LOCUS MAP:

PROJECT TEAM:

OWNER/DEVELOPER:

TOWN OF ORLEANS , MA

ARCHITECT:

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SPECIFICATIONS:

KALIN ASSOCIATES, INC.
1121 WASHINGTON STREET, WEST NEWTON, MA. 02465

OLD FIREHOUSE

221028

ORLEANS COMMUNITY BUILDING
ORLEANS, MA **02653**
TOWN OF ORLEANS , MA

ISSUE DATE: **03/11/2022**

100% CONSTRUCTION DOCUMENTS

PLOTTED ON: 3/11/2022 5:41:21 PM

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P-5.00	PLUMBING DETAILS
P-6.00	PLUMBING SCHEDULES AND DIAGRAMS
PD-1.00	PLUMBING DEMOLITION FLOOR PLAN
MECHANICAL	
M-0.00	MECHANICAL ABBREVIATIONS, NOTES AND SYMBOLS
M-1.00	MECHANICAL BASEMENT FLOOR PLAN
M-1.01	MECHANICAL FIRST FLOOR PLAN
M-1.02	MECHANICAL SECOND FLOOR PLAN
M-5.00	MECHANICAL DETAILS
M-6.00	MECHANICAL SCHEDULES AND DIAGRAMS
MD-1.00	MECHANICAL DEMOLITION FLOOR PLANS
ELECTRICAL	
E-0.00	ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS
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ES-1.00	ELECTRICAL SITE UTILITY PLAN
ELECTRICAL	
ED-1.00	ELECTRICAL DEMOLITION PLANS
ELECTRICAL	
EL-1.00	ELECTRICAL LIGHTING BASEMENT FLOOR PLAN
EL-1.01	ELECTRICAL LIGHTING FIRST FLOOR PLAN
EL-1.02	ELECTRICAL LIGHTING SECOND FLOOR PLAN
ELECTRICAL	
EP-1.00	ELECTRICAL POWER BASEMENT FLOOR PLAN
EP-1.01	ELECTRICAL POWER FIRST FLOOR PLAN
EP-1.02	ELECTRICAL POWER SECOND FLOOR PLAN
ELECTRICAL	
E-5.00	ELECTRICAL DETAILS
E-5.01	ELECTRICAL DETAILS
E-6.00	ELECTRICAL SCHEDULES AND DIAGRAMS
E-6.01	ELECTRICAL SCHEDULES AND DIAGRAMS
Total Number of Sheets: 67	

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE

101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

DRAWING LIST

G-001

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ABBREVIATIONS

A	Air
A/C	Air Conditioning
A/V	Audio Visual
AB	Anchor Bolts
ABV	Above
AC	Alternating Current
AC/PC	Architectural Cast In Place Concrete
ACC	Accessory, Accessories
ACP	Access Panel
ACT	Acoustical Ceiling Tile
AD	Area Drain
ADA	Americans with Disabilities Act
ADDNL	Additional
ADH	Adhesive
ADJ	Adjustable
AF	Above Floor
AFF	Above Finished Floor
AGG	Aggregate
ALT	Alternate
ALUM	Aluminium
ANC	Anchor(s), Anchorage(s)
ANOD	Anodized
ANT	Antenna(e)
AP	Access Panel
APP	Approved
APPROX	Approximate
ARA	Area of Rescue Assistance
ARCH	Architectural
AT	Aluminum Threshold
ATS	Animal Transfer Station
AV	Audio Visual
AVB	Air/Vapor Barrier
AVE	Avenue
AVG	Average
AW	Automated Watering
AWS	Animal Watering System
AWSC	Animal Watering System Controller
L	Angle
BAS	Building Automated System
BC	Bottom of Curb
BCO	Brick Course
BD	Board
BDD	Back Draft Damper
BF	Bottom of Footing
BG	Bearing
BIT	Bituminous
BK	Brick
BLDG	Building
BLK	Block
BLKG	Blocking
BLW	Below Countertop at Knee Space
BM	Beam
BMK	Bench Mark
BO	Bottom of
BOC	Bottom of Concrete
BOL	Bollard
BOT	Bottom
BOW	Bottom of Wall
BPL	Bearing Plate
BRG	Bridging, Bridge(d)
BRKT	Bracket
BS	Both Sides
BSC	Bio Safety Cabinet
BTB	Back to Back
BTU	British Thermal Unit
BUR	Built Up Roofing
BW	Both Ways
C	Centigrade (Celcius)
CAB, CBT	Cabinet
CABO	Council of American Building Officials
CB	Catch Basin, Chalkboard
CEM	Cement
CF	Cubic Feet
CFCI	Contractor Furnished & Contractor Installed
CFL	Counterflashing(s)
CFM	Cubic Feet per Minute
CFS	Cubic Feet per Second
CG	Corner Guard
CH, [	Channel
CHB	Chalkboard
CHWR	Chilled Water Return
CHWS	Chilled Water Supply
CI	Cast Iron
CIP	Cast In Place
CJ	Control Joint
CK	Chaulk/Chalk
CKT	Circuit
CL	Centerline
CLF	Chain Link Fence
CLG	Ceiling
CLL	Contract Limit Line
CLM	Centerline of Mullion
CLOS	Closet
CLR	Clear(ance)
CLS	Closure
cm	Centimeter
CMU	Concrete Masonry Unit
CO	Convenience Outlet Receptacle, Cleanout
COL	Column
COMM	Command
COMP	Compress(ed), (ion), (ible)
CONC	Concrete (Portland Cement)
COND	Conduit
CONST	Construction
CONT	Continuous
CONTR	Contractor
CR	Cold Rolled
CS	Countersink, Countersunk
CT	Ceramic Tile
CTC	Center to Center
CTR	Center
CTR	Center
CU	Cubic, Copper
CU IN	Cubic Inch
CUH	Cabinet Unit Heater
CV	Check Valve
CW	Cold Water
CX	Connection
CY	Cubic Yard
CYL	Cylinder, Cylindrical
D	Drain, Drainage Line
DB	Decibel, Drainboard (Interchangeable w/ DR)
DBL	Double
DC	Direct Current
DCX	Disconnect
DEG	Degree
DEM	Demolish, Demolition
DEP	Depressed
DET	Detail
DF	Drinking Fountain
DH	Double-Hung
DI	Drain Inlet
DIA	Diameter
DIAG	Diagonal
DIF	Diffuser
DIM	Dimension
DL	Dead Load
DMH	Drop Manhole
DN	Down
DP	Dampproof (ed), (ing)
DPL	Disposal, Disposable
DPN	Dispenser
DPR	Damper
DR	Door
DS	Downspout
DT	Drain Tile
DTA	Dovetail Anchor
DTS	Dovetail Anchor Slot
DW	Dishwasher
DWG, DRWG	Drawing(s)

ABBREVIATIONS

E, ELECT	Electric, Electrical
EA	Each
EB	Expansion Bolt
ED	Exhaust Duct
EF	Exhaust Fan
EFF	Efficiency
EH	Exhaust Hood
EIFS	Exterior Insulated Finish System
EJ	Expansion Joint
EL	Elevation
ELEC	Electric(al)
ELEV	Elevator
EMERG	Emergency
ENC, ENCL	Enclose, Enclosure
EO	Edge of
EOS	Edge of Slab
EP	Electric Panel
EPS	Extruded Polystyrene
EQ, =	Equal
EQP, EQUIP	Equipment
ES	Emergency Shower
ESV	Emergency Shower Valve
ET	Extended, Extension
ETR	Existing to Remain
EW	Each Way
EWC	Electric Water Cooler
EXIEXIS	Existing
EXH	Exhaust
EXIST	Existing
EXP	Expansion, Exposed
EXT	Exterior
F & I	Furnish & Install
FA	Fire Alarm Station
FAB	Fabrication
FAI	Fresh Air Intake
FBD	Finer Board
FBO	Furnished by Others
FCO	Floor Clean Out
FD	Floor Drain
FDC	Fire Department Connection
FDN	Foundation
FE	Fire Extinguisher
FEC, FXC	Fire Extinguisher Cabinet
FEH	Fire Extinguisher Hook
FF	Finish Floor
FFE	Finish Floor Elevation
FFL	Finish Floor Line
FGL	Fiberglass
FGR	Floor Grille (Register)
FH	Fire Hydrant
FHC	Fire Hose Cabinet
FHCE	Fume Hood Ceiling Enclosure
FHCS	Flat Head Countersink Screw
FHR	Fire Hose Rack
FHWS	Flat Head Wood Screw
FIL	Filler(s)
FIN	Finish
FIXT	Fixture
FL	Flow Line
FLG	Flashing
FLR	Floor, Flooring
FLU, FLUOR	Fluorescent
FLX	Flexible
FMN	Fire Main
FND, FDW	Foundation (Wall)
FNDP	Feminine Napkin Disposal Unit
FNDR	Feminine Napkin Dispenser Unit
FO	Face of, Fiber Optic
FOC	Face of Concrete
FOP	Face of Precast
FOS	Face of Stud
FP	Fireproof (ing)
FPM	Feet per Minute
FPS	Feet per Second
FR	Fire Resistant
FR	Frame(d), (ing)
FRC	Fire-Resistant Coating
FRM	Frame
FRP	Fiber Reinforced Plastic
FRT	Fire-Retardant Treatment
FS	Firestopping
FSL	Fusable Link
FT	Feet, Foot
FTG	Footing
FTR	Fin Tube Radiation
FURR	Furring
FUT	Future
FV	(Contractor to) Field Verify
FWK	Formwork
FWP	Fiber Wrapped Panel
FXD	Fixed
FXT	Fixture
G	Gas
GA	Gauge
GAL	Gallon(s)
GALV	Galvanized
GAV	Gate Valve
GB	Grab Bar
GC	General Contractor
GD	Ground(ed)
GFI	Ground Fault Interrupting
GFRC	Glass Fiber Reinforced Concrete
GFRG	Glass Fiber Reinforced Gypsum
GI	Galvanized Iron
GKT	Gasket(ed)
GL	Glass
GLB	Glass Block
GMU	Glazed Masonry Unit
GPH	Gallon per Hour
GPL	Gypsum Plaster
GPM	Gallon per Minute
GPS	Gallon per Second
GR	Grille
GRD	Grade, Grading
GRT	Granite
GST	Galvanized Steel
GT	Grout(ed)
GV	Gas Valve
GVL	Gravel
GWB, GYP BD	Gypsum Wall Board
GYL	Gypsum Lathe
GYP	Gypsum
HA	Hanger
HAV	Heating & Air Conditioning
HB	Hose Bibb
HBD	Hardboard
HC	Handicap(ped)
HCWD	Hollow Core Wood
HD	Head
HDE	Heat Detector
HDN	Hardener(ed)
HDR	Header
HDW	Hardware
HE	Helium
HeR	Helium Return
HGT	Height
HH	Hand Hold
HK	Hook
HM	Hollow Metal
HMD	Hollow Metal Door
HMF	Hollow Metal Frame
HO	Hold Open
HOR, HORZ	Horizontal
HP	High Point, Horsepower
HPL	High Pressure Laminate
HR	Hour
HTG	Heating
HTR	Heater
HV	High Voltage
HVAC	Heating, Ventilation and Air Conditioing
HVC	Heating, Ventilating, Cooling

ABBREVIATIONS

HW	Hot Water
HWC	Hot Water Circulator
HWD	Hardwood
HWF	Hot Water Faucet
HWH	Hot Water Heating
HWR	Hot Water Return
HWT	Hot Water Tank
HWY	Highway
HYD	Hydrant
Hz	Hertz (Cycle per Second)
ID	Inside Diameter
IDM	Isolate Disc. Metals
IE	Invert Elevation
IMC	Insulated Metal Clad
IN	Inch or Inches
INCAND	Incandescent
INCL	Including (ed), (sive)
INFO	Information
INSUL	Insulate(d),(ation)
INT	Interior
INV	Invert
J	Joist
JAN	Janitor
JB	Junction Box
JCT	Junction
JF	Joint Filler
JS	Joint Sealer
JT	Joint
K	Kip
KD	Knock Down
KVA	Kilovolt-Ampere
KW	Kilowatt
L or LH	Long Span Steel Joist
LAD	Ladder
LAM	Laminate(d)
LAT	Lateral
LAV	Lavatory
LB	Lag Bolt
LBL	Lable
LBS, #	Pound's
LCC	Lead Coated Copper
LDR	Leader
LG	Long, Length
LGMF	Light Gauge Metal Framing
LH	Left-Hand
LIN	Linen
LKR	Locker
LL	Live Load
LMF	Light Gauge Metal Framing (sim)
LOC	Location
LONG	Longitudinal
LP	Low Point, Low Pressure, Light Proof
LS	Limestone
LTG	Lighting
LTL	Lintel
LV	Low Voltage
LVR	Louver
LW	Light Weight
LWOD	Less Width of Door
M	Meter
MACH	Machine
MAS	Masonry
MAX	Maximum
MB	Machine Bolt
MBL	Marble
MBR	Member
MC	Medicine Cabinets
MCJ	Masonry Control Joint
MDF	Medium Density Fiberboard
MDO	Medium Density Overlay
ME	Metal Edge
MECH	Mechanical
MED	Medium
MEMB	Membrane
MET	Metal
MEZZ	Mezzanine
MFD, MFR'D	Manufactured
MFR	Manufacturer
MH	Manhole
MHT	Mounting Height
MIC	Microphone
MIN	Minimum
MIR	Mirror
MISC	Miscellaneous
MJ	Masonry Joint
MK	Mark
MLD	Molding
mm	Millimeter
MMB, MEMB	Membrane
MO	Masonry Opening
MOD	Modular
MOS	Mossaic
MP	Metal Panel
MR	Moisture Resistant
MRE	Metal Roof Deck(ing)
MT	Mount(ed), (ing)
MTC	Metal Clad
MTD	Mounted
MTL	Metal, Material(s)
MUL	Mullion
MW	Modular Wall (enclosing autoclaves, etc.)
MWK	Millwork
MXV	Mixing Valve
N	Nitrogen
NA	Not Applicable
NAT	Natural (Finish)
NC	Non-corrosive
NER	National Evaluation Report
NIC	Not In Contract
NL	Nailable
No, #	Number
NOM	Nomial
NRC	Noise-Reduction Co-efficient
NTS	Not To Scale
K,L,H	Open-Web steel Joist
O.H., OPH	Opposite Hand
O.H.DR, OVHD	Overhead Door
OA	Overall
OAE	Or Approved Equal
OBL	Oblique
OC	On Center
OD	Outside Diameter
OF	Owner Furnished
OFCI	Owner Furnished & Contractor Installed
OFO	Owner Furnished & Owner Installed
OFOI	Owner Furnished & Owner Installed
OH	Overhead
OHB	Overhead Braced
OHS	Opposite Hand Similar
OHSG	Overhead Service Grid
OPG, OPGN	Opening
OPNG	Opening
OPP	Opposite
OPPH	Opposite Hand
OPR	Operator
OSB	Oriented Strand Board
OVP	Overhead Video Projector
OVPS	Overhead Video Projector Support
OX	Oxygen
oz	Ounce

ABBREVIATIONS

P	Patch
PA	Public Address System
PAR	Parallel
PB	Pull Box
PBD	Particle Board
PC	Physically Challenged
PCC	Precast Concrete
PCF	Pounds per Cubic Foot
PCT or %	Percent
PCWR	Process Chilled Water Return
PCWS	Process Chilled Water Supply
PD	Pump Discharge
PDF	Power Driven Fastener(ing)
PE	Porcelain Enamel
PERIM	Perimeter
PERP	Perpendicular
PF	Perforate(d)
PGL	Plate Glas
PH (1)	Single Phase
PH (3)	Three Phase
PIC	Poured In-Place Concrete
PIV	Post Indicator Valve
PL	Plate
PLAM	Plastic Laminate
PLAS	Plaster
PLF	Pond per Linear Foot
PLUMB	Plumbing
PLWD	Plywood
PM	Pressed Metal, Premolded
PMTL	Pressed Metal
PNL	Panel
PNU	Pneumatic
POL	Polish(ed)
PP	Pumping Port
PP	Pump
PR	Pair
PREFAB	Prefabricated
PRF	Preformed
PRN	Prefinish(ed)
PROJ	Project
PRS	Pressure Reducing Station
PS	Projector Screen
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Point
PT	Pressure Treated, Point, "P" Trap
PTD, PNT	Paint(ed)
PTN	Partition
PU	Pull, Pull Chain
PUB	Public
PVC	Poly Vinyl Chloride
PVT	Private
QT	Quarry Tile
QTY	Quantity
R&D	Remove & Dispose
R&R	Remove and Reinstall
R&S	Remove and Salvage
R, RA	Riser (or) Radius
R/F	Ref. or Freezer (by owner)
RA	Return Air
RAD	Raditor
RC	Reinforced Concrete
RCP	Reflect Ceiling Plan
RD	Roof Drain
RE	Reference
RECP	Receptacle
RECV	Receiving
REF	Refrigerator
REG	Register
REINF, RFC	Reinforce(d) (ing)
REQ'D, REQ	Required
RESIL	Resilient
REV	Revision, Revise(d)
RFG	Roofing
RFL	Reflective
RH	Right-Hand
RL	Rail, Railing
RM	Room
RMS	Rooms
RO	Rough Opening
ROW	Right-of-Way
RP	Rustproof(ing)
RPM	Revolutions per Minute
RPS	Revolutions per Second
RR	Railroad
RTN	Retain(ed) (er) (ing)
RU	Rubber
RW	Raceway
RWL	Rain Water Leader
S&R	Shelf & Rod
S, SK	Sink
S, STR	Structural
SAN	Sanitary (sewer)
SAT	Suspended Acoustical Tile
SCA	Spray on Cementitious Acoustical
SCN	Screen
SCW	Solid Core Wood
SD, SDE	Smoke Detector, Storm Drain
SDL	Saddle
SECT	Section
SEL	Select (or) (ion)
SF	Square Feet
SG	Special Glass
SH	Shelf, Shelving, Single-Hung
SHR	Shower Receptor
SHT	Sheet
SIM	Similar
SIP	Structural Insulated Panel
SKL	Skylight
SL	Sleeve
SLR	Sealer
SLT	Sealant
SMRF	Seamless Mechanical Room Floor
SMV	Smoke-Venting Hatch
SP	Soundproof(ing)
SPEC	Specifications
SPF	Specified
SPK	Speaker
SPR	Sprinkler
SPT	Septic Tank
SQ	Square
SS	Stainless Steel
SSK	Service Sink
SSM	Solid Surface Material
ST	Street
ST, STL	Steel
STAG	Stagger
STD	Standard
STG	Seating
STH	Sheathing
STIFF	Stiffener
STN	Stone
STOR, STO	Storage
SUP	Support
SUSP	Suspended
SUSP CEIL	Suspended Ceiling
SVC	Service
SY	Square Yard
SYM	Symmetry (ical)
SYS	System

ABBREVIATIONS

T	Tread
T.O.	Top of
T.O.C.	Top of Concrete / Curb
T.O.F.	Top of Footing
T.O.M.	Top of Masonry
T.O.P.	Top of Parapet
T.O.R.	Top of Rail
T.O.S., TS	Top of Steel
T.O.T.	Top of Tunnel
T.O.W.	Top of Wall
TB	Tackboard
TC	Top of Curb
TCL	Time Clock
TCV	Temperature Control Valve
TD	Trench Drain
TEL	Telephone
TEMP, TMP	Tempered (or) Temporary
TG	Tempered Glass
TG, T&G	Tongue & Groove
TH	Thick(ness)
THM	Thermometer
THR	Threshold
THS	Thermostat
TJI	Truss Joist 'I" Section
TMV	Thermostatic Mixing Valve
TOL	Tolerance
TP	Test Pit, Turning Point
TR	Transom
TRANS	Transformer
TV	Television
TYP	Typical
TZ	Terrazzo
U.N.O.	Unless Noted Otherwise
U.O.N.	Unless Otherwise Noted
UAS	Upward Acting Sectional
UC	Under Counter
UF	Under Floor (duct)
UG	Underground
UH	Unit heater
UHF	Ultrahigh Frequency
UK	Unit Kitchen
UL	Underwriters Laboratory
UNF	Unfinished
UV	Unit Ventilator
V	Volt(age)
V.I.F.	Verify In Field
VA	Vacuum
VAB	Vacuum Breaker
VB	Vapor Barrier, Vinyl Base
VC	Vitrified Clay
VCT	Vinyl Composition Tile
VE	Vent
VERT, VER	Vertical
VF	Vinyl Fabric
VHF	Very High Frequency
VI	Vibration Isolator
VIT	Vitreous
VJ	V-Jointed
VLF	Very Low Frequency
VNL	Vinyl
VNR	Veneer
VP	Vaporproof
VQT	Vinyl Quartz Tile
VR, VTR	Vent Through Roof
VS	Vinyl Sheet
VT	Vinyl Tile
VTR	Ventilator
VWC	Vinyl Wallcovering
W	Waste
w/	With
w/in	Within
w/o, WO	Without
WB	Wood Base
WBM	Wooden Beam
WBO	Work By Others
WBOR	Work By Owner
WBT	Work By Tenant
WC	Water Closet
WD	Wood
WE	Weephole
WF	Steel Beam (Wide Flange)
WG	Wirre Glass, Wall Guard
WH	Wall-Hung
WHA	Water Hammer Arrestor
WHY	Wall Hydrant
WI	Wrought Iron
WID, W	Width
WK	Work
WKRM	Workroom
WM	Wire Mesh
WMS	Wire Mesh Screen
WN	Wainscot
WP	Waterproof(ed) (ing)
WPT	Working Point
WR	Waste Receptacle
WST	Weather Stripping
WTW	Wall to Wall
WWF	Welded Wire Fabric
XPS	Exposed
XR	X-ray
Y	WYE Fitting
Z	Zone
ZC	Zinc Coated
ZS	Zee Stud

GRAPHIC SYMBOLS

CROSS REFERENCE TAGS

DRAWING TITLE

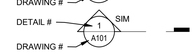
BUILDING COLUMN LINES

ELEVATION REFERENCE - EXTERIOR

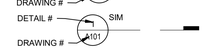
DETAIL REFERENCE - ENLARGED & DETAIL VIEW

SECTION REFERENCE - BUILDING VIEW

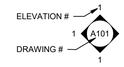
SECTION REFERENCE - WALL VIEW



DETAIL REFERENCE - SECTION

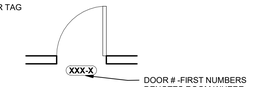


ELEVATION REFERENCE - INTERIOR



CONSTRUCTION SYMBOLS

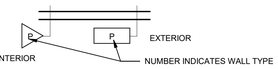
DOOR TAG



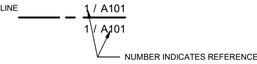
WINDOW TAG

LOUVER TAG

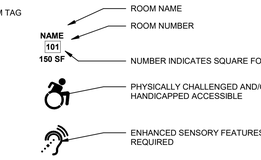
WALL TAG



MATCHLINE



ROOM TAG



DIMENSIONS

DIMENSIONS ARE ELEMENT TO ELEMENT

DIMENSIONS ARE OPEN TO ELEMENT — TO BEYOND

CENTERLINE	℄
CENTERLINE BEAM	℄ BM
CENTERLINE COLUMN	℄ COL
CENTERLINE STUD	℄ STUD
CENTERLINE WALL	℄ WALL
CENTERLINE CMU	℄ CMU

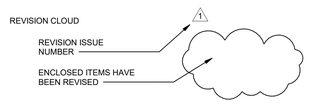
ALIGN SYMBOL — ALIGN

FINISH FLOOR ELEVATION / DATUM IN PLAN — 100'-0"

FINISH FLOOR ELEVATIONS IN SECTIONS / ELEVATIONS — FIN FL 100'-0"

NORTH ARROW w/ TRUE NORTH — NORTH

REVISION CLOUD



OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

ABBREVIATIONS & GRAPHIC SYMBOLS

G-002

3/11/2022 5:41:25 PM

DEMO ELEVATION LEGEND

PORTION OF MASONRY WALL TO BE DEOMOLISHED

DEMO GENERAL KEY NOTES

1. REMOVE EXISTING WALL OR PARTITION INCLUDING SILL PLATE, TOP PLATES, BLOCKING AND ANCHORS TO ADJACENT SURFACES.
2. REMOVE AREA OF EXISTING FLOOR ASSEMBLY
3. REMOVE PORTION OF EXISTING PARTITION / WALL ASSEMBLY
4. REMOVE EXISTING WINDOW SYSTEM, INCLUDING BUT NOT LIMITED TO BLOCKING, CAULKING. REMOVE INTERIOR TRIM, FRAME, SILL & APRON.
5. REMOVE EXISTING DOOR SYSTEM, INCLUDING BUT NOT LIMITED TO BLOCKING, CAULKING & ASSOCIATED HARDWARE; PREPARE FOR INFILL CONSTRUCTION
6. REMOVE STAIR OR RAMP, LANDINGS & RAILINGS
7. REMOVE CASEWORK AND ASSOCIATED BLOCKING
8. REMOVE EXISTING FINISH FLOORING DOWN TO SUBFLOOR, CLEAR OF GLUE OR MASTICS OR PREPARE FOR NEW FLOORING, REMOVE ALL FLOOR FINISHES AND FLOOR COVERINGS THROUGHOUT
9. REMOVE EXISTING INTERIOR WALL COVERINGS, INC DRYWALL / PLASTER & FURRING
10. REMOVE EXISTING CEILING SYSTEMS COMPLETELY DOWN TO EXISTING STRUCTURE; REMOVE CEILING FIXTURES & RELATED HARDWARE
11. REMOVE EXISTING ROOFING SYSTEMS DOWN TO EXISTING SHEATHING
12. REMOVE EXISTING PORCH STRUCTURE INCLUDING ROOF FRAMING, ROOFING AND COLUMNS

DEMO KEY

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- REMOVE AREA OF FLOOR SLAB OR FRAMING
- REMOVE SUSPENDED CEILING STRUCTURE
- EXISTING ATTIC FLOOR FRAMING TO REMAIN
- EXISTING FLOOR ELEVATION

DEMOLITION / REMOVAL NOTES:

A. THE INTENT OF DEMOLITION IS TO DEMOLISH AND REMOVE FROM THE SITE. ALL EXISTING ELEMENTS NECESSARY TO CONSTRUCT NEW WORK INDICATED IN THE CONSTRUCTION DOCUMENTS. THE ITEMS NOTED ON THIS DRAWING ARE MEANT TO REPRESENT TYPICAL ITEMS IN THIS BUILDING WHICH ARE TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS NOT INDICATED OR NOTED. ALSO COORDINATE WITH DEMOLITION PLANS & DEMOLITION ELEVATIONS FOR ADDITIONAL INFORMATION.

B. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN. AT AREAS WHERE EXISTING CONSTRUCTION IS TO BE PARTIALLY DEMOLISHED, EMPLOY APPROPRIATE TECHNIQUES TO ENSURE CLEAN CUTS AND MINIMUM DISRUPTION TO EXISTING REMAINING ADJACENT SURFACES.

C. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGED ITEMS INSIDE AND OUTSIDE OF LIMIT OF WORK LINE DUE TO CONTRACT OPERATIONS.

D. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEBRIS AND FURNISHINGS THROUGHOUT THE BUILDING. NOT ALL REFUSE AND DEBRIS HAVE NECESSARILY BEEN, NOR WILL BE, REMOVED BY THE OWNER PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL REFUSE AND DEBRIS THROUGHOUT BUILDING.

E. REMOVE CONSTRUCTION AS SHOWN BY A DASHED LINE AND/OR DIAGONAL HATCH. COORDINATE WITH MEP AND STRUCTURAL DRAWINGS.

F. SEE M,E,P,FP SERIES DRAWINGS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DEMOLITION.

G. EXISTING FLOOR FRAMING TO REMAIN IS TO BE CONTINUOUSLY SUPPORTED. NOTIFY ARCHITECT AND ENGINEER OF RECORD IF LOAD BEARING ELEMENTS DO NOT MATCH ACTUAL FIELD CONDITIONS. PROVIDE SHORING FOR NEW OR ENLARGED MASONRY WALL OPENINGS.

H. REMOVE ANY NAILS, SCREWS, FASTENERS, PROTRUDING OBJECTS ON WINDOWS AND FRAMES THAT MAY PREVENT SMOOTH COAT OF PAINT

BRICK REPLACEMENT NOTES

1. ALL NEW BRICKS TO MATCH EXISTING ADJACENT TO REMAIN IN SIZE, SHAPE, COLOR, TEXTURE, PROFILE, ETC AS CLOSE AS POSSIBLE (TYP). ALL NEW MORTAR SHALL MATCH EXISTING ADJACENT TO REMAIN IN HARDNESS, COLOR, TEXTURE, TOOLING, ETC (TYP). NEW MORTAR MUST BE SOFTER THAN EXISTING BRICK.
2. HORIZONTAL MORTAR JOINTS MAY BE SAWCUT. A TUCK-POINTER'S TOOTHING CHISEL SHOULD BE USED TO CUT OUT THE MORTAR IN VERTICAL JOINTS WHICH SURROUNDS THE AFFECTED UNITS. FOR EASE OF REMOVAL, THE UNITS TO BE REMOVED CAN BE BROKEN. ONCE THE UNITS ARE REMOVED, ALL OF THE OLD MORTAR SHOULD BE CAREFULLY CHISELED OUT AND ALL DUST AND DEBRIS SHOULD BE SWEPT OUT WITH A BRUSH. IF THE UNITS ARE LOCATED IN THE EXTERIOR WYTHE OF A CAVITY WALL, CARE MUST BE EXERCISED NOT TO ALLOW DEBRIS TO FALL INTO THE CAVITY.
3. PROVIDE RELIEF CUTS THROUGH THE MIDDLE OF THE EXISTING DAMAGED BRICK MASONRY UNIT.
4. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AS REQUIRED
5. REMOVE EXISTING BRICK MASONRY TO MINIMUM OF HALF THE EXISTING DEPTH (4" ± V.I.F.). REMOVE ALL DUST AND DEBRIS FROM THE AREA. CONTRACTOR RESPONSIBLE NOT TO DAMAGE INTERIOR SIDE OF BRICK MASONRY DURING REMOVAL & REPLACEMENT OF BRICK MASONRY UNITS.
6. NOTIFY ARCHITECT OF ANY AND ALL REINFORCEMENT ENCOUNTERED IMMEDIATELY. MINIMUM FOR EXPOSED REINFORCEMENT - WIRE BRUSH AND CLEAN AND APPLY CORROSION INHIBITOR TO ALL EXPOSED SIDES. STRENGTHENING OF EXISTING REINFORCEMENT WILL BE DETERMINED ON A CASE BY CASE BASIS.
7. BRICK SURFACES IN THE WALL SHOULD BE DAMPENED BEFORE THE NEW UNITS ARE PLACED BUT THE MASONRY SHOULD ABSORB ALL SURFACE MOISTURE TO ENSURE A GOOD BOND. THE APPROPRIATE SURFACES OF THE SURROUNDING BRICKWORK AND THE REPLACEMENT BRICK SHOULD BE BUTTERED WITH MORTAR. IF CELL(S) IN BRICK UNIT WERE SOLID-FILLED WITH MORTAR, THEN THE NEW SHALL BE SOLID-FILLED WITH MORTAR. THE REPLACEMENT BRICK SHOULD BE CENTERED IN THE OPENING AND PRESSED INTO POSITION. THE EXCESS MORTAR SHOULD BE REMOVED WITH A TROWEL. POINTING AROUND THE REPLACEMENT BRICK WILL HELP TO ENSURE FULL HEAD AND BED JOINTS. WHEN THE MORTAR BECOMES "THUMBPRINT" HARD, THE JOINTS SHOULD BE TOOLED TO MATCH THE ORIGINAL PROFILE.

PHASING:

EXISTING: DEMO: RESTORATION: NEW CONSTRUCTION:

2 Phasing Working View - Existing Kit of Parts
1/4" = 1'-0"

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

DEMO NOTES & LEGEND

D-100

3/11/2022 5:41:17 PM

DEMO ELEVATION LEGEND

PORTION OF MASONRY WALL TO BE DEOMOLISHED

DEMO GENERAL KEY NOTES

1. REMOVE EXISTING WALL OR PARTITION INCLUDING SILL PLATE, TOP PLATES, BLOCKING AND ANCHORS TO ADJACENT SURFACES.
2. REMOVE AREA OF EXISTING FLOOR ASSEMBLY
3. REMOVE PORTION OF EXISTING PARTITION / WALL ASSEMBLY
4. REMOVE EXISTING WINDOW SYSTEM, INCLUDING BUT NOT LIMITED TO BLOCKING, CAULKING. REMOVE INTERIOR TRIM, FRAME, SILL & APRON.
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6. REMOVE STAIR OR RAMP, LANDINGS & RAILINGS
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9. REMOVE EXISTING INTERIOR WALL COVERINGS, INC DRYWALL / PLASTER & FURRING
10. REMOVE EXISTING CEILING SYSTEMS COMPLETELY DOWN TO EXISTING STRUCTURE; REMOVE CEILING FIXTURES & RELATED HARDWARE
11. REMOVE EXISTING ROOFING SYSTEMS DOWN TO EXISTING SHEATHING
12. REMOVE EXISTING PORCH STRUCTURE INCLUDING ROOF FRAMING, ROOFING AND COLUMNS

DEMO KEY

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- REMOVE AREA OF FLOOR SLAB OR FRAMING
- REMOVE SUSPENDED CEILING STRUCTURE
- EXISTING ATTIC FLOOR FRAMING TO REMAIN
- EXISTING FLOOR ELEVATION

DEMOLITION / REMOVAL NOTES:

A. THE INTENT OF DEMOLITION IS TO DEMOLISH AND REMOVE FROM THE SITE. ALL EXISTING ELEMENTS NECESSARY TO CONSTRUCT NEW WORK INDICATED IN THE CONSTRUCTION DOCUMENTS. THE ITEMS NOTED ON THIS DRAWING ARE MEANT TO REPRESENT TYPICAL ITEMS IN THIS BUILDING WHICH ARE TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS NOT INDICATED OR NOTED. ALSO COORDINATE WITH DEMOLITION PLANS & DEMOLITION ELEVATIONS FOR ADDITIONAL INFORMATION.

B. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN. AT AREAS WHERE EXISTING CONSTRUCTION IS TO BE PARTIALLY DEMOLISHED, EMPLOY APPROPRIATE TECHNIQUES TO ENSURE CLEAN CUTS AND MINIMUM DISRUPTION TO EXISTING REMAINING ADJACENT SURFACES.

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F. SEE M,E,P,FP SERIES DRAWINGS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DEMOLITION.

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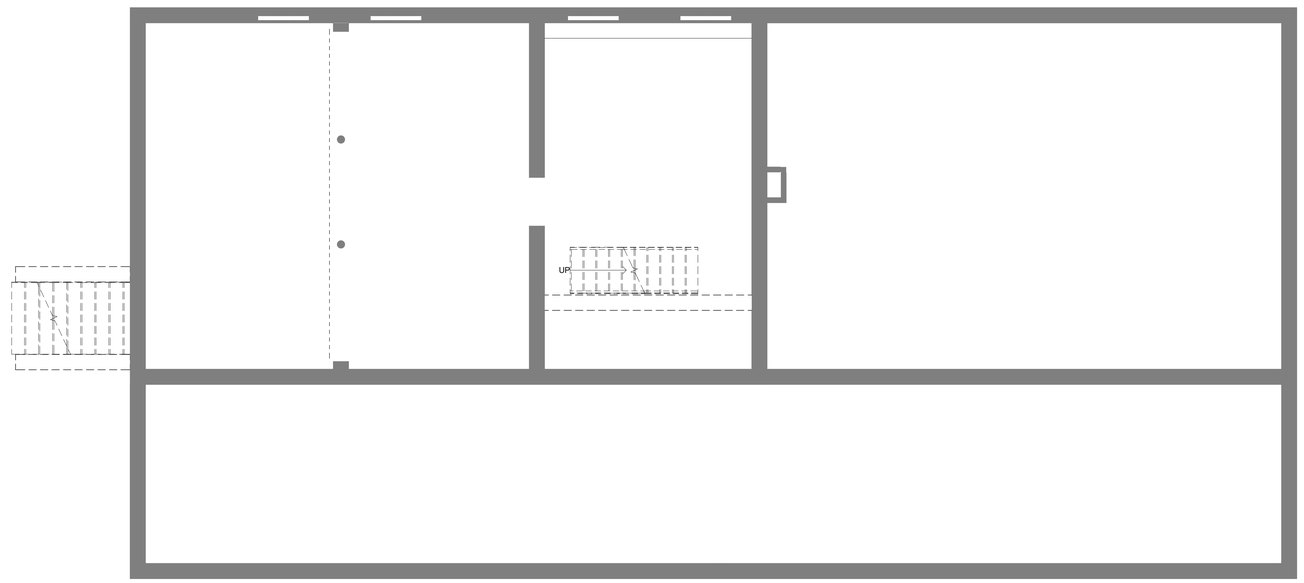
H. REMOVE ANY NAILS, SCREWS, FASTENERS, PROTRUDING OBJECTS ON WINDOWS AND FRAMES THAT MAY PREVENT SMOOTH COAT OF PAINT



1 BASEMENT DEMO PLAN
1/4" = 1'-0"

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

BASEMENT - DEMO PLAN

D-101

3/11/2022 5:41:18 PM

DEMO GENERAL KEY NOTES

1. REMOVE EXISTING WALL OR PARTITION INCLUDING SILL PLATE, TOP PLATES, BLOCKING AND ANCHORS TO ADJACENT SURFACES.
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12. REMOVE EXISTING PORCH STRUCTURE INCLUDING ROOF FRAMING, ROOFING AND COLUMNS

DEMO KEY

- EXISTING WALL TO REMAIN
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- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
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- EXISTING ATTIC FLOOR FRAMING TO REMAIN
- EXISTING FLOOR ELEVATION

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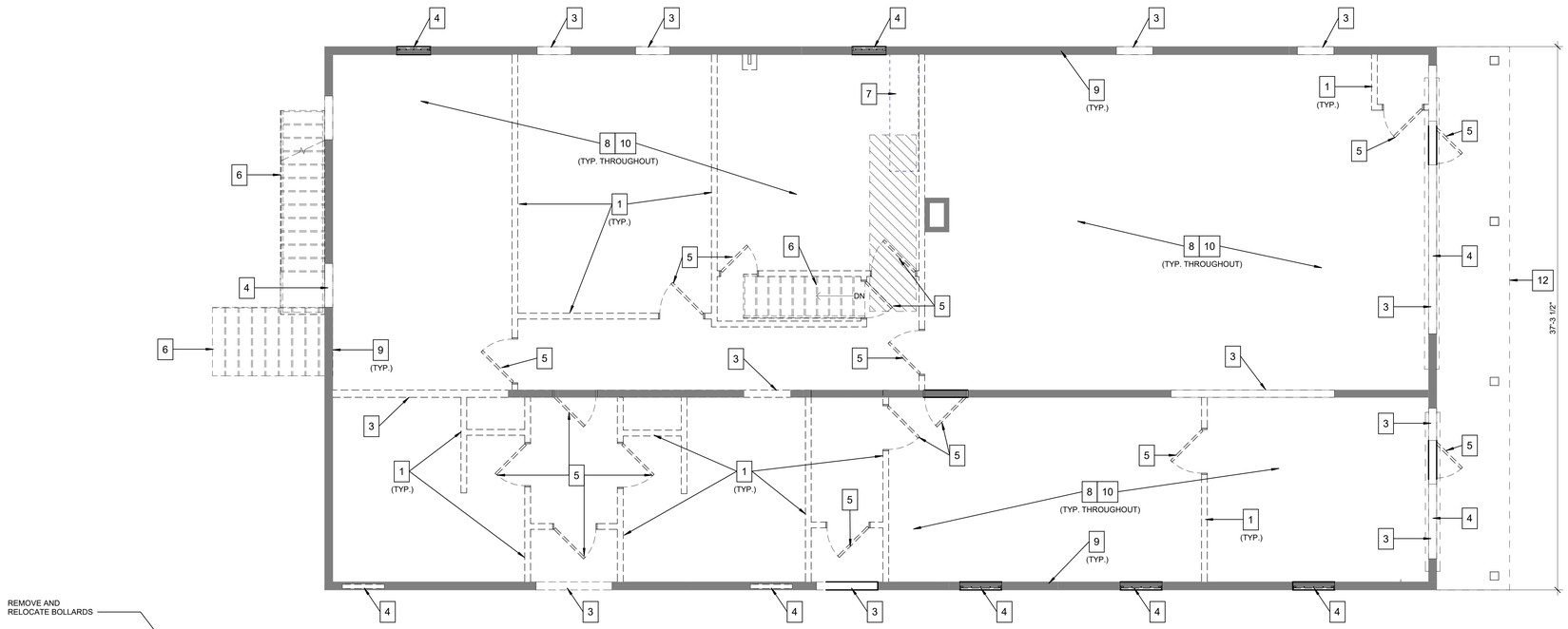

1 1ST FLOOR - DEMO PLAN
1/4" = 1'-0"

3/11/2022 5:41:19 PM

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT
E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

FIRST FLOOR - DEMO PLAN

D-102

DEMO ELEVATION LEGEND

PORTION OF MASONRY WALL TO BE DEOMOLISHED

DEMO GENERAL KEY NOTES

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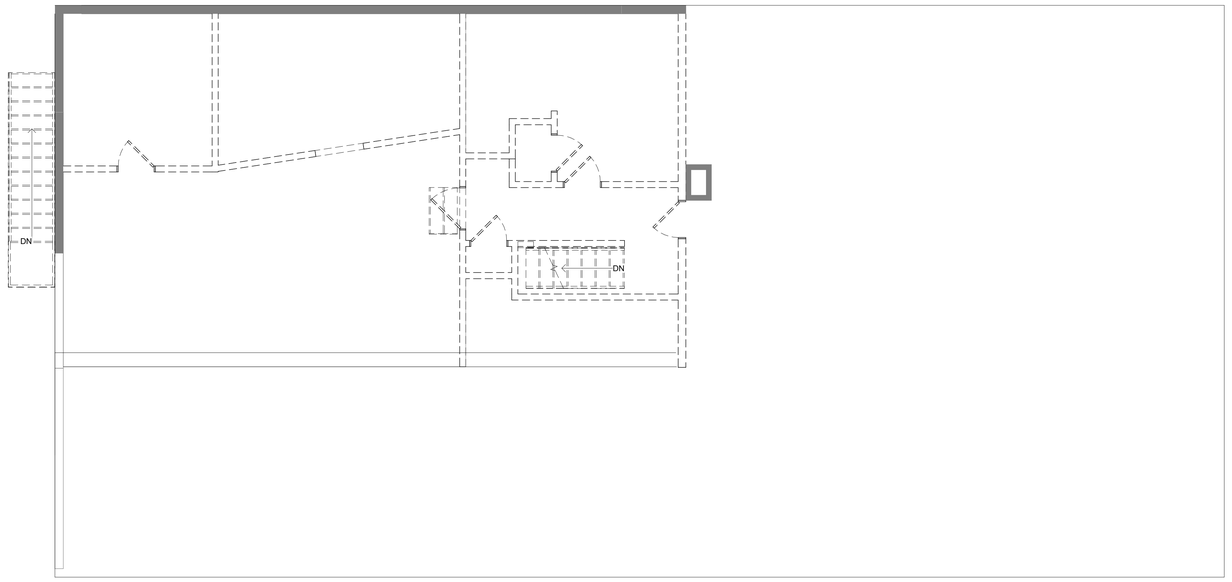


1 2ND FLOOR- DEMO PLAN
1/4" = 1'-0"

