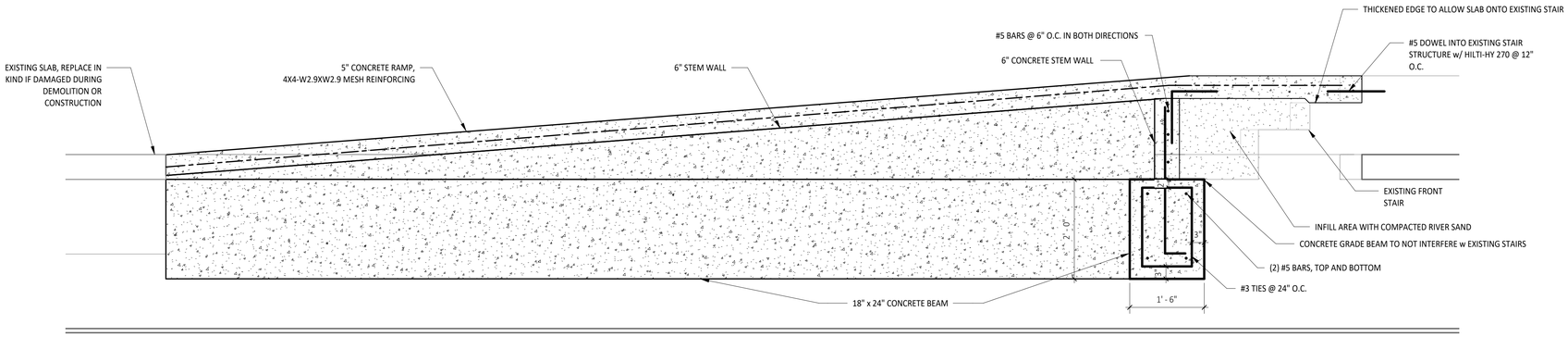
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ATTIC FRAMING PLAN

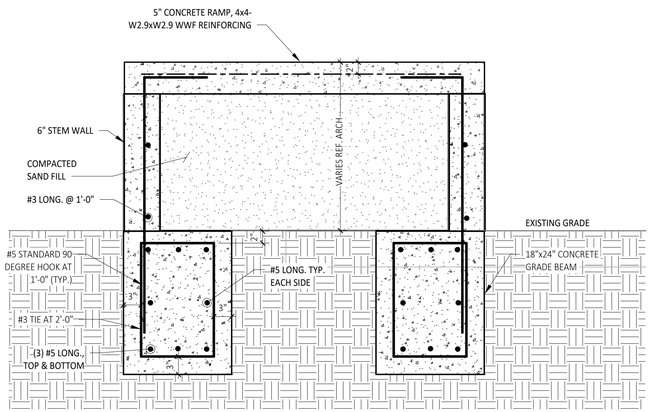
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1 S200 Ramp Section
3/4" = 1'-0"



2 S200 Section 5
1" = 1'-0"

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RAMP SECTIONS & DETAILS

S200

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GENERAL NOTES

1. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL, AND ELECTRICAL INSTALLATIONS PRIOR TO PERFORMING ANY WORK TO AVOID CONFLICTS.
2. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE ALL FINAL CONNECTIONS TO SITE UTILITIES. COORDINATE WITH LOCAL UTILITY FOR EXACT REQUIREMENTS.
3. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
4. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL ROOF PENETRATIONS WHICH SHALL ALL BE FLASHED PER SPECIFICATIONS.
5. COORDINATE ANY STRUCTURAL PENETRATIONS WITH THE ARCHITECT AND THE STRUCTURAL ENGINEER PRIOR TO ROUTING.
6. PROVIDE FOUNDATION PAD PENETRATION SLEEVES, ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
7. COORDINATE WITH ARCHITECTURAL PLANS AND ELEVATIONS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
8. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS AND SHALL BE PRIMED FROM THE NEAREST WATER CLOSET OR SINK. DRAINS SHALL NOT BE PRIMED USING LOW FLOW LAVATORIES.
9. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
10. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
11. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
12. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE ALL FINAL CONNECTIONS TO ALL EQUIPMENT.
13. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS.
14. PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW ORLEANS SEWAGE AND WATER BOARD AND THE 2021 INTERNATIONAL PLUMBING CODE WITH LOUISIANA AMENDMENTS.
15. REMOVE ALL EXISTING PIPING THAT CONFLICTS WITH NEW CONSTRUCTION SHOWN ON PLAN AND CAP ALL MAINS AS REQUIRED.
16. ALL EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. MAKE MODIFICATIONS TO EXISTING PLUMBING SYSTEMS AS REQUIRED TO INSTALL NEW PLUMBING SYSTEMS SHOWN ON PLAN.
17. ALL DOMESTIC HOT, HOT WATER RETURN, AND COLD WATER PIPING, INCLUDING RISERS, INSTALLED IN CRAWL SPACES, ABOVE FINISHED CEILINGS SHALL BE INSULATED. PIPING INCLUDES PEX AND PCC INSTALLED ABOVE CEILINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
18. PROVIDE A SAFETY PAN CONSTRUCTED WITH A MINIMUM 16 GAUGE, GALVANIZED IRON UNDER EACH WATER HEATER. PROVIDE PIPING FROM PAN TO NEAREST FLOOR DRAIN.
19. COORDINATE ALL PIPE RUNS WITH OTHER TRADES. PIPING SHALL NOT BE RUN DIRECTLY ABOVE ANY ELECTRICAL EQUIPMENT INCLUDING PANELBOARDS, TRANSFORMERS, BUS DUCTS, ETC.
20. ALL PENETRATIONS THROUGH SMOKE AND FIRE RATED FLOORS AND WALLS SHALL BE FIRE CAULKED USING U.L. LISTED ASSEMBLIES TO MAINTAIN THE RATING OF BARRIER.
21. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
22. ALL BACKFLOW PREVENTERS SHALL BE INSTALLED BY WSPS ENDORSED PLUMBER WHO IS ON THE SWBNO APPROVED TESTERS LIST.

ABBREVIATIONS

AD	ACCESS DOOR
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BV	BALL VALVE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DN	DOWN
DS	DOWNSPOUT
DWV	DRAIN WASTE VENT
(E)	EXISTING
FCO	FLOOR CLEANOUT
GW	KITCHEN WASTE (GREASE)
HB	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATING
IE	INVERT ELEVATION
ICS	IN CRAWL SPACE
KW	KILOWATT
LBS	POUNDS
MH	MANHOLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
SAN	SANITARY
SD	STORM DRAIN
SF	SQUARE FEET
SH	SHEET
ST	STORM
SDO	OVERFLOW STORM DRAIN
TYP	TYPICAL
UG	UNDERGROUND
V	VENT
VAC	VACUUM
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WTR	WATER

SYMBOLS

S	SANITARY WASTE (SEWER) PIPING (S)
V	SANITARY VENT (V)
GW	GREASY WASTE LINE (GW)
ST	STORM DRAIN PIPING (ST)
STO	OVERFLOW STORM DRAIN PIPING (ST)
CD	CONDENSATE DRAIN PIPING (ST)
CW	DOMESTIC COLD WATER PIPING (CW)
HW	DOMESTIC HOT WATER PIPING (HW)
HWR	DOMESTIC HOT WATER RETURN PIPING (HWR)
G	NATURAL GAS PIPING (G)
UG	UNDERGROUND NATURAL GAS PIPING (G)
FD	FLOOR DRAIN
FS	FLOOR SINK
AD	AREA DRAIN
	HOSE BIB
	RECESSED WALL HYDRANT
	BALL VALVE
	CHECK VALVE (SWING)
	PRESSURE REDUCING REQUIRED
4" S (PIPE SIZE / PLUMBING SYSTEM)	PIPE ANNOTATION
	PIPE UP
	PIPE DOWN
CO	FLOOR CLEANOUT
WCO	WALL CLEANOUT

CROSS CONNECTION BACKFLOW PREVENTION NOTES

1. ENSURE THAT NO WATER DRAWS EXIST PRIOR TO THE BACKFLOW ASSEMBLIES.
2. COFFEE/TEA MAKER & ESPRESSO MAKER – REQUIRES A DUAL CHECK.
3. WATER CONNECTIONS FOR DISH AND WARE WASHERS USING CHEMICALS SHALL BE PROVIDED WITH REDUCED PRESSURE ZONE VALVES.
4. BACKFLOW PREVENTER RELIEF DRAINS SHALL BE PIPED TO THE NEAREST DRAIN AND BE PROVIDED WITH AIR GAP FITTINGS. INSTALL IN ACCESSIBLE LOCATIONS.

INSTALLATION / COORDINATION NOTES

1. PRIOR TO ROUGH-IN OF SYSTEMS EQUIPMENT, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR A COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED.
2. IF EXACT LOCATION, MOUNTING OR ROUTINGS ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
3. EQUIPMENT & PIPING INSTALLATION NOT COORDINATED WITH ALL OTHER BUILDING SYSTEMS AND BUILDING COMPONENTS WHICH CAUSES INTERFERENCE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
4. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EXISTING STRUCTURAL MEMBERS AND COORDINATE INSTALLATION OF THE IMPROVEMENTS ACCORDINGLY.

MECHANICAL/PLUMBING/ELECTRICAL COORDINATION REQUIREMENTS

FOR MECHANICAL AND PLUMBING EQUIPMENT AS INDICATED ON M AND P DRAWINGS, THE RESPECTIVE CONTRACTORS SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO CONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS. THIS SHALL INCLUDE COORDINATION FOR COMPLETE WIRING, STARTERS, AND DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

PLUMBING DEMOLITION GENERAL NOTES

1. PLUMBING CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING WET COLUMN RISERS AND BRANCH PIPING PRIOR TO ANY NEW CONNECTIONS.
2. PORTION OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE SHALL BE CUT AT CONVENIENT LOCATIONS, RE-ROUTED AND RECONNECTED.
3. ALL EXISTING MATERIAL IN USEABLE CONDITION WHICH IS TO BE REMOVED UNDER THIS CONTRACT SHALL BE PROTECTED AND REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THIS CONTRACTOR, AS DIRECTED BY THE OWNER.
4. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
5. ALL SERVICE SHUT DOWNS SHALL BE COORDINATED WITH THE OWNER.
6. MAINTAIN CONTINUITY OF ALL EXISTING DOMESTIC WATER AND SYSTEMS WHICH SERVE THE ADJACENT AREA AND ARE NOT AFFECTED BY THIS CONTRACT.
7. DURING DEMOLITION PHASE OF THIS PROJECT, CONTRACTOR SHOULD PROTECT EXISTING PIPING LOCATED IN THE STUD WALL AND ALL PLUMBING RELATED TO THE RISERS.
8. FIELD VERIFY ALL PLUMBING PIPING LOCATIONS.
9. ALL EXISTING PLUMBING RISERS (I.E. SANITARY, VENT, STORM, HOT AND COLD WATER) SHALL BE PROTECTED DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.

BASE FLOOD ELEVATION NOTES

1. FOR CONSTRUCTION IN FLOOD ZONE X: ALL MEP/FP EQUIPMENT THAT IS NOT SUBMERSIBLE SHALL BE INSTALLED AT A MINIMUM ELEVATION OF 3 FEET ABOVE THE STREET CURB. IF NO CURB EXISTS, THE CENTERLINE OF THE HIGHEST ADJACENT STREET SHALL BE USED AS DATUM.
2. FOR CONSTRUCTION IN FLOOD ZONES A AND V: ALL MEP/FP EQUIPMENT THAT IS NOT SUBMERSIBLE SHALL BE INSTALLED AT A MINIMUM ELEVATION OF 3 FEET ABOVE THE STREET CURB, OR 1 FOOT ABOVE THE BASE FLOOD ELEVATION AS DEFINED BY NEW ORLEANS' FLOOD INSURANCE RATE MAP (FIRM), WHICHEVER ELEVATION IS GREATER. IF NO CURB EXISTS, THE CENTERLINE OF THE HIGHEST ADJACENT STREET SHALL BE USED AS DATUM.

PLOT PLAN & FEMA MAP



AREA WORK

PROJECT:	ST, GEORGE'S EPISCOPAL SCHOOL - PORTEUS
ADDRESS:	923 Napoleon Avenue New Orleans, LA 70115
SCOPE:	PARTIAL EXISTING BUILDING RENOVATION WITH AN ADDITION (1ST - 2ND AND 3RD FLOORS & ROOF)
PROPERTY DESCRIPTION:	EDUCATIONAL FACILITY
LOT:	6-10
SQUARE:	230
FLOOD ZONE:	ZONE X +6.0

PLUMBING FIXTURE SCHEDULE

NOTES:

1. CLEANOUT SHALL BE SAME SIZE AS SANITARY SEWER PIPE.
2. FLOOR DRAIN TO BE INSTALLED WITH 1/2" TRAP PRIMER; SEE PLANS FOR SANITARY SEWER AND VENT CONNECTION SIZES.
3. FOR MAKE/MODEL, SEE ARCHITECT SHEETS.
4. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
5. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE.
6. PROVIDE WITH P-TRAP.
7. PROVIDE WITH ANGLE STOP VALVES

MARK	FIXTURE DESCRIPTION	ACCEPTABLE MANUFACTURERS	MISCELLANEOUS ITEMS	CONNECTION SIZE				NOTES
				CW DIA	HW DIA	VENT DIA	SAN DIA	
FD-1	2" OUTLET, 5" STRAINER CAST IRON FLOOR DRAIN WITH WEEPHOLES	WATTS: FD-100		-	-	2"	2"	2,4
HD-42	STAINLESS STEEL HUB DRAIN WITH 4" INNLET AND 2" OUTLET	ZURN: Z-1870		-	-	-	2"	4
PL-01	FLOOR MOUNT ELONGATED ADA WATER CLOSET WITH 1-1/2" TOP SPUD INLET. PROVIDE WITH 1.28 GPF MANUAL FLUSHOMETER	SLOAN: ST-2029	FLUSH VALVE - SLOAN: GEM-2 111-1.28-XL	1"	-	2"	4"	3,4,7
PL-02	WALL HUNG, ADA COMPLIANT VITREOUS CHINA LAVATORY SINK WITH HOLES 8" O.C. AND CENTER OVERFLOW. PROVIDE WITH 1.2 GPM, DECK MOUNT, WIDE SPREAD FAUCET AND DRAIN WITH TAILPIECE	AMERICAN STANDARD: 9024.008EC	FAUCET - DELTA: 35749LF-SS	1/2"	1/2"	2"	1-1/4"	3-7
PL-03	ROUND, UNDERCOUNTER LAVATORY SINK WITH FRONT OVERFLOW. PROVIDE WITH 1.2 GPM, DECK MOUNT, WIDE SPREAD FAUCET AND DRAIN WITH TAILPIECE	AMERICAN STANDARD: 0630.000	FAUCET - DELTA: 35749LF-SS	1/2"	1/2"	1-1/4"	1-1/2"	3-7
PL-05	WALL MOUNTED URINAL WITH TOP SPUD MANUAL FLUSHOMETER. 0.125 GPF PROVIDE WITH CARRIER	SLOAN: WEUS-1000.1001		3/4"	-	2"	2"	3,4,7
PL-06	24"X18" STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK WITH SINGLE HANDLE, 1.8 GPM PULL DOWN FAUCET. PROVIDE WITH DRAIN WITH STRAINER AND TAILPIECE.	ELKAY: ELUHAD211545	FAUCET - DELTA: 9159-AR-DST DRAIN - ELKAY: LK99	3/8"	3/8"	2"	1-1/4"	3-7
WCO	SANITARY WALL CLEANOUT	WATTS: CO-460-RD		-	-	3"	4"	1,4

PUMP SCHEDULE

NOTES:

1. PROVIDE WITH AQUASTAT, SET TO 100F.
2. PUMP SHALL BE PROVIDED WITH INTEGRAL FREQUENCY CONVERTER.
3. PROVIDE WITH CIRCUIT SOLVER BALANCING VALVE. SEE PLANS FOR SIZE.
4. PUMP SHALL BE STAINLESS STEEL CONSTRUCTION.
5. PROVIDE MANUFACTURER PROVIDED FLANGE SET. SEE PLANS FOR PIPE SIZE.
6. PUMP SHALL BE SET TO OWNER PROVIDED SCHEDULE.

UNIT NO.	SERVICE	DESCRIPTION	GPM	HEAD [FT]	POWER [W]	RPM	ELECTRICAL		ACCEPTABLE MANUFACTURERS	NOTES
							VOLT/PH/HZ	FLA		
CP-1	WH-2	HOT WATER RETURN PUMP	1.5	45	606	4300	115/1/60	5.3	GRUNDFOS: MAGNA3 40-180	1-6

WATER HEATER SCHEDULE

NOTES:

1. WATER HEATER TO BE FURNISHED AND INSTALLED WITH THERMAL EXPANSION TANK AMTROL ST-5.
2. PROVIDE AND INSTALL CIRCULATOR PUMP (CP-1). SEE PUMP SCHEDULE FOR INFORMATION.
3. WATER HEATER TO BE PROVIDED WITH IMMERSION STYLE THERMOSTAT.
4. PROVIDE WITH EMERGENCY DRAIN PAN AND LEAK DETECTOR.

UNIT NO.	LOCATION	TYPE	FUEL TYPE	CAPACITY	UEF	KW	ELECTRICAL		WEIGHT [LBS]	ACCEPTABLE MANUFACTURERS	NOTES
							VOLT/PH/HZ	FLA			
WH-1	1ST FLOOR	LOWBOY	ELECTRIC	35	0.93	4.5	208/1/60	21.6	146	AO SMITH: DEL-40-120	1,3,4
WH-2	ATTIC	LOWBOY	ELECTRIC	35	0.93	4.5	208/1/60	21.6	146	AO SMITH: DEL-40-120	1-4

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P000	PLUMBING TITLE SHEET
P001	PLUMBING - SPECIFICATIONS AND ENERGY CODE REQUIREMENTS
P100	PLUMBING - UNDERGROUND FLOOR PLAN - DEMOLITION
P101	PLUMBING - FIRST AND SECOND FLOOR PLAN - DEMOLITION
P102	PLUMBING - THIRD FLOOR PLAN - DEMOLITION
P200	PLUMBING - UNDERGROUND FLOOR PLAN
P201	PLUMBING - FIRST AND SECOND FLOOR PLAN
P202	PLUMBING - THIRD FLOOR PLAN AND ROOF PLAN
P501	PLUMBING - DETAILS
P502	PLUMBING - DETAILS

STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 22003

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STATE OF LOUISIANA
LOREY A. FLICK
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PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

ISSUE DATE | 1 AUGUST 2025
CONSTRUCTION DOCUMENTS
REVISIONS

PLUMBING TITLE SHEET

SYNERGY
CONSULTING ENGINEERS
805 Howard Ave., Suite 101, New Orleans, LA 70113
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P000

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PLUMBING SPECIFICATIONS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL A PLUMBING SYSTEM COMPLETE WITH ALL DEMOLITION, RIGGING, EQUIPMENT, PIPING, INSULATION, CONTROLS, ACCESSORIES AND ASSOCIATED WORK AND LABOR IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE SPECIFICATION, 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL PLUMBING CODE, SEWAGE AND WATER BOARD OF NEW ORLEANS PLUMBING CODE BOOK, 2019 NFPA, 13, 14, 20 AND 24. 2021 INTERNATIONAL FUEL GAS CODE, 2021 INTERNATIONAL ENERGY CODE, WITH ALL THE NEW ORLEANS AND LOUISIANA SUPPLEMENTS AND MODIFICATIONS, AND ALL AUTHORITIES HAVING JURISDICTION.

2. THE WORK SHALL INCLUDE ALL DEMOLITION, LABOR, MATERIALS, EQUIPMENT, HOISTING AND RIGGING, SCAFFOLDING, DISASSEMBLY & REASSEMBLY OF EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE SYSTEM AND PROVIDE THE OWNER WITH A FULLY OPERATIONAL SYSTEM.

3. ALL PLUMBING WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.

4. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION TO AVOID CONFLICTS. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION.

5. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR REQUIRED CEILING ELEVATIONS AND SPACE CLEARANCES AND DETAILS.

6. ALL NECESSARY CUTTING AND PATCHING OF FLOOR SLABS, ROOF SLABS, WALLS, AND CEILINGS FOR THE PLUMBING WORK SHALL BE PERFORMED BY THIS CONTRACTOR. RESTORE TO MATCH EXISTING CONDITIONS.

7. BIDDERS, BEFORE SUBMITTING PROPOSALS, SHALL VISIT AND CAREFULLY EXAMINE THE AREA AFFECTED BY THIS WORK TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS, REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AS EXAMINATION BEEN MADE.

8. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE DAMAGED EQUIPMENT AND/OR MATERIAL.

9. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE TO FINAL ACCEPTANCE OF THIS WORK. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.

10. SUBMIT SHOP DRAWINGS, CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND CONTROL SHOP DRAWINGS. SUBMIT FOUR (4) BOOKBOUND OPERATING AND SERVICE MANUALS WHICH SHALL INCLUDE COPIES OF ALL SHOP DRAWINGS.

11. PIPE PENETRATIONS: WHERE PIPE PENETRATES RATED WALLS, THE SPACE BETWEEN THE INSULATION AND THE WALL SHALL BE CAULKED WITH NON-COMBUSTIBLE MATERIAL IN AN APPROVED MANNER.

12. PROVIDE ACCESS DOORS TO BE INSTALLED IN GENERAL CONSTRUCTION WHICH WILL BE REQUIRED FOR THE PROPER OPERATION AND MAINTENANCE OF ALL CONCEALED VALVES, AND OTHER SIMILAR DEVICES. PREPARE A LIST AND SUBMIT TO THE GENERAL CONTRACTOR FOR HIS INSTALLATION.

13. PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. PROVIDED PLASTIC COATED RING ON HANGERS FOR COPPER PIPING TO PROVIDE DIELECTRIC ISOLATION.

14. PROVIDE DIELECTRIC UNIONS OR FLANGES BETWEEN COPPER AND STEEL PIPING AND BETWEEN BRASSWARE AND STEEL. DO NOT USE STEEL AND COPPER PIPING IN THE SAME SYSTEM WITHOUT SUCH ISOLATION.

15. PROVIDE REDUCING FITTINGS (REDUCING BUSHINGS SHALL NOT BE USED) WHERE CHANGES IN PIPE SIZES OCCUR.

16. THIS CONTRACTOR SHALL SUPPLY AND INSTALL ALL SERVICES THROUGHOUT THE BUILDING AND MAKE CONNECTION TO SITE UTILITIES APPROXIMATELY 5'-0" OUTSIDE THE BUILDING. CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURES, FITTINGS, VALVING AND TRIM AND MAKE READY FOR USE ALL FIXTURES, EQUIPMENT, ETC.

17. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

18. DOMESTIC WATER - ABOVEGROUND WATER PIPE AND FITTINGS - TYPE "L" COPPER OR PEX OR POLYPROPYLENE.
A. PEX PIPING SHALL BE UPONOR PEX A OR EQUIVALENT. UPONOR RED AND BLUE COILS ARE NOT ALLOWED.
B. POLYPROPYLENE PIPING SHALL BE NIRON BY NUPI AMERICAS OR EQUIVALENT.

19. PROVIDE UNIONS OR FLANGES IN ALL DOMESTIC WATER SERVICE LINES AT EACH PIECE OF EQUIPMENT, SPECIALTY VALVES OR AT OTHER LOCATIONS REQUIRED FOR READY DISCONNECT.

20. JOINT CONSTRUCTION

A. HUB AND SPIGOT, CAST IRON SOIL PIPING SHLL BE JOINED WITH GASKET JOINTS IN ACCORDANCE WITH CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK".

B. COPPER TUBES AND FITTING SHALL BE JOINED WITH SOLDERED JOINTS IN ACCORDANCE WITH ASTM B828. USE ASTM B813 WATER-FLUSHABLE, LEAD FREE FLUX AND ASTM B32 LEAD FREE ALLOY SOLDER.

C. PVC PIPING SHALL BE JOINED USEING PLASTIC, NON-PRESSURE PIPING, SOLVENT CEMENT JOINTS. PIPING SHALL BE JOINED IN ACCORDANCE WITH ASTM D2855 AND ASTM D2665 APPENDIXES.

D. FOR PIPING INSTALLED WITH GROOVED JOINTS, CUT GROOVE ENDS OF PIPE ACCORDING TO AWWA C606. LUBRICATE AND INSTALL GASKET OVER ENDS OF PIPES OR PIPE AND FITTING. INSTALL COUPLING HOUSING SECTIONS, OVER GASKET, WITH KEYS SEATED IN PIPING GROOVES. INSTALL AND TIGHTEN HOUSING BOLTS.

21. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT THE LOCATIONS ON THE PLANS AND IN ACCORDANCE WITH PDI STANDARD WH-201. PRODUCTS SHALL BE EQUAL TO THOSE MANUFACTURED BY PRECISION PLUMBING PRODUCTS OR SIOUX CHIEF.

22. VALVES: PROVIDE VALVES TO ISOLATE EACH RISER, BRANCH LINE AND PIECE OF EQUIPMENT.

23. SANITARY (NON-PRESSURE) AND VENT - ABOVE GROUND SHALL BE SCHEDULE 40 SOLID CORE PVC AND BELOW GROUND SHALL BE SCHEDULE 80 SOLID CORE PVC OR NO-HUB CAST IRON SOIL PIPE AND FITTINGS PER CISPI 301 WITH HEAVY DUTY SHIELDED STAINLESS STEEL COUPLINGS.

24. CONDENSATE PIPING - DWV COPPER OR NO-HUB CAST IRON SOIL PIPE AND FITTINGS PER CISPI 301 WITH HEAVY DUTY SHIELDED STAINLESS STEEL COUPLINGS.

25. UNLESS OTHERWISE NOTED, SLOPE OF DRAINAGE SYSTEM SHALL BE 1/8" PER FOOT OF RUN FOR PIPE OVER 2-½" AND 1/4" PER FOOT FOR PIPE 2-1/2". VERIFY INVERT ELEVATION WITH EXISTING PIPING PRIOR TO ANY PIPE BEING INSTALLED.

26. PROVIDE AND PROPERLY LOCATE HANGERS TO ADEQUATELY SUPPORT PIPING. ARRANGE HANGERS TO PERMIT EXPANSION AND CONTRACTION. DO NOT HANG PIPING FROM FIRE OR SMOKE WALLS. PROVIDE PIPE HANGERS AT EACH VALVE, STRAINER, AND OTHER PIPING ACCESSORY, AND AT EACH CHANGE OR DIRECTION.

27. THE SIZE OF HANGERS FOR NON-INSULATED PIPES SHALL BE SUITABLE FOR THE PIPE SIZE TO BE SUPPORTED. FOR INSULATED PIPING, THE SIZE OF THE HANGER SHALL BE SUITABLE FOR THE PIPE SIZE, PLUS THE INSULATION AND INSULATION SHIELD.

28. HORIZONTAL PIPE HANGER REQUIREMENTS:
CAST IRON PIPING (ALL SIZES)
5 FOOT HANGER SPACING

29. PEX PIPING
1" AND SMALLER – 32 INCH HANGER SPACING
1-1/4" AND LARGER – 4 FOOT HANGER SPACING

30. POLYPROPYLENE PIPING
1" AND SMALLER – 32 INCH HANGER SPACING
1-1/4" AND LARGER – 4 FOOT HANGER SPACING

31. PVC PIPING (ALL SIZES)
4 FOOT HANGER SPACING

32. COPPER TUBING:
1-1/4 AND SMALLER – 6 FOOT HANGER SPACING
1-1/2 AND LARGER – 10 FOOT HANGER SPACING
PLUMBING FIXTURES AND TRIM

33. ALL PLUMBING FIXTURES SHALL BE "FIRST QUALITY" AS DEFINED AND SET FORTH IN COMMERCIAL STANDARD CS77-28 AS PROMULGATED BY THE U.S. DEPARTMENT OF COMMERCE.

34. ALL FIXTURES ARE TO BE WHITE VITREOUS CHINA UNLESS OTHERWISE SPECIFICALLY NOTED.

35. FIXTURES AND FITTINGS PROPOSED SHALL BE FROM ONE MANUFACTURER AND OF SIMILAR CHARACTER IN ANY ROOM OR LOCATION. ESCUTCHEONS, HANDLES, ETC., ON THE DIFFERENT FIXTURES SHALL BE OF THE SAME DESIGN.

36. PROVIDE FIXTURE CARRIERS AS RECOMMENDED BY FIXTURE MANUFACTURER AND/OR CONSTRUCTION METHOD.

37. ALL PLUMBING FIXTURES AND HOSE BIBBS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC TYPE VACUUM BREAKER.

38. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

39. FLOOR DRAIN TRAP SEALS SHALL HAVE AN APPROVED PRIMING DEVICE DESIGNED FOR THAT PURPOSE.

40. ALL CONCEALED TRAPS, PRIMERS, VALVES, CLEANOUTS, ETC. LOCATED IN TILED AREAS SHALL BE PROVIDED WITH AN ACCESS PANEL.

41. ABOVE GROUND COLD WATER PIPING - FIBERGLASS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. INSULATION SHALL BE 1/2" THICK FOR PIPING SMALLER THAN 1-1/2" DIAMETER. INSULATION SHALL BE 1" THICK FOR PIPING 1-1/2" AND LARGER IN DIAMETER.

42. ABOVE GROUND HOT WATER AND HOT WATER RETURN PIPING - FIBERGLASS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 100°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. INSULATION SHALL BE 1-1/2" THICK FOR PIPING 1-1/2" AND LARGER IN DIAMETER.

43. ABOVE GROUND, EXPOSED WASTE PIPING, LOCATED IN AN UNCONDITIONED SPACE - FIBERGLASS, 1/2" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

44. PVC SANITARY SEWER AND VENT PIPING LOCATED IN PLENUMS SHALL BE PROVIDED WITH FIBERGLASS INSULATION, 1/2" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

45. ABOVEGROUND CONDENSATE PIPING SHALL BE 1/2" FLEXIBLE UNICELLULAR POLYOLEFIN FOAM AND SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50-IMCOA "IMCOLOCK".

46. VALVES 2" AND SMALLER SHALL BE BALL VALVES, 150 PSI SWP, 400 PSI WOG. STANDARD PORT BALL, BRONZE TRIM, CAST BRONZE BODY, CHROMIUM-PLATED BRASS BALL, BRONZE NON-BLOWOUT STEM, TEFLON SEAT, DOUBLE O-RING STEM SEALS, ZINC-COATED STEEL HANDLE WITH PLASTIC COATED HAND GRIP, 90 DEGREE OPERATION FROM FULL OPEN TO TIGHT SHUT-OFF - STOCKHAM S214-BR-T-T, STOCKHAM S216-BR-T-S OR EQUAL.

47. CHECK VALVES, ROUGH BRASS, REGRINDING BRONZE DISC - STOCKHAM B-345; B-309 OR EQUAL.

48. DOMESTIC WATER PIPING SHALL BE THOROUGHLY FLUSHED OUT AND STERILIZED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.

49. DOMESTIC HOT WATER PIPING LENGTH SHALL NOT EXCEED THE DISTANCE FROM A HEATED WATER SOURCE AS DEFINED BY TABLE C404.5.1 IN THE 2021 INTERNATIONAL ENERGY CODE WITH LOUISIANA AMENDMENTS. A HOT WATER CIRCULATION SYSTEM SHALL BE PROVIDED PER THE IECC 2021 WITH LOUISIANA AMENDMENTS.

50. NATURAL GAS PIPING INSTALLED INDOORS SHALL BE ASTM A53/A53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B. FITTINGS SHALL BE MALLEABLE-IRON THREADED FITTINGS, ASME B16.3, CLASS 150, STANDARD PATTERN. UNIONS SHALL BE ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT, AND THREADED ENDS. NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE STEEL AND HAVE A PROTECTIVE COATING CONSISTING OF A FACTORY-APPLIED, THREE-LAYER COATING OF EPOXY ADHESIVE, JOINT COVER KITS SHALL BE USED AND SHOULD BE EPOXY PAINT, ADHESIVE, AND HEAT-SHRINK PE SLEEVES.

EQUIPMENT

51. HOT WATER HEATERS
A. STORAGE, TANK TYPE HOT WATER HEATERS SHALL BE SET TO A STORAGE TEMPERATURE OF 140 DEG F. ALL LAV SINKS AND HANDWASH SINKS SHALL BE PROVIDED WITH AN ASSE 1070 THERMOSTATIC MIXING VALVE SET TO DELIVER HOT WATER TO FIXTURES AT 110 DEG F.
B. THE COLD WATER BRANCH SERVING EACH HOT WATER HEATER SHALL BE PROVIDED WITH A VALVE LOCATED NEAR THE EQUIPMENT AND SERVING ONLY HOT WATER HEATER.
C. T&P DRAIN PIPE SHALL BE CPVC OR COPPER.

52. THE HOT WATER RECIRCULATION PUMP SHALL BE CONTROLLED BY AN AQUASTAT SET TO 100F AND SET TO AN OWNER PROVIDED SCHEDULE.

LOUISIANA ENERGY CODE PRESCRIPTIVE COMPLIANCE - COMMERCIAL BUILDING SERVICE WATER HEATING

2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C 404	Service Water Heating				
C404.2	Equipment performance efficiency	Water heating equipment energy efficiency	UEF=0.93	Shall meet efficiency requirements of table C404.2 Minimum UEF=0.923	See water heater schedule on sheet P000.
C404.3	Heat traps for hot water storage tanks	Integral or pipe configured heat traps.	Requirement shall be met.	Tank type Hot water heater and hot water storage tanks that have vertical water pipes connecting to the inlet and outlet shall be provided with integral heat traps or pipe configured heat traps at the inlet and outlet water connections.	See details 3 and 6 on sheet P501
C404.4	Piping insulation	Thickness and conductivity requirements for piping insulation.	1" Thickness. Thermal Conductivity to be .24 at 75F Mean rating Temperature.	Piping from a water heater to the termination of the heated water fixture supply pipe shall be insulated in accordance with Table C403.12.3. Conductivity for insulation shall be between 0.21 and 0.28 (BTUxinch)/(hxft^2xF)	See Plumbing Specification. Sheet P001
C404.5	Heated water supply piping	Method 1: Maximum allowable distance of hot water pipe from heated water source, or Method 2: Maximum allowable volume of hot water allowed to remain in piping.	Compliance shall be met via Method 1.	Heated water supply piping shall be in accordance with 1 of 2 methods shown in Section 404.5.1 or C404.5.2: Method 1: The maximum allowbale length of piping shall not exceed the requirements of Table C404.5.1. Method 2: The total volume of hot water to remain in piping shall not exceed 2 ounces for public lavoatories and not more than 0.5 gallons for all other fixtures.	See sheets P201 and P202.
C404.6.1	Circulation systems	Method 1: Controls automatically shutting turning off the pump when there is no demand for hot water and when the water in the circulation loop is at the desired temperature. Method 2: Demand recirculation controls shall start the pump upon a signla from a fixture or appliance.	Compliance shall be met via Method 1.	Method 1: Heated water circulation systems shall be provided with a circulation pump. the system return pipe shall be a dedicated return or cold water supply pipe. Gravity and thermo-syphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall automatically turn off the pump when the water circulation loop is at the desired temperature and there is not a demand for hot water. The controls shall limit the temperature of the water entering the cold water piping to not greater than 104 deg F. Method 2: Demand recirculation water systems shall have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture, or sensing the flow of hot or tempered water to a fixture fitting or appliance	See detail 5 on sheet P502.
C404.6.2	Heat trace systems	Heat trace system controls for hot water	N/A	Electric heat trace systems shall comply with IEEE 515.1. Controls for such systems shall be able to automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. Heat trace shall be arranged to be turned off automatically when there is not a demand for hot water.	N/A
C404.6.3	Controls for hot water storage	Controls for pumps circulating heated water between a hot water storage tank and water heater.	N/A	The controls on pumps that circulate water between a water heater and a heated water storage tank shall limit operation of the pump from heating cycle startup to not greater than 5 minutes after the end of the cycle.	N/A
C404.7	Drain water heat recovery units	Drain water heat recovery units performance requirements	N/A	Units shall comply with CSA B55.1. Potable water side pressure loss shall be less than 10 psi at max design flow. For Group R occupancies, the efficiency of drain water heat recovery units shall be in accordance with CSA B55.1	N/A
C404.8	Energy consumption of pools and permanent spas	Heaters, time switches, and covers	N/A	C404.8.1 Heaters - All heaters shall be controlled by an on-off switch in accordance with section C404.8.1. Operation of switches shall not change the setting of the thermostat and shall be in addition to a circuit breaker for the power to the heater. Gas fired heaters shall not be equipped with continuously burning pilots. C404.8.2 Time Switches - Time switches or other control methods that can automatically turn off and on heaters and pump motors accordingy to a preset schedule shalle be installed for heaters and pump motors. Exception: 1. Where public health standards require 24 hour pump operation. 2. pumps that operate solar and waste heat recovery pool heating systems. C404.8.3 Covers- Outdoor heated pools and permanent spas shall be provided with a vapor retardent cover or other approved vapor retardent means. Exception: Where more than 75 percent of the energy for heating, computed over an operating season of not fewer than 3 calendar months, is from a heat pump or an on-site renewable energy system, covers, or other vapor retardent means shall not be required.	N/A
C404.9	Portable spas	Energy consumption of portable spas	N/A	The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP 14	N/A
C406	Additional Efficiency Requirements				
C406.7.2	Recoverable or renewable water heating	Performance requirements for recoverable or renewable water heating systems	N/A	The building service water heating system shall have one or more of the following that are sized to provide not less than 30% of the building's annual hot water requirements or sized to provide 70% of the building's annual hot water requriements if the building is required to comply with section C403.10.5. 1. Waste heat recovery from service hot water, heat recover chillers, building equipment or process equipment. 2. On site renewable energy water heating system.	N/A
C406.7.3	Efficient fossil fuel water heater	Efficiency requirements for fossil fuel water heating equipment.	N/A	The combined input capicty weighted average equipment rating of all fosil fuel water heating equipment shall not be less than 95% Et or .95 Ef. This options shall receive only half the listed credits for buildings required to comply with section C404.2.1.	N/A
C406.7.4	Heat pump water heater	Performance requirements for heat pump water heaters.	N/A	Where electric resistance heaters are allowed, all service hot water system heating requirements shall be met using heat pump technology with a combined input-capacity weighted average EF of 3.0. Air source heat pump water heaters shall not draw conditioned air from inside of building, except for exhaust air that was to be exhausted to the exterior.	N/A
C408	Maintenance Information and System Commissioning				
C408.2	Mechanical systems and service water-heating systems commissioning and completion requirements	Comissioning requirement for mechanical systems and service water heating systems.	N/A	Prior to the final mechanical and plumbing inspections, the registerd design professional or approved agency shall provide evidence of mechanical systems commissioning and completion. Construction document notes shall clearly indicate provisions for comissioning and completion requirements and are permitted to refer to specifications for further requirements. Copies of all documents shall be given to the owner or owners authorized agent and made available to the code official upon request in accordance with section C408.2.4 and C408.2.5. Exceptions: 1. Mechanical systems and sercive water heating systems in building where the total mechanical equipment capacity is less than 480,000 BTU/h cooling capacity and 600,000 BTU/H combined service water heating and space heating capacity. 2. Systems included in section C403.5 that serve individual dwelling units and sleeping units.	N/A

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CONSTRUCTION DOCUMENTS

REVISIONS

PLUMBING - SPECIFICATIONS AND ENERGY CODE REQUIREMENTS

P001

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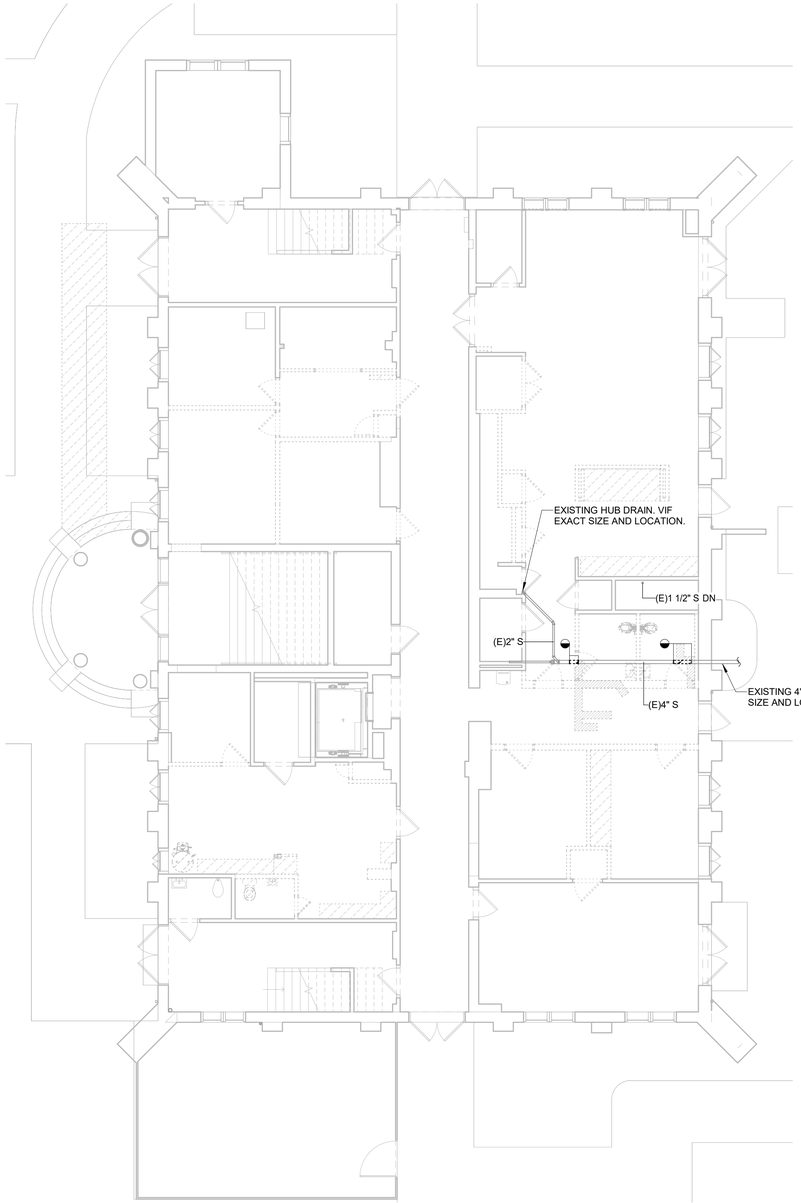
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FUTURE SCOPE

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GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWING FOR DEMO PLANS.
2. CAP ABANDONED WASTE AND VENT PIPING STUB UPS/OUTS AS REQUIRED BASED ON NEW SPACE LAYOUT.
3. CAP AND SEAL ALL ABANDONED SANITARY PIPING AT FLOOR.
4. CAP AND SEAL ALL ABANDONED DOMESTIC WATER PIPING AS REQUIRED BASED ON NEW SPACE LAYOUT.
5. SCOPE EXISTING TO REMAIN UNDERGOUND SANITARY MAINS AND PROVIDE REPORT TO DESIGN TEAM DETAILING LOCATION AND CONDITION OF EXISTING TO REMAIN PIPING.



1 P100 PLUMBING - UNDERGROUND FLOOR - DEMOLITION
1/8" = 1'-0"

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PLUMBING - UNDERGROUND FLOOR PLAN - DEMOLITION

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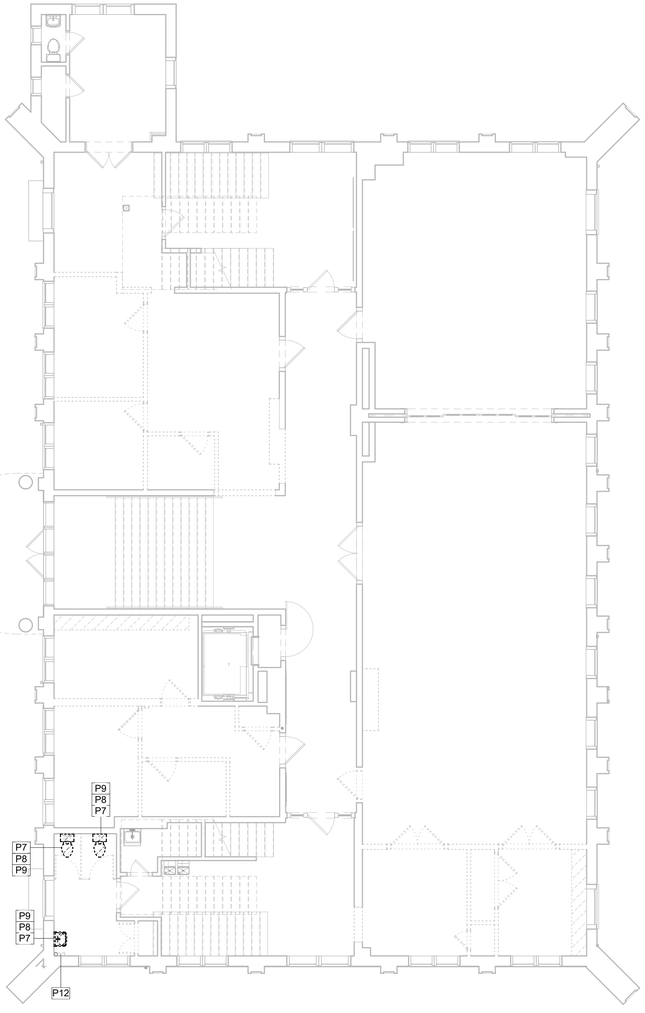
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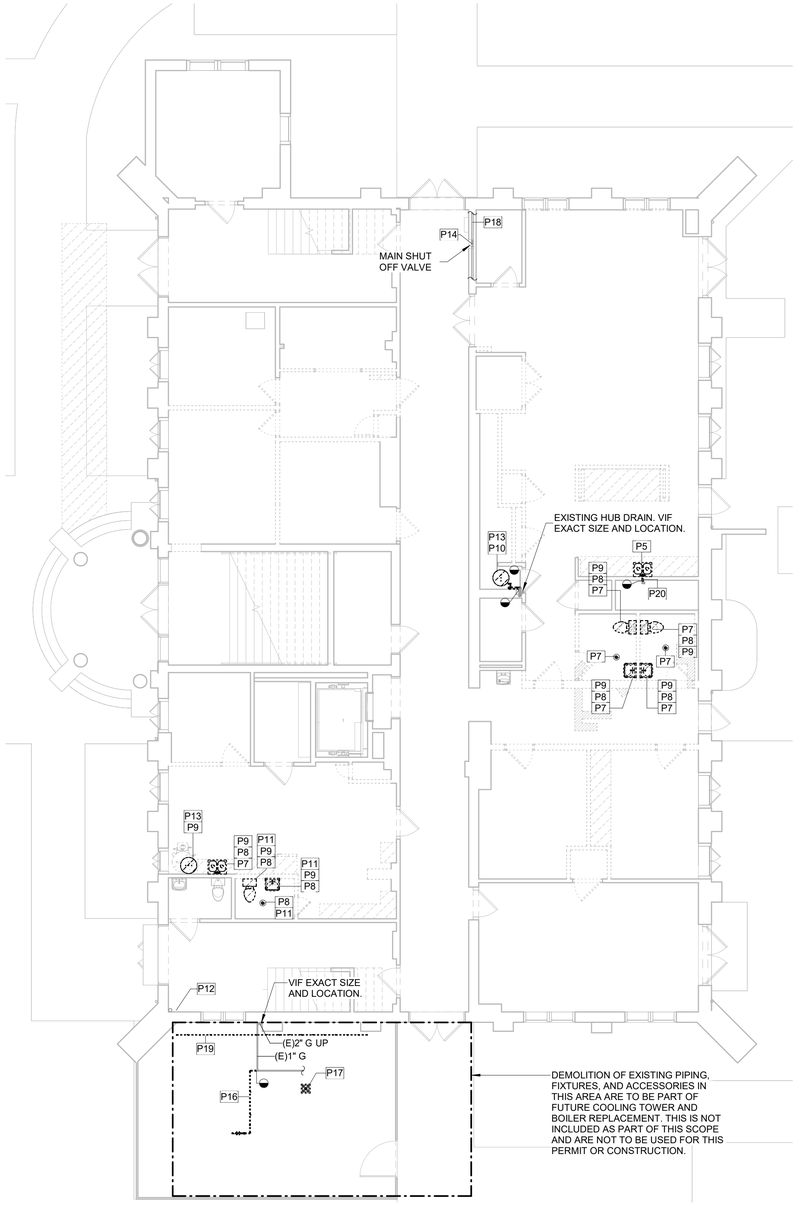
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3. CAP AND SEAL ALL ABANDONED SANITARY PIPING AT FLOOR.
4. CAP AND SEAL ALL ABANDONED SANITARY VENT PIPING IN WALL OR ABOVE FINISHED CEILINGS.
5. CAP AND SEAL ALL ABANDONED DOMESTIC WATER PIPING AT WALL.
6. DEMOLISH ALL CONDENSATE DRAIN RECEPTORS SERVING EXISTING TO BE DEMOLISHED MECHANICAL EQUIPMENT. COORDINATE DRAIN DEMOLITION WITH MECHANICAL CONTRACTOR.

PLUMBING KEYNOTES

NUMBER	DESCRIPTION
P5	DISCONNECT EXISTING SANITARY, SANITARY VENT, AND DOMESTIC WATER PIPING IN WALL. PROTECT EXISTING PIPING DURING DEMOLITION.
P7	DEMOLISH EXISTING SANITARY PIPING BACK TO MAIN RISER. VIF EXACT SIZE AND LOCATION.
P8	DEMOLISH EXISTING SANITARY VENT PIPING BACK TO MAIN RISER. VIF EXACT SIZE AND LOCATION.
P9	DEMOLISH EXISTING DOMESTIC WATER PIPING BACK TO MAIN RISER. VIF EXACT SIZE AND LOCATION.
P10	DEMOLISH AND REMOVE EXISTING DOMESTIC WATER PIPING SERVING DEMOLISHED WATER HEATER BACK TO WHERE SHOWN ON PLAN. VIF EXACT SIZE AND LOCATION.
P11	DEMOLISH EXISTING SANITARY PIPING BACK TO FINISHED FLOOR. PROVIDE GASKETED CLEANOUT OUT COVER.
P12	DEMOLISH EXISTING ABANDONED CW PIPING. VIF EXISTING PIPING IS NOT ACTIVE AND NOT SERVING ACTIVE PLUMBING FIXTURES.
P13	DEMOLISH EXISTING WATER HEAT. VIF EXACT SIZE AND LOCATION.
P14	DEMOLISH EXISTING ACCESS PANEL FOR SHUTOFF VALVE IN ELECTRICAL ROOM. VIF EXACT LOCATION.
P16	DEMOLISH EXSTING GAS PIPING SERVING BOILER. VIF EXACT SIZE AND LOCATION.
P17	DEMOLISH EXISTING DRAIN SERVING MECHANICAL EQUIPMENT. PROTECT EXISTING PIPING SERVING DEMOLISHED DRAIN. VIF EXACT SIZE AND LOCATION.
P18	EXISTING CW SERVICE ENTRANCE. VIF EXACT SIZE AND LOCATION.
P19	DEMOLISH EXISTING CW LINE SERVING MECHANICAL YARD. VIF EXACT SIZE AND LOCATION.
P20	DISCONNECT EXISTING SANITARY, CW, AND HW PIPING SERVING DEMOLISHED SINK AT WALL. PROTECT EXISTING PIPING DURING DEMOLITION.



2 P101 PLUMBING - SECOND FLOOR - DEMOLITION
1/8" = 1'-0"



1 P101 PLUMBING - FIRST FLOOR - DEMOLITION
1/8" = 1'-0"

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PLUMBING - FIRST AND SECOND FLOOR PLAN - DEMOLITION

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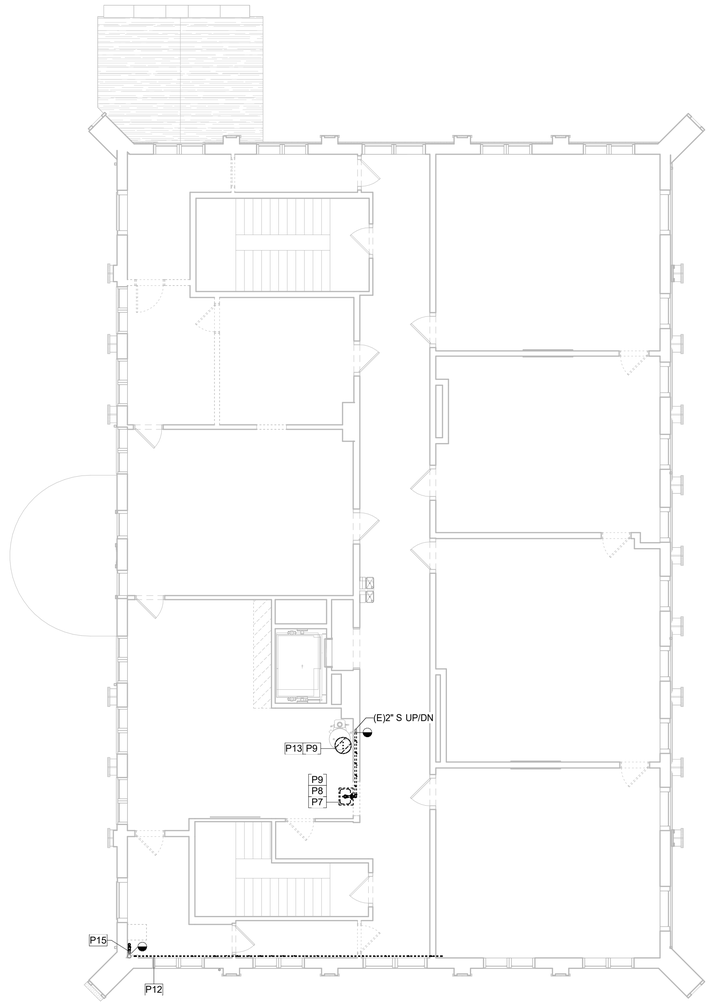
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4. CAP AND SEAL ALL ABANDONED SANITARY VENT PIPING IN WALL OR ABOVE FINISHED CEILINGS.
5. CAP AND SEAL ALL ABANDONED DOMESTIC WATER PIPING AT WALL.
6. DEMOLISH ALL CONDENSATE DRAIN RECEPTORS SERVING EXISTING TO BE DEMOLISHED MECHANICAL EQUIPMENT. COORDINATE DRAIN DEMOLITION WITH MECHANICAL CONTRACTOR.

PLUMBING KEYNOTES

NUMBER	DESCRIPTION
P7	DEMOLISH EXISTING SANITARY PIPING BACK TO MAIN RISER. VIF EXACT SIZE AND LOCATION.
P8	DEMOLISH EXISTING SANITARY VENT PIPING BACK TO MAIN RISER. VIF EXACT SIZE AND LOCATION.
P9	DEMOLISH EXISTING DOMESTIC WATER PIPING BACK TO MAIN RISER. VIF EXACT SIZE AND LOCATION.
P12	DEMOLISH EXISTING ABANDONED CW PIPING. VIF EXISTING PIPING IS NOT ACTIVE AND NOT SERVING ACTIVE PLUMBING FIXTURES.
P13	DEMOLISH EXISTING WATER HEAT. VIF EXACT SIZE AND LOCATION.
P15	CAP AND SEAL ABANDONED SANITARY. VIF EXACT SIZE AND LOCATION.



1 P102 PLUMBING - THIRD FLOOR - DEMOLITION
1/8" = 1'-0"

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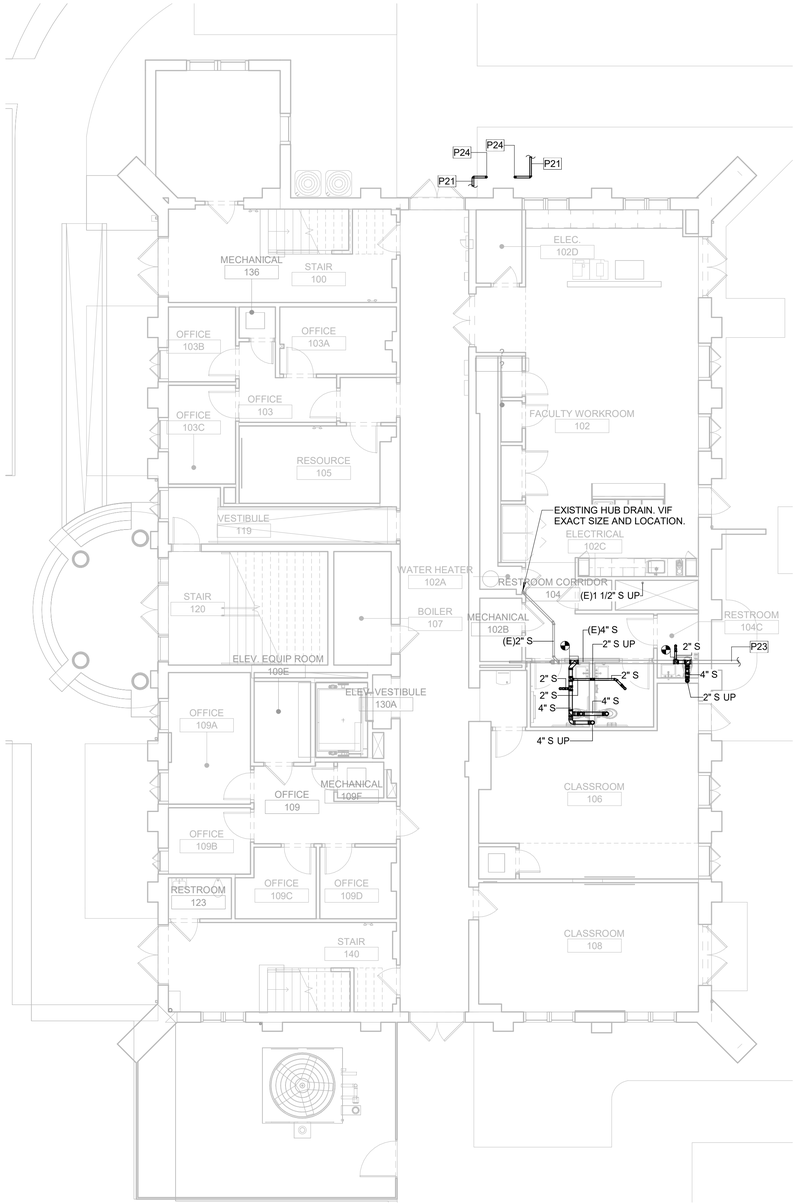
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GENERAL NOTES

1. VIF EXACT SIZE AND LOCATION OF EXISTING UNDERGROUND SANITARY MAIN AND BRANCH PIPING.
2. SEE ARCHITECTURAL PLANS FOR TRENCHING LOCATIONS.
3. SANITARY PIPING 3" AND LARGER SHALL SLOPE 1/8" PER FOOT. SANITARY PIPING SMALLER THAN 3" SHALL SLOPE 1/4" PER FOOT.
4. CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
5. ANY PORTION OF THE SANITARY SYSTEM INSTALLED UNDERGROUND SHALL BE A MINIMUM 2" DIAMETER.
6. SEE PLUMBING FIXTURE SCHEDULE FOR ALL CONNECTION SIZES.
7. FOR PURPOSES OF PRICING, ASSUME 10 FEET OF 4" SCHEDULE 40 PVC PIPING FOR EACH NEW UNDERGROUND SANITARY CONNECTION TO MAIN.
8. VIF EXACT SIZE AND LOCATION OF EXISTING INCOMING CW SERVICE.

PLUMBING KEYNOTES

NUMBER	DESCRIPTION
P21	CONNECT TO EXISTING INCOMING CW SERVICE. VIF EXACT SIZE AND LOCATION. SIZE TO MATCH EXISTING CW SERVICE.
P23	EXISTING INCOMING UG SANITARY SERVICE. VIF EXACT SIZE AND LOCATION.
P24	CW UP TO NEW BFP.



1 P200 PLUMBING - UNDERGROUND
1/8" = 1'-0"

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PLUMBING - UNDERGROUND FLOOR PLAN

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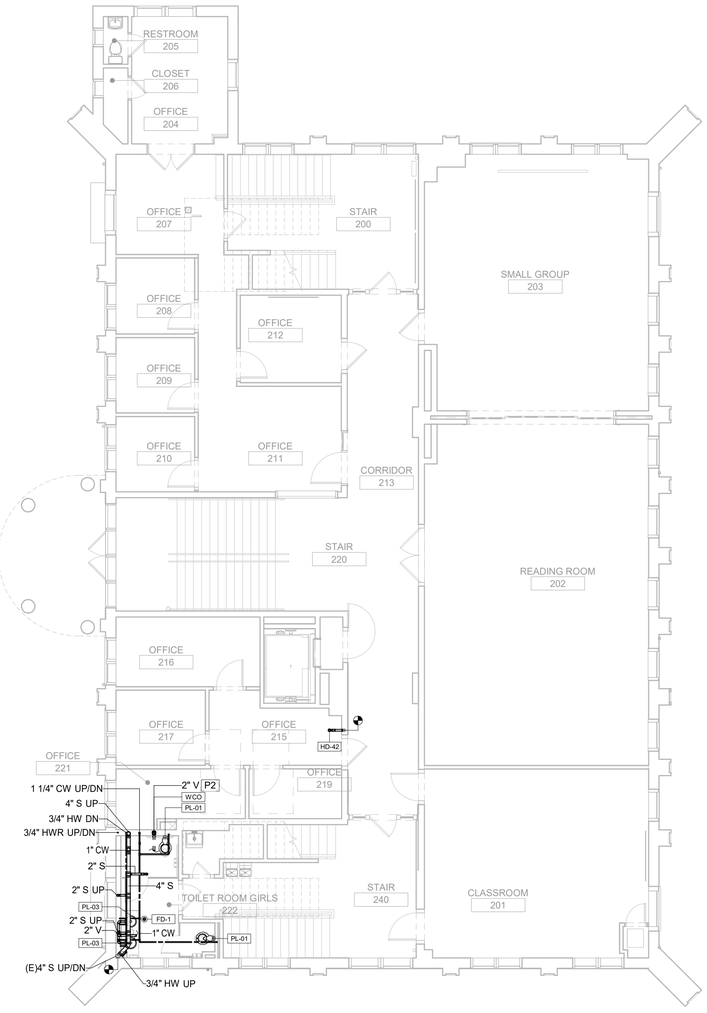
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GENERAL NOTES

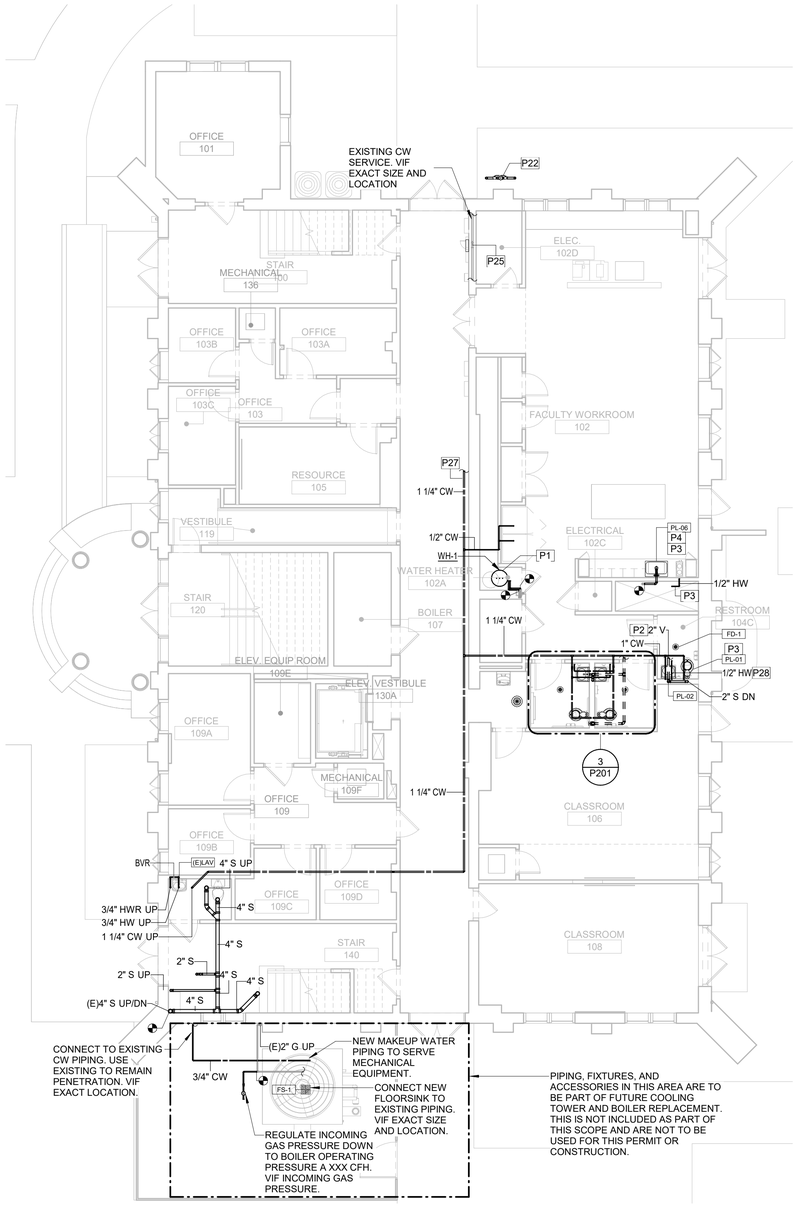
1. VIF EXACT SIZE AND LOCATION OF EXISTING UNDERGROUND SANITARY MAIN AND BRANCH PIPING.
2. VIF EXACT SIZE AND LOCATION OF ALL EXISTING DOMESTIC HOT AND COLD WATER PIPING.
3. VIF EXACT SIZE AND LOCATION OF ALL EXISTING SANITARY VENT RISERS AND BRANCH PIPING.
4. VIF EXACT SIZE AND LOCATION OF EXSTING GAS RISER AND BRANCH PIPING.
5. SEE ARCHITECTURAL PLANS FOR TRENCHING LOCATIONS.
6. FAUCETS/FIXTURES WITH HOSE CONNECTIONS SUPPLYING HOT AND COLD WATER SHALL BE PROVIDED WITH VACUUM BREAKERS AND CHECK VALVES. EITHER INTERNAL OR ON THEIR SUPPLY PIPING.
7. COORDINATE CONDENSATE TERMINATION WITH MECHANICAL CONTRACTOR.
8. SANITARY PIPING 3" AND LARGER SHALL SLOPE 1/8" PER FOOT. SANITARY PIPING SMALLER THAN 3" SHALL SLOPE 1/4" PER FOOT.
9. ALL DOMESTIC HOT, HOT WATER RETURN, AND COLD WATER PIPING, INCLUDING RISERS, INSTALLED IN UNCONDITIONED SPACES, AND ABOVE FINISHED, CEILINGS SHALL BE INSULATED.
10. CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
11. ANY PORTION OF THE SANITARY SYSTEM INSTALLED UNDERGROUND SHALL BE A MINIMUM 2" DIAMETER.
12. SEE PLUMBING FIXTURE SCHEDULE FOR ALL CONNECTION SIZES.

PLUMBING KEYNOTES

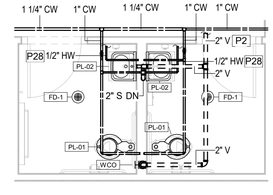
NUMBER	DESCRIPTION
P1	CONNECT NEW HOT WATER HEATER TO EXISTING DOMESTIC WATER AND DRAIN PIPING. VIF EXACT SIZE AND LOCATION.
P2	CONNECT TO EXISTING SANITARY VENT PIPING. VIF EXACT SIZE AND LOCATION.
P3	CONNECT TO EXISTING DOMESTIC WATER PIPING. VIF EXACT SIZE AND LOCATION.
P4	CONNECT TO EXISTING SANITARY PIPING. VIF EXACT SIZE AND LOCATION.
P22	NEW RPZ BFP. VIF SIZE OF EXISTING INCOMING SERVICE. COORDINATE EXACT INSTALLATION LOCATION WITH ARCHITECT. PROVIDE INSULATED BACKLOW PREVENTER BOX.
P25	EXISTING MAIN CW SHUTOFF VALVE VIF EXACT SIZE AND LOCATION. PROVIDE NEW ACCESS PANEL. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECT.
P27	CONNECT TO EXISTING CW MAIN. VIF EXACT SIZE AND LOCATION.
P28	CONNECT TO EXISTING HW PIPING. VIF EXACT SIZE AND LOCATION.



2 PLUMBING - SECOND FLOOR
P201 1/8" = 1'-0"



1 PLUMBING - FIRST FLOOR
P201 1/8" = 1'-0"



3 PLUMBING - FIRST FLOOR ENLARGED RESTROOMS
P201 P201 1/4" = 1'-0"

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FUTURE SCOPE

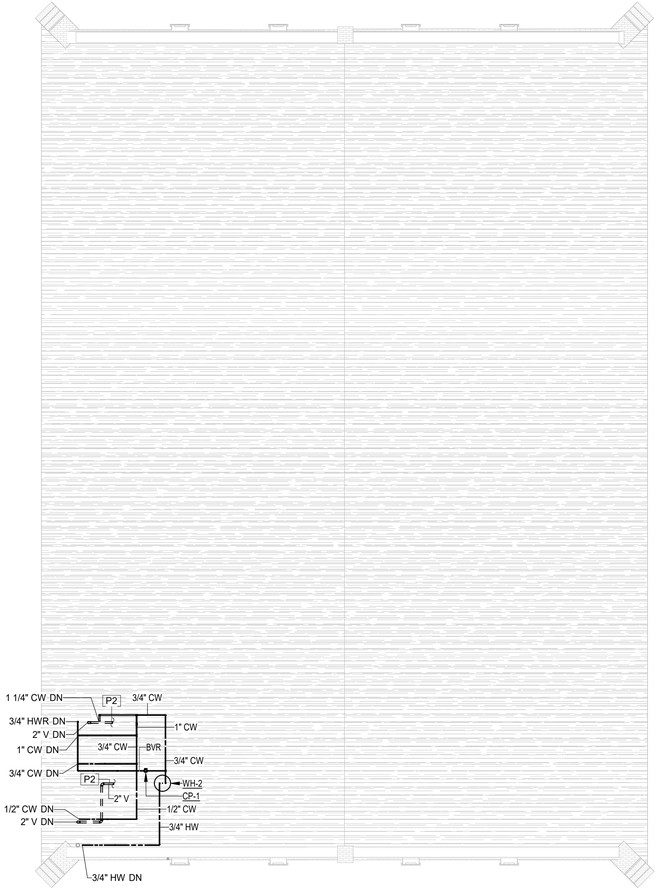
ALL SCOPE INDICATED TO BE (F) FUTURE OR (DF) DEMOLISH FUTURE SHALL BE CONSIDERED FOR INFORMATION PURPOSES ONLY, NOT TO BE USED FOR THIS PERMIT OR CONSTRUCTION.

GENERAL NOTES

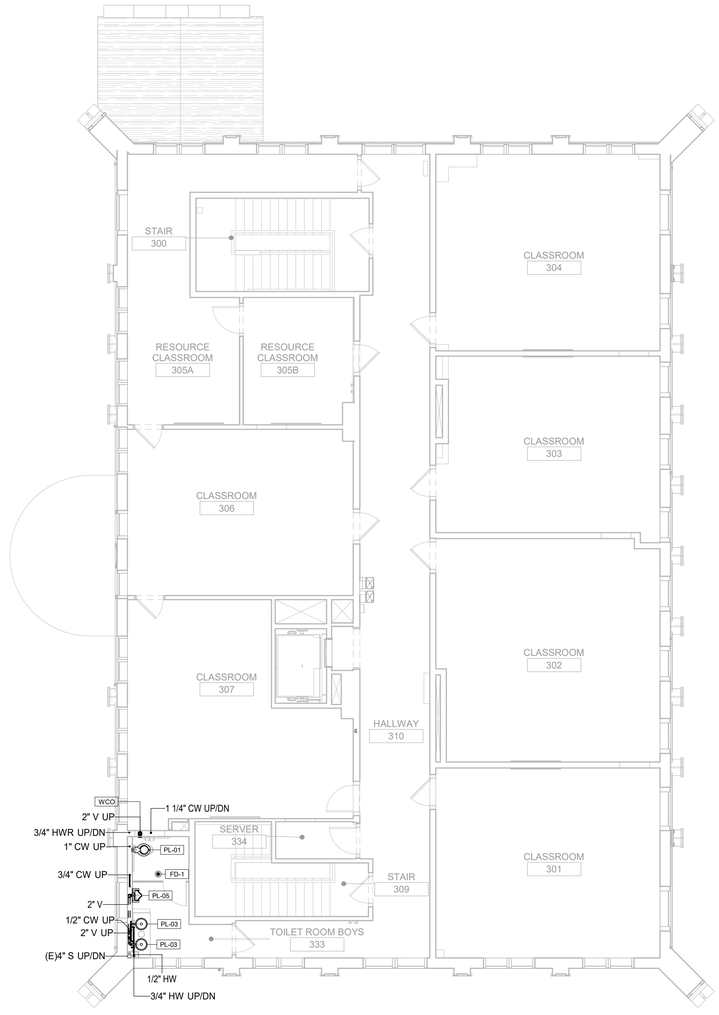
1. VIF EXACT SIZE AND LOCATION OF ALL EXISTING DOMESTIC HOT AND COLD WATER PIPING.
2. VIF EXACT SIZE AND LOCATION OF ALL EXISTING SANITARY VENT RISERS AND BRANCH PIPING.
3. VIF EXACT SIZE AND LOCATION OF EXISTING SANITARY RISER AND BRANCH PIPING.
4. FAUCETS/FIXTURES WITH HOSE CONNECTIONS SUPPLYING HOT AND COLD WATER SHALL BE PROVIDED WITH VACUUM BREAKERS AND CHECK VALVES. EITHER INTERNAL OR ON THEIR SUPPLY PIPING.
5. COORDINATE CONDENSATE TERMINATION WITH MECHANICAL CONTRACTOR.
6. SANITARY PIPING 3" AND LARGER SHALL SLOPE 1/8" PER FOOT. SANITARY PIPING SMALLER THAN 3" SHALL SLOPE 1/4" PER FOOT.
7. ALL DOMESTIC HOT, HOT WATER RETURN, AND COLD WATER PIPING, INCLUDING RISERS, INSTALLED IN UNCONDITIONED SPACES, AND ABOVE FINISHED, CEILINGS SHALL BE INSULATED.
8. CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
9. SEE PLUMBING FIXTURE SCHEDULE FOR ALL CONNECTION SIZES.

PLUMBING KEYNOTES

NUMBER	DESCRIPTION
P2	CONNECT TO EXISTING SANITARY VENT PIPING. VIF EXACT SIZE AND LOCATION.



2 PLUMBING - ROOF
P202 1/8" = 1'-0"



1 PLUMBING - THIRD FLOOR
P202 1/8" = 1'-0"

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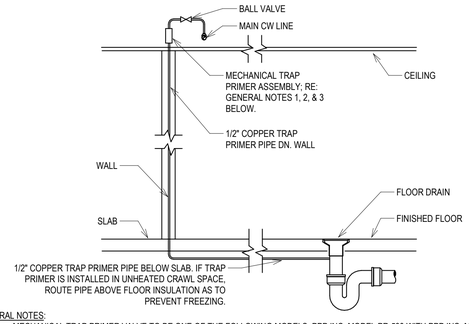
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PLUMBING - THIRD FLOOR PLAN AND ROOF PLAN

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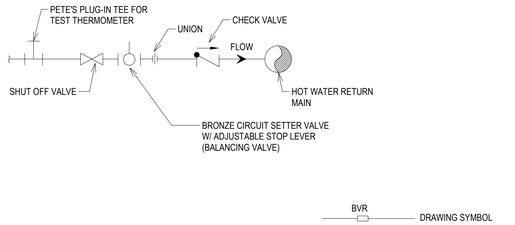
P202

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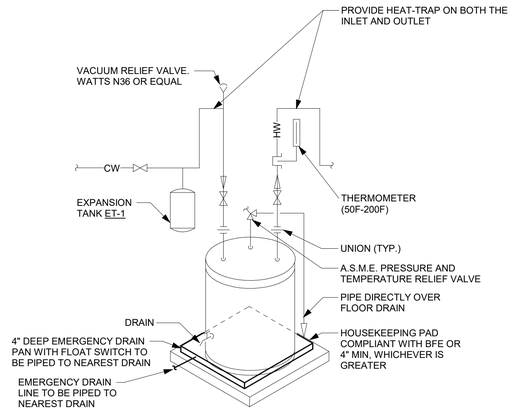
GENERAL NOTES:
1. MECHANICAL TRAP PRIMER VALVE TO BE ONE OF THE FOLLOWING MODELS: PPP INC. MODEL PR-500 WITH PPP INC. MODEL AG-500 AIR GAP FITTING AND PPP INC. MODEL DU-4 DISTRIBUTION UNIT OR MIFAB MODEL M-500 WITH MIFAB MODEL MI-GAP AIR GAP FITTING AND MIFAB MODEL MI-DU DISTRIBUTION UNIT. THE DISTRIBUTION UNIT TO BE PROVIDED AS REQUIRED TO SERVE MULTIPLE DRAINS.
2. (1) MECHANICAL TRAP PRIMER CAN SERVE UP TO (4) INDIVIDUAL DRAINS.
3. IF MECHANICAL TRAP PRIMER IS INSTALLED IN INACCESSIBLE AREA, SUCH AS WITHIN WALL CAVITY OR ABOVE GYPSUM BOARD CEILING, AN ACCESS PANEL OR RECESSED WALL BOX SHALL BE INSTALLED TO ALLOW FOR SERVICE TO MECHANICAL TRAP PRIMER VALVE. MECHANICAL TRAP PRIMER SHALL BE INSTALLED A MINIMUM OF 12" ABOVE FINISHED FLOOR.
4. ALL COPPER PIPING BELOW SLAB SHALL BE SOFT DRAWN WITH NO JOINTS. ALL COPPER PIPING ABOVE SLAB SHALL BE HARD DRAWN COPPER.

1 MECHANICAL TRAP PRIMER
P501 NOT TO SCALE

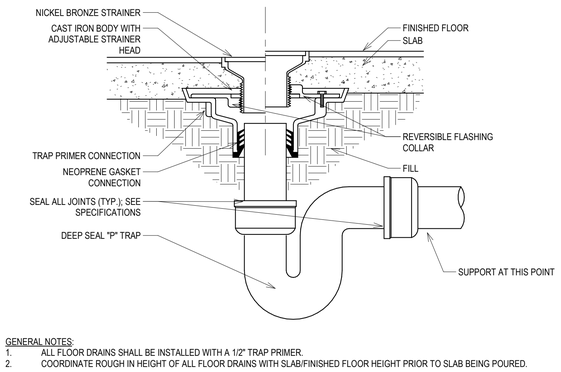


NOTES:
1. CONTRACTOR SHALL BALANCE THE DOMESTIC HOT WATER RETURN SYSTEM AT EACH HOT WATER CIRCULATION BALANCING VALVE RIG.
2. THE CONTRACTOR SHALL PROVIDE WRITTEN BALANCING REPORT TO OWNER DOCUMENTING RESULTS OF BALANCING AND GPM FLOW AT EACH RIG.
3. ALL PLUMBING FIXTURES SHALL BE CLOSED DURING BALANCING.
4. THE SYSTEM SHALL REACH STEADY STATE CONDITION PRIOR TO RECORDING RESULTS.

2 TYPICAL BALANCING VALVE RIG
P501 NOT TO SCALE

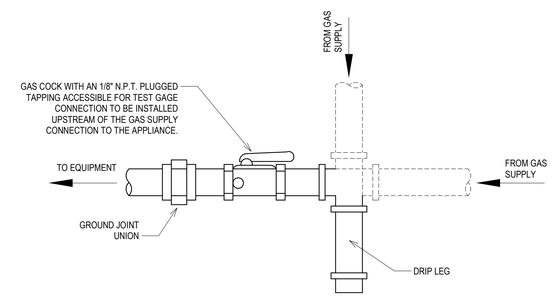


3 ELECTRIC LOW BOY WATER HEATER (WH-1)
P501 NOT TO SCALE

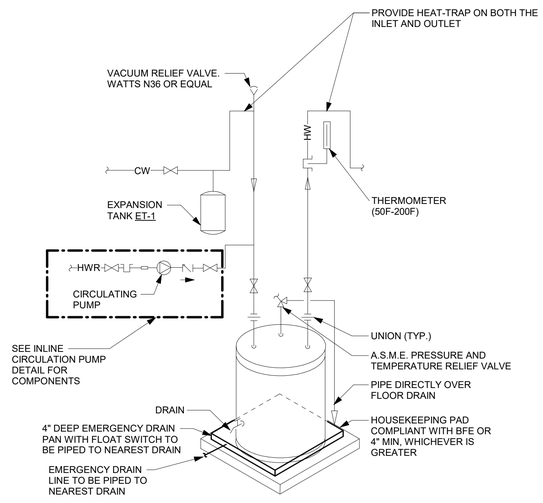


GENERAL NOTES:
1. ALL FLOOR DRAINS SHALL BE INSTALLED WITH A 1/2" TRAP PRIMER.
2. COORDINATE ROUGH IN HEIGHT OF ALL FLOOR DRAINS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING POURED.

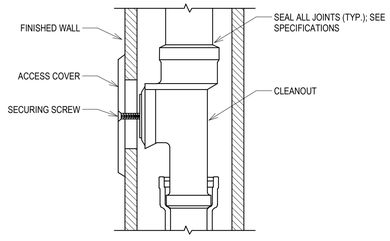
4 FLOOR DRAIN
P501 NOT TO SCALE



5 GAS CONNECTION TO EQUIPMENT
P501 NOT TO SCALE

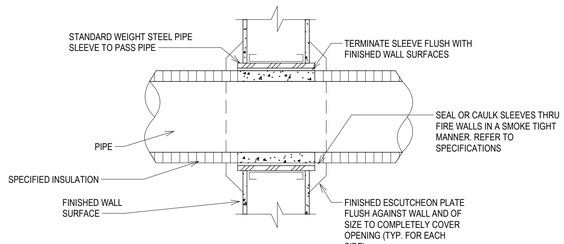


6 ELECTRIC LOW BOY WATER HEATER (WH-2)
P501 NOT TO SCALE



GENERAL NOTES:
1. ALL CLEANOUTS SHALL BE INSTALLED WITH THE FOLLOWING MINIMUM CLEARANCES: 12" MIN. ON CLEANOUTS SMALLER THAN 3" AND 18" MIN. ON CLEANOUTS 3" AND LARGER.

8 WALL CLEANOUT
P501 NOT TO SCALE



NOTES:
1. OMIT ESCUTCHEON PLATES FOR CONCEALED PIPES.

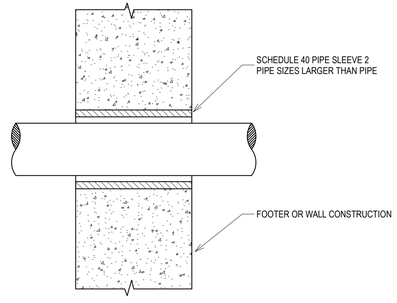
7 PIPE INSTALLATION THRU RATED WALL DETAIL
P501 NOT TO SCALE

SLEEVES AND ESCUTCHEONS

A. SLEEVES FOR PIPING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACE.
B. EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

CUTTING AND PATCHING

A. PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
B. PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF INCH. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.
C.



9 INTERIOR PIPE SLEEVE
P501 NOT TO SCALE

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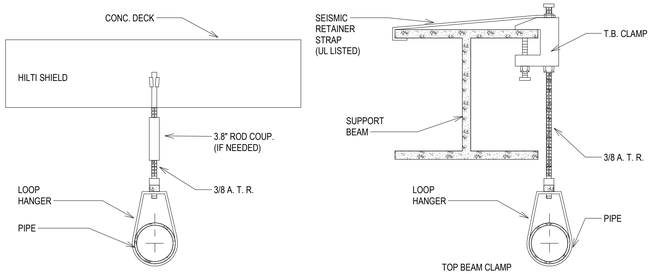
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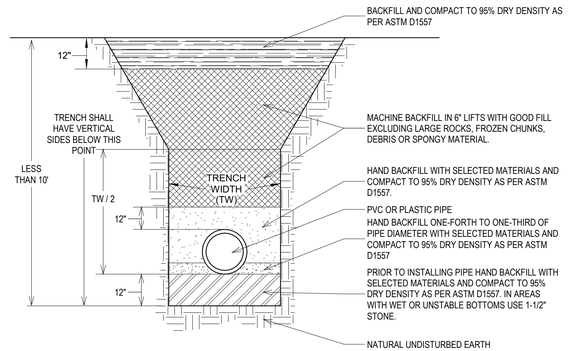
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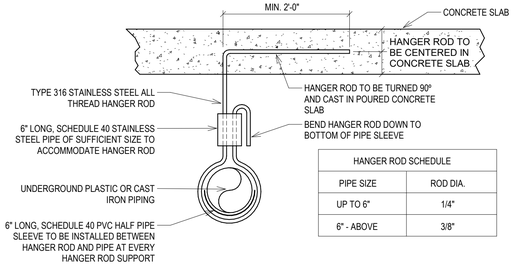


NOTES:
1. ALL EQUIPMENT SHALL BE PROVIDED WITH SIESMIC BRACING.
2. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1".

1 P502 TYPICAL HANGER
NOT TO SCALE



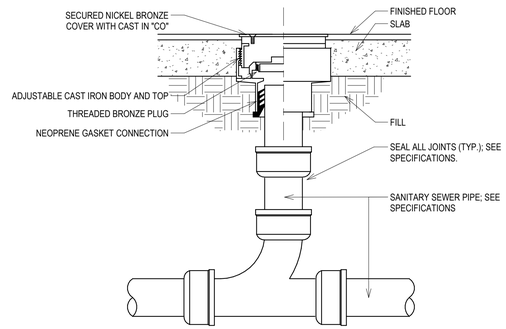
2 P502 PLASTIC PIPE TRENCH AND BEDDING
NOT TO SCALE



HANGER ROD SCHEDULE	
PIPE SIZE	ROD DIA.
UP TO 6"	1/4"
6" - ABOVE	3/8"

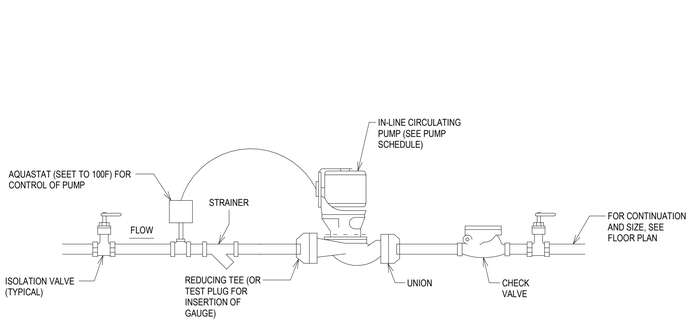
NOTES:
1. PIPE RUNS TO BE SUPPORTED ON MAXIMUM 4'-0" CENTERS AND AT ALL TURNS.
2. ALL HANGER RODS TO BE CONSTRUCTED OF A MINIMUM OF 316 STAINLESS STEEL.

3 P502 UNDERGROUND PLASTIC/CAST IRON PIPE SUPPORT HANGERS
NOT TO SCALE

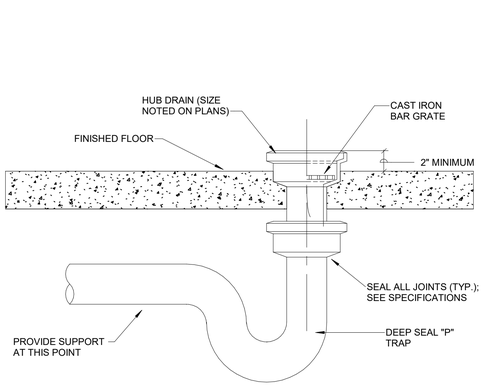


GENERAL NOTES:
1. ALL CLEANOUTS SHALL BE INSTALLED WITH THE FOLLOWING MINIMUM CLEARANCES: 12" MIN. ON CLEANOUTS SMALLER THAN 3" AND 18" MIN. ON CLEANOUTS 3" AND LARGER.
2. CLEANOUTS SHALL BE LOCATED ALONG HORIZONTAL PIPING AT THE FOLLOWING MAXIMUM INTERVALS: 50'-0" MAX. ON PIPING 3" AND SMALLER AND 80'-0" MAX. ON PIPING 4" THROUGH 6".
3. COORDINATE ROUGH IN HEIGHT OF ALL CLEANOUTS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING POURED.

4 P502 INTERIOR CLEANOUT
NOT TO SCALE

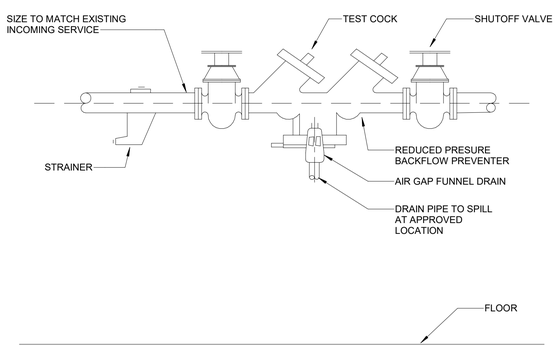


5 P502 IN-LINE CIRCULATION PUMP
NOT TO SCALE



GENERAL NOTES:
1 COORDINATE ROUGH IN HEIGHT OF ALL HUB DRAINS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING POURED.
2 PROVIDE REMOVABLE STRAINER AT OUTLET OF WASTE RECEPTOR IN ACCORDANCE WITH 2021 IPC.

6 P502 HUB DRAIN
NOT TO SCALE



GENERAL NOTES:
1. BACKFLOW ASSEMBLY MUST BE TESTED BY A CERTIFIED TESTING AGENT.
2. BACKFLOW ASSEMBLY MUST HAVE SEAL OF APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS, AS WELL AS APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.
3. PROVIDE MANUFACTURER APPROVED INSULATED BOX.
4. FOR ELEVATED INSTALLATIONS EXCEEDING 5' ABOVE GRADE, PROVIDE A PERMANENT PLATFORM FOR SERVICING AND INSTALLATION.
5. PROVIDE ACCESS TO BACKFLOW PREVENTER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

7 P502 REDUCED PRESSURE BACKFLOW ASSEMBLY
NOT TO SCALE

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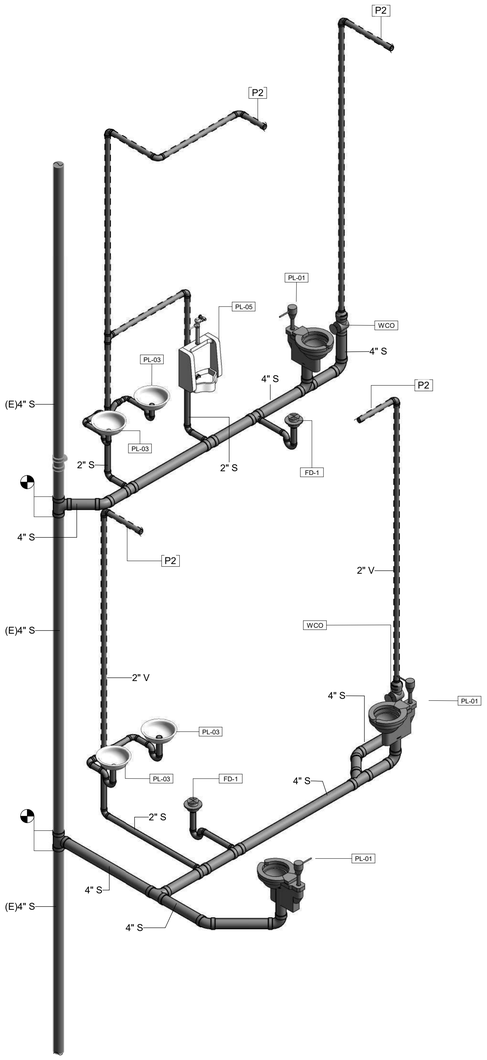
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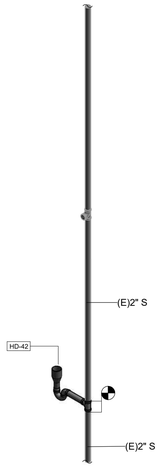
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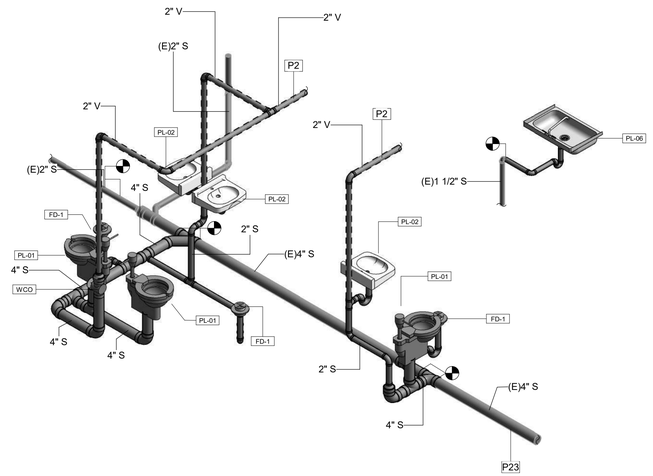


1 SANITARY RISER DIAGRAM
P701



PLUMBING KEYNOTES

NUMBER	DESCRIPTION
P2	CONNECT TO EXISTING SANITARY VENT PIPING. VIF EXACT SIZE AND LOCATION.
P23	EXISTING INCOMING UG SANITARY SERVICE. VIF EXACT SIZE AND LOCATION.



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(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF MECHANICAL DRAWINGS

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE 2021, INTERNATIONAL MECHANICAL CODE 2021 , AND 2021 INTERNATIONAL ENERGY CODE, AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
2. ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW.
3. ALL PIPING AND DUCTWORK SHALL BE SUSPENDED FROM BUILDING STRUCTURE ONLY, EXCEPT AS SPECIFICALLY ALLOWED IN THE SPECIFICATIONS. HVAC CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS NECESSARY TO SUPPORT PIPES AND DUCTS FROM BUILDING STRUCTURE. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE THE SOLE DETERMINANT AS TO PERMISSIBILITY OF HANGING NEW WORK FROM BUILDING STRUCTURE.
4. PIPING AND DUCTWORK PROVIDED UNDER THIS CONTRACT SHALL BE COORDINATED UNDER THIS CONTRACT WITH WORK BEING PROVIDED BY OTHER TRADES.
5. FINAL LOCATION OF ALL CEILING DIFFUSERS, RETURN REGISTERS, SUPPLY/RETURN GRILLES, AND CEILING GRILLES SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. QUANTITIES OF THESE DEVICES SHALL BE PROVIDED AS SHOWN ON THE VAC DRAWINGS. ANY DISCREPANCIES BETWEEN THE HVAC DRAWINGS AND THE ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION PRIOR TO BID.
6. INSTALL ALL DUCTWORK IN STRICT ADHERENCE TO THE CEILING HEIGHTS INDICATED ON THE ARCHITECT'S DRAWINGS. CONSULT WITH OTHER CONTRACTORS AND IN CONJUNCTION WITH THE OTHER CONTRACTORS, ESTABLISH THE NECESSARY SPACE REQUIREMENTS FOR EACH TRADE.
7. THE SHEET METAL DUCTWORK SHALL, WHETHER INDICATED OR NOT, RISE AND/OR DROP AND/OR CHANGE IN SHAPE TO CLEAR ANY AND ALL OTHER DUCTWORK, CONDUITS, LIGHTING FIXTURES, PLUMBING AND HEATING/COOLING MAINS TO MAINTAIN THE DESIRED CEILING HEIGHTS AND TO PROVIDE ADEQUATE MAINTENANCE ROOM AND HEADROOM IN MECHANICAL EQUIPMENT ROOMS. THE DRAWINGS, IN GENERAL, DO NOT SHOW ALL RISES, DROPS AND DUCT TRANSITIONS REQUIRED. THE DRAWINGS SHOW GENERAL ROUTING REQUIREMENTS ONLY.
8. SEE SPECIFICATION FOR DUCTS REQUIRED TO BE ACOUSTICALLY LINED. ALSO, LINE DUCTS WHERE SPECIFICALLY INDICATED ON THE PLANS. DIMENSIONS GIVEN ON PLANS FOR LINED DUCTS ARE INSIDE CLEAR DIMENSIONS. INCREASE SIZE OF SHEET METAL DUCT TO PROVIDE THE SPECIFIED INSIDE CLEAR DIMENSION WITH ACOUSTICAL LINING ADDED.
9. ALL BIDDERS ARE REQUIRED TO REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL MEP/FP COMPONENTS FOR FULL INTEGRATION INTO ARCHITECTURAL DESIGN. BIDDERS ARE TO IMMEDIATELY CALL TO THE ARCHITECT'S ATTENTION ANY DISCREPANCIES IN QUANTITIES, TYPES AND SCOPE FOR ALL DISCIPLINES/TRADES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AND NEW CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. ANY DAMAGE CAUSED BY, OR DURING THE EXECUTION OF THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR TO FORWARD WRITTEN MANUFACTURER'S OPERATIONS MANUAL OUTLINING ALL EQUIPMENT FURNISHED, APPROVED SEQUENCE OF OPERATIONS, APPROVED AS-BUILT WIRING DIAGRAMS, APPROVED AS-BUILT SHEET METAL SHOP DRAWINGS, COPIES OF SERVICE CONTRACT(S), CONTRACTOR'S WARRANTY ON INSTALLATION, AND MANUFACTURER'S WARRANTY ON EQUIPMENT SUPPLIED. CONTRACTOR SHALL CLEARLY LABEL AND IDENTIFY REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS ON TITLE PAGE FOR ALL PIECES OF EQUIPMENT ON THE JOB. TWO (2) BOUND COPIES SHALL BE PROVIDED TO OWNER AND ONE PDF COPY EMAILED. DOCUMENTS TO BE PROVIDED WITHIN THIRTY (30) DAYS OF FINISHING THE JOB.
12. CONTRACTOR SHALL DEMONSTRATE TO OWNER'S OPERATING PERSONNEL AND INSTRUCT THEM IN THE PROPER OPERATION OF ALL HVAC EQUIPMENT AND SYSTEMS.
13. EQUIPMENT, MATERIALS AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTED COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL KEEP THE WORK IN GOOD REPAIR FOR ONE YEAR AFTER THE DATE OF FINAL APPROVAL. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, CORRECT AND REPAIR PROMPTLY ANY AND ALL BREAKS, FAILURES OR WEAR DUE TO FAULTY MATERIALS, WORKMANSHIP OR EQUIPMENT, AND ALL SETTLEMENTS OF SURFACE THAT MAY OCCUR DURING THAT PERIOD.
14. REVIEW OF SHOP DRAWINGS BY ENGINEER SHALL BE LIMITED TO ONE REVIEW, AND A SECOND REVIEW OF ANY REQUIRED RESUBMITTED DATA. IF ENGINEER IS REQUIRED TO RETURN SHOP DRAWINGS FOR A THIRD (OR MORE) SUBMITTAL AND REVIEW, CONTRACTOR IS LIABLE FOR PAYING ENGINEER FOR TIME SPENT ON SUBSEQUENT REVIEWS AS PER THE ENGINEER'S STANDARD HOURLY RATE SCHEDULE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS FOR INSTALLATION, CONNECTION, EXTENSION OR MODIFICATIONS TO ALL UTILITY SERVICES WITH RESPECTIVE PROVIDERS.
16. SAFETY ASPECTS OF THE WORK ARE EXCLUSIVELY THE RESPONSIBILITY OF THE CONTRACTOR. ALL MANNER OF DERRICKS, MACHINERY, SCAFFOLDING, AND TOOLS OF EVERY DESCRIPTION REQUIRED FOR THE PROPER EXECUTION OF THE WORK SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THESE FACILITIES SHALL BE FURNISHED IN ACCORDANCE WITH ALL SAFETY CODES. CONTRACTOR SHALL REMOVE THEM PROMPTLY FROM THE SITE WHEN THEY ARE NO LONGER REQUIRED. RIGGING AND HOISTING IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. RECORD AS-BUILT DRAWINGS SHALL BE SUPPLIED BY THE CONTRACTOR AFTER COMPLETION OF THE WORK SHOWING ANY ALTERATIONS, ADDITIONS AND/OR DELETIONS TO THE SYSTEM INSTALLED.
17. PIPING AND EQUIPMENT DRAWN DIAGRAMMATICALLY. COORDINATE ROUTING AND INSTALLATION WITH ALL OTHER TRADES. REFRIGERANT PIPE SIZING AND ROUTING SHALL BE PER MANUFACTURER'S INSTALLATION SPECIFICATIONS. MC SHALL COORDINATE ALL FINAL CONNECTIONS TO EQUIPMENT AND COORDINATE SERVICE/ACCESS REQUIREMENTS WITH CEILING MOUNTED DEVICES.
18. ROUTE HVAC UNIT CONDENSATE DRAIN LINE TO FLOOR DRAIN WITHIN MECHANICAL CLOSET. SEE PLUMBING PLANS FOR FLOOR DRAIN LOCATIONS.
19. SPLIT SYSTEM PIPING LAYOUT IS SHOWN AS SINGLE LINE FOR GRAPHICAL VISIBILITY. EACH LINE FROM CU TO INDOOR UNIT REPRESENTS INDIVIDUAL REFRIGERANT LINES.
20. DUCT SIZES NOT CALLED OUT SHALL BE DETERMINED BASED ON 0.08" S.P. LOSS OR LESS PER 100 FT. OF LENGTH.

GENERAL SYMBOLS/ABBREVIATIONS

SYMBOL	ABBR	DESCRIPTION
F / M		SECTION NO. / SECTION VIEW SHEET NO.
M#		SHEET KEY NOTES
	POC	POINT OF CONN.(CONN. NEW TO EXISTING)
	POD	POINT OF DISCONNECTION
		ARROW INDICATES DIRECTION OF FLOW
	AD	ACCESS DOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AMB	AMBIENT
	BHP	BRAKE HORSEPOWER
	BTUH	BRITISH THERMAL UNIT PER HOUR
	COP	COEFFICIENT OF PERFORMANCE
	CV	CONSTANT VOLUME
	(D)	EXISTING ITEM TO BE DEMOLISHED
	(DF)	EXISTING ITEM FOR FUTURE DEMOLITION
	dB	DECIBEL
	DB	DRY BULB
	DDC	DIRECT DIGITAL CONTROL
	DEFL	DEFLECTION
	DIA	DIAMETER
	DN	DOWN
	DWG	DRAWING
	(E)	EXISTING ITEM TO REMAIN
	EA	EACH
	EER	ENERGY EFFICIENT RATIO
	ENT	ENTERING
	(F)	FUTURE SCOPE
	°F	DEGREE FAHRENHEIT
	FPI	FINS PER INCH
	FPM	FEET PER MINUTE
	FT WC	FEET WATER COLUMN
	GAL	GALLON
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GRD	GRILLES, REGISTERS, DIFFUSERS
	HP	HORSEPOWER
	HZ	HERTZ
	IN WC	INCH WATER COLUMN
	KW	KILOWATTS
	LBS	POUNDS
	LVG	LEAVING
	MAX	MAXIMUM
	MBH	THOUSAND BTUH
	MCA	MINIMUM CIRCUIT AMPACITY
	MFS	MAXIMUM FUSE SIZE
	MIN	MINIMUM
	MOCP	MAXIMUM OVER CURRENT PROTECTION
	NC	NOICE CRITERIA
	NTS	NOT TO SCALE
	OC	ON CENTER
	PD	PRESSURE DROP/DIFFERENTIAL
	PRESS	PRESSURE
	PSIG	POUNDS PER SQUARE INCH GUAGE
	QTY	QUANTITY
	R	REMOVE
	RH	RELATIVE HUMIDITY
	RLA	RUNNING LOAD AMP
	RPM	REVOLUTIONS PER MINUTE
	SPECS	SPECIFICATIONS
	SQ	SQUARE
	SQ FT	SQUARE FEET
	SS	STAINLESS STEEL
	TOP	TOP OF PIPE (AFF)
	TYP	TYPICAL
	VEL	VELOCITY
	VIF	VERIFY IN FIELD
	WB	WET BULB
	W/	WITH
	W/O	WITHOUT

EQUIPMENT ABBREVIATIONS

SYMBOL	ABBR	DESCRIPTION
	AF	AFTER FILTER
	AHU	AIR HANDLING UNIT
	B	BOILER
	BB	BASEBOARD
	CAV	CONSTANT AIR VOLUME
	CC	COOLING COIL
	CH	CHILLER
	CP	CONDENSATE PUMP
	EF	EXHAUST FAN
	FCU	FAN COIL UNIT
	FF	FINAL FILTER
	GV	GRAVITY VENTILATER
	HC	HEATING COIL
	MUA	MAKE-UP AIR UNIT
	MCC	MOTOR CONTROL CENTER
	P	PUMP
	RF	RETURN FAN
	RTU	ROOFTOP UNIT
	RV	ROOF VENTILATOR
	SF	SUPPLY FAN
	ST	SOUND TRAP
	VAV	VARIABLE AIR VOLUME
	VFD	VARIABLE FREQUENCY DRIVE

OA TABLE (ASHRAE 62.1, 2019)

SYSTEM NAME AND NUMBER	CONDITION ANALYZED (IMPACTS Ez)	OCCUPANCY CATEGORY	ZONE FLOOR AREA Az [SQ FT]	ARE YOU USING DEFAULT VALUE FOR ZONE POPULATION?	ZONE POPULATION Pz [PEOPLE]	ZONE AIR DISTRIBUTION EFFECTIVEMESS Ez	ZONE OUTDOOR AIRFLOW Voz [CFM]	OUTDOOR AIR INTAKE FLOW PROVIDED (MEASURED OR DESIGN) [CFM]
WSHP-1-1	HEATING	OFFICE SPACE	453	NO	5	0.80	65	65
WSHP-1-3	HEATING	OFFICE SPACE	447	NO	5	0.80	65	65
FCU-2-2	HEATING	OFFICE SPACE	592	NO	5	0.80	75	75
WSHP-2-1	HEATING	OFFICE SPACE	462	NO	5	0.80	65	65

HVAC DUCTWORK/DAMPERS

SYMBOL DOUBLE	SYMBOL SINGLE	DESCRIPTION
		EXISTING DUCTWORK (LIGHT SOLID LINE)
		DEMOLISHED DUCTWORK (DARK DASHED LINE)
		NEW DUCTWORK (DARK SOLID LINE)
		SUPPLY DUCT UP
		RETURN DUCT UP
		EXHAUST DUCT UP
		SUPPLY DUCT DOWN
		RETURN DUCT DOWN
		EXHAUST DUCT DOWN
		TRANSITION-RECT. TO RECT. OR ROUND TO ROUND
		TRANSITION-RECT. TO ROUND
		VANED ELBOW
		CAPPED DUCTWORK
(1L)	(1L)	DUCT W/ INTERNAL LINING (LINING THICKNESS) [IN.]