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

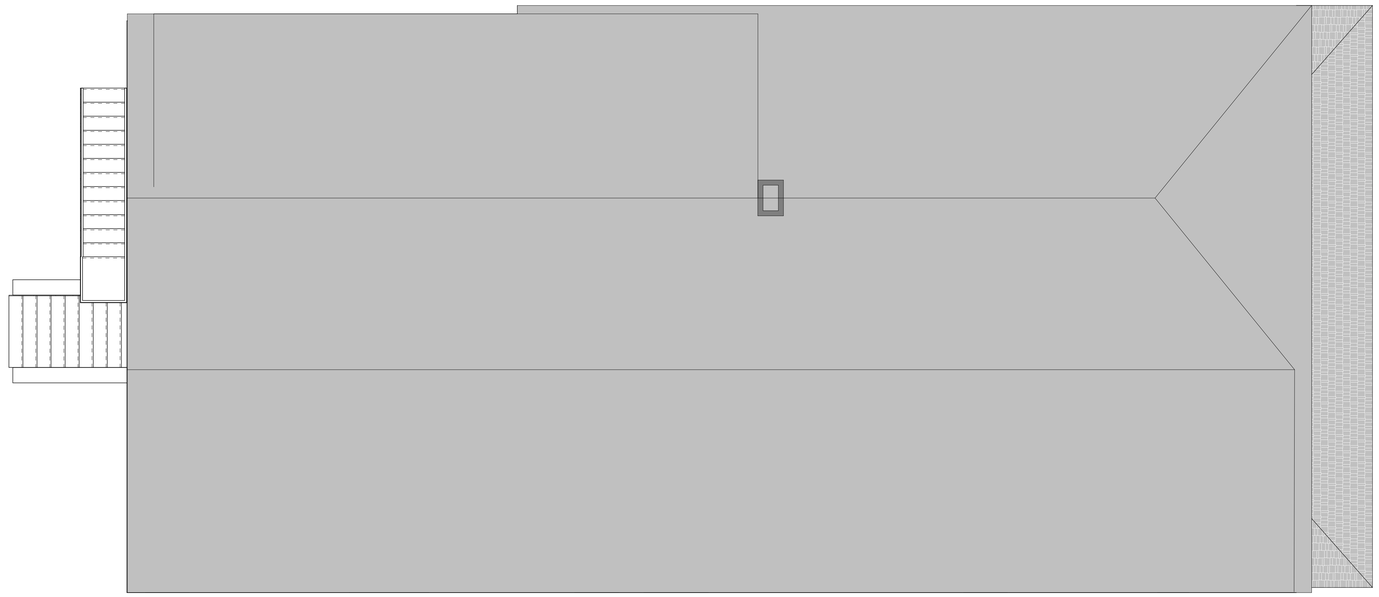
PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

SECOND FLOOR - DEMO PLAN

D-103

3/11/2022 5:41:20 PM



1 DEMO ROOF PLAN
1/4" = 1'-0"

3/11/2022 5:41:21 PM

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

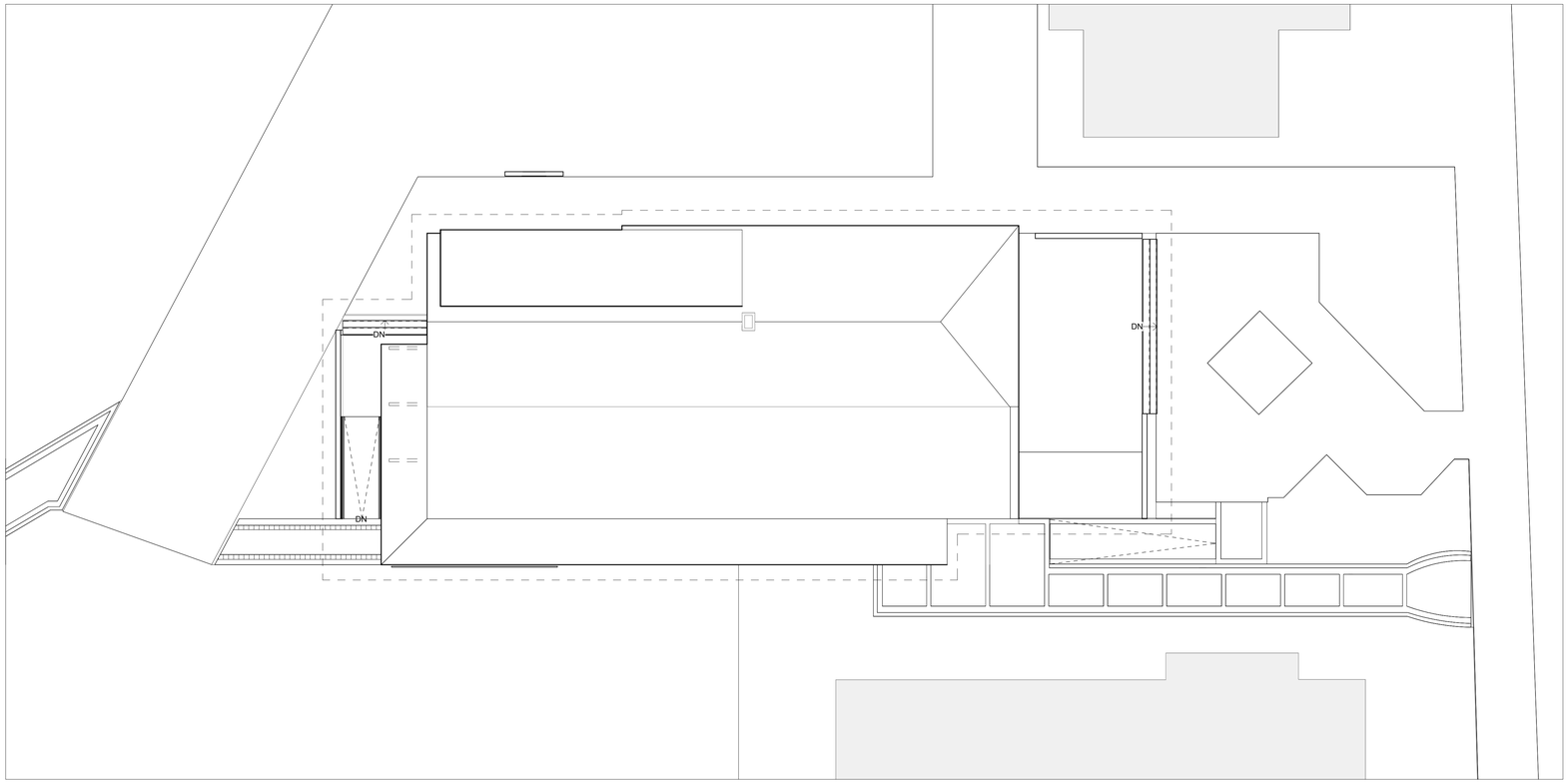
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

DEMO ROOF PLAN

D-104



1 SITE PLAN
1/8" = 1'-0"

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

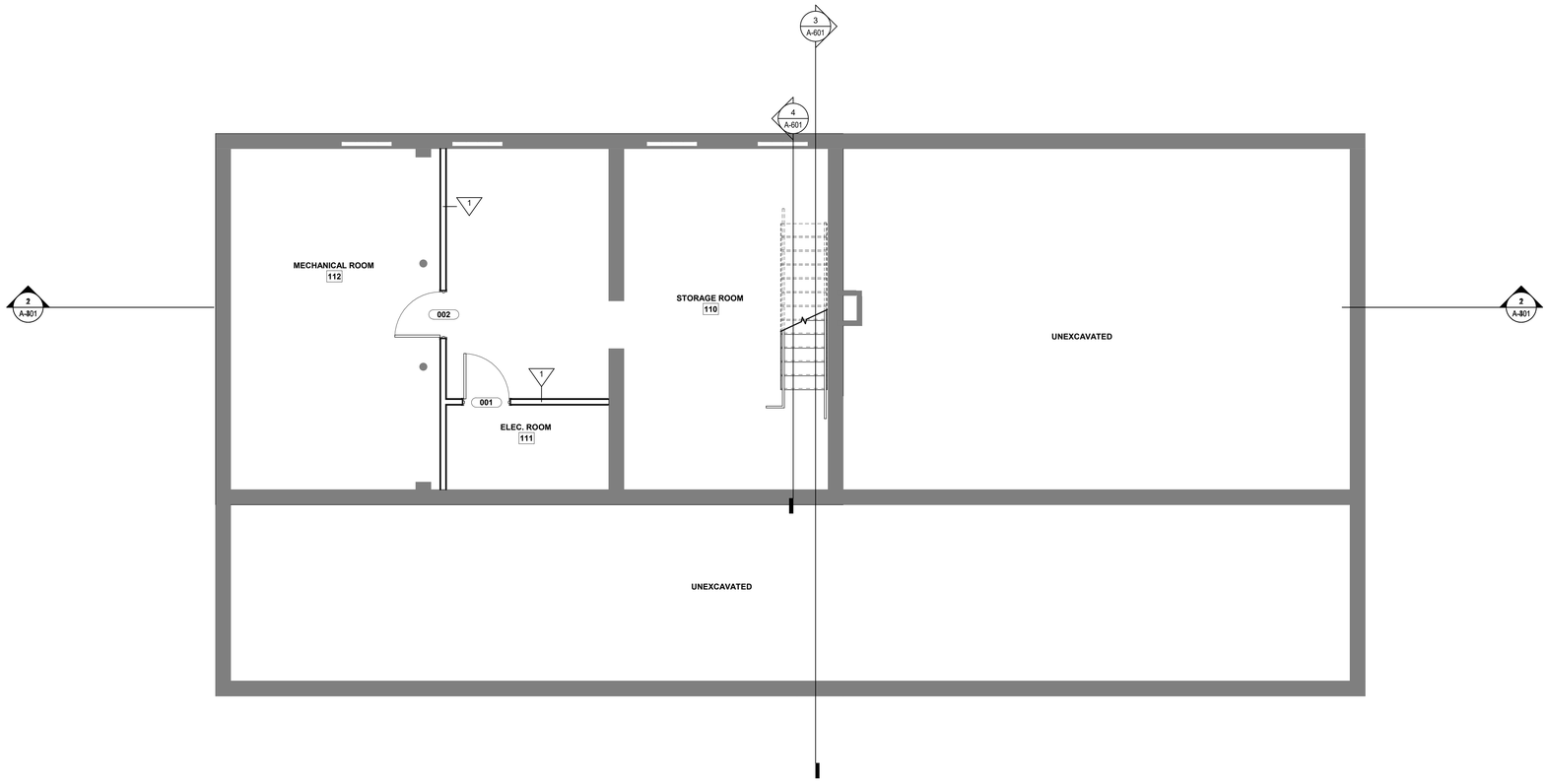
SITE PLAN

A-100

3/11/2022 5:40:34 PM

GENERAL PLAN NOTES

1. ALL CMU WALLS ARE DIMENSIONED FACE TO FACE.
2. ALL STUD WALLS ARE DIMENSIONED CENTERLINE TO CENTERLINE OF STUD.
3. ALL EXTERIOR WALLS ARE DIMENSIONED TO EXTERIOR FACE OF MASONRY OR EXTERIOR FACE OF STUD.
4. ALL OPENINGS WITHIN A MASONRY WALL ARE DIMENSIONED TO THE MASONRY OPENING.
5. ALL OPENINGS WITHIN A STUD WALL ARE DIMENSIONED TO CENTERLINE OF OPENING.
6. COORDINATE ALL FOOTINGS, PIERS, SLABS, AND DETAILS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
7. UNLESS OTHERWISE NOTED, INTERIOR DIMENSIONS ARE TO CENTERLINE OF STUD.
8. INTERIOR DIMENSIONS TO DEMISING PARTITIONS ARE TO CENTERLINE OF OVERALL PARTITION.
9. INTERIOR DIMENSIONS TO THE EXTERIOR WALL ARE TO THE OUTSIDE FACE OF STUD/OUTSIDE FACE OF FOUNDATION.
10. REFER TO A-900's FOR FINISH FLOOR AND REFLECTED CEILING PLANS.



1 BASEMENT FLOOR
1/4" = 1'-0"

0 4" 8" 16"

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

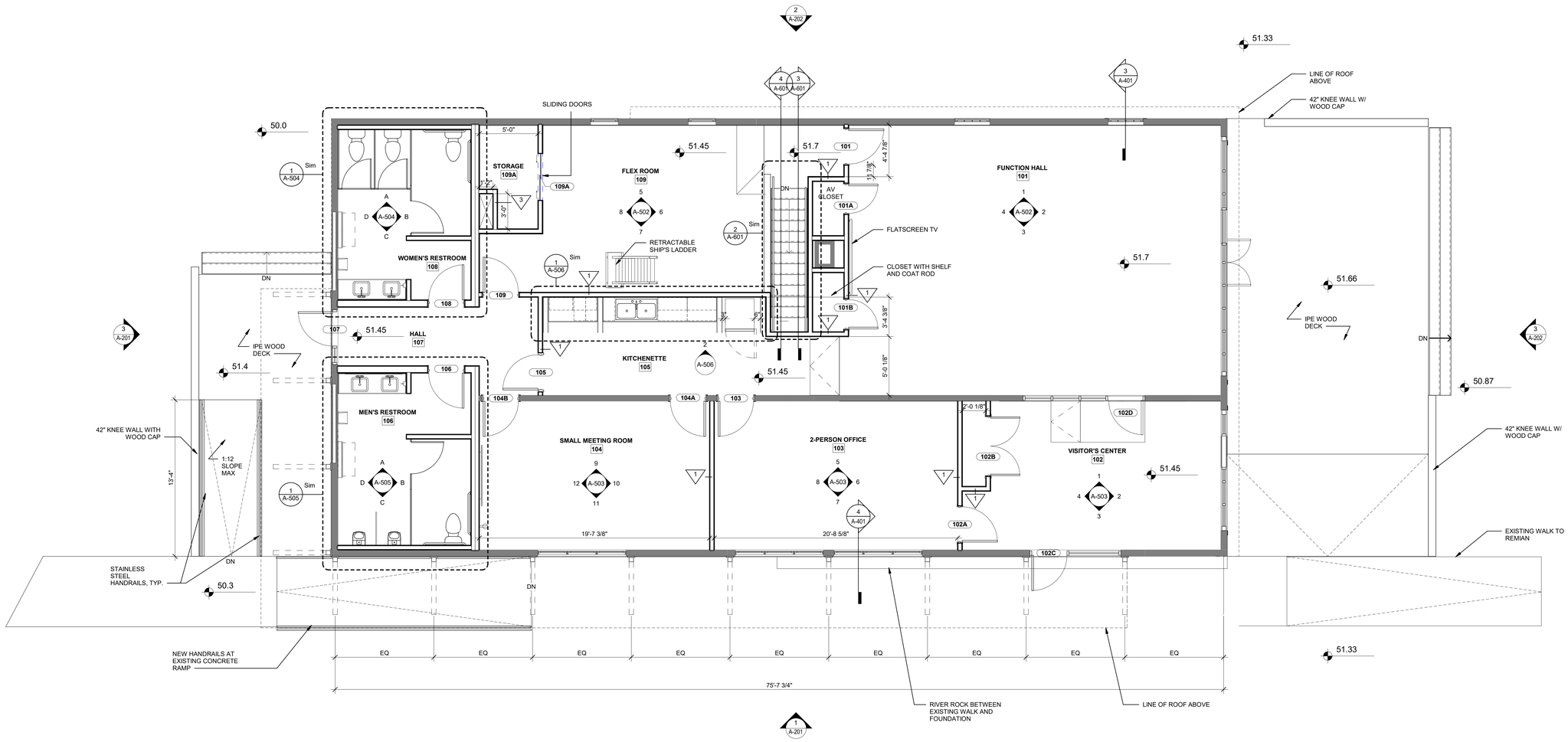
BASEMENT PLAN

A-101

3/11/2022 5:40:35 PM

GENERAL PLAN NOTES

1. ALL CMU WALLS ARE DIMENSIONED FACE TO FACE.
2. ALL STUD WALLS ARE DIMENSIONED CENTERLINE TO CENTERLINE OF STUD.
3. ALL EXTERIOR WALLS ARE DIMENSIONED TO EXTERIOR FACE OF MASONRY OR EXTERIOR FACE OF STUD.
4. ALL OPENINGS WITHIN A MASONRY WALL ARE DIMENSIONED TO THE MASONRY OPENING.
5. ALL OPENINGS WITHIN A STUD WALL ARE DIMENSIONED TO CENTERLINE OF OPENING.
6. COORDINATE ALL FOOTINGS, PIERS, SLABS, AND DETAILS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
7. UNLESS OTHERWISE NOTED, INTERIOR DIMENSIONS ARE TO CENTERLINE OF STUD.
8. INTERIOR DIMENSIONS TO DEMISING PARTITIONS ARE TO CENTERLINE OF OVERALL PARTITION.
9. INTERIOR DIMENSIONS TO THE EXTERIOR WALL ARE TO THE OUTSIDE FACE OF STUD/OUTSIDE FACE OF FOUNDATION.
10. REFER TO A-900's FOR FINISH FLOOR AND REFLECTED CEILING PLANS.



1 1ST FLOOR PLAN
1/4" = 1'-0"

OLD FIREHOUSE

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CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION
1	2022-02-25	100% CD

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

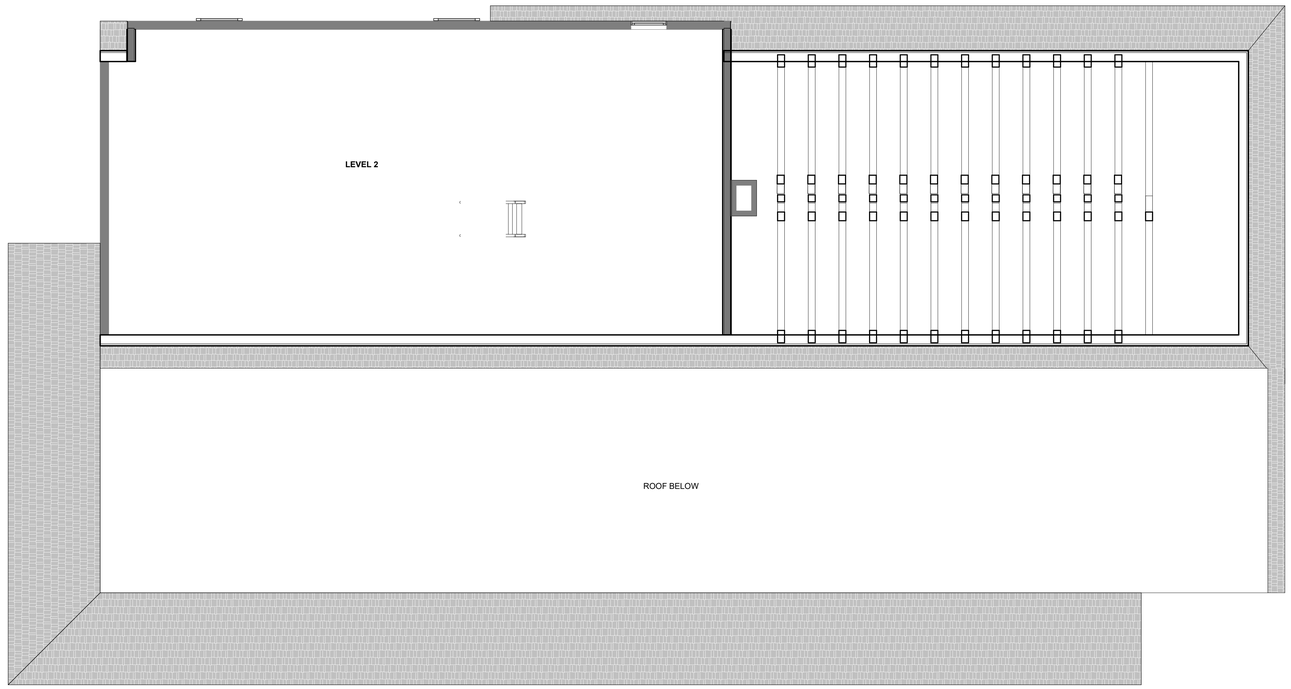
FIRST FLOOR PLAN

A-102

3/11/2022 5:40:36 PM

GENERAL PLAN NOTES

1. ALL CMU WALLS ARE DIMENSIONED FACE TO FACE.
2. ALL STUD WALLS ARE DIMENSIONED CENTERLINE TO CENTERLINE OF STUD.
3. ALL EXTERIOR WALLS ARE DIMENSIONED TO EXTERIOR FACE OF MASONRY OR EXTERIOR FACE OF STUD.
4. ALL OPENINGS WITHIN A MASONRY WALL ARE DIMENSIONED TO THE MASONRY OPENING.
5. ALL OPENINGS WITHIN A STUD WALL ARE DIMENSIONED TO CENTERLINE OF OPENING.
6. COORDINATE ALL FOOTINGS, PIERS, SLABS, AND DETAILS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
7. UNLESS OTHERWISE NOTED, INTERIOR DIMENSIONS ARE TO CENTERLINE OF STUD.
8. INTERIOR DIMENSIONS TO DEMISING PARTITIONS ARE TO CENTERLINE OF OVERALL PARTITION.
9. INTERIOR DIMENSIONS TO THE EXTERIOR WALL ARE TO THE OUTSIDE FACE OF STUD/OUTSIDE FACE OF FOUNDATION.
10. REFER TO A-900's FOR FINISH FLOOR AND REFLECTED CEILING PLANS.



1 2ND FLOOR PLAN
1/4" = 1'-0"

0 4" 8" 16"

3/11/2022 5:40:38 PM

OLD FIREHOUSE

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STAMP

KEY PLAN

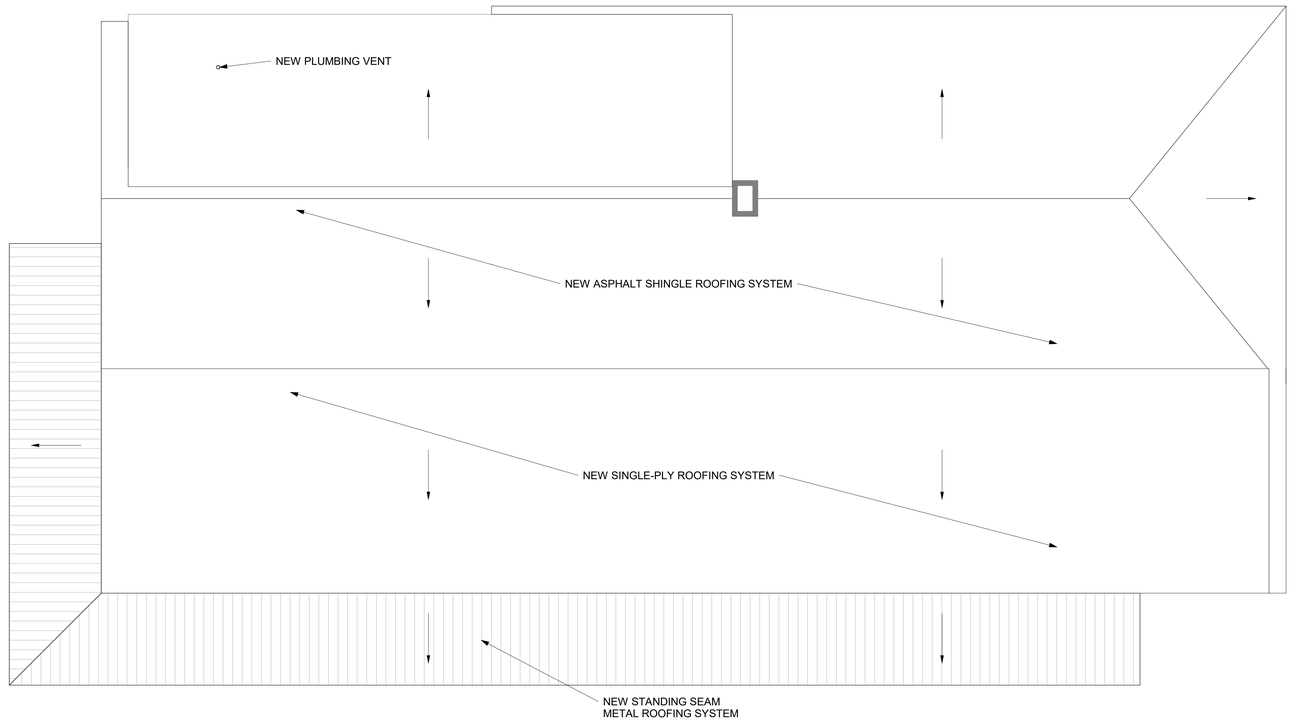
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

SECOND FLOOR PLAN

A-103



1 ROOF PLAN
1/4" = 1'-0"

0 4' 8' 16'

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
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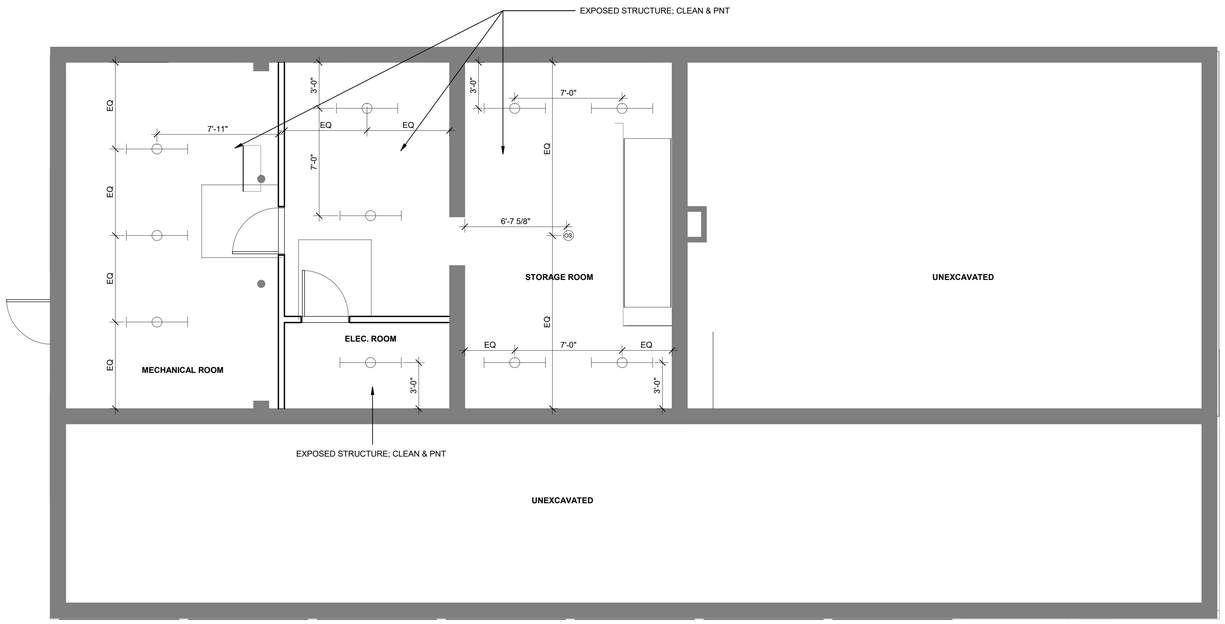
SHEET TITLE

ROOF PLAN

A-104

3/11/2022 5:40:40 PM



2 BASEMENT RCP
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

D4	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
D4H	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
DW	◎	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
LP8		PENDANT DIRECT ONLY LINEAR FIXTURE COORDINATE W/ ELECTRICAL DWGS
LR6		RECESSED DIRECT ONLY LINEAR FIXTURE COORDINATE W/ ELECTRICAL DWGS
P1	○	STEM MOUNTED PENDANT SCHOOLHOUSE FIXTURE COORDINATE W/ ELECTRICAL DWGS
SW	▭	EXTERIOR WALL SCONCE WITH DIRECT AND INDIRECT DISTRIBUTION COORDINATE W/ ELECTRICAL DWGS
ST	▭	STATIC WHITE STEP LIGHT RATED FOR WET LOCATIONS COORDINATE W/ ELECTRICAL DWGS
T4		SURFACE T-GRID MOUNTED FIXTURE COORDINATE W/ ELECTRICAL DWGS
U4	○	SURFACE MOUNTED 4-FT STRIP FIXTURE COORDINATE W/ ELECTRICAL DWGS
UC	▭	UNDER CABINET FIXTURE COORDINATE W/ ELECTRICAL DWGS
DS		SURFACE MOUNTED OCCUPANCY SENSOR COORDINATE W/ ELECTRICAL DWGS
VS		SURFACE MOUNTED VACCANCY SENSOR COORDINATE W/ ELECTRICAL DWGS
		2' x 2' ACT CEILING

*SEE ELECTRICAL & INTERIOR DESIGN DOCUMENTS FOR ALL OTHER COMMON SPACE LIGHTING FIXTURES

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

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101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

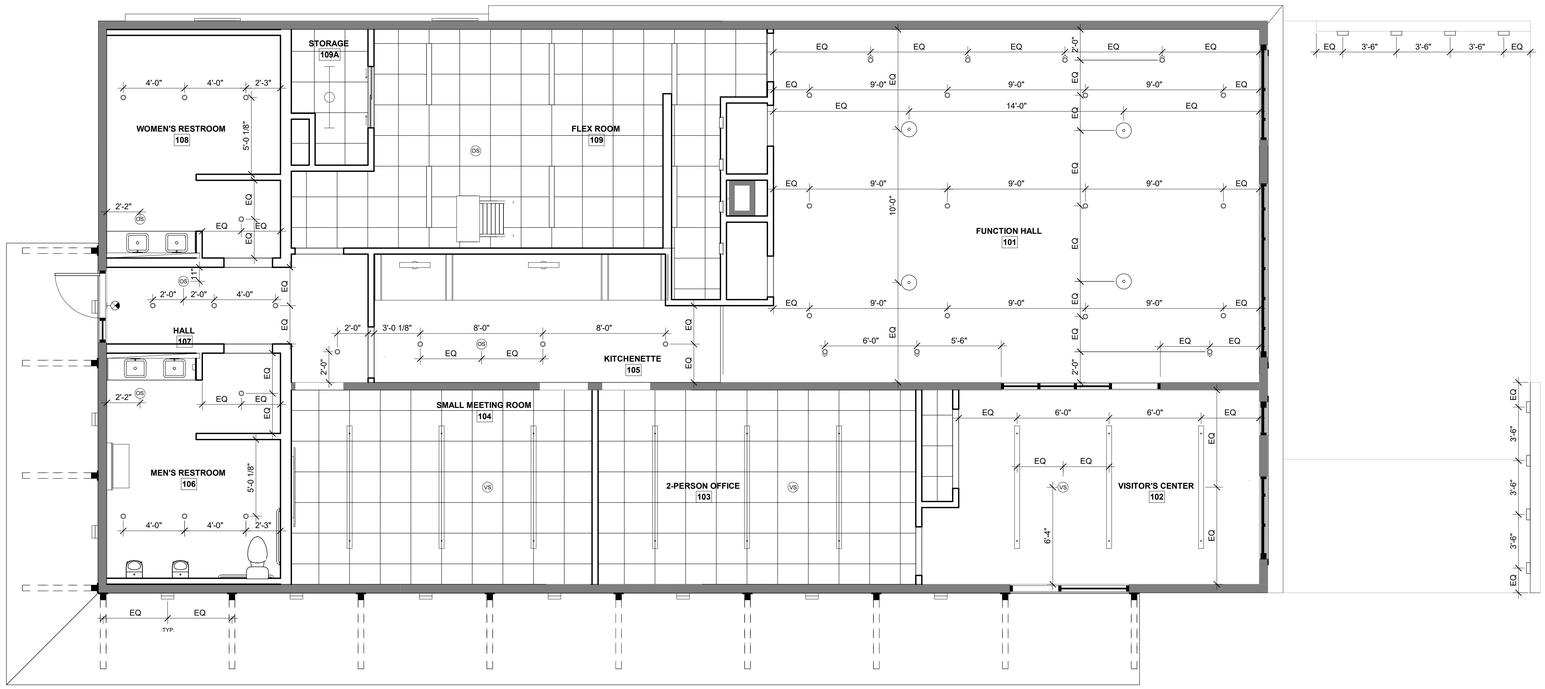
PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

BASEMENT RCP

A-105

3/11/2022 5:40:41 PM



1 LEVEL 1 RCP
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

D4	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
D4H	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
DW	◎	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
LP8		PENDANT DIRECT ONLY LINEAR FIXTURE COORDINATE W/ ELECTRICAL DWGS
LR6		RECESSED DIRECT ONLY LINEAR FIXTURE COORDINATE W/ ELECTRICAL DWGS
P1	○	STEM MOUNTED PENDANT SCHOOLHOUSE FIXTURE COORDINATE W/ ELECTRICAL DWGS
SW	▭	EXTERIOR WALL SCONCE WITH DIRECT AND INDIRECT DISTRIBUTION COORDINATE W/ ELECTRICAL DWGS
ST	▭	STATIC WHITE STEP LIGHT RATED FOR WET LOCATIONS COORDINATE W/ ELECTRICAL DWGS
T4		SURFACE T-GRID MOUNTED FIXTURE COORDINATE W/ ELECTRICAL DWGS
U4	○	SURFACE MOUNTED 4-FT STRIP FIXTURE COORDINATE W/ ELECTRICAL DWGS
UC	▭	UNDER CABINET FIXTURE COORDINATE W/ ELECTRICAL DWGS
OS		SURFACE MOUNTED OCCUPANCY SENSOR COORDINATE W/ ELECTRICAL DWGS
VS		SURFACE MOUNTED VACCANCY SENSOR COORDINATE W/ ELECTRICAL DWGS
		2' x 2' ACT CEILING

*SEE ELECTRICAL & INTERIOR DESIGN DOCUMENTS FOR ALL OTHER COMMON SPACE LIGHTING FIXTURES

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

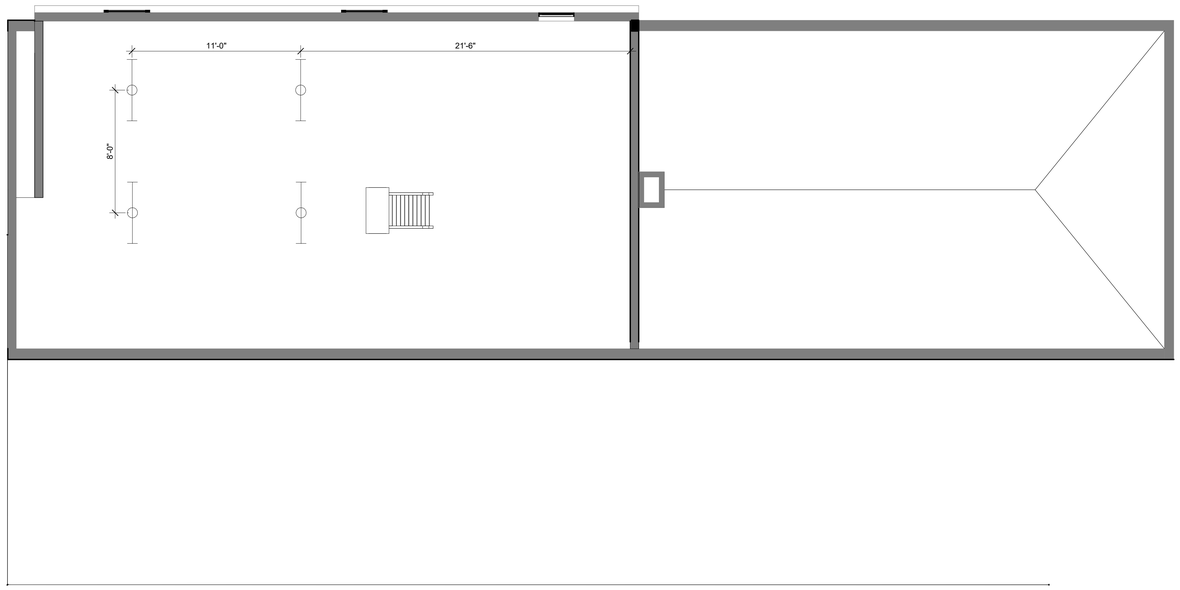
PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

FIRST FLOOR RCP

A-106

3/11/2022 5:40:43 PM



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

REFLECTED CEILING PLAN LEGEND

D4	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
D4H	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
DW	○	RECESSED 4" DOWNLIGHT COORDINATE W/ ELECTRICAL DWGS
LP8		PENDANT DIRECT ONLY LINEAR FIXTURE COORDINATE W/ ELECTRICAL DWGS
LR6		RECESSED DIRECT ONLY LINEAR FIXTURE COORDINATE W/ ELECTRICAL DWGS
P1	○	STEM MOUNTED PENDANT SCHOOLHOUSE FIXTURE COORDINATE W/ ELECTRICAL DWGS
SW		EXTERIOR WALL SCONCE WITH DIRECT AND INDIRECT DISTRIBUTION COORDINATE W/ ELECTRICAL DWGS
ST		STATIC WHITE STEP LIGHT RATED FOR WET LOCATIONS COORDINATE W/ ELECTRICAL DWGS
T4		SURFACE T-GRID MOUNTED FIXTURE COORDINATE W/ ELECTRICAL DWGS
U4		SURFACE MOUNTED 4-FT STRIP FIXTURE COORDINATE W/ ELECTRICAL DWGS
UC		UNDER CABINET FIXTURE COORDINATE W/ ELECTRICAL DWGS
OS		SURFACE MOUNTED OCCUPANCY SENSOR COORDINATE W/ ELECTRICAL DWGS
VS		SURFACE MOUNTED VACCANCY SENSOR COORDINATE W/ ELECTRICAL DWGS
		2' x 2' ACT CEILING

*SEE ELECTRICAL & INTERIOR DESIGN DOCUMENTS FOR ALL OTHER COMMON SPACE LIGHTING FIXTURES

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

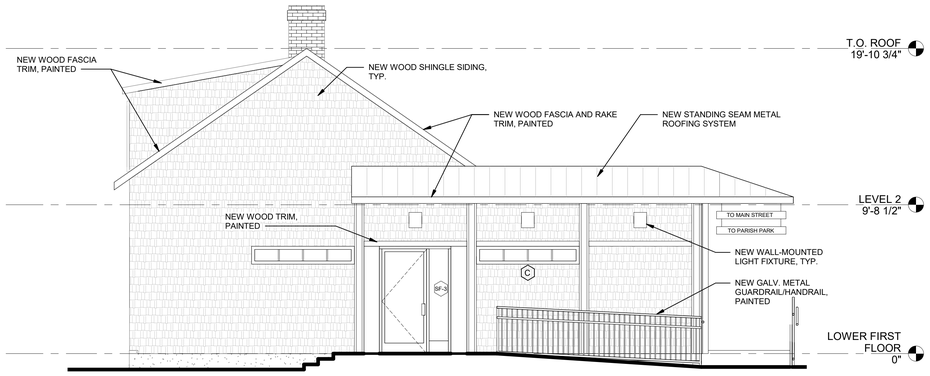
PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

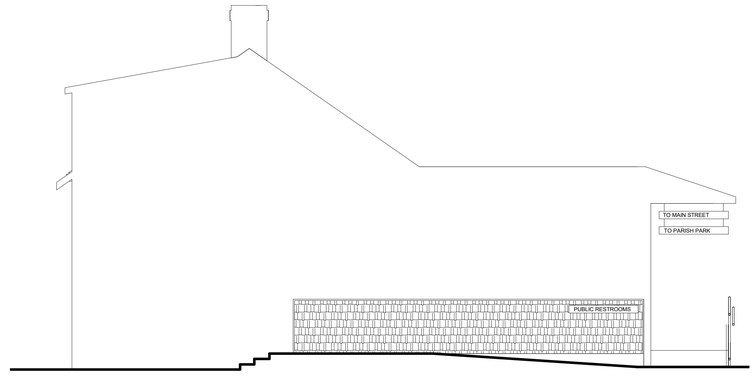
SECOND FLOOR RCP

A-107

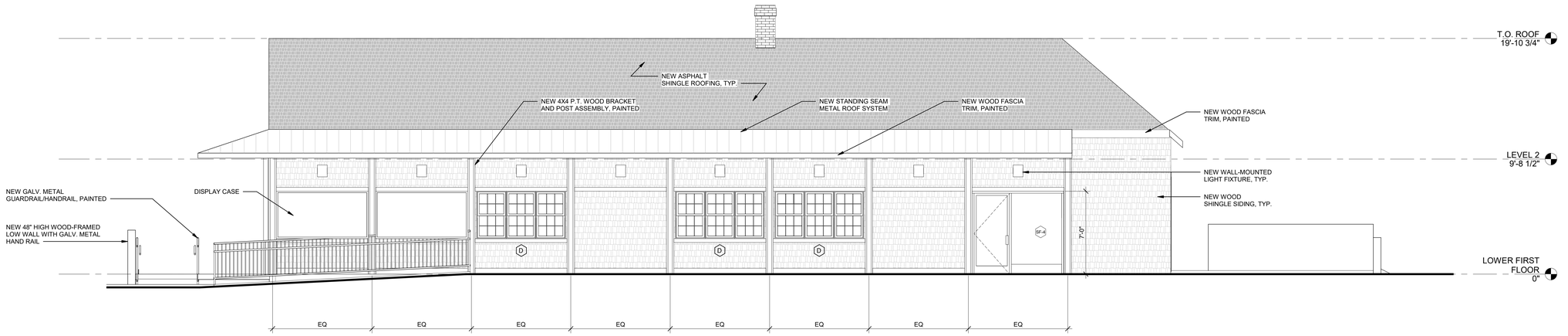
3/11/2022 5:40:43 PM



2 EAST (COVE RD) ELEVATION
1/4" = 1'-0"



3 EAST (COVE RD) PARTIAL ELEVATION
1/4" = 1'-0"



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

3/11/2022 5:40:48 PM

OLD FIREHOUSE

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TOWN OF ORLEANS , MA

ARCHITECT

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STAMP

KEY PLAN

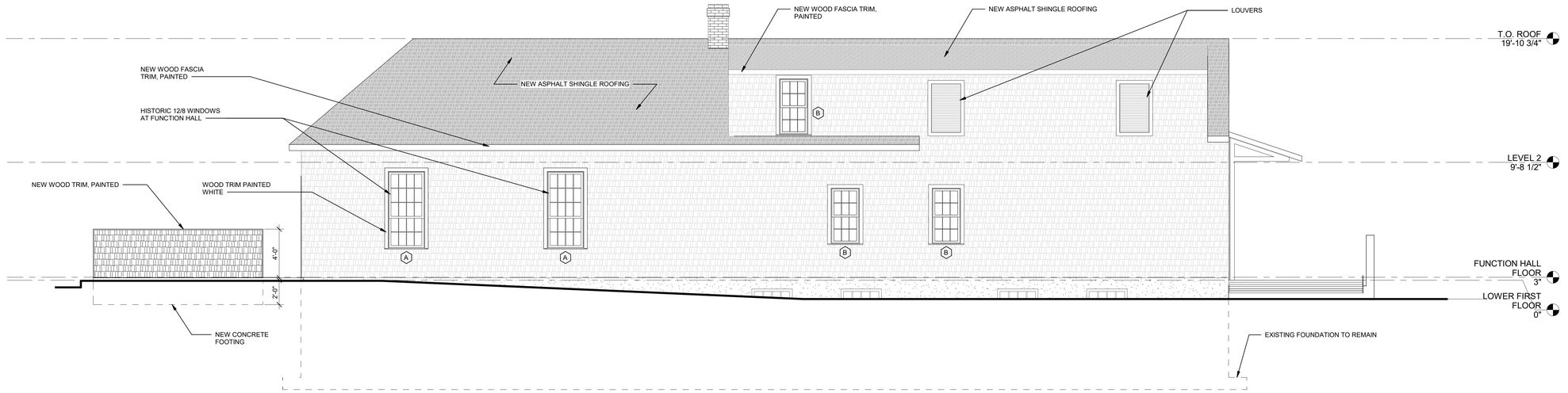
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