SYMBOL DOUBLE	SYMBOL SINGLE	ABBR.	DESCRIPTION
		VD / COD	MANUAL VOLUME DAMPER / CABLE OPERATED VOLUME DAMPER
		FD/AD	FIRE DAMPER WITH ACCESS DOOR
		SD	SMOKE DAMPER
		FSD/AD	FIRE/SMOKE DAMPER WITH ACCESS DOOR CONTROLLED BY DUCT SMOKE DECTECTOR
(C)	(C)	FSD/AD (C)	FIRE/SMOKE DAMPER WITH ACCESS DOOR CONTROLLED BY AREA SMOKE DETECTOR
		BD	BACKDRAFT DAMPER
		MD	MECHANICAL DAMPER

HVAC PIPING SYMBOLS

SYMBOL	ABBR	DESCRIPTION
		PIPE TURNED DOWN
		PIPE TURNED UP
	SOV	SHUT-OFF VALVE

NATURAL VENTILATION (LMC 402.2, 2021)

ROOM NAME	FLOOR AREA [SQ. FT.]	4% AREA [SQ. FT.]	OPERABLE AREA [SQ. FT.]
CLASSROOM 106	406	16.2	55.2
CLASSROOM 108	354	14.2	33.3
CLASSROOM 201	517	20.7	31.9

HVAC SYMBOLS/ABBREVIATIONS

SYMBOL	ABBR	DESCRIPTION
	CD	SUPPLY DIFFUSER-4-WAY THROW
	CD	SUPPLY DIFFUSER-3-WAY THROW
	CD	SUPPLY DIFFUSER-2-WAY THROW
	CD	SUPPLY DIFFUSER-1-WAY THROW
	LD-H	SUPPLY SLOT DIFFUSER (HORIZONTAL PATTERN)
	LD-J	SUPPLY SLOT DIFFUSER (JET PATTERN)
	CR/CG	RETURN/EXHAUST AIR GRILLE
		LOW PRESSURE FLEXIBLE DUCT
	AP	CEILING ACCESS PANEL
		FLEXIBLE DUCT CONNECTION
	WL	EXTERIOR WALL LOUVER (UNDER ARCH SECTION)
UC	UC	UNDERCUT DOOR (UNDER ARCH SECTION)
D/L	D/L	DOOR LOUVER (UNDER ARCH SECTION)
L/D	L/D	LOUVER DOOR FULL HEIGHT. (UNDER ARCH SECTION)
		RETURN/ EXHAUST AIR FLOW SYMBOL
		SUPPLY AIR FLOW SYMBOL
UP		RISE IN DIRECTION OF AIRFLOW
DN		DROP IN DIRECTION OF AIRFLOW
	AL	ACOUSTICAL LINING
	BOD	BOTTOM OF DUCT (AFF)
	CFM	CUBIC FEET PER MINUTE
	CO	CLEAN OUT
	DP	DISCHARGE PLENUM
	EA	EXHAUST AIR
	ESP	EXTERNAL STATIC PRESSURE
	MA	MAKE-UP AIR
	OA	OUTSIDE AIR
	OED	OPEN ENDED DUCT
	RA	RETURN AIR
	SA	SUPPLY AIR
	SCFM	STANDARD AIR CUBIC FEET PER MINUTE
	SP	STATIC PRESSURE
	TG	TRANSFER GRILLE
	TOD	TOP OF DUCT (AFF)
	TSP	TOTAL STATIC PRESSURE
	WMS	WIRE MESH SCREEN

CONTROLS

SYMBOL	ABBR	DESCRIPTION
CO_2		CARBON DIOXIDE SENSOR
CO		CARBON MONOXIDE SENSOR
A	A	CONTROL AIR (PNEUMATIC)
S		DUCT MOUNTED SMOKE DETECTOR
(E) T	(E) T	EXISTING THERMOSTAT
FS	FS	FLOW SWITCH
T	T	NEW THERMOSTAT
T	T	EXISTING THERMOSTAT TO DEMOLISH
PS	PS	PRESSURE SWITCH
HS		SPACE HUMIDITY SENSOR
H		SPACE HUMIDISTAT
PS		SPACE PRESSURE SENSOR
TS		SPACE TEMPERATURE SENSOR
P		STATIC PRESSURE SENSOR
TC		TIME CLOCK

MECHANICAL/PLUMBING//ELECTRICAL COORDINATION REQUIREMENTS

FOR MECHANICAL AND PLUMBING EQUIPMENT AS INDICATED ON M,FP, AND P DRAWINGS, THE RESPECTIVE CONTRACTORS SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO CONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS. THIS SHALL INCLUDE COORDINATION FOR COMPLETE WIRING, STARTERS, AND DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

DEMOLITION NOTES

1. DEMOLITION OF HVAC ITEMS SHALL BE PERFORMED UNDER THE HVAC CONTRACT.
2. DEMOLISH ALL EQUIPMENT, FIXTURES AND/OR MISCELLANEOUS ARTICLES IN THEIR ENTIRETY INCLUDING AUXILIARY EQUIPMENT, PIPING, WIRING, CONDUIT AND DUCTWORK. REFER TO DRAWINGS FOR DEMOLITION SCOPE.
3. MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS SHALL NOT BE ALLOWED TO ACCUMULATE ON THE FLOORS AND ROOF SURFACES, EXTERIOR GRADE SURFACES OR OTHER PARTS OF THE PREMISES, AND SHALL BE PROMPTLY REMOVED AND DISPOSED OF AWAY FROM THE PREMISES.
4. INCLUDE ALL DEMOLITION OF SYSTEMS AND COMPONENTS WHERE SYSTEMS SHALL BE REPLACED BY NEW WORK. REFER TO THE DRAWINGS AND SPECIFICATIONS FOR THE SCOPE OF NEW AND RECONNECTED WORK. THE INTENT OF THIS REQUIREMENT IS TO HAVE THE CONTRACTOR DISCONNECT, DEMOLISH AND REMOVE ALL EXPOSED AND CONCEALED WORK.
5. REMOVAL OF EQUIPMENT, PIPING AND DUCTWORK SHALL INCLUDE ALL HANGERS & SUPPORT ASSOCIATED WITH THE EQUIPMENT, PIPING AND DUCTWORK TO BE REMOVED.
6. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS IN THE TENANT GUIDELINES, AS APPLICABLE.

BASE FLOOD ELEVATION NOTES

1. FOR CONSTRUCTION IN FLOOD ZONE X: ALL MEP/FP EQUIPMENT THAT IS NOT SUBMERSIBLE SHALL BE INSTALLED AT A MINIMUM ELEVATION OF 3 FEET ABOVE THE STREET CURB. IF NO CURB EXISTS, THE CENTERLINE OF THE HIGHEST ADJACENT STREET SHALL BE USED AS DATUM.
2. FOR CONSTRUCTION IN FLOOD ZONES A AND V: ALL MEP/FP EQUIPMENT THAT IS NOT SUBMERSIBLE SHALL BE INSTALLED AT A MINIMUM ELEVATION OF 3 FEET ABOVE THE STREET CURB, OR 1 FOOT ABOVE THE BASE FLOOD ELEVATION AS DEFINED BY NEW ORLEANS' FLOOD INSURANCE RATE MAP (FIRM), WHICHEVER ELEVATION IS GREATER. IF NO CURB EXISTS, THE CENTERLINE OF THE HIGHEST ADJACENT STREET SHALL BE USED AS DATUM.

DESIGN PARAMETERS

	SUMMER	WINTER
OUTDOOR	95 DB/80 WB	30 DB
INDOOR	75 DB/55% RH	70 DB

HVAC SHEET INDEX

SHEET NUMBER	SHEET NAME
M000	HVAC TITLE SHEET
M001	ENERGY CODE REQUIREMENTS
M002	ENERGY CODE REQUIREMENTS
M003	ENERGY CODE REQUIREMENTS
M004	HVAC SPECIFICATIONS
M101	HVAC - FIRST AND SECOND FLOOR PLAN - DEMOLITION
M102	HVAC - THIRD FLOOR PLAN - DEMOLITION
M201	HVAC - FIRST AND SECOND FLOOR PLAN
M202	HVAC- THIRD FLOOR PLAN AND ROOF PLAN
M401	HVAC SCHEDULES
M402	HVAC SCHEDULES
M501	HVAC DETAILS
M502	HVAC DETAILS
M503	HVAC DETAILS
M504	HVAC DETAILS

STUDIOWEST

2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 22003

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STATE OF LOUISIANA — LOREY A. FLICK — License No. 0041025 — PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

ISSUE DATE | 1 AUGUST 2025

CONSTRUCTION DOCUMENTS

REVISIONS

HVAC TITLE SHEET

SYNERGY CONSULTING ENGINEERS
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M000

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LOUSIANA ENERGY CODE PRESCRIPTIVE COMPLIANCE - COMMERCIAL BUILDING MECHANICAL SYSTEMS

2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
Climate Zones, Design Conditions, Materials, Equipment and Systems					
C302	Design Conditions				
C302.1	Interior Design Conditions	Minimum and maximum temperatures for interior design load calculations	Load calculations performed at 70 degrees F for heating and 75 degrees F for cooling.	Load calculations performed at a maximum of 72 degrees F for heating and a minimum of 75 degrees F for cooling.	
Commercial Building Mechanical Systems					
C403	Building Mechanical Systems				
C403.1	General				
C403.1.1	Calculation of heating and cooling loads	Minimum and maximum temperatures for interior design load calculations	Design loads shall be determined by the HAP program in accordance with the procedures described in chapter 3 of energy code.	ANSI/ASHRAE/ACCA 183 ASHRAE HVAC Systems and Equipment Handbook OR Chapter 3 of Energy Code. Heating and Cooling loads shall be adjusted for energy recovery reduction.	M401
C403.2.2	Data Centers	Data centers design condition	N/A	Data center systems shall comply with Sections 6 and 8 of ASHRAE 90.4 with changes for tables 6.2.1.1 and 6.2.1.2.	N/A
C403.2	System Design				
C403.2.1	Zone Isolation Required	Zone isolation design for large areas	N/A	Provide zone isolation if: 1. HVAC system serving > 25,000 SF OR 2. Spans more than 1 floor AND 3. Designed to operate or be occupied nonsimultaneously. Provide isolation devices for each isolation area with auto shut-off controls for SA, EA, and OA. Each isolation area shall be controlled independently by a devce meeting section C403.4.2.2. Central systems and plants shall be provided with controls and devices that will allow system and equipment operation while serving only the smallest isolation area served by the system or plant. Exception: 1. Exhaust air and outdoor air connections to isolation areas where the fan system to which they connect is not greater than 5,000 cfm. 2. Exhaust airflow from a single isolation area of less than 10 percent of the design airflow of the exhaust system to which it connects. 3. Isolation areas intended to operate continuously or intended to be inoperative only when all other isolation areas in a zone are inoperative.	N/A
C403.2.2	Ventilation	Provide Outside Air for project	Mechanical ventilation provided per Chapter 4 of IMC	Ventilation, either natural or mechanical, shall be provided in accordance with Chapter 4 of the International Mechanical Code.	Sheet M401 for OA values
C403.2.3	Fault Detection and Diagnostics	Provide Fault Detection and Diagnostic systems for large buildings.	N/A	New buildings with an HVAC system serving a gross conditioned floor area => 100,000 square feet (9290 m2) shall include a fault detection and diagnostics (FDD) system. Exception: R-1 and R-2 occupancies. See code section for list of FDD requirements.	N/A
C403.3	Heating and Cooling Equipment Efficiencies				
C403.3.1	Equipment Sizing	Equipment shall be the smallest tonnage available while satisfying the loads.	Equipment shall meet requirements.	HVAC equipment shall: 1. Have a capacity that is not greater than that of the smallest available equipment size that exceeds the loads calculated in accordance with Section C403.1.1. 2. Satisfy both heating and cooling while keeping the capacity as low as possible. Exception: 1. Required standby equipment and systems provided with controls and devices that allow such systems or equipment to operate automatically only when the primary equipment is not operating. 2. Multiple units of the same equipment type with combined capacities exceeding the design load and provided with controls that are configured to sequence the operation of each unit based on load.	Specifications and Sheet M401.
C403.3.2	HVAC Equipment Performance Requirements	Meet the performance listed in the associated table.	Equipment shall meet requirements of table C403.3.2(2).	Equipment shall meet the minimum efficiency requirements of Tables C403.3.2(1) through C403.3.2(16) when tested and rated in accordance with the applicable test procedure. Plate-type liquid-to-liquid heat exchangers shall meet the minimum requirements of AHRI 400.	M401
C403.3.2(1)	Electrically Operated Unitary Air Conditioners and Condensing Units - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(1)	N/A
C403.3.2(2)	Electrically Operated Air-cooled Unitary Heat Pumps - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(2)	N/A
C403.3.2(3)	Water-Chilling Packages - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(3)	N/A
C403.3.2(4)	Electrically Operated Packaged Terminal Air Conditioners, Packaged Terminal Heat Pumps, Single-package Vertical Air Conditioners, Single-package Vertical Heat Pumps, Room Air Conditioners, and Room Air-Conditioner Heat Pumps—Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(4)	N/A
C403.3.2(5)	Warm-air Furnaces and Combination Warm-air Furnaces/Air-conditioning Units, Warm-air duct Furnaces and Unit Heaters - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(5)	N/A
C403.3.2(6)	Gas- and Oil-fired Boilers - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(6)	N/A
C403.3.2(7)	Performance Requirements for Heat Rejection Equipment - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(7)	N/A
C403.3.2(8)	Electrically Operated Variable-Refrigerant-Flow Air Conditioners - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(8)	N/A
C403.3.2(9)	Electrically Operated Variable-Refrigerant-Flow and Applied Heat Pumps - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(9)	N/A
C403.3.2(10)	Floor mounted Air Conditioners and Condensing Units Serving Computer Rooms - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(10)	N/A
C403.3.2(11)	Vapor-compression-based Indoor Pool Dehumidifiers - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(11)	N/A
C403.3.2(12)	Electrically Operated DX-DOAS Units, Single-packaged and Remote Condenser, Without Energy Recovery - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(12)	N/A
C403.3.2(13)	Electrically Operated DX-DOAS Units, Single-packaged and Remote Condenser, With Energy Recovery - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(13)	N/A
C403.3.2(14)	Electrically Operated Water-source Heat Pumps - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	SEE M401	Table C403.3.2(14)	M401
C403.3.2(15)	Heat Pumps and Heat Recovery Chiller Packages - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(15)	N/A
C403.3.2(16)	Ceiling Mounted Computer-room Air Conditioners - Minimum Efficiency Requirements	Meet the performance listed in the associated table.	N/A	Table C403.3.2(16)	N/A
C403.3.2.1	Water-Cooled Centrifugal Chilling Packages	Calculate load for equipment that does not match AHRI Standard condition using code provided formulas.	N/A	Equipment not designed for operation at AHRI Standard 550/590 test conditions of 44.00°F leaving and 54.00°F entering chilled-fluid temperatures, and with 85.00°F entering and 94.30°F leaving condenser-fluid temperatures, shall have maximum full-load kW/ton (FL) and part-load rating requirements adjusted using the code listed equations. See code section for full calculations guide.	N/A
C403.3.2.2	Positive Displacement (Air- And Water-Cooled) Chilling Packages	Meet the requirements stated on table C403.3.2.	N/A	Equipment with a leaving fluid temperature higher than 32°F (0°C) and water-cooled positive displacement chilling packages with a condenser leaving fluid temperature below 115°F (46°C) shall meet the requirements of the tables in Section C403.3.2 when tested or certified with water at standard rating conditions, in accordance with the referenced test procedure.	N/A
C403.3.3	Hot Gas Bypass Limitation	Gas bypass to be design as specified in table C403.3.3 and C403.5.1	N/A	Cooling systems shall not use hot gas bypass or other evaporator pressure control systems unless the system is designed with multiple steps of unloading or continuous capacity modulation. The capacity of the hot gas bypass shall be limited as indicated in Table C403.3.3, as limited by Section C403.5.1. 50% Bypass for =< 240,00Btu/h 25% Bypass for > 240,00Btu/h	N/A
C403.3.4	Boiler Turndown	Design boiler over 100000 Btu/h as specified in table C403.3.4.	N/A	Boiler systems with design input of greater than 1,000,000 Btu/h (293 kW) shall comply with the turndown ratio specified in Table C403.3.4. The system turndown requirement shall be met through the use of multiple single-input boilers, one or more modulating boilers or a combination of single-input and modulating boilers. See table C403.3.4 for turndown ratio.	N/A
C403.4	Heating and Cooling System Controls				
C403.4.1	Thermostatic Controls	Thermostats/humidistats for mechanical zones	One thermostat is provided for each HVAC unit	Each zone shall be provided with a thermostat. Where humidification and/or dehumidification is provided, provide at least one humidity control device for each humidity control system. For cooling, Relative humidity shall be limited to below 60%. Exception: Independent perimeter systems that are designed to offset only building envelope heat losses, gains or both serving one or more perimeter zones also served by an interior system shall meet both condition: 1. The perimeter system includes not fewer than one thermostatic control zone for each building exposure having exterior walls facing only one orientation (within ±45 degrees) (0.8 rad) for more than 50 contiguous feet (15 240 mm). 2. The perimeter system heating and cooling supply is controlled by thermostats located within the zones served by the system.	Thermostats shown on mechanical plans, M201

LOUSIANA ENERGY CODE PRESCRIPTIVE COMPLIANCE - COMMERCIAL BUILDING MECHANICAL SYSTEMS

2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C403.4.1.1	Heat Pump Supplementary Heat	Auxiliary Heat Control capable of meeting design condition.	No electric heat provided.	Heat pumps having supplementary electric resistance heat shall have controls that limit supplemental heat operation to only those times when one of the following applies: 1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting. 2. The heat pump is operating in defrost mode. 3. The vapor compression cycle malfunctions. 4. The thermostat malfunctions.	N/A
C403.4.1.2	Deadband	Select Thermostat that meets condition	Each thermostat will be programmable to meet requirements	Where use for both heating and cooling, zone thermostatic controls shall be configured to provide a temperature range or deadband of not less than 5°F (2.8°C) within which the heating and cooling to the zone is shut off or reduced to a minimum. Exceptions: 1. Thermostats requiring manual changeover between heating and cooling modes. 2. Occupancies or applications requiring precision in indoor temperature control as approved by the code official.	See Specs.
C403.4.1.3	Setpoint Overlap Restriction	Select Thermostat that meets condition	N/A	Where a zone has a separate heating and a separate cooling thermostatic control located within the zone, a limit switch, mechanical stop or direct digital control system with software programming shall be configured to prevent the heating setpoint from exceeding the cooling setpoint and to maintain a deadband in accordance with Section C403.4.1.2.	N/A
C403.4.1.4	Heated or Cooled Vestibules	Select controls that meets condition	N/A	The heating system for heated vestibules and air curtains with integral heating shall be provided with controls configured to shut off the source of heating when the outdoor air temperature is greater than 45°F (7°C). Vestibule heating and cooling systems shall be controlled by a thermostat located in the vestibule configured to limit heating to a temperature not greater than 60°F (16°C) and cooling to a temperature not less than 85°F (29°C).	N/A
C403.4.1.5	Hot Water Boiler Outdoor Temperature Setback Control	Select controls that meets condition	N/A	Hot water boilers that supply heat to the building through one- or two-pipe heating systems shall have an outdoor setback control that lowers the boiler water temperature based on the outdoor temperature.	N/A
C403.4.2	Off-Hour Controls	Provide controls for the system during non-operating hours.	Each thermostat will be programmable to meet requirements	Each zone shall be provided with thermostatic setback controls that are controlled by either an automatic time clock or programmable control system. Exeptions: 1. Zones that will be operated continuously. 2. Zones with a full HVAC load demand not exceeding 6,800 Btu/h (2 kW) and having a manual shutoff switch located with ready access.	See Specs.
C403.4.2.1	Thermostatic Setback	Select controls that meets condition	Each thermostat will be programmable to meet requirements	Thermostatic setback controls shall be configured to set back or temporarily operate the system to maintain zone temperatures down to 55°F (13°C) or up to 85°F (29°C).	See Specs.
C403.4.2.2	Automatic Setback and Shutdown	Select controls that meets condition	Thermostat shall be 7 days programmable.	Automatic time clock or programmable controls shall be: 1. Capable of starting and stopping the system for seven different daily schedules per week 2. Retain their programming and time setting during a loss of power for not fewer than 10 hours. 3. Includes a manual override that allows temporary operation of the system for up to 2 hours; a manually operated timer configured to operate the system for up to 2 hours; or an occupancy sensor.	M401
C403.4.2.3	Automatic Start and Stop	Select controls that meets condition	Each thermostat will be programmable to meet requirements	Automatic start and stop controls shall be provided for each HVAC system: 1. The automatic start controls shall be configured to adjust the daily start time of the HVAC system to bring each space to the desired occupied temperature prior to scheduled occupancy. 2. Automatic stop controls shall be provided with direct digital control of individual HVAC zones. The automatic stop controls shall be configured to reduce the HVAC system's heating setpoint and increase the cooling setpoint by not less than 2°F (-16.6°C) before unoccupied periods based on the thermal lag and acceptable drift in space temperature within comfort limits.	See Specs.
C403.4.3	Hydronic Systems Controls	Provide control for hydronic systems that match code conditions.	N/A	The heating/cooling of fluids that have been previously mechanically cooled/heated shall be limited in accordance with Sections C403.4.3.1 through C403.4.3.3. Hydronic heating systems comprised of multiple-packaged boilers and designed to deliver conditioned water or steam into a common distribution system shall include automatic controls configured to sequence operation of the boilers. Hydronic heating systems composed of a single boiler and greater than 500,000 Btu/h (146.5 kW) input design capacity shall include either a multistaged or modulating burner.	N/A
C403.4.3.1	Three-pipe system	Provide hydronic control.	N/A	Hydronic systems that use a common return system for both hot water and chilled water are prohibited.	N/A
C403.4.3.2	Two-pipe Changeover Systems	Provide hydronic control.	N/A	Systems that distribute both heated and chilled water shall be: 1. Designed to allow a deadband between changeover from one mode to the other of =>15°F (8.3°C) outside air temperatures. 2. Designed to and provided with controls that will allow operation in one mode for not less than 4 hours before changing over to the other mode. 3. Provided with controls that allow heating and cooling supply temperatures at the changeover point to be not more than 30°F (16.7°C) apart.	N/A
C403.4.3.3	Hydronic (Water Loop) Heat Pump Systems	Provide hydronic control.	Existing hydronic heat pump loop not in scope.	Hydronic heat pump systems shall comply with Sections C403.4.3.3.1 through C403.4.3.3.3: C403.4.3.3.1 - Temperature Deadband: Hydronic heat pumps connected to a heat pump water loop with central devices for heat rejection and heat addition shall have controls that provide a heat pump water supply temperature deadband of not less than 20°F (11°C) between initiation of heat rejection and heat addition by the central devices. **Except:** Where a system loop temperature optimization controller is installed to determine the most efficient operating temperature based on real-time conditions of demand and capacity, deadbands of less than 20°F (11°C) shall be permitted. C403.4.3.3.2 - Heat Rejection: The following shall apply to hydronic water loop heat pump systems in Climate Zones 3 through 8. **Louisana is climate zone 2A. This condition will never apply.** C403.4.3.3.3 - Two-position Valve: Each hydronic heat pump on the hydronic system having a total pump system power >10 hp (7.5 kW) shall have a two-position automatic valve interlocked to shut off the water flow.	N/A
C403.4.4	Part-Load Controls	Include part load controls for systems equal or over 300000Btu/h	Existing hydronic heat pump loop not in scope.	Hydronic systems => 300,000 Btu/h (87.9 kW) in design output capacity supplying heated or chilled water to comfort conditioning systems shall include controls that are configured to do all the following: 1. Reset Supply water temp based on coil valve position, zone-return water temp, building-return water temp, or outside air temp. Tempreset shall not be <25% of design supply to return water temp difference. 2. Vary fluid flow for the hydronic system with: a. A combined pump motor capacity of 2hp or larger with 3 or more control valves OR b. Other devices by reducing the system design flow rate by not less than 50 percent or the maximum reduction allowed by the equipment manufacturer for proper operation of equipment by valves that modulate or step open and close OR c. Pumps that modulate or turn on and off as a function of load. 3. Vary pump flow on heating-water systems, chilled-water systems, and heat rejection loops serving water-cooled unitary air conditioners as follows: a. Pumps operating continuously or based on a schedule or having a nominal output of => 2hp shall have a variable speed drive. b. Pumps operating only when zone heating or cooling is required shall be provided a variable speed flow based on table C403.4.4. 4. If a variable speed motor is provided per item 3, the pump motor shall be <30% of design wattage at 50% of design water flow. Pump flow shall be controlled to maintain one control valve nearly wide open or to satisfy the minimum differential pressure. Exception: See code section for Exceptions.	N/A
C403.4.5	Pump Isolation	Include pump configuration for multiple chiller and boiler	N/A	Chilled water plants with more than one chiller shall be configured to reduce flow automatically through the chiller plant when a chiller is shut down. Chillers piped in series for the purpose of increased temperature differential shall be considered as one chiller. Boiler systems including more than one boiler shall be configured to reduce flow automatically through the boiler system when a boiler is shut down.	N/A
C403.5	Economizers		Meet exception 1. System will not need an economizer.	Economizers shall comply with Sections C403.5.1 through C403.5.5. An air or water economizer shall be provided for the following cooling systems: 1. Chilled water systems with a total cooling capacity, less cooling capacity provided with air economizers, as specified in Table C403.5(1). 2. Individual fan systems with cooling capacity greater than or equal to 65,000 Btu/h (15.8 kW) in buildings having other than a Group R occupancy. 3. Individual fan systems with cooling capacity greater than or equal to 270,000 Btu/h (79.1 kW) in buildings having a Group R occupancy. Code Exceptions: 1. Individual fan systems not served by chilled water for buildings located in Climate Zones 0A, 0B, 1A, 1B, 2A and 3A. 2. Where more than 25 percent of the air designed to be supplied by the system is to spaces that are designed to be humidified above 35°F (1.7°C) dew-point temperature to satisfy process needs. 3. Systems expected to operate less than 20 hours per week. 4. Systems serving supermarket areas with open refrigerated casework. 5. Where the cooling efficiency is greater than or equal to the efficiency requirements in Table C403.5(2). 6. Systems that include a heat recovery system in accordance with Section C403.10.5 and Section C403.10.6 7. VRF systems installed with a dedicated outdoor air system.	N/A
C403.5.1	Integrated Economizer Control	Select controls that meets condition	N/A	Economizer systems shall be integrated with the mechanical cooling system and be configured to provide partial cooling even where additional mechanical cooling is required to provide the remainder of the cooling load. Controls shall not be capable of creating a false load in the mechanical cooling systems by limiting or disabling the economizer or any other means, such as hot gas bypass, except at the lowest stage of mechanical cooling.	N/A
C403.5.2	Economizer Heating System Impact	Select controls that meets condition	N/A	HVAC system design and economizer controls shall be such that economizer operation does not increase building heating energy use during normal operation.	N/A
C403.5.3	Air Economizers	Design Ecnomizer to listed condtions.	N/A	Air economizers shall comply with Sections C403.5.3.1 through C403.5.3.5.	N/A
C403.5.4	Water-side Economizers	Design Ecnomizer to listed condtions.	N/A	Water-side economizers shall comply with Sections C403.5.4.1 and C403.5.4.2.	N/A
C403.5.5	Economizer Fault Detection and Diagnostics	Select controls that meets condition	N/A	Air-cooled unitary direct-expansion units listed in the tables in Section C403.3.2 and variable refrigerant flow (VRF) units that are equipped with an economizer in accordance with Sections C403.5 through C403.5.4 shall include a fault detection and diagnostics system complying with code listed requirements.	N/A
C403.6	Requirements for Mechanical Systems Serving Multiple Zones				

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LOUSIANA ENERGY CODE PRESCRIPTIVE COMPLIANCE - COMMERCIAL BUILDING MECHANICAL SYSTEMS

2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C403.6.1	Variable Air Volume and Multiple-Zone Systems	Select controls that meets condition	These are single zone system. One hvac system per zone.	Supply air systems serving multiple zones shall be variable air volume (VAV) systems that is configured to reduce the volume of air that is reheated, recooled or mixed in each zone to one of the following: 1. Twenty percent of the zone design peak supply for systems with direct digital control (DDC) and 30 percent for other systems. 2. Systems with DDC where all of the following apply: a. The airflow rate in the deadband does not exceed 20 percent of the zone design peak supply rate or higher allowed rates under Items 3, 4 and 5 of this section. b. The first stage of heating modulates the zone supply air setpoint up to a maximum setpoint while the airflow is maintained at the deadband flow rate. c. The second stage of heating modulates the airflow rate from the deadband flow rate up to the heating maximum flow rate of <50 percent of the zone design peak supply rate. 3. The outdoor airflow rate meet the minimum ventilation requirements of Chapter 4 of the International Mechanical Code. 4. Any higher rate that can be demonstrated to reduce overall system annual energy use by offsetting reheat/recool energy losses through a reduction in outdoor air intake for the system as approved by the code official. 5. The airflow rate required to comply with applicable codes or accreditation standards such as pressure relationships or minimum air change rates. Exception: 1. Zones or supply air systems where not less than 75 percent of the energy for reheating or for providing warm air in mixing systems is provided from a site-recovered, including condenser heat, or site-solar energy source. 2. Systems that prevent reheating, recooling, mixing or simultaneous supply of air that has been previously cooled, either mechanically or through the use of economizer systems, and air that has been previously mechanically heated.	See plans
C403.6.2	Single-Duct VAV Systems, Terminal Devices	Select controls that meets condition	N/A	Single-duct VAV systems shall use terminal devices capable of and configured to reduce the supply of primary supply air before reheating or recooling takes place.	N/A
C403.6.3	Dual-Duct and Mixing VAV Systems, Terminal Devices	Select controls that meets condition	N/A	Systems that have one warm air duct and one cool air duct shall use terminal devices that are configured to reduce the flow from one duct to a minimum before mixing of air from the other duct takes place.	N/A
C403.6.4	Single-Fan Dual-Duct and Mixing VAV Systems, Economizers	Provide economizer as needed	N/A	Individual dual-duct or mixing heating and cooling systems with a single fan and with total capacities >90,000 Btu/h [(26.4 kW) 7.5 tons] shall not be equipped with air economizers.	N/A
C403.6.5	Supply-Air Temperature Reset Controls	Select controls that meets condition	N/A	Multiple-zone HVAC systems shall include controls that are configured to automatically reset the supply-air temp in response to representative building loads, or to outdoor air temperature. The controls shall be configured to reset the supply air temperature >25% of the difference between the design supply-air temperature and the design room air temperature. Controls that adjust the reset based on zone humidity are allowed in Climate Zones 2B. HVAC zones that are expected to experience relatively constant loads shall have maximum airflow designed to accommodate the fully reset supply-air temperature. See code section for all exception C403.6.5.1 - Dehumidification Control Interaction: In Climate Zones 2A, the system design shall allow supply-air temperature reset while dehumidification is provided. When dehumidification control is active, air economizers shall be locked out.	N/A
C403.6.6	Multiple-Zone VAV System Ventilation Optimization Control	Select controls that meets condition	N/A	Multiple-zone VAV systems shall have automatic controls configured to reduce outdoor air intake flow below design rates in response to changes in system ventilation efficiency (Ev) as defined by the International Mechanical Code. Exception: 1. VAV systems with zonal transfer fans that recirculate air from other zones without directly mixing it with outdoor air, dual-duct dual-fan VAV systems, and VAV systems with fan-powered terminal units. 2. Systems where total design exhaust airflow >70 percent of total design outdoor air intake flow requirements.	N/A
C403.6.7	Parallel-Flow Fan-Powered VAV Air Terminal Control	Select controls that meets condition	N/A	Parallel-flow fan-powered VAV air terminals shall have automatic controls configured to: 1. Turn off the terminal fan except when space heating is required or where required for ventilation. 2. Turn on the terminal fan as the first stage of heating before the heating coil is activated. 3. During heating for warmup or setback temperature control, operate fan and heating coil without primary air OR reverse terminal damper logic and provide heating.	N/A
C403.6.8	Setpoints for Direct Digital Control	Select controls that meets condition	N/A	For systems with direct digital control of individual zones reporting to the central control panel, the static pressure setpoint shall be reset based on the zone requiring the most pressure. The direct digital controls shall be capable of adjusting static pressure to provide all of the following: 1. Automatic detection of any zone that excessively drives the reset logic. 2. Generation of an alarm to the system operational location. 3. Allowance for an operator to readily remove one or more zones from the reset algorithm.	N/A
C403.6.9	Static Pressure Sensor Location	Select controls that meets condition	N/A	Static pressure sensors used to control VAV fans shall be located such that the controller setpoint is not greater than 1.2 inches w.c. (299 Pa). Where this results in one or more sensors being located downstream of major duct splits, not less than one sensor shall be located on each major branch to ensure that static pressure can be maintained in each branch.	N/A
C403.7	Ventilation and Exhaust Systems				
C403.7.1	Demand Control Ventilation	Provide DCV controls for applicable units	N/A	Demand control ventilation (DCV) shall be provided for: 1. All single-zone systems required to comply with Sections C403.5 through C403.5.3 2. Spaces larger than 500 square feet (46.5 m2) with an average occupant load of 15 people or greater per 1,000 square feet (93 m2) of floor area. 3. Served by systems with one or more of the following: a. An air-side economizer. b. Automatic modulating control of the outdoor air damper. c. A design outdoor airflow greater than 3,000 cfm (1416 L/s). Exceptions: 1. Systems with energy recovery complying with Section C403.7.4.2. 2. Multiple-zone systems without direct digital control of individual zones communicating with a central control panel. 3. Multiple-zone systems with a design outdoor airflow <750 cfm (354 L/s). 4. Spaces where >75% of the space design outdoor airflow is required for makeup air that is exhausted from the space or transfer air that is required for makeup air that is exhausted from other spaces. 5. Spaces with one of the following occupancy classifications as defined in Table 403.3.1.1 of the International Mechanical Code: correctional cells, education laboratories, barber, beauty and nail salons, and bowling alley seating areas.	N/A
C403.7.2	Enclosed Parking Garage Ventilation Controls	Provide proper exhaust and detection system for garage space	N/A	Enclosed parking garages shall employ carbon monoxide detectors applied in conjunction with nitrogen dioxide detectors and automatic controls configured to stage fans or modulate fan average airflow rates to 50% or less of design capacity, or intermittently operate fans <20% of the occupied time or as required to maintain acceptable contaminant levels in accordance with International Mechanical Code provisions. Failure of contamination-sensing devices shall cause the exhaust fans to operate continuously at design airflow. See code section for exceptions.	N/A
C403.7.3	Ventilation Air Heating Control	Medium Pressure Ductwork	N/A	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems shall not use heating or heat recovery to warm supply air to a temperature >60°F (16°C) when the majority of zones require cooling.	N/A
C403.7.4	Energy Recovery Systems	Provide energy recovery for system.	N/A	Energy recovery ventilation systems shall be provided as specified in either Section C403.7.4.1 or C403.7.4.2, as applicable.	N/A
C403.7.4.1	Nontransient Dwelling Units	Provide energy recovery for system.	N/A	Nontransient Dwelling Units shall be provided with outdoor air energy recovery ventilation systems with an enthalpy recovery ratio of >50% at cooling design condition and >60% at heating design condition. Exceptions: 1. Nontransient dwelling units in Climate Zone 3C. 2. Nontransient dwelling units with <500 square feet (46 m2) of conditioned floor area in Climate Zones 0, 1, 2, 3, 4C and 5C. 3. Enthalpy recovery ratio requirements at heating design conditions in Climate Zones 0, 1 and 2. 4. Enthalpy recovery ratio requirements at cooling design conditions in Climate Zones 4, 5, 6, 7 and 8.	N/A
C403.7.4.2	Spaces Other Than Nontransient Dwelling Units:	Provide energy recovery for system.	N/A	Spaces Other Than Nontransient Dwelling Units: Where the supply airflow rate of a fan system serving a space exceeds the values specified in Tables C403.7.4.2(1) and C403.7.4.2(2), the system shall include an energy recovery system. The energy recovery system shall provide an enthalpy recovery ratio of >50 percent at design conditions. Where an air economizer is required, the energy recovery system shall include provisions per Section C403.5. Exceptions: See code section for exception and tables.	N/A
C403.7.5	Kitchen Exhaust Systems	Kitchen hood and fan match listed conditions	N/A	Replacement air flowing directly into the exhaust hood cavity shall be <10% of the hood exhaust airflow rate. Conditioned supply air delivered to any space shall not exceed the greater of the following: 1. The ventilation rate required to meet the space heating or cooling load. 2. Hood CFM - Adjacent Space OA. Hood exhaust shall not be serving other exhaust needs such as restrooms with this method. Where hood CFM > 5000, Hood shall be commercially built and approved by UL710. Maximum exhaust rate listed in table C403.7.5 and complies with: 1. Not less than 50 percent of all replacement air shall be transfer air that would otherwise be exhausted. 2. DCV systems on >75% of the exhaust air that is configured to provide >50% reduction in exhaust and replacement air system airflow rates, including controls necessary to modulate airflow in response to appliance operation and to maintain full capture and containment of smoke, effluent and combustion products during cooking and idle. 3. Listed energy recovery devices with a sensible heat recovery effectiveness of not less than 40 percent on not less than 50 percent of the total exhaust airflow. The duty rating of the hood shall match the rating of the highest appliance. Exception: Where not less than 75 percent of all the replacement air is transfer air that would otherwise be exhausted.	N/A

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2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C403.7.6	Automatic Control of HVAC Systems Serving Guestrooms	Select controls that meets condition	N/A	In Group R-1 buildings containing more than 50 guestrooms, each guestroom shall be provided with controls complying with Sections C403.7.6.1 and C403.7.6.2. Card key controls comply with these requirements. C403.7.6.1 - Temperature Setpoint Controls: HVAC controls shall have 3 modes: 1. Unoccupied: Raise cooling set point and lower heating set point 4°F above occupant set point within 30 minutes. 2. Unrented & unoccupied: cooling shall be higher than 78°F and heating shall be lower than 78°F. Mode shall initiate within 16 hours after the guest room has been unoccupied for more than 20 minutes. Excluded from this section are controls capable of returning the room to an occupied setpoint within 60 minutes or limiting cooling humidity >65% during an unoccupied period. 3. When the guestroom is occupied, HVAC setpoints shall return to their occupied setpoints once occupancy is sensed. C403.7.6.2 - Ventilation Controls Controls for HVAC system shall automatically turn off the ventilation and exhaust fans within 20 minutes of unoccupancy, or isolation devices shall be provided to shut off the supply of outdoor air to and exhaust air from the guestroom. Exception: Guestroom ventilation systems are not precluded from having an automatic daily pre-occupancy purge cycle that provides daily outdoor air ventilation during unrented periods at the design ventilation rate for 60 minutes, or at a rate and duration equivalent to one air change.	N/A
C403.7.7	Shutoff Dampers	Select controls that meets condition	Shut off dampers not required per exceptions 1,2,3	Outside Air intake shall be provided with a class 1 motorized damper capable of opening and closing base on room occupancy unless specified in the International Mechanical Code. Stairway and shafts damper shall automatically close in case of a fire. Exception: Nonmotorized gravity dampers are allowed alternative in case of: 1. In buildings less than three stories in height above grade plane. 2. In buildings of any height located in Climate Zones 0, 1, 2 or 3. 3. Where the design exhaust capacity is not greater than 300 cfm (142 L/s). See code section for nonmotorized gravity dampers design.	N/A
C403.8	Fans and Fan Controls				
Table C403.8.1	Allowable Fan Horsepower	Verify that fan meets condition	N/A	Each HVAC system having a total fan nameplate horsepower >5 hp (3.7 kW) at design conditions shall not exceed the allowable fan system motor nameplate hp (Option 1) or fan system bhp (Option 2) shown in Table C403.8.1(1). This includes supply fans, exhaust fans, return/relief fans, and fan-powered terminal units associated with systems providing heating or cooling capability. Single-zone variable air volume systems shall comply with the constant volume fan power limitation. Exceptions: 1. Hospital, vivarium and labs shall be permitted to use variable volume fan power limitation. 2. Individual exhaust fans with motor nameplate horsepower of 1 hp (0.746 kW) or less are exempt from the allowable fan horsepower requirement.	N/A
Table C403.8.2	Motor Nameplate Horsepower	Verify that fan meets condition	Fans shall meet condition.	For each fan, the fan brake horsepower (bhp) shall not be larger than the first available motor size greater than the following: 1. For fans less than 6 bhp (4476 W), 1.5 times the fan brake horsepower. 2. For fans 6 bhp (4476 W) and larger, 1.3 times the fan brake horsepower. Exceptions: 1. Fans equipped with electronic speed control devices to vary the fan airflow as a function of load. 2. Fans with a fan nameplate electrical input power of less than 0.89 kW. 3. Systems complying with Section C403.8.1 fan system motor nameplate hp (Option 1). 4. Fans with motor nameplate horsepower less than 1 hp (746 W).	M401
Table C403.8.3	Fan Efficiency	Verify that fan meets condition	Fan meet exception 1	Each fan and fan array shall: 1. have a fan energy index (FEI) of not less than 1.00 at the design point of operation. 2. For a variable-air-volume system shall have an FEI of not less than 0.95 at the design point of operation. 3. Calculated in accordance with AMCA 208 Annex C. Exceptions: The following fans are not required to have a fan energy index: 1. Non-embedded fans with motor nameplate horsepower of <1.0 hp (0.75 kW) or with a nameplate electrical input power of <0.89 kW. 2. Embedded fans that have a motor nameplate horsepower of =<5 hp (3.7 kW), or with a fan system electrical input power of <4.1 kW. 3. Multiple fans operated in series or parallel as the functional equivalent of a single fan that have a combined motor nameplate horsepower of =<5 hp (3.7 kW) or with a fan system electrical input power of <4.1 kW. 4. Fans that are part of equipment covered in Section C403.3.2. 5. Fans included in an equipment package certified by an approved agency for air or energy performance. 6. Ceiling fans, which are defined as nonportable devices suspended from a ceiling or overhead structure for circulating air via the rotation of the blades. 7. Fans used for moving gases at temperatures above 425°F (250°C). 8. Fans used for operation in explosive atmospheres. 9. Reversible fans used for tunnel ventilation. 10. Fans that are intended to operate only during emergency conditions. 11. Fans outside the scope of AMCA 208.	M401
Table C403.8.4	Fractional hp Fan Motors	Verify that fan meets condition	Fans shall meet condition.	Motors for fans that are >1/12 hp (0.062 kW) and <1 hp (0.746 kW) shall be: 1. Electronically commutated motors OR have a minimum motor efficiency of 70 percent, rated in accordance with DOE 10 CFR 431. 2. Adjust motor speed for either balancing or remote control. The use of belt-driven fans to sheave adjustments for airflow balancing instead of a varying motor speed shall be permitted. Exceptions: The following motors are not required to comply with this section 1. Motors in the airstream within fan coils and terminal units that only provide heating to the space served. 2. Motors in space-conditioning equipment that comply with Section C403.3.2 or Sections C403.8.1. through C403.8.3. 3. Motors that comply with Section C405.8.	M401
Table C403.8.5	Low-Capacity Ventilation Fans	Verify that fan meets condition	N/A	Mechanical ventilation system fans with motors <1/12 hp (0.062 kW) in capacity shall meet the efficacy requirements of Table C403.8.5 at one or more rating points. Exceptions: 1. Where ventilation fans are a component of a listed heating or cooling appliance. 2. Dryer exhaust duct power ventilators, domestic range hoods and domestic range booster fans that operate intermittently.	M401
Table C403.8.6	Fan Control	Verify that fan meets condition	N/A	C403.8.6.1 - Fan Airflow Control: Cooling system listed in Table C403.8.6.1 shall be designed to vary the indoor fan airflow as a function of load and shall comply with the following requirements: 1. Direct expansion (DX) and chilled water cooling units shall have not fewer than two stages of fan control. Low or minimum speed shall <66 percent of full speed. At low or minimum speed, the fan system shall draw <40 percent of the fan power. Low or minimum speed shall be used during periods of low cooling load and ventilation-only operation. 2. Other units including DX cooling units and chilled water units that control the space temperature by modulating the airflow to the space shall have modulating fan control. Minimum speed shall be not greater than 50 percent of full speed. At minimum speed the fan system shall draw not more than 30 percent of the power at full fan speed. Low or minimum speed shall be used during periods of low cooling load and ventilation-only operation. 3. Units that include an air-side economizer in accordance with Section C403.5 shall have not fewer than two speeds of fan control during economizer operation. Exception: 1. Modulating fan control is not required for chilled water and evaporative cooling units with fan motors <1 hp (0.746 kW) where the units are not used to provide ventilation air and the indoor fan cycles with the load. 2. Where the volume of outdoor air required to comply with the ventilation requirements of the International Mechanical Code at low speed exceeds the air that would be delivered at the speed defined in Section C403.8.6, the minimum speed shall be selected to provide the required ventilation air.	N/A
C403.9	Large-Diameter Ceiling Fans		N/A	Where provided, large-diameter ceiling fans shall be tested and labeled in accordance with AMCA 230.	N/A
C403.10	Heat Rejection Equipment			Heat rejection equipment, including air-cooled condensers, dry coolers, open-circuit cooling towers, closed-circuit cooling towers and evaporative condensers, shall comply with this section. Exception: Where energy usage is included in the equipment efficiency ratings listed in Tables C403.3.2(6) and C403.3.2(7).	
C403.10.1	Fan Speed Control	Select controls that meets condition	N/A	Each fan system powered by an individual motor or array of motors with connected power, including the motor service factor, totaling =>5 hp (3.7 kW) shall have controls and devices configured to modulate fan speed to control the leaving fluid temperature or condensing temperature and pressure of the heat rejection device. Fan motor power input shall be <30 percent of design wattage at 50 percent of the design airflow. Exception: 1. Fans serving multiple refrigerant or fluid cooling circuits. 2. Condenser fans serving flooded condensers.	N/A
C403.2.10.2	Multiple-Cell Heat Rejection Equipment	Provide variable speed drive	N/A	Multiple-cell heat rejection equipment with variable speed fan drives shall operate at the maximum number of fans allowed so that all fans operate at the same fan speed required for the instantaneous cooling duty, as opposed to staged on-and-off operation. The minimum fan speed shall be the minimum allowable speed of the fan drive system in accordance with the manufacturer's recommendations.	N/A
C403.2.10.3	Limitation on Centrifugal Fan Open-Circuit Cooling Towers	Verify that fan meets condition	N/A	Centrifugal fan open-circuit cooling towers with a combined rated capacity of =>1,100 gpm (4164 L/m) at 95°F (35°C) condenser water return, 85°F (29°C) condenser water supply, and 75°F (24°C) outdoor air wet-bulb temperature shall meet the energy efficiency requirement for axial fan open-circuit cooling towers listed in Table C403.3.2(8). Exception: Exception: Centrifugal open-circuit cooling towers that are designed with inlet or discharge ducts or require external sound attenuation.	N/A
C403.2.10.4	Tower Flow Turndown	Verify that tower meets condition	N/A	Open-circuit cooling towers used on water-cooled chiller systems that are configured with multiple- or variable-speed condenser water pumps shall be designed so that all open-circuit cooling tower cells can be run in parallel with the larger of the flow that is produced by the smallest pump at its minimum expected flow rate or at 50 percent of the design flow for the cell.	N/A
C403.2.10.5	Heat Recovery for Service Water Heating	Verify that condenser meets condition	N/A	Condenser heat recovery shall be installed for heating or reheating of service hot water provided that: 1. The facility operates 24 hours a day 2. The total installed heat capacity of water-cooled systems exceeds 6,000,000 Btu/hr (1758 kW) of heat rejection. 3. The design service water heating load exceeds 1,000,000 Btu/h (293 kW). The required heat recovery system shall have the capacity to provide the smaller of the following: 1. Sixty percent of the peak heat rejection load at design conditions. 2. The preheating required to raise the peak service hot water draw to 85°F (29°C). Exeptions: 1. Facilities that employ condenser heat recovery for space heating or reheat purposes with a heat recovery design exceeding 30 percent of the peak water-cooled condenser load at design conditions. 2. Facilities that provide 60 percent of their service water heating from site solar or site recovered energy or from other sources.	N/A

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ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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New Orleans, LA 70115

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IN
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LOUSIANA ENERGY CODE PRESCRIPTIVE COMPLIANCE - COMMERCIAL BUILDING MECHANICAL SYSTEMS

2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C403.2.10.6	Heat Recovery for Space Conditioning in Healthcare Facilities	Verify that condenser meets condition	N/A	Where heating water is used for space heating, a condenser heat recovery system shall be installed provided that all of the following are true: 1. The building is a Group I-2, Condition 2 occupancy. 2. The total design chilled water capacity for the Group I-2, Condition 2 occupancy, either air-cooled or water cooled, required at cooling design conditions exceeds 3,600,000 Btu/h (1100 kw) of cooling. 3. Simultaneous heating and cooling occurs above 60°F (16°C) outdoor air temperature. The required heat recovery system shall have a cooling capacity that >7% of the total design chilled water capacity of the Group I-2, Condition 2 occupancy at peak design conditions. Exception: 1. Buildings that provide 60 percent or more of their reheat energy from on-site renewable energy or site-recovered energy. 2. Buildings in Climate Zones 5C, 6B, 7 and 8.	N/A
C403.11	Refrigeration Equipment Performance		N/A	Refrigeration equipment performance shall be determined in accordance with Sections C403.11.1 and C403.11.2 for commercial refrigerators, freezers, refrigerator-freezers, walk-in coolers, walk-in freezers and refrigeration equipment. The energy use shall be supported by data furnished by the equipment manufacturer. Exception: Walk-in coolers and walk-in freezers regulated under federal law in accordance with Subpart R of DOE 10 CFR 431.	N/A
C403.11.1	Commercial Refrigerators, Refrigerator-Freezers and Refrigeration	Verify that refrigeration equipment meets condition	N/A	Refrigeration equipment, defined in DOE 10 CFR Part 431.62, shall have an energy use in kWh/day not greater than the values of Table C403.11.1 when tested and rated in accordance with AHRI Standard 1200.	N/A
C403.11.2	Walk-in Coolers and Walk-in Freezers	Verify that refrigeration equipment meets condition	N/A	Walk-in cooler and walk-in freezer refrigeration systems, except for walk-in process cooling refrigeration systems as defined in DOE 10 CFR 431.302, shall meet the requirements of Tables C403.11.2.1(1), C403.11.2.1(2) and C403.11.2.1(3).	N/A
C403.11.3	Refrigeration Systems	Verify that refrigeration equipment meets condition	N/A	Refrigerated display cases, walk-in coolers or walk-in freezers that are served by remote compressors and remote condensers not located in a condensing unit, shall comply with Sections C403.11.3.1 and C403.11.3.2. Exception: Systems where the working fluid in the refrigeration cycle goes through both subcritical and super-critical states (transcritical) or that use ammonia refrigerant are exempt.	N/A
C403.11.3.1	Condensers Serving Refrigeration Systems		N/A	Fan-powered condensers shall comply with the following: 1. The design saturated condensing temperatures shall not exceed the dry-bulb temperature plus 10°F (5.6°C) for low-temperature refrigeration systems, and the design dry-bulb temperature plus 15°F (8°C) for medium temperature refrigeration systems where the saturated condensing temperature for blend refrigerants shall be determined using the average of liquid and vapor temperatures as converted from the condenser drain pressure. 2. Condenser fan motors that are <1 hp (0.75 kW) shall use electronically commutated motors, permanent split-capacitor-type motors or 3-phase motors. 3. Condenser fans for air-cooled condensers, evaporatively cooled condensers, air- or water-cooled fluid coolers or cooling towers shall reduce fan motor demand to not more than 30 percent of design wattage at 50 percent of design air volume, and incorporate one of the following continuous variable speed fan control approaches: a. Refrigeration system condenser control for air-cooled condensers shall use variable setpoint control logic to reset the condensing temperature setpoint in response to ambient dry-bulb temperature. b. Refrigeration system condenser control for evaporatively cooled condensers shall use variable setpoint control logic to reset the condensing temperature setpoint in response to ambient wet-bulb temperature. 4. Multiple fan condensers shall be controlled in unison. 5. The minimum condensing temperature setpoint shall be not greater than 70°F (21°C).	N/A
C403.11.3.2	Compressor Systems		N/A	Refrigeration compressor systems shall comply with the following: 1. Compressors and multiple-compressor system suction groups shall include control systems capable of resetting the target suction pressure temperature based on the temperature requirements of the attached refrigeration display cases or walk-ins. See code section for exceptions. 2. Liquid subcooling shall be provided for all low-temperature compressor systems with a design cooling capacity =>100,000 Btu (29.3 kW) with a design-saturated suction temperature of -10°F (-23°C) or lower. The sub-cooled liquid temperature shall be at a maximum temperature setpoint of 50°F (10°C) at the exit of the subcooler operating at a saturated suction temperature of 18°F (-7.8°C) or higher.. 3.Compressors that incorporate internal or external crankcase heaters shall provide a means to cycle the heaters off during compressor operation.	N/A
C403.12	Construction of HVAC System Elements				
C403.12.1	Duct and Plenum Insulation Andsealing	Provide insulation for ductwork per code	Requirements will be met	Supply and return air ducts and plenums shall be insulated 1. With R-6 or higher insulation in unconditioned spaces 2. With R-8 or higher in outdoor space in climate zone 0 to 4. Ducts located 3. Underground ductwork beneath buildings shall be insulated as required in this section or have an equivalent thermal distribution efficiency. Underground ducts utilizing the thermal distribution efficiency method shall be listed and labeled to indicate the R-value equivalency. Where located within a building envelope assembly, the duct or plenum shall be separated from the building exterior or unconditioned or exempt spaces by not less than R-8 insulation in Climate Zones 0 through 4. Exceptions: 1. Where located within equipment. 2. Where the design temperature difference between the interior and exterior of the duct or plenum is not greater than 15°F (8°C). All ductwork,air handlers and filter boxes shall be sealed	See Specs
C403.12.2	Duct Construction	Provide a necessary provsion depedning on duct type.	Requirements will be met	Ductwork shall be constructed and erected in accordance with the International Mechanical Code. C403.12.2.1 - Low-Pressure Duct Systems Longitudinal and transverse joints, seams, and connections of supply and return ducts operating at a static pressure =< 2 inches water gauge (w.g.) (498 Pa) shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mas-tic-plus-embedded-fabric systems or tapes installed in accordance with the manufacturer's instructions. Provide pressure classification on the duct. Exception: Locking-type longitudinal joints and seams, other than the snap-lock and button-lock types, need not be sealed as specified in this section. C403.12.2.2 - Medium-Pressure Duct Systems Ducts and plenums designed to operate at a static pressure >2 inches water gauge (w.g.) (498 Pa) but less than 3 inches w.g. (747 Pa) shall be insulated and sealed in accordance with Section C403.12.1. Provide pressure classification on the duct. C403.12.2.3 - High-Pressure Duct Systems Ducts and plenums designed to operate at static pressures =>3 inches water gauge (747 Pa) shall be insulated and sealed in accordance with Section C403.12.1. In addition, ducts and plenums shall be leak tested in accordance with the SMACNA HVAC Air Duct Leakage Test Manual and shown to have a rate of air leakage (CL) less than or equal to 4.0. See code for Equation 4-8. Documentation shall be furnished demonstrating that at least 25% of ducts meet the requirements.	See Specs
C403.12.3	Piping Insulation	Provide insulation for piping per code	Requirements will be met	Piping serving as part of a heating or cooling system shall be thermally insulated in accordance with Table C403.12.3. Exception: 1. Factory-installed piping within HVAC equipment tested and rated in accordance with a test procedure referenced by this code. 2. Factory-installed piping within room fan-coils and unit ventilators tested and rated according to AHRI 440 (except that the sampling and variation provisions of Section 6.5 shall not apply) and AHRI 840, respectively. 3. Piping that conveys fluids that have a design operating temperature range between 60°F (15°C) and 105°F (41°C). 4. Piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power. 5. Strainers, control valves, and balancing valves associated with piping 1 inch (25 mm) or less in diameter. 6. Direct buried piping that conveys fluids at or below 60°F (15°C). 7. In radiant heating systems, sections of piping intended by design to radiate heat. C403.12.3.1 - Protection of Piping Insulation: Exterior pipe insulation shall be protected from damage caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.	See Specs
C403.13	Mechanical Systems Located Outside of the Building Thermal Envelope				
C403.13.1	Heating Outside a Building	Provide heating system outside of building	N/A	Systems installed to provide heat outside a building shall be radiant systems. Such heating systems shall be controlled by an occupancy sensing device or a timer switch, so that the system is automatically de-energized when occupants are not present.	N/A
C403.13.2	Snow- And Ice-Melt System Controls	Provide control systems that meets requirements	N/A	Snow- and ice-melting systems shall include automatic controls configured to shut off the system when the pavement temperature is above 50°F (10°C) and precipitation is not falling, and an automatic or manual control that is configured to shut off when the outdoor temperature is above 40°F (4°C).	N/A
C403.13.3	Freeze Protection System Controls	Provide control systems that meets requirements	N/A	Freeze protection systems, such as heat tracing of outdoor piping and heat exchangers, including self-regulating heat tracing, shall include automatic controls configured to shut off the systems when outdoor air temperatures are above 40°F (4°C) or when the conditions of the protected fluid will prevent freezing.	N/A
C403.14	Operable Opening Interlocking Controls		N/A	The heating and cooling systems shall have controls that will interlock these mechanical systems to the set temperatures of 90°F (32°C) for cooling and 55°F (12.7°C) for heating when the conditions of Section C402.5.8 exist. The controls shall configure to shut off the systems entirely when the outdoor temperatures are below 90°F (32°C) or above 55°F (12.7°C).	
C406	Additional Efficiency Requirements				
C406.1	Additional Energy Efficiency Credit Requirements		Pursuing option 1, table C403.3.2(2) for heat pump efficiency, 10% efficiency improvement	New buildings shall achieve a total of 10 credits from Tables C406.1(1) through C406.1(5). See listed HVAC credits below. 1. More efficient HVAC performance in accordance with Section C406.2. 5. Provision of a dedicated outdoor air system for certain HVAC equipment in accordance with Section C406.6. 10. Where not required by Section C403.2.3, include a fault detection and diagnostics (FDD) system in accordance with Section C406.11. 11. Efficient kitchen equipment in accordance with Section C406.12.	
C406.2	More Efficient HVAC Equipment Performance		Equipment will meet requirements for 10% improvement for B occupancy, 10 credits.	Equipment shall exceed the minimum efficiency requirements listed in the tables in Section C403.3.2 according to sections C406.2.1 to C406.2.5. Equipment not listed shall be limited to 10 percent of the total building system capacity for heating equipment.	
C406.2.1	Five-Percent Heating Efficiency Improvement		N/A	Equipment shall exceed the minimum heating efficiency requirements by 5 percent.	
C406.2.2	Five-Percent Cooling Efficiency Improvement		See C406.2.4	Equipment shall exceed the minimum cooling and heat rejection efficiency requirements by 5 percent. Where multiple cooling performance requirements are provided, the equipment shall exceed the annual energy requirement, including IEER, SEER and IPLV.	
C406.2.3	Ten-Percent Heating Efficiency Improvement		N/A	Equipment shall exceed the minimum heating efficiency requirements by 10 percent.	N/A
C406.2.4	Ten-Percent Cooling Efficiency Improvement		See M401	Equipment shall exceed the minimum cooling and heat rejection efficiency requirements by 10 percent. Where multiple cooling performance requirements are provided, the equipment shall exceed the annual energy requirement, including IEER, SEER and IPLV.	M401