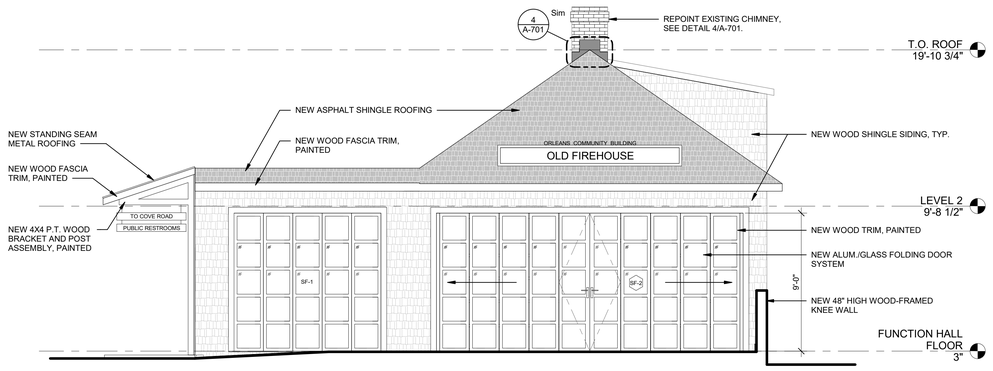
SHEET TITLE

NORTH AND WEST ELEVATIONS

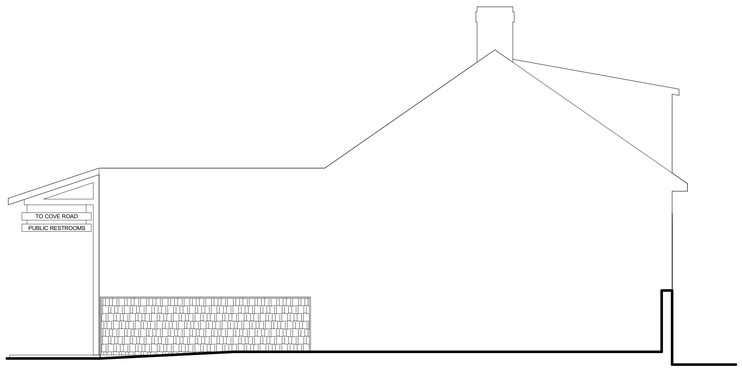
A-201



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



1 WEST (MAIN ST) ELEVATION
1/4" = 1'-0"



3 WEST (MAIN ST) PARTIAL ELEVATION
1/4" = 1'-0"

3/11/2022 5:40:52 PM

OLD FIREHOUSE

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ARCHITECT

E-ICON ARCHITECTURE
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CONSULTANT

STAMP

KEY PLAN

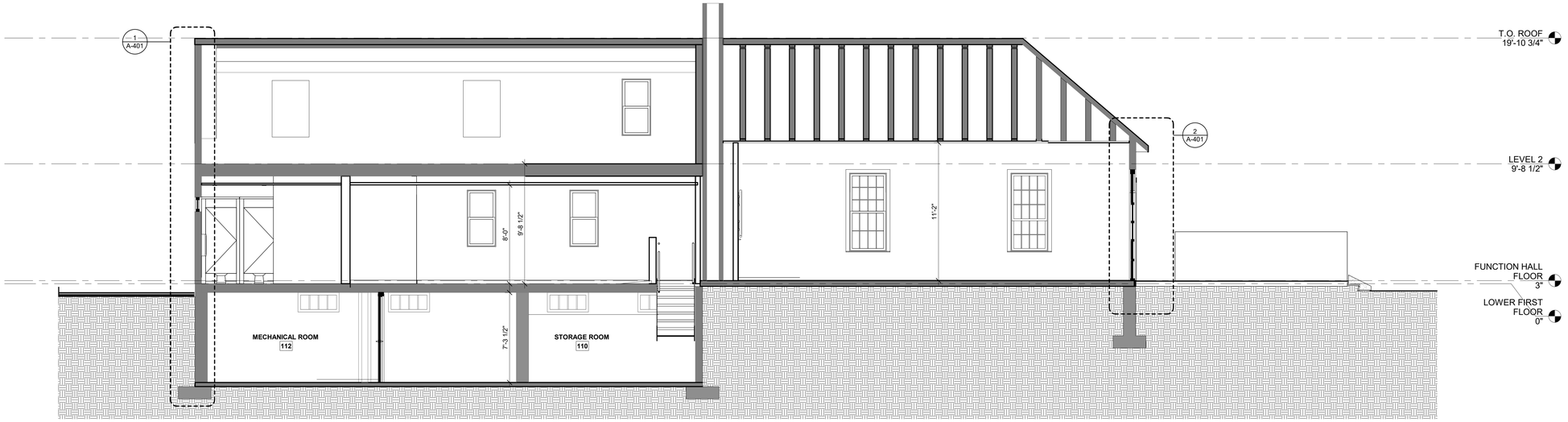
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

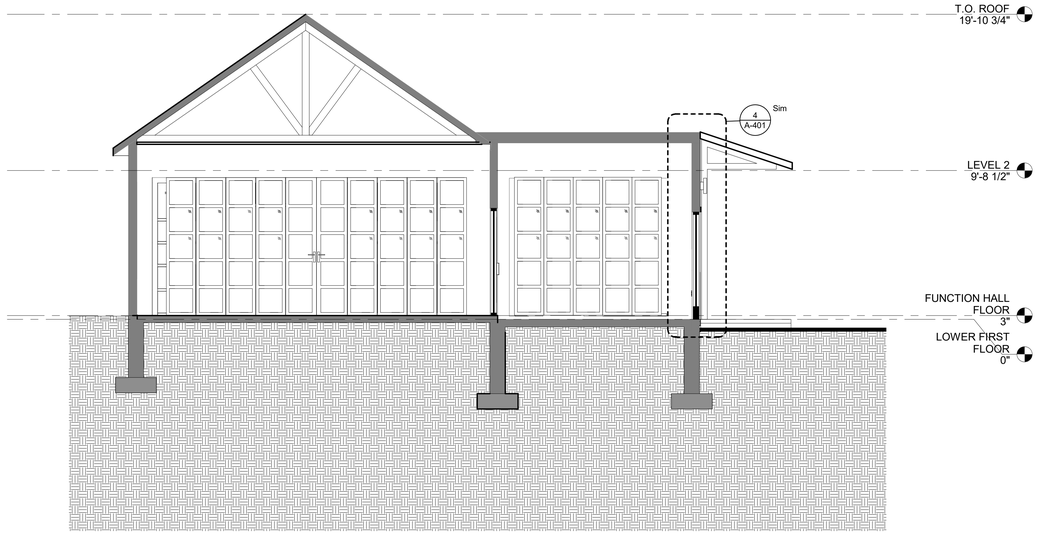
SHEET TITLE

EAST AND SOUTH ELEVATIONS

A-202



2 LONGITUDINAL SECTION
1/4" = 1'-0"



1 TRANSVERSE SECTION
1/4" = 1'-0"

3/11/2022 5:40:55 PM

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

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KEY PLAN

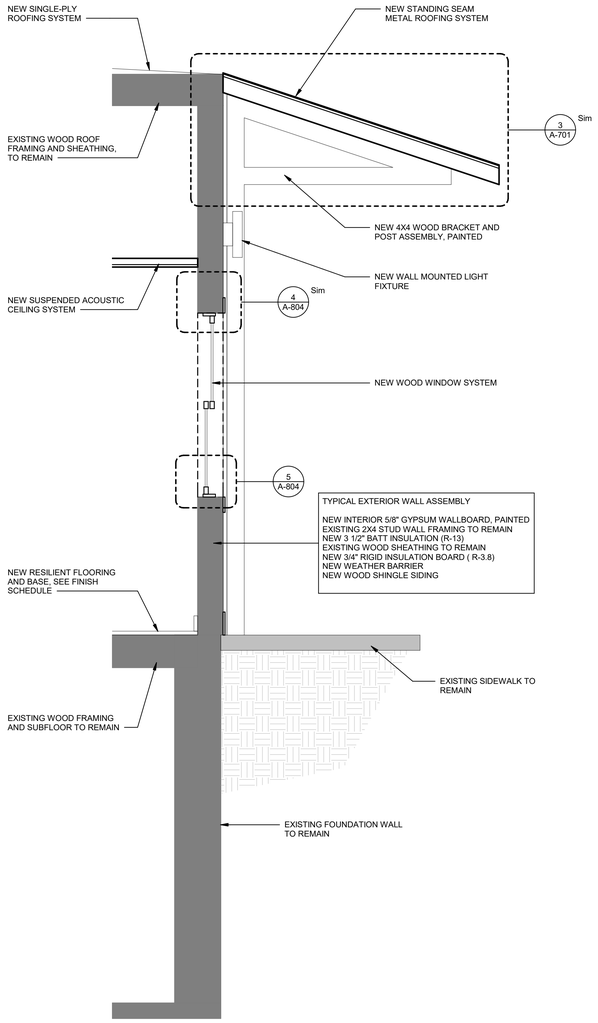
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

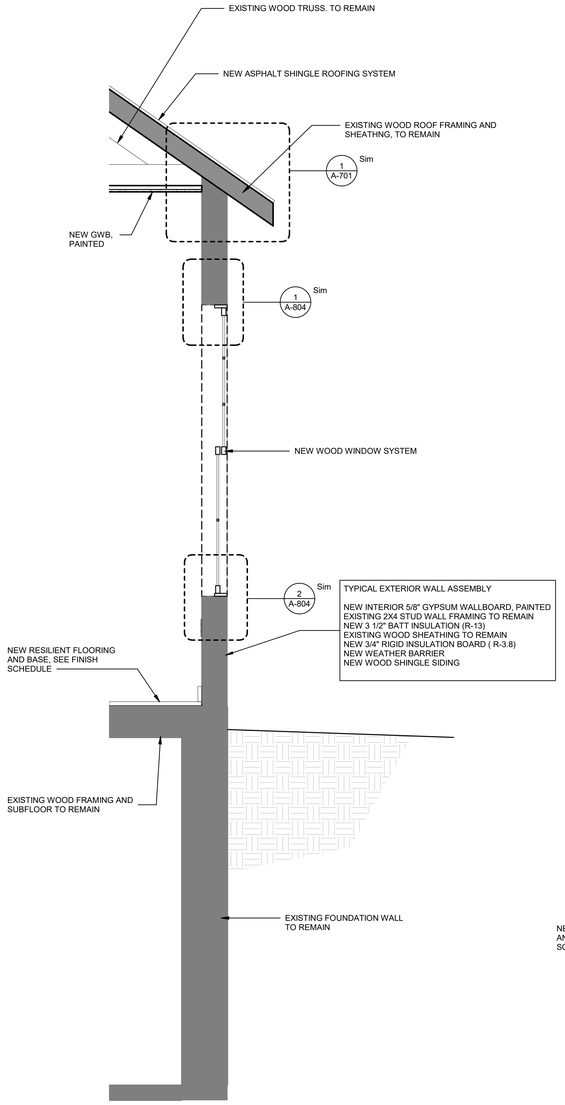
SHEET TITLE

BUILDING SECTIONS

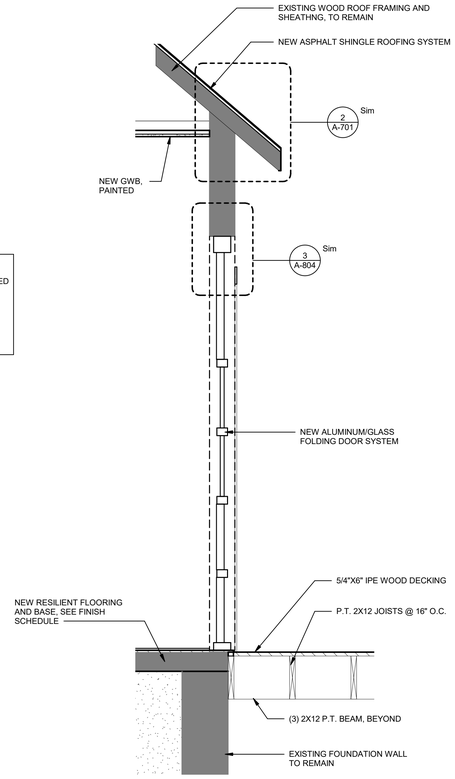
A-301



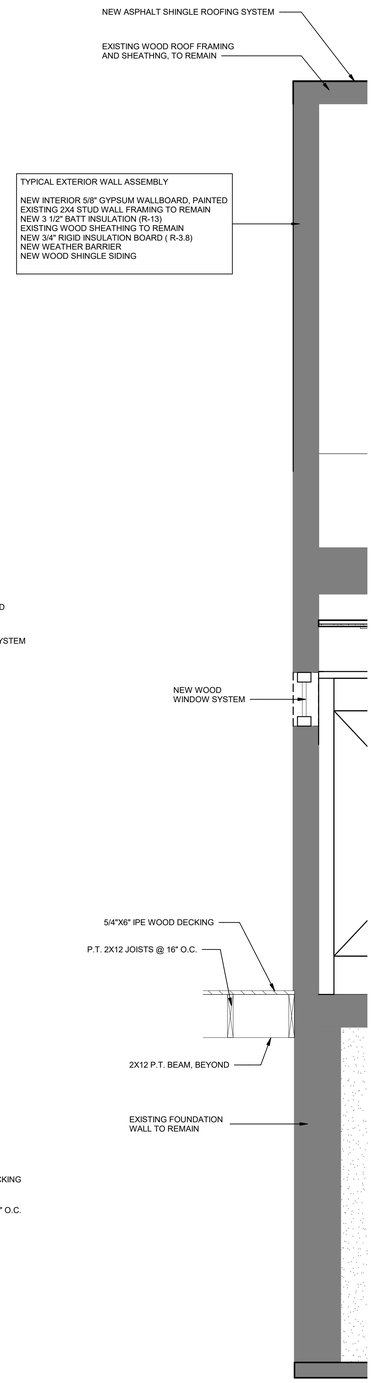
4 NORTH WALL SECTION
3/4" = 1'-0"



3 FUNCTION HALL SOUTH WALL SECTION
3/4" = 1'-0"



2 WALL SECTION AT MAIN ST. ENTRY
3/4" = 1'-0"



1 EAST WALL SECTION
3/4" = 1'-0"

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

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KEY PLAN

NO.	DATE	DESCRIPTION

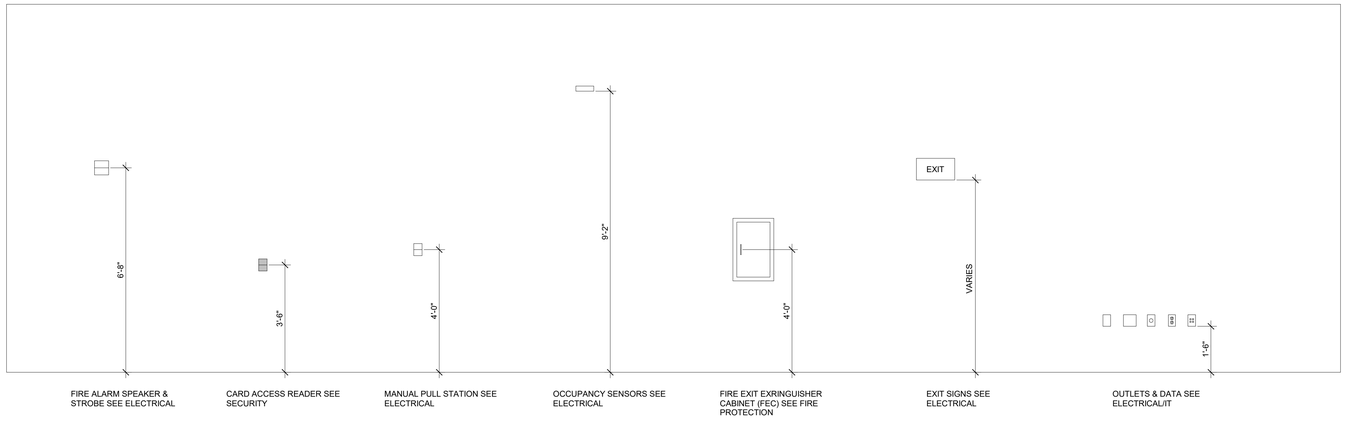
PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

WALL SECTIONS - EXTERIOR

A-401

3/11/2022 5:40:56 PM



1 INTERIOR MOUNTING HEIGHTS
1/2" = 1'-0"

3/11/2022 5:40:57 PM

OLD FIREHOUSE

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KEY PLAN

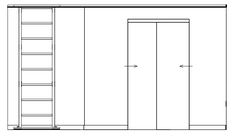
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

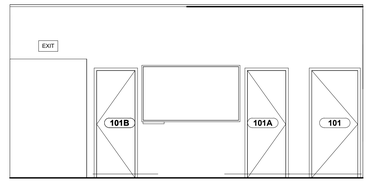
SHEET TITLE

TYPICAL MOUNTING HEIGHTS

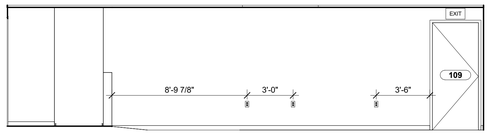
A-501



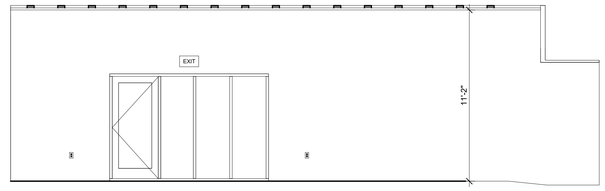
8 PROPOSED FLEX ROOM INTERIOR ELEVATION - E
1/4" = 1'-0"



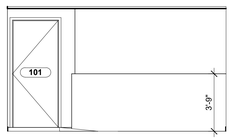
4 PROPOSED FUNCTION HALL INTERIOR ELEVATION - E
1/4" = 1'-0"



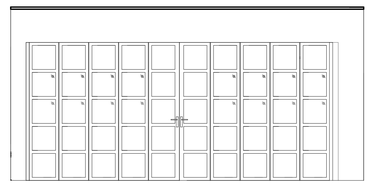
7 PROPOSED FLEX ROOM INTERIOR ELEVATION - N
1/4" = 1'-0"



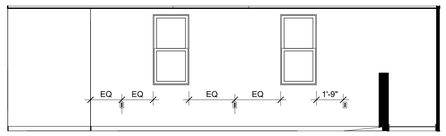
3 PROPOSED FUNCTION HALL INTERIOR ELEVATION - N
1/4" = 1'-0"



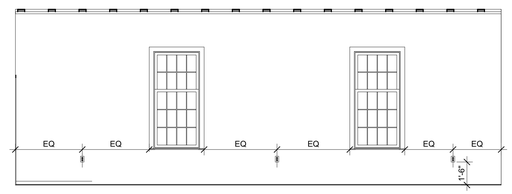
6 PROPOSED FLEX ROOM INTERIOR ELEVATION - W
1/4" = 1'-0"



2 PROPOSED FUNCTION HALL INTERIOR ELEVATION - W
1/4" = 1'-0"



5 PROPOSED FLEX ROOM INTERIOR ELEVATION - S
1/4" = 1'-0"



1 PROPOSED FUNCTION HALL INTERIOR ELEVATION - S
1/4" = 1'-0"

3/11/2022 5:40:59 PM

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

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KEY PLAN

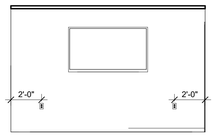
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

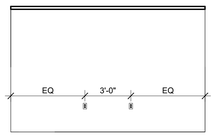
SHEET TITLE

INTERIOR ELEVATIONS - FIRST FLOOR

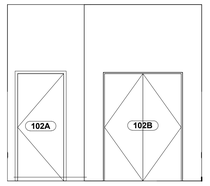
A-502



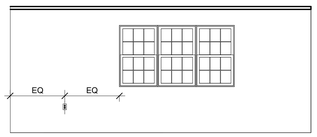
12 PROPOSED MEETING ROOM INTERIOR ELEVATION - E
1/4" = 1'-0"



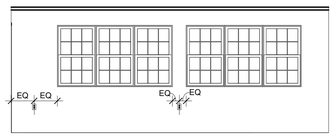
8 PROPOSED OFFICE INTERIOR ELEVATION - E
1/4" = 1'-0"



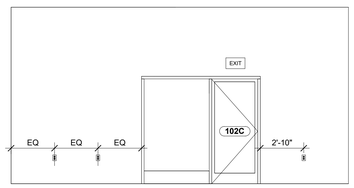
4 PROPOSED VISITOR'S CENTER INTERIOR ELEVATION - E
1/4" = 1'-0"



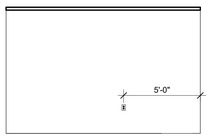
11 PROPOSED MEETING ROOM INTERIOR ELEVATION - N
1/4" = 1'-0"



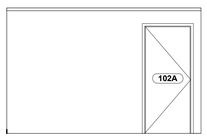
7 PROPOSED OFFICE INTERIOR ELEVATION - N
1/4" = 1'-0"



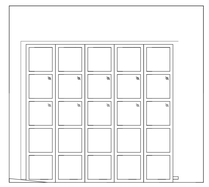
3 PROPOSED VISITOR'S CENTER INTERIOR ELEVATION - N
1/4" = 1'-0"



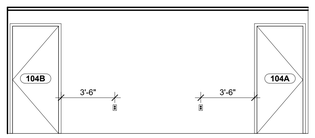
10 PROPOSED MEETING ROOM INTERIOR ELEVATION - W
1/4" = 1'-0"



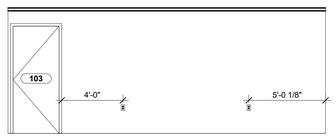
6 PROPOSED OFFICE INTERIOR ELEVATION - W
1/4" = 1'-0"



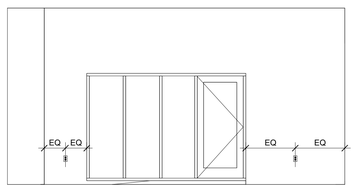
2 PROPOSED VISITOR'S CENTER INTERIOR ELEVATION - W
1/4" = 1'-0"



9 PROPOSED MEETING ROOM INTERIOR ELEVATION - S
1/4" = 1'-0"



5 PROPOSED OFFICE INTERIOR ELEVATION - S
1/4" = 1'-0"



1 PROPOSED VISITOR'S CENTER INTERIOR ELEVATION - S
1/4" = 1'-0"

OLD FIREHOUSE

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ARCHITECT

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KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

INTERIOR ELEVATIONS - FIRST FLOOR

A-503

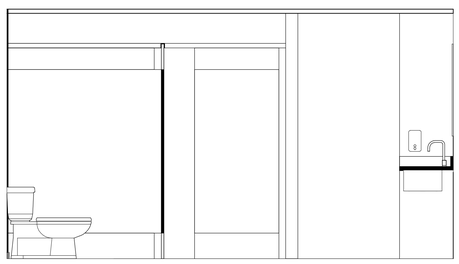
3/11/2022 5:41:02 PM

KEY & MOUNTING HEIGHT SCHEDULE

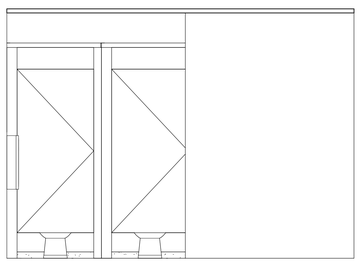
KEY	Acessory/Fixture	Comments
A	MIRROR	BOTTOM @ 38" AFF
B1	36" GRAB BAR	TOILET BACK WALL: TOP @ 33-36" AFF, TOILET SIDE WALL: TOP @ 33"-36" AFF
B2	42" GRAB BAR	TOILET BACK WALL: TOP @ 33-36" AFF, TOILET SIDE WALL: TOP @ 33"-36" AFF
C	TOILET	TOP OF SEAT @ 17" AFF. FLUSH VALVE ON ACCESS SIDE
D	TOILET PAPER DISPENSER	CL OF ROLL @ 24", SIDE WALL CLOSEST TO TOILET
E	SINK	34" MAX. A.F.F. - REFER TO PLUMBING FIXTURE SCHEDULE
F	PAPER TOWEL DISPENSER	CL OF ROLL @ 42" MAX A.F.F.
G	SOAP DISPENSER	42" MAX A.F.F
H	LIGHT FIXTURE	SEE LIGHTING SCHEDULE
I	URINAL	ACCESSIBLE FIXTURE; ELONGATED RIM AT 17" MAX A.F.F. - SEE PLUMBING FIXTURE SCHEDULE
K	BABY CHANGE TABLE	BOTTOM @ 27" AFF
L	LAV GUARD	SEE PLUMBING FIXTURE SCHEDULE

D RESTROOM (W) EAST
1/2" = 1'-0"

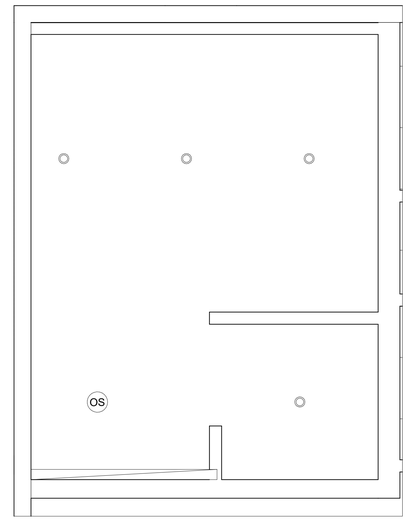
C RESTROOM (W) NORTH
1/2" = 1'-0"



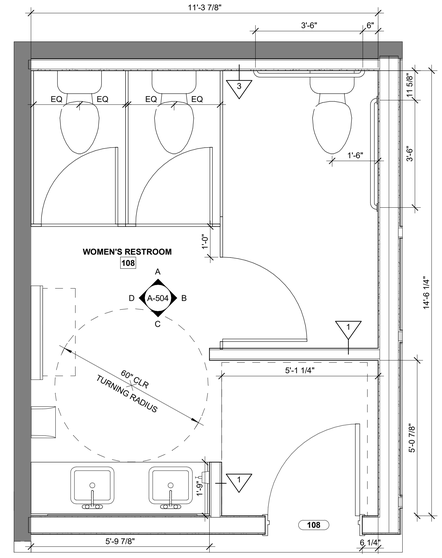
B RESTROOM (W) WEST
1/2" = 1'-0"



A RESTROOM (W) SOUTH
1/2" = 1'-0"



2 ENLARGED RCP RESTROOM (W)
1/2" = 1'-0"



1 ENLARGED BATHROOM (W) PLAN
1/2" = 1'-0"

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KEY PLAN

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PROJECT NUMBER: 221028
DRAWN BY: Author
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SHEET TITLE

ENLARGED BATH PLANS & ELEVATIONS (W)

A-504

3/11/2022 5:41:02 PM

KEY & MOUNTING HEIGHT SCHEDULE

KEY	Acessory/Fixture	Comments
A	MIRROR	BOTTOM @ 38" AFF
B1	36" GRAB BAR	TOILET BACK WALL: TOP @ 33-36" AFF, TOILET SIDE WALL: TOP @ 33"-36" AFF
B2	42" GRAB BAR	TOILET BACK WALL: TOP @ 33-36" AFF, TOILET SIDE WALL: TOP @ 33"-36" AFF
C	TOILET	TOP OF SEAT @ 17" AFF. FLUSH VALVE ON ACCESS SIDE
D	TOILET PAPER DISPENSER	CL OF ROLL @ 24", SIDE WALL CLOSEST TO TOILET
E	SINK	34" MAX. A.F.F. - REFER TO PLUMBING FIXTURE SCHEDULE
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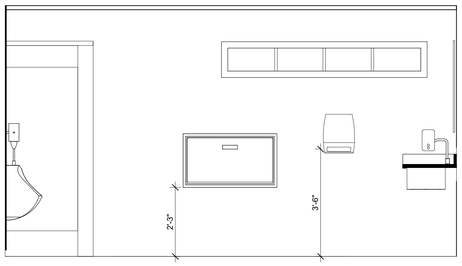
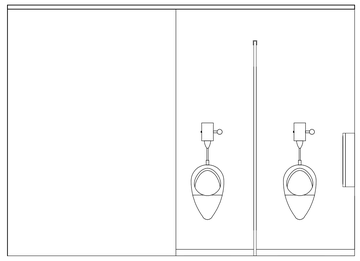
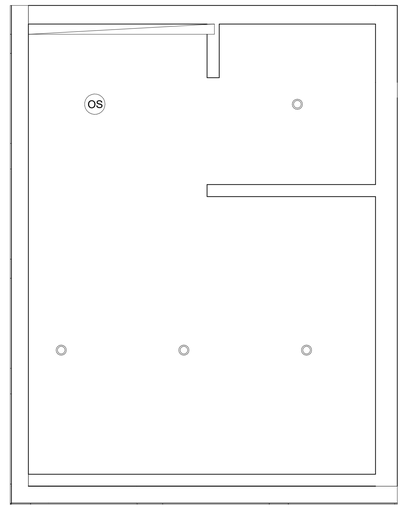
G	SOAP DISPENSER	42" MAX A.F.F
H	LIGHT FIXTURE	SEE LIGHTING SCHEDULE
I	URINAL	ACCESSIBLE FIXTURE; ELONGATED RIM AT 17" MAX A.F.F. - SEE PLUMBING FIXTURE SCHEDULE
K	BABY CHANGE TABLE	BOTTOM @ 27" AFF
L	LAV GUARD	SEE PLUMBING FIXTURE SCHEDULE



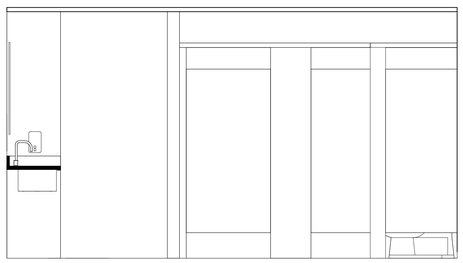
D RESTROOM (M) EAST
1/2" = 1'-0"



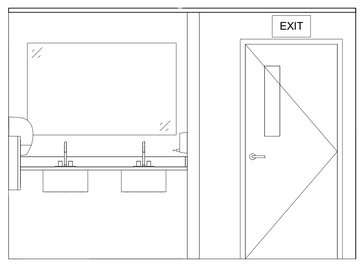
C RESTROOM (M) NORTH
1/2" = 1'-0"



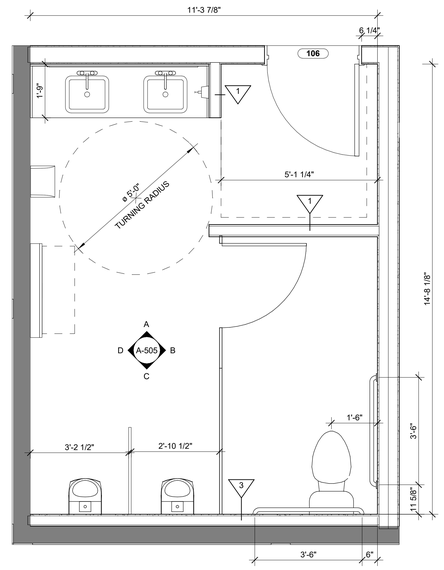
2 ENLARGED RCP RESTROOM (M)
1/2" = 1'-0"



B RESTROOM (M) WEST
1/2" = 1'-0"



A RESTROOM (M) SOUTH
1/2" = 1'-0"



1 ENLARGED BATHROOM (M) PLAN
1/2" = 1'-0"

3/11/2022 5:41:04 PM

OLD FIREHOUSE

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11

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
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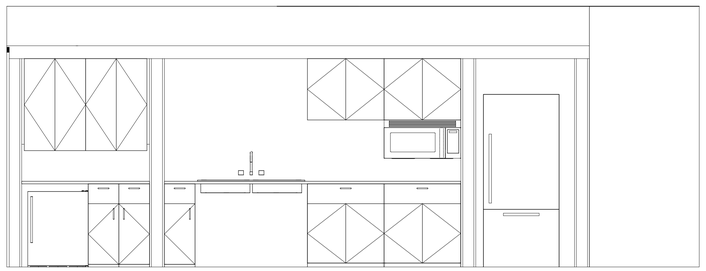
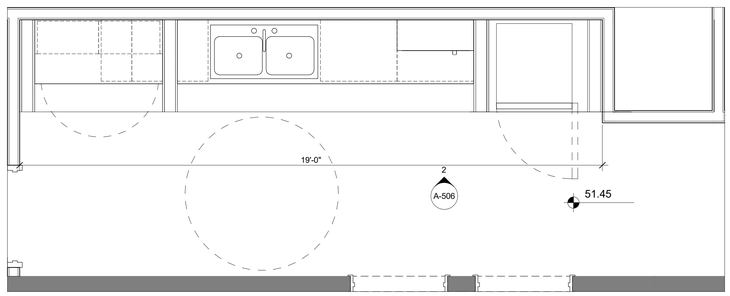
SHEET TITLE

ENLARGED BATH PLANS & ELEVATIONS (M)

A-505



2 KITCHENETTE ELEVATION
1/2" = 1'-0"



1 ENLARGED KITCHENETTE PLAN
1/2" = 1'-0"

3/11/2022 5:41:05 PM

OLD FIREHOUSE

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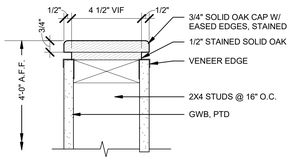
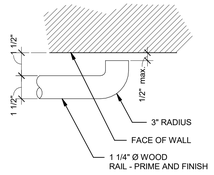
SHEET TITLE

ENLARGED KITCHEN PLANS & ELEVATIONS

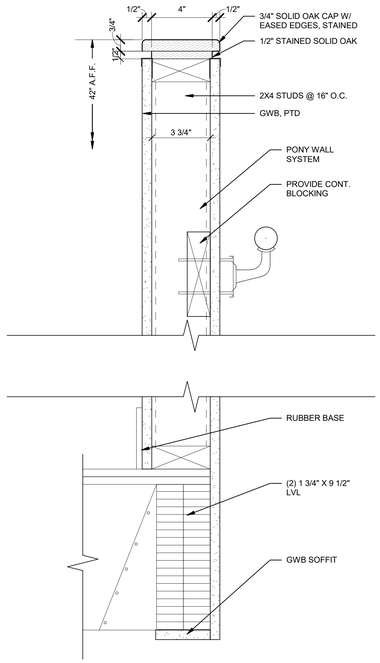
A-506



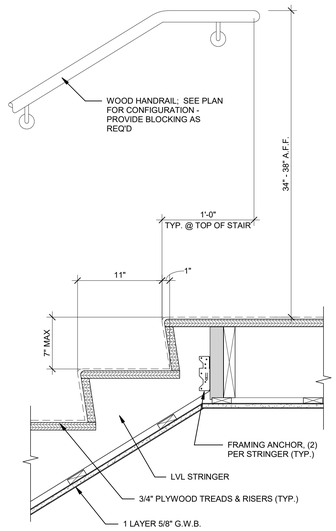
8 WOOD CAP DETAIL
3" = 1'-0"



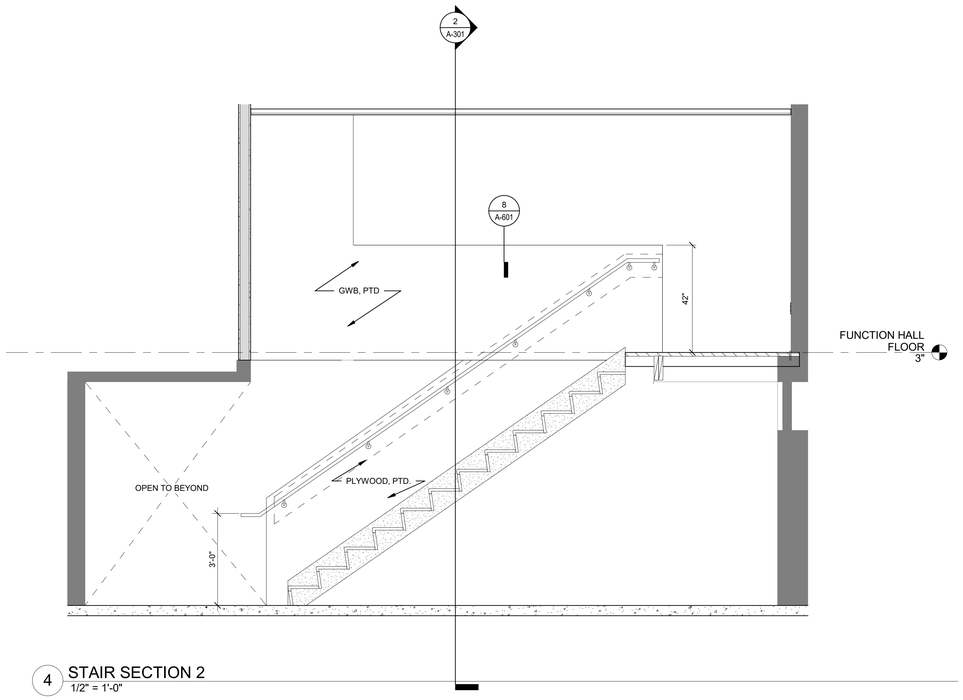
9 HANDRAIL DETAILS
3" = 1'-0"



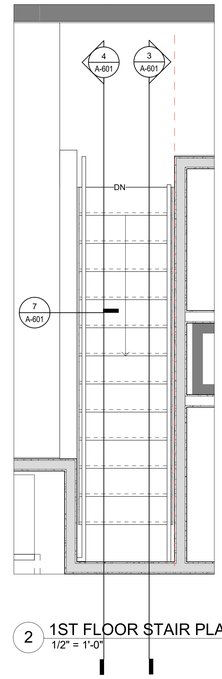
7 DETAIL THRU HALF WALL
3" = 1'-0"



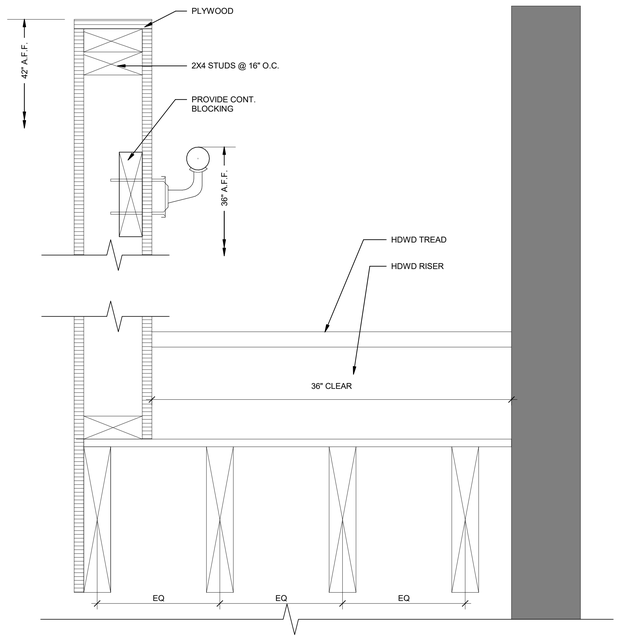
6 WOOD STAIR DETAIL
1 1/2" = 1'-0"



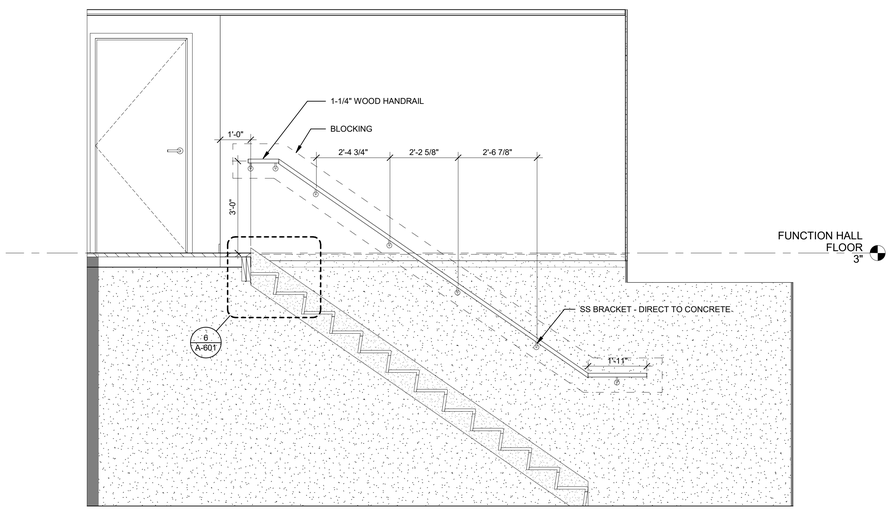
4 STAIR SECTION 2
1/2" = 1'-0"



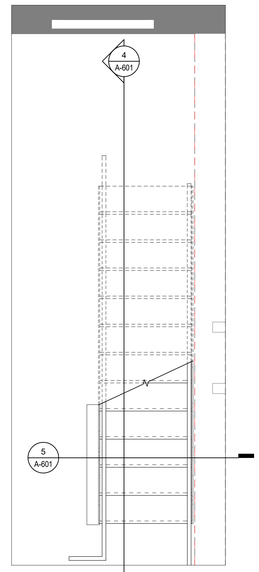
2 1ST FLOOR STAIR PLAN
1/2" = 1'-0"



5 DETAIL THRU HALF WALL Copy 1
3" = 1'-0"



3 STAIR SECTION 1
1/2" = 1'-0"



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

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

TOWN OF ORLEANS , MA

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

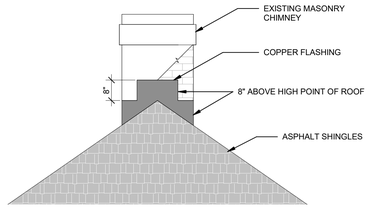
PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

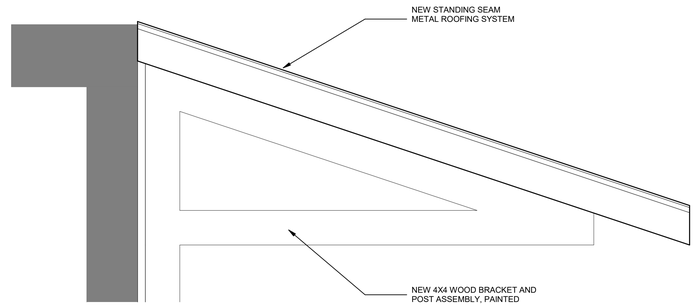
STAIR PLANS & SECTION

A-601

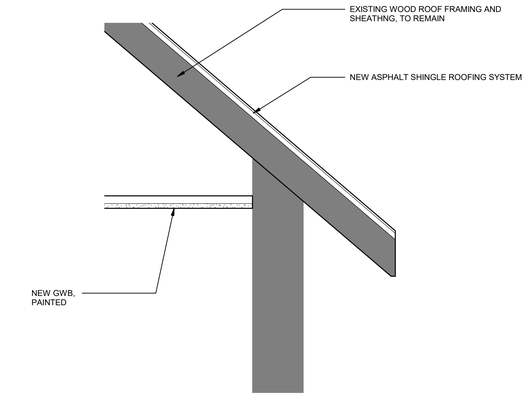
3/11/2022 5:41:08 PM



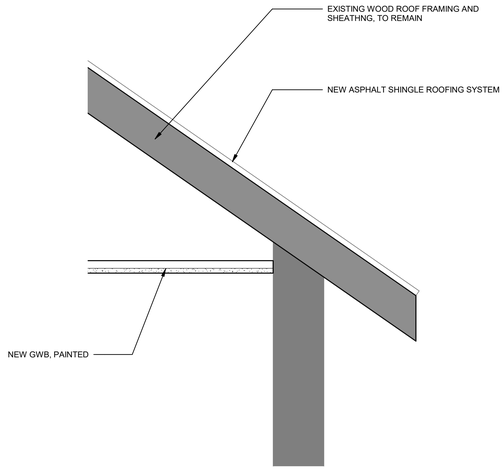
4 COPPER FLASHING DETAIL
1/2" = 1'-0"



3 NEW CANOPY ROOF DETAIL @ NORTH FACADE
1 1/2" = 1'-0"



2 EAVE DETAIL AT WEST ROOF
1 1/2" = 1'-0"



1 EAVE DETAIL AT SOUTH ROOF
1 1/2" = 1'-0"

3/11/2022 5:41:10 PM

OLD FIREHOUSE

ORLEANS COMMUNITY BUILDING

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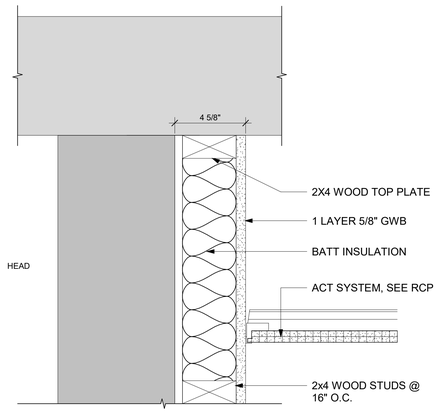
SHEET TITLE

ROOF DETAILS

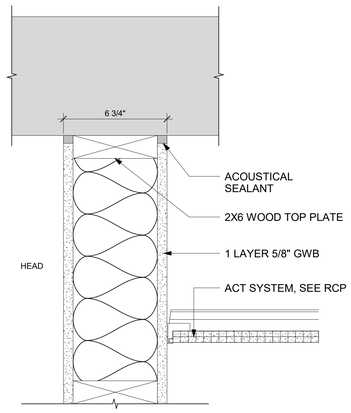
A-701

NOTES:

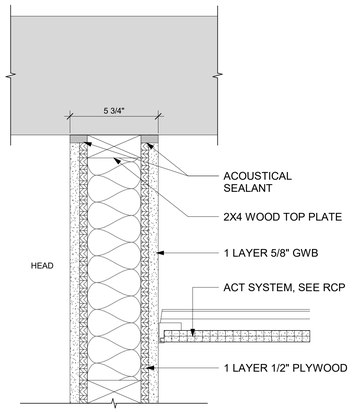
1. COORDINATE W/ STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND DETAILS.
2. PROVIDE MOISTURE RESISTENT GWB AT ALL TOILET ROOMS
3. SEAL ALL FLOOR AND UNDERSIDE OF DECK GAPS WITH ACOUSTIC SEALANT AT PARTITIONS RUNNING PERPENDICULAR TO JOISTS ABOVE, EXTEND DRYWALL AND ACOUSTIC INSULATION BETWEEN JOISTS UP TO STRUCTURAL DECK.