LOUSIANA ENERGY CODE PRESCRIPTIVE COMPLIANCE - COMMERCIAL BUILDING MECHANICAL SYSTEMS

2021 IECC with LA Amendments	Provision	Item Description	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C406.2.5	More Than 10-Percent Cooling Efficiency Improvement		N/A	Where equipment exceeds the minimum annual cooling and heat rejection efficiency requirements by more than 10 percent, energy efficiency credits for cooling may be determined using Equation 4-12, rounded to the nearest whole number. Where multiple cooling performance requirements are provided, the equipment shall exceed the annual energy requirement, including IEER, SEER, and IPLV. See code section for equation 4-12 and calculation instrcutions.	N/A
C406.6	Dedicated Outdoor Air System		N/A	Buildings containing equipment or systems regulated by Section C403.3.4, C403.4.3, C403.4.4, C403.4.5, C403.6, C403.8.4, C403.8.6, C403.8.6.1, C403.10.1, C403.10.2, C403.10.3 or C403.10.4 shall be: 1. Equipped with an independent ventilation system designed to provide not less than the minimum 100-percent outdoor air to each individual occupied space, as specified by the International Mechanical Code. 2. The ventilation system shall be capable of total energy recovery. 3. The HVAC system shall include supply-air temperature controls that automatically reset the supply-air temperature in response to representative building loads or to outdoor air temperatures. 4. The controls shall reset the supply-air temperature not less than 25 percent of the difference between the design supply-air temperature and the design room-air temperature.	N/A
C406.12	Efficient Kitchen Equipment		N/A	For buildings and spaces designated as Group A-2 or facilities that include a commercial kitchen with at least one gas or electric fryer, all fryers, dishwashers, steam cookers and ovens shall comply with all of the following: 1. Achieve performance levels in accordance with the equipment specifications listed in Tables C406.12(1) through C406.12(4) when rated in accordance with the applicable test procedure. 2. Be installed prior to the issuance of the Certificate of Occupancy. 3. Have associated performance levels listed on the construction documents submitted for permitting. Energy efficiency credits for efficient kitchen equipment shall be independent of climate zone and determined based on Equation 4-15, rounded to the nearest whole number.	N/A
C408 and C408.1	Maintenance Information and System Commissioning			This section covers the provision of maintenance information and the commissioning of, and the functional testing requirements for, building systems.	
C408.1.1	Building Operatios and Maintenance Information	To be provided by the Contractor	Provided by the contractor	The building operations and maintenance documents shall be provided to the owner and shall consist of manufacturers' information, specifications and recommendations; programming procedures and data points; narratives; and other means of illustrating to the owner how the building, equipment and systems are intended to be installed, maintained and operated. Required regular maintenance actions for equipment and systems shall be clearly stated on a readily visible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.	See specs
C408.2	Mechanical Systems and Service Water-Heating Systems Commissioning and Completion Requirements		N/A	Prior to the final mechanical and plumbing inspections, the registered design professional or approved agency shall provide evidence of mechanical systems commissioning and completion in accordance with the provisions of this section. Construction document notes shall clearly indicate provisions for commissioning and completion requirements in accordance with this section and are permitted to refer to specifications for further requirements. Copies of all documentation shall be given to the owner or owner's authorized agent and made available to the code official upon request in accordance with Sections C408.2.4 and C408.2.5. Exceptions: The following systems are exempt: 1. Mechanical systems and service water-heating systems in buildings where the total mechanical equipment capacity is less than 480,000 Btu/h (140.7 kW) cooling capacity and 600,000 Btu/h (175.8 kW) combined service water-heating and space-heating capacity. 2. Systems included in Section C403.5 that serve individual dwelling units and sleeping units.	N/A
C408.2.1	Commissioning Plan		N/A - Cx not required as building tonnage does not exceed 40 tons in scope.	A commissioning plan shall be developed by a registered design professional or approved agency and shall include the following items: 1. A narrative description of the activities that will be accomplished during each phase of commissioning, including the personnel intended to accomplish each of the activities. 2. A listing of the specific equipment, appliances or systems to be tested and a description of the tests to be performed. 3. Functions to be tested including, but not limited to, calibrations and economizer controls. 4. Conditions under which the test will be performed. Testing shall affirm winter and summer design conditions and full outside air conditions. 5. Measurable criteria for performance.	N/A
C408.2.2	Systems Adjusting and Balancing		Testing and Air Balancing provided in specs.	HVAC systems shall be balanced in accordance with generally accepted engineering standards. Air and water flow rates shall be measured and adjusted to deliver final flow rates within the tolerances provided in the product specifications. Test and balance activities shall include air system and hydronic system balancing.	See specs
C408.2.2.1	Air Systems Balancing	Provided by third party NEBB certified balancer	Testing and Air Balancing provided in specs	Each supply air outlet and zone terminal device shall be equipped with means for air balancing in accordance with the requirements of Chapter 6 of the International Mechanical Code. Discharge dampers used for air-system balancing are prohibited on constant-volume fans and variable volume fans with motors 10 hp (18.6 kW) and larger. Air systems shall be balanced in a manner to first minimize throttling losses then, for fans with system power of greater than 1 hp (0.746 kW), fan speed shall be adjusted to meet design flow conditions. Exception: Fans with fan motors of 1 hp (0.74 kW) or less are not required to be provided with a means for air balancing.	See specs
C408.2.2.2	Hydronic Systems Balancing	Provided by third party NEBB certified balancer	Testing and water Balancing provided in specs.	Individual hydronic heating and cooling coils shall be equipped with means for balancing and measuring flow. Hydronic systems shall be proportionately balanced in a manner to first minimize throttling losses, then the pump impeller shall be trimmed or pump speed shall be adjusted to meet design flow conditions. Each hydronic system shall have either the capability to measure pressure across the pump, or test ports at each side of each pump. Exception: The following equipment is not required to be equipped with a means for balancing or measuring flow: 1. Pumps with pump motors of 5 hp (3.7 kW) or less. 2. Where throttling results in not greater than 5 percent of the nameplate horsepower draw above that required if the impeller were trimmed.	See Specs
C408.2.3	Functional Performance Testing		N/A	Functional performance testing specified in Sections C408.2.3.1 through C408.2.3.3 shall be conducted.	N/A
C408.2.3.1	Equipment		N/A	Equipment functional performance testing shall demonstrate the installation and operation of components, systems and system-to-system interfacing relationships in accordance with approved plans and specifications such that operation, function and maintenance serviceability for each of the commissioned systems are confirmed. Testing shall include all modes and sequence of operation, including under full-load, part-load and the following emergency conditions: 1. All modes as described in the sequence of operation. 2. Redundant or automatic back-up mode. 3. Performance of alarms. 4. Mode of operation upon a loss of power and restoration of power. Exception: Unitary or packaged HVAC equipment listed in the tables in Section C403.3.2 that do not require supply air economizers.	N/A
C408.2.3.2	Controls		N/A	HVAC and service water-heating control systems shall be tested to document that control devices, components, equipment and systems are calibrated and adjusted and operate in accordance with approved plans and specifications. Sequences of operation shall be functionally tested to document they operate in accordance with approved plans and specifications.	N/A
C408.2.3.3	Economizers		N/A	Air economizers shall undergo a functional test to determine that they operate in accordance with manufacturer's specifications.	N/A
C408.2.4	Preliminary Commissioning Report		N/A	A preliminary report of commissioning test procedures and results shall be completed and certified by the registered design professional or approved agency and provided to the building owner or owner's authorized agent. The report shall be organized with mechanical and service hot water findings in separate sections to allow independent review. The report shall be identified as "Preliminary Commissioning Report," shall include the completed Commissioning Compliance Checklist, Figure C408.2.4, and shall identify: 1. Itemization of deficiencies found during testing required by this section that have not been corrected at the time of report preparation. 2. Deferred tests that cannot be performed at the time of report preparation because of climatic conditions. 3. Climatic conditions required for performance of the deferred tests. 4. Results of functional performance tests. 5. Functional performance test procedures used during the commissioning process, including measurable criteria for test acceptance.	N/A
C408.2.4.1	Acceptance of Report		N/A	Buildings, or portions thereof, shall not be considered as acceptable for a final inspection pursuant to Section C105.2.6 until the code official has received the Preliminary Commissioning Report from the building owner or owner's authorized agent.	N/A
C408.2.4.2	Copy of Report		N/A	The code officialshall be permitted to require that a copy of the Preliminary Commissioning Report be made available for review by the code official.	N/A
C408.2.5	Documentation Requirements		N/A	The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent within 90 days of the date of receipt of the certificate of occupancy.	N/A
C408.2.5.1	System Balancing Report		Contractor to provide	A written report describing the activities and measurements completed in accordance with Section C408.2.2.	See Specs
C408.2.5.2	Final Commissioning Report		N/A	A report of test procedures and results identified as "Final Commissioning Report" shall be delivered to the building owner or owner's authorized agent. The report shall be organized with mechanical system and service hot water system findings in separate sections to allow independent review. The report shall include the following: 1. Results of functional performance tests. 2. Disposition of deficiencies found during testing, including details of corrective measures used or proposed. 3. Functional performance test procedures used during the commissioning process including measurable criteria for test acceptance, provided herein for repeatability. Exception: Deferred tests that cannot be performed at the time of report preparation due to climatic conditions.	N/A

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ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

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M003

HVAC SPECIFICATIONS

GENERAL

1. ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW, UNLESS OTHERWISE NOTED.

2. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, LOUISIANA CONSTRUCTION CODE, NATIONAL STANDARD PLUMBING CODE, NATIONAL ELECTRIC CODE, INTERNATIONAL ENERGY CODE 2012, AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.

3. THE WORK SHALL INCLUDE ALL DEMOLITION, LABOR, MATERIALS, EQUIPMENT, HOISTING AND RIGGING, SCAFFOLDING, DISASSEMBLY & REASSEMBLY OF EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE SYSTEM AND PROVIDE THE OWNER WITH A FULLY OPERATIONAL SYSTEM.

4. THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS, APPROVALS AND CERTIFICATES OF COMPLIANCE AND TRANSMIT SAME TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS FOR INSTALLATION, CONNECTION, EXTENSION OR MODIFICATIONS TO ALL UTILITY SERVICES WITH RESPECTIVE PROVIDERS.

6. SAFETY ASPECTS OF THE WORK ARE EXCLUSIVELY THE RESPONSIBILITY OF THE CONTRACTOR.

7. CONTRACTOR'S PRICE SHALL INCLUDE ALL HANGERS, INSERTS, COUPLINGS, TESTING, TOOLS, SUPERVISION, LABOR, COORDINATION, MATERIALS, EQUIPMENT, REMOVALS, CAPPING, PATCHING, DISPOSAL AND OTHER NECESSARY ITEMS TO PROVIDE THE HVAC INSTALLATION.

8. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION, OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER SHALL BE INCLUDED IN THE WORK AS IF IT WERE SPECIFIED OR INDICATED ON THE.

9. BEFORE SUBMITTING BID, CONTRACTOR SHALL CONDUCT ON-SITE INSPECTION TO VERIFY EXISTING CONDITIONS. ALL WORK SHOWN IS A SCHEMATIC REPRESENTATION OF DESIGN INTENT. COORDINATION OF EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED AND SHALL BE PROVIDED AT NO ADDITIONAL COST. ANY MAJOR DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

10. CONTRACTOR SHALL VERIFY ALL INDICATED CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER. THE DRAWINGS REFLECT CONDITIONS REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS; OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER, BUT CANNOT BE GUARANTEED BY THE ENGINEER.

11. EQUIPMENT, MATERIALS AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTED COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL KEEP THE WORK IN GOOD REPAIR FOR ONE YEAR AFTER THE DATE OF FINAL APPROVAL. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, CORRECT AND REPAIR PROMPTLY ANY AND ALL BREAKS, FAILURES OR WEAR DUE TO FAULTY MATERIALS, WORKMANSHIP OR EQUIPMENT, AND ALL SETTLEMENTS OF SURFACE THAT MAY OCCUR DURING THAT PERIOD.

12. WHERE POSSIBLE, STORE DUCTWORK AND EQUIPMENT INSIDE AND PROTECT FROM WEATHER. INSULATION AND ACOUSTIC MATERIAL EITHER LOOSE OR INSTALLED WITHIN DUCTWORK OR EQUIPMENT CAN ABSORB DAMAGING MOISTURE AND BECOME SOILED IF LEFT OUTDOORS PRIOR TO BEING INSTALLED. ABSORBED MOISTURE CAN FOSTER BIOLOGICAL GROWTH AND CAN LEAD TO INDOOR AIR QUALITY PROBLEMS LATER. WHERE NECESSARY TO STORE OUTSIDE, STORE ABOVE GRADE. TO MINIMIZE DAMAGE ALL SUCH MATERIAL OR EQUIPMENT STORED OUTDOORS SHALL BE SHRINK-WRAPPED PRIOR TO SHIPMENT TO THE PROJECT. THE SHRINK-WRAP SHALL ONLY BE REMOVED ONCE THE MATERIALS AND EQUIPMENT HAVE BEEN MOVED INTO ENCLOSED SPACES WITHIN THE BUILDING.

13. ALL NECESSARY CUTTING AND PATCHING IN FLOOR SLABS, ROOF SLABS, WALLS AND CEILINGS FOR THE HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR. ALL CUTTING AND PATCHING SHALL MATCH EXISTING OR NEW FINISHES AS REQUIRED. ALL PAINTING IN AREAS WITH COMPLETE FINISH RENOVATIONS TO BE BY GENERAL CONTRACTOR. COORDINATE PAINT TYPE AND COLOR WITH ARCHITECT.

14. PIPE AND DUCT LOCATIONS ARE DIAGRAMMATIC AND ARE DEPENDENT ON FIELD LOCATIONS. PIPES AND DUCTS ARE TO BE RUN CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED.

15. FINAL LOCATION OF ALL CEILING DIFFUSERS, RETURN REGISTERS, SUPPLY/RETURN GRILLES, AND CEILING GRILLES SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. QUANTITIES OF THESE DEVICES SHALL BE PROVIDED AS SHOWN ON THE HVAC DRAWINGS. ANY DISCREPANCIES BETWEEN THE HVAC DRAWINGS AND THE ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION PRIOR TO BID.

16. ALL BIDDERS ARE REQUIRED TO REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL MEP/FP COMPONENTS FOR FULL INTEGRATION INTO ARCHITECTURAL DESIGN. BIDDERS ARE TO IMMEDIATELY CALL TO THE ARCHITECT'S ATTENTION ANY DISCREPANCIES IN QUANTITIES, TYPES AND SCOPE FOR ALL DISCIPLINES/TRADES.

17. SUBMITTALS, AS-BUILTS, AND TRAINING
   a. PRIOR TO COMMENCING HVAC WORK, THE CONTRACTOR SHALL SUPPLY ALL REQUIRED DRAWINGS SHOWING LAYOUT, SIZES, DIFFUSER LOCATIONS, DAMPER LOCATIONS AND ALL OTHER MECHANICAL DEVICES NECESSARY TO COMPLETE THE INSTALLATION. CONTRACTOR SHALL CONFIRM THAT COORDINATION HAS BEEN CERTIFIED BY ALL TRADES.

   b. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR THE STAMP OF THE CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS WILL BE RETURNED REJECTED. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING WITH THE CONSTRUCTION DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWING STAMP.

   c. REVIEW OF SHOP DRAWINGS BY ENGINEER SHALL BE LIMITED TO ONE REVIEW, AND A SECOND REVIEW OF ANY REQUIRED RESUBMITTED DATA. IF ENGINEER IS REQUIRED TO RETURN SHOP DRAWINGS FOR A THIRD (OR MORE) SUBMITTAL AND REVIEW, CONTRACTOR IS LIABLE FOR PAYING ENGINEER FOR TIME SPENT ON SUBSEQUENT REVIEWS AS PER THE ENGINEER'S STANDARD HOURLY RATE SCHEDULE.

   d. RECORD AS-BUILT DRAWINGS SHALL ALSO BE SUPPLIED AFTER COMPLETION OF THE WORK SHOWING ANY ALTERATIONS, ADDITIONS AND/OR DELETIONS TO THE SYSTEM INSTALLED.

   e. SUBMIT CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL SHOP DRAWINGS INCLUDING SEQUENCE OF OPERATION. SUBMIT BOOK BOUND OPERATING AND SERVICE MANUAL, WHICH SHALL INCLUDE COPIES OF ALL SHOP DRAWINGS FOR THE CLIENT.

   f. CONTRACTOR SHALL DEMONSTRATE TO OWNER'S OPERATING PERSONNEL AND INSTRUCT THEM IN THE PROPER OPERATION OF ALL HVAC EQUIPMENT AND SYSTEMS.

18. SEE ARCHITECTURAL REFLECTED CEILING PLAN (RCP), DRAWINGS AND FLOOR PLANS FOR LOCATION OF ALL CEILING MOUNTED DEVICES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL WALL MOUNTED DEVICES.

19. INSTALL ALL DUCTWORK IN STRICT ADHERENCE TO THE CEILING HEIGHTS INDICATED ON THE ARCHITECT'S DRAWINGS. CONSULT WITH OTHER CONTRACTORS AND IN CONJUNCTION WITH THE OTHER CONTRACTORS TO AVOID CONFLICTS, ESTABLISH THE NECESSARY SPACE REQUIREMENTS FOR EACH TRADE IN COORDINATION WITH THE ARCHITECT.

20. WHERE PIPE AND/OR DUCTWORK PENETRATE RATED WALLS, THE SPACE BETWEEN THE INSULATION AND THE WALL SHALL BE SEALED WITH NON-COMBUSTIBLE MATERIAL IN AN APPROVED MANNER.

21. ALL PIPING AND DUCTWORK SHALL BE SUSPENDED FROM BUILDING STRUCTURE ONLY. HVAC CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS NECESSARY TO SUPPORT PIPES AND DUCTS FROM BUILDING STRUCTURE. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE THE SOLE DETERMINANT AS TO PERMISSIBILITY OF HANGING NEW WORK FROM BUILDING STRUCTURE.

22. THE SHEET METAL DUCTWORK SHALL, WHETHER INDICATED OR NOT, RISE AND/OR DROP AND/OR CHANGE IN SHAPE TO CLEAR ANY AND ALL OTHER DUCTWORK, CONDUITS, LIGHTING FIXTURES, PLUMBING AND HEATING/COOLING MAINS TO MAINTAIN THE DESIRED CEILING HEIGHTS AND TO PROVIDE ADEQUATE MAINTENANCE ROOM AND HEADROOM IN MECHANICAL EQUIPMENT ROOMS. THE DRAWINGS, IN GENERAL, DO NOT SHOW ALL RISES, DROPS AND DUCT TRANSITIONS REQUIRED. THE DRAWINGS SHOW GENERAL ROUTING REQUIREMENTS ONLY.

23. CONTRACTOR TO PROVIDE PRELIMINARY BALANCING REPORT FOR ALL NEW AND MODIFIED SYSTEMS. CONTRACTOR TO PROVIDE BALANCING REPORT UPON COMPLETION OF ALL INSTALLED SYSTEMS. THE BALANCING CONTRACTOR SHALL BE NEBB OR AABC CERTIFIED AND SHALL BE INDEPENDENT OF THE CONTRACTOR THE MECHANICAL WORK. FURNISH THREE COPIES OF A BALANCE REPORT IN NEBB OR AABC APPROVED FORMAT TO THE ENGINEER UPON COMPLETION OF SYSTEM BALANCING.

24. AIR BALANCING: CONTRACTOR SHALL SUBMIT BOTH PRELIMINARY AND FINAL REPORT INDICATING CFM, SP, RPM, AMPS, AND OUTSIDE AIR CFM, INDICATING PERFORMANCE CHARACTERISTIC FOR ALL FANS AND AIR CONDITIONING UNITS, INCLUDING EXHAUST AIR SYSTEMS. PRIOR TO TESTING CLEAN AND COMB ALL COILS AS REQUIRED. ALL REPORTS SHALL INDICATE PRELIMINARY READINGS PRIOR TO BALANCING AND FINAL READINGS AFTER BALANCING HAS BEEN COMPLETED. IF IT IS DETERMINED THAT DRIVE CHANGES ARE REQUIRED, CONTRACTOR SHALL PROVIDE ALL NECESSARY NEW COMPONENTS. FINAL REPORT TO BE COMPLETED AFTER REQUIRED ADJUSTMENTS AND SHEAVE CHANGES ARE MADE.

25. WATER BALANCING: CONTRACTOR SHALL SUBMIT REPORT FOR WATER SYSTEM INDICATING GPM TO PIPE RISER AND EQUIPMENT, GPM, TDH, AMPS, HP, INDICATING PERFORMANCE CHARACTERISTIC FOR ALL PUMPS. ALL REPORTS SHALL NDICATE PRELIMINARY READINGS PRIOR TO BALANCING AND FINAL READINGS AFTER BALANCING HAS BEEN COMPLETED. IF IT IS DETERMINED THAT DRIVE CHANGES ARE REQUIRED, CONTRACTOR SHALL PROVIDE NECESSARY NEW COMPONENTS. FINAL REPORT TO BE COMPLETED AFTER REQUIRED ADJUSTMENT AND SHEAVE CHANGES ARE MADE.

26. PROVIDE ACCESS DOORS TO BE INSTALLED IN GENERAL CONSTRUCTION WHICH WILL BE REQUIRED FOR THE PROPER OPERATION AND MAINTENANCE OF ALL CONCEALED HVAC EQUIPMENT, DAMPERS, VALVES, AND OTHER SIMILAR DEVICES. PREPARE A LIST AND SUBMIT TO THE GENERAL CONTRACTOR FOR HIS INSTALLATION.

27. ALL PIPING AND DUCTWORK PENETRATIONS THROUGH FIRE RATED PARTITIONS FLOORS AND CEILINGS TO BE STEEL SLEEVED AND SEALED WITH 3M BRAND UL RATED FIRE BARRIER CAULK OR APPROVED EQUAL.

28. EXTERIOR INSTALLATIONS TO BE WEATHERPROOF IN ALL RESPECTS.

29. EXTERIOR MATERIALS AND EQUIPMENT SHALL BE PAINTED TO PREVENT CORROSION, AND IN COLOR DETERMINED BY ENGINEER.

30. ALL DAMPER LOCATIONS, DUCT ACCESS PANELS, EQUIPMENT DISCONNECTS, VALVES, INSPECTION FITTINGS, ETC. REQUIRING FUTURE ACCESS OR SERVICE SHALL BE MARKED VISIBLY WITH CLEARLY DISTINGUISHABLE TAGS ADVISING GENERAL CONTRACTOR (AND CEILING CONTRACTOR) OF ACCESS REQUIREMENTS.

DUCTWORK

31. PROVIDE ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR SHEET METAL DUCTWORK, FITTINGS, DAMPERS, TURNING VANES, ACCESS DOORS, PLENUMS, FLEXIBLE CONNECTIONS, AND SUPPORTS AND INSTALL PER LATEST SMACNA STANDARDS. ALL DUCTWORK JOINTS SHALL BE SEALED AIR-TIGHT WITH APPROVED DUCT SEALANT, SIMILAR TO 3M-900.

   a. DUCTWORK SHALL CONFORM TO THE LATEST SMACNA STANDARDS FOR LOW PRESSURE OR HIGH PRESSURE DUCTWORK AS REQUIRED.

   b. LOW PRESSURE DUCTWORK SHALL BE DEFINED AS ALL DUCTS WITH VELOCITIES LESS THAN 2,500 FPM AND STATIC PRESSURES OF 0" TO 2" (POSITIVE OR NEGATIVE).

   c. SEAL ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK WITH HARD CAST.

   d. TESTING
      1. ALL HIGH PRESSURE DUCTWORK SHALL BE LEAK TESTED IN ACCORDANCE WITH THE SMACNA REQUIREMENTS.

32. ANY DAMAGED INSULATION ON ANY EXISTING DUCTWORK OR PIPING WITHIN THE AREA UNDER CONSTRUCTION SHALL BE REPAIRED WITH SAME TYPE OF INSULATION AS EXISTING. (EXCEPT ASBESTOS)

33. PROVIDE MANUAL BALANCING DAMPERS AS REQUIRED TO PROPERLY BALANCE THE AIR DISTRIBUTION SYSTEM. THE FOLLOWING MINIMUM STANDARDS SHALL GOVERN:

   a. ALL SUPPLY AIR MAIN BRANCHES FROM TRUNK, EACH SPLIT, AND ALL SUBBRANCHES FROM MAINS SHALL HAVE BALANCING DAMPERS.

   b. EXHAUST AND RETURN MAIN BRANCHES FROM TRUNK, EACH SPLIT AND ALL SUBBRANCHES FROM MAINS SHALL HAVE BALANCING DAMPERS.

34. IF DAMPER IS NOT ACCESSIBLE, OR IS LOCATED ABOVE A PLASTER, DRYWALL OR MILLWORK CEILING, PROVIDE A REMOTE DAMPER ACTUATOR AND VOLUME DAMPER AS MANUFACTURED BY YOUNG REGULATOR MODEL 896-C WITH NO. 1200A RIGHT ANGLE WORM GEAR AND DAMPER MODEL 820 OR APPROVED EQUAL.

35. PROVIDE ALL FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, SMOKE DETECTORS, AND ASSOCIATED CONTROLS AND ALARMS AS REQUIRED BY CODE WHEN PENETRATING RATED WALLS AND SLABS.

36. ALL FIRE DAMPERS, SMOKE CONTROL DAMPERS, ETC. SHALL BE CONSTRUCTED SUCH THAT NO PARTS ARE MOUNTED DIRECTLY IN THE AIRSTREAM. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS OF DAMPERS. THEY ARE TO BE LOCATED AND CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND TO LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. FIRE DAMPERS OR SMOKE DAMPERS ARE TO BE INSTALLED IN ALL FIRE OR SMOKE RATED PARTITIONS WHETHER SHOWN OR NOT. CONTRACTOR TO VERIFY THE RATINGS OF ALL PARTITIONS WITH ARCHITECTURAL DRAWINGS.

37. DUCT SMOKE DETECTORS SHALL BE MOUNTED IN THE SUPPLY (RETURN) AIR DUCTWORK UPSTREAM OF ANY BRANCHES OR OUTLETS FOR ALL AIR HANDLING SYSTEMS 2000 CFM OR GREATER IN CAPACITY. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, MOUNTED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE ELECTRICAL CONTRACTOR TO ENSURE THAT THE SYSTEM FAN(S) SHUT DOWN UPON DETECTION OF THE PRODUCTS OF COMBUSTION AND AN ALARM SIGNAL IS INDICATED THROUGHOUT THE ENTIRE BUILDING THROUGH THE CENTRAL FIRE ALARM SYSTEM.

38. SEAL ALL JOINTS AND FITTING CONNECTIONS AS REQUIRED TO LIMIT AIR LEAKAGE TO 5% OF TOTAL DESIGN AIR PASSING THROUGH A TESTED SECTION TEST PRESSURE SHALL BE 1.5 TIMES THE MAXIMUM OPERATING PRESSURE EXPECTED TO EXIST IN THE TEST SECTION. ALL DUCTS FROM AN AIR-HANDLING UNIT OR FREE-STANDING FAN TO THE BOX VALVES, OR TO THE NON-BOX SUPPLY/RETURN/EXHAUST TERMINALS SHALL BE LEAK TESTED SHORT DUCT RUNS (50 FEET OR LESS) OPERATING AT 0.15" W.C. SP OR LESS, AND INSTALLED DOWNSTREAM OF FAN COILS, HEAT PUMPS OR BOXES OR CONNECTED TO SMALL EXHAUST FANS, ARE EXEMPT FROM LEAK TESTS.

39. ALL DUCTWORK DISCHARGING OR TAKING AIR IN FROM ROOF SHALL DO SO AT A MINIMUM OF 18" ABOVE ROOF. MAINTAIN MINIMUM 10-0" DISTANCE BETWEEN INTAKES AND LOT LINES, OTHER BUILDINGS/STRUCTURES, EXHAUST FAN DISCHARGES, RADON VENTS, PLUMBING VENTS, CHIMNEYS/FLUES, PARKING LOTS/DRIVEWAYS, LOADING DOCKS AND ALL OTHER SIMILAR CONTAMINANT SOURCES. OPENINGS TO BE COVERED WITH 1/4" MESH GALVANIZED HARDWARE CLOTH AND FIRMLY CONNECTED TO WALLS ON ALL SIDES TO RESIST 20 LB./SQ.FT. FORCE.

40. MAINTAIN A MINIMUM OF 10-0" DISTANCE BETWEEN AIR INTAKES AND ANY NEW OR EXISTING EXHAUST OUTLETS OR PLUMBING VENTS AT THE ROOF.

41. ALL TRANSITIONS FROM TRUNK OR SECTION DUCTS TO ROUND FLEXIBLE DUCTS SHALL BE MADE WITH 45-DEGREE WYES. DIRECT TAPS OF ROUND OR OVAL DUCT TO RECTANGULAR DUCT WILL NOT BE PERMITTED.

42. ALL AIR HANDLING EQUIPMENT SHALL BE ISOLATED FROM SUPPLY, RETURN AND EXHAUST DUCTS WITH DURO-DYNE NEOPRENE COATED FABRIC. ALLOW MINIMUM OF 1-1/2" SLACK.

43. WHERE POSSIBLE, ALL DUCT ELBOWS SHALL HAVE LONG RADIUS TURNS WHEN SQUARE THROAT ELBOWS ARE USED, THEY SHALL BE FITTED WITH TURNING VANES. SMOOTH RADIUS RECTANGULAR ELBOWS WITH A R/W RATIO LESS THAN 1.0 SHALL BE FITTED WITH SPLITTER VANES. 45-DEGREE WYE BE USED AT CONNECTIONS TO MAINS.

44. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 10'-0". FLEXIBLE DUCTS SHALL BE FLEXIBLE FACTORY INSULATED AIR DUCT, UL181, CLASS 1, WITH WIRE HELIX BONDED TO VINYL COATED FIBERGLASS MESH, INSULATED WITH MINIMUM FIBERGLASS INSULATION VALUE OF R=4.2, PROTECTED BY FIBERGLASS SCRIM AND JACKETED WITH SCRUFF-RESISTANT BLACK POLYETHYLENE, HART & COOLEY F114 OR APPROVED EQUAL. STRAP AND TAPE TO METAL DUCT AND OUTLETS. FLEXIBLE DUCT SHALL BE FULLY EXTENDED AND SUPPORTED MAXIMUM 5'-0" SPACING.

45. PROVIDE ALL AIR OUTLETS AND RETURNS. ALL EXHAUST OUTLETS AND DAMPERS SHALL BE ALUMINUM. PROVIDE FRAMES AS REQUIRED TO MATCH SURROUNDING CONSTRUCTION. AIR OUTLETS AND RETURNS SHALL BE SELECTED FOR A MAXIMUM OF NC 30. FINISHES TO BE SELECTED BY ARCHITECT.

PIPING

46. PROVIDE ALL PIPING, FITTINGS, SPECIALTIES, TRAPS, ETC. AND ACCESSORIES SUITABLE FOR THE SERVICE.

47. INSTALL PIPING WITH DUE REGARD FOR EXPANSION AND PROVIDE ALL REQUIRED PIPE ANCHORS CONNECTED TO BUILDING STRUCTURE AND EXPANSION COMPENSATION AS REQUIRED FOR SPECIFIC MATERIAL AND OPERATING CONDITION FOR EACH PIPING SYSTEM.

48. PROVIDE MANUAL AIR VENTS AT BIBBS ALL HIGH POINTS IN SYSTEM, PROVIDE DRAIN DOWN VALVES WITH HOSE BIBS AT LOW POINTS. SUPPORT PIPING WITH HANGERS FROM APPROVED CONCRETE INSERTS OR EXPANSION SHIELDS OR BEAM CLAMPS AND PROVIDE ALL REQUIRED SUPPLEMENTARY STEEL ANGLES, PLATES, AND CHANNELS.

49. PROVIDE SHUT OFF VALVES AND UNIONS OR FLANGES IN SUPPLY AND RETURN TO ALL EQUIPMENT.

50. INSTALL SLEEVES FOR ALL PIPES WHICH PASS THROUGH WALLS, FLOORS AND CEILINGS. WHERE PIPES ARE TO BE INSULATED, THE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMMODATE INSULATION. SLEEVES SHALL BE FLUSH WITH FINISHED SURFACES AT BOTH ENDS. ON FINISHED SURFACES IN EXPOSED AREAS PROVIDE ESCUTCHEONS COMPATIBLE WITH FINISH. UNDERGROUND SLEEVES SHALL BE CAULKED AND WATERPROOFED WITH LEAD.

51. PROVIDE UNIONS IN ALL PIPING CONNECTIONS TO EQUIPMENT.

52. PROVIDE PIPE ANCHORS, GUIDES, AND EXPANSION JOINTS OR LOOPS IN ALL H.W.S. AND H.W.R. PIPING AND SEGMENTS OF SUCH PIPE THAT EXCEED 30'-0" IN LENGTH.

53. ALL PIPING TO BE STENCILED TO IDENTIFY SERVICE AND DIRECTION OF FLOW STENCILS SHALL HAVE PRESSURE SENSITIVE ADHESIVE BACKING.

54. ALL HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS AT ALL CHANGES IN DIRECTION, AT ALL VALVES, AND AT DISTANCES NO GREATER THAN 10 FEET FOR PIPE SIZES UP TO 2" IPS. PIPE HANGERS SHALL BE MANUFACTURED BY CRANE OR GRINNELL. RODS SHALL BE MERCHANT QUALITY. NO STRAP-STEEL, WIRE OR "C" CLAMP TYPE HANGERS SHALL BE USED. HANGERS SHALL BE MOUNTED OUTSIDE INSULATION WITH 16-GAUGE GALVANIZED STEEL SLEEVES USED TO PROTECT THE INSULATION. HANGERS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS AND NOT FROM OTHER PIPES, DUCTS, ETC. WOODEN PLUGS SHALL NOT BE USED.

55. THERE SHALL BE NO DISSIMILAR METAL TO METAL CONTACT AT SUPPORTS. PROVIDE 1/8" THICK INSULATION STRIPS UNDER UNINSULATED PIPING AT SUPPORTS. HANGERS AND SUPPORTS SHALL BE INSTALLED OUTSIDE OF INSULATION ON INSULATED PIPING.

56. ALL PIPING INSTALLED ON THE ROOF SHALL BE SUPPORTED BY PILLOW BLOCK PIPE STANDS AS MANUFACTURED BY MIRO INDUSTRIES OR APPROVED EQUAL.

57. INTERIOR CONDENSATE DRAINS SHALL BE PVC (OR COPPER). EXTERIOR CONDENSATE DRAINS SHALL BE PVC. INTERIOR PIPING SHALL BE INSULATED WITH 1/2" FIBERGLASS, 3 LBICU.FT. DENSITY WITH A FACTORY APPLIED GENERAL PURPOSE VAPOR BARRIER FIRE RETARDANT JACKET. VAPOR BARRIER MASTIC SHALL BE USED TO SEAL JOINTS. CONDENSATE LINES SHALL BE PITCHED 1/8" PER FOOT TO DRAIN. PROVIDE CONDENSATE DRAINS FROM ALL EVAPORATORS AND COILS.

58. REFRIGERANT PIPING TO BE COPPER TUBING, INSULATED WITH 1" ARMAFLEX PIPE INSULATION. REFRIGERANT PIPING EXPOSED TO THE OUTDOORS SHALL BE COVERED WITH PVC PLASTIC JACKET IN ADDITION TO INSULATION. JACKET SHALL BE SIMILAR TO JOHNS-MANVILLE ZESTON 2000 OR EQUAL

59. COPPER TUBE AND FITTINGS

   A. DRAWN-TEMPER COPPER TUBE: ASTM B88, TYPE L.
   B. DWV COPPER TUBE: ASTM B306, TYPE DWV.
   C. CAST-COPPER, SOLDER-JOINT FITTINGS: ASME B16.18, PRESSURE FITTINGS.
   D. WROUGHT-COPPER, SOLDER-JOINT FITTINGS: ASME B16.22, PRESSURE FITTINGS.
   E. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT ENDS.
   F. CAST COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SUFRACES AND SOLDER-JOINT OR THREADED ENDS.
   G. WROUGHT COPPER UNIONS: ASME B16.22.
   H. COPPER-TUBE, MECHANICALLY FORMED TEE FITTING: FOR FORMATING T-BRANCH ON COPPER WATER TUBE.
      a. DESCRIPTION: TEE FORMED IN COPPER TUBE IN ACCORDANCE WITH ASTM F2014
   I. GROOVED, MECHANICAL-JOINT, COPPER TUBE APPURTENANCES:
      a. GROOVED-END COPPER FITTINGS: ASTM B75, COPPER TUBE OR ASTM B584, BRONZE CASTINGS.
      b. GROOVED-END-TUBE COUPLINGS: TO FIT COPPER-TUBE DIMENSIONS; RIGID PATTERN UNLESS OTHERWISE INDICATED; GASKETED FITTING EPDM-RUBBER GASKET RATED FOR MINIMUM 230 DEGREE F. FOR USE WITH FERROUS HOUSING, AND STEEL BOLTS AND NUTS; 300 PSIG MINIMUM CWP PRESSURE RATING TRANSITION FITTINGS.
   J. PLASTIC-TO-METAL TRANSITION FITTINGS:
      a. ONE PIECE FITTING WITH ONE THREADED BRASS OR COPPER INSERT AND ONE SOLVENT-CEMENT-JOINT END OF MATERIAL AND WALL THICKNESS TO MATCH PLASTIC PIPE MATERIAL.
   K. PLASTIC-TO-METAL TRANSITION UNIONS:
      a. BRASS OR COPPER END SOLVENT-CEMENT-JOINT END OF MATERIAL AND WALL THICKNESS TO MATCH PLASTIC PIPE MATERIAL.

60. DIELECTIC FITTINGS

   A. GENERAL REQUIREMENTS : ASSEMBLY OF COPPER ALLOY AND FERROUS MATERIALS WITH SEPARATING NONCONDUCTIVE INSULATING MATERIAL INCLUDE END CONNECTIONS COMPATIBLE WITH PIPES TO BE JOINED.
   B. DIELECTRIC UNIONS:
      a. STANDARD: ASSE 1079.
      b. PRESSURE RATING: 150 PSIG.
      c. END CONNECTIONS: SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS.
   C. DIELECTRIC FLANGES:
      a. STANDARD: ASSE 1079.
      b. FACTORY-FABRICATED, BOLTED, COMPANION-FLANGE ASSEMBLY.
      c. PRESSURE RATING: 150 PSIG.
      d. END CONNECTIONS; SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS; THREADED SOLDER-JOINT COPPER ALLOY AND THREADED FERROUS.
   D. DIELECTRIC-FLANGE INSULATING KITS
      a. NONCONDUCTING MATERIALS FOR FIELD ASSEMBLY OF COMPANION FLANGES.
      b. PRESSURE RATING: 150 PSIG.
      c. GASKET: NEOPRENE OR PHENOLIC.
      d. BOLD SLEEVES: PHENOLIC OR POLYETHYLENE.
      e. WASHERS: PHENOLIC WITH STEEL BACKING WASHERS.
   E. DIELECTRIC NIPPLES
      a. STANDARD: IAPMO PS 66
      b. ELECTROPLATED STEEL NIPPLE, COMPLYING WITH ASTM F 1545.
      c. PRESSURE RATING: 300 PSIG AT 225 DEGREE F.
      d. END CONNECTIONS: MALE THREADED OR GROOVED.
      e. LINING: INERT AND NONCORROSIVE PROPYLENE.

61. PIPING APPLICATIONS:
   A. CONDENSER-WATER PIPING, ABOVEGROUND, NPS 2 AND SMALLER, SHALL BE OF ANY OF THE FOLLOWING:
      a. TYPE L, DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS, AND SOLDERED JOINTS.
   B. CONDENSER-WATER PIPING, ABOVEGROUND, NPS 2-1/2 AND LARGER, SHALL BE ANY OF THE FOLLOWING:
      a. TYPE L, DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS, AND SOLDERED JOINTS.
   C. MAKEUP-WATER PIPING INSTALLED ABOVEGROUND SHALL BE THE FOLLOWING:
      a. TYPE L, DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS, AND SOLDERED JOINTS.
   D. CONDENSATE-DRAIN PIPING, COPPER: TYPE M, TYPE DWV, DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS, AND SOLDERED JOINTS. TO BE USED IN SPACES USED AS RETURN AIR PLENUMS.
   E. CONDENSATE-DRAIN PIPING, PVC: SCHEDULE 40 PVC PLASTIC PIPE AND FITTINGS AND SOLVENT-WELDED JOINTS.
   F. AIR VENT PIPING:
      a. INLET: SAME AS SERVICE WHERE INSTALLED WITH METAL-TO-PLASTIC TRANSITION FITTINGS FOR PLASTIC PIPING SYSTEMS ACCORDING TO PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS.

62. OUTLET: TYPE K, ANNEALED-TEMPER COPPER TUBING WITH SOLDERED OR FLARED JOINTS.

INSULATION

63. INSULATE ALL SUPPLY AND OUTSIDE AIR DUCTWORK, ALL PLENUMS BEHIND LOUVERS, AND WHERE NOTED ON THE DRAWINGS.

64. INSULATE ALL PIPING SYSTEMS, EXCEPT CONDENSER WATER PIPING.

65. INSULATION MATERIAL, JACKETS AND ADHESIVES SHALL COMPLY WITH ASTM E-84 AND SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE RATING OF 50.

66. DUCTWORK INSULATION

   a. SUPPLY, RETURN AND FRESH AIR DUCTWORK, SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS DUCT WRAP INSULATION (R-8) WITH FSK VAPOR BARRIER. ALL JOINTS AND SEAMS SHALL BE SEALED WITH FSK PRESSURE SENSITIVE DUCT TAPE AND MASTIC. FIRE HAZARD RATING SHALL MEET UL725, NFPA 225. DUCT LINER AND DUCT MASTIC INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84 ALL LAPS AND JOINTS SEALED WITH BENJAMIN FOSTER 85-20.

   b. DUCT SIZES NOT CALLED OUT SHALL BE DETERMINED BASED ON 0.08" S.P. LOSS OR LESS PER 100 FT. OF LENGTH.

67. PIPING INSULATION

   a. PIPE INSULATION SHALL BE PER ENERGY CONSERVATION CONSTRUCTION C

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FUTURE SCOPE

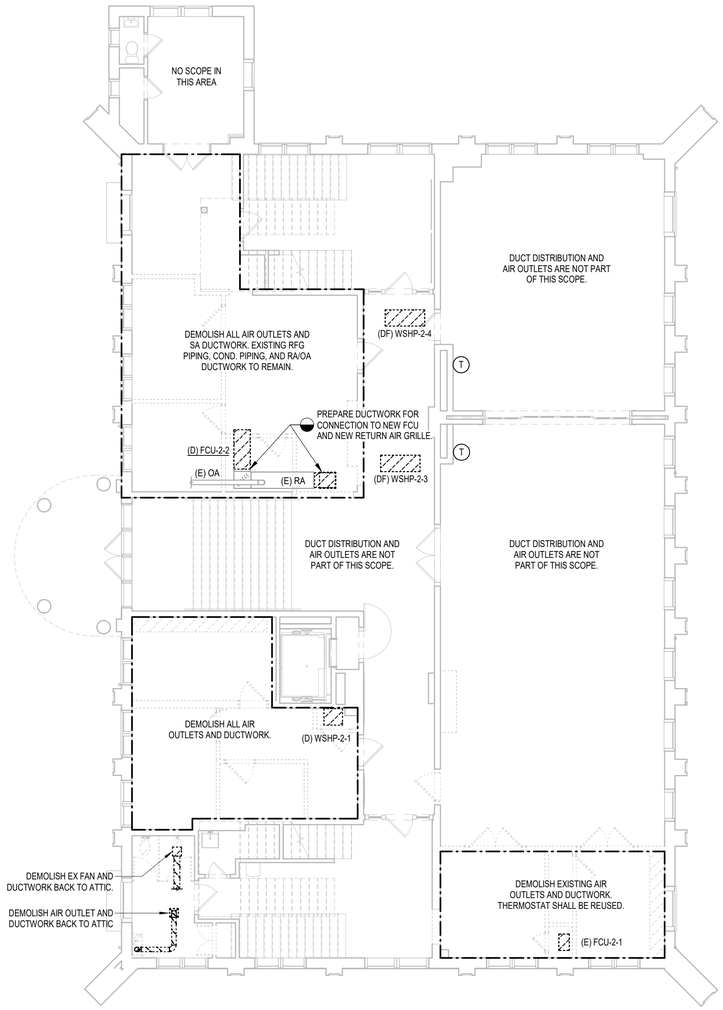
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GENERAL DEMOLITION NOTES

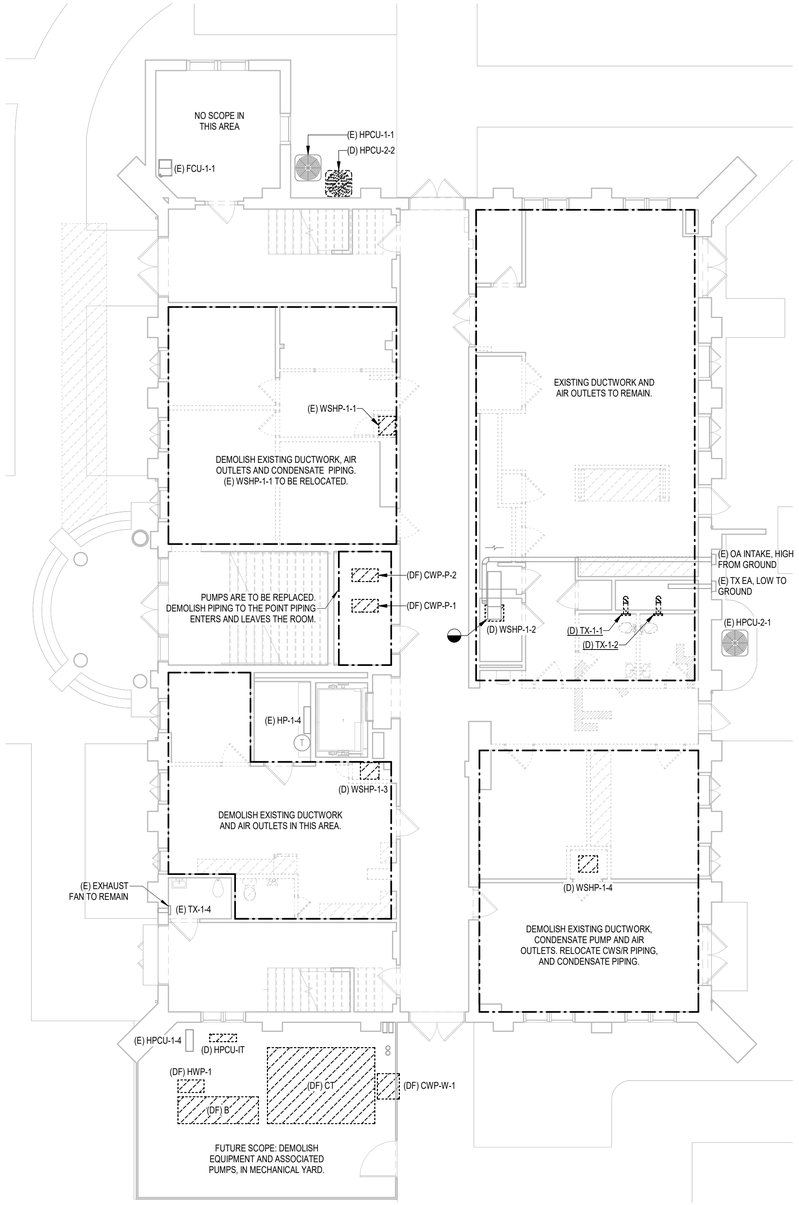
1. DEMOLISH EQUIPMENT AS SHOWN.
2. CLEAN EXISTING DRAIN PANS AND CONFIRM EXISTING LEAK DETECTORS ARE OPERATIONAL. REPLACE AS REQUIRED.
3. ALL DUCTWORK AND AIR OUTLETS SHALL REMAIN, EXCEPT WHERE NOTED. PROVIDE NEW FLEX CONNECTION TO UNIT ON SUPPLY AND RETURN OPENING DIMENSIONS. SEE DETAILS.
4. CONTRACTOR TO FIELD MODIFY CWS/R PIPING PRIOR TO THE HOSE KIT ASSEMBLY IN ORDER TO ACCOUNT FOR THE NEW WSHP DIMENSIONS. PROVIDE NEW HOSE KIT ASSEMBLIES FOR ALL NEW WSHP. ASSUME 3 FEET OF REVISED COPPER PIPING PER WSHP.

FUTURE REPLACEMENT SCOPE DEMOLITION NOTES

1. DEMOLISH EQUIPMENT AS SHOWN.
2. CLEAN EXISTING DRAIN PANS AND CONFIRM EXISTING LEAK DETECTORS ARE OPERATIONAL. REPLACE AS REQUIRED.
3. ALL DUCTWORK AND AIR OUTLETS SHALL REMAIN, EXCEPT WHERE NOTED. PROVIDE NEW FLEX CONNECTION TO UNIT ON SUPPLY AND RETURN OPENING DIMENSIONS. SEE DETAILS.
4. CONTRACTOR TO FIELD MODIFY CWS/R PIPING PRIOR TO THE HOSE KIT ASSEMBLY IN ORDER TO ACCOUNT FOR THE NEW WSHP DIMENSIONS. PROVIDE NEW HOSE KIT ASSEMBLIES FOR ALL NEW WSHP. ASSUME 3 FEET OF REVISED COPPER PIPING PER WSHP.



2 M101 MECHANICAL HVAC - SECOND FLOOR - DEMOLITION
1/8" = 1'-0"



1 M101 MECHANICAL HVAC - FIRST FLOOR - DEMOLITION
1/8" = 1'-0"

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HVAC - FIRST AND SECOND FLOOR PLAN - DEMOLITION

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M101

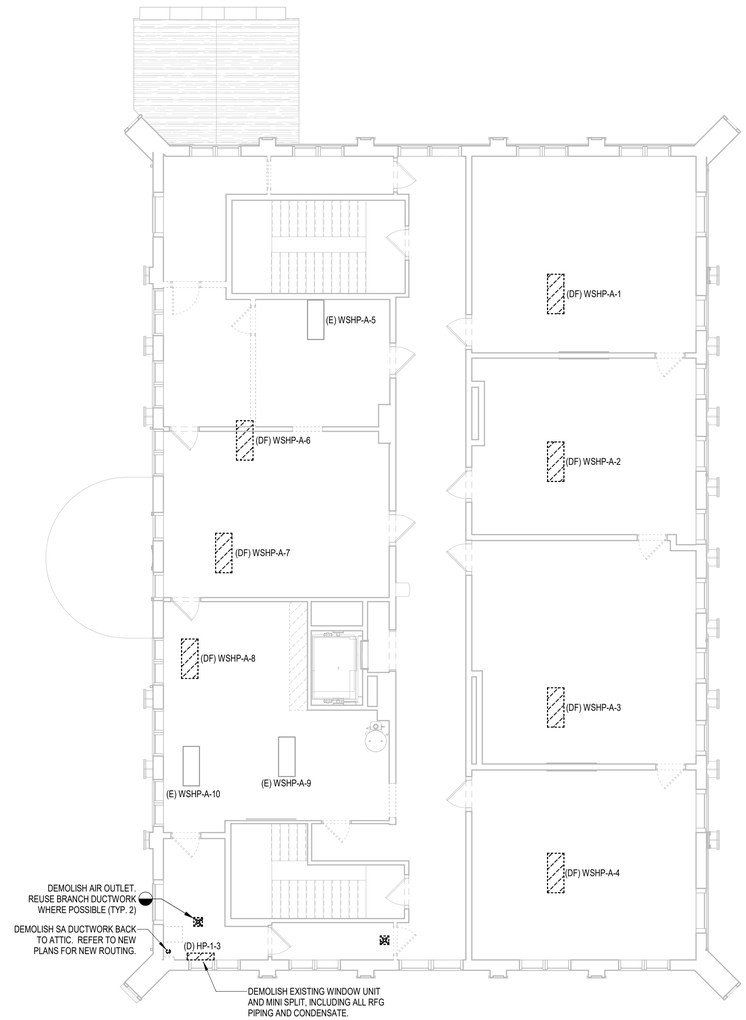
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FUTURE SCOPE

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FUTURE REPLACEMENT SCOPE DEMOLITION NOTES

1. DEMOLISH EQUIPMENT AS SHOWN.
2. CLEAN EXISTING DRAIN PANS AND CONFIRM EXISTING LEAK DETECTORS ARE OPERATIONAL. REPLACE AS REQUIRED.
3. ALL DUCTWORK AND AIR OUTLETS SHALL REMAIN, EXCEPT WHERE NOTED. PROVIDE NEW FLEX CONNECTION TO UNIT ON SUPPLY AND RETURN OPENING DIMENSIONS. SEE DETAILS.
4. CONTRACTOR TO FIELD MODIFY CWS/R PIPING PRIOR TO THE HOSE KIT ASSEMBLY IN ORDER TO ACCOUNT FOR THE NEW WSHP DIMENSIONS. PROVIDE NEW HOSE KIT ASSEMBLIES FOR ALL NEW WSHP. ASSUME 3 FEET OF REVISED COPPER PIPING PER WSHP.



1 M102 MECHANICAL HVAC - THIRD FLOOR - DEMOLITION
1/8" = 1'-0"

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FUTURE SCOPE

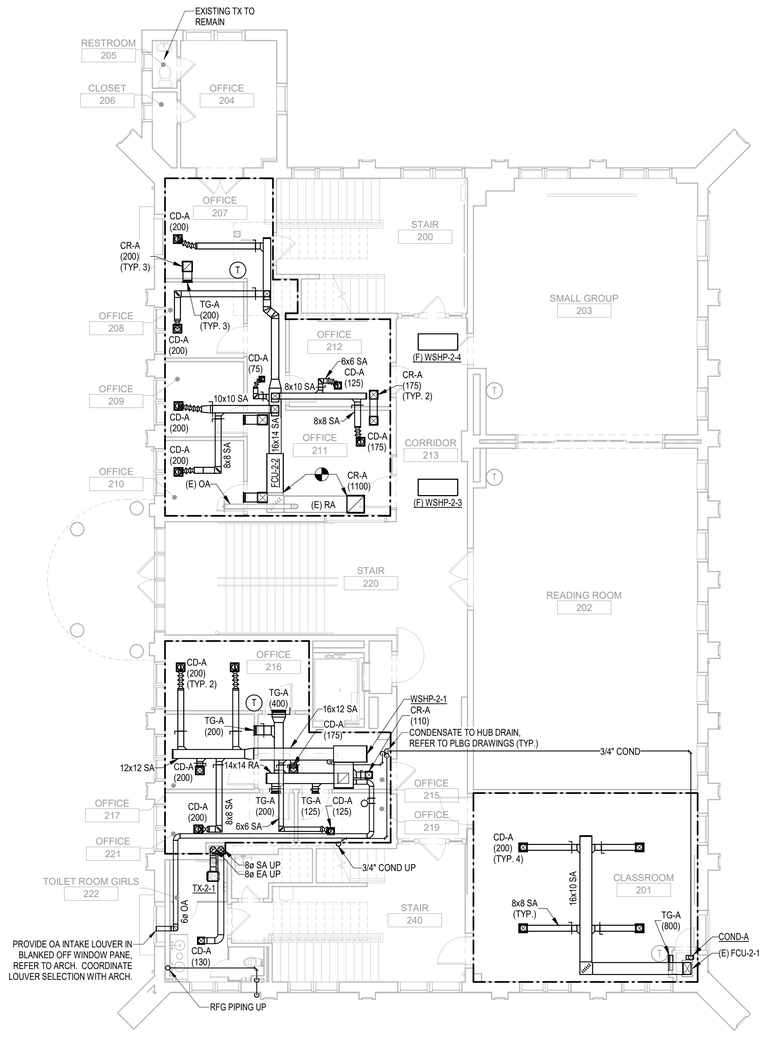
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GENERAL NOTES

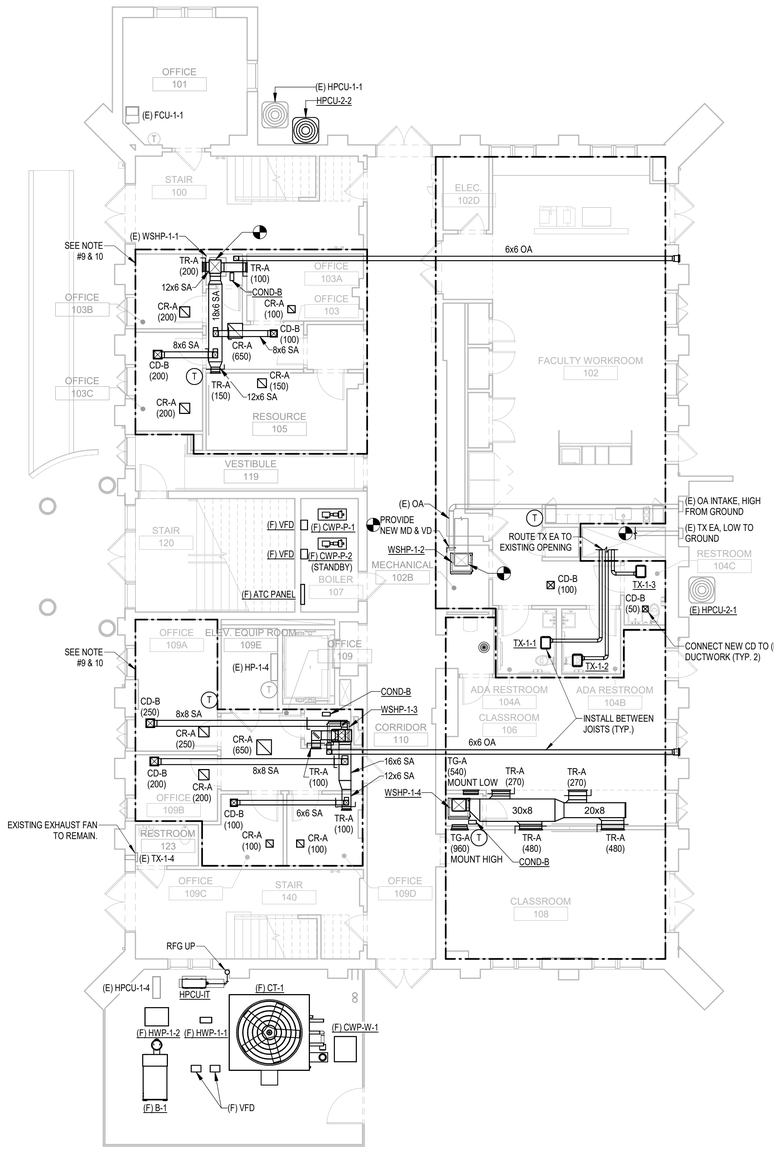
1. COORDINATE CONDENSATE TERMINATION WITH PLUMBING CONTRACTOR. ALL CONDENSATE SHALL PITCH 1/8" PER FOOT.
2. CONTRACTOR SHALL PROVIDE THERMOSTATS, COORDINATE FINAL LOCATION WITH ARCHITECT.
3. ALL EXHAUST OUTLETS PENETRATING EXTERIOR PERIMETER WALL MUST BE A MINIMUM 10 FEET FROM OUTSIDE AIR INTAKE AND 3 FEET FROM OPERABLE WINDOW.
4. CONTRACTOR SHALL CONFIRM REFRIGERANT LINE LENGTH WITH APPROVED SHOP DRAWING.
5. RIGID DUCTWORK MUST BE PROVIDED WHERE SHOWN FOR ALL MAINS AND BRANCHES SERVING MORE THAN ONE AIR OUTLET.
6. CONTRACTOR SHALL PROVIDE ACCESS DOOR PLAN FOR APPROVAL.
7. CONTRACTOR TO FIELD MODIFY CWS/R PIPING PRIOR TO THE HOSE KIT ASSEMBLY IN ORDER TO ACCOUNT FOR THE NEW WSHP DIMENSIONS. PROVIDE NEW HOSE KIT ASSEMBLIES FOR ALL NEW WSHP. ASSUME 3 FEET OF REVISED COPPER PIPING PER WSHP.
8. ALL DUCTWORK AND AIR OUTLETS SHALL REMAIN, EXCEPT WHERE NOTED. PROVIDE NEW FLEX CONNECTION TO UNIT ON SUPPLY AND RETURN OPENING DIMENSIONS. SEE DETAILS.
9. CEILING IN THIS AREA TO BE USED AS RETURN AIR PLENUM. MECHANICAL CONTRACTOR SHALL CUT OPENING IN DRYWALL BETWEEN DROP CEILING AND FIRE BARRIER TO ENSURE FREE TRAVEL OF AIR FLOW BACK TO MECHANICAL CLOSET. MINIMUM OPEN AREA TO BE .5 SQUARE FEET PER 100 CFM AIR FLOW. WHERE POSSIBLE CUT OPENINGS DIRECTLY INTO MECHANICAL CLOSET, ALL OTHER LOCATIONS OFFSET THE CUT OPENINGS FROM CEILING RETURN TO MINIMIZE NOISE TRANSFER.
10. REPLACE ALL EXISTING PVC CONDENSATE PIPING IN RETURN AIR PLENUMS WITH TYPE M COPPER. REUSE EXISTING CONDENSATE TERMINATION.

EQUIPMENT SCOPE MATRIX

FIRST FLOOR	
(E) WSHP-1-1	CONNECT NEW DUCTWORK TO EXISTING UNIT AT NEW LOCATION. EXTEND EXISTING CWS/R AND CONDENSATE PIPING TO NEW LOCATION. PROVIDE NEW CONDENSATE PUMP, REFER TO SCHEDULE. TURN OOUTSIDE AIR INTAKE DOWN IN MECHANICAL CLOSET. PROVIDE FIRE DAMPER AT FIRE BARRIER AND MOTOZIED DAMPER AND VOLUME DAMPER IN VERTICAL DUCT. COVER OPEN ENDED DUCT WITH WIRE MESH SCREEN.
WSHP-1-2	NEW UNIT SHALL BE PLACED ON EXISTING CONCRETE PAD. CONNECT NEW UNIT TO EXISTING SA DUCTWORK AND CWR/S PIPING. INTERLOCK EXISTING SMOKE DUCT DETECTOR TO NEW UNIT. TURN OUTSIDE AIR INTAKE DOWN IN MECHANICAL CLOSET. PROVIDE FIRE DAMPER AT FIRE BARRIER AND MOTOZIED DAMPER AND VOLUME DAMPER IN VERTICAL DUCT. COVER OPEN ENDED DUCT WITH WIRE MESH SCREEN. PROVIDE EQUIVALENT SIZE INSULATED COPPER PIPING FOR 3RD FLOOR CONDENSATE IN MECH ROOM 102B TO COMPLY WITH CODE, REFER TO SPECIFICATIONS.
WSHP-1-4	EXTEND EXISTING CWS/R PIPING TO LOCATION OF NEW UNIT. ALLOW FOR 15 FEET OF NEW 3/4" CONDENSATE AND NEW 1" CWS/R PIPING. PROVIDE NEW CONDENSATE PUMP, REFER TO SCHEDULE.
SECOND FLOOR	
(E) FCU-2-1	EXTEND EXISTING REFRIGERANT PIPING TO EXISTING FCU AT NEW LOCATION. ALL NEW DUCTWORK SERVING CLASSROOM 201 TO BE RIGID. RECHARGE EXISTING REFRIGERANT LINES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE NEW CONDENSATE PUMP, REFER TO SCHEDULE.
FCU-2-2	NEW UNIT SHALL BE PLACED ON EXISTING PLATFORM. PROVIDE NEW TRAP AND CONNECT TO EXISTING CONDENSATE PIPING. ALLOW FOR FIVE NEW FEET OF 3/4" CONDENSATE LINE. FLUSH AND REUSE EXISTING REFRIGERANT LINES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, FOR NEW REFRIGERANT TYPE.
WSHP-2-1	NEW UNIT SHALL BE CEILING HUNG INSTEAD OF FLOOR MOUNTED. PROVIDE VIBRATION ISOLATORS AS SPECIFIED. EXTEND EXISTING CWS/R PIPING TO NEW UNIT. PROVIDE NEW CONDENSATE PIPING AND NEW OA DUCTWORK AND LOUVER.



2 MECHANICAL HVAC - SECOND FLOOR
M201 1/8" = 1'-0"



1 MECHANICAL HVAC - FIRST FLOOR
M201 1/8" = 1'-0"

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FUTURE SCOPE

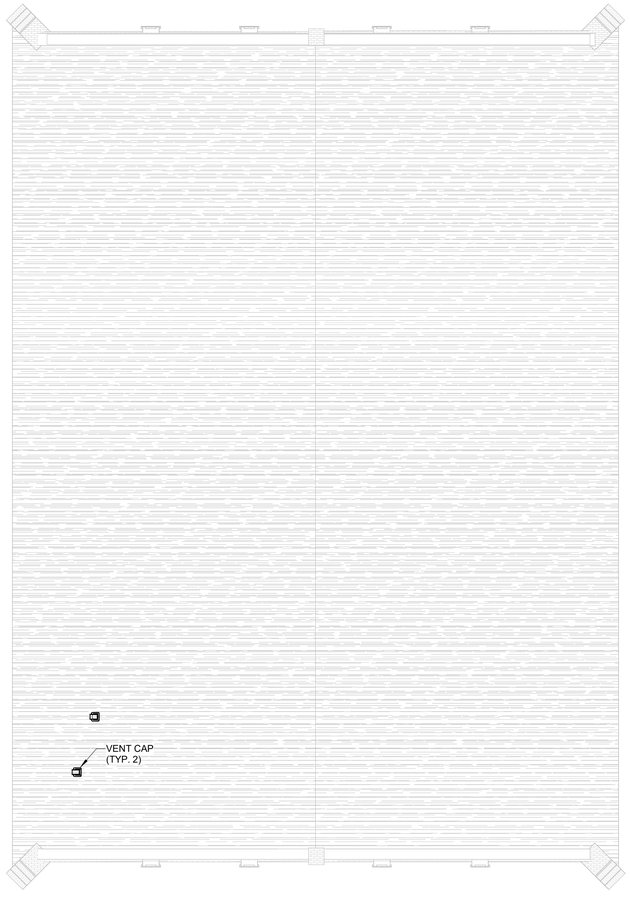
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GENERAL NOTES

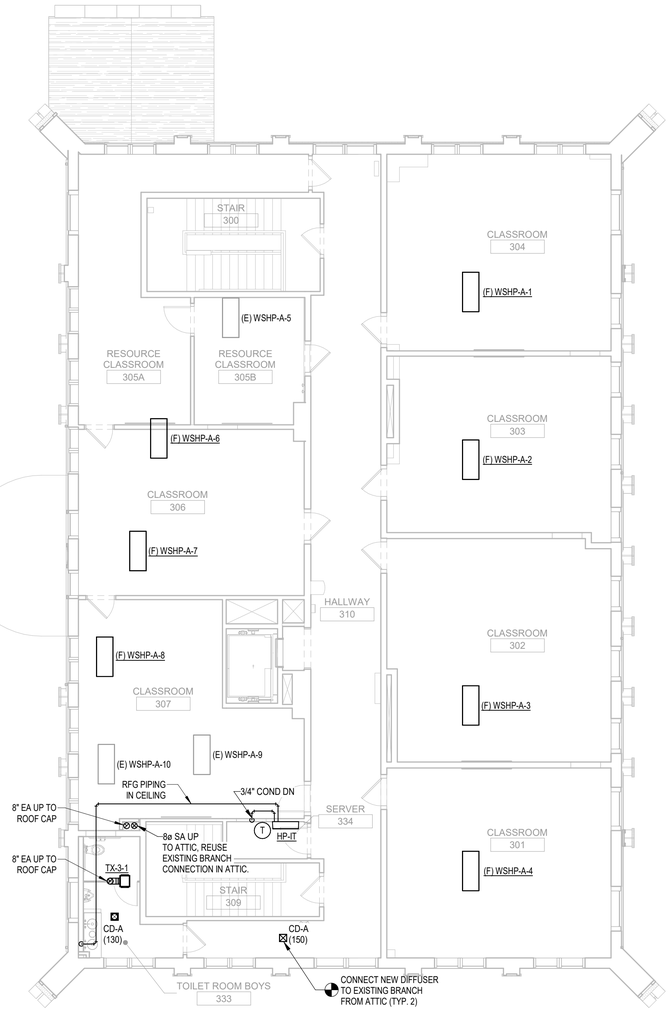
1. HVAC CONTRACTOR SHALL ENSURE THAT ALL CODE CLEARANCE AND DISTANCES ARE MET BETWEEN EXHAUST AND OAI, OPENINGS INTO BUILDING, AND LOT LINES AS REQUIRED BY CODE.
2. ALL EXHAUST OUTLETS PENETRATING ROOF MUST BE 3 FEET FROM PROPERTY LINE.
3. CONTRACTOR SHALL CONFIRM REFRIGERANT LINE LENGTH WITH APPROVED SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE ADDITIONAL REFRIGERANT CHARGE AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.

FUTURE SCOPE GENERAL NOTES

1. CONTRACTOR TO FIELD MODIFY CWS/R PIPING PRIOR TO THE HOSE KIT ASSEMBLY IN ORDER TO ACCOUNT FOR THE NEW WSHP DIMENSIONS. PROVIDE NEW HOSE KIT ASSEMBLIES FOR ALL NEW WSHP. ASSUME 3 FEET OF REVISED COPPER PIPING PER WSHP.
2. NEW THERMOSTATS FOR REPLACED EQUIPMENT SHALL BE LOCATED IN EXISTING THERMOSTAT LOCATION.
3. ALL DUCTWORK AND AIR OUTLETS SHALL REMAIN, EXCEPT WHERE NOTED. PROVIDE NEW FLEX CONNECTION TO UNIT ON SUPPLY AND RETURN OPENING DIMENSIONS. SEE DETAILS.



2 MECHANICAL HVAC - ROOF
M202 1/8" = 1'-0"



1 MECHANICAL HVAC - THIRD FLOOR
M202 1/8" = 1'-0"

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WSHP SCHEDULE

MANUFACTURED BY - CLIMATEMASTER

NOTES:
1. SEE SPECS FOR REQUIRED FEATURES AND OPTIONS SELECTED.
2. UNIT OA IS DUCTED DIRECTLY FROM OUTDOORS.
3. PROVIDE HOT GAS REHEAT OPTION.
4. PROVIDE REFRIGERANT DETECTION SYSTEM.
5. PROVIDE ADD-ALT. FOR 2-WAY VALVES FOR USE WITH NEW PUMPS WITH VFD.

UNIT NO.	LOCATION	CONFIG.	NOM. TON	SUPPLY FAN				DX COIL					COMPRESSOR			CONDENSER				ELECTRICAL					FILTER		VIBRATION ISOLATION		PERFORMANCE		DIMENSIONS (WxHxD) [IN]	WEIGHT [LBS]	PLENUM SIZE (WxHxD) [IN]	MODEL NO.	REMARKS
				CFM	DESIGN OA. CFM	TYPE	ESP	MOTOR HP	COOLING			HEATING		TYPE	NO. STEPS	REFR.	GPM	CLG EWT [F]	CLG LWT [F]	MAX P.D. [IN]	DESIGN PRESSURE [PSIG]	VOLT/PH/HZ	FLA	MCA	MOP	STARTER	TYPE	DEPTH [IN]	TYPE	DEFL	EER	COP					
									TOTAL [MBH]	SENS. [MBH]	EAT/LAT [F]	TOTAL [MBH]	EAT/LAT [F]																						
WSHP-1-2	1ST FLOOR	VERTICAL	5	2000	EXISTING	CV ECM	0.75	1	53.1	42.7	75/54.9	64.4	70/100.4	SCROLL	1	R-454B	12.5	90	100.2	6.3	300	208/3/60	23.5	27.5	40	INTEGRAL	MERV 8	1	SPRING	1"	14.7	4.7	26X51X29	330	EXISTING	SR060	1-4
WSHP-1-3	1ST FLOOR	VERTICAL	2	750	65	CV ECM	0.6	1/3	21.9	17.7	75/54.6	28.1	70/102.4	SCROLL	1	R-454B	5	90	100.6	1.8	300	208/1/60	15.6	18.5	25	INTEGRAL	MERV 8	1	SPRING	1"	15.4	4.8	23X48X18	216	-	SR024	1-4
WSHP-1-4	1ST FLOOR	VERTICAL	4	1500	NAT. VENT.	CV ECM	0.6	3/4	42.8	31.8	75/54.1	52.9	70/104.8	SCROLL	1	R-454B	10	90	100.2	4.9	300	208/3/60	18.7	21.9	30	INTEGRAL	MERV 8	1	SPRING	1"	15.2	4.8	26X68X21	315	-	SR048	1-4
WSHP-2-1	2ND FLOOR	HORIZONTAL	3	1100	65	CV ECM	0.6	1/2	30.4	26.1	75/54	40.2	70/102.3	SCROLL	1	R-454B	7.5	90	99.8	2.3	300	208/3/60	14.9	17.1	25	INTEGRAL	MERV 8	1	SPRING	1"	15.3	4.8	22X26X45	245	26X20X36	SR036	1-4

HEAT PUMP SCHEDULE - INDOOR

MANUFACTURED BY - CARRIER

NOTES:
1. PROVIDE WIRED REMOTE 7-DAY PROGRAMMABLE THERMOSTAT.
2. UNITS SHALL BE PROVIDED WITH OMEGA PACK MINI CONDENSATE PUMP WITH CASE FOR UNDER UNIT INSTALLATION. NO EXCEPTION.

UNIT NO.	SERVICE	CORRESPONDING OUTDOOR UNIT	TYPE	CFM	MIN OA. CFM	DESIGN OA. CFM	ESP	FAN			COOLING			HEATING		ELECTRICAL				FILTER TYPE	VIBRATION ISOLATION		DIMENSIONS [WxHxD] [IN]	WEIGHT [LBS]	PLENUM SIZE (WxHxD) [IN]	MODEL NO.	REMARKS
								HP	TYPE	RPM	TC [MBH]	SC [MBH]	EAT/LAT [DEG]	CAPACITY [MBH]	EAT/LAT [F]	VOLT/PH/HZ	MCA	MOP	STARTER		TYPE	DEFL					
HP-IT	SERVER 334	HPCU-IT	DUCTLESS	400	-	-	-	.03	ECM	1100	12	-	-	-	-	POWERED BY CU	-	-	-	WASHABLE	-	-	31X12X9	23	-	45MAHAQ12XA1	
FCU-2-2	2ND FLOOR NW OFFICES	HPCU-2-2	HORIZONTAL	1500	215	215	0.6	3/4	ECM	1725	44.4	34.9	77/64	38.9	67.6/91.6	208/1/60	7.1	15	INTEGRAL	MERV 8	SPRING	1"	22X21X68	168	EXISTING	FG5A	

HEAT PUMP SCHEDULE - OUTDOOR

MANUFACTURED BY - CARRIER

NOTES:
1. PROVIDE EXTRA REFRIGERANT CHARGE, AS REQUIRED FOR REFRIGERANT LINE RUN. CONTRACTOR TO VERIFY PIPING RUN AND DIMENSIONS.
2. CONTRACTOR SHALL PROVIDE ALL COMPONENTS FOR A FULLY OPERATIONAL SYSTEM INCLUDING LINE SETS, ETC.

UNIT NO.	LOCATION	SERVICE	TYPE	REF.	NOMINAL TONNAGE	COMPRESSOR/CONDENSER					ELECTRICAL					VIBRATION ISOLATION		AHRI PERFORMANCE		DIMENSIONS (WxHxD) [IN]	WEIGHT [LBS]	MODEL NO.	REMARKS
						CLG [MBH]	HTG [MBH] (30 F)	NO. OF COMPRESSORS	COMPRESSOR TYPE	NO. OF FANS	VOLT/PH/HZ	FLA	MCA	MOP	STARTER TYPE	TYPE	DEFL	SEER2	HSPF2				
HPCU-IT	MECH YARD	HP-IT	SINGLE ZONE	R-454B	1	12	-	1	ROTARY	1	115/1/60	0.6	18	20	INTEGRAL	NEOPRENE PAD	1"	23.5	9.5	30x22x12	65	37MARAQ12AA1	
HPCU-2-2	NORTH EXTERIOR	FCU-2-2	SINGLE ZONE	C	4	44.4	38.9	1	2-STAGE SCROLL	1	208/1/60	2.6	31.4	50	INTEGRAL	NEOPRENE PAD	1"	17	8.1	35x35x46	338	27PTA	

CONDENSATE PUMP SCHEDULE

MANUFACTURED BY - LITTLE GIANT

NOTES:
1. PUMP TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE BUILT-IN CHECK VALVE, OVERFLOW DETECTION SWITCH.

UNIT NO.	LOCATION	QTY	SERVICE	TYPE	WATER [GPH]	HEAD [FT]	VOLT/PH/HZ	STARTER TYPE	CONDENSATE TANK		DIMENSIONS (WxHxD)	WEIGHT	MODEL NO.	REMARKS
									MATERIAL	CAPACITY [GAL]				
COND-A	SEE PLANS	1	HP UNITS	TANK	48	10	115/1/60	INTEGRAL	ABS	1/2	11x7x5	6.3	VCMA-20ULST	1,2
COND-B	SEE PLANS	3	HP UNITS	TANK	25	10	115/1/60	INTEGRAL	ABS	1/2	11x7x5	6.3	VCMA-15ULST	1,2

EXHAUST FAN SCHEDULE

MANUFACTURED BY - GREENHECK

NOTES:
1. ADJUSTABLE MOUNTING BRACKETS.
2. PROVIDE ALUMINUM GRILLE WITH WHITE ENAMEL FINISH. COORDINATE WITH ARCHITECT.
3. ROUND OUTLET DUCT COLLAR SHALL COME WITH INTEGRAL BACKDRAFT DAMPER.
4. FAN SHALL BE CONTROLLED BY OCCUPANCY SENSOR, REFER TO ELECTRICAL.

UNIT NO.	LOCATION	SERVICE	FAN									ELECTRICAL				DIMENSIONS (WxHxD) [IN]	WEIGHT [LBS]	MODEL NO.	REMARKS
			CFM	TYPE	ESP	RPM	WATTS	CFM/WATT	BHP/HP	DRIVE	WHEEL	AMPS	VOLT/PH/HZ	MCA	MOP				
TX-1-1	1ST FLOOR	RESTROOM	70	CABINET	0.24	700	21	3.33	.01	DIRECT	FC	0.19	115/1/60	0.2	15	14X7X12	10	SP-B90	1-4
TX-1-2	1ST FLOOR	RESTROOM	70	CABINET	0.24	700	21	3.33	.01	DIRECT	FC	0.19	115/1/60	0.2	15	14X7X12	10	SP-B90	1-4
TX-1-3	1ST FLOOR	RESTROOM	70	CABINET	0.24	700	21	3.33	.01	DIRECT	FC	0.19	115/1/60	0.2	15	14X7X12	10	SP-B90	1-4
TX-2-1	2ND FLOOR	RESTROOM	140	CABINET	0.2	844	15	9.33	.02	DIRECT	FC	1.5	115/1/60	1.9	15	14X11X12	30	SP-A390-VG	1-4
TX-3-1	3RD FLOOR	RESTROOM	140	CABINET	0.2	844	15	9.33	.02	DIRECT	FC	1.5	115/1/60	1.9	15	14X11X12	30	SP-A390-VG	1-4

CEILING DIFFUSER SCHEDULE (CD)

GENERAL NOTES:
1. SEE PLANS FOR CFM.
2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED.
3. COLOR TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED. AIR OUTLETS IN LOCKER ROOMS, SHOWER ROOMS, AND TOILET ROOMS TO BE ALUMINUM.
5. ALL AIR OUTLETS SHALL BE FOUR-WAY, EXCEPT WHERE NOTED ON PLAN.

REMARKS:
-PROVIDE CD-B WITH RUSSKIN CFD(R)3 CEILING RADIATION DAMPERS.

TYPE	CFM RANGE	ESP RANGE	NOMINAL SIZE	MFR/MODEL
CD-A	50-75	.01-.04	6x6	TITUS/250
CD-A	76-150	.01-.04	8x8	TITUS/250
CD-A	151-250	.02-.04	10x10	TITUS/250
CD-B	50-75	.01-.04	6x6	TITUS/250
CD-B	76-150	.01-.04	8x8	TITUS/250
CD-B	151-250	.02-.04	10x10	TITUS/250

RETURN/EXHAUST REGISTER & GRILLE SCHEDULE (CR) & (CG)

GENERAL NOTES:
1. SEE PLANS FOR CFM.
2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED.
3. COLOR TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED. AIR INLETS IN LOCKER ROOMS, SHOWER ROOMS, AND TOILET ROOMS TO BE ALUMINUM.
5. CONTRACTOR TO CONFIRM AIR INLET BORDER TYPE WITH ARCHITECT PRIOR TO ORDERING.
6. CONTRACTOR SHALL PAINT THE INSIDE OF ALL DUCTWORK THAT IS VISIBLE THROUGH THE AIR INLET.

REMARKS:
-35 DEGREE DEFLECTION, 3/4" BLADE SPACING.

TYPE	CFM RANGE	ESP RANGE	NOMINAL SIZE	MFR/MODEL
CR-A	50-110	.006-.012	8x8	TITUS/350
CR-A	111-175	.006-.012	10x10	TITUS/350
CR-A	176-250	.006-.012	12x12	TITUS/350
CR-A	400-650	.006-.012	18x18	TITUS/350
CR-A	651-1100	.006-.022	22x22	TITUS/350

SUPPLY REGISTER SCHEDULE (TR)

GENERAL NOTES:
1. SEE PLANS FOR CFM.
2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED.
3. COLOR TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED. AIR OUTLETS IN LOCKER ROOMS, SHOWER ROOMS, AND TOILET ROOMS TO BE ALUMINUM.
5. CONTRACTOR TO CONFIRM GRILLES BORDER TYPE WITH ARCHITECT PRIOR TO ORDERING.
6. CONTRACTOR SHALL PAINT THE INSIDE OF ALL DUCTWORK THAT IS VISIBLE THROUGH THE AIR OUTLET.

REMARKS:...

TYPE	CFM RANGE	ESP RANGE	NORMAL SIZE	MFR/MODEL
TR-A	50-250	.01-.04	12x6	TITUS/301FL
TR-A	251-300	.01-.02	24x6	TITUS/301FL
TR-A	301-500	.01-.03	30x6	TITUS/301FL

TRANSFER GRILLE SCHEDULE (TG)

GENERAL NOTES:
1. SEE PLANS FOR CFM.
2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED.
3. COLOR TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED. AIR INLETS IN LOCKER ROOMS, SHOWER ROOMS, AND TOILET ROOMS TO BE ALUMINUM.
5. CONTRACTOR TO CONFIRM AIR INLET BORDER TYPE WITH ARCHITECT PRIOR TO ORDERING.
6. CONTRACTOR SHALL PAINT THE INSIDE OF ALL DUCTWORK THAT IS VISIBLE THROUGH THE AIR INLET.

REMARKS:
-SINGLE DEFLECTION, 3/4" SPACING, SURFACE MOUNT, LONG BLADES.

TYPE	CFM RANGE	ESP RANGE	NOMINAL SIZE	MFR/MODEL
TG-A	100-150	.001-.002	8x8	TITUS/350
TG-A	151-300	.006-.022	12x12	TITUS/350
TG-A	301-450	.006-.014	18x12	TITUS/350
TG-A	500-600	.006-.022	20x18	TITUS/350
TG-A	750-850	.006-.022	20x20	TITUS/350
TG-A	900-1000	.006-.022	22x22	TITUS/350

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M401

WSHP SCHEDULE - FOR FUTURE REPLACEMENT - NOT IN SCOPE - FOR INFORMATION ONLY

MANUFACTURED BY - CLIMATEMASTER

NOTES:
1. SEE SPECS FOR REQUIRED FEATURES AND OPTIONS SELECTED.
2. UNIT OA IS DUCTED DIRECTLY FROM OUTDOORS.
3. PROVIDE HOT GAS REHEAT OPTION.
4. PROVIDE REFRIGERANT DETECTION SYSTEM.
5. PROVIDE ADD-ALT. FOR 2-WAY VALVES FOR USE WITH NEW PUMPS WITH VFD.

UNIT NO.	LOCATION	CONFIG.	NOM. TON	SUPPLY FAN					DX COIL				COMPRESSOR			CONDENSER					ELECTRICAL					FILTER		VIBRATION ISOLATION		PERFORMANCE		DIMENSIONS (WxHxD) [IN]	WEIGHT [LBS]	PLENUM SIZE (WxHxD) [IN]	MODEL NO.	REMARKS
				CFM	DESIGN OA. CFM	TYPE	ESP	MOTOR HP	COOLING			HEATING																								
									TOTAL [MBH]	SENS. [MBH]	EAT/LAT [F]	TOTAL [MBH]	EAT/LAT [F]	TYPE	NO. STEPS	REFR.	GPM	CLG EWT [F]	CLG LWT [F]	MAX P.D. [IN W.G.]	DESIGN PRESSURE [PSIG]	VOLT/PH/HZ	FLA	MCA	MOP	STARTER	TYPE	DEPTH [IN]	TYPE	DEFL	EER	COP					
(F) WSHP-2-3	2ND FLOOR	HORIZONTAL	4	1400	EXISTING	CV ECM	0.5	3/4	42.8	31.8	75/51.4	52.9	70/104.8	SCROLL	1	R-454B	10	90	100.2	4.9	300	208/3/60	18.7	21.9	30	INTEGRAL	MERV 8	1	SPR	1"	14.3	4.7	26X21X68	299	EXISTING	SR048	1-4
(F) WSHP-2-4	2ND FLOOR	HORIZONTAL	4	1400	EXISTING	CV ECM	0.5	3/4	42.8	31.8	75/51.4	52.9	70/104.8	SCROLL	1	R-454B	10	90	100.2	4.9	300	208/3/60	18.7	21.9	30	INTEGRAL	MERV 8	1	SPR	1"	14.3	4.7	26X21X68	299	EXISTING	SR048	1-4
(F) WSHP-A-1	ATTIC	HORIZONTAL	2.5	890	EXISTING	CV ECM	0.5	1/2	24.9	20.3	75/52.4	31.4	70/102.5	SCROLL	1	R-454B	6.25	90	99.6	3	300	208/3/60	13.8	16.2	30	INTEGRAL	MERV 8	1	NEO PAD	-	13.7	4.6	23X18X48	208	EXISTING	SR030	1-4
(F) WSHP-A-2	ATTIC	HORIZONTAL	2	800	EXISTING	CV ECM	0.5	1/2	21.9	17.7	75/52.6	28.1	70/102.4	SCROLL	1	R-454B	5	90	100.6	1.8	300	208/1/60	15.6	18.5	25	INTEGRAL	MERV 8	1	NEO PAD	-	14.7	5.0	23X18X48	208	EXISTING	SR024	1-4
(F) WSHP-A-3	ATTIC	HORIZONTAL	2.5	890	EXISTING	CV ECM	0.5	1/2	24.9	20.3	75/52.4	31.4	70/102.5	SCROLL	1	R-454B	6.25	90	99.6	3	300	208/3/60	13.8	16.2	30	INTEGRAL	MERV 8	1	NEO PAD	-	13.7	4.6	23X18X48	208	EXISTING	SR030	1-4
(F) WSHP-A-4	ATTIC	HORIZONTAL	2.5	890	EXISTING	CV ECM	0.5	1/2	24.9	20.3	75/52.4	31.4	70/102.5	SCROLL	1	R-454B	6.25	90	99.6	3	300	208/3/60	13.8	16.2	30	INTEGRAL	MERV 8	1	NEO PAD	-	13.7	4.6	23X18X48	208	EXISTING	SR030	1-4
(F) WSHP-A-6	ATTIC	HORIZONTAL	2	800	EXISTING	CV ECM	0.5	1/2	21.9	17.7	75/52.6	28.1	70/102.4	SCROLL	1	R-454B	5	90	100.6	1.8	300	208/1/60	15.6	18.5	25	INTEGRAL	MERV 8	1	NEO PAD	-	14.7	5.0	23X18X48	208	EXISTING	SR024	1-4
(F) WSHP-A-7	ATTIC	HORIZONTAL	2	800	EXISTING	CV ECM	0.5	1/2	21.9	17.7	75/52.6	28.1	70/102.4	SCROLL	1	R-454B	5	90	100.6	1.8	300	208/1/60	15.6	18.5	25	INTEGRAL	MERV 8	1	NEO PAD	-	14.7	5.0	23X18X48	208	EXISTING	SR024	1-4
(F) WSHP-A-8	ATTIC	HORIZONTAL	2	800	EXISTING	CV ECM	0.5	1/2	21.9	17.7	75/52.6	28.1	70/102.4	SCROLL	1	R-454B	5	90	100.6	1.8	300	208/1/60	15.6	18.5	25	INTEGRAL	MERV 8	1	NEO PAD	-	14.7	5.0	23X18X48	208	EXISTING	SR024	1-4

BOILER SCHEDULE - FOR FUTURE REPLACEMENT - NOT IN SCOPE - FOR INFORMATION ONLY

MANUFACTURED BY - RBI

REMARKS:
1. PROVIDE CATEGORY IV VENT.
2. PROVIDE VENT AND WEATHER COVER FOR OUTDOOR INSTALLATION.
3. PROVIDE CONTROLLER WITH BACNET CAPABILITY

UNIT NO.	LOCATION	SERVICE	TYPE	CAPACITY				HOT WATER			TURNDOWN	GAS BURNER			RELIEF VALVE NO. & SIZE	ELECTRICAL			VIBRATION ISOLATION		DIMENSIONS (WxHxD) [IN]	WEIGHT [LBS]	MODEL NO.	REMARKS
				MAX IN [MBH]	MAX OUT [MBH]	HP	BOILER EFFICENCY	GPM	PRESSURE DROP [FT]	DESIGN PRESSURE		TYPE	MIN PRESSURE	PILOT		VOLT/PH/HZ	MCA	FLA	TYPE	DEFL				
(F) B-1	MECH YARD	HTG HW	CONDENSING	2500	2430	72.5	97.5	123	6.1	5	210	NATURAL GAS	4"	ELECTRONIC	1 1/2" x 1 1/2"	230/3/60		15.1	NEO PAD	-	44X104X87	2311	TORUS 2500	

CLOSED CIRCUIT COOLING TOWER SCHEDULE - FOR FUTURE REPLACEMENT - NOT IN SCOPE - FOR INFORMATION ONLY

MANUFACTURED BY - EVAPCO

NOTES:
1. PROVIDE 1 ELECTRIC FEED PER CELL.
2. PROVIDE STAINLESS STEEL CONTRSUCTION FOR PANEL AND FAN SHAFT.
3. PROVIDE EISA CLOSE-COUPLE CENTRIFUGAL PUMP WITH MECHANICAL SEAL AT 208/3/60.
4. PROVIDE TRANSFORMER AND DISCONNECT FOR HEATER PACKAGE.
5. PROVIDE FACTORY MOUNTED PULSE PURE, SAGE 2 CONTROL PANEL, CROSS COOL COIL, VIBRATION SWITCH AND SOLID BOTTOM PANELS.
6. PROVIDE BACNET CAPABILITY.

UNIT NO.	LOCATION	SERVICE	TYPE	NO. OF CELLS	PERFORMANCE					FAN					ELECTRICAL						STARTER		ELECTRIC HEATER				VIBRATION ISOLATION		CTI RATED CONDITIONS (GPM/HP)	UNIT PERFORMANCE (GPM/HP)	DIMENSIONS (WXHXD) [IN]	WEIGHT [LBS]	MODEL NO.	REMARKS
					EWT/LWT [F]	GPM	TOTAL HEAT REJECTED [MBH]	ENTERING WB [F]	COIL P.D. [PSIG]	TYPE	CFM	NO/MOTOR HP	DRIVE	ESP	VOLT/PH/HZ	FLA	SPRAY PUMP HP	TOTAL FLA	MCA	MOP	TYPE	SWITCH	TYPE	STARTER	kW	SWITCHES	TYPE	DEFL						
(F) CT-1	MECH YARD	PORTEOUS & WOODEN BLDG	CLOSED CIRCUIT	1	100/90	425	2125	80	4	Axial	40,100	1 / 7.5	VFD		208/3/60		5										1"	CTI Certified	100.7% @ 142.64 tons	102X223X108	16,440	ESW4 9-34H9-LP	

MECHANICAL PUMP SCHEDULE - FOR FUTURE REPLACEMENT - NOT IN SCOPE - FOR INFORMATION ONLY

MANUFACTURED BY - BELL & GOSSETT

NOTES:
1. PROVIDE BACNET CAPABILITY.
2. MOTORS SHALL HAVE GROUNDING RINGS ON SHAFTS AND BE INVERTER DUTY RATED FOR VFD'S.
3. SHALL BE PROVIDED AS A HEADER PUMP FOR BOILER RECIRCULATION.
4. PRIOR TO PURCHASE AND INSTALL CONTRACTOR MUST FIELD VERIFY SYSTEM GPM AND HEAD PRESSURE FOR IN KIND PUMP REPLACEMENT.
5. CONTRACTOR TO PROVIDE VFD FOR PUMPS AS LISTED ONLY IF OWNER PROVIDES NEW TWO-WAY VALVES FOR ALL NEW AND EXISTING WSHP EQUIPMENT.
6. PROVIDE IN KIND REPLACEMENT FOR EXPANSION TANKS FOR ALL PUMP SYSTEMS. ALL PUMPS TO BE PROVIDED WITH EXPANSION TANKS.

UNIT NO.	S - LOCATION	SERVICE	TYPE	DESIGN PRESSURE [PSIG]	FLUID					ELECTRICAL			STARTER		VIBRATION ISOLATION		DIMENSIONS (WxHxD) [IN]	WEIGHT [LBS]	MODEL NO.	REMARKS
					FLUID	GPM	TEMPERATURE [F]	TOTAL DYN HEAD	NPSH	BHP/MOTOR HP	RPM	VOLT/PH/HZ	TYPE	SWITCH	TYPE	DEFL				
(F) CWP-P-1	UTILITIES 107	CW	BASE-MOUNTED END SUCTION	125	WATER	VIF	90/102	75		8.68/10	1800	208/3/60	VFD	HOAP	SPRING	1"	15X18X35	340	E-1510-2BD	1-6
(F) CWP-P-2 (STANDBY)	UTILITIES 107	CW	BASE-MOUNTED END SUCTION	125	WATER	VIF	90/102	75		8.68/10	1800	208/3/60	VFD	HOAP	SPRING	1"	15X18X35	340	E-1510-2BD	1-6
(F) CWP-W-1	MECH YARD	CW	SPLIT COUPLED INLINE	125	WATER	VIF	90/102	75		1.54/3	1800	208/3/60	VFD	HOAP	SPRING	1"	29.5X34X34	700	E-82SC-3X3X11	1-6
(F) HWP-1-1	MECH YARD	BOILER CIRC.	INLINE	125	WATER	31.3	160/130	10	4.08	0.127/0.25	1800	208/1/60	CMUF	HOAP	SPRING	1"	7.5X15.5X11	46	E-90-1.25AAB	1-6
(F) HWP-1-2	MECH YARD	HW	SPLIT COUPLED INLINE	125	WATER	230	160/130	22	7.8	1.76/2	1800	208/3/60	VFD	HOAP	SPRING	1"	24.5X31.5X27	450	E-82SC-3X3X7	1-6

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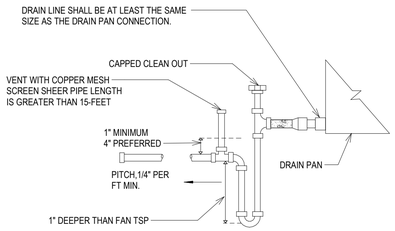
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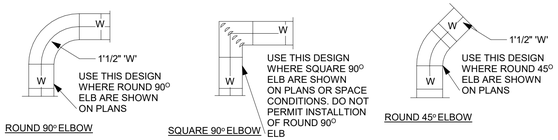
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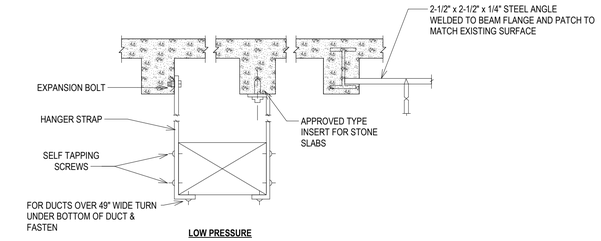
NOTES:
1. MANUALLY PRIME TRAP BEFORE START-UP.
2. SUPPORT DRAIN LINES TO PREVENT LAG.
3. ALLOW SUFFICIENT SPACE BELOW PAN FOR TRAP AND PITCH TO DRAIN.

1 M501 CONDENSATE COIL DRAIN
NOT TO SCALE



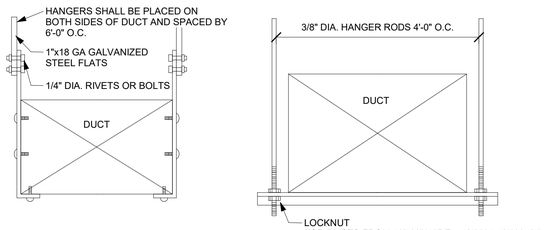
INSTALLATION NOTES:-
1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLINE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSIONS SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HIGHT.
4. DUCT RESERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN VANES SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULANCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTUCTION IN AN APPROVED MANNER.
7. DIVERCING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL PIPE DAMPER AS REQUIRED BY N.F.P.A. PAMPHLET NO.90A OR THE LOCAL CODES.
9. ACCESS PANELS SHOULD BE PLACED BEFORE ANDOR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE CONNECTIONS SHOULD BE USED ON BOTH THE LET AND OUTLET TO ALL FANS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

2 M501 DUCT CONSTRUCTION TRANSITION PIECES
NOT TO SCALE



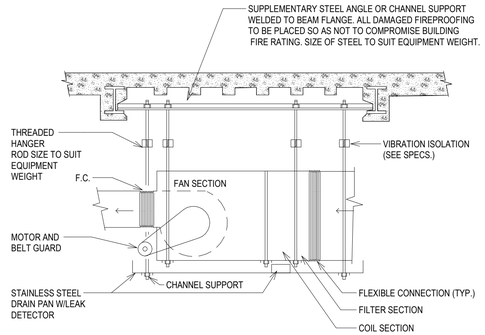
NOTE:
1. DISTANCE BETWEEN DUCTS
2. HANGERS SHALL BE IN ACCORDANCE WITH CODE

3 M501 DUCT HANGING METHOD
NOT TO SCALE

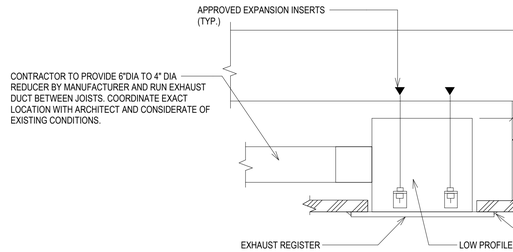


NOTE:
1. PROVIDE WHEN NO SEISMIC REQUIREMENT. SEE SPECIFICATION.

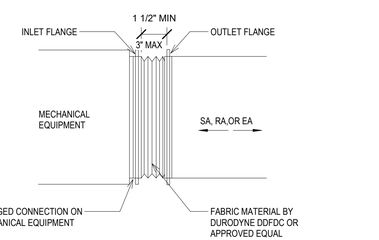
4 M501 DUCT METHOD OF SUPPORTING DUCT
NOT TO SCALE



5 M501 HANGING HVAC EQUIPMENT
NOT TO SCALE

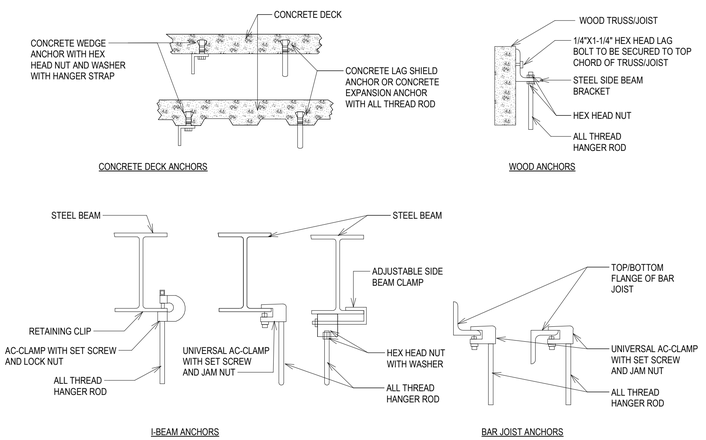


6 M501 CABINET TOILET EXHAUST FAN
NOT TO SCALE

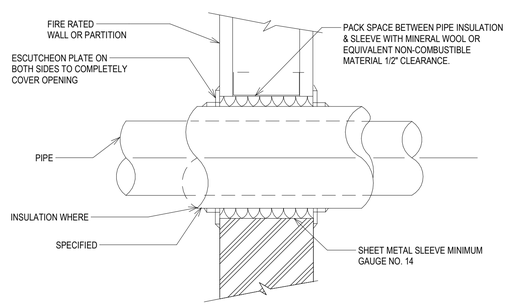


GENERAL NOTES:
1. FLEX CONNECTION SHALL BE FURNISHED AND INSTALLED ON ALL INLETS AND OUTLETS OF AIR HANDLING UNITS AND FANS.
2. FLEX CONNECTION SHALL BE SAME SIZE AS INLET/OUTLET OF EQUIPMENT.
3. FLEX CONNECTION SHALL BE PER NFPA-90A WITH 25 OR LESS FLAME SPREAD AND 50 OR LESS SMOKE DEVELOPMENT RATINGS.

7 M501 FLEXIBLE DUCT CONNECTOR
NOT TO SCALE



8 M501 DUCT/PIPE HANGER ANCHORS
NOT TO SCALE



NOTES:
1. THE INSTALLATION OF FIRE STOPPING MATERIALS SHALL BE SUBJECT TO CONTROLLED INSPECTION IN ACCORDANCE WITH C26-106.3.

9 M501 PIPE SLEEVE THRU INTERIOR WALL
NOT TO SCALE

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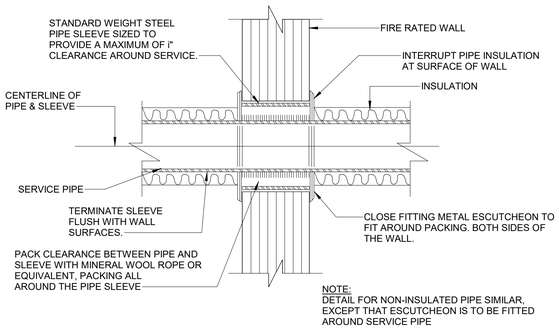
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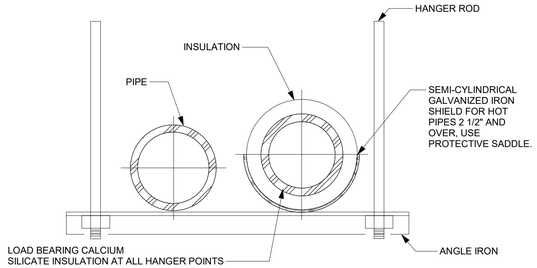
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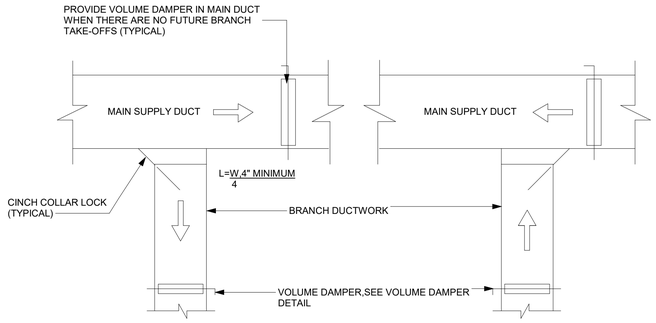
M501



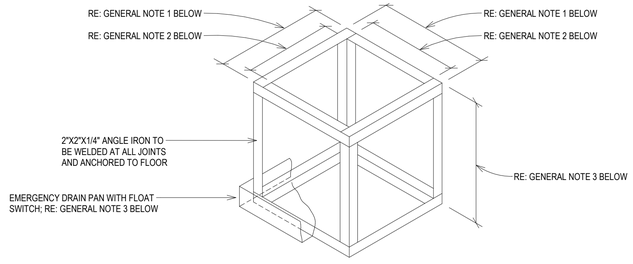
1 PIPE THROUGH REQUIRED RATED WALL
M502 NOT TO SCALE



2 TRAPEZE HANGER
M502 NOT TO SCALE



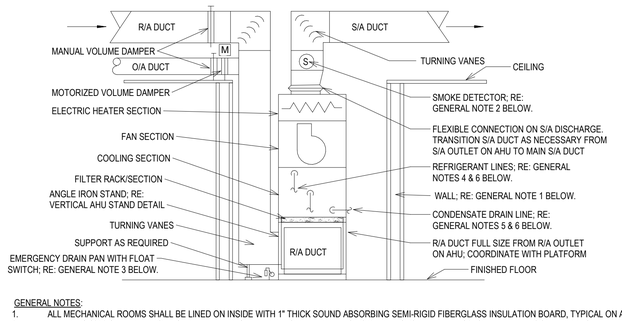
3 TYPICAL REC SUPPLY AND RETURN DUCTWORK
M502 NOT TO SCALE



ISOMETRIC VIEW OF PLATFORM

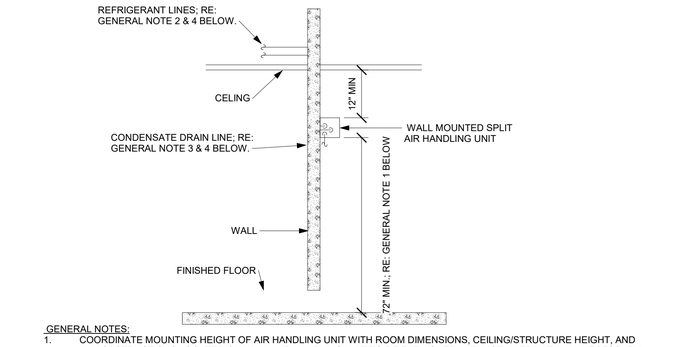
GENERAL NOTES:
1. MINIMUM OVERALL DIMENSION OF PLATFORM TO BE EQUAL TO OVERALL FOOTPRINT OF THE AIR HANDLING UNIT BEING SUPPORTED. COORDINATE WITH AIR HANDLING UNIT MANUFACTURER FOR UNIT SIZES.
2. MINIMUM CLEAR INSIDE DIMENSION OF PLATFORM TO BE SUFFICIENT FOR INSTALLATION OF RETURN AIR DUCTWORK THAT SERVES AIR HANDLING UNIT TO BE SUPPORTED. COORDINATE WITH HVAC PLANS FOR DUCTWORK SIZES.
3. EMERGENCY DRAIN PAN TO BE CONSTRUCTED OUT OF 18 GA. GALVANIZED SHEET METAL AND TO BE OF ALL WELDED CONSTRUCTION. DRAIN PAN DIMENSIONS TO BE 4" HIGH AND EXTEND A MINIMUM OF 6" ALL AROUND PLATFORM.