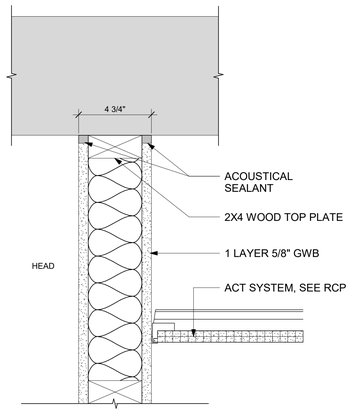
3 TYPICAL FURRED OUT PARTITION
3" = 1'-0"



2 TYPICAL 2X6 PARTITION
3" = 1'-0"



1A TYPICAL 2X4 STUD PARTITION W/ 1/2" PLYWOOD
3" = 1'-0"



1 TYPICAL 2X4 STUD PARTITION
3" = 1'-0"

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KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
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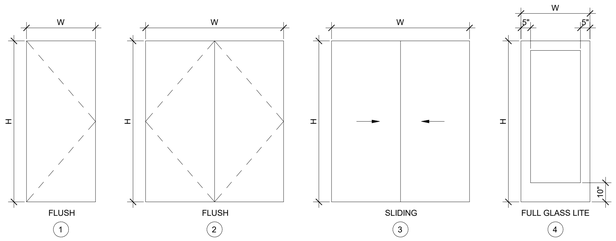
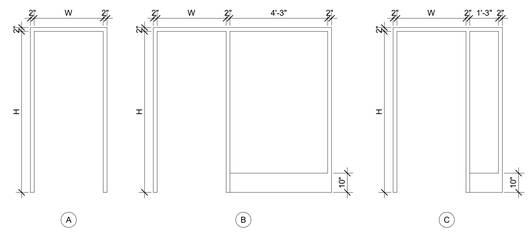
SHEET TITLE

PARTITION TYPES

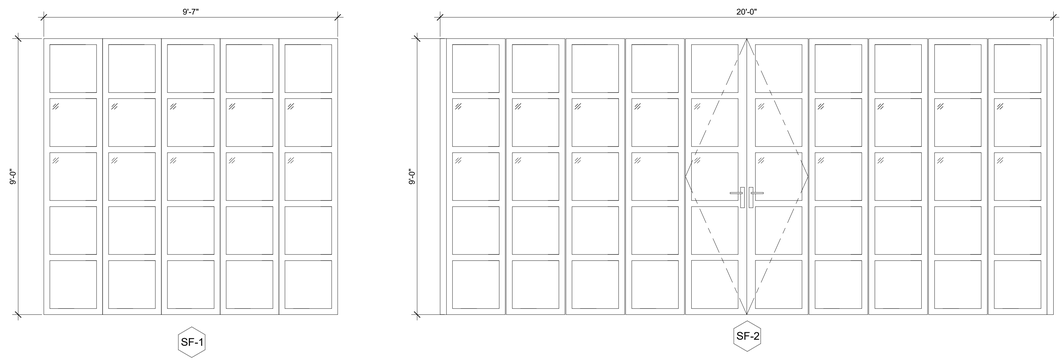
A-801



DOOR TYPE ELEVATIONS
3/8" = 1'-0"



DOOR FRAME TYPE ELEVATIONS
3/8" = 1'-0"



1 STOREFRONT TYPES
1/2" = 1'-0"

DOOR & FRAME SCHEDULE - BUILDING

#	SIZE			NAME	DOOR			FRAME			Fire Rating	Hardware Set	Comments
	WIDTH	HEIGHT	THK		TYPE	MTRL	FINISH	TYPE	MTRL	FINISH			
001	3'-0"	7'-0"	1 3/4"	ELEC. ROOM	1	WOOD	CLEAR	A	METAL	PAINT			
002	3'-0"	7'-0"	1 3/4"	MECHANICAL ROOM	1	WOOD	CLEAR	A	METAL	PAINT			
101	3'-0"	7'-0"	1 3/4"	FUNCTION HALL	1	WOOD	CLEAR	A	METAL	PAINT			
101A	2'-6"	7'-0"	1 3/4"	AV CLOSET	1	WOOD	CLEAR	A	METAL	PAINT			
101B	2'-6"	7'-0"	1 3/4"	CLOSET	1	WOOD	CLEAR	A	METAL	PAINT			
102A	3'-0"	7'-0"	1 3/4"	VISITOR'S CENTER	1	WOOD	CLEAR	A	METAL	PAINT			
102B	5'-0"	7'-0"	1 3/8"	CLOSET	2	WOOD	CLEAR	A	METAL	PAINT			
102C	3'-0"	6'-10"	1 3/4"	VISITOR'S CENTER	4	ALUM.	PREFIN.	B	ALUM.	PREFIN.			
102D	3'-0"	6'-8"	1 3/4"	VISITOR'S CENTER									
103	3'-0"	7'-0"	1 3/4"	2-PERSON OFFICE	1	WOOD	CLEAR	A	METAL	PAINT			
104A	3'-0"	7'-0"	1 3/4"	SMALL MEETING ROOM	1	WOOD	CLEAR	A	METAL	PAINT			
104B	3'-0"	7'-0"	1 3/4"	SMALL MEETING ROOM	1	WOOD	CLEAR	A	METAL	PAINT			
105	3'-0"	7'-0"	1 3/4"	ELEC. ROOM	1	WOOD	CLEAR	A	METAL	PAINT			
106	3'-0"	7'-0"	1 3/4"	MEN'S RESTROOM	1	WOOD	CLEAR	A	METAL	PAINT			
107	2'-11"	6'-10"	1 3/4"	HALL	4	ALUM.	PREFIN.	C	ALUM.	PREFIN.			
108	3'-0"	7'-0"	1 3/4"	WOMEN'S RESTROOM	1	WOOD	CLEAR	A	METAL	PAINT			
109	3'-0"	7'-0"	1 3/4"	FLEX ROOM	1	WOOD	CLEAR	A	METAL	PAINT			
109A	4'-0"	7'-0"	1 1/2"	STORAGE	3	WOOD	CLEAR	A	METAL	PAINT			
152	3'-0"	7'-0"	1 3/4"										

OLD FIREHOUSE

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KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
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SHEET TITLE

DOOR SCHEDULE

A-802

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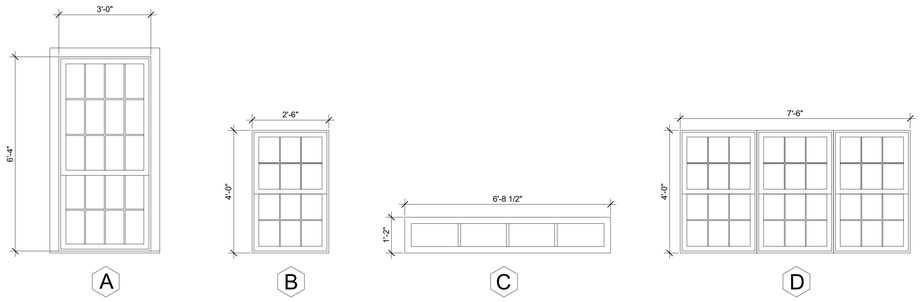
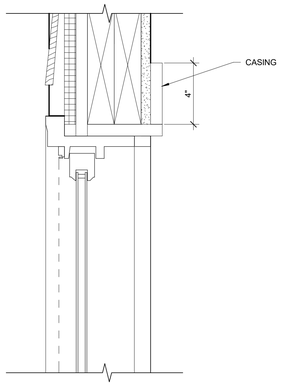
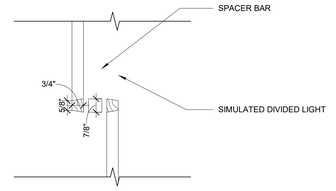
EXTERIOR WINDOW TYPES

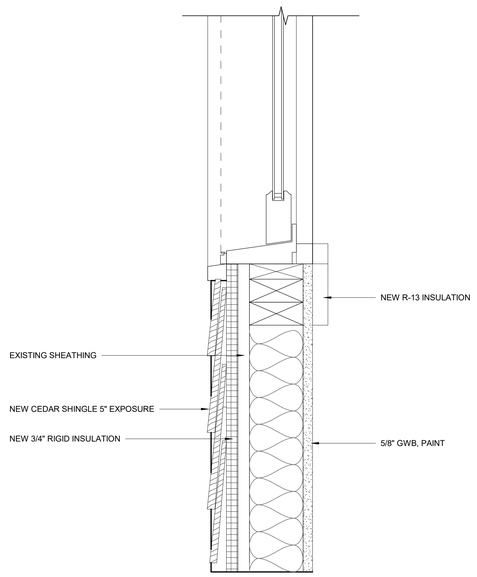


WINDOW SCHEDULE

TYPE	SIZE		MATERIAL		DETAILS			COMMENTS
	WIDTH	HEIGHT	FRAME	TRIM	HEAD	JAMB	SILL	
A	3'-0"	6'-4"						
B	2'-4"	4'-7"						
C	6'-8 1/2"	1'-2"						
D	7'-6"	4'-0"						







3 TYPICAL WINDOW SECTION
3" = 1'-0"

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KEY PLAN

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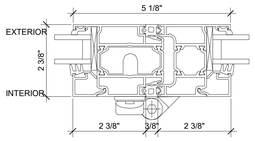
SHEET TITLE

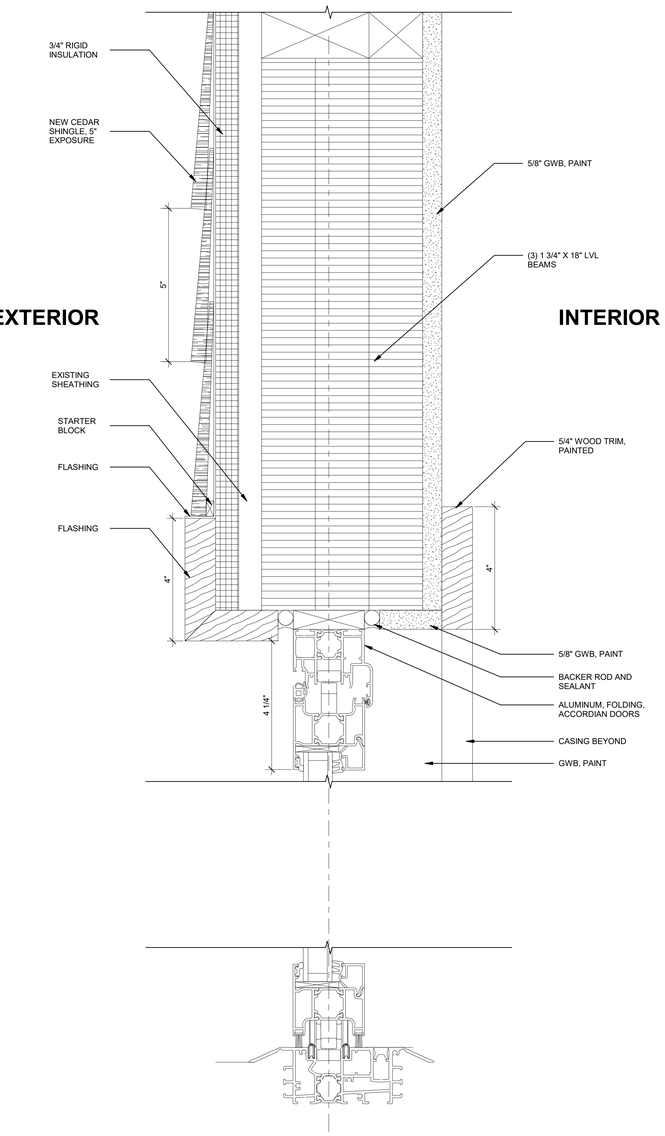
DOOR, WINDOW AND STOREFRONT TYPES & SCHEDULES

A-803

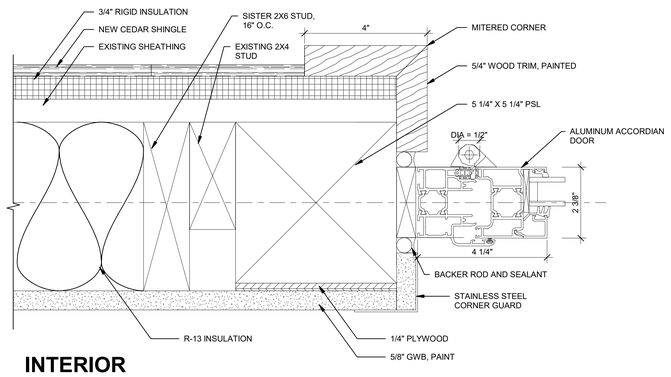
3/11/2022 5:41:13 PM



3 FOLDING WITH HANDLE DETAIL
6" = 1'-0"



EXTERIOR



INTERIOR

2 JAMB DETAIL
6" = 1'-0"

1 HEAD AND SILL DETAIL
6" = 1'-0"

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KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
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SHEET TITLE

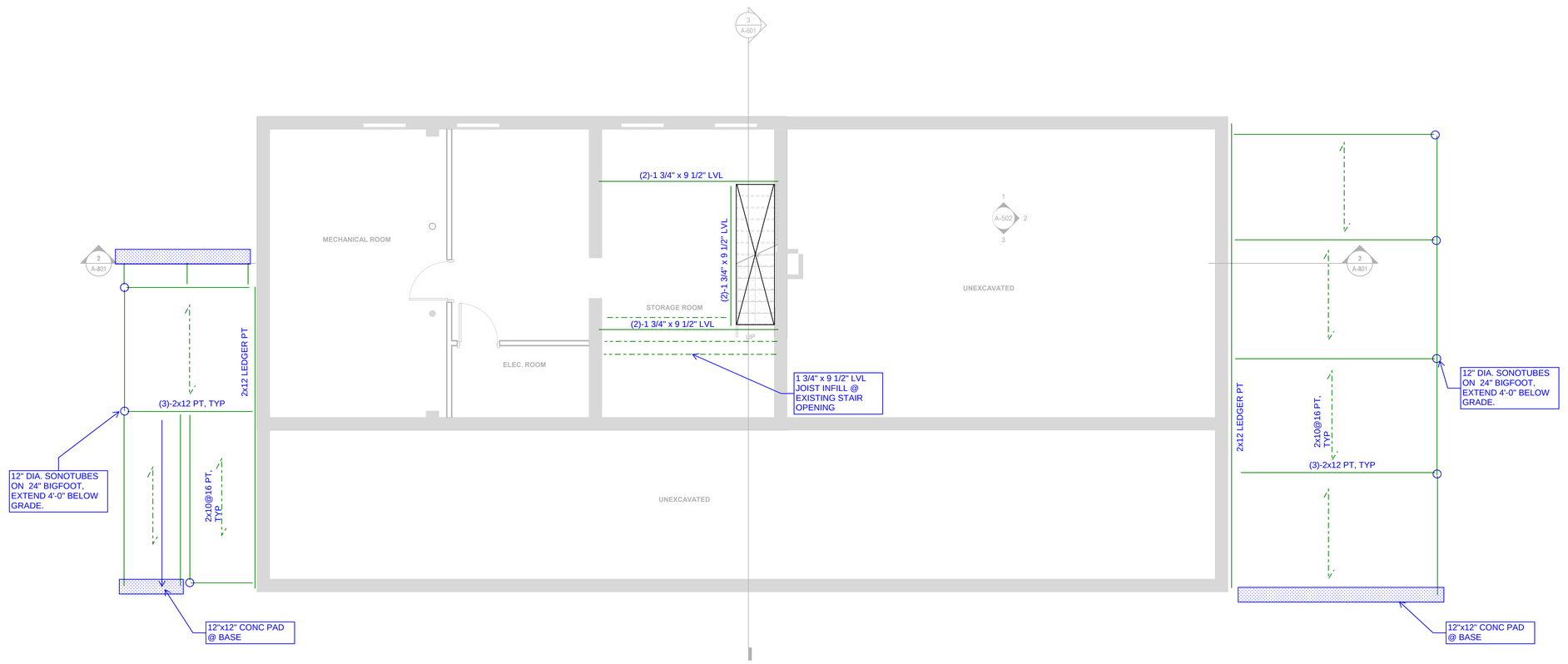
THERMALLY BROKEN ALUM. ACCORDIAN DOOR DETAILS

A-805

3/11/2022 5:41:16 PM

GENERAL PLAN NOTES

1. ALL CMU WALLS ARE DIMENSIONED FACE TO FACE.
2. ALL STUD WALLS ARE DIMENSIONED CENTERLINE TO CENTERLINE OF STUD.
3. ALL EXTERIOR WALLS ARE DIMENSIONED TO EXTERIOR FACE OF MASONRY OR EXTERIOR FACE OF STUD.
4. ALL OPENINGS WITHIN A MASONRY WALL ARE DIMENSIONED TO THE MASONRY OPENING.
5. ALL OPENINGS WITHIN A STUD WALL ARE DIMENSIONED TO CENTERLINE OF OPENING.
6. COORDINATE ALL FOOTINGS, PIERS, SLABS, AND DETAILS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
7. UNLESS OTHERWISE NOTED, INTERIOR DIMENSIONS ARE TO CENTERLINE OF STUD.
8. INTERIOR DIMENSIONS TO DEMISING PARTITIONS ARE TO CENTERLINE OF OVERALL PARTITION.
9. INTERIOR DIMENSIONS TO THE EXTERIOR WALL ARE TO THE OUTSIDE FACE OF STUD/OUTSIDE FACE OF FOUNDATION.
10. REFER TO A-900's FOR FINISH FLOOR AND REFLECTED CEILING PLANS.



1 FIRST FLOOR FRAMING PLAN
1/4" = 1'-0"

0 4" 8" 16"

2/28/2022 9:38:50 AM

OLD FIREHOUSE

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RSE ASSOCIATES Inc.
STRUCTURAL ENGINEERS
63 PLEASANT STREET
WATERTOWN, MA 02472
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FAX (617) 926-9301
www.rseassociates.com

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

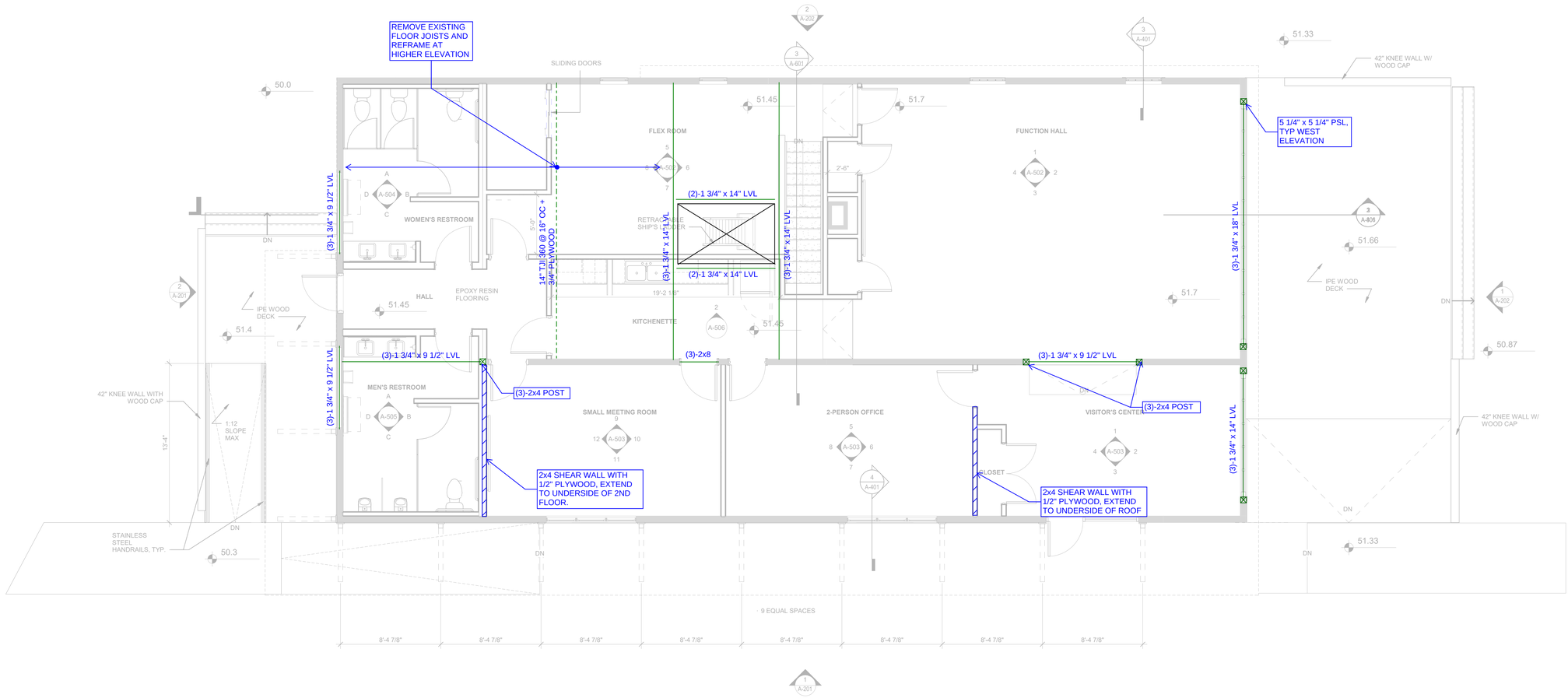
SHEET TITLE

FIRST FLOOR FRAMING PLAN

S-101

GENERAL PLAN NOTES

1. ALL CMU WALLS ARE DIMENSIONED FACE TO FACE.
2. ALL STUD WALLS ARE DIMENSIONED CENTERLINE TO CENTERLINE OF STUD.
3. ALL EXTERIOR WALLS ARE DIMENSIONED TO EXTERIOR FACE OF MASONRY OR EXTERIOR FACE OF STUD.
4. ALL OPENINGS WITHIN A MASONRY WALL ARE DIMENSIONED TO THE MASONRY OPENING.
5. ALL OPENINGS WITHIN A STUD WALL ARE DIMENSIONED TO CENTERLINE OF OPENING.
6. COORDINATE ALL FOOTINGS, PIERS, SLABS, AND DETAILS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
7. UNLESS OTHERWISE NOTED, INTERIOR DIMENSIONS ARE TO CENTERLINE OF STUD.
8. INTERIOR DIMENSIONS TO DEMISING PARTITIONS ARE TO CENTERLINE OF OVERALL PARTITION.
9. INTERIOR DIMENSIONS TO THE EXTERIOR WALL ARE TO THE OUTSIDE FACE OF STUD/OUTSIDE FACE OF FOUNDATION.
10. REFER TO A-900's FOR FINISH FLOOR AND REFLECTED CEILING PLANS.



1 SECOND FLOOR FRAMING PLAN
1/4" = 1'-0"

0 4' 8' 16'

2/28/2022 9:38:52 AM

OLD FIREHOUSE

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KEY PLAN

NO.	DATE	DESCRIPTION
1	2022-02-25	100% CD

PROJECT NUMBER: 221028
DRAWN BY: Author
CHECKED BY: Checker

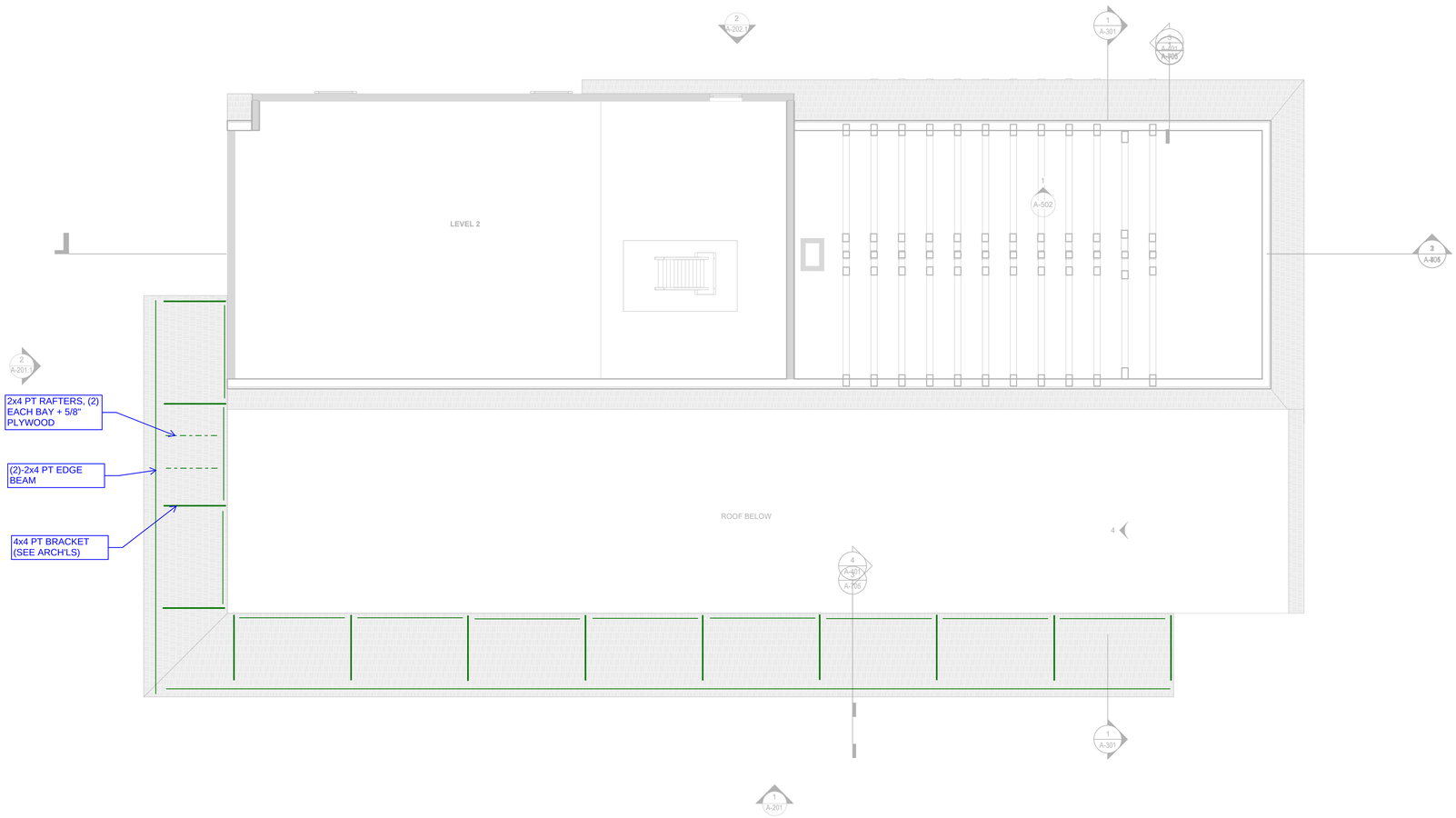
SHEET TITLE

SECOND FLOOR FRAMING PLAN

S-102

GENERAL PLAN NOTES

1. ALL CMU WALLS ARE DIMENSIONED FACE TO FACE.
2. ALL STUD WALLS ARE DIMENSIONED CENTERLINE TO CENTERLINE OF STUD.
3. ALL EXTERIOR WALLS ARE DIMENSIONED TO EXTERIOR FACE OF MASONRY OR EXTERIOR FACE OF STUD.
4. ALL OPENINGS WITHIN A MASONRY WALL ARE DIMENSIONED TO THE MASONRY OPENING.
5. ALL OPENINGS WITHIN A STUD WALL ARE DIMENSIONED TO CENTERLINE OF OPENING.
6. COORDINATE ALL FOOTINGS, PIERS, SLABS, AND DETAILS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
7. UNLESS OTHERWISE NOTED, INTERIOR DIMENSIONS ARE TO CENTERLINE OF STUD.
8. INTERIOR DIMENSIONS TO DEMISING PARTITIONS ARE TO CENTERLINE OF OVERALL PARTITION.
9. INTERIOR DIMENSIONS TO THE EXTERIOR WALL ARE TO THE OUTSIDE FACE OF STUD/OUTSIDE FACE OF FOUNDATION.
10. REFER TO A-900's FOR FINISH FLOOR AND REFLECTED CEILING PLANS.



1 ROOF FRAMING PLAN
1/4" = 1'-0"

0 4" 8" 16"

2/28/2022 9:38:53 AM

OLD FIREHOUSE

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KEY PLAN

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SHEET TITLE

ROOF FRAMING PLAN

S-103

GENERAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DIRECT WASTE
ELEC	ELECTRICAL
ET	EXPANSION TANK
EWS	EMERGENCY EYEWASH/SHOWER
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FGCO	FINISHED GRADE CLEANOUT
FLA	FULL LOAD AMPS
FLD	FLOOR DRAIN
FS	FLOOR SINK
FT	FEET
FT WG	FEET HEAD
G	GAS
GALL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSV	GAS SOLENOID VALVE
GW	GREASE WASTE
GV	GAS VENT
HB	HOSE BIB
HW	HOT WATER
HD	HEAD
HP	HORSEPOWER
HZ	HERTZ
HWR	HOT WATER RECIRCULATION
INT	INTERCEPTOR
INV ELEV	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OW	OIL WASTE
PCD	PUMPED CONDENSATE DRAIN
PLBG	PLUMBING
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SAN	SANITARY
SQFT / SF	SQUARE FEET
SS	SOIL STACK
ST	STORM
SST	SECONDARY STORM
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WS	WASTE STACK
W&V	WASTE AND VENT

PLUMBING DEMOLITION GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN UNLESS OTHERWISE INDICATED.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN (UNLESS INDICATED TO REMAIN).
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
8. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
9. THE PLUMBING CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
10. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR RETURNED TO OWNER AT OWNERS REQUEST OR AS INDICATED ON DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.

PLUMBING GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEM.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING & INSTALLING ALL SERVICES TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO: GAS SUPPLY PIPING, CONDENSATE PIPING, COLD WATER MAKE-UP PIPING, DRAINS, & CONNECTIONS TO AIR HANDLING UNITS, FAN COIL UNITS, UNIT HEATERS, HEAT PUMPS, ETC. ALSO, DEVICES REQUIRED INCLUDE BACKFLOW PREVENTERS, REGULATORS, UNIONS, TRAPS, & SHUT-OFF VALVES REQUIRED FOR THIS EQUIPMENT. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION AND COORDINATION.
5. THE CONTRACTOR SHALL PROVIDE PIPE EXPANSION JOINTS ON PIPING PASSING THRU ALL BUILDING EXPANSION JOINT LOCATIONS AS REQUIRED PER BUILDING CODES WHETHER OR NOT SHOWN ON DRAWINGS. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING EXPANSION JOINT LOCATIONS AND EXPANSION DIMENSIONS.

VALVE AND SYMBOL LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)
	BUTTERFLY VALVE
	GLOBE VALVE
	GATE VALVE
	OS&Y VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	Y-PATTERN STRAINER
S	SOLENOID VALVE
	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	COMBINATION SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)
	SAFETY RELIEF VALVE
	PRESSURE GAUGE
	THERMOMETER
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	GATE VALVE IN ROAD CURB BOX
	BACKWATER VALVE
	PUMP
M	WATER METER
	FLOOR DRAIN / FLOOR SINK / AREA DRAIN WITH PIPE TRAP
	ROOF / OVERFLOW DRAIN
TP	TRAP PRIMER
GM	GAS METER
	WATER HAMMER ARRESTOR
	VENT THRU ROOF
	ADA ACCESSIBLE FIXTURE

PIPING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER (110°F)
	HOT WATER RECIRCULATION (110°F)
140	HOT WATER (140°F)
140	HOT WATER RECIRCULATION (140°F)
SAN	SANITARY DRAIN/WASTE ABOVE FLOOR
SAN	SANITARY DRAIN/WASTE BELOW FLOOR
V	VENT
IW	INDIRECT WASTE
ST	STORM ABOVE FLOOR (PRIMARY)
ST	STORM BURIED (PRIMARY)
SST	STORM ABOVE FLOOR (SECONDARY)
G	NATURAL GAS
IW	INDIRECT WASTE
GW	GREASE WASTE
GW	GREASE WASTE BELOW FLOOR
T	TEMPID WATER (85°F)
FM	FORCE MAIN ABOVE FLOOR
FM	FORCE MAIN BELOW FLOOR
	PIPE RISE
	PIPE DROP
	PIPE TEE TOWARDS (UP IN PLAN)
	PIPE TEE AWAY (DOWN IN PLAN)
	PIPE DROP AND RUN
	DIRECTION OF FLOW
	PIPE TRAP
	DIRT LEG
CO	CLEANOUT
	UNION OR FLANGE
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC)
	REDUCER (CONCENTRIC)

ORLEANS COMMUNITY BUILDING

ARCHITECT

E-ICON ARCHITECTURE
101 SUMMER ST BOSTON MA 02110

CONSULTANT

CES
Consulting Engineering Services, LLC
128 Carnegie Row, Ste. 104
Norwood MA 02062
617.261.7161
ceseng.com
CES #2021631.00

STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

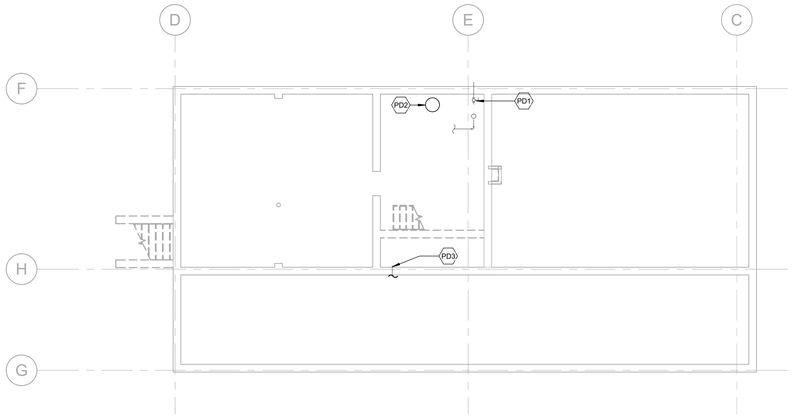
PROJECT NUMBER: 221028
DRAWN BY: JMB
CHECKED BY: BBP

SHEET TITLE

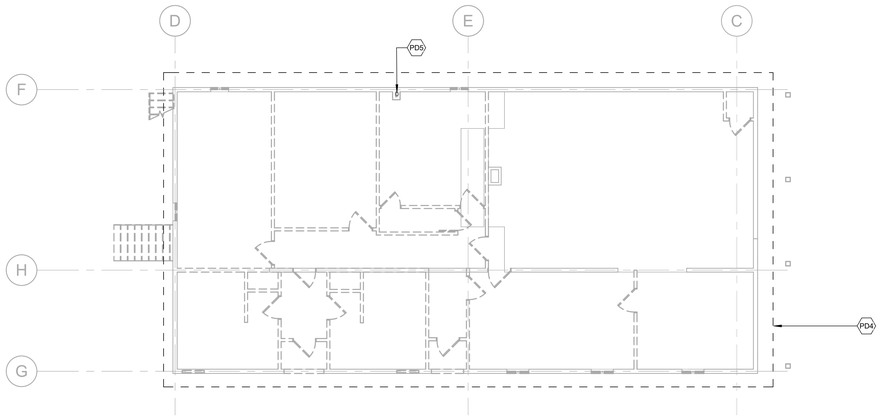
PLUMBING ABBREVIATIONS, NOTES AND SYMBOLS

P0.00

3/8/2022 1:50:34 PM



1 PLUMBING BASEMENT PLAN DEMOLITION
1/8" = 1'-0"



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

PLUMBING DEMOLITION KEY NOTES

PD1 ALL EXISTING DOMESTIC WATER PLUMBING IN THE BUILDING SHALL BE REMOVED. EXISTING 1 1/4" DOMESTIC COLD WATER SERVICE AND MAIN SHUT OFF VALVE TO REMAIN FOR FUTURE USE.

PD2 EXISTING WATER HEATER SHALL BE REMOVED AND RELINQUISHED TO OWNER

PD3 ALL EXISTING SANITARY WASTE AND VENT PIPING IN BUILDING TO BE REMOVED. EXISTING SANITARY SERVICE TO REMAIN FOR FUTURE USE.

PD4 ALL EXISTING PLUMBING FIXTURES, TRIM, AND ASSOCIATED PIPING AND APPURTENANCES TO BE REMOVED.

PD5 VERIFY 4" STACK IS ABANDONED. STACK TO BE REMOVED ONCE VERIFIED.

3/8/2022 1:50:50 PM

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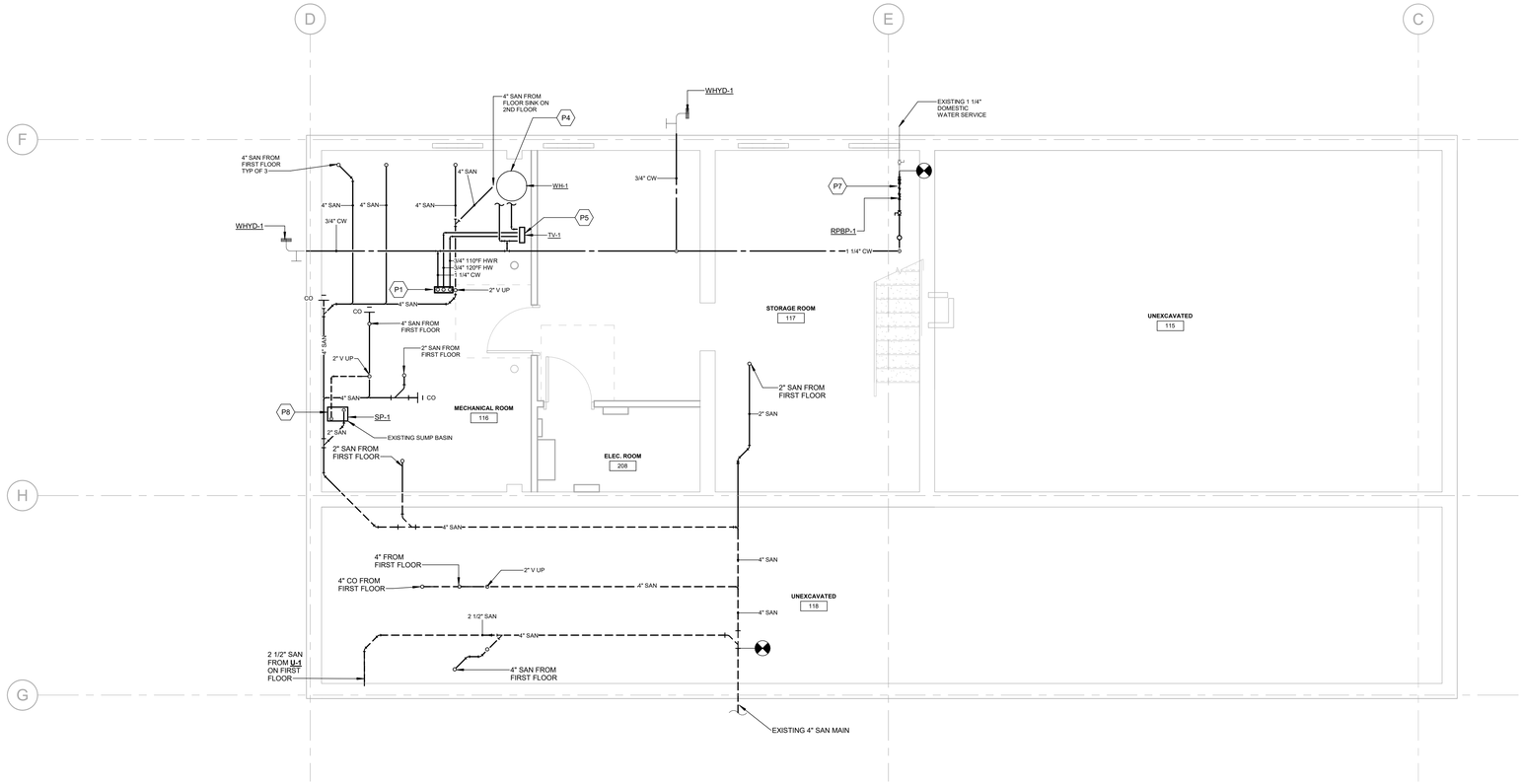
PLUMBING DEMOLITION FLOOR PLAN

PD1.00

PLUMBING KEY NOTES

P1	1.25" CW, 3/4" HW, 1/2" HWR UP FROM BASEMENT TO FIRST FLOOR
P2	RUN FULL SIZE CW AND V MAIN IN WET WALL. CONNECT TO FIXTURES ACCORDING TO FIXTURE CONNECTION SCHEDULE.
P3	RUN 3/4" CW, 1/2" HW, AND 1/2" HWR MAIN IN WET WALL. CONNECT TO L-1 ACCORDING TO FIXTURE CONNECTION SCHEDULE. LAVS SHALL BE INSTALLED WITH TV-2
P4	CONNECT TO WH-1 IN ACCORDANCE WITH DETAIL 1 ON PAGE P5.00
P5	CONNECT TO TV-1 IN ACCORDANCE WITH DETAIL 1 ON PAGE P5-00.
P6	RUN 1/2" CW, 1/2" HW, 2" V IN WET WALL AND CONNECT TO FIXTURES AS PER FIXTURE CONNECTION SCHEDULE
P7	CONTRACTOR SHALL COORDINATE NEW WATER METER FOR SERVICE WITH LOCAL UTILITY COMPANY. REFER TO DETAIL 5/P5.00 FOR PIPING OF SERVICE
P8	SP-1 SHALL BE INSTALLED IN EXISTING SUMP BASIN TO SERVE MECHANICAL EQUIPMENT