4 VERTICAL AHU STAND
M502 NOT TO SCALE



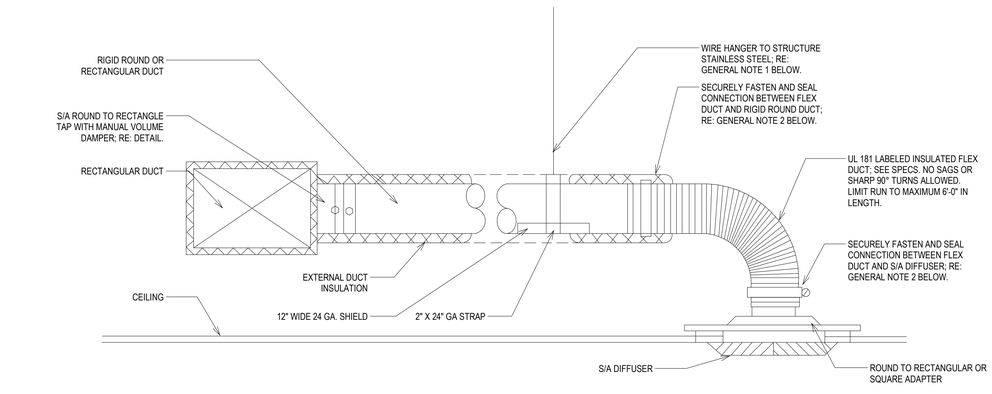
GENERAL NOTES:
1. ALL MECHANICAL ROOMS SHALL BE LINED ON INSIDE WITH 1" THICK SOUND ABSORBING SEMI-RIGID FIBERGLASS INSULATION BOARD, TYPICAL ON ALL WALLS.
2. ALL UNITS 2000 CFM AND ABOVE SHALL BE FURNISHED AND INSTALLED WITH SMOKE DETECTOR AND AUDIO/VISUAL ALARM LOCATED IN VISIBLE AREA ON NEARBY WALL.
3. EMERGENCY DRAIN PAN TO BE CONSTRUCTED OUT OF 18 GA. GALVANIZED SHEET METAL AND TO BE OF ALL WELDED CONSTRUCTION. DRAIN PAN DIMENSIONS TO BE 4" HIGH AND EXTEND A MINIMUM OF 6" ALL AROUND STAND. RE: VERTICAL AHU STAND DETAIL.
4. ALL REFRIGERANT LINES SHALL BE SIZED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT LINES SHALL BE ROUTED EXPOSED THROUGH ATTIC OR CEILING SPACE AND DOWN EXTERIOR WALL TO RESPECTIVE CONDENSING UNIT. TURN REFRIGERANT LINES OUT OF EXTERIOR WALL 0'-6" ABOVE GRADE AND SEAL WALL PENETRATION WATER TIGHT.
5. CONDENSATE DRAIN LINE SHALL BE INSTALLED WITH "P-TRAP" AND INSULATED. CONDENSATE DRAIN LINE SHALL BE ROUTED WITH DISCHARGE TO NEAREST HUB DRAIN AND MUST MAINTAIN MINIMUM 2" AIR GAP BETWEEN DRAIN TERMINATION AND HUB DRAIN/FLOOR DRAIN RIM.
6. ALL REFRIGERANT AND CONDENSATE DRAIN LINES SHALL BE ROUTED IN SUCH A MANNER AS TO NOT BLOCK OR OBSTRUCT ANY ACCESS (FILTER, COOLING COIL, FAN, ECT.) TO AIR HANDLING UNIT.

5 VERTICAL DX AIR HANDLING UNIT
M502 NOT TO SCALE



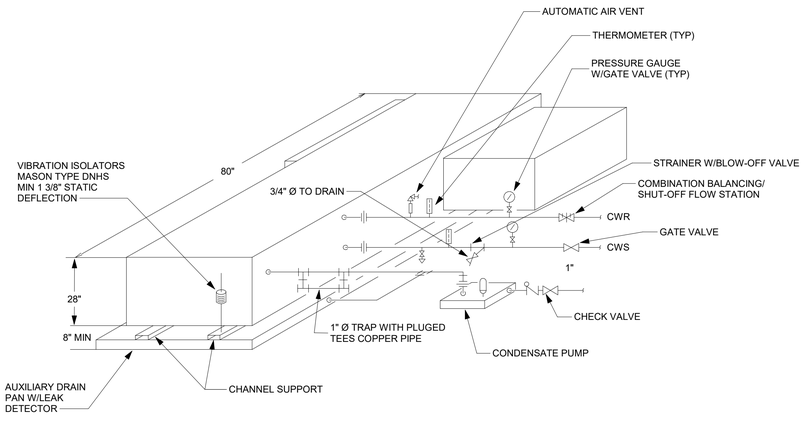
GENERAL NOTES:
1. COORDINATE MOUNTING HEIGHT OF AIR HANDLING UNIT WITH ROOM DIMENSIONS, CEILING/STRUCTURE HEIGHT, AND ANY OBSTRUCTIONS LOCATED ON WALL. AIR HANDLING UNIT TO BE FURNISHED AND INSTALLED WITH ALL NECESSARY HARDWARE FOR PROPER MOUNTING FROM FACTORY (I.E. BRACKETS, FASTENERS, WASHERS, ETC.) RE: MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS FOR MOUNTING OF UNIT.
2. ALL REFRIGERANT LINES SHALL BE SIZED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT LINES SHALL BE ROUTED THROUGH WALL AND EXPOSED THROUGH ATTIC OR CEILING SPACE TO RESPECTIVE CONDENSING UNIT LOCATED AT EXTERIOR. SEAL EXTERIOR WALL/ROOF PENETRATION WATER TIGHT.
3. CONDENSATE DRAIN LINE SHALL BE INSTALLED WITH "P-TRAP" AND INSULATED. CONDENSATE DRAIN LINE SHALL BE ROUTED WITH DISCHARGE TO NEAREST HUB DRAIN AND MUST MAINTAIN MINIMUM 2" AIR GAP BETWEEN DRAIN TERMINATION AND HUB DRAIN RIM.
4. ALL REFRIGERANT AND CONDENSATE DRAIN LINES SHALL BE ROUTED IN SUCH A MANNER AS TO NOT BLOCK OR OBSTRUCT ANY ACCESS (FILTER, COOLING COIL, FAN, ECT.) TO AIR HANDLING UNIT.

6 HVAC - WALL MOUNTED AIR HANDLING UNIT
M502 NOT TO SCALE



GENERAL NOTES:
1. PROVIDE SUPPORT ON ALL BRANCH DUCT RUNOUTS AS PER SMACNA STANDARDS AND WITH A MINIMUM OF (2) SUPPORTS ON BRANCHDUCTS OVER 6'-0" IN LENGTH AND (1) SUPPORT ON BRANCH DUCTS UNDER 6'-0" IN LENGTH.
2. CONNECTION TO BE MADE WITH PRESSURE SENSITIVE TAPE, AS PER SECTION 603.9 OF IMC, AS WELL AS A STAINLESS STEEL SCREW DRIVER OPERATED BAND. ALL FLEX DUCT CONNECTIONS SHALL ADHERE TO SECTION 603.9 OF 2021 IMC AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7 TYPICAL DIFFUSER CONNECTION
M502 NOT TO SCALE



8 HORIZONTAL WATER - COOLED A.C. UNIT PIPING HOOK-UP
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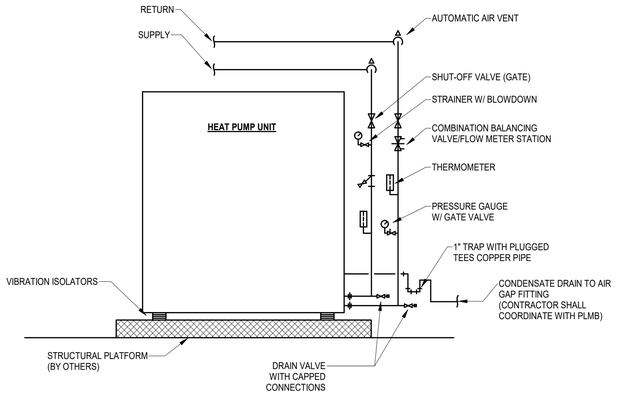
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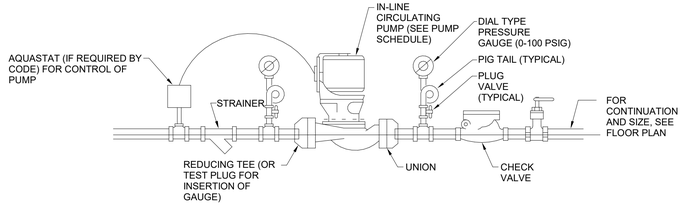
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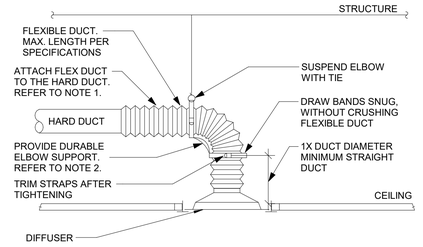
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1 M503 PACKAGED VERTICAL - WATER COOLED HEAT PUMP UNIT PIPING DETAIL
NOT TO SCALE



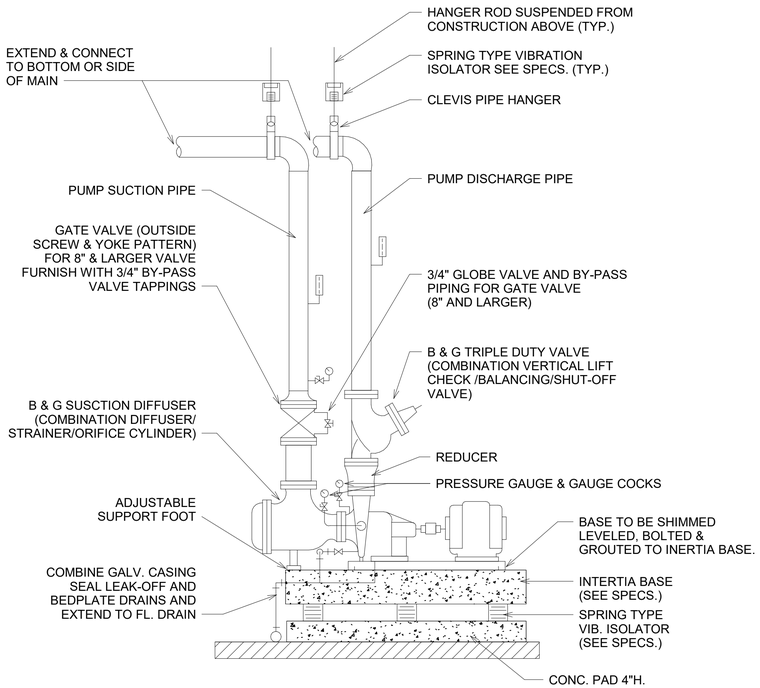
2 M503 IN-LINE PUMP DETAIL
NOT TO SCALE



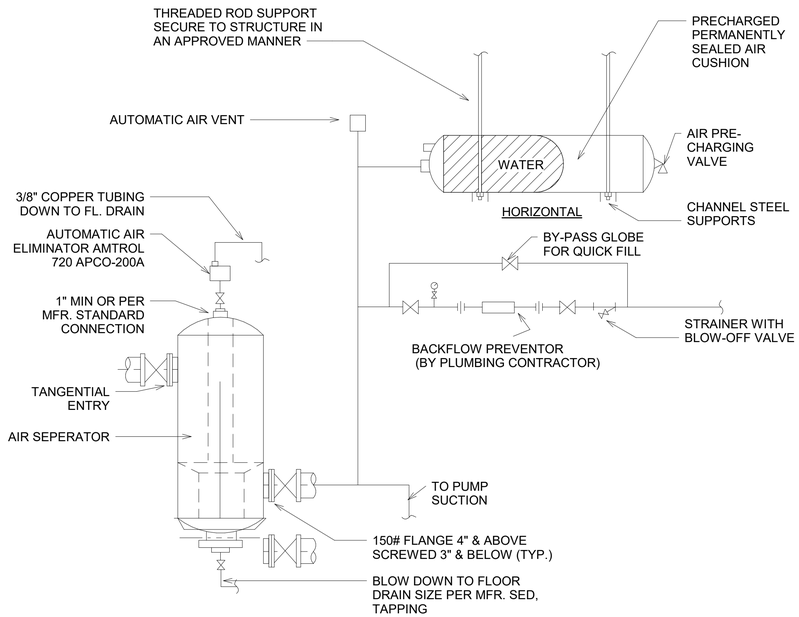
NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY -SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS -FLEXRIGHT, OR APPROVED EQUAL.

3 M503 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)
NOT TO SCALE



4 M503 END-SUCTION WATER PUMP INSTALLATION WITH SUCTION DIFFUSER AND TRIPLE DUTY VALVE
NOT TO SCALE



5 M503 COMPRESSION TANK W/AIR SEPARATOR PRECHARGE DIAPHRAGM TYPE (AMTROL OR APPROVED EQUAL)
NOT TO SCALE

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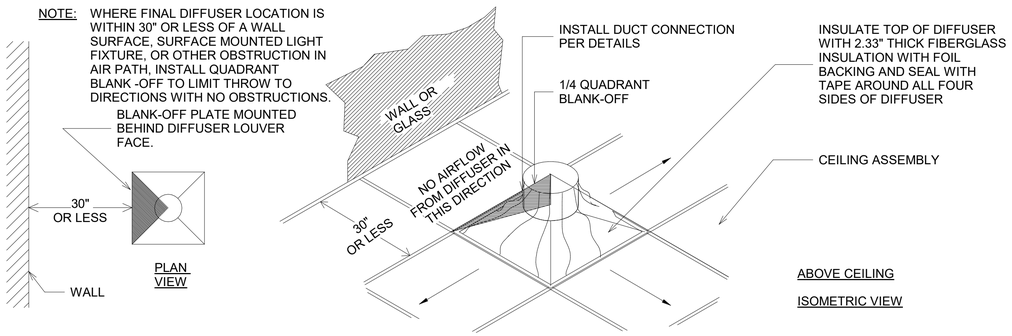
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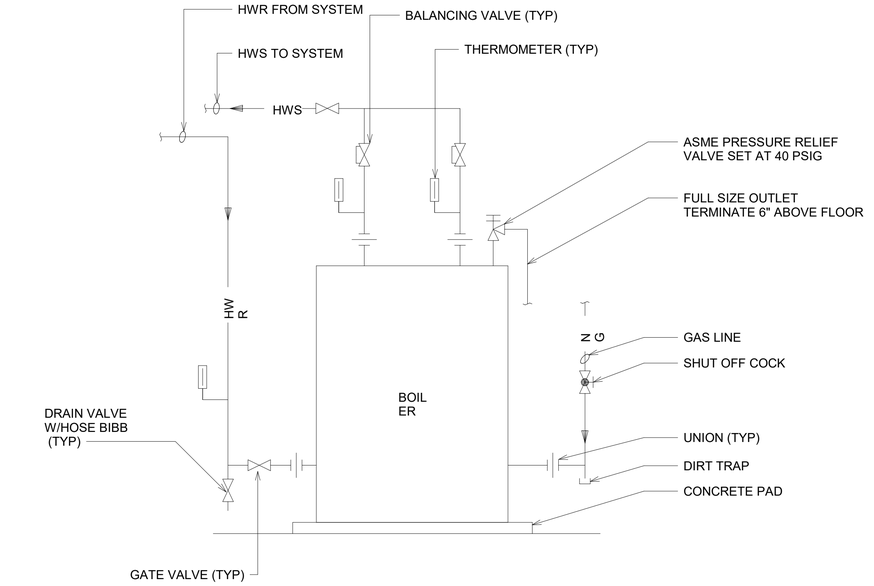
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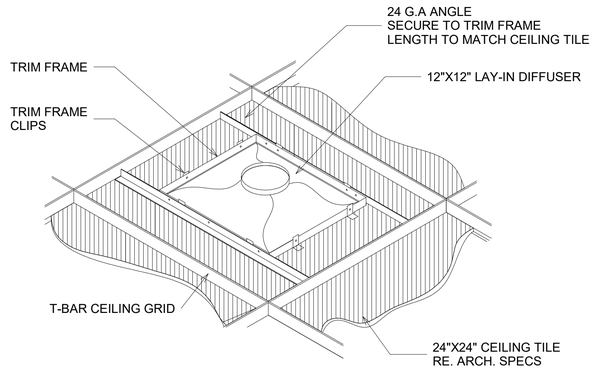
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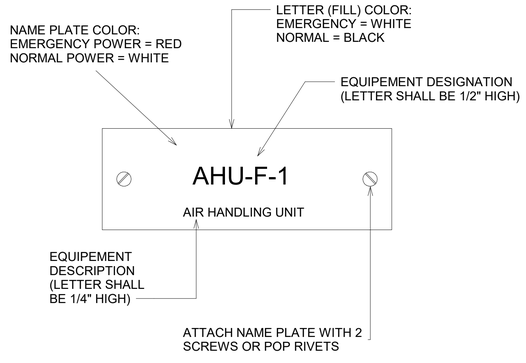
1 M504 DIFFUSER THROW CONTROL DETAIL
NOT TO SCALE



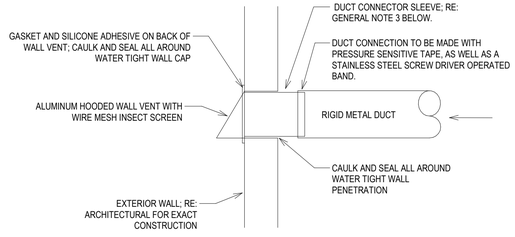
2 M504 GAS FIRED HOT WATER BOILER PIPING DIAGRAM
NOT TO SCALE



3 M504 TRIM FRAME INSTALLATION DETAIL
NOT TO SCALE



4 M504 PLASTIC LAMINATE NAME PLATE DETAIL
NOT TO SCALE



GENERAL NOTES:
1. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND RECOMMENDATIONS FOR EXACT MOUNTING REQUIREMENTS OF WALL VENT IN EXTERIOR WALL.
2. ALL EXHAUST AIR OUTLETS AND AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10'-0" APART, UNLESS OTHERWISE NOTED ON PLANS.
3. WALL VENT/CONNECTOR SLEEVE TO BE SAME SIZE AS CONNECTED DUCT SIZE SHOWN ON PLANS.
4. INSULATE ALL OUTSIDE AIR DUCTWORK.

5 M504 SIDEWALL VENT CAP
NOT TO SCALE

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GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL STATE AND LOCAL CODES.
2. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND STRUCTURAL MEMBERS AND SHALL FOLLOW STRUCTURAL SURFACE CURVES. MULTIPLE RACEWAYS SHALL BE GROUPED TOGETHER WHEREVER POSSIBLE. PROVIDE ADVANCED NOTICE OF ANY PUBLICLY VISIBLE RACEWAYS WHICH SHALL BE APPROVED BY THE ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
3. UNIT DISCONNECTING MEANS FOR ALL EQUIPMENT SHALL BE ACCESSIBLE AND SHALL HAVE THE REQUIRED NEC CLEARANCES. ALL FUSED DISCONNECTS SHALL BE PROVIDED WITH FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT ACCORDING TO THE MANUFACTURER.
4. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, TRANSFORMERS, SWITCHBOARDS, AND SWITCHGEAR SHALL BE INSTALLED ON A 4 INCH HOUSEKEEPING PAD. THE MOUNTING OF THE HIGHEST CIRCUIT BREAKER SHALL NOT EXCEED 72" PER NEC.
5. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF JUNCTION BOXES, CONDUITS, ETC. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND MEASUREMENTS ON SITE TO IDENTIFY POTENTIAL CONFLICTS WITH OTHER TRADES. THE CONTRACTOR SHALL WORK WITH ALL OTHER TRADES AND MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE FOR EXISTING BUILDING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING EXISTING SITE CONDITIONS AND PROJECT REQUIREMENTS PRIOR TO BIDDING. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN WORKMAN-LIKE MANNER.
6. CONTRACTOR SHALL PROVIDE ALL SUPPORTS AS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.
7. U.L. LISTED FIRESTOP MATERIALS ARE REQUIRED AT ALL PENETRATIONS THROUGH RATED FLOORS, WALLS, CEILINGS, AND PARTITIONS.
8. CONTRACTOR SHALL PROVIDE PANEL SCHEDULES FOR ALL PANELBOARDS, SWITCHBOARDS, ETC. IN COMPLIANCE WITH NEC 408.4(A) AND 408.4(B). SEE NAMEPLATE DETAIL FOR ADDITIONAL REQUIREMENTS.
9. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACHIEVE AN INSTALLATION COMPLETED IN A NEAT, WORKMAN-LIKE MANNER. COORDINATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
   a. PRIOR TO COMMENCING WORK, REVIEW THE CONTRACT DOCUMENTS OF ALL TRADES INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, LANDSCAPING, ETC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT.
   b. THE CONTRACTOR SHALL WORK WITH THE CONTRACTORS OF OTHER TRADES WITH PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK. CONTRACTORS SHALL COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT, DEVICES, AND LIGHTING FIXTURES WITH RACEWAYS, PIPING, EQUIPMENT TO MAINTAIN THE CEILING HEIGHT DETERMINED BY THE ARCHITECT.
   c. THE ELECTRICAL SCOPE REQUIREMENTS ARE DESCRIBED IN THE PLANS AND SPECIFICATIONS FOR A SUBSTANTIAL PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER.

BASE FLOOD ELEVATION NOTES

1. FOR CONSTRUCTION IN FLOOD ZONE X: ALL MEP/FP EQUIPMENT THAT IS NOT SUBMERSIBLE SHALL BE INSTALLED AT A MINIMUM ELEVATION OF 3 FEET ABOVE THE STREET CURB. IF NO CURB EXISTS, THE CENTERLINE OF THE HIGHEST ADJACENT STREET SHALL BE USED AS DATUM.
2. FOR CONSTRUCTION IN FLOOD ZONES A AND V: ALL MEP/FP EQUIPMENT THAT IS NOT SUBMERSIBLE SHALL BE INSTALLED AT A MINIMUM ELEVATION OF 3 FEET ABOVE THE STREET CURB, OR 1 FOOT ABOVE THE BASE FLOOD ELEVATION AS DEFINED BY NEW ORLEANS' FLOOD INSURANCE RATE MAP (FIRM), WHICHEVER ELEVATION IS GREATER. IF NO CURB EXISTS, THE CENTERLINE OF THE HIGHEST ADJACENT STREET SHALL BE USED AS DATUM.

BRANCH CIRCUIT CONDUCTOR SCHEDULE (20A)

VOLTAGE	LENGTH	CONDUCTORS (QTY & SIZE)	GROUND (SIZE)	CONDUIT SIZE
120V	LESS THAN 70'	2#12	#12	3/4"
120V	70'-100'	2#10	#10	3/4"
120V	101'-160'	2#8	#8	1"
120V	OVER 160'	ASK ENGR	ASK ENGR	ASK ENGR
277V	LESS THAN 140'	2#12	#12	3/4"
277V	140'-240'	2#10	#10	3/4"
277V	241'-370'	2#8	#8	1"
277V	OVER 370'	ASK ENGR	ASK ENGR	ASK ENGR

POWER EQUIPMENT LEGEND

- SWITCHBOARD, DISTRIBUTION PANEL, MOTOR CONTROL CENTER, OR SWITCHGEAR
- LIGHTING CONTROL PANEL (LCP)
- I-LINE PANELBOARD
- 208V BRANCH CIRCUIT PANELBOARD
- 480V BRANCH CIRCUIT PANELBOARD
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT
- METER
- T — TRANSFORMER
- SPD — SURGE PROTECTION DEVICE
- ATS — AUTOMATIC TRANSFER SWITCH

SYSTEMS DEVICE LEGEND

- A — WALL MOUNTED JUNCTION BOX FOR DOOR ACCESS CONTROL
- CR — CARD READER
- C — WALL MOUNTED CAMERA
- C — CEILING MOUNTED CAMERA
- W — WALL MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT
- W E — CEILING MOUNTED WIRELESS ACCESS POINT EXISTING
- S — CEILING MOUNTED ROUND SPEAKER
- S — CEILING MOUNTED SQUARE SPEAKER
- WALL MOUNTED COPPER/FIBER DATA OUTLET
- 2 — WALL MOUNTED COPPER TELE/DATA OUTLET SUBSCRIPT INDICATES NUMBER OF JACKS
- CEILING MOUNTED COPPER TELE/DATA OUTLET
- T — WALL MOUNTED COAX OUTLET

RACEWAY LEGEND

- BRANCH CIRCUIT HOMERUN TO PANELBOARD. TEXT INDICATED PANELBOARD NAME AND CIRCUIT NUMBER.
- UNDERGROUND BRANCH CIRCUIT CONDUIT (CONCEALED IN SLAB OR UNDER FLOOR).
- CONDUIT RUN CONCEALED IN WALLS OR CEILING, OR EXPOSED WHEN CEILINGS ARE NOT PRESENT
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- UP — CONDUIT UP
- DN — CONDUIT DOWN
- CONDUIT STUB WITH CAP
- GROUND

POWER DEVICE LEGEND

- DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE, NEMA RATING AS NOTED
- GFCI RECEPTACLE
- CT — KITCHEN COUNTERTOP RECEPTACLE @44" AFF UNO
- QUADRAPLEX RECEPTACLE
- a — SWITCHED DUPLEX RECEPTACLE "a" - LOWERCASE LETTER INDICATES CONTROLLING SWITCH
- USB — USB DUPLEX RECEPTACLE WITH (2) USB PORTS
- WP — GFCI RECEPTACLE WITH (WP) WEATHERPROOF COVER
- CEILING MOUNTED DUPLEX RECEPTACLE
- J — CEILING MOUNTED JUNCTION BOX
- J — WALL MOUNTED JUNCTION BOX
- FLOOR OUTLET BOX AND DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE
- FLOOR OUTLET BOX AND TWO DUPLEX RECEPTACLES WITH APPROPRIATE FLANGE
- FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE AND COMBINATION W/ VOICE/DATA OUTLET
- FLOOR OUTLET BOX WITH TWO DUPLEX RECEPTACLES AND ONE COMBINATION W/ VOICE/DATA OUTLET

FIRE ALARM EQUIPMENT LEGEND

- F — PULL STATION
- SMOKE DETECTOR
- 120V — 120 VOLT
- LF — LOW FREQUENCY SOUNDER BASE
- CO — CARBON MONOXIDE DETECTOR COMBO
- E — ELEVATOR
- SMOKE DUCT DETECTOR
- S — SUPPLY
- R — RETURN
- F — WALL MOUNT HORN STROBE
- F F — PULL STATION MOUNTED BELOW HORN STROBE
- ST — WALL MOUNT STROBE
- SS — WALL MOUNT SPEAKER STROBE
- ST — CEILING MOUNT STROBE
- SS — CEILING MOUNT SPEAKER STROBE
- F — CEILING MOUNT HORN STROBE
- FIRE ALARM PANEL AS INDICICATED ON PLAN: FIRE ALARM CONTROL PANEL (FACP) FIRE ALARM ANNUNCIATOR (FAA) TWO-WAY COMMUNICATION PANEL
- TS — TAMPER SWITCH MONITOR MODULE
- FS — FLOW SWITCH MONITOR MODULE
- MM — MONITOR MODULE

LIGHTING LEGEND

- DOWNLIGHT - RECESSED, WALL WASHER, ADJUSTABLE, PENDANT, OR MONOPOINT
- IN-GRADE FIXTURE
- DECORATIVE PENDANT
- SURFACE MOUNT FIXTURE
- DECORATIVE SCONCE
- WALL PACK
- EMERGENCY LIGHTS
- EXIT LIGHT FIXTURE - MOUNTING, FACES, AND CHEVRONS PER PLAN
- EXIT LIGHT FIXTURE - WALL MOUNTED - FACES AND CHEVRONS PER PLAN
- LAY-IN FIXTURE
- ARCHITECTURAL LINEAR FIXTURE - MOUNTING PER PLAN
- LINEAR STRIP FIXTURE - MOUNTING PER PLAN
- WALL MOUNTED LINEAR FIXTURE
- UNDER CABINET FIXTURE
- TAPE LIGHT
- TRACK LIGHT
- BOLLARD
- CEILING FAN
- LIGHTING FIXTURE TAG: "DR2" - FIXTURE TYPE (SEE FIXTURE SCHEDULE) "LP1" - ELECTRICAL PANEL "9" - CIRCUIT NUMBER "a" - LOWER CASE LETTER INDICATES CONTROLLING SWITCH "zb" - LIGHTING CONTROL ZONE (DR2 LP1-9a / DR2 LP1-9zb)
- S_a — SINGLE POLE SWITCH ("a" INDICATES FIXTURES CONTROLLED)
- S_3 — THREE-WAY SWITCH
- S_4 — FOUR-WAY SWITCH
- D_a — SINGLE POLE DIMMER SWITCH ("a" INDICATES FIXTURES CONTROLLED)
- S_M — MOMENTARY SWITCH
- S_F — FAN SWITCH
- S_H — HUMIDISTAT SWITCH
- S_{za} — LOW VOLTAGE SWITCH ("za" INDICATES ZONE BEING CONTROLLED)
- S_T — ASTRONOMICAL TIME CLOCK SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR
- WALL MOUNTED DUAL OCCUPANCY SENSOR
- D — DAYLIGHTING SENSOR

GENERAL DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
2. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT, AND WIRE IN WALLS AND CEILINGS TO BE DEMOLISHED SHALL BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE ARCHITECTURAL PHASING AND DEMOLITION PLAN AS WELL AS THE PROJECT AREA PRIOR TO BID TO DETERMINE THE REQUIRED DEMOLITION SCOPE.
3. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION.
4. ALL CONDUITS SERVING OTHER SPACES OR FLOORS THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION. DISRUPTION TO ANY OTHER SPACES SHALL NOT BE ACCEPTABLE WITHOUT PRIOR OWNER APPROVAL. THE CONTRACTOR SHALL ENSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED WITH BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
6. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR PHASING WORK AS REQUIRED BY THE ARCHITECT; REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICE (POWER, LIGHTING, FIRE ALARM, ETC) SHALL BE PROVIDED WHERE NEW WORK AFFECTS AREAS THAT ARE REQUIRED TO REMAIN ACTIVE. IF FIRE ALARM SYSTEM CANNOT BE MAINTAINED IN THE CONSTRUCTION AREA, A FIRE WATCH SHALL BE PROVIDED.
7. CONTRACTOR SHALL PROVIDE MEANS OF AUTOMATIC SMOKE DETECTION VIA INSTALLED SMOKE DETECTORS CONNECTED TO THE FACILITY FIRE ALARM SYSTEM FOR COVERAGE DURING NON-OCCUPIED PERIODS WITHIN THE CONSTRUCTION AREA.
8. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
9. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
10. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
11. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
12. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
13. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
14. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
15. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
16. PROVIDE SUPPORTS EVERY 5' FOR ANY EXISTING CONDUIT, CABLE, ETC. WITHIN THE PROJECT AREA THAT IS NOT CURRENTLY SUPPORTED EVERY 5'.

ELECTRICAL SHEET INDEX

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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	(D)	DEMOLISH/DELETE	GND	GROUND	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
AFP	ARC FAULT PROTECTOR	E	EMERGENCY	GRC	GALVANIZED RIGID CONDUIT	OFOI	OWNER FURNISED OWNER INSTALLED
AIC	AMP INTERRUPTING CURRENT (SYMMETRICAL)	(EX)	EXISTING	IG	ISOLATED GROUND	PNL	PANEL
AL	ALUMINUM	EPO	EMERGENCY POWER OFF	MCB	MAIN CIRCUIT BREAKER	(R)	RELOCATE
BG	BELOWGRADE	EWC	ELECTRIC WATER COOLER	MCC	MOTOR CONTROL CENTER	(RM)	REMOVE AND RETURN TO OWNER
C	CONDUIT	EWH	ELECTRIC WATER HEATER	MH	MANHOLE	TR	TAMPER RESISTANT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	(F)	FUTURE	MLO	MAIN LUGS ONLY	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CKT	CIRCUIT	FA	FIRE ALARM	(N)	NEW	TYP	TYPICAL
CO	CONDUIT ONLY	FLA	FULL LOAD AMPS	NIC	NOT IN CONTRACT	UNO	UNLESS NOTED OTHERWISE
CU	COPPER	GFI	GROUND FAULT INTERRUPTER	NL	NIGHT LIGHT	WP	WEATHER PROOF
C/W	COMPLETE WITH	GFP	GROUND FAULT PROTECTOR	OC	ON CENTER	XMR	TRANSFORMER

*THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

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STUDIO WEST PROJECT NO. | 22003

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ISSUE DATE | 1 AUGUST 2025
CONSTRUCTION DOCUMENTS
REVISIONS

ELECTRICAL TITLE SHEET

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ELECTRICAL SPECIFICATIONS

THE INSTALLATION SHALL MEET THE MINIMUM STANDARDS PRESCRIBED IN THE LATEST EDITIONS (UNLESS NOTED OTHERWISE) OF THE FOLLOWING LISTED CODES AND STANDARDS, WHICH ARE MADE A PART OF THESE SPECIFICATIONS, EXCEPT AS MAY BE HEREINAFTER SPECIFICALLY MODIFIED IN THESE SPECIFICATIONS AND ASSOCIATED DRAWINGS.

A. NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (NFPA):
   a. NFPA NO. 70, NATIONAL ELECTRICAL CODE (2020)
   b. NFPA NO. 101, LIFE SAFETY CODE (2015)
B. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
   a. C 2, NATIONAL ELECTRICAL SAFETY CODE
   b. A117.1, HANDICAPPED CODE
C. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME): SECTION IV, V, CSD-1
D. AMERICAN SOCIETY OF TESTING MATERIALS (ASTM): ALL APPLICABLE MANUALS AND STANDARDS.
E. NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION (NEMA): ALL APPLICABLE MANUALS AND STANDARDS.
F. STATE OCCUPATIONAL SAFETY ACT: ALL APPLICABLE SAFETY STANDARDS.
G. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA): NATIONAL SANITATION FOUNDATION, STANDARD NO. 2
H. AMERICANS WITH DISABILITIES ACT
I. UNDERWRITERS LABORATORIES, INC. (UL)
J. APPLICABLE BUILDING CODES.
K. 2021 INTERNATIONAL BUILDING CODE (IBC) WITH LOUISIANA AMENDMENTS.

SCOPE OF ELECTRICAL WORK:

THE WORK PROVIDED UNDER THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS, INSPECTIONS AND REINSPECTION FEES, TOOLS, EQUIPMENT, TRANSPORTATION, INSURANCE, TEMPORARY PROTECTION, TEMPORARY LIGHTING, SUPERVISION AND INCIDENTAL ITEMS ESSENTIAL FOR PROPER INSTALLATION AND OPERATION. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR ESSENTIAL FOR PROPER INSTALLATION AND OPERATION OF ALL ELECTRICAL SYSTEMS AS INDICATED IN CONTRACT DOCUMENTS.

WORKMANSHIP:

WORKMANSHIP TO MEET N.E.C.A. GUIDELINES.

ARRANGE ELECTRICAL WORK IN A NEAT, WELL-ORGANIZED MANNER WITH EXPOSED CONDUIT AND SIMILAR SERVICES RUNNING PARALLEL WITH PRIMARY LINES OF THE BUILDING CONSTRUCTION, AND WITH A MINIMUM OF 8'-0" OVERHEAD CLEARANCE OR AS DIRECTED BY THE ARCHITECT.

COORDINATION OF ELECTRICAL WORK:

CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN SHOWING CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE ELECTRICAL WORK, AND IN ITS INTERFACE WITH OTHER WORK INCLUDING UTILITIES AND MECHANICAL WORK, AND THAT SUCH ESTABLISHMENT IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

ADVISE OTHER TRADES OF OPENINGS REQUIRED IN THEIR WORK FOR THE SUBSEQUENT MOVE-IN OF LARGE UNITS OF ELECTRICAL WORK (EQUIPMENT).

VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

REFER TO MANUFACTURER'S EQUIPMENT SPECIFICATIONS FOR ROUGH-IN REQUIREMENTS.

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. FOR ALL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION, CONSULT MANUFACTURER'S LITERATURE PRIOR TO INSTALLING ELECTRICAL ROUGH-INS OR PURCHASING ASSOCIATED ELECTRICAL DEVICES AND EQUIPMENT. BRING ANY DISCREPANCIES BETWEEN THE MANUFACTURER'S LITERATURE AND THE ELECTRICAL DRAWINGS TO THE IMMEDIATE ATTENTION OF THE ELECTRICAL ENGINEER.

VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.

ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS.

REFER TO THE ELECTRICAL DRAWINGS FOR GRAPHIC REPRESENTATIONS, SCHEDULES, AND NOTATIONS SHOWING ELECTRICAL WORK.

THE DRAWINGS SHOW APPROXIMATE LOCATIONS ONLY OF FEEDERS, BRANCH CIRCUITS, OUTLETS, ETC., EXCEPT WHERE SPECIFIC ROUTING OR DIMENSIONS ARE INDICATED. THE ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS INDICATED BEFORE ROUGHING-IN WITHOUT ADDITIONAL COST TO THE OWNER.

BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OF THE OFFSETS, FITTINGS, AND ACCESSORIES REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING FITTINGS, BENDS, JUNCTION BOXES, PULLBOXES, ACCESS PANELS, AND ACCESSORIES REQUIRED TO MEET SUCH CONDITIONS.

COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES WITH OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING-IN THE BUILDING.

COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.

WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL ELECTRICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.

INSTALL ELECTRICAL EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.

COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, AND STRUCTURAL COMPONENTS.

CONTACT AND MEET WITH THE ELECTRICAL ENGINEER AT THE JOB SITE PRIOR TO BEGINNING WORK TO REVIEW PROJECT REQUIREMENTS.

SITE VISIT:

PRIOR TO BIDDING JOB, CONTRACTOR SHALL VISIT JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH EQUIPMENT, FIXTURES, AND DEVICES TO BE LOCATED, INSTALLED, OR REMOVED.

LOAD MEASUREMENTS:

WHERE NEW BRANCH CIRCUITS OR FEEDERS ARE ADDED TO EXISTING DISTRIBUTION EQUIPMENT, CONTRACTOR SHALL TAKE LOAD MEASUREMENTS IN ACCORDANCE WITH NFPA 70:220.87(1), EXCEPTION: LOAD MEASUREMENT READINGS SHALL BE DELIVERED TO THE ENGINEER FOR VERIFICATION OF EXISTING DISTRIBUTION EQUIPMENT SIZES. ELECTRICAL ROUGH-INS FOR NEW CIRCUITS AND FEEDERS SHALL NOT BEGIN UNTIL EXISTING DISTRIBUTION EQUIPMENT CAPACITIES ARE VERIFIED BY THE ENGINEER.

SITE WORK:

EXISTING UTILITIES:

LOCATE AND PROTECT EXISTING UTILITIES IN A MANNER WHICH WILL ENSURE THAT NO DAMAGE IS DONE TO PERSONNEL OR PROPERTY.

CAREFULLY PLAN ALL WORK TO AVOID EXISTING UTILITIES AND OTHER INTERFERENCES. EXISTING UTILITY LINES TO BE RETAINED THAT ARE SHOWN ON THE DRAWINGS OR THE LOCATIONS OF WHICH ARE MADE KNOWN TO THE CONTRACTOR.

ELECTRICAL SERVICE:

EXISTING THREE-PHASE, FOUR-WIRE, 208Y/120-VOLT ELECTRICAL SERVICE

TELEPHONE SERVICE:

COORDINATE TELEPHONE SERVICE AND ALL REQUIRED OUTAGES WITH THE OWNER AND THE UTILITY.

TEMPORARY ELECTRICITY:

PROVIDE TEMPORARY POWER DURING CONSTRUCTION. FURNISH AND INSTALL ALL NECESSARY TEMPORARY POWER, METERING, LIGHTING, OR WIRING THAT IS REQUIRED TO INSURE QUALITY WORKMANSHIP EVERYWHERE.

DEMOLITION:

REMOVE ALL BRANCH CIRCUIT CONDUCTORS AND CONDUIT, WHICH SERVE AREAS TO BE DEMOLISHED, BACK TO THE ELECTRICAL PANELBOARDS, UNLESS OTHERWISE NOTED.

REMOVE BOXES, LIGHT FIXTURES, AND WIRING DEVICES IN AREAS TO BE DEMOLISHED.

REMOVE COMMUNICATION EQUIPMENT AND CABLE.

COOPERATE FULLY WITH THE OWNER WHEN REMOVING COMMUNICATIONS EQUIPMENT AND CABLE.

SPECIAL CARE SHALL BE EXERCISED WHEN REMOVING COMMUNICATIONS EQUIPMENT AND CABLE. CERTAIN CABLE MUST NOT BE DISCONNECTED. CONSULT THE OWNER MANAGER WHEN IN DOUBT.

EXTEND CONDUITS AND CONDUCTORS TO MAINTAIN ELECTRICAL CONTINUITY OF ELECTRICAL EQUIPMENT SERVING AREAS NOT DEMOLISHED AS REQUIRED. THIS APPLIES TO BOTH POWER AND COMMUNICATIONS CIRCUITS.

SUBMITTALS:

BEFORE PURCHASE OF ANY MATERIALS PROVIDE SUBMITTALS ON THE FOLLOWING EQUIPMENT FOR THE ARCHITECT'S REVIEW AND COMMENT:

WIRING DEVICES
CIRCUIT BREAKERS
SAFETY SWITCHES
LIGHTING FIXTURES
LIGHTING DEVICES
PANELBOARDS

DEVIATION FROM THESE SPECIFICATIONS SHALL BE APPROVED PRIOR TO BIDDING THE WORK.

DELIVERY, STORAGE, AND HANDLING:

DELIVER PRODUCTS TO PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS, AND SIMILAR INFORMATION NEEDED FOR DISTINCT IDENTIFICATIONS, ADEQUATELY PACKAGED AND PROTECTED TO PREVENT DAMAGE DURING SHIPMENT, STORAGE, AND HANDLING. STORE EQUIPMENT AND MATERIALS AT THE SITE, UNLESS OFF-SITE STORAGE IS AUTHORIZED IN WRITING. PROTECT STORED EQUIPMENT AND MATERIALS FROM DAMAGE. COORDINATE DELIVERIES OF ELECTRICAL MATERIALS AND EQUIPMENT TO MINIMIZE CONSTRUCTION SITE CONGESTION.

IDENTIFICATION:

IDENTIFY ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, SAFETY SWITCHES, ETC.) AND CONTROLS WITH LABELS. SEE ELECTRICAL DETAILS FOR REQUIREMENTS. IDENTIFY ALL JUNCTION BOXES CONTAINING CONDUCTORS WITH BRANCH TYPEWRITTEN LABELS CONTAINING CIRCUIT NUMBERS AND PANEL NAMES.

PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES IN ALL PANELBOARDS.

GENERAL WIRING METHODS:

GENERALLY, UNLESS OTHERWISE INDICATED, WIRING FOR ALL SYSTEMS CALLED FOR IN THESE SPECIFICATIONS AND SHOWN ON DRAWINGS SHALL CONSIST OF INSULATED COPPER CONDUCTORS INSTALLED IN METAL RACEWAY. MC CABLE NOT PERMITTED UNLESS NOTED OTHERWISE.

ALL BRANCH CIRCUIT WIRING SHALL BE AWG #12 UNLESS OTHERWISE NOTED. FIXTURE WHIPS (MAXIMUM SIX (6) FT LENGTH) SHALL BE #14.

PROVIDE SEPARATE GROUND CONDUCTOR IN ALL FEEDER CIRCUITS AND BRANCH CIRCUITS SERVING RECEPTACLES AND EQUIPMENT. LIGHTING CIRCUITS SHALL UTILIZE CONDUIT AS GROUND.

ELECTRICAL SUPPORTS:

PROVIDE UL LISTED ELECTRICAL SUPPORTS IN LOCATIONS REQUIRED BY NFPA 70. ELECTRICAL SUPPORTS SHALL BE GALVANIZED STEEL INSIDE, TYPE 316 STAINLESS STEEL OUTSIDE, UNLESS NOTED OTHERWISE. SUPPORTS SHALL BE GALVANICALLY COMPATIBLE WITH RACEWAY, BOXES, AND EQUIPMENT SUPPORTED.

CONDUCTORS AND CABLES:

CONDUCTORS FOR POWER AND LIGHTING SHALL BE COPPER, THHN / THWN-2, 90-DEGREES C RATED, COMPLYING WITH NEMA WC 5 OR 7. SIZES #10 AND SMALLER TO BE SOLID CONDUCTOR, LARGER SIZES SHALL BE STRANDED.

SPECIAL SYSTEM CABLES SHALL BE AS REQUIRED BY THE SYSTEM MANUFACTURER.

ALL WIRING SHALL BE COLOR CODED TO COMPLY WITH NEC AND PANELS SHALL PROVIDE IDENTIFICATION AS TO CONDUCTOR COLOR CODING.

COLOR CODE 208Y/120-VOLT SYSTEM CONDUCTORS AS FOLLOWS:

PHASE A: BLACK.
PHASE B: RED.
PHASE C: BLUE.

ELECTRICAL BOXES:

SHEET METAL DEVICE AND OUTLET BOXES: NEMA OS1

CAST METAL OUTLET AND DEVICE BOXES: NEMA FB1, TYPE FD WITH GASKETED COVER.

SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS1

ALL JUNCTION AND OUTLET BOXES LOCATED OUTSIDE SHALL BE WEATHERPROOF AND CORROSION-RESISTANT IN CONSTRUCTION WITH ALL PROPER THREADING AND GASKETING REQUIRED TO PREVENT MOISTURE FROM ENTERING THE BOX. WHERE POLYCARBONATE OR FIBERGLASS BOXES ARE PROVIDED, SAID BOXES SHALL BE PROTECTED FROM DIRECT SUN EXPOSURE OR LISTED FOR USE IN DIRECT SUN.

RACEWAY:

RIGID GALVANIZED STEEL CONDUIT (RGS): ANSI C80.1
ELECTRICAL METALLIC TUBING (EMT): ANSI C80.3
LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC): FLEXIBLE STEEL CONDUIT WITH PVC JACKET.
FITTINGS: NEMA FB1, GALVANICALLY COMPATIBLE WITH CONDUIT MATERIAL. FITTINGS FOR RGS SHALL BE THREADED. FITTINGS FOR EMT SHALL BE SET SCREW OR COMPRESSION.
ALL WIRING SHALL BE INSTALLED IN METAL CONDUIT.

ALL CONDUIT SHALL BE MINIMUM THREE-QUARTER INCH (0.75") IN SLABS AND ONE-HALF INCH (0.5") FOR BRANCH CIRCUIT WIRING NOT IN SLABS.

ALL CONDUIT SHALL BE INSTALLED TO PROVIDE ADEQUATE GROUNDING BETWEEN ALL OUTLETS AND THE ESTABLISHED ELECTRICAL GROUND. THE CONDUIT RACEWAY OF ALL POWER AND RECEPTACLE CIRCUITS SHALL NOT BE USED AS THE SYSTEM GROUND. A SEPARATE GREEN CONDUCTOR SHALL BE RUN IN ALL CONDUITS SERVING POWER AND RECEPTACLE CIRCUITS. A SEPARATE FULL SIZE GROUNDING CONDUCTOR SHALL BE INSTALLED IN FLEXIBLE METALLIC CONDUIT RACEWAYS.

CONDUITS INDOORS IN DRY LOCATIONS, NOT IN GROUND FLOOR SLAB, SHALL BE ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE NOTED. CONDUITS IN WET LOCATIONS, OR IN GROUND FLOOR SLAB SHALL BE RIGID METAL CONDUIT (RGS). RIGID SCHEDULE 40 PVC MAY BE USED UNDERGROUND AND SHALL UTILIZE RIGID METAL CONDUIT WHEN CONDUIT RISE OUT OF GROUND INCLUDING 90 DEGREE ELBOW.

ALL CONDUITS SHALL BE CUT SQUARE AND FREE OF BURRS DUE TO CUTTING OR MANUFACTURE. PROVIDE AND INSTALL CONDUIT BUSHINGS WHERE NECESSARY.

ALL CONDUIT SHALL BE INSTALLED WITH EXTERIOR SURFACES NOT LESS THAN SIX INCHES (6") FROM ANY SURFACE WITH TEMPERATURE OF 200 DEGREES F. OR HIGHER.

ALL CONDUITS SHALL BE PLUGGED AT THE ENDS OF EACH ROUGHED-IN RACEWAY WITH AN APPROVED CAP OR DISC TO PREVENT THE ENTRY OF FOREIGN MATERIALS DURING CONSTRUCTION.

ALL CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF BENDS AND OFFSETS AND SUPPORT IN ACCORDANCE WITH NECA REQUIREMENTS. ALL BENDS SHALL BE MADE WITHOUT KINKING OR REDUCING THE DIAMETER OF THE RACEWAY. ALL CONDUIT INSTALLED UNDER SLABS SHALL BE SUPPORDED WITH STAINLESS STEEL SUPPORT RODS ONE-QUARTER INCH (0.25") FROM THE SLAB, FOUR (4) FEET ON CENTER.

WIRING DEVICES:

WALL SWITCHES TO BE QUIET TYPE, BACK-AND-SIDE WIRED, 120/277 VOLTS A.C., 20-AMPERES. DUPLEX CONVENIENCE OUTLETS SHALL BE BACK-AND-SIDE WIRED, 20-AMPERES, 125-VOLTS, 2-POLE, 3-WIRE, GROUNDING TYPE, UNLESS OTHERWISE NOTED. DEVICES WHICH ARE THE SOLE OUTLET ON A BRANCH CIRCUIT SHALL BE RATED 20A.

BACK OF HOUSE DEVICE COVERS SHALL BE STAINLESS STEEL TYPE 302 (NON-MAGNETIC). PUBLIC DEVICE/COVER COLORS SHALL BE COORDINATED WITH THE ARCHITECT BEFORE PURCHASE.

DIMMERS SHALL BE SIZED IN ACCORDANCE WITH THE LOAD AND DIMMING PROTOCOL.

PANELBOARD REQUIREMENTS:

PRODUCT DATA: INCLUDE MATERIALS, SWITCHING AND OVERCURRENT PROTECTIVE DEVICES, SPDS, ACCESSORIES, AND COMPONENTS INDICATED IN SUBMITTAL.
MANUFACTURER'S WARRANTY: REPLACE PANELBOARDS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN 18 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.
SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPLACE SPD THAT FAILS IN MATERIALS OR WORKMANSHIP WITHIN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PANELS AND TRIM: STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT. BACK BOXES: GALVANIZED STEEL. LOAD CENTER TYPE PANELS ARE NOT PERMITTED.

INCOMING MAINS SHALL BE CONVERTIBLE BETWEEN TOP AND BOTTOM. MAIN LUG INTERIORS UP TO 400 AMPERES SHALL BE FIELD CONVERTIBLE TO MAIN BREAKER.
PHASE, NEUTRAL, GROUND BUSES, AND CONDUCTOR CONNECTORS SHALL BE HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. PLATING SHALL RUN ENTIRE LENGTH OF THE BUS. BUS SHALL BE FULLY RATED THE ENTIRE LENGTH. INTERIORS SHALL BE FACTORY ASSEMBLED INTO A UNIT.

REPLACING SWITCHING AND PROTECTIVE DEVICES SHALL NOT DISTURB ADJACENT UNITS OR REQUIRE REMOVING THE MAIN BUS CONNECTORS. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BONDED TO BOX. EQUIPPED WITH FULL-CAPACITY BONDING STRAP FOR SERVICE ENTRANCE APPLICATIONS. MOUNT ELECTRICALLY ISOLATED FROM ENCLOSURE. DO NOT MOUNT NEUTRAL BUS IN GUTTER. SURGE SUPPRESSION: FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449 SPD TYPE 1.

COORDINATE LAYOUT AND INSTALLATION OF PANELBOARDS AND COMPONENTS WITH OTHER CONSTRUCTION THAT PENETRATES WALLS OR IS SUPPORTED BY THEM, INCLUDING ELECTRICAL AND OTHER TYPES OF EQUIPMENT, RACEWAYS, PIPING, ENCUMBRANCES TO WORKSPACE CLEARANCE REQUIREMENTS, AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

AFTER SUBSTANTIAL COMPLETION, BUT NOT MORE THAN 60 DAYS AFTER FINAL ACCEPTANCE, PERFORM AN INFRARED SCAN OF EACH PANELBOARD. REMOVE FRONT PANELS SO JOINTS AND CONNECTIONS ARE ACCESSIBLE TO PORTABLE SCANNER.

LOAD BALANCING: AFTER SUBSTANTIAL COMPLETION, BUT NOT MORE THAN 60 DAYS AFTER FINAL ACCEPTANCE, MEASURE LOAD BALANCING AND MAKE CIRCUIT CHANGES. PRIOR TO MAKING CIRCUIT CHANGES TO ACHIEVE LOAD BALANCING, INFORM ARCHITECT OF EFFECT ON PHASE COLOR CODING. MEASURE LOADS DURING PERIOD OF NORMAL FACILITY OPERATIONS. PERFORM CIRCUIT CHANGES TO ACHIEVE LOAD BALANCING OUTSIDE NORMAL FACILITY OPERATION SCHEDULE OR AT TIMES DIRECTED BY THE ARCHITECT. AVOID DISRUPTING SERVICES SUCH AS FAX MACHINES AND ON-LINE DATA PROCESSING, COMPUTING, TRANSMITTING, AND RECEIVING EQUIPMENT. AFTER CHANGING CIRCUITS TO ACHIEVE LOAD BALANCING, RECHECK LOADS DURING NORMAL FACILITY OPERATIONS. RECORD LOAD READINGS BEFORE AND AFTER CHANGING CIRCUITS TO ACHIEVE LOAD BALANCING.

TOLERANCE: MAXIMUM DIFFERENCE BETWEEN PHASE LOADS, WITHIN A PANELBOARD, SHALL NOT EXCEED 20 PERCENT.

CIRCUIT BREAKER REQUIREMENTS:

CIRCUIT BREAKERS SHALL BE THERMAL / MAGNETIC MOLDED CASE TYPE. QUICK-MAKE, QUICK-BREAK CONTACT MOVEMENT UNDER MANUAL AND AUTOMATIC OPERATION. TRIPPING ELEMENTS TO BE THERMALLY OPERATED INVERSE TIME LIMIT TRIPPING ELEMENTS WITH INSTANTANEOUS MAGNETIC TRIP ELEMENTS. STATIONARY AND MOVING CONTACTS TO BE NON-WELDING SILVER ALLOY. AUTOMATIC TRIPPING TO BE INDICATED BY HANDLE ASSUMING MID-POINT POSITION BETWEEN MANUAL, ON AND OFF POSITIONS. TRIP SETTING TO BE INDICATED ON BREAKER HANDLE. THE OVERLOAD ON ANY ONE POLE SHALL OPEN ALL POLES SIMULTANEOUSLY. HANDLE TIES NOT PERMITTED. BREAKER CONNECTIONS TO PANELBOARD BUSSES TO BE BOLTED, EXCEPT WHERE POSITIVE LOCKING MECHANISM REQUIRES MECHANICAL RELEASE FOR REMOVAL. PROVIDE ADJUSTABLE MAGNETIC TRIP SETTING FOR CIRCUIT-BREAKER FRAME SIZES 250 A AND LARGER. BREAKERS SERVING HVAC EQUIPMENT SHALL BE AHACR@ RATED.

SAFETY SWITCHES:

OPERATING MECHANISM TO BE QUICK-MAKE, QUICK-BREAK. ENCLOSURE SHALL BE NEMA 1 FOR INDOOR APPLICATIONS AND NEMA 3R FOR OUTDOOR APPLICATIONS UNLESS NOTED OTHERWISE. ALL SWITCHES TO BE HORSEPOWER RATED. USE TIME-DELAY FUSES. USE ONLY HEAVY-DUTY TYPE SWITCHES. PROVIDE TOGGLE SWITCH DISCONNECTS WHERE INDICATED ON PLAN.

FUSES:

PROVIDE FUSES IN ALL FUSED DISCONNECT SWITCHES SIZED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE SHOWN ON PLAN.

WIRING FOR HVAC:

BRING POWER TO ALL HVAC EQUIPMENT. INSTALL STARTERS WHERE REQUIRED. STARTERS, FIRESTATS, AND CONTROL WIRING FURNISHED UNDER MECHANICAL SECTION. (FRACTIONAL STARTERS TO BE SUPPLIED UNDER THIS SECTION).

LIGHTING:

FURNISH ALL FIXTURES, LAMPS, AND ACCESSORY EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT TO BEAR U.L. LABEL FOR SERVICE INTENDED. LED FIXTURES TO HAVE INTEGRAL DRIVERS. WHERE DIMMING DRIVERS ARE PROVIDED, COORDINATE FIXTURE DIMMING PROTOCOL WITH SWITCHES. PROVIDE FIXTURES HAVING HOUSINGS, TRIM, ETC., CONSTRUCTED TO PROPERLY FIT IN CEILINGS INSTALLED. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH CEILING INSTALLATION AND ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.

UPON COMPLETION OF INSTALLATION OF LIGHTING FIXTURES, AND AFTER BUILDING CIRCUITRY HAS BEEN ENERGIZED, APPLY ELECTRICAL ENERGY TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. WHERE POSSIBLE, CORRECT MALFUNCTIONING UNITS AT SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING. AT THE TIME OF SUBSTANTIAL COMPLETION, REPLACE LAMPS IN INTERIOR LIGHTING FIXTURES WHICH ARE OBSERVED TO BE NOTICEABLY DIMMED AFTER CONTRACTOR'S USE AND TESTING, AS JUDGED BY ARCHITECT.

MOUNTING HEIGHTS:

UNLESS OTHERWISE NOTED ON THE DRAWINGS OR REQUIRED BY THE ARCHITECT, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY. UPON APPROVAL OF THE OWNER, MOUNTING HEIGHTS MAY BE ADJUSTED. ALL HEIGHTS ARE MEASURED TO THE CENTER OF THE DEVICE.

WALL SWITCHES:	46"
RECEPTACLE OUTLET (GENERAL):	18"
LOW VOLTAGE OUTLET:	18"

THE MOUNTING HEIGHT OF DISCONNECT SWITCHES, CIRCUIT BREAKERS, MOTOR CONTROLLERS, PUSH BUTTON STATIONS, AND OTHER SIMILAR DEVICES AND EQUIPMENT WILL VARY DEPENDING UPON LOCATION AND WHETHER INDIVIDUALLY OR GROUP MOUNTED. FOR CONVENIENCE AND SAFETY, OPERATING LEVERS, HANDLES, OR BUTTONS SHALL BE MOUNTED NO MORE THAN 80 INCHES ABOVE THE FINISH FLOOR LINE. PANELBOARDS SHALL BE LOCATED SO THAT THE HIGHEST OVERCURRENT PROTECTIVE DEVICE IS A MAXIMUM OF 72" ABOVE THE FLOOR.

TESTING AND BALANCING:

AT SUCH TIMES AS THE OWNER DIRECTS, THE CONTRACTOR SHALL CONDUCT OPERATING TESTS TO DEMONSTRATE THAT THE ELECTRICAL SYSTEMS ARE INSTALLED AND WILL OPERATE PROPERLY AND IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DOCUMENTS. TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER. THE CONTRACTOR SHALL FURNISH INSTRUMENTS AND PERSONNEL REQUIRED FOR SUCH TESTS.

CONTRACTOR SHALL PERFORM TESTS IN THE PRESENCE OF THE OWNER TO SHOW THAT THE POWER AND LIGHTING LOADS ARE EQUALLY DIVIDED AMONG PHASES OF FEEDERS SERVING EACH PIECE OF EQUIPMENT AND EACH PANELBOARD.

ANY WORK AND MATERIALS TESTED AND FOUND VARYING FROM THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS SHALL BE REPLACED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.

RECORD DOCUMENTS:

MARK RECORD DRAWINGS TO INDICATE REVISIONS TO CONDUIT SIZE AND LOCATION; ACTUAL EQUIPMENT LOCATIONS; CONCEALED EQUIPMENT; DISTRIBUTION AND BRANCH ELECTRICAL CIRCUITRY; FUSE AND CIRCUIT BREAKER SIZE AND ARRANGEMENTS; SUPPORT AND HANGER DETAILS; CHANGE ORDERS; AND CONCEALED CONTROL SYSTEM DEVICES.

MARK RECORD SPECIFICATIONS TO INDICATE APPROVED SUBSTITUTIONS; CHANGE ORDERS; ACTUAL EQUIPMENT AND MATERIALS USED. PROVIDE THE OWNER WITH OPERATION AND MAINTENANCE DATA FOR ALL EQUIPMENT SUPPLIED.

WARRANTY:

ALL EQUIPMENT / SYSTEMS SHALL BE WARRANTED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF EQUIPMENT / SYSTEM ACCEPTANCE.

FIRE ALARM:

COORDINATE EXACT LOCATION OF ALL DEVICES SHOWN ON PLAN WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. ALL DEVICES SHALL BE NEW, U.L. LISTED DEVICES FROM THE SAME MANUFACTURER AS THE FIRE ALARM CONTROL PANEL. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND DOCUMENTATION ASSOCIATED WITH SUBMITTING THE REQUIRED PLANS AND SPECIFICATIONS TO THE STATE FIRE MARSHAL.

ALL SUBMITTALS SHALL BE SENT THE PROFESSIONAL OF RECORD PRIOR TO SUBMITTING TO THE STATE FIRE MARSHAL AND SHALL INCLUDE:

REFLECTED CEILING PLANS INCLUDING CEILING HEIGHTS, LIGHT FIXTURE LOCATIONS, HVAC DIFFUSER LOCATIONS, FIRE ALARM DEVICES, AND ALL ARCHITECTURAL FEATURES (JOISTS, BEAMS, COFFERS, FURRS, ETC.) EXTENDING MORE THAN 4 INCHES FROM THE CEILING PLAN. PROVIDE CANDELA RATINGS FOR ALL STROBES AND IDENTIFY ALL ROOMS, SPACES, AND AREAS ON PLAN.

PROVIDE BRIEF DESCRIPTION OF THE SEQUENCE OF OPERATIONS.
INCLUDE ALL FIRE ALARM SYSTEM SEQUENCES THAT INTERACT WITH OTHER BUILDING SYSTEMS (SPRINKLER, FIRE SUPPRESSION, ELEVATOR RECALL, ETC.).
ALL COMPONENTS (INITIATING DEVICES, NOTIFICATION APPLIANCES, TRANSMISSION, ANNUNCIATION, ETC.) ARE CLEARLY IDENTIFIED AND LOCATED TO SCALE.

DENOTE ALL DETECTOR AND STROBE SPACINGS. INDICATE SPECIAL INITIATION DEVICES (DELAYED LOCKS, SPRINKLER FLOW SWITCHES, ELEVATOR RECALL SMOKE DETECTORS, ETC.) DIFFERENTIATE BETWEEN ALL EXISTING AND PROPOSED COMPONENTS.

IF SYSTEM OR PORTION IS EXISTING, INDICATE DATE OF EXISTING SYSTEM INSTALLATION, OR DATE OF PRIOR SUBSTANTIAL SYSTEM RENOVATION. (ALL NEW WORK IS REVIEWED PURSUANT TO THE CURRENTLY ADOPTED EDITION OF NFPA 72. REPLACEMENTS "IN-KIND" ARE PURSUANT TO APPLICABLE NFPA 72 EDITION AT TIME OF CONSTRUCTION. IN ACCORDANCE WITH LA RS 55:V:103.)
DENOTE ALL SYSTEM ZONES (E.G. SIGNAL RECEIVING ZONES, SIGNAL SENDING ZONES, FIRE WALL COMPARTMENTS, ZONES PER FLOOR, ETC.).

RISER DIAGRAM TO INDICATE ALL ZONES AND INCLUDE ALL DEVICES AND COMPONENTS WITHIN EACH ZONE.

PROVIDE SYMBOL SCHEDULE (SYMBOLS TO BE CONSISTENT WITH SHOP DRAWINGS).
IDENTIFY DEVICES BY GENERIC NAMES (NOT MANUFACTURER'S SPECIAL NAMES, UNLESS SPECIFIED).

DESIGN MUST COMPLY WITH CODE. PROPER COVERAGE SHALL BE PROVIDED FROM STROBES, HEAT DETECTORS, OR SMOKE DETECTORS (20 TO 25% OF REQUIRED DEVICES MUST NOT BE MISSING FROM SHOP DRAWINGS).

DESIGNATE TYPE(S) OF WIRE UTILIZED, AND COLOR OF INSULATION OR OTHER MARKING METHOD, ENABLING SFM INSPECTOR TO VERIFY COMPATIBILITY BETWEEN SHOP DRAWINGS AND FIELD INSTALLATION.
DESIG

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2021 IECC with LA Amendments	Provision	Proposed Design Value	Code Prescriptive Value	Supporting Documentation
C103.2	Information on Construction Documents	Requirement will be met.	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	See lighting fixture schedule and control narrative.
C405.2.1	Occupant Sensor Controls	Requirement will be met.	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	See for lighting plans.
C405.2.1.1	Occupant Sensor Control Function	Requirement will be met.	Occupant sensor controls for warehouses, open plan office areas, and corridors shall comply with C405.2.1.2, C405.2.1.3, C405.2.1.4 respectively. Occupant sensors in other spaces shall:	See lighting control general notes and lighting control schedule.
C405.2.1.2	Occupant Sensor Control Function in Warehouse Storage Areas	Requirement does not apply.	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	N/A
C405.2.1.3	Occupant Sensor Control Function in Open Plan Office Areas	Requirement does not apply.	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	N/A
C405.2.2	Time-Switch Controls	Requirement will be met.	Each area of the building that is not provided with occupant sensor controls complying with Section C405.2.1.1 shall be provided with time-switch controls complying with Section C405.2.2.1.	See lighting control general notes and lighting control schedule.
C405.2.3.1	Light-Reduction Control Function	Requirement does not apply. Exception 3.2 of C405.2.3.	Spaces required to have light-reduction controls shall have a manual control that allows the occupant to reduce the connected lighting load min 50% uniformly with an intermediate step in addition to full on or off, or with continuous dimming control, using one of the following: 1. Continuous dimming of all luminaires from full output to less than 20% of full power. 2. Switching all luminaires to a reduced output of min 30% and max 70% of full power. 3. Switching alternate luminaires or alternate rows of luminaires to achieve a reduced output of min 30 % and max 70% of full power.	N/A
C405.2.4	Daylight-Responsive Controls	Requirement will be met.	Daylight-responsive controls complying with Section C405.2.4.1 shall control the general lighting within daylight zones in: 1. Spaces with a total of more than 150 watts of general lighting within primary sidelit daylight zones complying with Section C405.2.4.2. 2. Spaces with a total of more than 300 watts of general lighting within sidelit daylight zones complying with Section C405.2.4.2. 3. Spaces with a total of more than 150 watts of general lighting within toplit daylight zones complying with Section C405.2.4.3.	See lighting control general notes and lighting control schedule.
C405.2.4.1	Daylight-Responsive Control Function	Requirement will be met.	Where required, daylight-responsive controls shall be provided within each space for control of lights in that space shall comply with Section C405.2.4.3 and shall be controlled independently of lights in sidelit daylight zones in accordance with Section C405.2.4.2.	See lighting control general notes and lighting control schedule.
C405.2.4.2	Sidelit Daylight Zone	Requirement will be met.	The sidelit daylight zone is the floor area adjacent to vertical fenestration that complies with Section C405.2.4.2.	See lighting control general notes and lighting control schedule.
C405.2.4.3	Toplit Daylight Zone	Requirement does not apply.	The toplit daylight zone is the floor area underneath a roof fenestration assembly that complies with Section C405.2.4.3.	N/A
C405.2.5	Specific Application Controls	Requirement will be met.	Specific application controls shall be provided for the following: 1. The following lighting shall be controlled by an occupant sensor complying with Section C405.2.1.1 or a time-switch control complying with Section C405.2.2.1. In addition, a manual control shall be provided to control such lighting separately from the general lighting in the space.	See lighting control general notes and lighting control schedule.
C405.2.7	Exterior Lighting Controls	Requirement does not apply.	Exterior lighting systems shall be provided with controls that comply with Sections C405.2.7.1 through C405.2.7.4. Exceptions: 1. Lighting for covered vehicle entrances and exits from buildings and parking structures where required for eye adaptation. 2. Lighting controlled from within dwelling units.	N/A
C408 and C408.1	Maintenance Information and System Commissioning	N/A	This section covers the provision of maintenance information and the commissioning of, and the functional testing requirements for building systems.	N/A
C408.1.1	Building Operations and Maintenance Information	Provided by the contractor	The building operations and maintenance documents shall be provided to the owner and shall consist of manufacturers' information, specifications and recommendations; programming procedures and data points; narratives; and other means of illustrating to the owner how the building, equipment and systems are intended to be installed, maintained and operated. Required regular maintenance actions for equipment and systems shall be clearly stated on a readily visible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.	N/A
C408.3	Functional Testing of Lighting Controls	Provided by the contractor	Automatic lighting controls required by this code shall comply with this section.	N/A
C408.3.1	Functional Testing	Provided by the contractor	Prior to passing final inspection, an approved third party agency shall provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions. Functional testing shall be in accordance with Sections C408.3.1.1 through C408.3.1.3 for the applicable control type.	N/A

LIGHTING POWER DENSITY SCHEDULE

SPACE NAME	SPACE NUMBER	IECC SPACE TYPE	ALLOWED (W/SF)	AREA (SF)	ALLOWED (W)	PROPOSED LIGHTING LOAD (W)	DIFFERENCE (W)
STAIR	100	Stairway	0.49	261.7	128.0	180.1	-52.1
FACULTY WORKROOM	102	Lounge/Recreation	0.59	830.0	488.5	426.1	62.4
WATER HEATER	102A	Electrical/Mechanical	0.43	61.6	26.4	27.0	-0.6
MECHANICAL	102B	Electrical/Mechanical	0.43	32.7	14.0	27.0	-13.0
ELECTRICAL	102C	Electrical/Mechanical	0.43	12.5	5.4	27.0	-21.7
ELEC.	102D	Electrical/Mechanical	0.43	42.1	18.1	29.0	-11.0
PHONE ROOM	102E	Lounge/Recreation	0.59	10.8	6.3	11.0	-4.7
PHONE ROOM	102F	Lounge/Recreation	0.59	10.8	6.3	11.0	-4.7
PANTRY	102G	Lounge/Recreation	0.59	14.5	8.5	31.0	-22.5
OFFICE	103	Office - Enclosed	0.74	70.8	52.3	39.0	13.2
OFFICE	103A	Office - Enclosed	0.74	95.3	70.3	78.0	-7.7
OFFICE	103B	Office - Enclosed	0.74	62.7	46.3	39.0	7.3
OFFICE	103C	Office - Enclosed	0.74	82.7	61.1	39.0	22.1
RESTROOM CORRIDOR	104	Corridor/Transition	0.41	100.6	41.1	69.0	-27.9
ADA RESTROOM	104A	Restrooms	0.63	47.7	30.0	32.0	-2.0
ADA RESTROOM	104B	Restrooms	0.63	47.7	30.0	32.0	-2.0
RESTROOM	104C	Restrooms	0.63	33.1	20.8	32.0	-11.2
RESOURCE	105	Classroom/Lecture/Training	0.71	139.0	98.4	78.0	20.4
CLASSROOM	106	Classroom/Lecture/Training	0.71	405.3	287.1	234.1	53.0
BOILER	107	Electrical/Mechanical	0.43	81.5	35.0	31.0	4.0
CLASSROOM	108	Classroom/Lecture/Training	0.71	353.2	250.2	234.1	16.1
OFFICE	109	Office - Enclosed	0.74	111.4	82.3	78.0	4.2
OFFICE	109A	Office - Enclosed	0.74	133.7	98.7	78.0	20.7
OFFICE	109B	Office - Enclosed	0.74	68.1	50.3	39.0	11.3
OFFICE	109C	Office - Enclosed	0.74	65.3	48.2	39.0	9.2
OFFICE	109D	Office - Enclosed	0.74	66.7	49.2	39.0	10.2
MECHANICAL	109F	Electrical/Mechanical	0.43	20.7	8.9	27.0	-18.1
CORRIDOR	110	Corridor/Transition	0.41	689.6	282.1	230.1	52.0
VESTIBULE	110A	Corridor/Transition	0.41	31.6	12.9	23.0	-10.1
VESTIBULE	110B	Corridor/Transition	0.41	32.5	13.3	23.0	-9.7
VESTIBULE	119	Corridor/Transition	0.41	118.2	48.4	97.0	-48.7
STAIR	120	Stairway	0.49	226.6	110.8	10.0	100.8
RESTROOM	123	Electrical/Mechanical	0.43	32.3	13.9	21.0	-7.1
MECHANICAL	136	Electrical/Mechanical	0.43	14.1	6.1	0.0	6.1
STAIR	140	Stairway	0.49	247.9	121.2	180.1	-58.9
STAIR	200	Stairway	0.49	307.2	150.2	13.0	137.2
CLASSROOM	201	Classroom/Lecture/Training	0.71	516.6	365.9	528.2	-162.2
READING ROOM	202	Library - Reading Area	0.96	950.1	910.0	196.1	714.0
SMALL GROUP	203	Library - Reading Area	0.96	720.7	690.3	704.2	-13.9
OFFICE	207	Office - Enclosed	0.74	134.7	99.4	74.8	24.6
OFFICE	208	Office - Enclosed	0.74	74.7	55.2	58.4	-3.2
ADMISSIONS	209	Office - Enclosed	0.74	74.1	54.7	58.4	-3.7
OFFICE	210	Office - Enclosed	0.74	74.0	54.6	58.4	-3.8
OFFICE	211	Office - Enclosed	0.74	257.5	190.1	350.5	-160.4
OFFICE	212	Office - Enclosed	0.74	110.6	81.7	116.8	-35.2
CORRIDOR	213	Corridor/Transition	0.41	458.4	187.5	364.1	-176.6
OFFICE	215	Office - Enclosed	0.74	105.2	77.6	175.3	-97.6
OFFICE	215	Office - Enclosed	0.74	125.4	92.6	175.3	-82.7
OFFICE	217	Office - Enclosed	0.74	84.0	62.0	58.4	3.6
OFFICE	219	Office - Enclosed	0.74	57.7	42.6	58.4	-15.8
STAIR	220	Stairway	0.49	327.8	160.2	8.0	152.2
OFFICE	221	Office - Enclosed	0.74	86.2	63.6	116.8	-53.2
TOILET ROOM GIRLS	222	Restrooms	0.63	102.6	64.5	78.0	-13.5
STORAGE	235	Active Storage	0.38	38.6	14.6	31.0	-16.4
STAIR	240	Stairway	0.49	323.7	158.2	13.0	145.2
STAIR	300	Stairway	0.49	202.2	98.9	54.0	44.8
CLASSROOM	301	Classroom/Lecture/Training	0.71	533.0	377.6	312.1	65.5
CLASSROOM	302	Classroom/Lecture/Training	0.71	611.7	433.3	312.1	121.2
CLASSROOM	303	Classroom/Lecture/Training	0.71	487.7	345.4	312.1	33.4
CLASSROOM	304	Classroom/Lecture/Training	0.71	551.8	390.9	312.1	78.8
RESOURCE CLASSROOM	305A	Classroom/Lecture/Training	0.71	370.6	262.5	209.7	52.8
RESOURCE CLASSROOM	305B	Classroom/Lecture/Training	0.71	173.3	122.8	149.6	-26.9
CLASSROOM	306	Classroom/Lecture/Training	0.71	468.2	331.6	312.1	19.5
CLASSROOM	307	Classroom/Lecture/Training	0.71	512.3	362.9	312.1	50.8
STAIR	309	Stairway	0.49	156.2	76.4	39.0	37.3
HALLWAY	310	Corridor/Transition	0.41	734.6	300.5	335.1	-34.6
ELEVATOR VESTIBULE	332	Corridor/Transition	0.41	11.9	4.9	10.0	-5.1
TOILET ROOM BOYS	333	Restrooms	0.63	71.4	44.9	68.0	-23.1
SERVER	334	Electrical/Mechanical	0.43	37.5	16.1	23.0	-6.9
TOTALS (POSITIVE DIFFERENCE INDICATES WATTAGE BETTER THAN LIGHTING CODE)				14507.2	9414.7	8588.9	825.8

LIGHTING FIXTURE SCHEDULE

LUMINAIRE ID	MANUFACTURER	MODEL NO.	MOUNTING	FIXTURE LUMENS	DESCRIPTION	APPARENT LOAD	VOLTAGE	DIMMING	COLOR TEMPERATURE (CCT)	REMARKS
EM1	SURE-LITES	SEL25 SERIES	SURFACE		25' SPACING EMERGENCY FIXTURE	0 VA	120 V	N/A	0 K	NEW EM LIGHTING FIXTURE TO REPLACE EXISTING.
EM2	SURE-LITES	SEL25 SERIES	SURFACE		25' SPACING EMERGENCY FIXTURE	0 VA	120 V	N/A	0 K	NEW EM LIGHTING FIXTURE LOCATION.
L1	ORACLE	14-FPL-BL-LED-3000L-DIM10-MVOLT-35K-85	SURFACE	3544 LUMEN LED	1'x4' LED BACKLIT PANEL	31 VA	120 V	0-10V	3500 K	
L2	ORACLE	24-FPL-BL-LED-4000L-DIM10-MVOLT-35K-85	SURFACE	4814 LUMEN LED	2'x4' LED BACKLIT PANEL	39 VA	120 V	0-10V	3500 K	
L3	ORACLE	22-FPL-BL-LED-4000L-DIM10-MVOLT-35K-85	SURFACE	4536 LUMEN LED	2'x2' LED BACKLIT PANEL	37 VA	120 V	0-10V	3500 K	
L4	ORACLE	OLS-DI-2-S-4-D1000L-HP-U1000L-HP-DIM10-MVOLT-35K-85-WH	PENDANT	8000 LUMEN LED	4' DIRECT/ INDIRECT LINEAR LED PENDANT	58 VA	120 V	0-10V	3500 K	
L8	ORACLE	OLS-DI-LED-2-S-8-D750L-HP-U750L-HP-BW-DIM10-MVOLT-35K-85-WH	PENDANT	12000 LUMEN LED	8' DIRECT/ INDIRECT LINEAR LED PENDANT	88 VA	120 V	0-10V	3500 K	
L8A	ORACLE	OLS-DI-LED-2-S-8-D750L-HP-U750L-HP-BW-DIMTR-MVOLT-35K-85-WH	PENDANT	12000 LUMEN LED	8' DIRECT/ INDIRECT LINEAR LED PENDANT	88 VA	120 V	TRIAC	3500 K	
L10	DELRAY	DOS CURVE MODULES	SUSPENDED	VARIES	LED DIRECT/INDIRECT CUSTOM FIXTURE	98 VA	120 V	TRIAC	3000 K	COORDINATE EXACT MODEL NUMBER WITH ARCHITECT. EXISTING WIRING TO BE REUSED. PROVIDE TRIAC DIMMING DRIVER.
L11	ORACLE	HH4-LED-800L-DIM10-MVOLT-WD-35K-90-HH4-4501-SHZ-WH	RECESSED	800 LUMEN LED	4" RECESSED DOWNLIGHT	10 VA	120 V	0-10V	3500 K	
L12	FUSION LIGHTING	TRACK: FG-CM-SM , FIXTURE:FG-T2-3	SURFACE	2400 LUMEN LED	4' TRACK LIGHT LIGHTING W/ 100W EXTERNAL DRIVER	60 VA	120 V	N/A	3000 K	PROVIDE LINE VOLTAGE DIMMABLE DRIVERS AS REQUIRED FOR CONNECTED TRACK AS SHOWN ON PLAN. PROVIDE ACCESSORIES AS REQUIRED. COORDINATE EXACT LOCATION OF DRIVER WITH ARCHITECT PRIOR TO ROUGH-IN.
L13	VISUAL COMFORT	700FMFINRZ-LED830	SURFACE	1230 LUMEN LED	12" DECORATIVE FLUSH MOUNT	29 VA	120 V	ELV	3000 K	
L14	ORACLE	RL1192-2000L-DIMTR-120-30K-90-XX	SURFACE	1798 LUMEN LED	11" LED SLIM SURFACE MOUNT	23 VA	120 V	TRIAC	3000 K	COORDINATE FINISH WITH ARCHITECT.
L15	ALORA MOOD	HARMONY PD 406419-BGGO	PENDANT	3000 LUMEN LED	DECORATIVE PENDANT	8 VA	120 V	N/A	3000 K	PROVIDE (4) 60W LED EQUIVALENT BULBS WITH E26 BASE.
L16	CEDAR & MOSS	PARKER - MAPLE	SURFACE	450 LUMEN LED	DECORATIVE SCONCE	5 VA	120 V	TRIAC	2700 K	
L17	ALORA MOOD	FIORE WV407306-BGGO	SURFACE	550 LUMEN LED	DECORATIVE SCONCE	5 VA	120 V	N/A	2700 K	PROVIDE (1) 60W LED EQUIVALENT BULB WITH E12 BASE.
L18	ORACLE	RL792-1000L-DIMTR-120-30K-90-XX	SURFACE	765 LUMEN LED	7" LED SLIM SURFACE MOUNT	11 VA	120 V	TRIAC	3000 K	COORDINATE FINISH WITH ARCHITECT.
L19	ORACLE	LED-HU-41-240L-30K-90-XX	RECESSED	240 LUMEN LED	RECESSED PUCK LIGHT	3 VA	120 V	TRIAC	3000 K	EXISTING WIRING TO BE REUSED. PROVIDE TRIAC DIMMING DRIVER. COORDINATE FINISH WITH ARCHITECT.
L20	FUSION LIGHTING	TRACK: FG-CM-SM	TRACK		26' TRACK LIGHT LIGHTING W/ (1) 200W EXTERNAL DRIVER PER TRACK. CAT# FG-200W-48V	167 VA	120 V	N/A	3000 K	PROVIDE LINE VOLTAGE DIMMABLE DRIVERS AS REQUIRED FOR CONNECTED TRACK AS SHOWN ON PLAN. PROVIDE ACCESSORIES AS REQUIRED. COORDINATE EXACT LOCATION OF DRIVER WITH ARCHITECT PRIOR TO ROUGH-IN.
L20A	FUSION LIGHTING	FG-T3-A-NFL-30K-90-WH-BK-FG-T-ACC-L1-2-48V	TRACK	1200 LUMEN LED	GROOVE SERIES CYLINDER TRACKHEAD	0 VA	120 V	N/A	3000 K	
L20B	FUSION LIGHTING	FG-T4-2-17D-44D-30K-90-WH-BK-48V	TRACK	1000 LUMEN LED	BEAM ADJUSTABLE CYLINDER TRACK HEAD	0 VA	120 V	N/A	3000 K	
L22	ORACLE	OVLS-LED-18-1300L-DIMTR-120-3000K-90-XX	SURFACE	1300 LUMEN LED	18" LINEAR VANITY FIXTURE	21 VA	120 V	TRIAC	3000 K	COORDINATE FINISH WITH ARCHITECT.
L23	ORACLE	OVLS-LED-48-3000L-DIMTR-120-3000K-90-XX	SURFACE	3000 LUMEN LED	4' LINEAR VANITY FIXTURE	38 VA	120 V	TRIAC	3000 K	COORDINATE FINISH WITH ARCHITECT.
L24	ORACLE	2-OC1-LED-4000L-DIM10-MVOLT-30K-85-XX	SUSPENDED	3596 LUMEN LED	2' SUSPENDED LINEAR DIRECT LED	27 VA	120 V	0-10V	3000 K	
L25	ORACLE	4-OW1IP-LED-4000L-DIM10-MVOLT-30K-85-WD	SURFACE	3921 LUMEN LED	4' VAPORTIGHT LINEAR STRIP LIGHT	29 VA	120 V	N/A	3000 K	
X1	SURE-LITES	EU-S-70-R	SEE PLANS	LED	EDGE-LIT EXIT SIGN	0 VA	120 V	N/A	2700 K	SEE PLANS FOR CHEVRON TYPES.

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E002

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FUTURE SCOPE

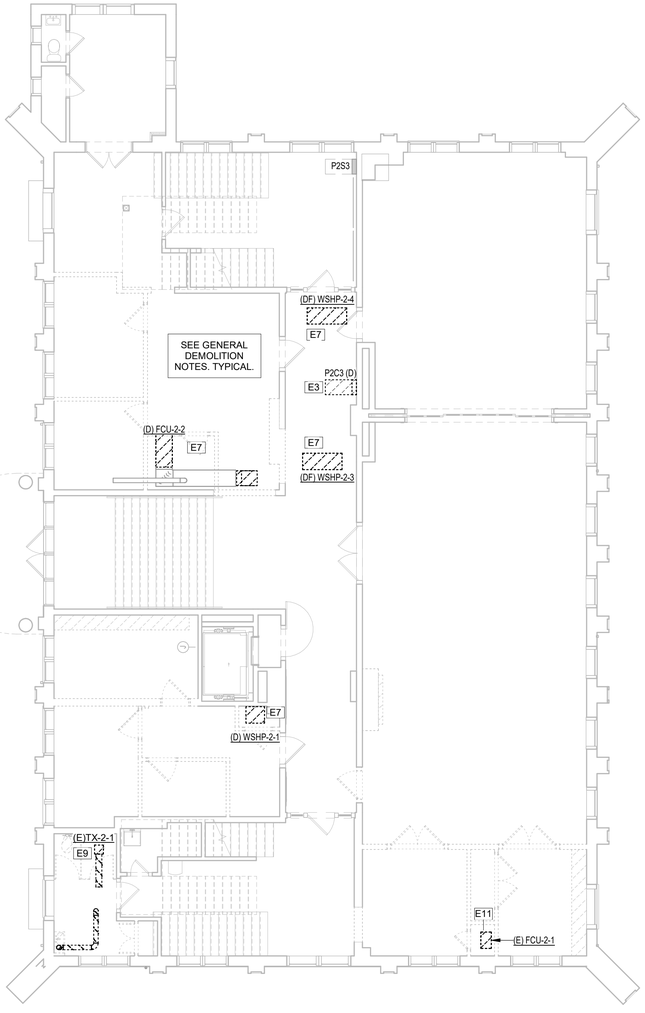
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GENERAL DEMOLITION NOTES

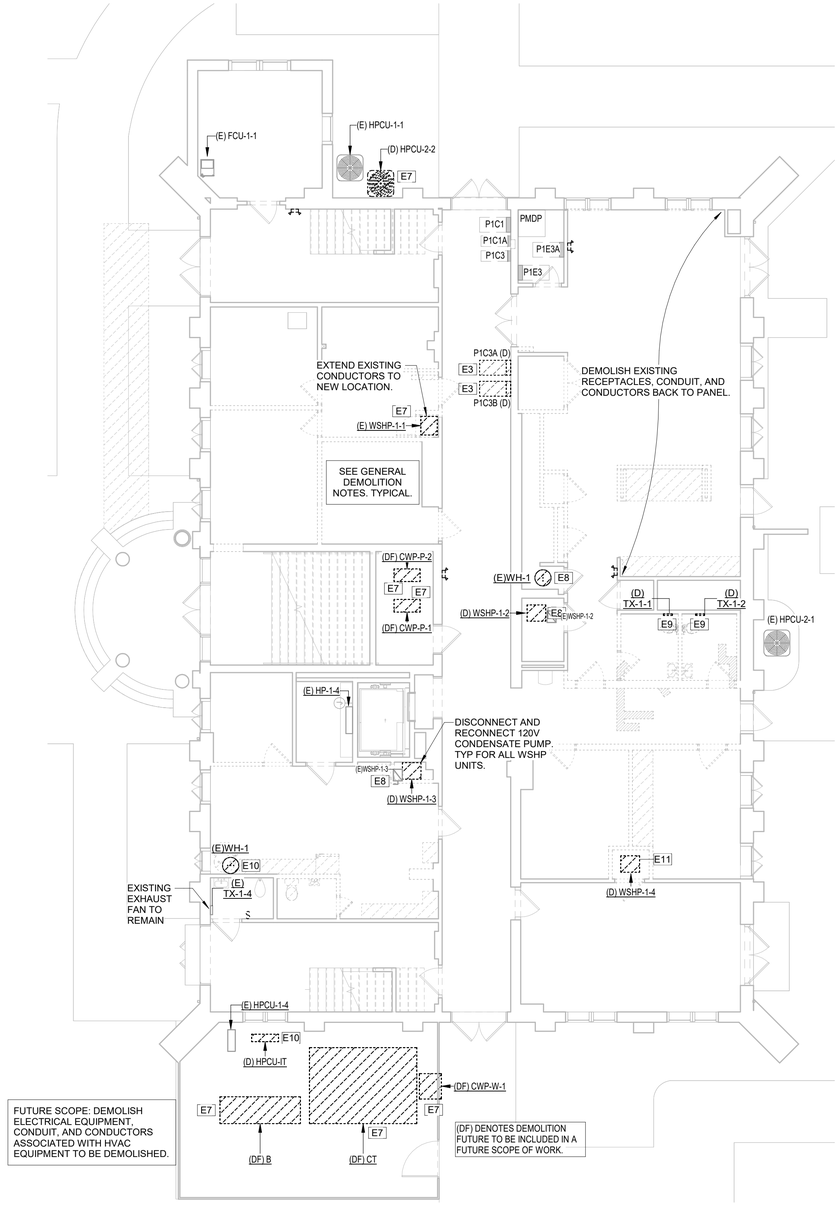
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5. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
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7. CONTRACTOR SHALL PROVIDE MEANS OF AUTOMATIC SMOKE DETECTION VIA INSTALLED SMOKE DETECTORS CONNECTED TO THE FACILITY FIRE ALARM SYSTEM FOR COVERAGE DURING NON-OCCUPIED PERIODS WITHIN THE CONSTRUCTION AREA.
8. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
9. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
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12. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
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15. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
16. PROVIDE SUPPORTS EVERY 5' FOR ANY EXISTING CONDUIT, CABLE, ETC. WITHIN THE PROJECT AREA THAT IS NOT CURRENTLY SUPPORTED EVERY 5'.

ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E3	DEMOLISH EXISTING FEDERAL PACIFIC PANELBOARD AND PREPARE BRANCH CIRCUITS AND FEEDERS FOR NEW PANELBOARD.
E7	EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. DISCONNECT EXISTING EQUIPMENT AND PROVIDE NEW FUSIBLE DISCONNECT SWITCH PER MECHANICAL-ELECTRICAL SCHEDULE.
E8	EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT TO EXISTING DISCONNECT SWITCH. PROVIDE NEW FUSES PER MANUFACTURER.
E9	EXISTING EXHAUST FAN TO BE REPLACED. DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT TO NEW DISCONNECT SWITCH PER MECHANICAL-ELECTRICAL SCHEDULE.
E10	EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DEMOLISH DISCONNECT, CONDUIT, AND CONDUCTORS BACK TO SOURCE.
E11	EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED. DISCONNECT EXISTING EQUIPMENT AND PROVIDE NEW FUSIBLE DISCONNECT SWITCH PER MECHANICAL-ELECTRICAL SCHEDULE. EXTEND FEEDERS AS REQUIRED.



2 SECOND FLOOR PLAN - DEMOLITION
E101 1/8" = 1'-0"



1 FIRST FLOOR PLAN - DEMOLITION
E101 1/8" = 1'-0"

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ELECTRICAL - FIRST AND SECOND FLOOR PLAN - DEMOLITION

E101

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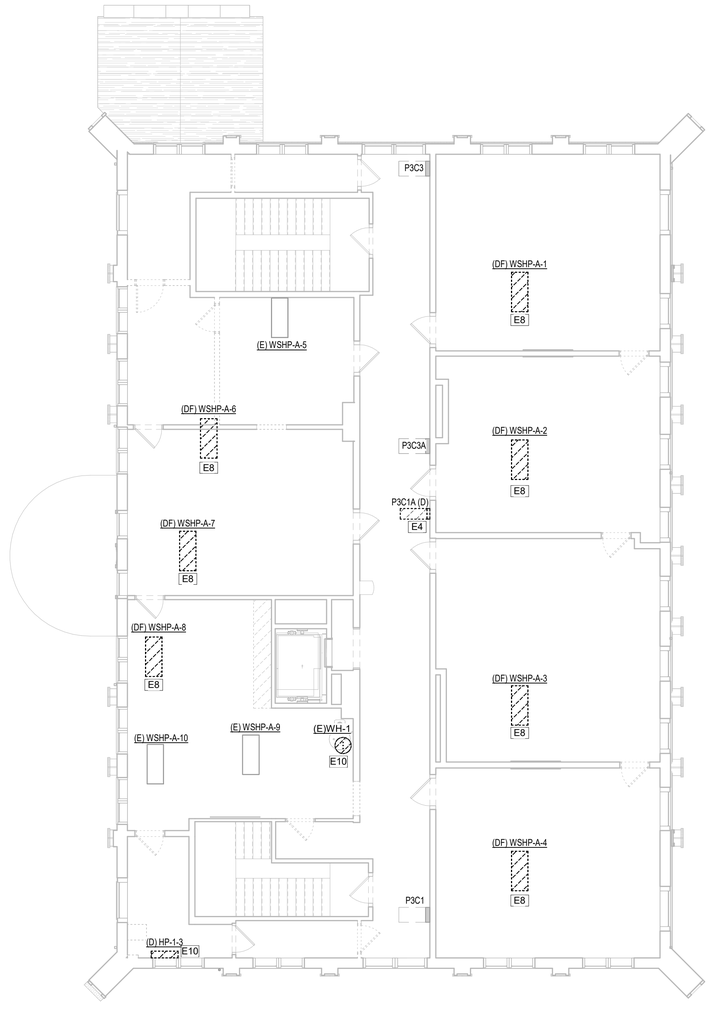
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FUTURE SCOPE

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1 THIRD FLOOR PLAN - DEMOLITION
E102 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

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ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E4	DEMOLISH EXISTING FUSE PANEL AND PREPARE BRANCH CIRCUITS AND FEEDERS FOR NEW PANELBOARD. VERIFY RATING OF PANEL AND REPORT BACK TO ENGINEER.
E8	EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT TO EXISTING DISCONNECT SWITCH. PROVIDE NEW FUSES PER MANUFACTURER.
E10	EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DEMOLISH DISCONNECT, CONDUIT, AND CONDUCTORS BACK TO SOURCE.

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ELECTRICAL - THIRD FLOOR PLAN - DEMOLITION

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E102

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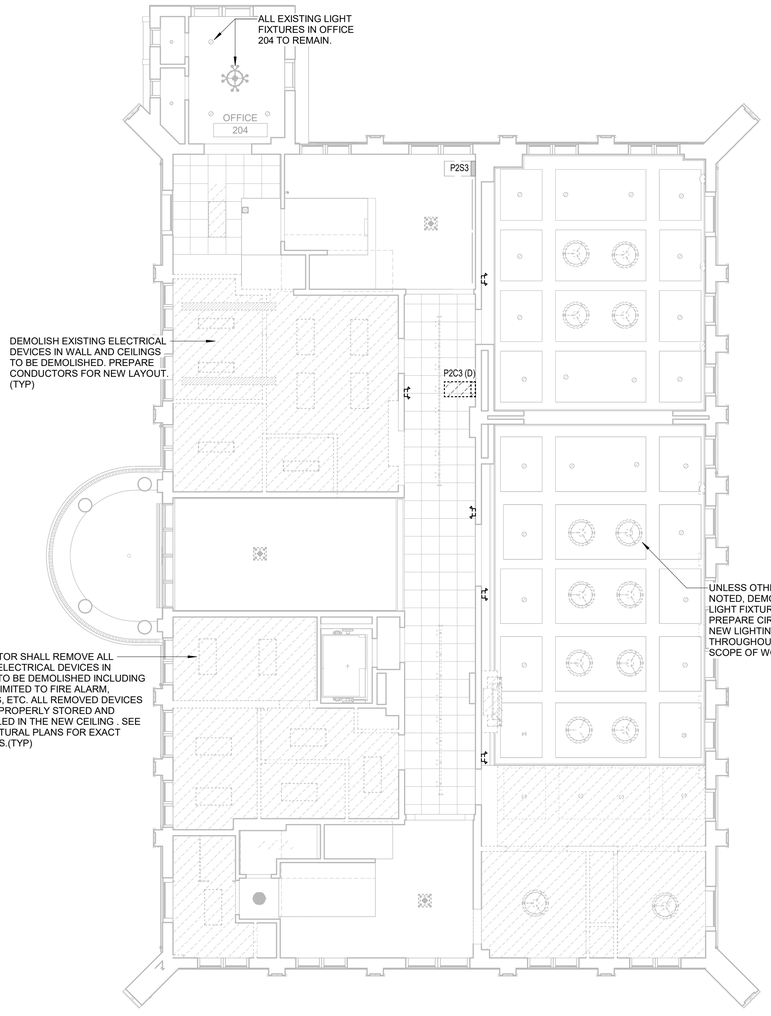
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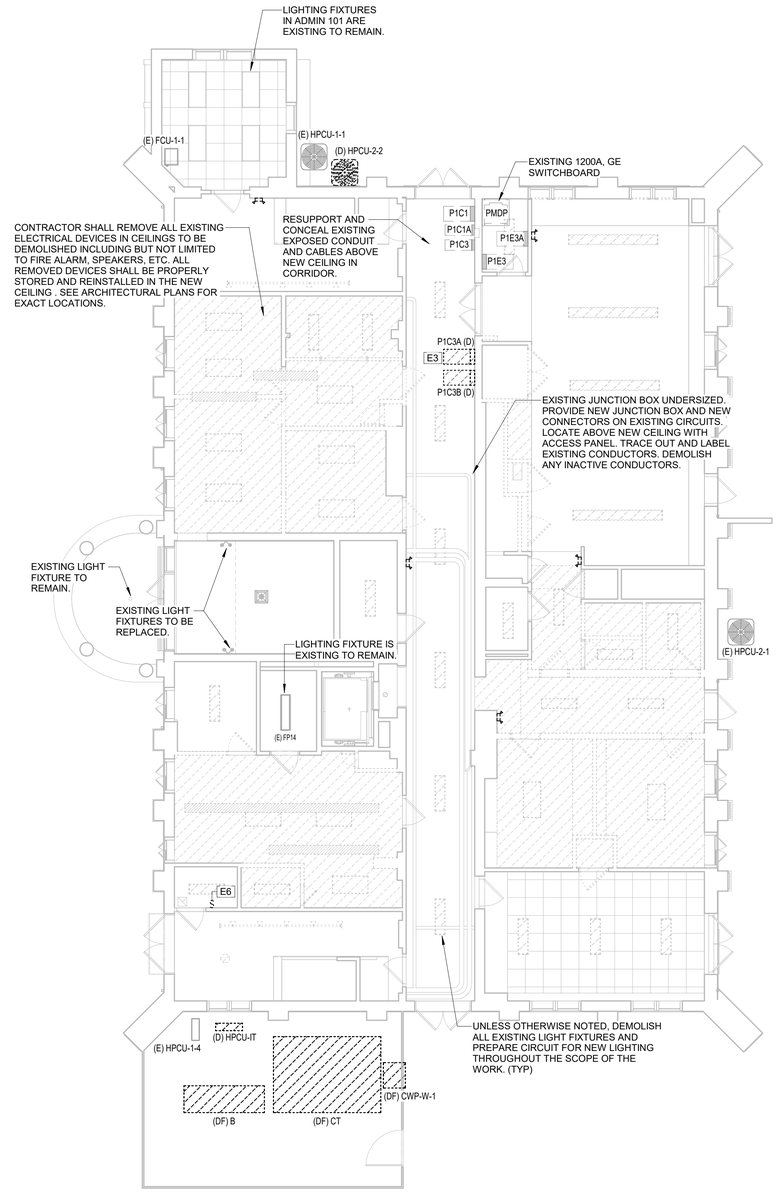
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FUTURE SCOPE

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2 SECOND FLOOR RCP - DEMOLITION
E131 1/8" = 1'-0"



1 FIRST FLOOR RCP - DEMOLITION
E131 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
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15. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
16. PROVIDE SUPPORTS EVERY 5' FOR ANY EXISTING CONDUIT, CABLE, ETC. WITHIN THE PROJECT AREA THAT IS NOT CURRENTLY SUPPORTED EVERY 5'.

ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E3	DEMOLISH EXISTING FEDERAL PACIFIC PANELBOARD AND PREPARE BRANCH CIRCUITS AND FEEDERS FOR NEW PANELBOARD.
E6	DEMOLISH EXISTING SWITCH AND PREPARE CONDUCTORS FOR REPLACEMENT OCCUPANCY SENSOR.

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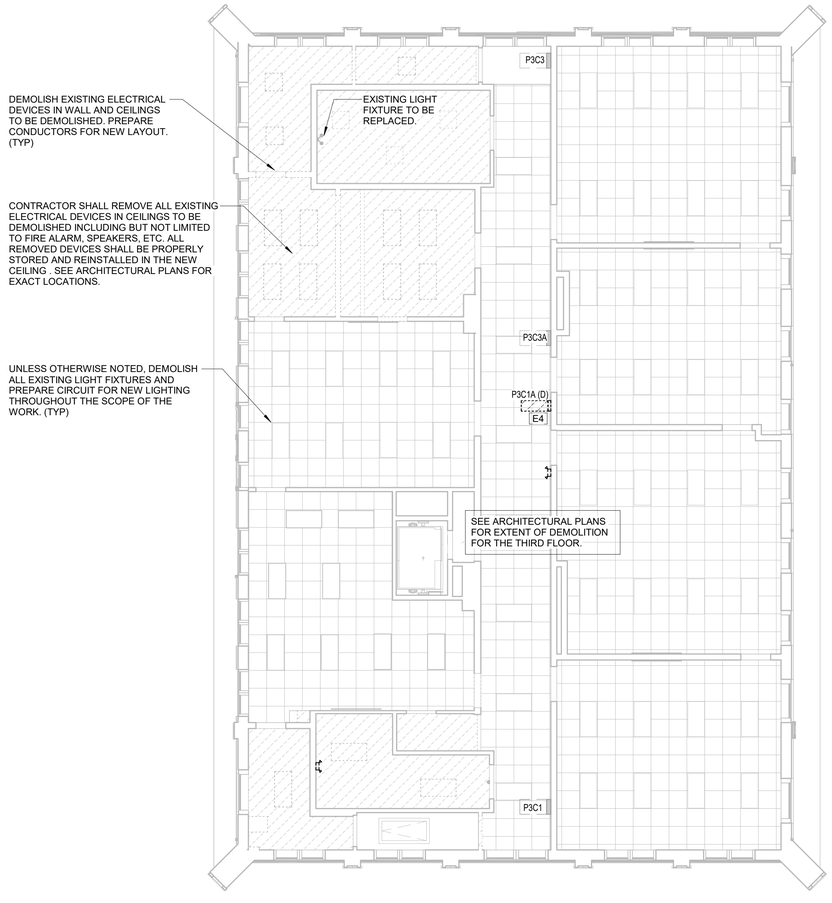
ELECTRICAL - FIRST AND SECOND FLOOR RCP - DEMOLITION

E131

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FUTURE SCOPE

ALL SCOPE INDICATED TO BE (F) FUTURE OR (DF) DEMOLISH FUTURE SHALL BE CONSIDERED FOR INFORMATION PURPOSES ONLY, NOT TO BE USED FOR THIS PERMIT OR CONSTRUCTION.



1 E132 THIRD FLOOR RCP - DEMOLITION
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL TAKE PRECEDENCE.
2. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT, AND WIRE IN WALLS AND CEILINGS TO BE DEMOLISHED SHALL BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE ARCHITECTURAL PHASING AND DEMOLITION PLAN AS WELL AS THE PROJECT AREA PRIOR TO BID TO DETERMINE THE REQUIRED DEMOLITION SCOPE.
3. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION.
4. ALL CONDUITS SERVING OTHER SPACES OR FLOORS THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION. DISRUPTION TO ANY OTHER SPACES SHALL NOT BE ACCEPTABLE WITHOUT PRIOR OWNER APPROVAL. THE CONTRACTOR SHALL ENSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED WITH BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
6. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR PHASING WORK AS REQUIRED BY THE ARCHITECT; REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICE (POWER, LIGHTING, FIRE ALARM, ETC) SHALL BE PROVIDED WHERE NEW WORK AFFECTS AREAS THAT ARE REQUIRED TO REMAIN ACTIVE. IF FIRE ALARM SYSTEM CANNOT BE MAINTAINED IN THE CONSTRUCTION AREA, A FIRE WATCH SHALL BE PROVIDED.
7. CONTRACTOR SHALL PROVIDE MEANS OF AUTOMATIC SMOKE DETECTION VIA INSTALLED SMOKE DETECTORS CONNECTED TO THE FACILITY FIRE ALARM SYSTEM FOR COVERAGE DURING NON-OCCUPIED PERIODS WITHIN THE CONSTRUCTION AREA.
8. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
9. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
10. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
11. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
12. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
13. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
14. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
15. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
16. PROVIDE SUPPORTS EVERY 5' FOR ANY EXISTING CONDUIT, CABLE, ETC. WITHIN THE PROJECT AREA THAT IS NOT CURRENTLY SUPPORTED EVERY 5'.

ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E4	DEMOLISH EXISTING FUSE PANEL AND PREPARE BRANCH CIRCUITS AND FEEDERS FOR NEW PANELBOARD. VERIFY RATING OF PANEL AND REPORT BACK TO ENGINEER.

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ELECTRICAL - THIRD FLOOR REFLECTED CEILING PLAN - DEMOLITION

E132

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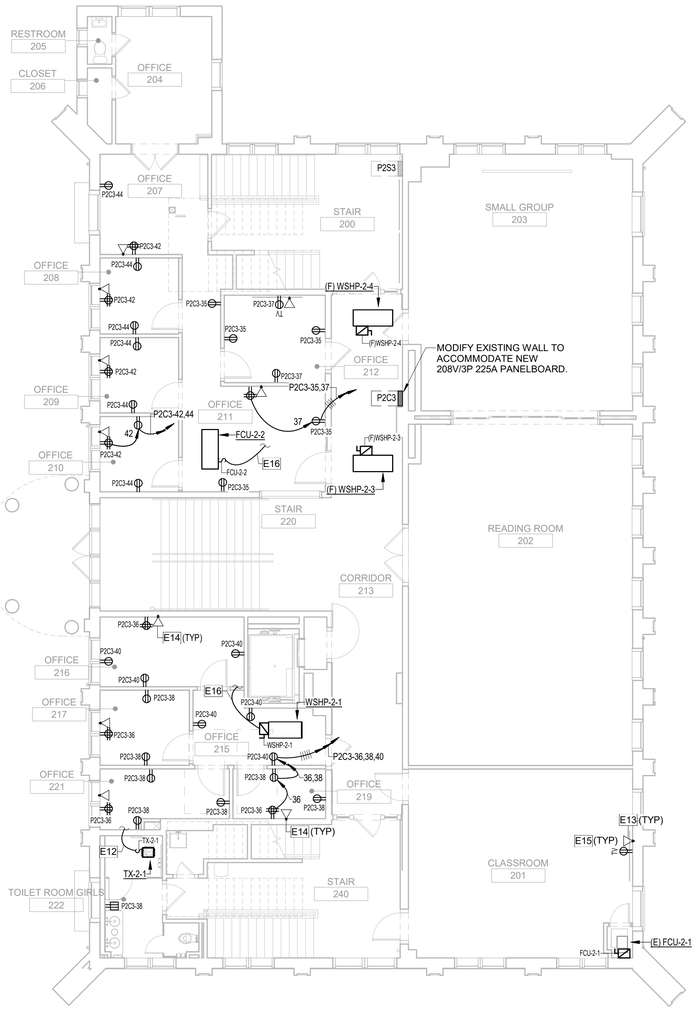
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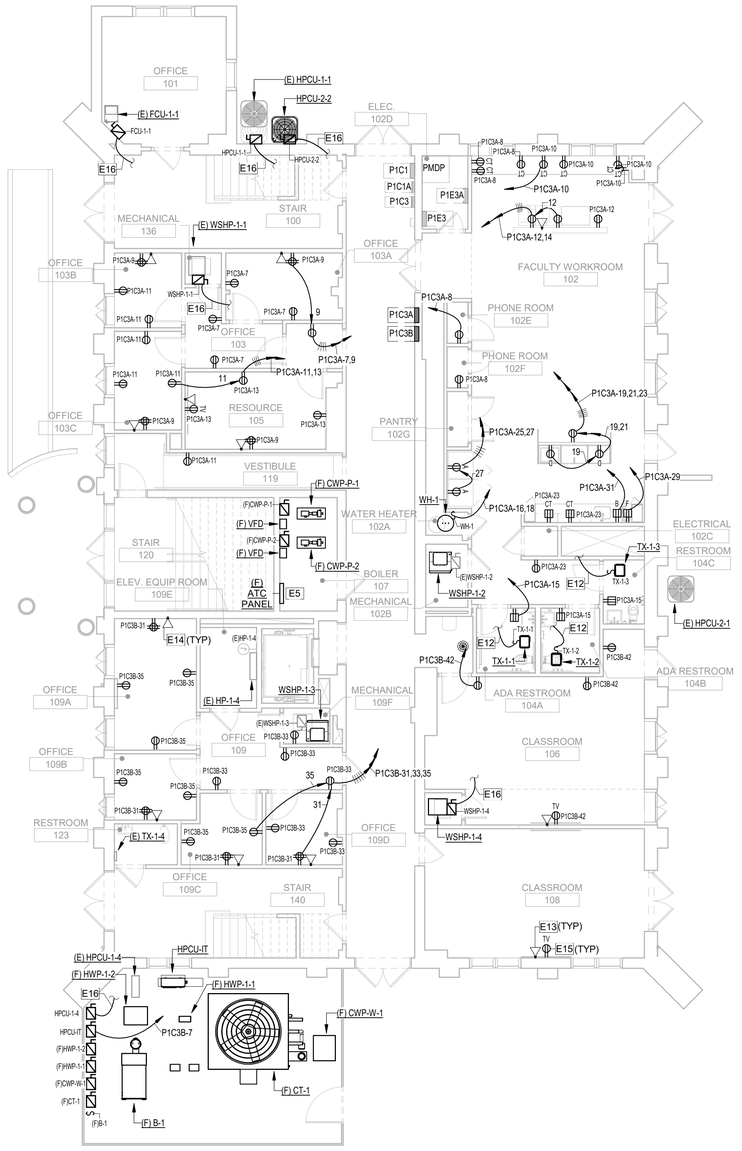
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FUTURE SCOPE

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2 POWER & SYSTEMS - SECOND FLOOR
E201 1/8" = 1'-0"



1 POWER & SYSTEMS - FIRST FLOOR
E201 1/8" = 1'-0"

POWER GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR EXPOSED RECEPTACLE LOCATIONS - ROUTE EXPOSED CONDUIT (EMT) IN ALL FINISHED SPACES WHERE CONDUCTORS ARE NOT CONCEALED BEHIND WALLS OR CEILINGS.
2. PROVIDE GFCI PROTECTION FOR 120V RECEPTACLES IN ALL KITCHEN, BATHROOM, LAUNDRY, AND OUTDOOR SPACES.
3. REFER TO MECHANICAL-ELECTRICAL EQUIPMENT SCHEDULE FOR POWER REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
4. PROVIDE IN-USE HEAVY DUTY WEATHERPROOF COVER FOR ALL DEVICES DESIGNATED WITH A WP. TAYMAC CAT#MX3200 AND MX6200.
5. PROVIDE TAMPER RESISTANT RECEPTACLES FOR ALL 15- AND 20-AMP RECEPTACLES IN EDUCATION FACILITIES AS DESCRIBED IN NEC 518.2 TO INCLUDE PLACES OF AWAITING TRANSPORTATION, GYMNASIUMS AND AUDITORIUMS.
6. EXTEND EXISTING CIRCUITRY FOR EQUIPMENT TO REMAIN IN SPACE TO NEW PANEL LOCATION.
7. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
8. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE OR BRANCH CIRCUIT SCHEDULE ON SHEET E000.