1 PLUMBING BASEMENT PLAN
1/4" = 1'-0"

3/8/2022 1:50:36 PM

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SHEET TITLE

PLUMBING BASEMENT FLOOR PLAN

P1.00

PLUMBING KEY NOTES

P1	1.25" CW, 3/4" HW, 1/2" HWR UP FROM BASEMENT TO FIRST FLOOR
P2	RUN FULL SIZE CW AND V MAIN IN WET WALL. CONNECT TO FIXTURES ACCORDING TO FIXTURE CONNECTION SCHEDULE.
P3	RUN 3/4" CW, 1/2" HW, AND 1/2" HWR MAIN IN WET WALL. CONNECT TO L-1 ACCORDING TO FIXTURE CONNECTION SCHEDULE. LAVS SHALL BE INSTALLED WITH TV-2
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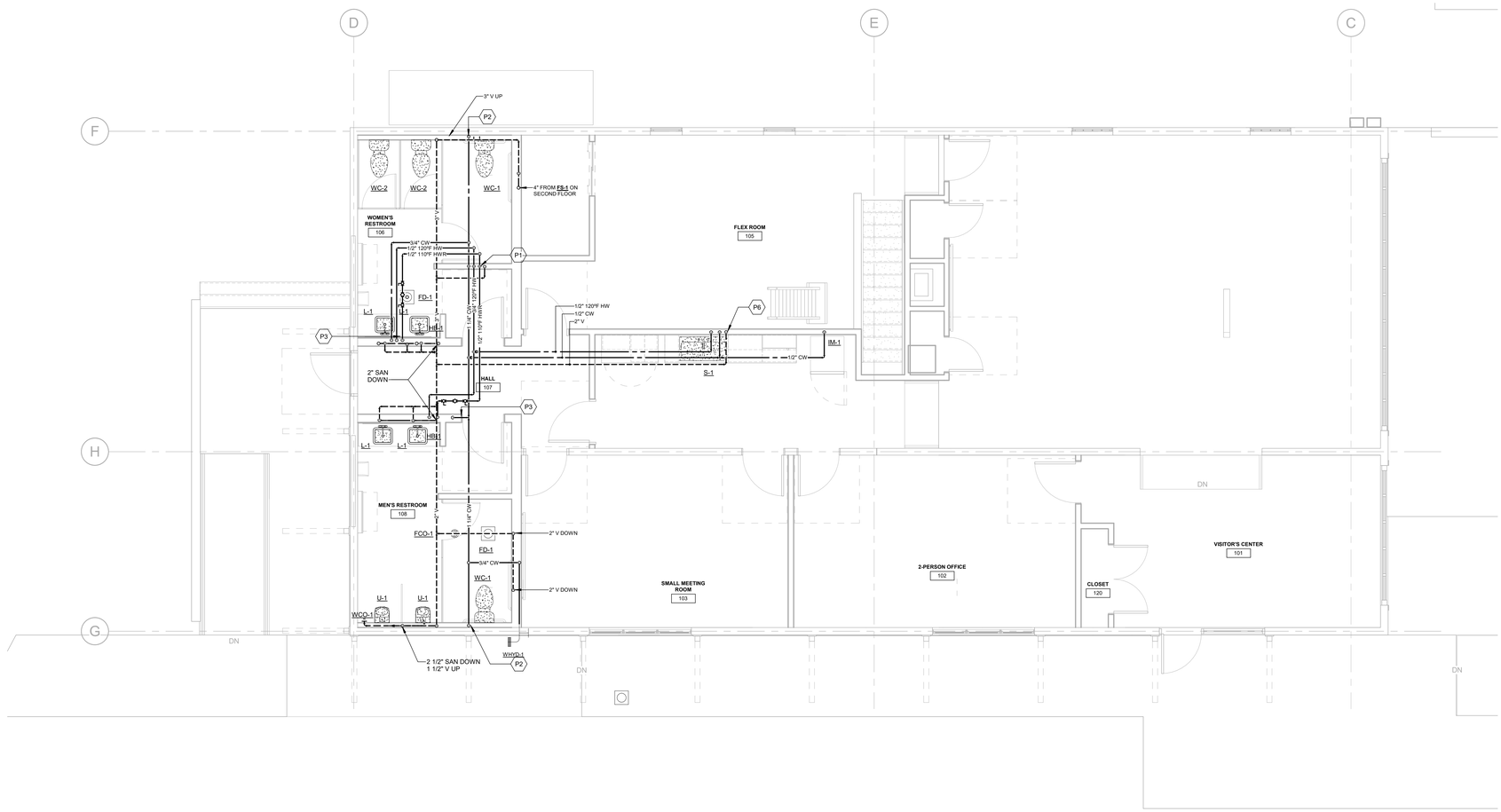
P7	CONTRACTOR SHALL COORDINATE NEW WATER METER FOR SERVICE WITH LOCAL UTILITY COMPANY. REFER TO DETAIL 5/P5.00 FOR PIPING OF SERVICE
P8	SP-1 SHALL BE INSTALLED IN EXISTING SUMP BASIN TO SERVE MECHANICAL EQUIPMENT



1 PLUMBING FIRST FLOOR PLAN
1/4" = 1'-0"

3/8/2022 1:50:39 PM

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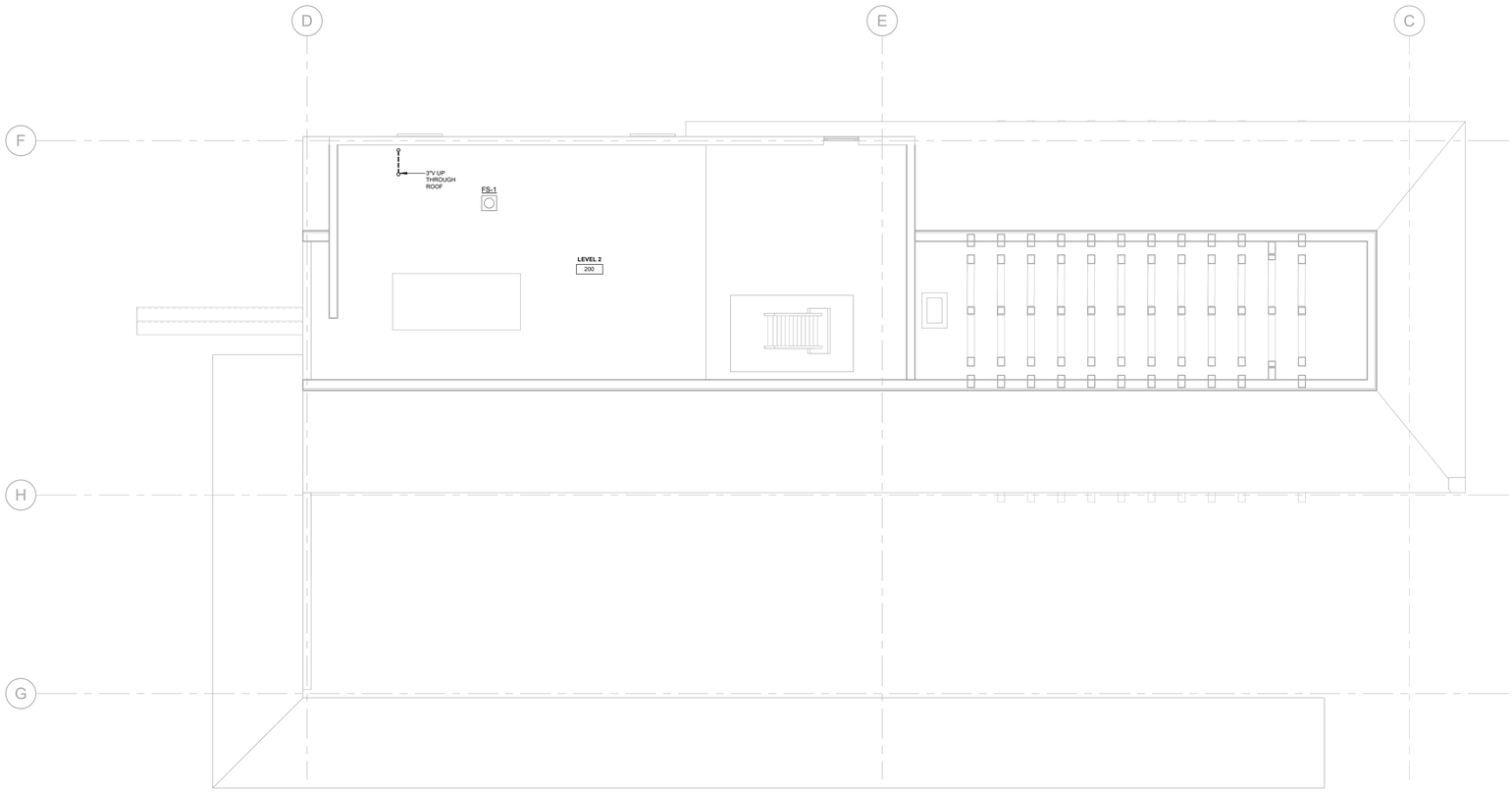
SHEET TITLE

PLUMBING FIRST FLOOR PLAN

P1.01



1 PLUMBING SECOND FLOOR PLAN
1/4" = 1'-0"

3/8/2022 1:50:41 PM

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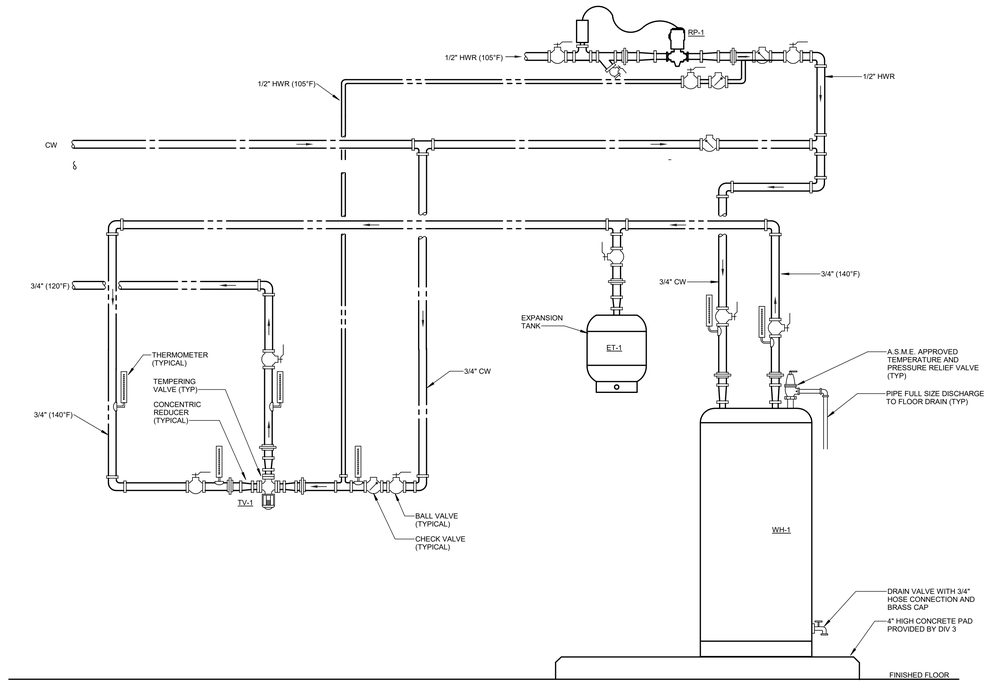
SHEET TITLE

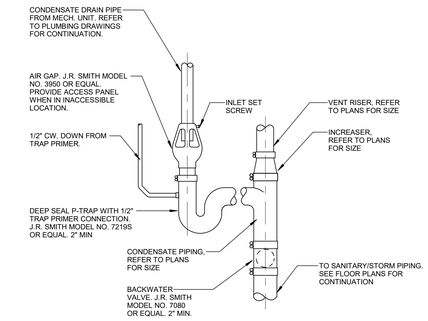
PLUMBING SECOND FLOOR PLAN

P1.02

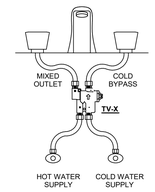


GENERAL NOTE:
1. CONTRACTOR MUST COORDINATE HOT WATER RECIRCULATION PIPING INSTALLATION PER THERMOSTATIC MIXING VALVE MANUFACTURERS INSTALLATION INSTRUCTION. HWR PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.
2. CONTRACTOR MUST COORDINATE EXPANSION TANK PIPING INSTALLATION PER EXPANSION TANK MANUFACTURERS INSTALLATION INSTRUCTION. EXPANSION TANK PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.

1 WATER HEATER DETAIL
NTS

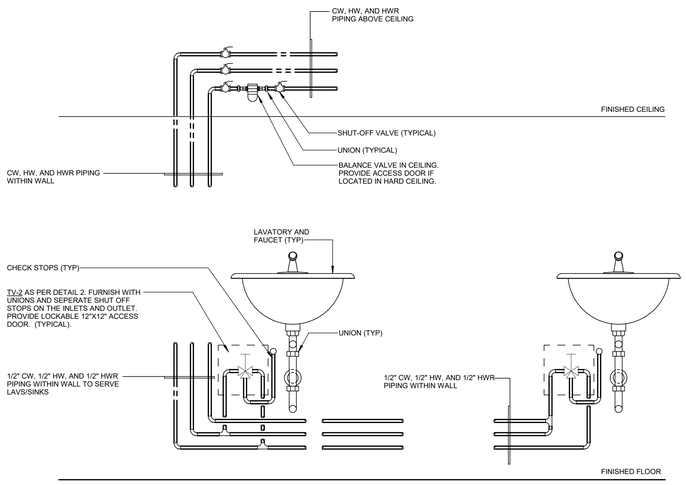


3 CONDENSATE DETAIL
NTS



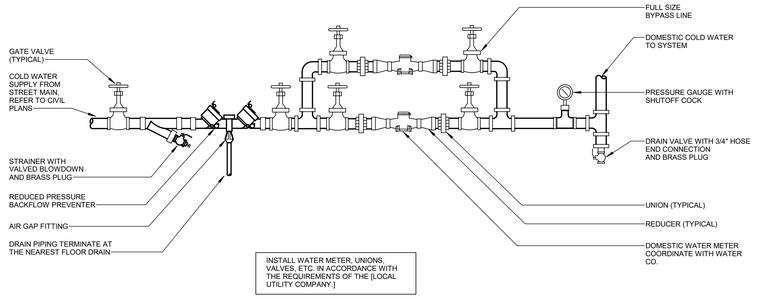
DUAL TEMPERATURE FAUCETS

2 LAVATORY MIXING VALVE DETAIL
NTS



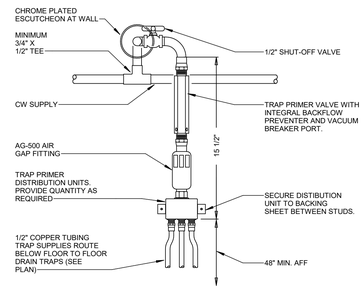
NOTES:
1. PROVIDE BALANCE VALVE ABOVE CEILING. PROVIDE WITH A LOCKABLE ACCESS DOOR IF LOCATED IN A HARD CEILING.
2. EACH LAV SHALL BE SERVED BY A MIXING VALVE INSTALLED BEHIND A LOCKABLE ACCESS DOOR LOCATED 15" TO 17" A.F.F.
3. REFER TO FLOOR PLANS FOR PIPE SIZES AND TYPE/QUANTITY OF FIXTURES.
4. THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE HOT WATER CIRCULATION PIPING TO A FIXTURE. NOT ALL FIXTURE REQUIREMENTS, FITTINGS AND DEVICES ARE SHOWN.

6 TYPICAL GROUP LAVATORY PIPING DETAIL
NTS



INSTALL WATER METER, UNIONS, VALVES, ETC. IN ACCORDANCE WITH THE REQUIREMENTS OF THE [LOCAL UTILITY COMPANY.]

5 DOMESTIC WATER SERVICE DIAGRAM
NTS



NOTE:
1. TRAP PRIMER SHALL BE LOCATED ABOVE AN ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL WHERE REQUIRED.
2. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS, FLOOR SINKS, SHOWER DRAINS, AND INDIRECT DRAIN LOCATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER PIPE ROUTING FROM DISTRIBUTION UNIT TO ALL DRAINS NOTED ABOVE.
4. PROVIDE PRECISION PLUMBING "PRIME-RITE" MODEL# PR-500 TRAP PRIMER WITH DISTRIBUTION UNITS MODEL #DU-U AS REQUIRED FOR THE NUMBER OF FLOOR DRAINS SHOWN ON THE DRAWINGS. PROVIDE ADDITIONAL TRAP PRIMERS FOR AREAS WITH MORE THEN 3 FLOOR DRAINS.

4 TRAP PRIMER DETAIL
NTS

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PLUMBING DETAILS

P5.00

3/8/2022 1:50:44 PM

WATER HEATER SCHEDULE-ELECTRIC

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	FUEL TYP E	ELEMENTS	STORAGE CAPACITY GALLONS	RECOVERY IN GPH AT 90°F RISE	HW STORAGE TEMP.	ELEC DATA HP-VOLTS-PH	REMARKS
WH-1	RHEEM PROE20	S	BASEMENT MECH ROOM	ELEC	1	19.9	17	140	120V-1Ø	2000 WATT HEATING ELEMENT

TYPE
S = STORAGE TYPE HEATER
I = INSTANTANEOUS TYPE HEATER

REMARKS-ELEMENTS
1. SINGLE ELEMENT
2. DUAL ELEMENT-NON-SIMULTANEOUS
3. DUAL ELEMENT-SIMULTANEOUS

PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVED	CAPACITY	CAPACITY FT OF HEAD	FLUID TEMP (F°)	ELEC. DATA	REMARKS
RP-1	TACO MODEL # 009	IL	MECHANICAL ROOM	DOMESTIC HW RECIRC WH-1	2 GPM	27.0	110°F	115 V / 1/8 HP / 0.029 KW	1,2
SP-1	HYDROMATIC MODEL# SHEF45A2 ME45AC-11	SP	MECHANICAL ROOM	SANITARY	20 GPM	35'	-	120 V / 1 PH 1/2 HP	3, 4 , 5, 6

NOTES:
IL = IN-LINE PUMP
SP = SUBMERSIBLE PUMP

REMARKS:
1. PUMP SHALL BE BRONZE FOR DOMESTIC WATER USE
2. PROVIDE WITH PACKAGED THERMOSTATIC MIXING STATION
3. PROVIDE SHUTOFF VALVES. SUBMERSIBLE PUMP WITH INTEGRAL CHECK VALVES, HIGH WATER ALARM SYSTEM FOR MONITORING HIGH LIQUID LEVELS, FLOAT SWITCH, ALARM LIGHT BUZZER
4. CONTROL PANEL: SHALL BE SUPPLIED BY THE PUMP MANUFACTURER TO ENSURE COMPLEETE COMPATIBILITY WITH THE PUMPS AND THE BALANCE OF THE EQUIPMENT. THE CONTROL PANEL SHALL BE NEMA 1. OIL SMART SIMPLEX PANEL MODEL OSSIM-TP-1
5. OIL/WATER DETECTION PUMP PACKAGE WITH CONTROL PANEL, REMOTE ALARM
6. PROVIDE WITH AUXILLARY CONTACTS FROM PUMP MANUFACTURER FOR HIGH AND LOW LEVEL WATER ALARM CONDITIONS. COORDINATE INTEGRATION TO BMS WITH ATC AND DIVISION 23

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION	TEMPID WATER
LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	-
SINK	1 1/2"	1 1/2"	1/2"	1/2"	-
URINAL	2"	1 1/2"	3/4"	-	-
WATER CLOSET (FLUSH TANK)	4"	2"	1 1/4"	-	-
HOSE BIB (CW ONLY)	-	-	1/2"	-	-

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS.
2. ALL PIPE TRAPS AT SINKS AND LAVATORIES SHALL BE CHROME PLATED BRASS.

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	CONFIGURATION	TANK VOLUME (GAL)	MIN. ACCEPTANCE VOLUME (GAL)	SIZE (DIA X H)	REMARKS
PET-1	AMTROL ST-5C-DD	B/V	MECH ROOM	VERTICAL	2.1	.9	8"X14"	1-3

TYPES:
B = BLADDER EXPANSION TANK
D = DIAPHRAGM EXPANSION TANK
BT = BUFFER TANK

CONFIGURATION:
H = HORIZONTAL
V = VERTICAL

REMARKS:
1. PROVIDE ALL REQUIRED TANK FITTINGS AND VALVES.
2. MAXIMUM TANK PRESSURE: 125 PSI
3. MINIMUM TANK PRESSURE: 15 PSI

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
FCO-1	JR.SMITH MODEL # 4023S-PB-U	FLOOR CLEANOUT: CAST IRON BODY, ROUND ADJUSTABLE SCORIATED POLISHED BRONZE TOP, FLANGE GASKET INSIDE CAULK OUTSIDE, VANDAL PROOF & BRONZE PLUG.		-	#6
FD-1	JR.SMITH MODEL # 2010C-U-P050	FLOOR DRAIN: CAST IRON BODY, ROUND ADJUSTABLE NICKEL BRONZE STRAINER, VERIFY IF FLASHING COLLAR SEDIMENT BUCKET IS NEEDED.	VANDAL PROOF GRATE PROVIDE WITH TRAP PRIMER, TP-1	-	#6
FS-1	JR.SMITH MODEL # 3100C-13	FLOOR SINK: 6" DEEP RECEPTOR, NICKEL-BRONZE RIM, ALUMINUM DOME STRAINER, AND FLASHING CLAMP.	8 1/2" SQUARE NICKEL BRONZE TOP WITH 3/4" VANDAL PROOF GRATE. PROVIDE WITH TRAP PRIMER, TP-1	-	#6
HB-1	WOODFORD MODEL #B24	WALL FAUCET: VACUUM BREAKER, PROVIDE WITH LOOSE KEY HANDLE.	3/4" CW THREADED HOSE CONNECTION.	18" ABOVE FLOOR	#3,4
IM-1	GUY GRAY MODEL # 88164	ICE MAKER BOX STAINLESS STEEL ICE MAKER BOX WITH QUARTER TURN BALL VALVE	PROVIDE WATTS MODEL # LF-007 BACKFLOW PREVENTER ON 1/2" CW CONNECTION	MAX 60" AFF	#4
RPBP-1	WATTS MODEL # 009 1/4"TO 2"	REDUCED PRESSURE BACKFLOW PREVENTER: BRONZE W/ CORROSION RESISTANT INTERNAL PARTS AND SST SPRINGS.	SHUTOFF VALVES: 2"BRONZE BODY BALL VALVES. PROVIDE AIR GAP & ELBOW FOR DRAIN.	MAX 5'0" AFF	#5,6

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
TP-1	PRECISION PLUMBING "PRIME-RITE" MODEL # PR-500	TRAP PRIMER: INTERNAL VACUUM BREAKER AND BACKFLOW PREVENTER UNIT. 1/2" INLET AND OUTLET	DISTRIBUTION UNITS MODEL #DU-U AS REQUIRED FOR THE NUMBER OF FLOOR DRAINS SHOWN ON THE DRAWINGS.	-	#2
TV-1	LEONARD "ECO-MIX" MODEL # TM-26-LF	MASTER MIXING VLAVE: PACKAGED HIGH/LOW THERMOSTATIC WATER MIXING VALVE, TEMPERATURE REGULATORS, 3/4" INLETS, 3/4" OUTLET, 1/2" RETURN PIPING, 13 GPM @ 15PSI PRESSURE DROP.	BRONZE BODY, INLET CHECK STOPS, 120°F OUTLET TEMPERATURE PROVIDE WITH RP-1	MAX 5'0" AFF	#4,6
TV-2	LEONARD "ECO-MIX" MODEL # 170-LF-STSTL-REC	HANDWASHING MIXING VALVE: POINT OF USE THERMOSTATIC WATER MIXING VALVE, TEMPERATURE REGULATORS, 3/8" INLETS, 3/8" OUTLET, 2.3GPM @ 10PSI PRESSURE DROP.	BRONZE BODY, INLET CHECK STOPS, 110°F OUTLET TEMPERATURE PROVIDE IN RECESSED STAINLESS STEEL CABINET UNDER LAV/SINK	-	#4,6
WCO-1	JR SMITH MODEL # 4402C-U	WALL CLEANOUT DUCO CAST IRON, SPIROT FERRULE CAST IRON BRONX THREAD PLUG, CLEANOUT FINISH MATCH WITH ARCHITECTURAL FINISH	VANDAL PROOF	-	#6
WHA-1	PRECISION PLUMBING MODEL # SC-500 THRU # SC-1500	WATER HAMMER ARRESTOR: BARREL FABRICATED OF TYPE "K" HARD DRAIN, COPPER W/ "O" RING SEALS.	BRASS PISTON & THREADED ADAPTER	-	#1
WHYD-1	WOODFORD MODEL #RB65	HOSE BIBB FREEZELESS, VACUUM BREAKER, BRASS ROUND BOX WITH KEY. POLISHED BRASS FINISH.	3/4"CW THREADED HOSE CONNECTION.	18" ABOVE GRADE/FLOOR	#3,4

REMARKS:
1. INSTALL SIZED PER LOAD (WSFU) RECOMMENDED BY PDI & MANUFACTURER.
2. THE TRAP PRIMER SHALL BE INSTALLED A MINIMUM OF 1 FOOT ABOVE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE.
3. PROVIDE EACH HYDRANT WITH A LOOSE KEY, CONTRACTOR SHALL VERIFY WALL THICKNESS.
4. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.
5. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE. MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE.
6. REFER TO FLOOR PLANS FOR SIZES.
7. SIZE SHALL BE 4" UNLESS NOTED OTHERWISE ON FLOOR PLANS.
8. PROVIDE WALL CLEANOUT AT BASE OF ALL SANITARY AND STORM STACKS. FURNISH WITH ACCESS DOOR OR COVER.

PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS
L-1	AMERICAN STANDARD "DECLYN" MODEL 0321.026	LAVATORY: ACCESSIBLE , WALL HUNG , SINGLE BOWL, VITREOUS CHINA LAVATORY	SYMMONS SCOT MODEL SLC-6000-G-MV SLOW- CLOSING METERING OMNI TEMPERATURE LAVATORY FAUCET WITH GRID DRAIN ASSEMBLY AND VANDAL PROOF 0.5 GPM FLOW RESTRICTOR. PROVIDE : PROVIDE JR SMITH SERIES 700 CONCEALED SUPPORT	#1,2,3,4,6
S-1	ELKAY "LUSTERTONE" MODEL # LRAD331965	KITCHENETTE SINK: ACCESSIBLE, COUNTERTOP, (1) CENTER FAUCET HOLES, 19 GAUGE TYPE 304 SST, SELF RIMMING, 6.5" DEEP, 2 BOWLS	SYMMONS SERENO, CHROME PLATED FAUCET, EXTRA LONG, SINGLE LEVER 1.5 GPM, MODEL # S-2302-PD-1.5, CHROME PLATED GRID DRAIN ASSEMBLY # LKAD-18	#1,2,3,4,6

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS
U-1	AMERICAN STANDARD "WASHBROOK" MODEL #6590.001	URINAL: ACCESSIBLE, WALL HUNG, VITREOUS CHINA, 3/4" TOP SPUD, 0.125 GPF	SLOAN MODEL 186-0.125, 3/4" TOP SPUD, 0.125 GPF FLUSHOMETER WALL SUPPORT JR SMITH MODEL #0635	#1,3,4,5,7
WC-1	AMERICAN STANDARD "YORKVILLE" MODEL #209AA138.020	WATER CLOSET: ACCESSIBLE, FLOOR MOUNTED, ELONGATED VITREOUS CHINA, 1.28 GPF	GRAVITY FLUSH TOILET, BACK OUTLET, 1.28 GPF AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER	#1,3,4,5,6
WC-2	AMERICAN STANDARD "YORKVILLE" MODEL #209AA138.020	WATER CLOSET: ACCESSIBLE, FLOOR MOUNTED, ELONGATED VITREOUS CHINA, 1.28 GPF	GRAVITY FLUSH TOILET, BACK OUTLET, 1.28 GPF AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER	#1,3,4,5,6

REMARKS:
1. COLOR AS SELECTED BY THE ARCHITECT. PROVIDE SAMPLES.
2. INSTALL TRUEBRO INC. MODEL #102, HANDI LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE.
3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS.
4. PROVIDE ISOLATION VALVES AT THE PIPE CONNECTIONS.
5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS, LOCATE ABOVE AN ACCESSIBLE CEILING.
6. REFER TO ARCHITECTURAL DRAWING FOR FIXTURE MOUNTING HEIGHTS.
7. FAUCET SHALL BE LOCATED WITHIN 13" OF EDGE. COORDINATE WITH ARCHITECTURAL DRAWINGS.

ORLEANS COMMUNITY BUILDING

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: JMB
CHECKED BY: BBP

SHEET TITLE

PLUMBING SCHEDULES AND DIAGRAMS

P6.00

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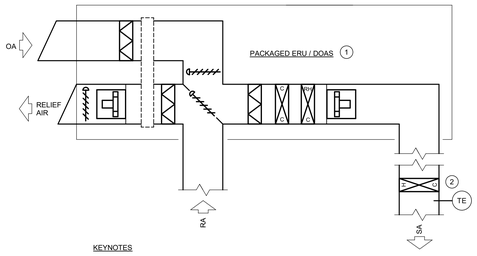


KEYNOTES

1. PACKAGED ERU. PROVIDE MANUFACTURER'S DIGITAL CONTROLLER WITH SELF-CONTAINED LOW-VOLTAGE CONTROL CIRCUIT PROTECTED BY A RESETTABLE CIRCUIT BREAKER ON THE 24-VOLT TRANSFORMER SIDE. FACTORY-MOUNTED CONTROLS SHALL INCLUDE THE FOLLOWING, AT A MINIMUM:
   - RETURN AIR TEMPERATURE SENSOR
   - OUTSIDE AIR TEMPERATURE SENSOR
   - DISCHARGE AIR TEMPERATURE SENSOR
   - RETURN AIR ENTHALPY SENSOR
   - OUTSIDE AIR ENTHALPY SENSOR
   - DIRTY FILTER SWITCH
   - SUPPLY FAN AIR PROVING SWITCH
   - LEAVING COIL TEMPERATURE SENSOR
   - CONDENSATE OVERFLOW SWITCH
   - RETURN AIR RELATIVE HUMIDITY SENSOR
   - SUPPLY LEAVING ENERGY WHEEL TEMPERATURE SENSOR
   - OTHER SENSORS AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION BELOW
2. REMOTE DUCT MOUNTED ELECTRIC HEATING COIL

SEQUENCE OF OPERATION

SAFETIES

1. UNIT SHALL INCORPORATE A LOCKOUT CIRCUIT WHICH PROVIDES RESET CAPABILITY AT THE SPACE THERMOSTAT OR BASE UNIT, SHOULD ANY OF THE FOLLOWING STANDARD SAFETY DEVICES TRIP AND SHUT OFF COMPRESSOR.
   A. LOSS-OF-CHARGE/LOW-PRESSURE SWITCH.
   B. HIGH-PRESSURE SWITCH.
   C. FREEZE CONDITION SENSOR ON EVAPORATOR COIL.
2. IF ANY OF THESE SAFETY DEVICES TRIP, THE LCD SCREEN WILL DISPLAY THE ALARM MESSAGE.
3. UNIT SHALL INCORPORATE "AUTO RESET" COMPRESSOR OVER TEMPERATURE, OVER CURRENT PROTECTION.
4. UNIT CONTROL BOARD SHALL HAVE ON-BOARD DIAGNOSTICS AND FAULT MESSAGE DISPLAY.
5. STANDARD CONTROLS SHALL INCLUDE ANTI-SHORT CYCLE AND LOW VOLTAGE PROTECTION, AND PERMIT COOLING OPERATION DOWN TO A SELECTABLE VALUE AS LOW AS 0 °F.
6. CONTROL BOARD SHALL MONITOR EACH REFRIGERANT SAFETY SWITCH INDEPENDENTLY.
7. THE ELECTRIC HEATING SECTION SHALL HAVE A PRIMARY LIMIT CONTROL(S) (AUTOMATIC RESET) TO PREVENT THE HEATING ELEMENT SYSTEM FROM OPERATING AT AN EXCESSIVE TEMPERATURE

OCCUPIED MODE

1. DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS.
2. THE DX COOLING AND ELECTRIC HEAT SHALL STAGE TO MAINTAIN SETPOINTS AS DESCRIBED BELOW.
3. IF ECONOMIZING IS ENABLED THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT.

UNOCCUPIED MODE

1. DURING UNOCCUPIED MODE THE UNIT SHALL BE OFF.

COOLING MODE:

1. DISCHARGE AIR SETPOINT SHALL BE MAINTAINED BY MODULATING THE ECONOMIZER OR STAGING THE DX COOLING AS REQUIRED TO MAINTAIN THE DISCHARGE AIR SETPOINT. ONCE ALL ECONOMIZING REQUIREMENTS HAVE BEEN MET, COMPRESSOR OPERATION WILL BE ENABLED IF THE ECONOMIZER ALONE CANNOT MEET THE DEMAND. ONCE COMPRESSOR OPERATION IS STARTED, THE VARIABLE SPEED COMPRESSOR WILL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE TO THE ACTIVE DISCHARGE AIR COOLING SETPOINT.

HEATING MODE

1. THE UNIT CONTROLLER SHALL USE THE SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR HEAT. WHEN THE SPACE TEMPERATURE DROPS BELOW THE SETPOINT, THE UNIT CONTROLLER SHALL ENABLE [GAS][ELECTRIC] HEATING STAGES TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE [GAS][ELECTRIC] HEATING STAGES SHALL BE DISABLED.

DEHUMIDIFICATION

1. FACTORY INSTALLED HOT GAS REHEAT SHALL ALLOW APPLICATION OF DEHUMIDIFICATION. DEHUMIDIFICATION SHALL BE ALLOWED ONLY WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 40.0 DEG. F AND BELOW 100.0 DEG. F. THE ECONOMIZER OUTSIDE AIR DAMPER SHALL DRIVE TO MINIMUM POSITION DURING DEHUMIDIFICATION.
2. UNIT SHALL MONITOR RETRUN AIR TEMPERATURE & HUMIDITY. IF RETURN AIR HUMIDITY IS ABOVE 60% RH, THE REHEAT VALVE SHALL ENERGIZE AND THE COMPRESSOR SHALL ENABLE. WHEN THE HUMIDITY CONTROL SETPOINT IS SATISFIED, THE VALVE SHALL BE DE-ENERGIZED AND THE COMPRESSOR SHALL BE DISABLED. IF THERE IS A CALL FOR COOLING FROM THE SPACE TEMPERATURE CONTROLLER, WHILE IN REHEAT, THE REHEAT VALVE SHALL BE DE-ENERGIZED AND THE COMPRESSOR CONTINUES TO RUN

ECONOMIZER:

1. THE UNIT SHALL MEASURE THE DRY BULB SUPPLY AIR TEMPERATURE AND DRY BULB OUTDOOR AIR TEMPERATURE AND ECONOMIZER SHALL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE DRY BULB CHANGE OVER SETPOINT. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE DISCHARGE AIR TEMPERATURE FALLS BELOW THE DISCHARGE LOW LIMIT TEMPERATURE SETPOINT. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100%.
2. OUTSIDE AIR (OA) ENTHALPY SHALL BE COMPARED WITH RETURN AIR (RA) ENTHALPY POINT. THE ECONOMIZER SHALL ENABLE WHEN OA ENTHALPY IS LESS THAN RA ENTHALPY - 3.0 BTU/LB. THE ECONOMIZER SHALL DISABLE WHEN OA ENTHALPY IS GREATER THAN RA ENTHALPY.

SUPPLY FAN

1. THE SUPPLY FAN SHALL BE ENABLED WHILE IN THE OCCUPIED MODE AND CYCLED ON DURING THE UNOCCUPIED MODE. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FAN. IF THE SWITCH DOES NOT OPEN WITHIN 40 SECONDS AFTER A REQUEST FOR FAN OPERATION A FAN FAILURE ALARM SHALL BE ANNUNCIATED AT THE BAS, THE UNIT SHALL STOP, REQUIRING A MANUAL RESET.

FILTER STATUS

1. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.

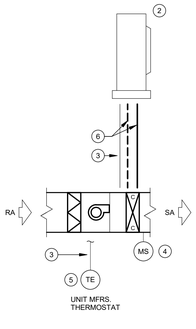
1 DOAS-1 CONTROLS & SEQUENCE OF OPERATIONS
NTS

CONTROLS LEGEND

SYMBOL	DESCRIPTION
AFMS	AIR FLOW MEASURING STATION
C	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR AND TRANSMITTER
FM	FLOW METER
AFS	FLOW SWITCH
H	HUMIDITY SENSOR
S D	SMOKE DETECTOR
T	THERMOSTAT - STAND ALONE
BMS	DDC CONTROL PANEL NETWORKED TO BMS
VFD	VARIABLE FREQUENCY DRIVE
BYP	VFD BYPASS
VRF	VRF CONTROL PANEL

ACTUATOR LEGEND

SYMBOL	DESCRIPTION
	DAMPER OR VALVE WITH TWO POSITION ACTUATOR
	DAMPER OR VALVE WITH MODULATING ACTUATOR



UNIT MFRS. THERMOSTAT

KEYNOTES

1. PACKAGED INDOOR EVAPORATOR UNIT
2. OUTDOOR CONDENSING UNIT / HEAT PUMP
3. PROVIDE WIRING IN ACCORDANCE WITH UNIT MANUFACTURER'S INSTALLATION GUIDELINES
4. PLENUM RATED, UL508 CONDENSATE OVERFLOW SWITCH MOUNTED IN PRIMARY DRAIN PAN. SWITCH SHALL BE WIRED TO DE-ENERGIZE UNIT UPON DETECTION OF OF RISING WATER (BLOCKED DRAIN) AND GENERATE A LOCAL BUZZER ALARM.
5. LOCAL WALL-MOUNTED THERMOSAT
6. REFRIGERANT LIQUID AND SUCTION LINES SIZED PER MANUFACTURER

SEQUENCE OF OPERATION

GENERAL

1. PROVIDE AC UNIT WITH MANUFACTURER'S STANDARD STAND-ALONE CONTROLS AND THERMOSTAT.

SAFETIES AND ALARMS

1. IF UL508 CONDENSATE OVERFLOW SWITCH SENSES RISING WATER (BLOCKED DRAIN), THE UNIT SHALL DEACTIVATE.

OPERATION

1. IF SPACE TEMPERATURE RISES ABOVE SETPOINT, THE UNIT'S PACKAGED CONTROLS SHALL ACTIVATE UNIT IN COOLING TO MAINTAIN SETPOINT.
2. IF SPACE TEMPERATURE DROPS BELOW SETPOINT, THE UNIT'S PACKAGED CONTROLS SHALL ACTIVATE UNIT IN HEATING TO MAINTAIN SETPOINT.

2 AC SPLIT SYSTEM
NTS

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
12x6	RECTANGULAR DUCTWORK
12"ø	ROUND DUCTWORK
12/6	OVAL DUCTWORK
12x6	DUCTWORK SHOWN SINGLE LINE
	ACOUSTICALLY LINED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	RECTANGULAR SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	ROUND SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	ROUND SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR RETURN DUCTWORK TOWARDS (UP IN PLAN)
	ROUND RETURN DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR RETURN DUCTWORK AWAY (DOWN IN PLAN)
	ROUND RETURN DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	ROUND EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	ROUND EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	FLEXIBLE DUCT
	OPEN ENDED DUCT WITH WIRE MESH SCREEN
	CAPPED DUCT
	DUCT TRANSITION

AIR DEVICE LEGEND

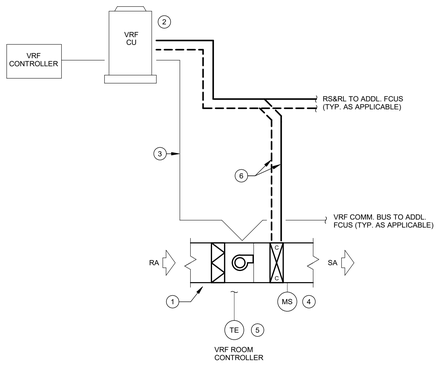
SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER
	RETURN GRILLE OR REGISTER
	EXHAUST GRILLE OR REGISTER
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER
	SUPPLY DIFFUSER (BLOW INDICATED)
	LINEAR DIFFUSER
	CHILLED BEAM
XX-# (###)	AIR DEVICE TAG (TAG NO. (AIRFLOW))

DAMPER LEGEND

SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER W/ACCESS DOOR
MD	MOTORIZED CONTROL DAMPER W/ACCESS DOOR
SD	SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
FSD	COMBINATION FIRE/SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
RD	RADIATION DAMPER
BD	BACKDRAFT DAMPER
AVD	AUTOMATIC VOLUME DAMPER (PRESSURE INDEPENDENT)

PIPING LEGEND

SYMBOL - SINGLE LINE	DESCRIPTION
	SUPPLY PIPING
	RETURN PIPING
	ELBOW UP
	ELBOW DOWN
	TEE TOWARDS (UP IN PLAN)
	TEE AWAY (DOWN IN PLAN)
	DROP AND RUN
	DIRECTION OF FLOW
	DIRT LEG
CO	CLEANOUT
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC-FLAT ON BOTTOM OR FLAT ON TOP)
	REDUCER (CONCENTRIC)
CD	CONDENSATE DRAIN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
RG	REFRIGERANT GAS
NPCW	NON-POTABLE COLD WATER



KEYNOTES

1. INDOOR EVAPORATOR UNIT. REFER TO PLANS FOR QTY. AND TYPE.
2. OUTDOOR CONDENSING UNIT / HEAT PUMP
3. PROVIDE WIRING IN ACCORDANCE WITH UNIT MANUFACTURER'S INSTALLATION GUIDELINES
4. PLENUM RATED, UL508 CONDENSATE OVERFLOW SWITCH MOUNTED IN PRIMARY DRAIN PAN. SWITCH SHALL BE WIRED TO DE-ENERGIZE UNIT UPON DETECTION OF OF RISING WATER (BLOCKED DRAIN) AND GENERATE A LOCAL BUZZER ALARM.
5. WALL-MOUNTED VRF ROOM CONTROLLER WITH CONFIGURABLE DISPLAY, TEMPERATURE SENSOR, AND OPERATOR INTERFACE WITH ON/OFF, MODE, TEMPERATURE SETPOINT, FAN SPEED CONTROLS.
6. REFRIGERANT LIQUID AND SUCTION LINES SIZED PER MANUFACTURER.

SEQUENCE OF OPERATION

GENERAL

1. INSTALL CONTROLS FURNISHED BY THE VRF SYSTEM MANUFACTURER FOR FIELD INSTALLATION. PROVIDE WIRING BETWEEN THE OUTDOOR UNITS AND THE INDOOR UNITS, THE FRONT END CONTROLLER(S), AND OTHER CONTROLS COMPONENTS FURNISHED WITH THE VRF SYSTEMS, PER THE VRF SYSTEM SHOP DRAWINGS, FOR A COMPLETE AND OPERABLE SYSTEM.
2. THE CONTROLS INTEGRAL TO THE VRF SYSTEMS SHALL CONTROL THE VRF SYSTEMS, WITH SETPOINTS, SCHEDULES, AND SIMILAR OPERATIONAL INFORMATION PROVIDED BY THE BAS TO THE VRF SYSTEMS, AND THE CONTROLS INTEGRAL TO THE VRF SYSTEMS SHALL OPERATE THE VRF SYSTEM EQUIPMENT TO MAINTAIN THOSE SETPOINTS AND SCHEDULES

ALARMS

1. A FAILURE CONDITION OF THE FAN COILS/SYSTEMS, INCLUDING CONDENSATE DRAINAGE ISSUES, SHALL INITIATE AN ALERT CONDITION.

FAN COILS

1. HEATING AND COOLING: THE FAN COIL UNIT SHALL CYCLE HEATING OR COOLING TO MAINTAIN SETPOINT AT THE MANUFACTURER'S SENSOR.

3 VRF SYSTEMS
NTS

GENERAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
CNV	CONVECTOR
APD	AIR PRESSURE DROP
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BF	BYPASS FEEDER
BHP	BREAK HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CRD	CEILING RADIATION DAMPER
CAP	CAPACITY
COP	COEFFICIENT OF PERFORMANCE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CFM	CUBIC FEET PER MINUTE
CUFT	CUBIC FEET
dB	DECIBELS
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ER	EXISTING TO BE RELOCATED
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE SMOKE DAMPER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRILLE, REGISTER, DIFFUSER
HD	HEAD
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
HZ	HERTZ
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
IN WG	INCHES WATER GAUGE
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSANDS OF BTU / HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OAT	OUTSIDE AIR TEMPERATURE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
P	PUMP
PH	PHASE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RV	RADON VENT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SG	SIGHT GLASS
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SS	STAINLESS STEEL
SST	SATURATED SUCTION PRESSURE
SOFT / SF	SQUARE FEET
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UOI	UNLESS OTHERWISE INDICED
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
X	DEMOLISH

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
B	BOILER
CUH	CABINET UNIT HEATER
CF	CENTRIFUGAL SEPARATOR
CH	CHILLER
CB	CHILLED BEAM
CHWC	CHILLED WATER COIL
CHWP	CHILLED WATER PUMP
CT	COOLING TOWER
CRAC	COMPUTER ROOM AC UNIT
CP	CONDENSATE PUMP
CWP	CONDENSER WATER PUMP
CU	CONDENSING UNIT
CV	CONVECTOR
DEF	DISHWASHER EXHAUST FAN
DAC	DUCTLESS AIR CONDITIONING UNIT
DHP	DUCTLESS HEAT PUMP
DOAS	DEDICATED OUTDOOR AIR SYSTEM
EB	ELECTRIC BASEBOARD
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ET	EXPANSION TANK
F	FAN
FCU	FAN COIL UNIT
FTR	FINNED TUBE RADIATOR
FOP	FUEL OIL PUMP
FRP	FUEL OIL RETURN PUMP
GMU	GLYCOL MAKE-UP UNIT
HX	HEAT EXCHANGER
HWC	HOT WATER COIL
H	HUMIDIFIER
HWP	HOT WATER PUMP
KEF	KITCHEN EXHAUST FAN
LB	LINEAR BAR GRILLE
LS	LINEAR SLOT DIFFUSER
MAU	MAKE UP AIR UNIT
PHX	PLATE AND FRAME HEAT EXCHANGER
P	PUMP
RHC	REHEAT COIL
RF	RETURN FAN OR RELIEF FAN
RTU	ROOFTOP UNIT
SA	SOUND ATTENUATOR
SPF	STAIR PRESSURIZATION FAN
SEF	SMOKE EXHAUST FAN
SD	SUPPLY DIFFUSER
SG	SUPPLY GRILLE
TEF	TOILET EXHAUST FAN
UH	UNIT HEATER
WSHP	WATER SOURCE HEAT PUMP

GENERAL NOTES

GENERAL

1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 23.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
4. RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE OR AS APPROVED BY THE ARCHITECT.
5. INSTALL SENSORS (TEMPERATURE, HUMIDITY, CO2, THERMOSTATS) AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ARCHITECT. MOUNTING HEIGHT AFF SHALL COMPLY WITH ADA AND SHALL BE MOUNTED LEVEL WITH ADJACENT SWITCHES (IE LIGHT SWITCHES).
6. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS.
7. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. OBTAIN APPROVAL FOR ALL PANEL LOCATIONS FROM ARCHITECT.
8. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: HVAC CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, FILTERS, BELTS, WATER COILS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
9. SUPPORT EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE OR WITH STEEL SUPPORTS AND PLATFORMS AS REQUIRED. PROVIDE VIBRATION ISOLATION FOR ROTATING EQUIPMENT, DUCTWORK AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
10. ROOF CURB AND RAIL HEIGHTS INDICATED ARE THE DIMENSIONS BETWEEN THE ROOF SURFACE AND THE TOPS OF THE CURBS AND RAILS. WHERE THE ROOF IS PITCHED, CONSTRUCT CURBS AND RAILS SUCH THAT THE BOTTOM PITCHES WITH THE ROOF AND THE TOP IS LEVEL.
11. CONTROL WIRING METHODS SHALL COMPLY WITH NEC, AND DIVISION 26 SPECIFICATIONS.
12. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
13. PERFORM PRESSURE AND LEAKAGE TESTS BEFORE INSULATING DUCTWORK AND PIPING
14. COORDINATE AND PROVIDE HOUSEKEEPING PADS FOR FLOOR-MOUNTED MECHANICAL EQUIPMENT. HOUSEKEEPING PADS SHALL BE REINFORCED CONCRETE WITH 1" CHAMFERED EDGES, 6" THICK, WITH MINIMUM CLEARANCE OF 6" FROM EQUIPMENT BASE TO EDGE OF PAD. INCREASE DEPTH WHERE REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONDENSING BOILERS (TO ALLOW PROPER INSTALLATION OF NEUTRALIZATION EQUIPMENT AND GRAVITY DISCHARGE TO FLOOR DRAIN OR CONDENSATE PUMP) AND AHU (TO ALLOW INSTALLATION OF CONDENSATE TRAP).

AIR SYSTEM SPECIFIC NOTES:

1. REFER TO SPECIFICATIONS FOR DUCTWORK CONSTRUCTION CLASSES, SEAL, AND LEAKAGE CLASSES.
2. EXTERIOR LOUVERS ARE INDICATED FOR LOCATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. PROVIDE UL FIRE DAMPERS OR SMOKE/FIRE DAMPERS AND ASSOCIATED ACCESS PANELS WHERE SHOWN ON DRAWINGS IN COMPLIANCE WITH NFPA 90A. FOR DUCTS THAT PENETRATE FIRE WALLS, FLOORS AND PARTITIONS PROVIDE SLEEVES WHERE PENETRATIONS ARE NOT PERPENDICULAR TO SURFACE PENETRATED.
4. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS OF AIR TERMINAL DEVICES.
5. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. CONTRACTOR SHALL INCREASE SHEETMETAL SIZE FOR LINER IF APPLICABLE.
6. DIFFUSER SIZES SHOWN ARE NECK SIZES: REGISTER AND GRILLE SIZE ARE NOMINAL. ALL ROUND RUN OUTS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED NECK SIZE, UNLESS NOTED AS LARGER. DUCT TRANSITIONS SHALL BE PROVIDED AS NECESSARY AT INLET TO DIFFUSER.
7. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS CONNECTING TO FANS AND AIR HANDLING UNITS UNLESS INTERNALLY ISOLATED.
8. THE INSIDE OF DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
9. ALL RETURN AIR OPENINGS ABOVE CEILING SHALL BE PROVIDED WITH A 1/4" MESH ALUMINUM OR GALVANIZED SCREEN (80% FREE AREA MINIMUM).
10. ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT WIDTH) WHERE SPACE PERMITS. WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA, OR MITERED ELBOW WITH TURNING VANES PER SMACNA.
11. NOT ALL MANUAL DAMPERS ARE SHOWN ON THE DRAWINGS IN ORDER FOR DRAWING CLARITY. PROVIDE MANUAL ADJUSTABLE DAMPERS ON EACH LOW PRESSURE SUPPLY, RETURN, AND EXHAUST DUCT TAKE OFF, AND AT EACH TAKE OFF TO REGISTERS, GRILLES, DIFFUSERS, AND OED; AS REQUIRED FOR PROPER BALANCE OF SYSTEM. PROVIDE CABLE OPERATED DAMPERS WHERE MANUAL DAMPER IS INACCESIBLE.
12. WHERE DUCTS PENETRATE WALLS WITH SOUND ISOLATION PERFORMANCE RATINGS, PROVIDE DUCT SLEEVE SIZED TO PROVIDE 1/4" GAP BETWEEN THE SLEEVE AND DUCT. FILL THE GAP WITH FIBEROUS MATERIAL AND SEAL AIRTIGHT WITH NON-HARDENING ACOUSTIC SEALANT

PIPING SYSTEM SPECIFIC NOTES:

1. PIPE CONDENSATE DRAIN LINES FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CONNECTED TO BUILDING DRAINAGE SYSTEMS WITH AIR GAP. SIZE DEPTH OF TRAP FOR ASSOCIATED AIR PRESSURE DIFFERENTIAL.
2. PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING EXCEEDING ASME ALLOWABLE STRESS ON PIPING MATERIALS.
3. PROVIDE PIPE EXPANSION JOINTS WHERE PIPES PASS THROUGH BUILDING EXPANSION JOINTS. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS.

FIRESTOPPING NOTES:

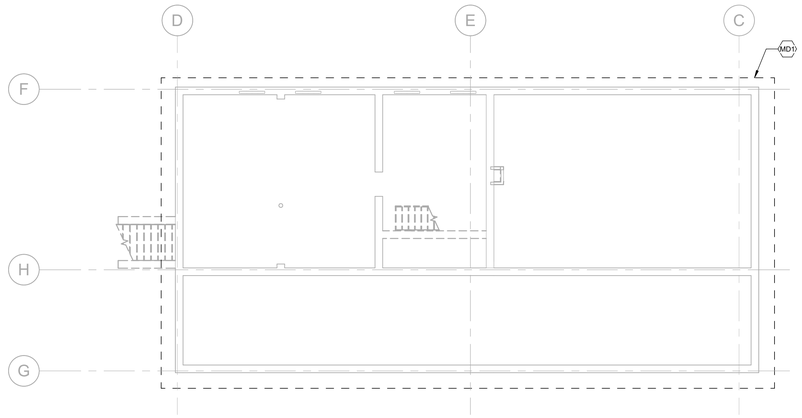
1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

VRF SYSTEM NOTES

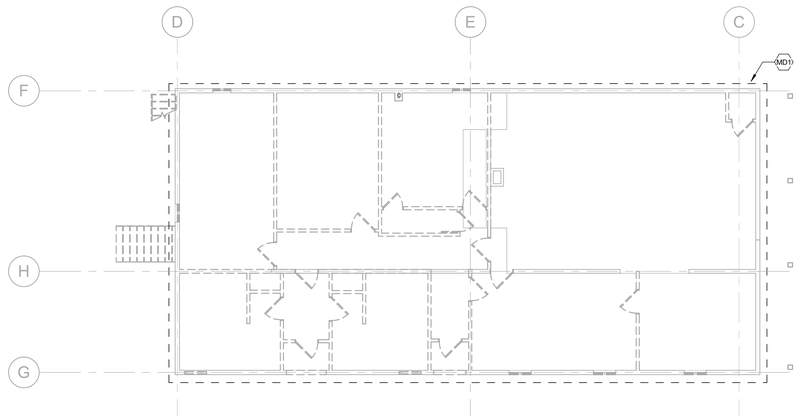
1. THE VRF SYSTEM BASIS OF DESIGN IS MITSUBISHI P-SERIES CONSISTING OF VARIABLE CAPACITY, HEAT PUMP CONDENSING UNITS CONNECTED TO MULTIPLE EVAPORATOR FAN COIL UNITS VIA A TWO-PIPE REFRIGERANT DISTRIBUTION SYSTEM. THE CONTRACTOR, BY SUBMITTING AN ALTERNATE MANUFACTURER, SHALL BE RESPONSIBLE FOR ALL SPECIFIED ITEMS AND SHALL COORDINATE ALL DEVIANCES FROM THE BASIS OF DESIGN INCLUDING ELECTRICAL CIRCUITING, PIPING, CONTROLS, PHYSICAL DIMENSIONS, DRAINS, LOCATION, ACCESS AND DISTRIBUTION SCHEME TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
2. VRF SYSTEM SHALL BE ASHRAE 15 COMPLIANT. VRF MANUFACTURER SHALL SUBMIT COMPLETE REFRIGERANT CALCULAT

MECHANICAL DEMOLITION KEY NOTES

(MD1) REMOVE ALL EXISTING MECHANICAL SYSTEMS INCLUDING BUT NOT LIMITED TO EQUIPMENT AND ASSOCIATED ACCESSORIES, DUCTWORK, PIPING, ETC. SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY. NO DUCTWORK, PIPING, HANGERS, SUPPORTS, OR EQUIPMENT SHALL BE ABANDONED IN PLACE.



1 MECHANICAL DUCTWORK BASEMENT PLAN DEMOLITION
1/8" = 1'-0"



2 MECHANICAL DUCTWORK FIRST FLOOR PLAN DEMOLITION
1/8" = 1'-0"

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KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ANK
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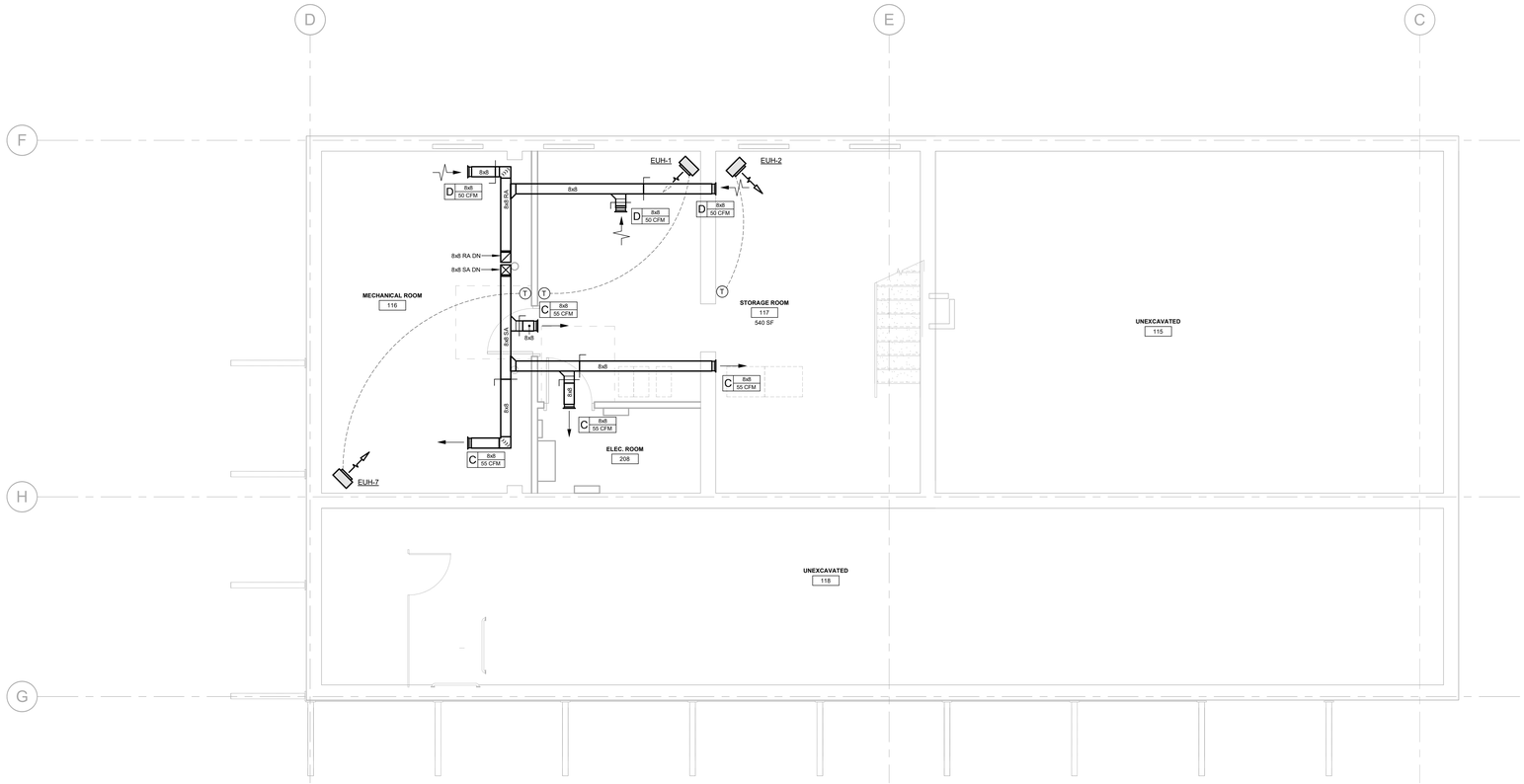
SHEET TITLE

MECHANICAL DEMOLITION FLOOR PLANS

MD1.00

MECHANICAL KEY NOTES

M1	48"x12" FABRICATED PLENUM WITH 1" ACOUSTICAL LINER. REFER TO SECTION 233100 FOR LINER SPECIFICATION.
M2	INSTALL UNIT(S) ON 6" THICK CONCRETE HOUSEKEEPING PAD. REFER TO DETAIL FOR INSTALLATION INFORMATION.
M3	24"x48"x36" DEEP PLENUM TO EXTERIOR WALL LOUVER.
M4	1-1/4" CONDENSATE TO INDIRECT DRAIN. REFER TO PLUMBING PLANS FOR SANITARY AND VENT ROUTING. REFER TO PLUMBING CONDENSATE DETAIL.
M5	LINEAR SLOT DIFFUSER TO BE PART OF A LONGER ASSEMBLY WITH A CONTINUOUS APPEARANCE. PROVIDE ALL ACCESSORIES AND BLANK OF SECTIONS AS REQUIRED. REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.
M6	PROVIDE 1-1/4" CONDENSATE TO NEAREST FLOOR DRAIN



1 MECHANICAL DUCTWORK BASEMENT PLAN
1/4" = 1'-0"

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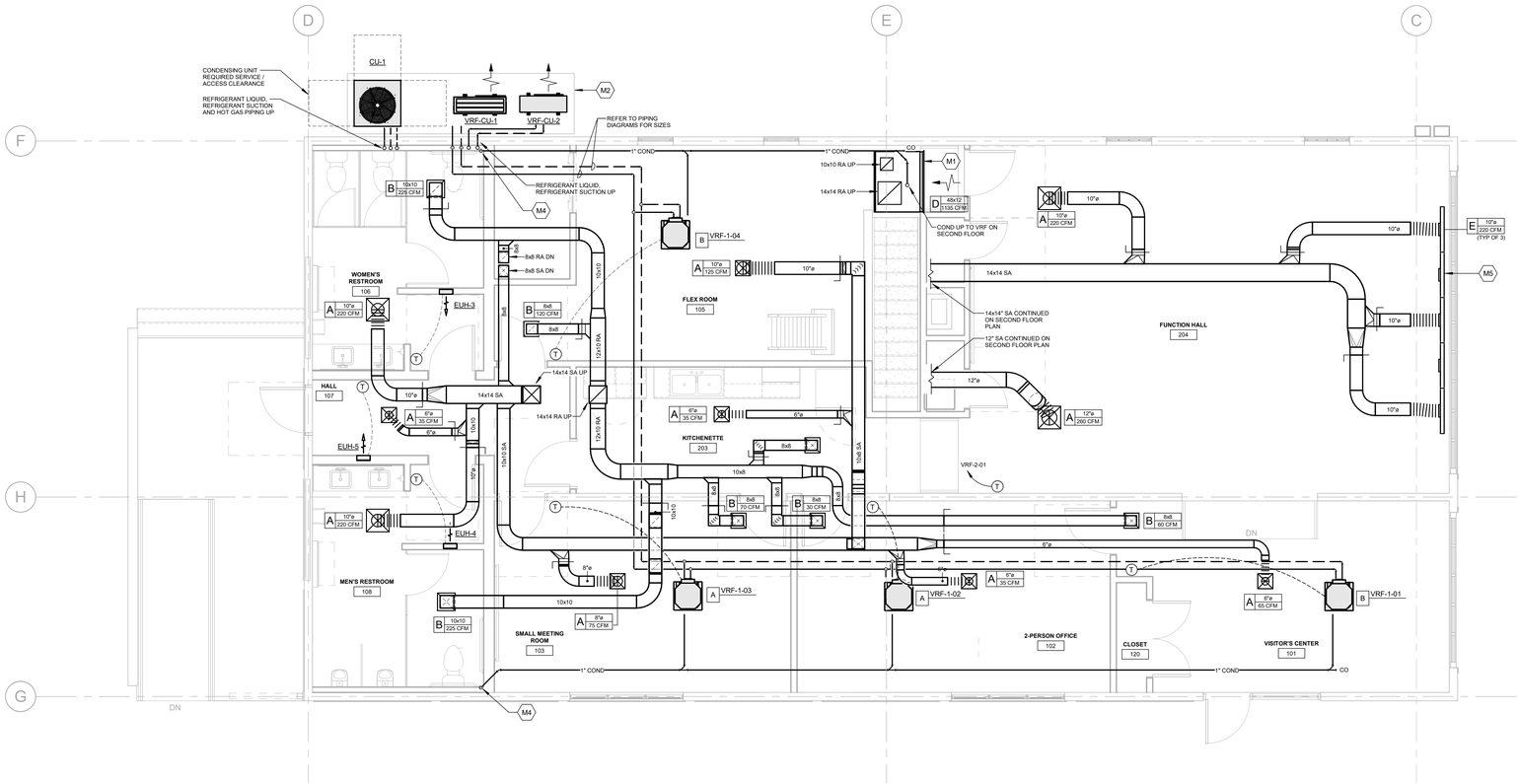
MECHANICAL BASEMENT FLOOR PLAN

M1.00

MECHANICAL KEY NOTES

M1	48"x12" FABRICATED PLENUM WITH 1" ACOUSTICAL LINER. REFER TO SECTION 233100 FOR LINER SPECIFICATION.
M2	INSTALL UNIT(S) ON 6" THICK CONCRETE HOUSEKEEPING PAD. REFER TO DETAIL FOR INSTALLATION INFORMATION.
M3	24"x48"x36" DEEP PLENUM TO EXTERIOR WALL LOUVER.
M4	1-1/4" CONDENSATE TO INDIRECT DRAIN. REFER TO PLUMBING PLANS FOR SANITARY AND VENT ROUTING. REFER TO PLUMBING CONDENSATE DETAIL.
M5	LINEAR SLOT DIFFUSER TO BE PART OF A LONGER ASSEMBLY WITH A CONTINUOUS APPEARANCE. PROVIDE ALL ACCESSORIES AND BLANK OF SECTIONS AS REQUIRED. REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.
M6	PROVIDE 1-1/4" CONDENSATE TO NEAREST FLOOR DRAIN



2 MECHANICAL DUCTWORK FIRST FLOOR PLAN
1/4" = 1'-0"

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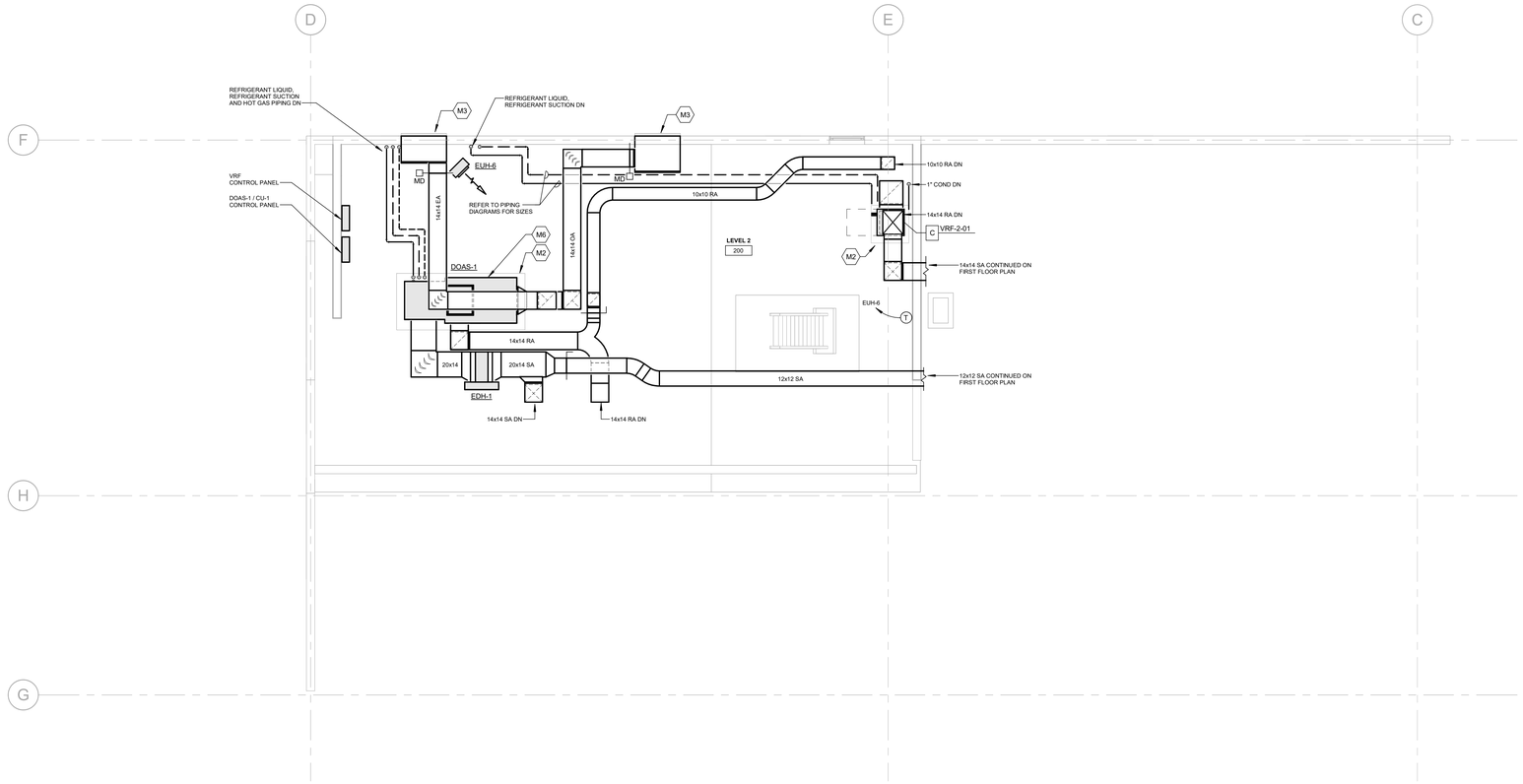
MECHANICAL FIRST FLOOR PLAN

M1.01

MECHANICAL KEY NOTES

M1	48"x12" FABRICATED PLENUM WITH 1" ACOUSTICAL LINER. REFER TO SECTION 233100 FOR LINER SPECIFICATION.
M2	INSTALL UNIT(S) ON 6" THICK CONCRETE HOUSEKEEPING PAD. REFER TO DETAIL FOR INSTALLATION INFORMATION.
M3	24"x48"x36" DEEP PLENUM TO EXTERIOR WALL LOUVER.
M4	1-1/4" CONDENSATE TO INDIRECT DRAIN. REFER TO PLUMBING PLANS FOR SANITARY AND VENT ROUTING. REFER TO PLUMBING CONDENSATE DETAIL.
M5	LINEAR SLOT DIFFUSER TO BE PART OF A LONGER ASSEMBLY WITH A CONTINUOUS APPEARANCE. PROVIDE ALL ACCESSORIES AND BLANK OF SECTIONS AS REQUIRED. REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.
M6	PROVIDE 1-1/4" CONDENSATE TO NEAREST FLOOR DRAIN



1 MECHANICAL DUCTWORK SECOND FLOOR PLAN
1/4" = 1'-0"

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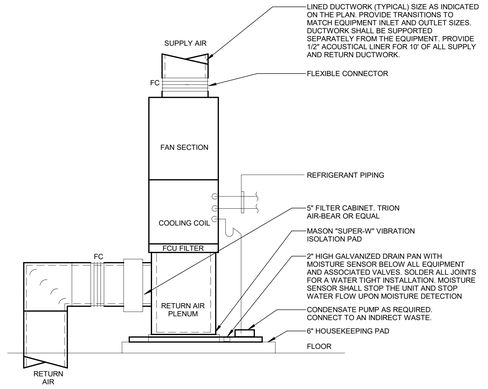
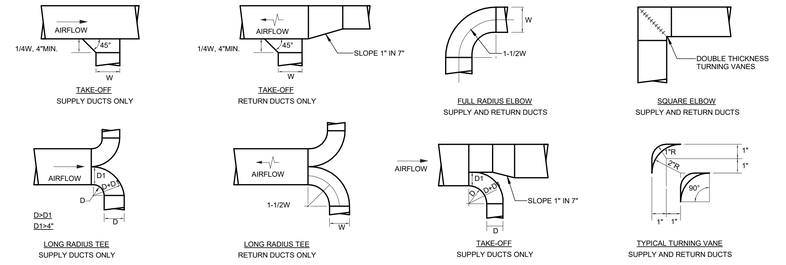
MECHANICAL SECOND FLOOR PLAN

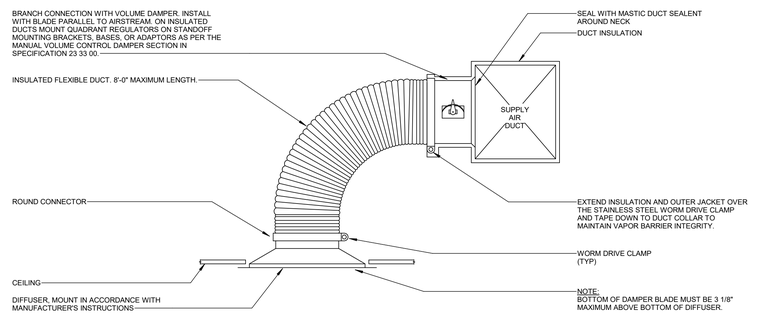
M1.02



5 VERTICAL FAN COIL UNIT DETAIL
NTS

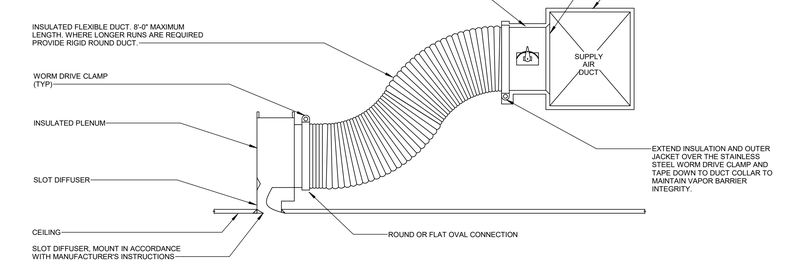


1 TYPICAL DUCT DETAILS
NTS



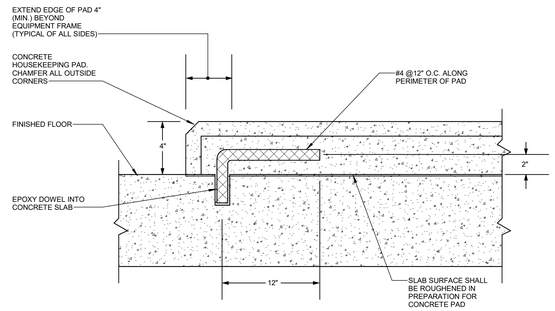
NOTES:
1. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. PROVIDE REGULATORS WHERE VOLUME DAMPER IS ACCESSIBLE.
3. IN UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.

2 DIFFUSER WITH FLEX DUCT DETAIL
NTS



NOTES:
1. ALL INTERIOR EXPOSED SURFACES OF SLOT DIFFUSER/PLENUM ARE TO BE PAINTED FLAT BLACK.
2. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
3. PROVIDE REMOTELY ACTIVATED VOLUME DAMPER WHERE VOLUME DAMPER IS INACCESSIBLE. VOLUME DAMPER IS TO BE ADJUSTED THROUGH FACE OF THE DIFFUSER.

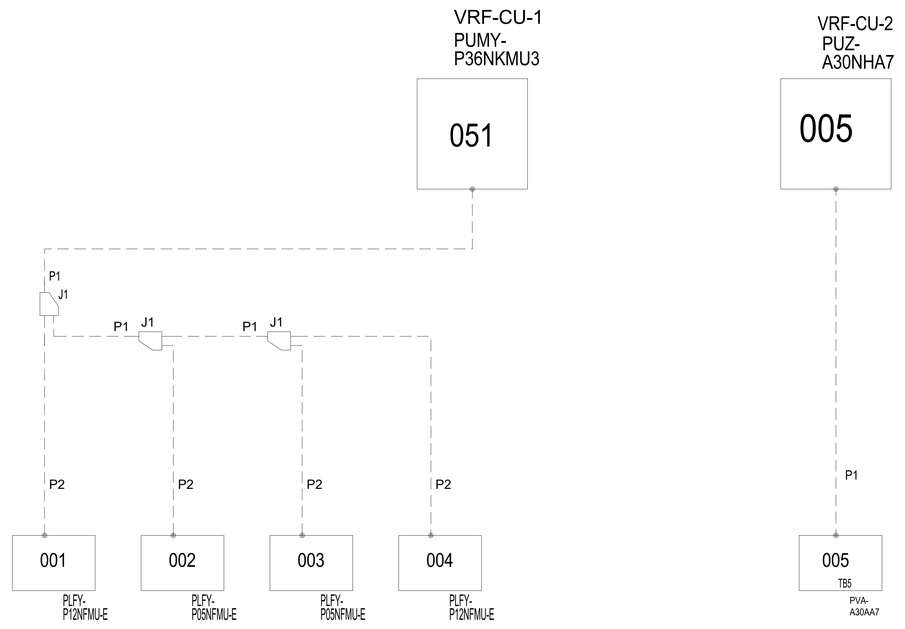
3 DIFFUSER WITH FLEX DUCT DETAIL
NTS



NOTE: PROVIDE PAD DIMENSIONS AND ANCHOR BOLT SIZES TO SUIT EQUIPMENT.

4 CONCRETE HOUSEKEEPING PAD
NTS

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-Y62-G-E
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 1/2
SYMBOL	MODEL NUMBER
MA	PAR-CT01MAU-SB



6 VRF REFRIGERANT PIPING DIAGRAMS
NTS

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MECHANICAL DETAILS

M5.00

DEDICATED OUTDOOR AIR UNIT SCHEDULE (PART 1)

SEE PART 2

GENERAL			PHYSICAL		OUTSIDE AIR		SUPPLY FAN							EXHAUST FAN						DX COIL							
									PHYSICAL							PHYSICAL							AIR DATA				
TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	L x W x H (IN.)	CFM	%	TOTAL AIRFLOW (CFM)	ESP	FAN QTY.	WHEEL DIA. (IN)	RPM	BHP	MOTOR HP	TOTAL AIRFLOW (CFM)	ESP	FAN QTY.	WHEEL DIA. (IN)	RPM	BHP	MOTOR HP	TOTAL MBH	SENS. MBH	FACE VELOC. (FPM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	P.D. (IN.WG)
DOAS-1	AAON	V3 SERIES	2000	90.25" x 36.25" x 52"	1500	100	1500	3.05	1	16	2600	1.42	2.3	1500	1.71	1	16	2600	0.90	2.3	57.8	43.4	410	79.2	65.2	51.95	51.61	-

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. INDOOR, HORIZONTAL CONFIGURATION, ENERGY RECOVERY UNIT WITH SPLIT DX COOLING.	1. AIR HANDLING PERFORMANCE DATA IN ACCORDANCE WITH ARI 430.	1. DIRECT DRIVE SUPPLY & EXHAUST FANS WITH EC MOTORS & SPRING ISOLATION. 2. SPLIT UNIT WITH HEAT PUMP / CONDENSING UNIT LOCATED AT GRADE. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION. 3. MODULATING HOT GAS REHEAT. 4. POLYMER ENERGY RECOVERY WHEEL. 5. RECIRC DAMPER. 6. 2" MERV 8 PRE-FILTERS WITH 4" MERV 13 FINAL FILTERS. 7. STAINLESS STEEL COOLING COIL DRAIN PAN. 8. HINGED ACCESS DOORS. 9. FACTORY CONTROLS; FIELD WIRING OF SPLIT HEAT PUMP REQUIRED.	1. UNIT SHALL BE INSTALLED ON 6" BASE RAIL. 2. INSTALL REFRIGERANT PIPING BETWEEN INDOOR UNIT AND OUTDOOR UNIT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. 3. CONNECT ALL DUCTWORK TO UNIT USING FLEXIBLE DUCT CONNECTORS. 4. PROVIDE CONDENSATE TRAP & PIPING. PIPE CONDENSATE TO NEAREST FLOOR DRAIN.

DEDICATED OUTDOOR AIR UNIT SCHEDULE (PART 2)

SEE PART 1

HOT GAS REHEAT			ENERGY RECOVERY												AIR-SOURCE HEAT PUMP								ELECTRICAL				REMARKS			
				SUPPLY AIR DATA - WINTER				SUPPLY AIR DATA - SUMMER					RECOVERED MBH		EFFECTIVENESS		PERFORMANCE			AIR DATA											
				EAT(°F)		LAT(°F)		EAT(°F)		LAT(°F)									EAT (°F)		LAT (°F)										
CAPACITY (MBH)	EAT (°F)	LAT (°F)	TYPE	DB	WB	DB	WB	DB	WB	DB	WB	MAX PD (IN WC)	WIN-TER	SUM-MER	WIN-TER	SUM-MER	NOMINAL MBH	AMBIENT TEMP. (°F)	COP	DB	WB	DB	WB	P.D. (IN.WG)	MCA	MOP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
29.0	70.0	58.8	WHEEL	0	0	48.02	37.30	90	72	49.27	65.23	0.66	91.58	35.61	70.8%	69.1%	52.2	47.0	3.09	63.2	48.0	95.0	60.9	-	14	15	230	1	1	-	-	-

DIFFUSER AND REGISTER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DUTY	TYPE	BORDER TYPE	CONSTRUCTION			REMARKS
					OBD	FRAME	BLADES	
A	KRUEGER BHPC	SUPPLY	DD	LAY IN	NONE	STEEL	STEEL	
B	KRUEGER S85	RETURN	LF	LAY IN	NONE	STEEL	STEEL	
C	KRUEGER AF880	SUPPLY	SW	SURFACE MOUNT	NONE	STEEL	STEEL	2
D	KRUEGER S80	RETURN/ EXHAUST	LF	SURFACE MOUNT	NONE	STEEL	STEEL	
E	KRUEGER 1900	SUPPLY	LS	LAY-IN T-BAR	NONE	ALUMINUM	ALUMINUM	1, 3

TYPES:
DD - DIRECTIONAL DIFFUSER
LF - LOUVERED FACE
LS - LINEAR SLOT
SW - SIDEWALL REGISTER

REMARKS:

1. MECHANICAL CONTRACTOR SHALL FABRICATE A 4'-0"L x 10"H x 5" DEEP INSULATED PLENUM.
2. MECHANICAL CONTRACTOR SHALL FIELD INSTALL REMOTE CABLE OPERATED VOLUME CONTROL DAMPER.
3. PROVIDE BLANKOFF STRIPS FOR INACTIVE SECTIONS. PROVIDE CUSTOM CURVING AS NECESSARY, COORDINATE WITH ARCHITECT.

SPLIT HEAT PUMP SYSTEM COMPRESSOR UNIT SCHEDULE

GENERAL				PHYSICAL		PERFORMANCE DATA						ELECTRICAL				REMARKS			
						COOLING				HEATING									
TAG	MANUFACTURER	MODEL	MATCHED UNIT	WEIGHT (LBS)	# OF COMP.	NOMINAL TONS	AMBIENT TEMP. (°F)	EER	SEER	NOMINAL MBH	AMBIENT TEMP. (°F)	COP	MCA	MOP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
CU-1	AAON	CBB-060	DOAS-1	281	1	5	90	13.1	-	60	47	3.09	35	60	230	1	1	1	1	1

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. SCROLL COMPRESSOR(S), R-410A	1. SEE DEDICATED OUTSIDE AIR UNIT SCHEDULE FOR COOLING AND HEATING CAPACITIES AND EFFICIENCIES	1. MODULATING CONDENSER FAN PRESSURE CONTROL. 2. HOT GAS REHEAT CIRCUIT.	1. MOUNT UNIT ON 4" THICK REINFORCED CONCRETE PAD WITH 1" CHAMFERED EDGES. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

VRF FAN COIL SCHEDULE

GENERAL				PERFORMANCE					ELECTRICAL			REMARKS			
							FAN								
TAG	MANUFACTURER	MODEL	LOCATION	NOMINAL TONS	NET COOLING MBH	NET HEATING MBH	CFM	ESP (IN WG)	SOUND PRESS. (dBA)	MCA	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
A	MITSUBISHI	PLFY-P05NFMU-E	SEE FLOORPLANS	0.5	5,000	5,000	280	-	26 - 30	0.24	230	1	1	1	1	1
B	MITSUBISHI	PLFY-P12NFMU-E	SEE FLOORPLANS	1	12,000	13,500	335	-	26 - 34	0.29	230	1	1	1	1	1
C	MITSUBISHI	PVA-A30AA7	SEE FLOORPLANS	2.5	30,000	34,000	875	0.8	30 - 38	4.13	230	1	2	1	1	1

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. CEILING RECESSED, FOUR WAY, 24"x24" 2. MULTI-POSITION, DUCTED	1. COOLING MBH AT 80°F EDB, 67°F EWB, 95°F ODB. HEATING MBH AT 70°F EDB, 47°F ODB, 43°F OWB.	1. CONDENSATE LIFT PUMP	1. REFER TO PIPING DIAGRAM FOR REFRIGERANT LIQUID AND GAS PIPE SIZES AND SCHEMATIC.

VARIABLE REFRIGERANT FLOW (VRF) COMPRESSOR UNIT SCHEDULE

GENERAL				PERFORMANCE							ELECTRICAL				REMARKS			
					COOLING			HEATING										
TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	NOMINAL TONS	MBH	EER	IEER	MBH	COP	SOUND PRESS (dBA)	MCA	MOP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
VRF-CU-1	MITSUBISHI	PUMY-P36NKMU3	275	3	36	15.0	-	42	4.0	53.0	29	44	230	1	1	1, 2	1-4	1, 2
VRF-CU-2	MITSUBISHI	PUZ-A30NHA7	150	2.5	30	10.0	-	30	2.5	38	19	26	230	1	1	1, 2	1-4	1, 2

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. HEAT PUMP, SCROLL COMPRESSOR(S), R-410A	1. COOLING MBH AT 80°F EDB, 67°F EWB, 95°F ODB. HEATING MBH AT 70°F EDB, 47°F ODB, 43°F OWB. 2. SOUND PRESSURE LEVELS PER ISO STANDARD 1996	1. HEATING TO -13°F ODB 2. DEFROST HEATER 3. WIND BAFFLES 4. SEACOST COIL PROTECTION	1. REFER TO PIPING DIAGRAM FOR SIZES 2. MOUNT UNIT ON 4" THICK REINFORCED CONCRETE PAD WITH 1" CHAMFERED EDGES

ELECTRIC UNIT HEATER SCHEDULE

GENERAL				PERFORMANCE				ELECTRICAL			REMARKS			
TAG	MANUFACTURER	MODEL	LOCATION	MBH	CFM	FAN SPEED	LAT (°F)	kW	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
EUH-1	QMARK	MUH03-21	BASEMENT	10.2	350	800	90	3.0	240	1	1	1	1-3,5	1
EUH-2	QMARK	MUH03-21	BASEMENT	10.2	350	800	90	3.0	240	1	1	1	1-3,5	1
EUH-3	QMARK	CWH1202DSF	FIRST FLOOR	6.8	65	-	90	2.0	240	1	2	1	1-4	1
EUH-4	QMARK	CWH1202DSF	FIRST FLOOR	6.8	65	-	90	2.0	240	1	2	1	1-4	1
EUH-5	QMARK	CWH1202DSF	FIRST FLOOR	6.8	65	-	90	2.0	240	1	2	1	1-4	1
EUH-6	QMARK	MUH03-21	SECOND FLOOR	10.2	350	800	90	3.0	240	1	1	1	1-3,5	1
EUH-7	QMARK	MUH03-21	BASEMENT	10.2	350	800	90	3.0	240	1	1	1	1-3,5	1

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. COMMERCIAL, HORIZONTAL UNIT HEATER. 2. RECESSED, WALL MOUNTED.	1. LAT AT 60°F INLET AIR TEMPERATURE.	1. MANUAL RESET OVERTEMPERATURE CUT-OUT. 2. DISCONNECT SWITCH. 3. BUILT-IN FAN / AUTO / ON SWITCH 4. RECESS MOUNTING FRAME. 5. PROVIDE MOUNTING HARDWARE & BRACKETS.	1. PROVIDE WITH LINE VOLTAGE THERMOSTAT. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.

ELECTRIC DUCT HEATER SCHEDULE

GENERAL				PHYSICAL		PERFORMANCE						ELECTRICAL			REMARKS			
TAG	MANUFACTURER	MODEL	LOCATION	DUCT WIDTH (IN)	DUCT HEIGHT (IN)	KW	STAGES	MBH	CFM	APD (IN WG)	LAT (°F)	AMPS	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
EDH-1	NEPTRONICS	DF C100H	SECOND FLOOR AT DOAS-1	30	15	15	2	51.18	1500	-	75	62.5	240	1	1	1	-	-

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. OPEN COIL HEATING ELEMENT, FLANGED CONFIGURATION	1. 45°F ENTERING AIR TEMPERATURE.	1. DUST TIGHT TERMINAL BOX. 2. PROPORTIONAL CONTROLS INCLUDING AUTOMATIC AND MANUAL RESET THERMAL CUTOUTS, DIFFERENTIAL PRESSURE AIRFLOW SWITCH, DE-ENERGIZING MAGNETIC CONTACTORS, FUSES, 24 VOLT CONTROL CIRCUIT TRANSFORMER, DISCONNECT SWITCH, SCR PROPORTIONAL POWER CONTROLLERS, DUCT MOUNTED THERMOSTAT INPUT CONTROL SIGNAL COMPATIBLE WITH DOAS CONTROLLER.	1. DUCT MOUNTED. ENLARGE/REDUCE DUCTWORK AS REQUIRED TO MATCH COIL SIZE.