SYSTEM GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS.
2. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT.
   A. ACCESSIBLE CEILINGS - PROVIDE CONDUIT IN WALL TO CEILING AND PROVIDE J-HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
   B. CONCEALED, INACCESSIBLE, OR EXPOSED CEILINGS, - PROVIDE EMT CONDUIT WITH LONG RADIUS ELBOWS FOR ALL COMMUNICATIONS CABLES.

KITCHEN EQUIPMENT SCHEDULE

GENERAL NOTES:

1. MAKE ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT PER MANUFACTURER.
2. COORDINATE EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES PRIOR TO ROUGH-IN AND MAINTAIN NEC CLEARANCES AT ALL TIMES. NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO ROUGH-IN.
3. ALL ELECTRICAL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM THE EQUIPMENT BEING SERVED.

TYPE	CIRCUITING INFORMATION					
	PANEL	CIRCUIT NUMBER	VOLTAGE	PHASE	LOAD	FLA (AMPS)
A - REFRIGERATOR	P1C3A	25	120 V	1	1800 VA	15
A - REFRIGERATOR	P1C3A	27	120 V	1	1800 VA	15
B - DISHWASHER	P1C3A	31	120 V	1	1440 VA	12
D - MICROWAVE	P1C3A	19	120 V	1	1040 VA	8.7
D - MICROWAVE	P1C3A	21	120 V	1	1040 VA	8.7
F - COFFEE BREWER	P1C3A	29	120 V	1	1600 VA	15

ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E5	PROVIDE 120V CONTROL POWER FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
E12	TIE INTO LIGHTING CIRCUIT AND OCCUPANCY SENSOR.
E13	PROVIDE RETROFIT, RECESSED TV BOX FOR RECEPTACLE AND DATA. ROUTE 1" CONDUIT WITH PULLSTRING BACK TO DATA CLOSET. SEE ARCHITECTURAL PLANS FOR EXACT ELEVATION. ARLINGTON CAT# TVBS505 OR EQUIVALENT.
E14	PROVIDE 4" SQUARE JUNCTION BOX WITH SINGLE GANG MUDRING. ROUTE 1-1/4" CONDUIT WITH PULLSTRING BACK TO IT RACK LOCATED ON THE THIRD FLOOR. COORDINATE EXACT LOCATION WITH OWNER.
E15	CONNECT TV RECEPTACLES TO EXISTING CIRCUIT IN CLASSROOM.
E16	ROUTE NEW CONDUIT AND CONDUCTORS TO SERVE NEW EQUIPMENT AS SCHEDULED. CONNECT TO EXISTING CIRCUIT AND ROUTE BACK TO EXISTING PANEL LOCATION.

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POWER & SYSTEMS - FIRST AND SECOND FLOOR PLAN

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FUTURE SCOPE

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POWER GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR EXPOSED RECEPTACLE LOCATIONS - ROUTE EXPOSED CONDUIT (EMT) IN ALL FINISHED SPACES WHERE CONDUCTORS ARE NOT CONCEALED BEHIND WALLS OR CEILINGS.
2. PROVIDE GFCI PROTECTION FOR 120V RECEPTACLES IN ALL KITCHEN, BATHROOM, LAUNDRY, AND OUTDOOR SPACES.
3. REFER TO MECHANICAL-ELECTRICAL EQUIPMENT SCHEDULE FOR POWER REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
4. PROVIDE IN-USE HEAVY DUTY WEATHERPROOF COVER FOR ALL DEVICES DESIGNATED WITH A WP. TAYMAC CAT#MX3200 AND MX6200.
5. PROVIDE TAMPER RESISTANT RECEPTACLES FOR ALL 15- AND 20-AMP RECEPTACLES IN EDUCATION FACILITIES AS DESCRIBED IN NEC 518.2 TO INCLUDE PLACES OF AWAITING TRANSPORTATION, GYMNASIUMS AND AUDITORIUMS.
6. EXTEND EXISTING CIRCUITRY FOR EQUIPMENT TO REMAIN IN SPACE TO NEW PANEL LOCATION.
7. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
8. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE OR BRANCH CIRCUIT SCHEDULE ON SHEET E000.

SYSTEM GENERAL NOTES

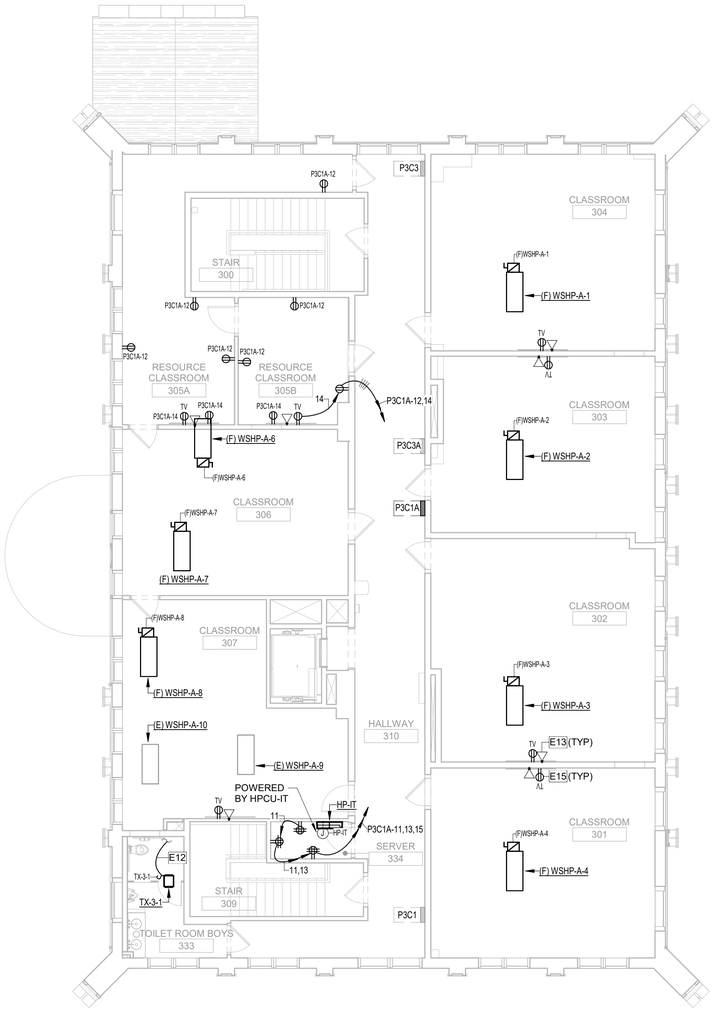
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2. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT.
   - A. ACCESSIBLE CEILINGS - PROVIDE CONDUIT IN WALL TO CEILING AND PROVIDE J-HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
   - B. CONCEALED, INACCESSIBLE, OR EXPOSED CEILINGS, - PROVIDE EMT CONDUIT WITH LONG RADIUS ELBOWS FOR ALL COMMUNICATIONS CABLES.

ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E12	TIE INTO LIGHTING CIRCUIT AND OCCUPANCY SENSOR.
E13	PROVIDE RETROFIT, RECESSED TV BOX FOR RECEPTACLE AND DATA. ROUTE 1" CONDUIT WITH PULLSTRING BACK TO DATA CLOSET. SEE ARCHITECTURAL PLANS FOR EXACT ELEVATION. ARLINGTON CAT# TVBS505 OR EQUIVALENT.
E15	CONNECT TV RECEPTACLES TO EXISTING CIRCUIT IN CLASSROOM.



2 POWER & SYSTEMS - ATTIC
E202 1/8" = 1'-0"



1 POWER & SYSTEMS - THIRD FLOOR
E202 1/8" = 1'-0"

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POWER & SYSTEMS - THIRD FLOOR AND ATTIC PLAN

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ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E1	PROVIDE NEW EMERGENCY LIGHTING FIXTURE TO REPLACE EXISTING.
E2	PROVIDE NEW EMERGENECY LIGHTING FIXTURE AND ROUTE 2#12, #12GND, 1/2" CONDUIT TO NEAREST LIGHTING JUNCTION BOX THAT SERVES SPACE. WIRE HOT CONDUCTOR ONLY. DO NOT SWITCH.
E17	UPLIGHT AND DOWNLIGHT IN PENDANTS IN OFFICE'S 211 AND 212 SHALL BE SEPARATELY SWITCHED.

FUTURE SCOPE

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LIGHTING GENERAL NOTES

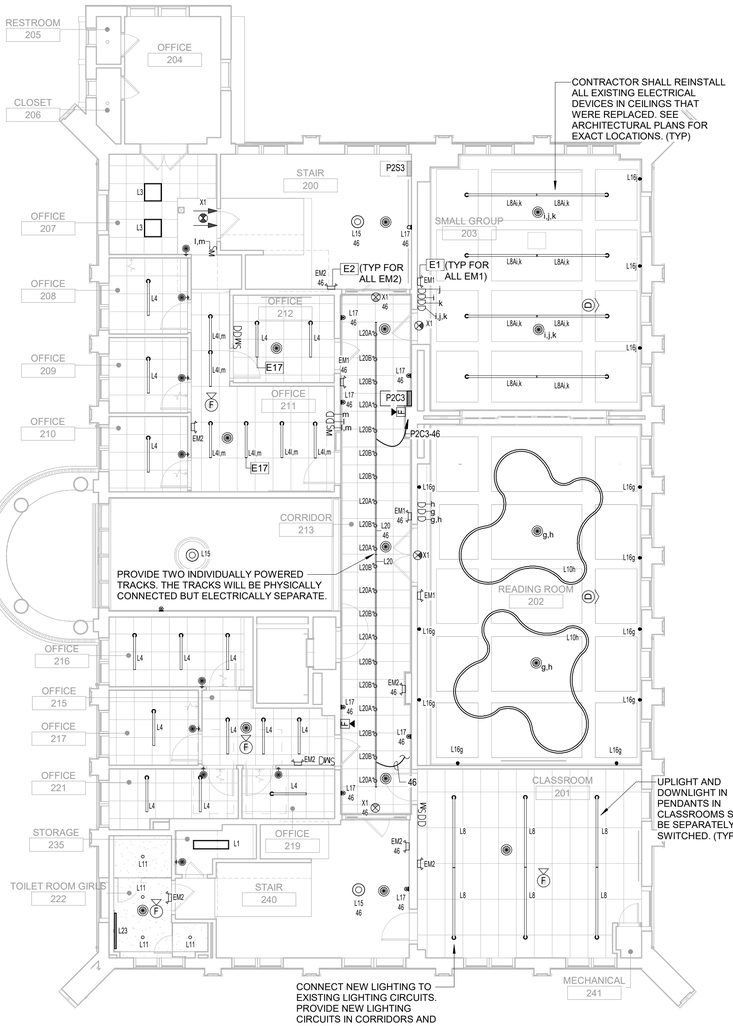
1. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT. ALL HOMERUNS SHALL IN CONDUIT.
2. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
3. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF PENDANT AND WALL MOUNTED LIGHTING FIXTURES.
4. COORDINATE AIMING OF ALL ADJUSTABLE FIXTURES WITH ARCHITECT.
5. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
6. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN. SEE BRANCH CIRCUIT SCHEDULE ON SHEET E000 FOR CONDUCTOR SIZES.
7. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
8. CLASS 2 DIMMING WIRE INSULATION CONDUCTORS INCLUDING 0-10V CONTROL WIRING SHALL BE PURPLE AND PINK PER NEC. GRAY CONDUCTORS SHALL NOT BE USED FOR CLASS 2 WIRING.
9. RECESSED LUMINAIRES INSTALLED IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES.

LIGHTING CONTROL GENERAL NOTES

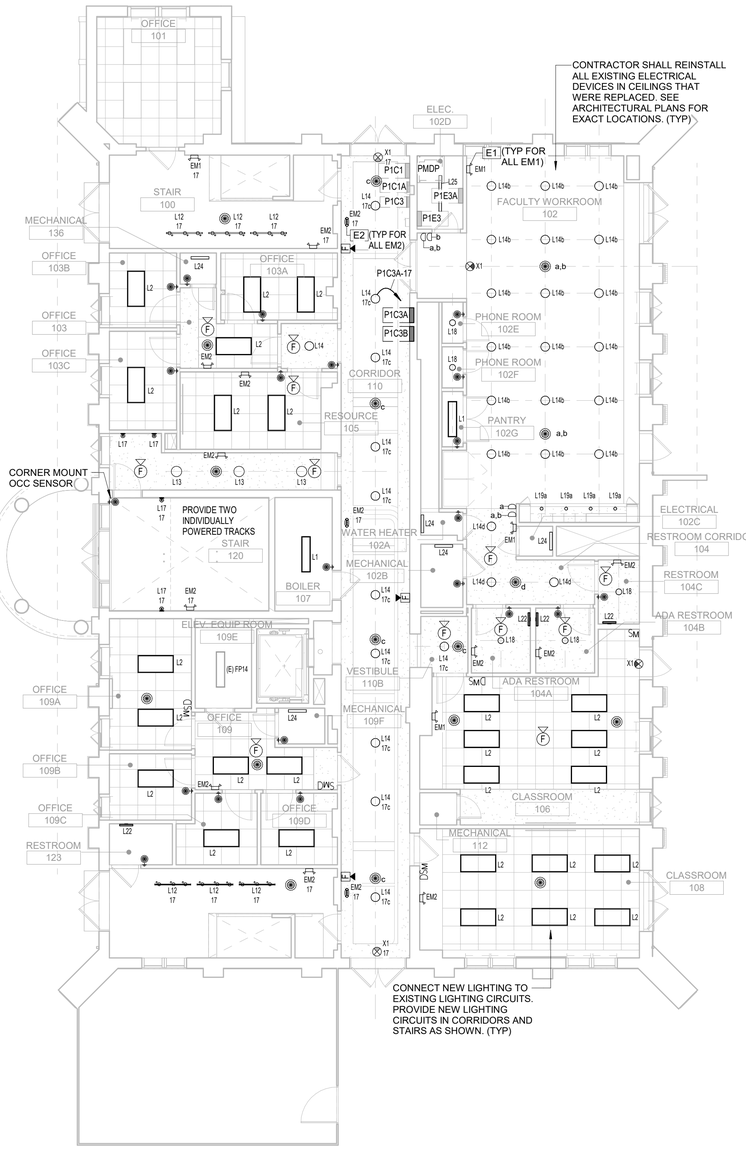
1. OCCUPANCY SENSOR CONTROLS SHALL COMPLY WITH THE FOLLOWING:
   - A. THEY SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
   - B. THEY SHALL BE MANUAL ON.
   - C. THEY SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF LIGHTS.
2. TIME-SWITCH CONTROLS SHALL COMPLY WITH THE FOLLOWING:
   - A. AUTOMATICALLY TURN OFF LIGHTS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.
   - B. HAVE A MINIMUM 7-DAY CLOCK.
   - C. BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.
   - D. INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR NOT FEWER THAN 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.
   - E. HAVE PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR NOT FEWER THAN 10 HOURS, IF POWER IS INTERRUPTED.
   - F. INCLUDE AN OVERRIDE SWITCH THAT COMPLIES WITH THE FOLLOWING:
     - a. THE OVERRIDE SWITCH SHALL BE A MANUAL CONTROL.
     - b. THE OVERRIDE SWITCH, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR NOT MORE THAN 2 HOURS.
     - c. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE LIGHTING FOR AN AREA NOT LARGER THAN 5,000 SQUARE FEET.

ABBR. LIGHTING FIXTURE SCHEDULE

LUMINAIRE ID	MANUFACTURER	MOUNTING	DESCRIPTION
(E) FP14	ORACLE	SURFACE	1'x4' LED FLAT PANEL
EM1	SURE-LITES	SURFACE	25' SPACING EMERGENCY FIXTURE
EM2	SURE-LITES	SURFACE	25' SPACING EMERGENCY FIXTURE
L1	ORACLE	SURFACE	1'x4' LED BACKLIT PANEL
L2	ORACLE	SURFACE	2'x4' LED BACKLIT PANEL
L3	ORACLE	SURFACE	2'x2' LED BACKLIT PANEL
L4	ORACLE	PENDANT	4' DIRECT/ INDIRECT LINEAR LED PENDANT
L8	ORACLE	PENDANT	8' DIRECT/ INDIRECT LINEAR LED PENDANT
L8A	ORACLE	PENDANT	8' DIRECT/ INDIRECT LINEAR LED PENDANT
L10	DELRAY	SUSPENDED	LED DIRECT/INDIRECT CUSTOM FIXTURE
L11	ORACLE	RECESSED	4" RECESSED DOWNLIGHT
L12	FUSION LIGHTING	SURFACE	4' TRACK LIGHT LIGHTING W/ 100W EXTERNAL DRIVER
L13	VISUAL COMFORT	SURFACE	12" DECORATIVE FLUSH MOUNT
L14	ORACLE	SURFACE	11" LED SLIM SURFACE MOUNT
L15	ALORA MOOD	PENDANT	DECORATIVE PENDANT
L16	CEDAR & MOSS	SURFACE	DECORATIVE SCONCE
L17	ALORA MOOD	SURFACE	DECORATIVE SCONCE
L18	ORACLE	SURFACE	7" LED SLIM SURFACE MOUNT
L19	ORACLE	RECESSED	RECESSED PUCK LIGHT
L20	FUSION LIGHTING	TRACK	26' TRACK LIGHT LIGHTING W/ (1) 200W EXTERNAL DRIVER PER TRACK. CAT# FG-200W-48V
L20A	FUSION LIGHTING	TRACK	GROOVE SERIES CYLINDER TRACKHEAD
L20B	FUSION LIGHTING	TRACK	BEAM ADJUSTABLE CYLINDER TRACK HEAD
L22	ORACLE	SURFACE	18" LINEAR VANITY FIXTURE
L23	ORACLE	SURFACE	4' LINEAR VANITY FIXTURE
L24	ORACLE	SUSPENDED	2' SUSPENDED LINEAR DIRECT LED
L25	ORACLE	SURFACE	4' VAPORTIGHT LINEAR STRIP LIGHT
X1	SURE-LITES	SEE PLANS	EDGE-LIT EXIT SIGN



2 SECOND FLOOR - RCP
E301 1/8" = 1'-0"



1 FIRST FLOOR - RCP
E301 1/8" = 1'-0"

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PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

STUDIO WEST PROJECT NO. | 22003

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STATE OF LOUISIANA
STEVEN PINTO
License No. 38319
PROFESSIONAL ENGINEER

ISSUE DATE | 1 AUGUST 2025

CONSTRUCTION DOCUMENTS

REVISIONS

LIGHTING & SYSTEMS - FIRST AND SECOND FLOOR REFLECTED CEILING PLAN

SYNERGY
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ELECTRICAL KEYNOTES

NUMBER	DESCRIPTION
E1	PROVIDE NEW EMERGENCY LIGHTING FIXTURE TO REPLACE EXISTING.
E2	PROVIDE NEW EMERGENECY LIGHTING FIXTURE AND ROUTE 2#12, #12GND, 1/2" CONDUIT TO NEAREST LIGHTING JUNCTION BOX THAT SERVES SPACE. WIRE HOT CONDUCTOR ONLY. DO NOT SWITCH.

FUTURE SCOPE

ALL SCOPE INDICATED TO BE (F) FUTURE OR (DF) DEMOLISH FUTURE SHALL BE CONSIDERED FOR INFORMATION PURPOSES ONLY, NOT TO BE USED FOR THIS PERMIT OR CONSTRUCTION.



1 THIRD FLOOR - RCP
E302 1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT. ALL HOMERUNS SHALL IN CONDUIT.
2. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
3. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF PENDANT AND WALL MOUNTED LIGHTING FIXTURES.
4. COORDINATE AIMING OF ALL ADJUSTABLE FIXTURES WITH ARCHITECT.
5. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
6. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN. SEE BRANCH CIRCUIT SCHEDULE ON SHEET E000 FOR CONDUCTOR SIZES.
7. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
8. CLASS 2 DIMMING WIRE INSULATION CONDUCTORS INCLUDING 0-10V CONTROL WIRING SHALL BE PURPLE AND PINK PER NEC. GRAY CONDUCTORS SHALL NOT BE USED FOR CLASS 2 WIRING.
9. RECESSED LUMINAIRES INSTALLED IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES.

LIGHTING CONTROL GENERAL NOTES

1. OCCUPANCY SENSOR CONTROLS SHALL COMPLY WITH THE FOLLOWING:
   - A. THEY SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
   - B. THEY SHALL BE MANUAL ON.
   - C. THEY SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF LIGHTS.
2. TIME-SWITCH CONTROLS SHALL COMPLY WITH THE FOLLOWING:
   - A. AUTOMATICALLY TURN OFF LIGHTS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.
   - B. HAVE A MINIMUM 7-DAY CLOCK.
   - C. BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.
   - D. INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR NOT FEWER THAN 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.
   - E. HAVE PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR NOT FEWER THAN 10 HOURS, IF POWER IS INTERRUPTED.
   - F. INCLUDE AN OVERRIDE SWITCH THAT COMPLIES WITH THE FOLLOWING:
     - a. THE OVERRIDE SWITCH SHALL BE A MANUAL CONTROL.
     - b. THE OVERRIDE SWITCH, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR NOT MORE THAN 2 HOURS.
     - c. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE LIGHTING FOR AN AREA NOT LARGER THAN 5,000 SQUARE FEET.

ABBR. LIGHTING FIXTURE SCHEDULE

LUMINAIRE ID	MANUFACTURER	MOUNTING	DESCRIPTION
(E) FP14	ORACLE	SURFACE	1'x4' LED FLAT PANEL
EM1	SURE-LITES	SURFACE	25' SPACING EMERGENCY FIXTURE
EM2	SURE-LITES	SURFACE	25' SPACING EMERGENCY FIXTURE
L1	ORACLE	SURFACE	1'x4' LED BACKLIT PANEL
L2	ORACLE	SURFACE	2'x4' LED BACKLIT PANEL
L3	ORACLE	SURFACE	2'x2' LED BACKLIT PANEL
L4	ORACLE	PENDANT	4' DIRECT/ INDIRECT LINEAR LED PENDANT
L8	ORACLE	PENDANT	8' DIRECT/ INDIRECT LINEAR LED PENDANT
L8A	ORACLE	PENDANT	8' DIRECT/ INDIRECT LINEAR LED PENDANT
L10	DELRAY	SUSPENDED	LED DIRECT/INDIRECT CUSTOM FIXTURE
L11	ORACLE	RECESSED	4" RECESSED DOWNLIGHT
L12	FUSION LIGHTING	SURFACE	4' TRACK LIGHT LIGHTING W/ 100W EXTERNAL DRIVER
L13	VISUAL COMFORT	SURFACE	12" DECORATIVE FLUSH MOUNT
L14	ORACLE	SURFACE	11" LED SLIM SURFACE MOUNT
L15	ALORA MOOD	PENDANT	DECORATIVE PENDANT
L16	CEDAR & MOSS	SURFACE	DECORATIVE SCONCE
L17	ALORA MOOD	SURFACE	DECORATIVE SCONCE
L18	ORACLE	SURFACE	7" LED SLIM SURFACE MOUNT
L19	ORACLE	RECESSED	RECESSED PUCK LIGHT
L20	FUSION LIGHTING	TRACK	26' TRACK LIGHT LIGHTING W/ (1) 200W EXTERNAL DRIVER PER TRACK. CAT# FG-200W-48V
L20A	FUSION LIGHTING	TRACK	GROOVE SERIES CYLINDER TRACKHEAD
L20B	FUSION LIGHTING	TRACK	BEAM ADJUSTABLE CYLINDER TRACK HEAD
L22	ORACLE	SURFACE	18" LINEAR VANITY FIXTURE
L23	ORACLE	SURFACE	4' LINEAR VANITY FIXTURE
L24	ORACLE	SUSPENDED	2' SUSPENDED LINEAR DIRECT LED
L25	ORACLE	SURFACE	4' VAPORTIGHT LINEAR STRIP LIGHT
X1	SURE-LITES	SEE PLANS	EDGE-LIT EXIT SIGN

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FIRESTOP METHOD

NOTE:

PENETRATIONS OF FIRE RATED ASSEMBLIES MUST BE PROTECTED BY U.L. SYSTEM WL 1001, 1002 OR 1003. SUCH PENETRATIONS ARE TYPICALLY FOUND AT:

A) OCCUPANCY SEPARATIONS

B) EXTERIOR WALLS

C) AREA SEPARATIONS

D) JANITOR CLOSETS

E) SHAFT ENCLOSURES

F) CORRIDORS

G) STAIR ENCLOSURES

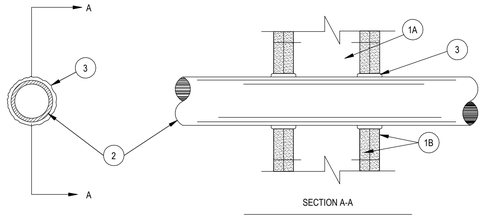
H) EXIT PASSAGEWAYS

I) "TYPE OF CONSTUCTION SEPARATION"

J) BOILER, CENTRAL HEATING PLANT, OR HOT WATER SUPPLY ROOM ENCLOSURES.

THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ)

SYSTEMS NO. WL1001-CAULK ONLY
(FORMERLY SYSTEM NO. 147A)
F RATINGS--1,2,3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS--0,1,2,3 AND 4 HR (SEE ITEM 3)



SECTION A-A

1. WALL ASSEMBLY - THE 1,2,3 OR 4 HR. FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 HR. FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOMINAL 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. O.C.

   B. WALLBOARD, GYPSUM* -NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE U.L. FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 13-1/2 IN.

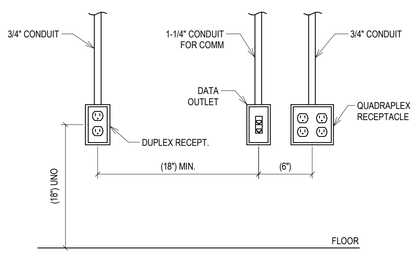
2. PIPE OR CONDUIT-NOM 12 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM.6 IN. DIA. (OR SMALLER) STEEL CONDUIT, NOM. 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIA. (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX. F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIA. MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIAL* - CAULK** - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIA. BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF WALL ASSEMBLY IN WHICH IT IS INSTALLED AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRE STOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

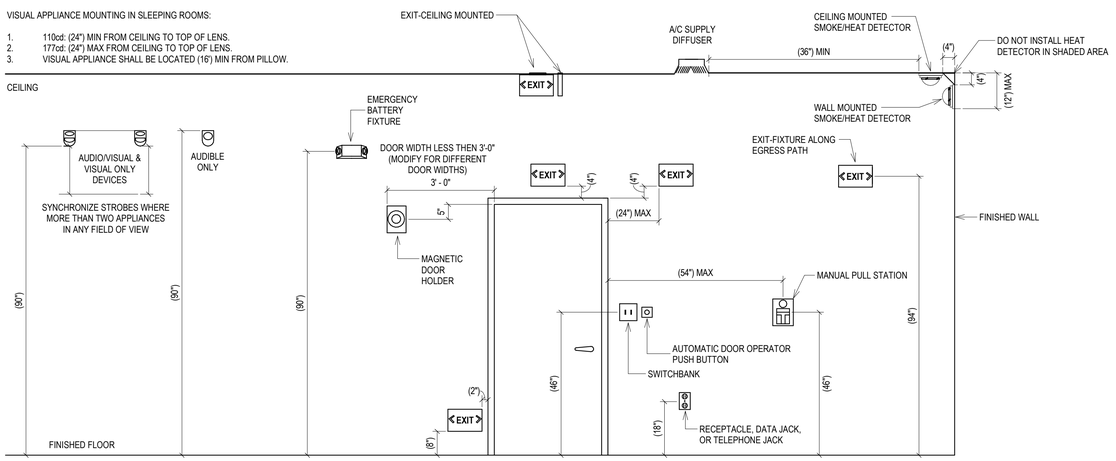
MAX PIPE OR CONDUIT DIAMETER, IN.	ANNULAR SPACE, IN.	F RATING HOUR	T RATING HOUR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

*WHEN COPPER PIPE IS USED, T RATING IS 0 HOUR.
* BEARING THE UL CLASSIFICATION MARKING.
**MING & MFG. CO. - TYPES CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+.

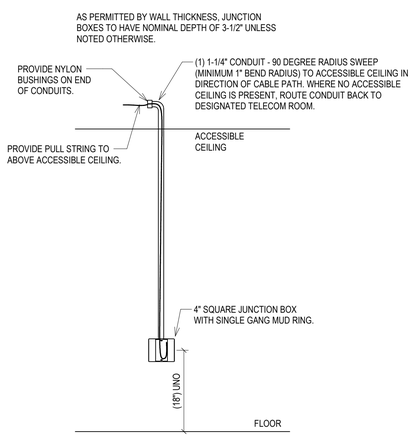
1 E501 ELECTRICAL CONDUIT PENETRATION DETAIL
NOT TO SCALE



5 E501 TYPICAL OUTLET INSTALLATION DETAIL
NOT TO SCALE

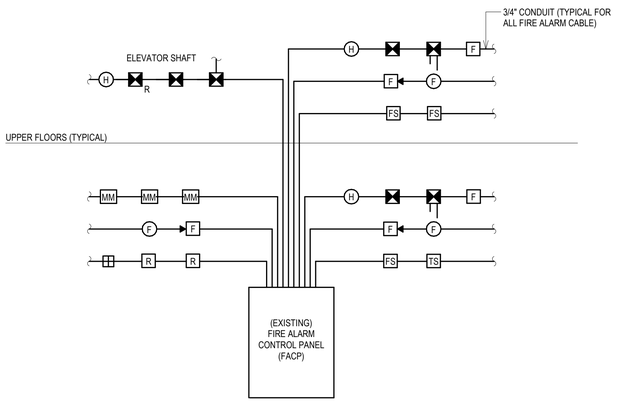


2 E501 TYPICAL MOUNTING HEIGHTS
NOT TO SCALE



NOTES:
1. ADJACENT POWER AND DATA WITHIN 6".

3 E501 LOW VOLTAGE - ROUGH-IN DETAIL
NOT TO SCALE

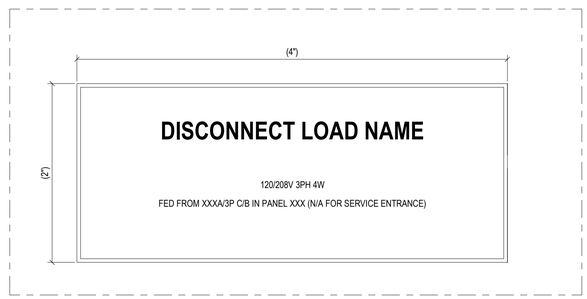


7 E501 FIRE ALARM RISER
NOT TO SCALE



NOTES:
1. LABEL SHALL BE PERMANENTLY AFFIXED TO BE CLEARLY VISIBLE, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN. MARKINGS SHALL MEET REQUIREMENTS IN NEC 110.21(B). ARC FLASH LABEL REQUIRED AT ALL ELECTRICAL EQUIPMENT THAT IS IN OTHER THAN DWELLING UNITS. IN OTHER THAN DWELLING UNITS, AN ADDITIONAL PERMANENT LABEL SHALL BE APPLIED TO SERVICE EQUIPMENT RATED 1200 AMPS OR MORE. SEE DETAIL FOR ARC FLASH LABEL - ADDITIONAL FOR SERVICE EQUIPMENT RATED 1200A OR MORE.

4 E501 ARC FLASH LABEL
NOT TO SCALE



NOTES:
1. AFFIX NAMEPLATE TO EVERY DISCONNECT SWITCH. NAMEPLATE SHALL BE PERMANENTLY AFFIXED TO BE CLEARLY VISIBLE, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN. BASIS OF DESIGN: KOLBI PIPE MARKER CO. CUSTOM ENGRAVED PLASTIC NAMEPLATES 1/8" 2-PLY PLASTIC (OUTDOOR GRADE WHERE APPLICABLE), 2"x4", WHITE LETTERS/BLACK BACKGROUND, NO HOLES, ADHESIVE BACKED, TEXT TO FIT.

6 E501 ENGRAVED PLASTIC NAMEPLATE - DISCONNECT
NOT TO SCALE

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LIGHTING CONTROL DEVICE SCHEDULE

General Notes:

A. COORDINATE LIGHTING CONTROL DEVICE FINISH WITH ARCHITECT.
B. SET ADJUSTABLE TIMEOUT FOR OCCUPANCY AND VACANCY SENSORS TO 15 MINUTES UNLESS NOTED OTHERWISE.
C. FOR SENSORS THAT CAN FUNCTION AS EITHER OCCUPANCY OR VACANCY SENSORS, SET TO VACANCY UNLESS NOTED OTHERWISE.
D. PROVIDE POWER PACKS AND DIMMING MODULES AS REQUIRED FOR WIRELESS SENSORS, CEILING MOUNTED OCCUPANCY AND VACANCY SENSORS TO ACHIEVE DIMMING AS NOTED.
E. SWITCHES WITH A SWITCH NOTATION CONTAINING A NUMBER ARE CONTROLLED BY THE SWITCH/SENSOR WITH THE SAME LETTER DENOTATION. EX: a1 AND a2 ARE CONTROLLED BY a.
F. ALL SWITCHES SHALL BE GANGED TOGETHER WHERE SHOWN ADJACENT ON PLAN. PROVIDE CLARO WALLPLATES AND PICO WALLBOX ADAPTER KITS AS REQUIRED.

Specific Notes:

1. OCCUPANCY SENSOR CONTROLS WITH MANUAL CONTROL REQUIRED FOR CLASSROOMS, CONFERENCE ROOMS, LOUNGES/BREAKROOMS, OFFICES, RESTROOMS, STORAGE ROOMS, LOCKER ROOMS, CORRIDORS, AND OTHER SPACES 300 SQFT OR LESS.
2. FULL AUTOMATIC-ON CONTROLS WITH NO MANUAL CONTROL PERMITTED IN CORRIDORS, STAIRS, RESTROOMS, AND LOBBIES PER ENERGY CONSERVATION CODE OF LOUISIANA C405.2.1.1 EXCEPTION.
3. TIME SWITCH CONTROL PROVIDED PER C405.2.2 IN AREAS NOT REQUIRED TO BE PROVIDED WITH OCCUPANCY SENSOR CONTROLS.
4. TIME-SWITCH CONTROLS NOT REQUIRED PER ENERGY CONSERVATION CODE OF LOUISIANA C405.2.2 EXCEPTION 3:SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANY SAFETY OR SECURITY.
5. LIGHT REDUCTION CONTROLS PROVIDED WITH MANUAL CONTROL TO REDUCE THE CONNECTED GENERAL LIGHTING LOAD BY NOT LESS THAN 50% PER C405.2.3.1.
6. WHERE MANUAL CONTROL IS PROVIDED, LIGHT REDUCTION CONTROLS NOT REQUIRED IN CORRIDORS, LOBBIES, ELECTRICAL, AND MECHANICAL ROOMS PER C405.2.3 EXCEPTION 3.3.

SPACE NAME	SPACE NUMBER	SWITCH TYPE	MANUFACTURER	MODEL	SWITCH ID	DIMMING PROTOCOL	SPECIFIC NOTES (SEE ABOVE)
STAIR	100	LV DT OCCUPANY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	2
FACULTY WORKROOM	102	LV WIRELESS VACANCY SENSOR - CEILING (STAND-ALONE)	LUTRON	LRF2-OCR2B-P-WH	a,b	N/A	1
FACULTY WORKROOM	102	LV WIRELESS VACANCY SENSOR - CEILING (STAND-ALONE)	LUTRON	LRF2-OCR2B-P-WH	a,b	N/A	1
FACULTY WORKROOM	102	PICO REMOTE	LUTRON	PJ2-2BRL-GWH-L01	b	TRIAC	1
FACULTY WORKROOM	102	PICO REMOTE	LUTRON	PJ2-2BRL-GWH-L01	a	TRIAC	1
FACULTY WORKROOM	102	PICO REMOTE	LUTRON	PJ2-2BRL-GWH-L01	a,b	TRIAC	1
WATER HEATER	102A	PIR OCCUPANCY SENSOR	LUTRON	MS-OPS6M2-DV	N/A	N/A	6
MECHANICAL	102B	PIR VACANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	N/A	1
PHONE ROOM	102E	PIR OCCUPANCY SENSOR, TRIAC SWITCH	LUTRON	MS-0PS2-WH	N/A	N/A	6
PHONE ROOM	102F	PIR OCCUPANCY SENSOR, TRIAC SWITCH	LUTRON	MS-0PS2-WH	N/A	N/A	1
PANTRY	102G	DT VACANCY SENSOR	LUTRON	MS-B102-V	N/A	0-10V	1
OFFICE	103	LV DT OCCUPANY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	1
OFFICE	103A	PIR VACANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
OFFICE	103B	PIR VACANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
OFFICE	103C	PIR VACANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
RESTROOM CORRIDOR	104	LV DT OCCUPANY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	d	N/A	2
RESTROOM CORRIDOR	104	PICO REMOTE	LUTRON	PJ2-2BRL-GWH-L01	a,b	TRIAC	2
ADA RESTROOM	104A	PIR OCCUPANCY SENSOR, TRIAC SWITCH	LUTRON	MS-0PS2-WH	N/A	N/A	2
ADA RESTROOM	104B	PIR OCCUPANCY SENSOR, TRIAC SWITCH	LUTRON	MS-0PS2-WH	N/A	N/A	2
RESTROOM	104C	PIR OCCUPANCY SENSOR, TRIAC SWITCH	LUTRON	MS-0PS2-WH	N/A	N/A	2
RESOURCE	105	PIR VACANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
CLASSROOM	106	LV DT VACANCY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	1
CLASSROOM	106	LV DT VACANCY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	1
CLASSROOM	106	MOMENTARY SWITCH	GREENGATE	GMDS	N/A	N/A	1
CLASSROOM	106	DECORATOR 0-10V DIMMER SWITCH	LUTRON	DVSTV	N/A	0-10V	1
CLASSROOM	106	MOMENTARY SWITCH	GREENGATE	GMDS	N/A	N/A	1
BOILER	107	PIR OCCUPANCY SENSOR	LUTRON	MS-OPS6M2-DV	N/A	N/A	6
CLASSROOM	108	LV DT VACANCY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	1
CLASSROOM	108	MOMENTARY SWITCH	GREENGATE	GMDS	N/A	N/A	1
OFFICE	109	LV DT OCCUPANY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	1
OFFICE	109	MOMENTARY SWITCH	GREENGATE	GMDS	N/A	N/A	1
OFFICE	109	DECORATOR 0-10V DIMMER SWITCH	LUTRON	DVSTV	N/A	0-10V	1
OFFICE	109A	LV DT VACANCY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	N/A	N/A	1
OFFICE	109A	MOMENTARY SWITCH	GREENGATE	GMDS	N/A	N/A	1
OFFICE	109A	DECORATOR 0-10V DIMMER SWITCH	LUTRON	DVSTV	N/A	0-10V	1
OFFICE	109B	PIR OCCUPANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
OFFICE	109C	PIR OCCUPANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
OFFICE	109D	PIR OCCUPANCY SENSOR, 0-10V DIMMER SWITCH	LUTRON	MS-Z101-V	N/A	0-10V	1
MECHANICAL	109F	PIR OCCUPANCY SENSOR, TRIAC SWITCH	LUTRON	MS-0PS2-WH	N/A	N/A	6
CORRIDOR	110	LV DT OCCUPANY SENSOR - CEILING (STAND-ALONE)	LUTRON	PP-DV, LOS-CDT-1000-R	c	N/A	2

8/5/2025 3:32:57 PM

Branch Panel: P1C3A

Location: CORRIDOR 110 **Volts:** 208Y/120 **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: RECESSED **Wires:** 4 **Mains Rating:** 600 A
Enclosure: NEMA 1 **Available Short Circuit Current:**

NOTES:
1.) PROVIDE PANEL SCHEDULES FOR ALL PANELBOARDS IN COMPLIANCE WITH NEC 408.4(a) AND 408.4(b). SEE NAMEPLATE DETAIL FOR ADDITIONAL REQUIREMENTS. SUBMITTAL WILL NOT BE CONSIDERED COMPLETE WITHOUT FULL NAMEPLATE DETAIL.
2.) PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT
1					0.0 kVA	0.0 kVA									2
3	EXISTING		150 A	3			0.0 kVA	0.0 kVA			3	225 A		EXISTING	4
5									0.0 kVA	0.0 kVA					6
7	Recept - Office 103, 103A		20 A	1	0.9 kVA	0.9 kVA					1	20 A		CT Receptacles - Faculty	8
9	Quads - Office 103		20 A	1			1.4 kVA	0.7 kVA			1	20 A		Recept - Faculty Workroom	10
11	Recept - Office 103B, 103C, 105		20 A	1					1.1 kVA	0.4 kVA	1	20 A		Recept - Faculty Workroom	12
13	Recept - Resource 105, Vest 119		20 A	1	0.8 kVA	1.8 kVA					1	20 A		Copy Machine	14
15	Recept - RR 104		20 A	1			0.5 kVA	2.3 kVA			2	30 A		Water Heater	16
17	Lighting - Corridor 110, Stairs		20 A	1					0.6 kVA	2.3 kVA					18
19	D - Microwave		20 A	1	1.0 kVA	0.0 kVA									20
21	D - Microwave		20 A	1			1.0 kVA	0.0 kVA			3	80 A	1	EXISTING	22
23	Recept - Faculty 102		20 A	1					0.7 kVA	0.0 kVA					24
25	A - Fridge		20 A	1	1.8 kVA	0.0 kVA					1	20 A		SPARE	26
27	A - Fridge		20 A	1			1.8 kVA	0.0 kVA			1	20 A		SPARE	28
29	F - Coffee Brewer		20 A	1					1.6 kVA	0.0 kVA					30
31	B - Dishwasher		20 A	1	1.4 kVA	0.0 kVA					3	100 A		EXISTING	32
33	SPARE		20 A	1			0.0 kVA	0.0 kVA							34
35	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	36
37	SPARE		20 A	1	0.0 kVA	0.0 kVA									38
39	SPARE		20 A	1			0.0 kVA	0.0 kVA			3	100 A		EXISTING	40
41	SPARE		20 A	1					0.0 kVA	0.0 kVA					42
			Total Load:		8.6 kVA		7.8 kVA		6.6 kVA						
			Total Amps:		73 A		66 A		55 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	623 VA	100.00%	623 VA		
Power	4500 VA	100.00%	4500 VA	**Total Conn. Load:**	23.1 kVA
Receptacle	12500 VA	90.00%	11250 VA	**Total Est. Demand:**	21.81 kVA
Appliance - Dwelling Unit	400 VA	100.00%	400 VA	**Total Conn. Current:**	64 A
Kitchen Equipment - Non-Dwelling Unit	3600 VA	100.00%	3600 VA	**Total Est. Demand Current:**	61 A
Appliance	1440 VA	100.00%	1440 VA		

Notes:

Branch Panel: P1C3B

Location: CORRIDOR 110 **Volts:** 208Y/120 **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: RECESSED **Wires:** 4 **Mains Rating:** 600 A
Enclosure: NEMA 1 **Available Short Circuit Current:**

NOTES:
1.) PROVIDE PANEL SCHEDULES FOR ALL PANELBOARDS IN COMPLIANCE WITH NEC 408.4(a) AND 408.4(b). SEE NAMEPLATE DETAIL FOR ADDITIONAL REQUIREMENTS. SUBMITTAL WILL NOT BE CONSIDERED COMPLETE WITHOUT FULL NAMEPLATE DETAIL.
2.) PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT
1					0.0 kVA	0.0 kVA									2
3	EXISTING		150 A	3			0.0 kVA	0.0 kVA			3	225 A		3RD FLOOR MDP	4
5									0.0 kVA	0.0 kVA					6
7	HPCU-IT		30 A	1	1.7 kVA	--					1	--		PROVISION	8
9	PROVISION		--	1			--	--			1	--		PROVISION	10
11	PROVISION		--	1					--	--	1	--		PROVISION	12
13	PROVISION		--	1	--	--					1	--		PROVISION	14
15	PROVISION		--	1			--	--			1	--		PROVISION	16
17	PROVISION		--	1					--	--	1	--		PROVISION	18
19					0.0 kVA	0.0 kVA									20
21	SPARE	1	0 A	3			0.0 kVA	0.0 kVA			3	0 A	1	EXISTING	22
23									0.0 kVA	0.0 kVA					24
25					0.0 kVA	0.0 kVA					2	0 A	1	EXISTING	26
27	SPARE	1	0 A	3			0.0 kVA	0.0 kVA							28
29									0.0 kVA	0.0 kVA					30
31	RECEPTACLE ADMIN 109A		20 A	1	1.4 kVA	0.0 kVA					2	40 A		EXISTING	32
33	Recept - Office 109, 109D		20 A	1			1.1 kVA	0.0 kVA							34
35	RECEPTACLE ADMIN 109C		20 A	1					1.3 kVA	0.0 kVA	2	0 A	1	EXISTING	36
37	SPARE		20 A	1	0.0 kVA	0.0 kVA									38
39	SPARE		20 A	1			0.0 kVA	0.0 kVA			2	0 A	1	EXISTING	40
41	SPARE		20 A	1					0.0 kVA	0.9 kVA	1	20 A		Recept - Classroom 106	42
			Total Load:		3.2 kVA		1.1 kVA		2.2 kVA						
			Total Amps:		28 A		9 A		20 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1728 VA	125.00%	2160 VA		
Receptacle	4320 VA	100.00%	4320 VA	**Total Conn. Load:**	6.4 kVA
Appliance - Dwelling Unit	400 VA	100.00%	400 VA	**Total Est. Demand:**	6.88 kVA
				Total Conn. Current:	18 A
				Total Est. Demand Current:	19 A

Notes:
1.) VERIFY CIRCUIT BREAKER SIZE IN FIELD PRIOR TO SUBMITTING.

Branch Panel: P2C3

Location: CORRIDOR 213 **Volts:** 208Y/120 **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **Available Short Circuit Current:**

NOTES:
1.) PROVIDE PANEL SCHEDULES FOR ALL PANELBOARDS IN COMPLIANCE WITH NEC 408.4(a) AND 408.4(b). SEE NAMEPLATE DETAIL FOR ADDITIONAL REQUIREMENTS. SUBMITTAL WILL NOT BE CONSIDERED COMPLETE WITHOUT FULL NAMEPLATE DETAIL.
2.) PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT
1	EXISTING		20 A	1	0.0 kVA	0.0 kVA					1	20 A		EXISTING	2
3	SPARE		20 A	1			0.0 kVA	0.0 kVA			1	20 A		EXISTING	4
5	EXISTING		20 A	1					0.0 kVA	0.0 kVA	1	20 A		EXISTING	6
7					0.0 kVA	0.0 kVA									8
9	EXISTING	1	0 A	3			0.0 kVA	0.0 kVA			3	20 A		EXISTING	10
11									0.0 kVA	0.0 kVA					12
13	EXISTING		20 A	1	0.0 kVA	0.0 kVA					1	20 A		EXISTING	14
15	EXISTING		20 A	1			0.0 kVA	0.0 kVA			1	20 A		EXISTING	16
17	EXISTING		20 A	1					0.0 kVA	0.0 kVA	1	20 A		EXISTING	18
19	EXISTING		20 A	1	0.0 kVA	0.0 kVA					1	20 A		EXISTING	20
21	EXISTING		20 A	1			0.0 kVA	0.0 kVA			1	20 A		EXISTING	22
23	EXISTING		20 A	1					0.0 kVA	0.0 kVA	1	20 A		EXISTING	24
25					0.0 kVA	0.0 kVA									26
27	EXISTING		40 A	3			0.0 kVA	0.0 kVA			3	30 A	1	EXISTING	28
29									0.0 kVA	0.0 kVA					30
31	SPARE		20 A	1	0.0 kVA	0.0 kVA					2	80 A		EXISTING SUB PANEL	32
33	EXISTING		20 A	1			0.0 kVA	0.0 kVA							34
35	Recept - Office 211, 212		20 A	1					0.9 kVA	1.4 kVA	1	20 A		Quads - Offices 216, 217, 219, 221	36
37	Recept - Office 211, 212		20 A	1	0.9 kVA	1.4 kVA					1	20 A		Recept - Office 217, 219, 221	38
39	EXISTING		60 A	2			0.0 kVA	1.1 kVA			1	20 A		Recept - Office 215, 216	40
41									0.0 kVA	1.4 kVA	1	20 A		Quads - Offices 207,208,209,210	42
43	SPARE		20 A	1	0.0 kVA	1.3 kVA					1	20 A		Recept - 207, 208, 209, 210	44
45	SPARE		20 A	1			0.0 kVA	0.2 kVA			1	20 A		Lighting - Corridor 213, Stairs	46
47	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	48
49	SPARE		20 A	1	0.0 kVA	0.0 kVA					1	20 A		SPARE	50
51	SPARE		20 A	1			0.0 kVA	0.0 kVA			1	20 A		SPARE	52
53	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	54
			Total Load:		3.6 kVA		1.3 kVA		3.8 kVA						
			Total Amps:		33 A		11 A		34 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	223 VA	100.00%	223 VA		
Receptacle	8100 VA	100.00%	8100 VA	**Total Conn. Load:**	8.7 kVA
Appliance - Dwelling Unit	400 VA	100.00%	400 VA	**Total Est. Demand:**	8.72 kVA
				Total Conn. Current:	24 A
				Total Est. Demand Current:	24 A

Notes:

Branch Panel: P3C1A

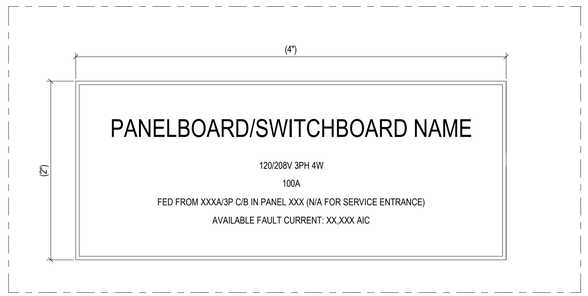
Location: HALLWAY 310 **Volts:** 120/208 Single **A.I.C. Rating:**
Supply From: **Phases:** 1 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 3 **Mains Rating:** 100 A
Enclosure: NEMA 1 **Available Short Circuit Current:**

NOTES:
1.) PROVIDE PANEL SCHEDULES FOR ALL PANELBOARDS IN COMPLIANCE WITH NEC 408.4(a) AND 408.4(b). SEE NAMEPLATE DETAIL FOR ADDITIONAL REQUIREMENTS. SUBMITTAL WILL NOT BE CONSIDERED COMPLETE WITHOUT FULL NAMEPLATE DETAIL.
2.) PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.

CKT	Circuit Description	Note	Trip	Pole	A		B		Pole	Trip	Note	Circuit Description	CKT
1	EXISTING		20 A	1	0.0 kVA	0.0 kVA			1	20 A		EXISTING	2
3	EXISTING		20 A	1			0.0 kVA	0.0 kVA	1	20 A		EXISTING	4
5	EXISTING		20 A	1	0.0 kVA	0.0 kVA			1	20 A		EXISTING	6
7	EXISTING		20 A	1			0.0 kVA	0.0 kVA	1	20 A		EXISTING	8
9	EXISTING		20 A	1	0.0 kVA	0.0 kVA			1	20 A		EXISTING	10
11	Quad - Server 334		20 A	1			0.4 kVA	1.3 kVA	1	20 A		Recept - Resource 305	12
13	Quad - Server 334		20 A	1	0.4 kVA	1.2 kVA			1	20 A		Recept - Resource 305	14
15	Quad - Server 334		20 A	1			0.4 kVA	0.0 kVA	1	20 A		SPARE	16
17	Recept - Attic		20 A	1	0.2 kVA	0.0 kVA			1	20 A		SPARE	18
			Total Load:		1.7 kVA		2.0 kVA						
			Total Amps:		16 A		19 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	2880 VA	100.00%	2880 VA		
Appliance - Dwelling Unit	800 VA	100.00%	800 VA	**Total Conn. Load:**	3.7 kVA
				Total Est. Demand:	3.68 kVA
				Total Conn. Current:	18 A
				Total Est. Demand Current:	18 A

Notes:



NOTES:
1. AFFIX NAMEPLATE TO EVERY PANELBOARD AND SWITCHBOARD. NAMEPLATE SHALL BE PERMANENTLY AFFIXED TO BE CLEARLY VISIBLE, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN. BASIS OF DESIGN: KOLBI PIPE MARKER CO. CUSTOM ENGRAVED PLASTIC NAMEPLATES 1/8" 2-PLY PLASTIC (OUTDOOR GRADE WHERE APPLICABLE), 2"x4", WHITE LETTERS/BLACK BACKGROUND, NO HOLES, ADHESIVE BACKED, TEXT TO FIT.

1 E602 ENGRAVED PLASTIC NAMEPLATE - PANELBOARD
NOT TO SCALE

STUDIOWEST
2340 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70117

ST. GEORGE'S EPISCOPAL SCHOOL

PORTEOUS BUILDING

923 Napoleon Avenue
New Orleans, LA 70115

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