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ANK
CHECKED BY: BBP

SHEET TITLE

MECHANICAL SCHEDULES AND DIAGRAMS

M6.00

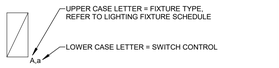
ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAL WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT OR COPPER
CUH	CABINET UNIT HEATER
D	DRYER
DEG.	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EMERGENCY PANEL
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE-UP AIR UNIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE OR MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NE	NEW DEVICE INSTALLED IN SAME LOCATION AS EXISTING REMOVED DEVICE
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED DEVICE
NR	NEW TO REPLACE EXISTING
NTS	NOT TO SCALE
P	POLE
PE	PRIMARY ELECTRIC SERVCE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	EXISTING TO BE REMOVED
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	EXISTING TO BE RELOCATED
RM	ROOM
RN	EXISTING TO BE REMOVED AND REPLACED WITH NEW (EXISTING BACKBOXES, CONDUIT AND WIRING TO REMAIN)
RR	EXISTING TO BE RELOCATED IN SAME LOCATION ON NEW SURFACE
RTU	ROOFTOP UNIT
SE	SECONDARY ELECTRICAL SERVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SPD	SURGE PROTECTION DEVICE
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TELEVISION
T/TX	TRANSFORMER
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
W	WATT OR WIRE
WA	WASHER
WG	WIRE GUARD
WP	WEATHERPROOF

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
INITIATING DEVICES	
S	CEILING MOUNTED SMOKE DETECTOR
H	CEILING MOUNTED HEAT DETECTOR WITH TEMPERATURE RATING OF 135 DEGREES UNLESS OTHERWISE NOTED
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF
CO	CEILING MOUNTED CARBON MONOXIDE DETECTOR
NOTIFICATION	
XX	WALL MOUNTED COMBINATION SPEAKER / STROBE LIGHT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING
XX	WALL MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING
XX c	CEILING MOUNTED COMBINATION SPEAKER/STROBE LIGHT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING
XX c	CEILING MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING
INTERFACE MODULES	
MM	FIRE ALARM MONITOR MODULE
CM	FIRE ALARM CONTROL MODULE

LIGHTING FIXTURE TAGS

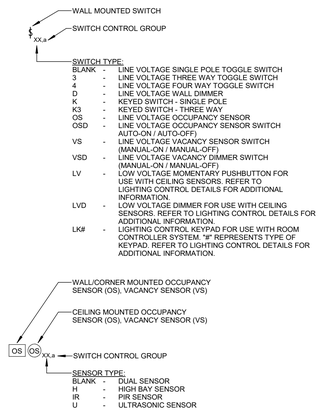


NOTES
1. FIXTURE CONTROL DESIGNATION REFERS TO ZONE/SWITCH/RELAY CONTROL OF FIXTURES CONTROLLED BY COMMON:
   A. SWITCH FOR LIGHTING IN ROOM, CORRIDOR, OPEN AREA.
   B. ZONE RELAY IN LOCAL LIGHTING CONTROL PANEL OR LIGHTING CONTROL RELAY PANEL.
   C. ALL CONTROL DEVICES (SWITCHES, CONTROL PANELS, OCCUPANCY/VACANCY SENSORS, ETC) WITH CONTROL DESIGNATIONS REFERS TO COMMON CONTROL OF THE SAME ZONE/SWITCH/RELAY CONTROL.
2. WHERE CONTROL DESIGNATION IS NOT SHOWN, ALL FIXTURES IN ASSOCIATED ROOM OR SPACE SHALL BE CONTROLLED SIMULTANEOUSLY VIA THE CONTROL DEVICES INDICATED ON PLANS.
3. WHERE EMERGENCY AND NORMAL FIXTURES ARE CONTROLLED FROM THE SAME ZONE/SWITCH/CONTROL RELAY, UL 924 EMERGENCY BYPASS RELAYS SHOWN WITH SAME CONTROL DESIGNATION BYPASS THAT ZONE/SWITCH/CONTROL RELAY. REFER TO EMERGENCY LIGHTING CIRCUIT SCHEMATICS FOR ADDITIONAL WIRING INFORMATION.
4. UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING IS SHOWN TO A SINGLE FIXTURE IN EACH COMMON CONTROL ZONE. UNLESS OTHERWISE INDICATED, PROVIDE 2#12,#12G,3/4"C FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
5. PROVIDE LOW VOLTAGE DIMMING CONTROL WIRING AS INDICATED IN LIGHTING CONTROL DETAILS FOR DIMMABLE LIGHT FIXTURES IN COMMON CONTROL ZONES/SWITCHES/RELAY CONTROL.
6. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL WIRING AND CONTROL INFORMATION.
7. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES WHERE APPLICABLE FOR ADDITIONAL CONTROL INFORMATION.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION STARTER AND DISCONNECT SWITCH
	MOTOR STARTER OR CONTACTOR
M	MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS)
M	ELECTRICAL METER
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD
	SWITCHED BRANCH CIRCUIT WIRING
J J	JUNCTION BOX
	SIMPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
XX"	DUPLEX WALL MOUNTED RECEPTACLE MOUNTED AT XX" ABOVE FINISHED FLOOR
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
a a	RECEPTACLE, MOUNT 6" ABOVE COUNTER OR CASEWORK
bc bc	RECEPTACLE MOUNTED BELOW FRONT OF COUNTER
GFI GFI	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
WP WP	RECEPTACLE WITH WEATHERPROOF COVER
c c	RECEPTACLE, CEILING MOUNTED
U U	RECEPTACLE WITH INTEGRAL USB OUTLET FOR CHARGING
AVD	POWER FEED TO (4) INTERNAL RECEPTACLES WITHIN A/V WALL BOX. REFER TO A/V DETAILS FOR WALL BOX SPECIFICATIONS.
MON	DUPLEX RECEPTACLE FOR DIGITAL SIGNAGE MONITOR. MOUNT WITHIN SAME BOX AS DATA DEVICE SHOWN ON PLANS. RECEPTACLE SHALL HAVE ONE USB-A AND ONE USB-C; 5-AMP CHARGING PORT.
	SPECIAL PURPOSE HARDWIRED CONNECTION: WIRING AS INDICATED
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND WIRING AS INDICATED
T	LINE VOLTAGE THERMOSTAT FURNISHED BY HVAC, WIRED/ INSTALLED BY EC. PROVIDE WIRING FROM SOURCE PANEL TO THERMOSTAT TO UNIT, PER MOTOR CIRCUIT SCHEDULE. THERMOSTAT SHALL BE MOUNTED IN 2-GANG BACKBOX AT 42" AFF.

LIGHTING SWITCH AND SENSOR TAGS



NOTES:

1. FIXTURE(S) SHALL BE CONTROLLED BY SWITCH OR RELAY LOCATED IN THE ROOM UNLESS OTHERWISE NOTED ON PLAN.
2. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION ON WIRING AND SWITCHING.
3. WALL MOUNTED SWITCHES SHALL BE MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT.
4. SET ALL OCCUPANCY TYPE SENSORS TO AUTO-ON, AUTO-OFF MODE. SET ALL VACANCY TYPE SENSORS TO MANUAL-ON, AUTO-OFF MODE.
5. REFER TO CONTROL SCHEME NOTES AND CONTROL SCHEDULE FOR ADDITIONAL INFORMATION.
6. REFER TO SYMBOL LIST FOR ADDITIONAL LIGHTING CONTROL DEVICES.
7. WHERE SWITCHES ARE NOT TAGGED WITH CONTROL LETTER ON PLANS, ALL FIXTURES IN ASSOCIATED ROOM SHALL BE CONTROLLED SIMULTANEOUSLY VIA CONTROLS SPECIFIED.

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	EXTERIOR BUILDING MOUNTED LIGHTING FIXTURE
	EXTERIOR BUILDING MOUNTED EMERGENCY LIGHTING FIXTURE
	SURFACE MOUNTED LIGHTING FIXTURE
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE
	PENDANT MOUNTED LIGHTING FIXTURE
	PENDANT MOUNTED EMERGENCY LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED EMERGENCY LIGHTING FIXTURE
	INDUSTRIAL OR STRIP TYPE FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE
	WALL MOUNTED EXIT SIGN, DOUBLE FACED
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN, DOUBLE FACED
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH BATTERY
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH REMOTE CAPABILITY
	REMOTE EMERGENCY HEAD

ELECTRICAL DEMOLITION NOTES

1. EXISTING ELECTRICAL DEVICES IN REGIONS OF DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE. INCLUDING BUT NOT LIMITED TO PANELBOARDS, RECEPTACLES, LIGHT FIXTURES, LIGHTING CONTROLS, TRANSFORMERS, TELECOMMUNICATION DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES, AND MECHANICAL EQUIPMENT CONNECTIONS. REMOVAL SHALL BE COMPLETE INCLUDING BOXES, BRACKETS, HANGERS AND BRANCH CIRCUIT WIRING BACK TO SOURCE PANELBOARD OR LAST ACTIVE DEVICE TO REMAIN.
2. ELECTRICAL DEMOLITION PLANS ARE DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF ELECTRICAL DEMOLITION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING DEVICES. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.
3. DEMOLITION OF EXISTING TELECOMMUNICATIONS DEVICES SHALL INCLUDE REMOVAL OF CONNECTORS, FACEPLATE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE.
4. DEMOLITION OF EXISTING SECURITY AND FIRE ALARM DEVICES SHALL INCLUDE REMOVAL OF DEVICE, CONNECTORS, MOUNTING HARDWARE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE OR LAST ACTIVE DEVICE TO REMAIN.
5. DEMOLITION OF EXISTING LIGHTING FIXTURES SHALL ALSO INCLUDE REMOVAL OF ASSOCIATED SWITCHES AND SWITCHED WIRING UNLESS OTHERWISE NOTED IN NEW WORK PLANS. LOCATIONS OF ALL SWITCHES SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION.
6. REFER TO MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR EXISTING MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. FOR THIS EQUIPMENT, DISCONNECT AND REMOVE WIRING BACK TO SOURCE AND REMOVE ASSOCIATED STARTERS, DRIVES AND DISCONNECT SWITCHES AT EQUIPMENT LOCATIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS TO BE REMOVED IN A SAFE, LEGAL AND RESPONSIBLE MANNER.
8. CONTRACTOR SHALL MODIFY EXISTING CIRCUITS, WHEN EXISTING DEVICES ARE REMOVED, AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.
9. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.

ELECTRICAL GENERAL NOTES

1. BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS WHERE POSSIBLE, INCLUDING HOMERUNS TO PANELBOARDS. BRANCH CIRCUITS AND FEEDERS SHALL NOT BE ROUTED IN OR UNDER SLAB UNLESS SPECIFICALLY INDICATED ON ELECTRICAL FLOOR PLANS OR DETAILS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. BRANCH CIRCUITS SHALL BE 2#12,#12G, 3/4"C., TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
3. 120V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
4. 277V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 250' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
5. DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
6. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED ELECTRICAL DEVICES.
7. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
8. COORDINATE LOCATIONS OF ELECTRICAL DEVICES AND CONTROLS WITH RESPECT TO LOCATIONS OF CASEWORK AND EQUIPMENT PRIOR TO ROUGH-IN.
9. WHEN DEVICES ARE SHOWN ON PLANS OFFSET FROM ONE ANOTHER, DEVICES SHALL BE MOUNTED IN LINE, CENTERED ON WALL.
10. SHARED NEUTRAL WIRING IS NOT ACCEPTABLE, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT, WHERE APPLICABLE.
11. DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS AND DIMENSIONS SHALL GOVERN EXACT LOCATION AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES AND RACEWAYS.
12. FINISHES AND COLOR OF ELECTRICAL WIRING DEVICES, EXPOSED RACEWAY, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES SHALL BE DETERMINED BY THE ARCHITECT.
13. ELECTRICAL WORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE (OTHER THAN ROOF DECK).
14. THE ELECTRICAL CONTRACTOR SHALL PERFORM CORES REQUIRED FOR ELECTRICAL WORK.
15. BUILDING WIRE AND CABLE NOT IN RACEWAY SHALL BE PLENUM RATED.
16. PROVIDE SURFACE MOUNTED RACEWAY FOR NEW DEVICES LOCATED ON EXISTING TO REMAIN CMU OR MASONRY WALLS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING SURFACE MOUNTED RACEWAY APPLICATIONS AND WIRING METHODS.

ELECTRICAL TECHNOLOGY NOTES

1. COORDINATE POWER REQUIREMENTS TO ALL CONTROLLERS AND POWER SUPPLIES WITH THE SYSTEM PROVIDER AND THE ELECTRICAL SERIES DRAWINGS.
2. COORDINATE POWER REQUIREMENTS, RECOMMENDED WIRE SIZES AND EXACT POINTS OF CONNECTION FOR ELECTRIC LOCKING HARDWARE PROVIDED BY DIVISION 08 CONTRACTOR PRIOR TO INSTALLATION. COORDINATE WITH DOOR HARDWARE SCHEDULES AND SPECIFICATIONS.
3. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. PRIOR TO ROUGH-IN, COORDINATE ALL AUDIOVISUAL AND TELECOMMUNICATIONS DEVICE BACKBOX LOCATIONS WITH OWNER-PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
5. DEVICES SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH DIVISION 26 SPECIFICATIONS FOR PROVISIONS OF RELATED INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO: HANGERS, SUPPORTS, CONDUITS, BACKBOXES AND OTHER RACEWAYS.
6. INSTALLATION OF TELECOMMUNICATIONS CONDUITS, RACEWAY AND BENDS SHALL MEET TIA RECOMMENDED INSTALLATION METHODS AND GUIDELINES. CONDUIT BENDS SHALL BE PROVIDED WITH SMOOTH SWEEPS AND BEND RADII TO MEET MANUFACTURER RECOMMENDED TOLERANCES FOR EACH CABLE THAT WITH BE ROUTED WITHIN.
7. A MINIMUM OF SIX(6) FEET OF SLACK SHALL BE PROVIDED FOR EACH HORIZONTAL CABLE DROP AT WORK AREA OUTLETS, COILED AND SECURED ABOVE ACCESSIBLE CEILING. IN AREAS WITHOUT AN ACCESSIBLE CEILING, PROVIDE CABLING COILED TIGHT TO STRUCTURE ABOVE.
8. EXPOSED TELECOMMUNICATIONS AND SECURITY CABLING SHALL BE ROUTED IN CONDUIT, ADHERING TO DIVISION 26 SPECIFICATIONS.

TECHNOLOGY DEVICE SCHEDULE

SYMBOL	DESCRIPTION	CONDUIT/ BACKBOX	CABLING	NOTES
(X)	DATA OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(X) CAT.6 CABLES TO DATA PATCH PANEL (IF NOT TAGGED, PROVIDE 2 CABLES)	SUBSCRIPT "a" = 6" ABOVE COUNTER
(X,Y)	COMBINATION OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL (IF NOT TAGGED, PROVIDE 1 OF EACH)	
	WALL PHONE	2-GANG BOX @ 48" AFF WITH 1-GANG MUD RING AND 3/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(1) CAT.6 CABLE TO VOIP PATCH PANEL	PROVIDE WITH STAINLESS STEEL RECESSED WALL PLATE FOR PHONE
POTS	POTS/ANALOG PHONE OUTLET	2-GANG BOX @ 48" AFF WITH 1-GANG MUD RING AND 3/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(1) CAT.6 CABLE TO BUILDING POTS/ PHONE DEMARCATION POINT	
TV	CABLE TELEVISION OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(1) RG6U COAXIAL CABLE TO BUILDING CATV DEMARCATION POINT	TERMINATE AT TYPE "F" CONNECTOR
XX CR	CARD READER	COMPATIBLE SINGLE GANG BOX WITH MUD RING @ 42" AFF WITH 3/4"C. STUBBED ABOVE AN ACCESSIBLE CEILING.	REFER TO SECURITY DETAILS FOR WIRING.	ADDITIONAL DEVICES AND INFRASTRUCTURE REQUIRED AT DOOR. REFER TO SECURITY DETAILS FOR ADDITIONAL REQUIREMENTS. "XX"= CARD READER TYPE, WHERE APPLICABLE.
C	VIDEO SURVEILLANCE CAMERA - CEILING OR CANOPY MOUNTED	2 - GANG BOX FLUSHED INTO SUSPENDED CEILING. IN AREAS WITH EXPOSED STRUCTURE, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	(1) CAT.6 CABLE TO SECURITY PATCH PANEL - TERMINATE AT SIEMON MX-SM1 SURFACE CONNECTOR INSIDE BACKBOX.	CAMERA SHALL BE FURNISHED AND INSTALLED BU OWNER'S SECUIRTY VENDOR
W	VIDEO SURVEILLANCE CAMERA - WALL MOUNTED	2 - GANG BOX, MOUNTED 9' -0" AFG. PROVIDE 3/4 "C. THROUGH WALL AND EXTENDED TO NEAREST ACCESSIBLE CEILING SPACE.	(1) CAT.6 CABLE TO SECURITY PATCH PANEL - TERMINATE AT SIEMON MX-SM1 SURFACE CONNECTOR INSIDE BACKBOX.	CAMERA SHALL BE FURNISHED AND INSTALLED BU OWNER'S SECUIRTY VENDOR
MON	RECESSED BOX FOR MONITOR DISPLAY	2-GANG RECESSED BOX EQUAL TO LEGRAND TV1WTVSS @ 60" AFF WITH 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(2) CAT.6 CABLES TO DATA PATCH PANEL	"MON" RECEPTACLE SHOWN ON PLANS SHALL BE MOUNTED IN SAME BACKBOX
AVD	DATA FOR AV WALL BOX	MOUNTED WITHIN ADJACENT AUDIOVISUAL WALL BOX	(2) CAT.6 CABLES TO DATA PATCH PANEL	TERMINATE AT DEDICATED FACEPLATE WITH RJ45 CONNECTORS IN WALL BOX
AVC	DATA FOR AV CEILING BOX	MOUNTED WITHIN ADJACENT AUDIOVISUAL CEILING BOX	(2) CAT.6 CABLES TO DATA PATCH PANEL	TERMINATE DATA CABLE IN SHELF-MOUNTED SURFACE BOX WITHIN CEILING BOX (SIEMON MX-SM1 OR EQUAL)
(X) AV	AUDIO-VIDEO SYSTEM COMPONENT	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR BACKBOX AND CONDUIT REQUIREMENTS.	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR CABLING REQUIREMENTS.	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR DESIGNATION AND DEVICE SPECIFICATIONS.
(X) AV	AUDIO-VIDEO SYSTEM SPEAKER	SPECIALTY BACKBOX PURCHASED WITH SPEAKER. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR CABLING REQUIREMENTS.	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR DESIGNATION AND DEVICE SPECIFICATIONS.

GENERAL NOTES:
1. ALL CONDUITS SHALL STUB UP TO NEAREST ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE BUSHINGS FOR ALL CONDUITS. WHERE DEVICES ARE LOCATED BELOW A WINDOW OR STOREFRONT STRUCTURE, CONDUITS SHALL RUN HORIZONTAL TO ACCESSIBLE WALL BEFORE STUBBING UP.
2. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
3. ALL FINISHES, COLORS AND COVER MATERIALS SHALL BE SELECTED BY ARCHITECT.
4. WHERE BACKBOXES ARE LOCATED IN A FIRE RATED WALL, PROVIDE FIRE RATED MOLDABLE PUTTY AROUND BOX, EQUAL TO 3M BARRIER MPP+.
5. DATA CABLING SHALL BE ROUTED TO PATCH PANELS IN I.T. ROOMS INDICATED ON FLOOR PLANS. TERMINATE CABLING AT SPECIFIC PATCH PANELS INDICATED IN I.T. RACK ELEVATIONS.
6. CONTRACTOR SHALL LABEL EACH DEVICE TERMINATION POINT AND CORRESPONDING PATCH PANEL PORT WITH THE SAME, UNIQUE LABEL. REFER TO SPECIFICATIONS FOR MORE INFORMATION. ALL LABELS SHALL BE FINALIZED WITH AND APPROVED BY OWNER'S I.T. STAFF PRIOR TO INSTALLATION.
7. PROVIDE ALL NECESSARY CONNECTORS, ADAPTERS, KEYSTONES, ATTACHMENTS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. TERMINATE ALL STRUCTURED CABLING CABLES IN RJ45 CONNECTORS UNLESS OTHERWISE NOTED.

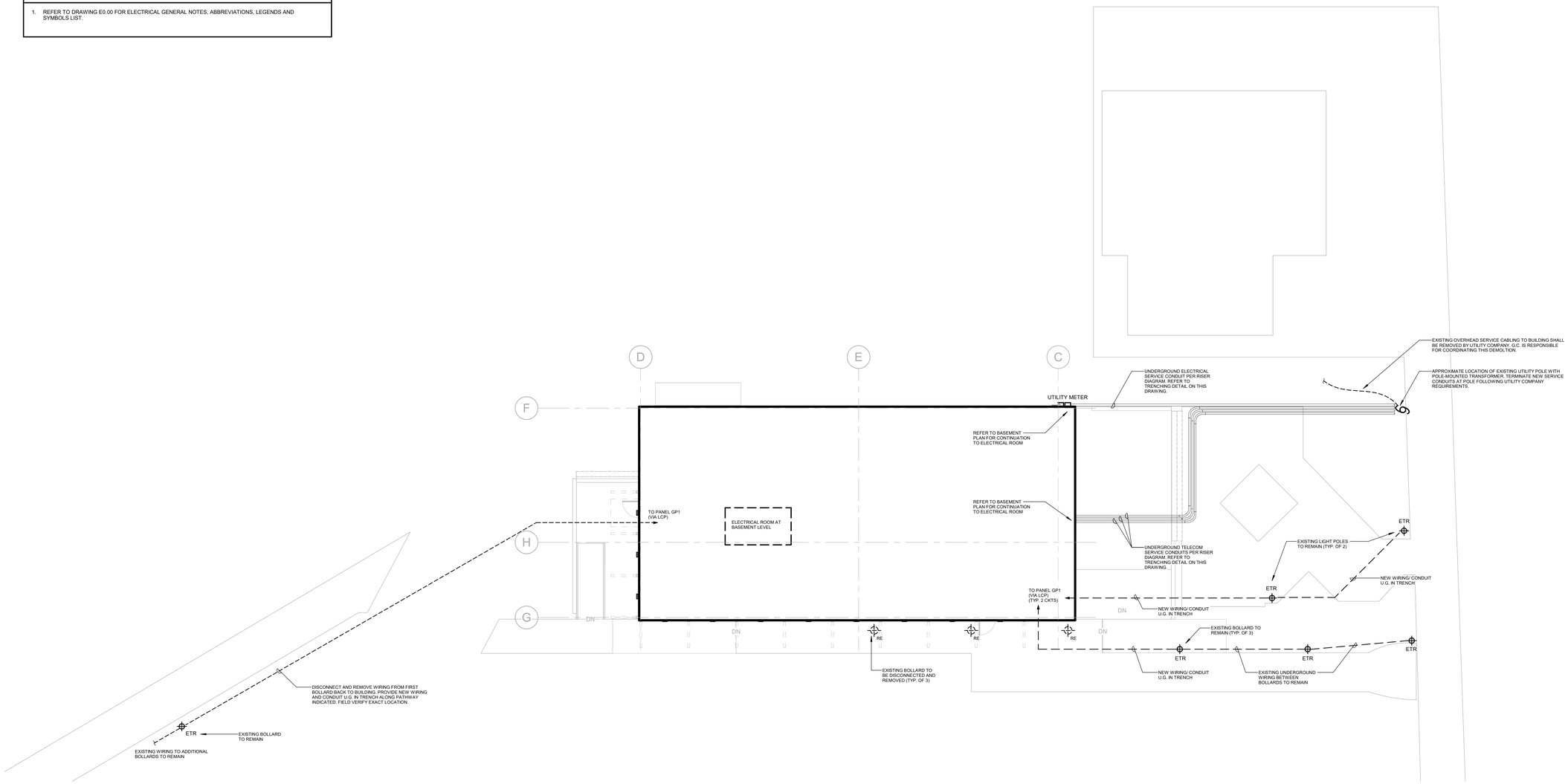
FLOOR BOX SCHEDULE

SYMBOL	DESCRIPTION	CONDUIT/ FLOOR BOX	CABLING	NOTES
FB A	FLOOR BOX WITH POWER	LEGRAND #RFB2E-OG OR EQUAL WITH (1) 3/4"C FOR POWER TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING.	POWER ONLY	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.
FB B	FLOOR BOX WITH POWER, DATA	LEGRAND #RFB4E-OG OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING.	(1) CAT.6 CABLE TO DATA PATCH PANEL (1) CAT.6 CABLE TO VOIP PATCH PANEL	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.
FB C	FLOOR BOX WITH POWER, DATA, AV	LEGRAND #CFB6-OG OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING. PROVIDE ADDITIONAL 1-1/4"C. TO LOCAL AV DISPLAY BOX IN ROOM.	(1) CAT.6 CABLE TO DATA PATCH PANEL (1) CAT.6 CABLE TO VOIP PATCH PANEL REFER TO AV DETAILS FOR CABLING	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.

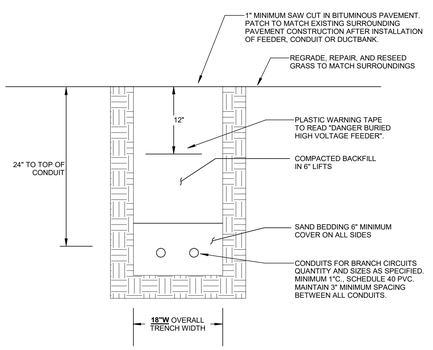
GENERAL NOTES:
1. ALL CONDUITS FOR FLOOR BOXES SHALL BE TRENCHED TO THE NEAREST WALL AND SHALL STUB ABOVE ACCESSIBLE CEILING, OR IN A LOCATION INDICATED ON PLANS.
2. ALL POKE-THROUGH DEVICES SHALL BE PROVIDED WITH SEPARATE CONDUIT SLEEVES TO FLOOR BELOW FOR POWER, DATA AND AV CABLING. PROVIDE ALL NECESSARY FIRESTOPPING OF CONDUIT SLEEVES TO MATCH FIRE RATING OF FLOOR.
3. PROVIDE INTERNAL BARRIER KITS TO SEPARATE POWER, DATA AND AV COMPARTMENTS IN ALL FLOOR BOXES AND POKE-THROUGH DEVICES.
4. ALL FINISHES, COLORS AND COVER MATERIALS SHALL BE SELECTED BY ARCHITECT.
5. PROVIDE MOUNTING BRACKETS AS RECOMMENDED BY MANUFACTURER FOR ALL DEVICES MOUNTED IN FLOOR BOXES AND POKE-THROUGH DEVICES.
6. DATA CABLING SHALL BE ROUTED TO PATCH PANELS IN I.T. ROOMS INDICATED ON FLOOR PLANS. TERMINATE CABLING AT SPECIFIC PATCH PANELS INDICATED IN I.T. RACK ELEVATIONS.
7. CONTRACTOR SHALL LABEL EACH DEVICE TERMINATION POINT AND CORRESPONDING PATCH PANEL PORT WITH THE SAME, UNIQUE LABEL. REFER TO SPECIFICATIONS FOR MORE INFORMATION. ALL LABELS SHALL BE FINALIZED WITH AND APPROVED BY OWNER'S I.T. STAFF PRIOR TO INSTALLATION.
8. PROVIDE ALL NECESSARY CONNECTORS, ADAPTERS, KEYST

ELECTRICAL REFERNCE NOTE

1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.

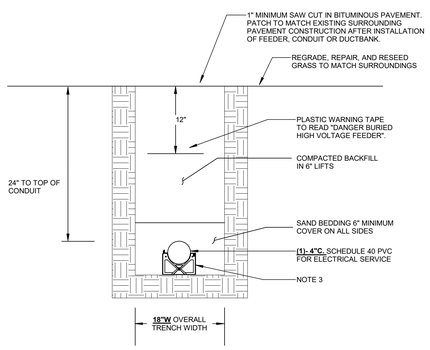


1 ELECTRICAL SITE PLAN
1/8" = 1'-0"



NOTES:
1. TYPICAL CONDUITS AND QUANTITIES SHOWN, REFER TO DRAWINGS FOR QUANTITIES AND SIZES.
2. COORDINATE AND GROUP CONDUITS IN COMMON TRENCH. SINGLE ROW SHOWN, MULTIPLE ROW DUCT BANKS ARE ACCEPTABLE, MAINTAINING SEPARATION DISTANCE REQUIREMENTS.

2 TRENCH DETAIL - TYPICAL BRANCH CONDUITS
NTS



NOTES:
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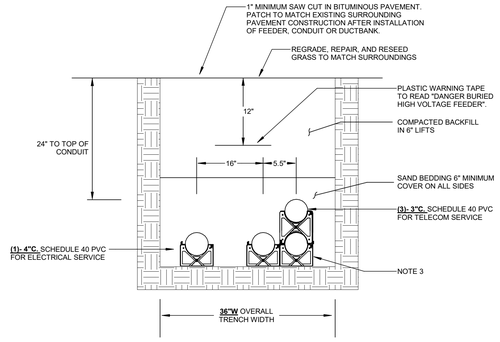
2. COORDINATE AND GROUP CONDUITS IN COMMON TRENCH. SINGLE ROW SHOWN, MULTIPLE ROW DUCT BANKS ARE ACCEPTABLE, MAINTAINING SEPARATION DISTANCE REQUIREMENTS.
3. PROVIDE SUITABLE SEPARATORS AND CHAIRS 4 FT. MAX. ON CENTER, SET TO COMPACTED TRENCH BOTTOM AND BAND CONDUITS TOGETHER PRIOR TO BACKFILL OR PLACING CONCRETE.

3 TRENCH DETAIL - ELECTRICAL SERVICE
NTS



NOTES:
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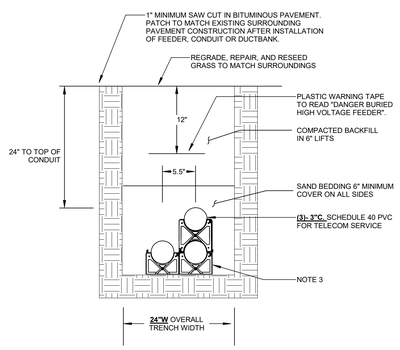
3. PROVIDE SUITABLE SEPARATORS AND CHAIRS 4 FT. MAX. ON CENTER, SET TO COMPACTED TRENCH BOTTOM AND BAND CONDUITS TOGETHER PRIOR TO BACKFILL OR PLACING CONCRETE.

4 TRENCH DETAIL - ELECTRICAL & TELECOM SERVICE
NTS



NOTES:
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2. COORDINATE AND GROUP CONDUITS IN COMMON TRENCH. SINGLE ROW SHOWN, MULTIPLE ROW DUCT BANKS ARE ACCEPTABLE, MAINTAINING SEPARATION DISTANCE REQUIREMENTS.
3. PROVIDE SUITABLE SEPARATORS AND CHAIRS 4 FT. MAX. ON CENTER, SET TO COMPACTED TRENCH BOTTOM AND BAND CONDUITS TOGETHER PRIOR TO BACKFILL OR PLACING CONCRETE.

5 TRENCH DETAIL - TELECOMMUNICATIONS SERVICE
NTS

3/8/2022 11:58:50 AM

ORLEANS COMMUNITY BUILDING

ARCHITECT

E-ICON ARCHITECTURE
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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ES
CHECKED BY: KSK

SHEET TITLE

ELECTRICAL SITE UTILITY PLAN

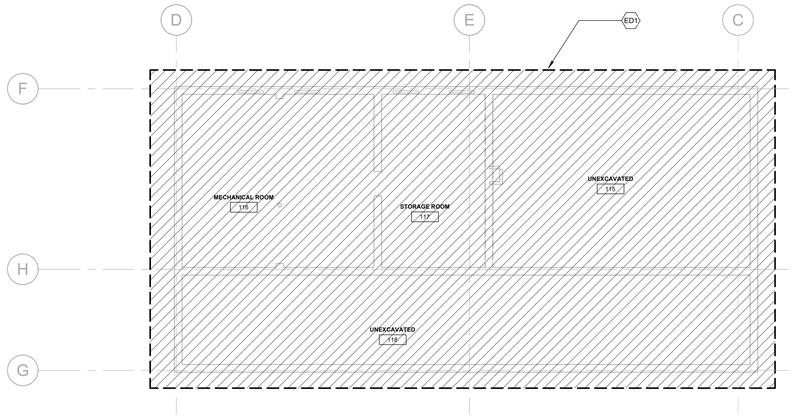
ES1.00

ELECTRICAL REFERNCE NOTE

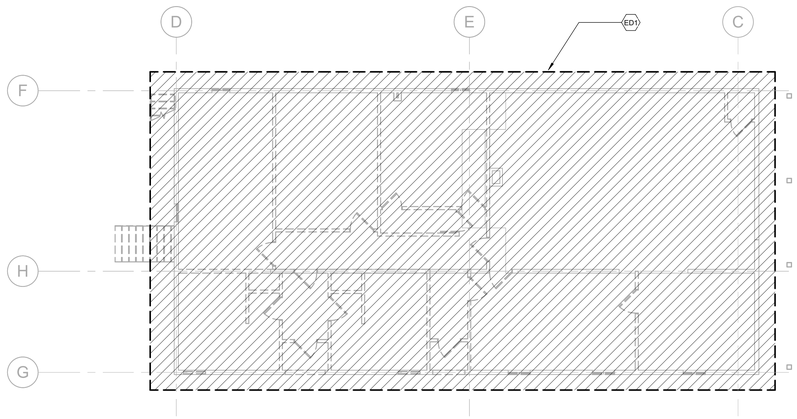
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.

ELECTRICAL DEMOLITION KEY NOTES

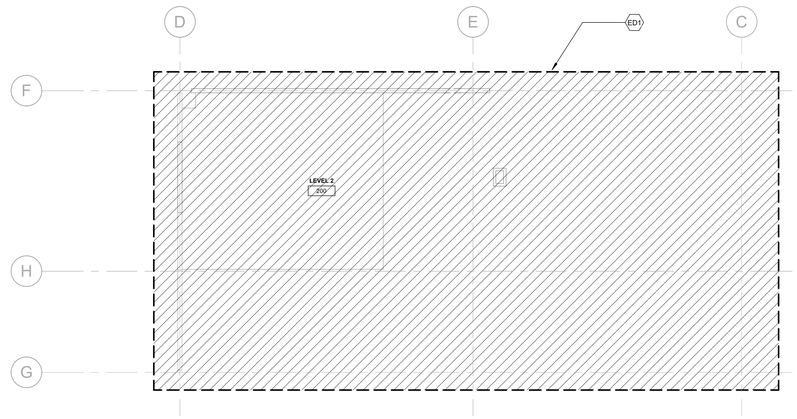
E1 REGION OF COMPLETE ELECTRICAL DEMOLITION. REFER TO DEMOLITION NOTES ON DRAWING E0.00 FOR SCOPE OF WORK.



1 ELECTRICAL POWER BASEMENT PLAN DEMOLITION
1/8" = 1'-0"



2 ELECTRICAL POWER FIRST FLOOR PLAN DEMOLITION
1/8" = 1'-0"



3 ELECTRICAL POWER SECOND FLOOR PLAN DEMOLITION
1/8" = 1'-0"

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KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ES
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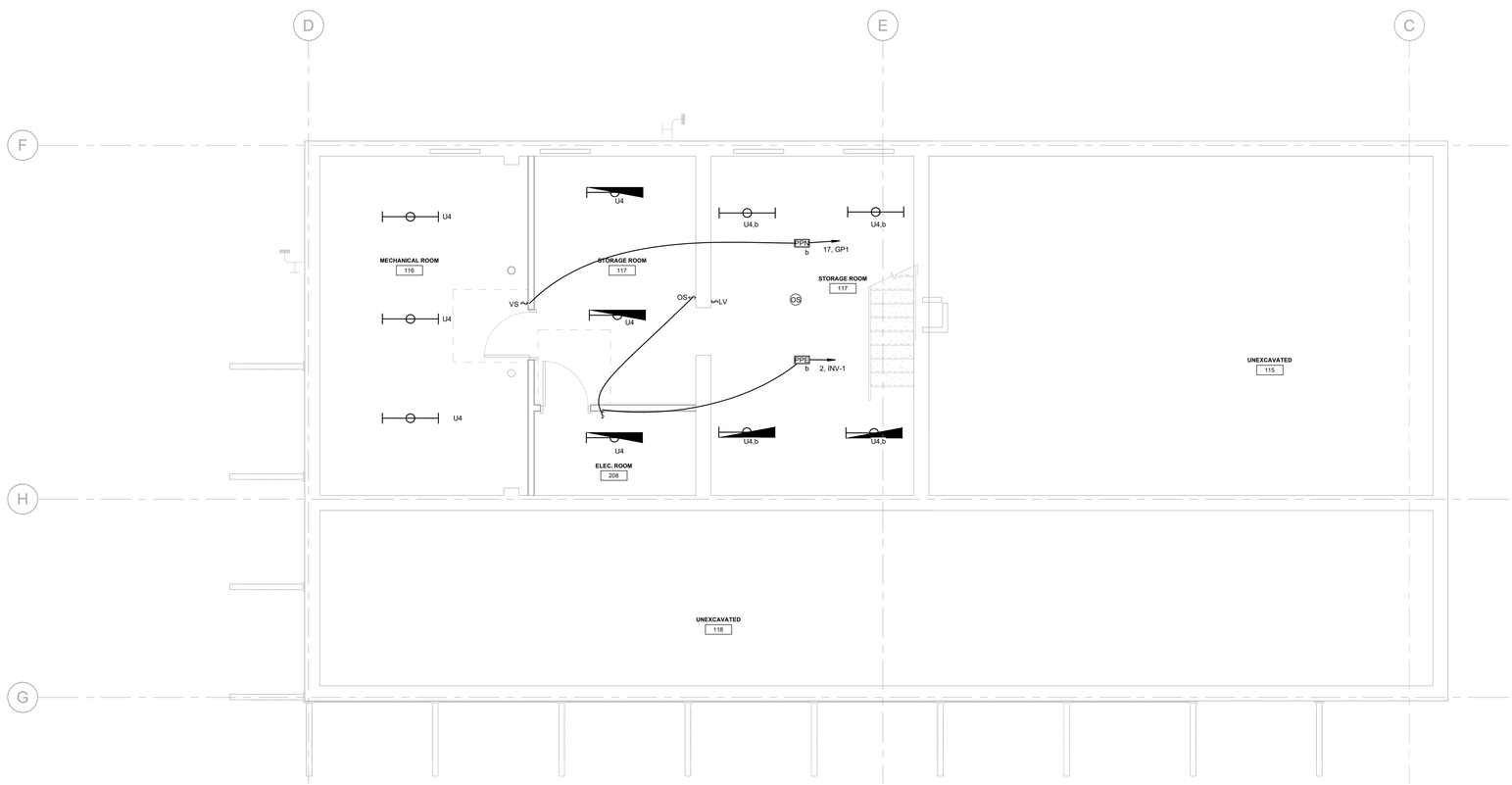
SHEET TITLE

ELECTRICAL DEMOLITION PLANS

ED1.00

3/8/2022 11:58:40 AM

ELECTRICAL REFERNCE NOTE
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.



1 ELECTRICAL LIGHTING BASEMENT PLAN
1/4" = 1'-0"

3/8/2022 11:58:41 AM

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ES
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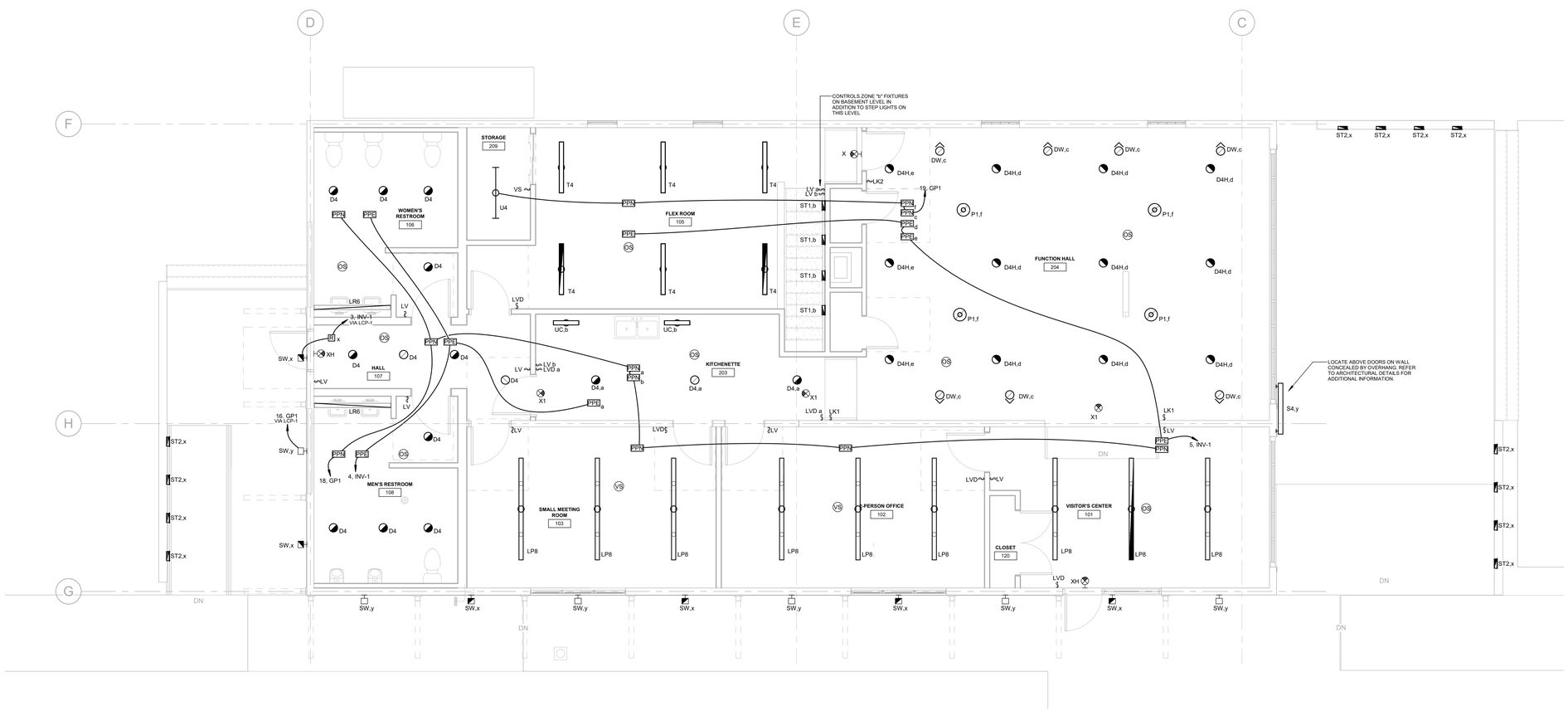
SHEET TITLE

ELECTRICAL LIGHTING BASEMENT FLOOR PLAN

EL1.00

ELECTRICAL REFERNCE NOTE
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.



1 ELECTRICAL LIGHTING FIRST FLOOR PLAN
1/4" = 1'-0"

3/8/2022 11:58:43 AM

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PROJECT NUMBER: 221028
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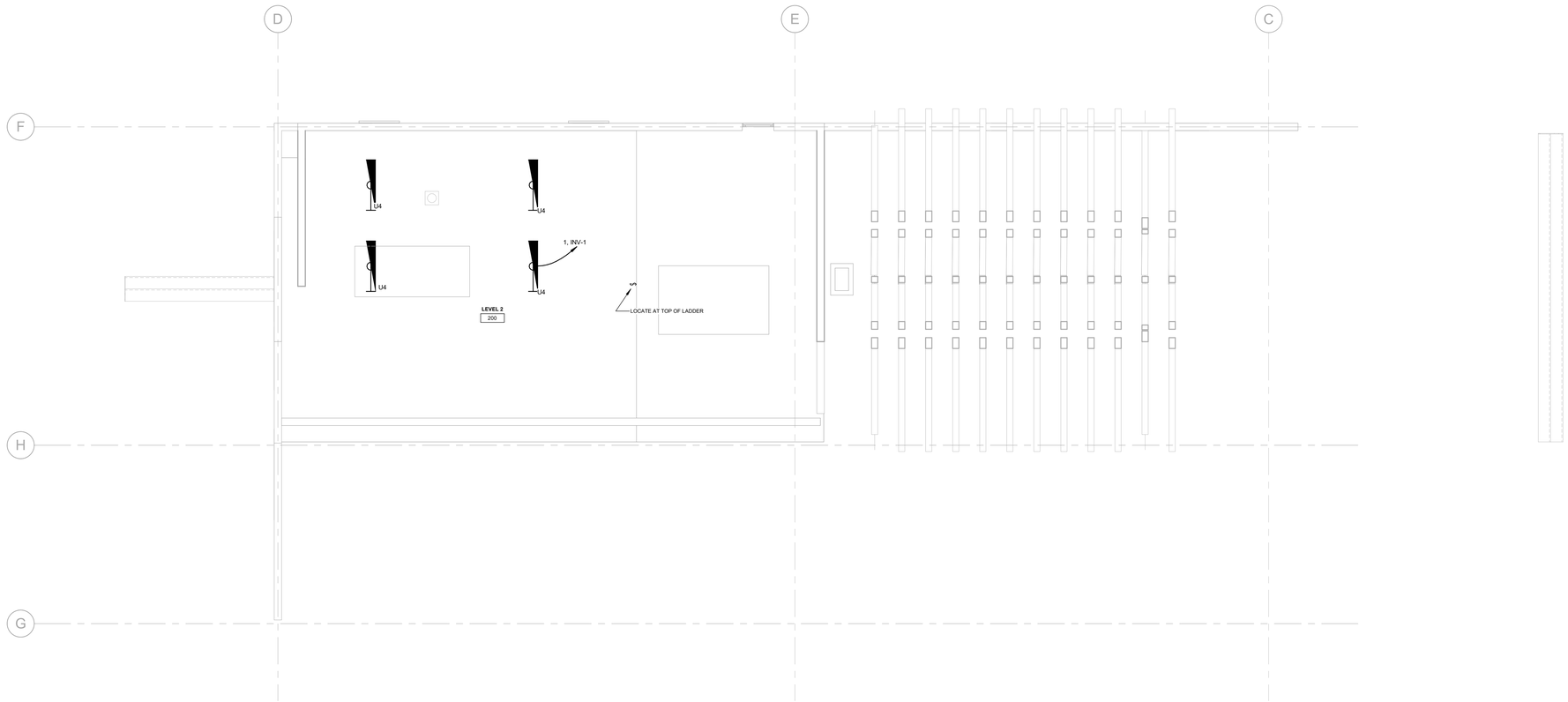
SHEET TITLE

ELECTRICAL LIGHTING FIRST FLOOR PLAN

EL1.01

ELECTRICAL REFERNCE NOTE
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.



1 ELECTRICAL LIGHTING SECOND FLOOR PLAN
1/4" = 1'-0"

3/8/2022 11:58:43 AM

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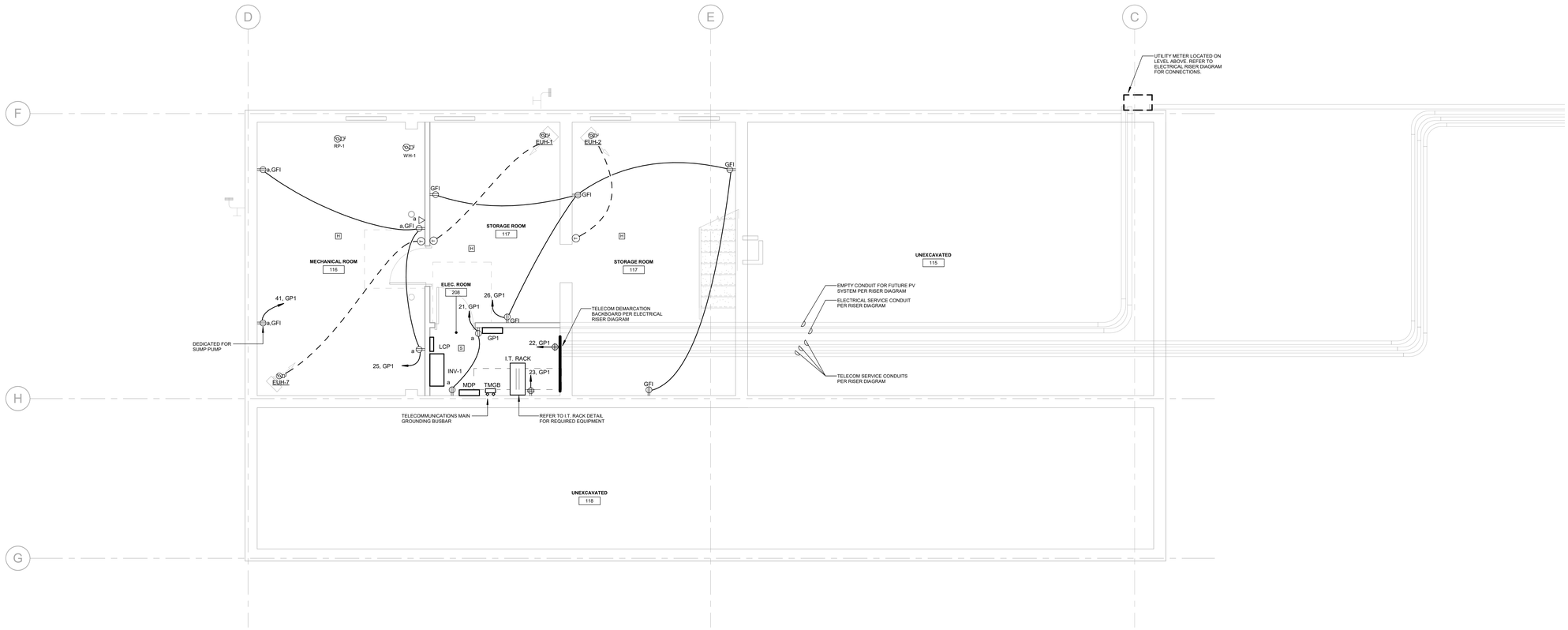
SHEET TITLE

ELECTRICAL LIGHTING SECOND FLOOR PLAN

EL1.02

ELECTRICAL REFERNCE NOTE
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.



1 ELECTRICAL POWER BASEMENT PLAN
1/4" = 1'-0"

3/8/2022 11:58:44 AM

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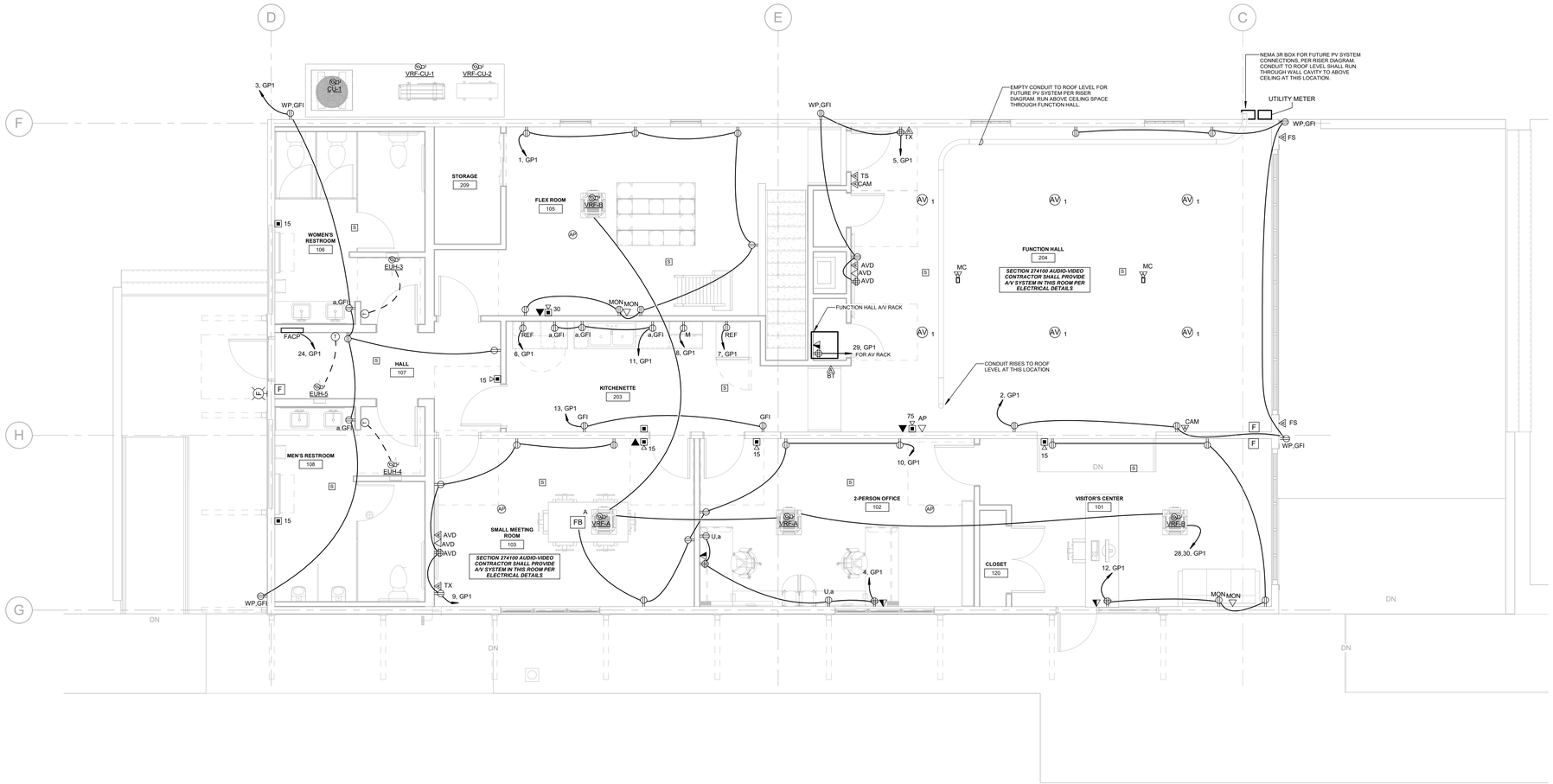
SHEET TITLE

ELECTRICAL POWER BASEMENT FLOOR PLAN

EP1.00

ELECTRICAL REFERNCE NOTE
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.



1 ELECTRICAL POWER FIRST FLOOR PLAN
1/4" = 1'-0"

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KEY PLAN

NO.	DATE	DESCRIPTION

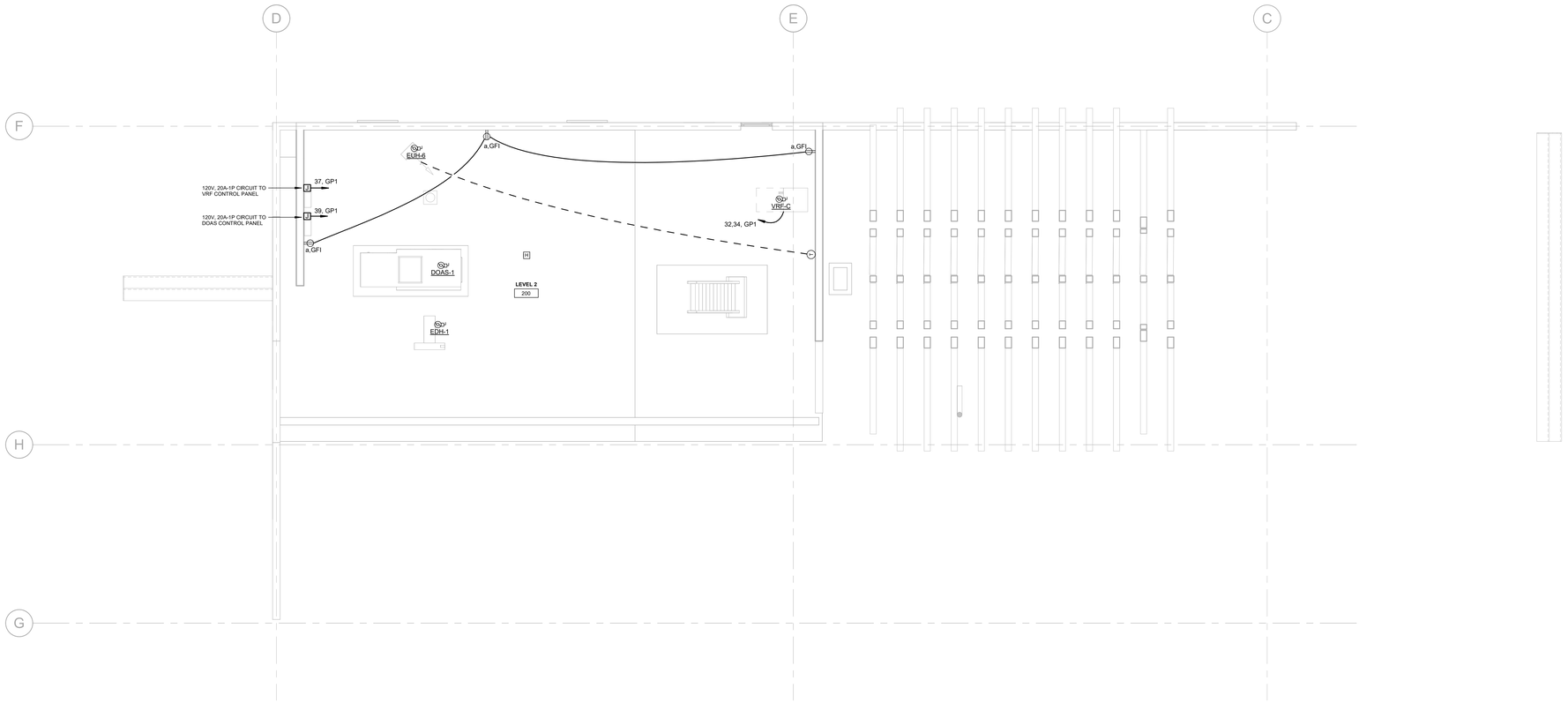
PROJECT NUMBER: 221028
DRAWN BY: ES
CHECKED BY: KSK

SHEET TITLE

ELECTRICAL POWER FIRST FLOOR PLAN

EP1.01

ELECTRICAL REFERNCE NOTE
1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.



1 ELECTRICAL POWER SECOND FLOOR PLAN
1/4" = 1'-0"

3/8/2022 11:58:49 AM

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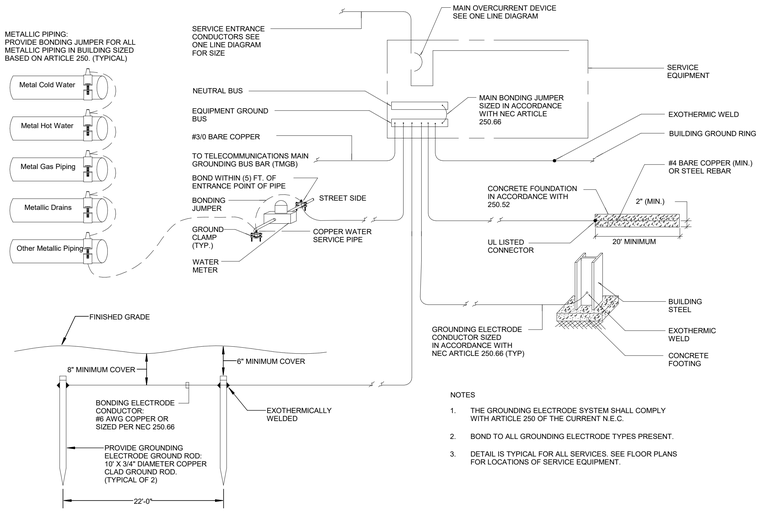
SHEET TITLE

ELECTRICAL POWER SECOND FLOOR PLAN

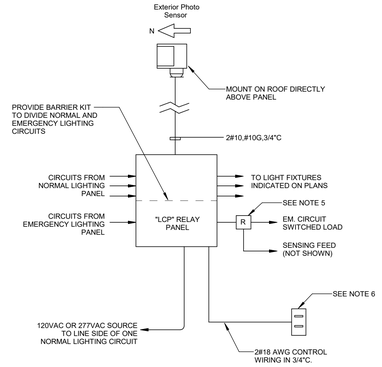
EP1.02



NOTES

1. THE GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE CURRENT N.E.C.
2. BOND TO ALL GROUNDING ELECTRODE TYPES PRESENT.
3. DETAIL IS TYPICAL FOR ALL SERVICES. SEE FLOOR PLANS FOR LOCATIONS OF SERVICE EQUIPMENT.

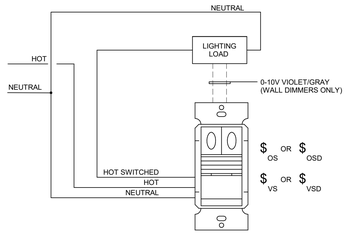
1 SERVICE GROUNDING DETAIL
NTS



NOTES:

1. BASIS OF DESIGN: DOUGLAS DLP2-8R-SM 8-CHANNEL DIGITAL RELAY PANEL WITH (8) SPDT RELAYS RATED FOR 20A/1P LIGHTING LOADS. RELAY PANEL SHALL ACCEPT AN EXTERNAL PHOTOCELL INPUT FOR DAYLIGHTING OVERRIDE. RELAY PANEL SHALL UTILIZE A BUILT-IN ASTRONOMIC TIMECLOCK WITH HOLIDAY, DAYLIGHT SAVINGS AND LEAP YEAR OVERRIDES. ALL RELAYS SHALL BE UL924 LISTED TO AUTOMATICALLY TURN TO THE "ON" POSITION UPON LOSS OF POWER TO RELAY PANEL.
2. EXTERIOR PHOTOCELL: ACUITY ARPA-PC OR APPROVED EQUAL, RATED FOR OUTDOOR APPLICATIONS.
3. SEQUENCE OF OPERATIONS: RELAYS SHALL TURN ON AND OFF IN ACCORDANCE WITH PHOTOCELL OR TIME SCHEDULE. COORDINATE EXACT OPERATION WITH OWNER DURING INSTALLATION.
4. REFER TO LIGHTING PLANS FOR CIRCUITS CONTROLLED BY LCP.
5. PROVIDE UL924 BYPASS RELAY FOR EACH EMERGENCY LIGHTING CIRCUIT. PROVIDE CONNECTIONS TO SENSING FEED FROM LINE SIDE OF NORMAL LIGHTING CIRCUIT. LOCATE ALL BYPASS RELAYS ADJACENT TO RELAY PANEL.
6. PROVIDE REMOTE OVERRIDE SWITCH FOR MANUAL CONTROL OF LIGHTING ADJACENT TO RELAY PANEL. PROVIDE NLIGHT NPODM 2-BUTTON CONTROL SWITCH OR EQUAL. BUTTONS SHALL BE FACTORY ENGRAVED WITH "ON" AND "OFF" LABELS. SWITCH SHALL PROVIDE **2-HOUR** ON/OFF OVERRIDE OF ALL LIGHTING LOADS CONNECTED TO CONTROL PANEL.

2 TYPICAL STANDALONE LIGHTING CONTROL PANEL DETAIL
NTS



TYPICAL WALL SENSOR SWITCH

NOTES:

1. REFER TO MANUFACTURERS WIRING DIAGRAM FOR EXACT WIRING DETAIL.
2. WIRE IN SERIES WITH THREE-WAY SWITCH, WHERE INDICATED ON PLANS.
3. PROVIDE 0-10V WIRING FROM WALL DIMMERS, WHERE INDICATED ON PLANS.
4. LIGHTING SHALL TIME OUT AFTER 20 MINUTES.
5. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

TYPICAL SPECIFICATIONS:

1. "OS" OCCUPANCY SENSOR SWITCH: (SET TO AUTO-ON, AUTO-OFF MODE)
2. "OSD" OCCUPANCY SENSOR 0-10V DIMMER: (SET TO AUTO-ON, AUTO-OFF MODE)
3. "VS" VACANCY SENSOR SWITCH: (SET TO MANUAL-ON, AUTO-OFF MODE)
4. "VSD" VACANCY SENSOR 0-10V DIMMER: (SET TO MANUAL-ON, AUTO-OFF MODE)

3 TYPICAL LINE VOLTAGE SENSOR SWITCH DETAIL
NTS

SEQUENCE OF OPERATIONS:

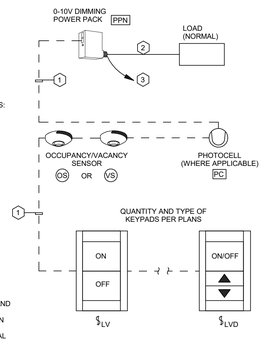
1. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
2. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. MANUAL-ON/OFF VIA LOCAL "LV" AND "LVD" KEYPADS.
4. 3-BUTTON "LVD" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON/OFF": TURN ALL LIGHTS ON/OFF
   - BUTTON 2: "▲": PRESS TO RAISE ALL LIGHTS
   - BUTTON 3: "▼": PRESS TO LOWER ALL LIGHTS
5. 2-BUTTON "LV" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TOGGLE ALL LIGHTS ON
   - BUTTON 2: "OFF": TOGGLE ALL LIGHTS OFF
6. WHERE PHOTOCELL IS INDICATED ON PLANS, ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL AND SHALL CAP MAXIMUM LIGHT LEVEL OF 40 FOOT-CANDLES IN THIS ZONE.

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.

GENERAL NOTES:

1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
3. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
4. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
5. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
6. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.



4 TYPICAL 1-ZONE ROOM CONTROL DETAIL
NTS

SEQUENCE OF OPERATIONS:

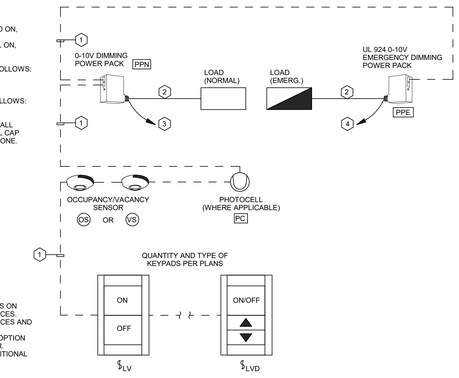
1. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
2. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. MANUAL-ON/OFF VIA LOCAL "LV" AND "LVD" KEYPADS.
4. 3-BUTTON "LVD" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON/OFF": TURN ALL LIGHTS ON/OFF
   - BUTTON 2: "▲": PRESS TO RAISE ALL LIGHTS
   - BUTTON 3: "▼": PRESS TO LOWER ALL LIGHTS
5. 2-BUTTON "LV" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TOGGLE ALL LIGHTS ON
   - BUTTON 2: "OFF": TOGGLE ALL LIGHTS OFF
6. WHERE PHOTOCELL IS INDICATED ON PLANS, ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL AND SHALL CAP MAXIMUM LIGHT LEVEL OF 40 FOOT-CANDLES IN THIS ZONE.

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.
4. 2#12 + #12 GND. TO EMERGENCY POWER FEED INDICATED ON FLOOR PLANS.

GENERAL NOTES:

1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
3. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
4. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
5. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
6. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.



5 TYPICAL 1-ZONE ROOM CONTROL DETAIL (WITH EMERGENCY)
NTS

NOTES:

1. TELECOMMUNICATIONS(DATA), PAGING, AND SECURITY WIRING SHALL BE RUN IN THREE SEPARATE PATHS OF J-HOOKS WHEN ROUTED IN CORRIDORS. MAINTAIN SEPARATIONS BETWEEN TYPES OF CABLING AS DICTATED BY TIA 569-C AND OTHER TIA STANDARDS.
2. HORIZONTAL CABLING SHALL BE ROUTED THROUGH CABLE TRAY WHERE INDICATED ON PLANS. PROVIDE J-HOOKS FOR RUNNING FROM CABLE TRAY TO WORK AREA OUTLET AND I.T. ROOM LOCATIONS.

6 J-HOOK DETAIL FOR LOW-VOLTAGE WIRING
NTS

GENERAL NOTES:

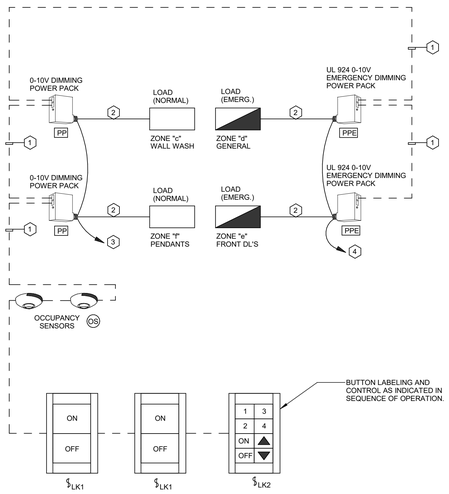
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN THIS DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
5. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
6. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
7. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATIONS:

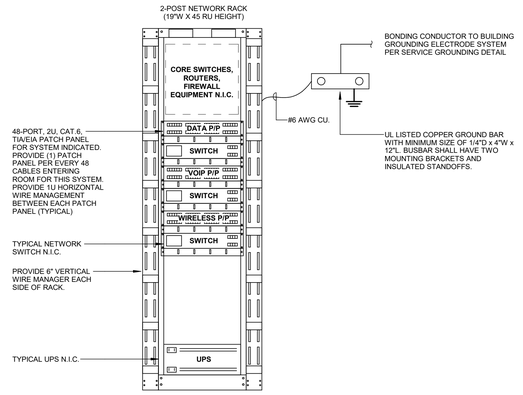
1. SUGGESTED LABELING SHOWN. SUBMIT TO OWNER FOR APPROVAL PRIOR TO ORDERING.
2. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
4. 6-BUTTON "LK2" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: CONTROLS ZONES "c"
   - BUTTON 2: CONTROLS ZONES "d"
   - BUTTON 3: CONTROLS ZONES "e"
   - BUTTON 4: CONTROLS ZONES "f"
   - BUTTON 5: TURN ALL LIGHTS ON
   - BUTTON 6: TURN ALL LIGHTS OFF
   - BUTTON 7: "▲": RAISE ASSOCIATED ZONE
   - BUTTON 8: "▼": LOWER ASSOCIATED ZONE
5. 2-BUTTON "LK1" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TURN ALL LIGHTS ON
   - BUTTON 2: "OFF": TURN ALL LIGHTS OFF

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.
4. 2#12 + #12 GND. TO EMERGENCY POWER FEED INDICATED ON FLOOR PLANS. PROVIDE 2#12 TO LINE SIDE OF NORMAL LIGHTING CIRCUIT FOR SENSING FEED.



8 FUNCTION HALL LIGHTING CONTROL DETAIL
NTS



7 IT RACK ELEVATIONS AND GROUNDING DETAIL
NTS

3/8/2022 11:58:36 AM

ORLEANS COMMUNITY BUILDING

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

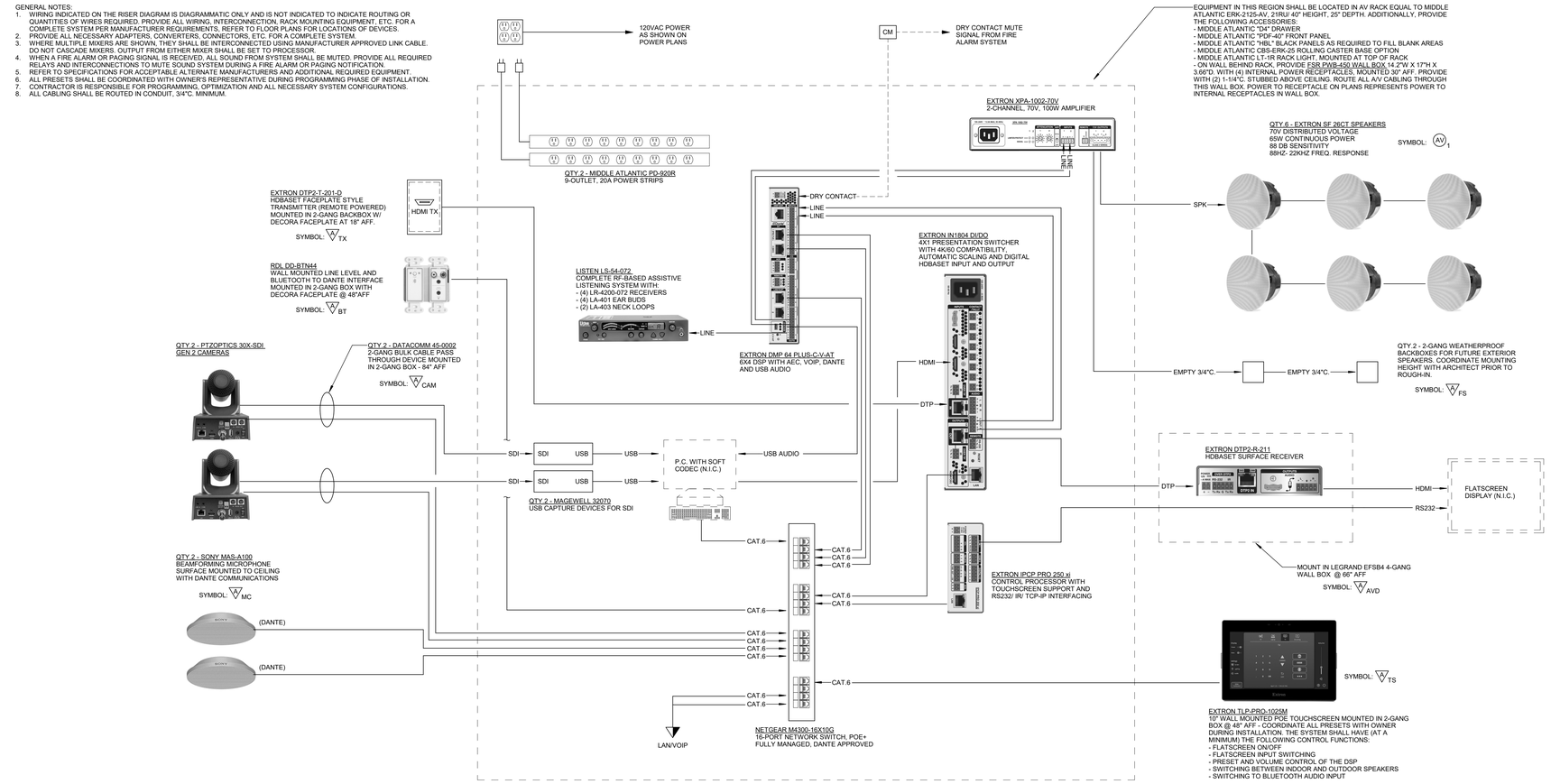
PROJECT NUMBER: 221028
DRAWN BY: ES
CHECKED BY: KSK

SHEET TITLE

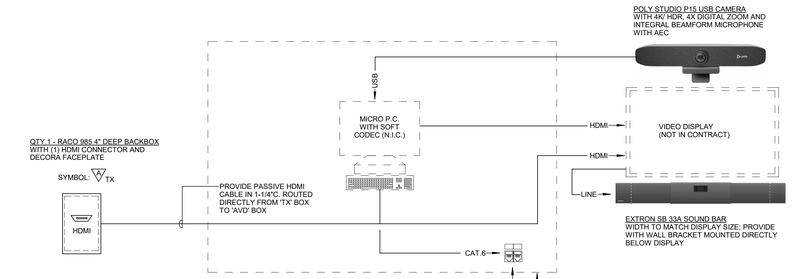
ELECTRICAL DETAILS

E5.00

GENERAL NOTES:
1. WIRING INDICATED ON THE RISER DIAGRAM IS DIAGRAMMATIC ONLY AND IS NOT INDICATED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE ALL WIRING, INTERCONNECTION, RACK MOUNTING EQUIPMENT, ETC. FOR A COMPLETE SYSTEM PER MANUFACTURER REQUIREMENTS. REFER TO FLOOR PLANS FOR LOCATIONS OF DEVICES.
2. PROVIDE ALL NECESSARY ADAPTERS, CONVERTERS, CONNECTORS, ETC. FOR A COMPLETE SYSTEM.
3. WHERE MULTIPLE MIXERS ARE SHOWN, THEY SHALL BE INTERCONNECTED USING MANUFACTURER APPROVED LINK CABLE. DO NOT CASCADE MIXERS. OUTPUT FROM EITHER MIXER SHALL BE SET TO PROCESSOR.
4. WHEN A FIRE ALARM OR PAGING SIGNAL IS RECEIVED, ALL SOUND FROM SYSTEM SHALL BE MUTED. PROVIDE ALL REQUIRED RELAYS AND INTERCONNECTIONS TO MUTE SOUND SYSTEM DURING A FIRE ALARM OR PAGING NOTIFICATION.
5. REFER TO SPECIFICATIONS FOR ACCEPTABLE ALTERNATE MANUFACTURERS AND ADDITIONAL REQUIRED EQUIPMENT.
6. ALL PRESETS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE DURING PROGRAMMING PHASE OF INSTALLATION.
7. CONTRACTOR IS RESPONSIBLE FOR PROGRAMMING, OPTIMIZATION AND ALL NECESSARY SYSTEM CONFIGURATIONS.
8. ALL CABLING SHALL BE ROUTED IN CONDUIT, 3/4"C. MINIMUM.



1 A/V SYSTEM DETAIL - FUNCTION HALL
NTS



GENERAL NOTES:
1. WIRING INDICATED ON THE RISER DIAGRAM IS DIAGRAMMATIC ONLY AND IS NOT INDICATED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE ALL WIRING, INTERCONNECTION, RACK MOUNTING EQUIPMENT, ETC. FOR A COMPLETE SYSTEM PER MANUFACTURER REQUIREMENTS. REFER TO FLOOR PLANS FOR LOCATIONS OF DEVICES.
2. PROVIDE ALL NECESSARY ADAPTERS, CONVERTERS, CONNECTORS, ETC. FOR A COMPLETE SYSTEM.
3. WHERE MULTIPLE MIXERS ARE SHOWN, THEY SHALL BE INTERCONNECTED USING MANUFACTURER APPROVED LINK CABLE. DO NOT CASCADE MIXERS. OUTPUT FROM EITHER MIXER SHALL BE SET TO PROCESSOR.
4. WHEN A FIRE ALARM OR PAGING SIGNAL IS RECEIVED, ALL SOUND FROM SYSTEM SHALL BE MUTED. PROVIDE ALL REQUIRED RELAYS AND INTERCONNECTIONS TO MUTE SOUND SYSTEM DURING A FIRE ALARM OR PAGING NOTIFICATION.
5. REFER TO SPECIFICATIONS FOR ACCEPTABLE ALTERNATE MANUFACTURERS AND ADDITIONAL REQUIRED EQUIPMENT.
6. ALL PRESETS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE DURING PROGRAMMING PHASE OF INSTALLATION.
7. CONTRACTOR IS RESPONSIBLE FOR PROGRAMMING, OPTIMIZATION AND ALL NECESSARY SYSTEM CONFIGURATIONS.
8. ALL CABLING SHALL BE ROUTED IN CONDUIT, 3/4"C. MINIMUM.
9. WALL BOX SHALL BE MOUNTED DIRECTLY BEHIND VIDEO DISPLAY MONITOR. LOCATE WALL BOX SUCH THAT IT IS LOCATED ON THE SAME SIDE OF THE MONITOR AS THE INPUT/OUTPUT CONNECTIONS TO THE MONITOR AND IS FREE AND CLEAR OF FIXED MOUNTING ARMS ON THE MONITOR MOUNT. COORDINATE FINAL LOCATION WITH APPROVED MONITOR AND MOUNTING BRACKET.

2 A/V SYSTEM DETAIL - MEETING ROOM
NTS

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ES
CHECKED BY: KSK

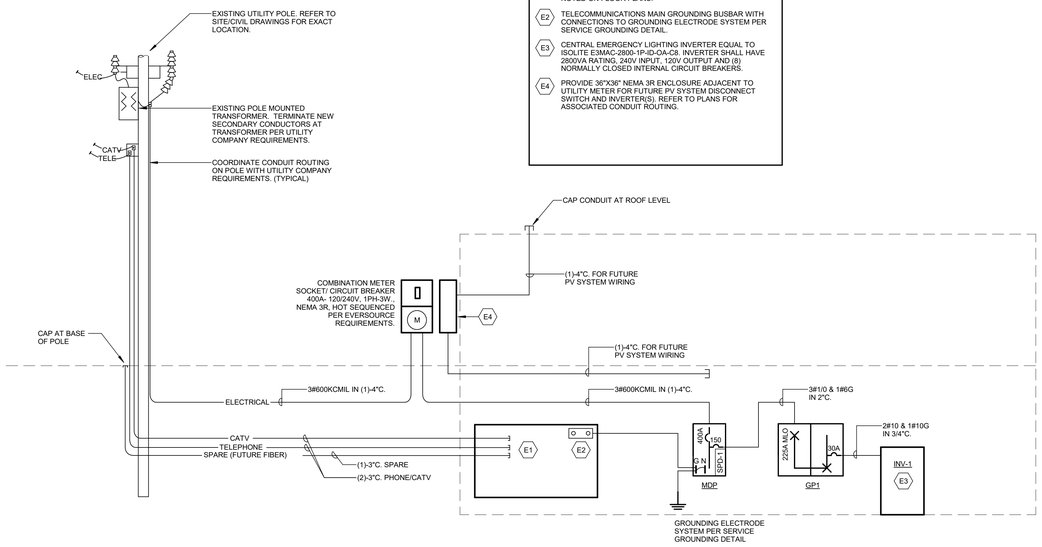
SHEET TITLE

ELECTRICAL DETAILS

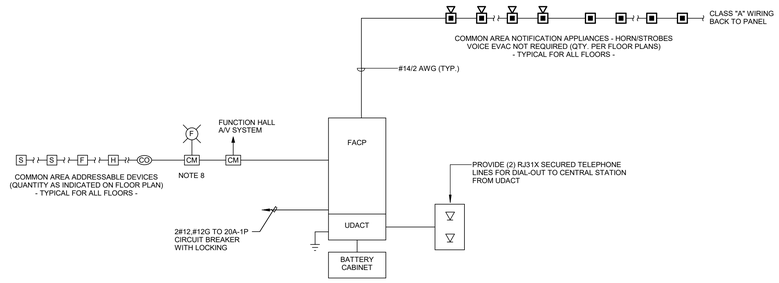
E5.01

RISER DIAGRAM KEY NOTES

- (E1) TELECOMMUNICATIONS BUILDING ENTRANCE FACILITY/ DEMARCATION POINT. PROVIDE 8'-0"W x 8'-0"H, 3/4" THICK PLYWOOD BACKBOARD COATED WITH FIRE RETARDANT PAINT. EXTEND SERVICE CONDUITS TO THIS LOCATION AS NOTED ON FLOOR PLANS.
- (E2) TELECOMMUNICATIONS MAIN GROUNDING BUSBAR WITH CONNECTIONS TO GROUNDING ELECTRODE SYSTEM PER SERVICE GROUNDING DETAIL.
- (E3) CENTRAL EMERGENCY LIGHTING INVERTER EQUAL TO ISOLITE E3MAC-2800-1P-ID-OA-CB. INVERTER SHALL HAVE 2800VA RATING, 240V INPUT, 120V OUTPUT AND (8) NORMALLY CLOSED INTERNAL CIRCUIT BREAKERS.
- (E4) PROVIDE 36"X36" NEMA 3R ENCLOSURE ADJACENT TO UTILITY METER FOR FUTURE PV SYSTEM DISCONNECT SWITCH AND INVERTER(S). REFER TO PLANS FOR ASSOCIATED CONDUIT ROUTING.



1 ORLEANS - ELECTRICAL RISER DIAGRAM
NTS



NOTES
1. REFER TO DRAWING **E0.00** FOR DESCRIPTION OF SYMBOLS, ABBREVIATIONS AND NOTES.
2. CABLES SHALL BE ROUTED ABOVE CEILING AND IN STUD WALLS WHENEVER POSSIBLE. FIRE ALARM MC CABLING IS ACCEPTABLE WHEN CABLING IS NOT EXPOSED. WHERE EXPOSED OR ROUTED IN CONCRETE, PROVIDE WIRE IN CONDUIT.
3. PROVIDE EXTRA POWER SUPPLIES AND TRANSPONDERS WHERE REQUIRED BY MANUFACTURER.
4. TYPICAL DEVICES SHOWN IN RISER. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
5. CARBON MONOXIDE DETECTORS SHALL EMIT A SUPERVISORY SIGNAL TO THE FACP WHEN ACTIVATED.
6. CONTRACTOR IS RESPONSIBLE FOR SIZING BATTERY CABINET CAPABLE OF SUPPORTING BUILDING FIRE ALARM SYSTEM IN THE EVENT OF A POWER FAILURE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS AND SMOKE DAMPERS. REMOTE TEST SWITCHES SHALL BE FLUSHED IN CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR (OR IN CLOSEST DROPPED CEILING TO DETECTOR), UNLESS OTHERWISE NOTED.
8. PROVIDE EXTERIOR RED BEACON FOR FIRE DEPARTMENT NOTIFICATION, EQUAL TO FSR "ELECTRAFLASH" SERIES MODEL 141ST-024R.

2 ORLEANS - FIRE ALARM RISER DIAGRAM
NTS

Branch Panel: MDP

Location: ELEC. ROOM 208 | **Volts:** 120/240 | **A.I.C. Rating:** 22 KAIC
Supply From: | **Phases:** 1 | **Bus Material:** CU
Mounting: Surface | **Wires:** 3 | **Bus Rating:** 600 A
Enclosure: Type 1 | **MCB Rating / MLO:** 400A MCB

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1					1.68			2	15 A	DOAS-1 IN ROOM 200	2
3							1.68	--	--	--	4
5	VRF-CU-2	25 A	2	1.82	2.78			2	40 A	VRF-CU-1	6
7	--	--	--			1.82	2.78	--	--	--	8
9	EUH -3 - ROOM 106	20 A	2	3.00	3.48			2	60 A	CU-1	10
11	--	--	--			3.00	3.48	--	--	--	12
13	EDH-1	80 A	2	7.50	14.32			2	150 A	GP1	14
15	--	--	--			7.50	8.85	--	--	--	16
17	EUH-6- ROOM 200	20 A	2	1.65							18
19	--	--	--			1.65	1.65	2	20 A	EUH-7- ROOM 116	20
21	EUH-1 - ROOM 117	20 A	2	1.65	1.65			--	--	--	22
23	--	--	--			1.65	1.65	2	20 A	EUH-2-ROOM 117	24
25	SPARE	20 A	2	0.00	1.65			--	--	--	26
27	--	--	--			0.00	0.00	1	20 A	SPARE	28
29	EUH-4 - ROOM 108	20 A	2	3.00	0.00			1	20 A	SPARE	30
31	--	--	--			3.00	0.00	1	20 A	SPARE	32
33	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	40
41	SPARE	20 A	1	0.00							42
			Plase Load:	42.37 kVA		36.99 kVA					
			Phase Amps:	353.1 A		308.3 A					
			Total Load:	79.36 kVA							
Notes:			**Total Amps:**	330.66 A							

PANEL SHALL HAVE 600A BUS TO ACCOUNT FOR FUTURE SOLAR PHOTOVOLTAIC CONNECTIONS

Branch Panel: GP1

Location: ELEC. ROOM 208 | **Volts:** 120/240 | **A.I.C. Rating:** 22 KAIC
Supply From: MDP | **Phases:** 1 | **Bus Material:** CU
Mounting: Surface | **Wires:** 3 | **Bus Rating:** 225 A
Enclosure: Type 1 | **MCB Rating / MLO:** MLO

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	RCPT - FLEX ROOM	20 A	1	1.26	1.08			1	20 A	RCPT - FUNCTION HALL	2
3	RCPT - ENTRY VEST	20 A	1			1.08	1.08	1	20 A	RCPT - OFFICE	4
5	RCPT - FUNCTION HALL	20 A	1	1.08	1.00			1	20 A	FRIDGE **GFCI BKR**	6
7	FRIDGE **GFCI BKR**	20 A	1			1.00	0.18	1	20 A	MICROWAVE RCPT	8
9	RCPT - MEETING RM	20 A	1	1.08	1.26			1	20 A	RCPT - OFFICE	10
11	COUNTER RCPT - KITCHENETTE	20 A	1			0.54	1.08	1	20 A	RCPT - VISITOR CENTER	12
13	RCPT - KITCHEN	20 A	1	0.36	2.00			1	30 A	WH-1	14
15	RCPT - ATTIC	20 A	1			0.54	0.27	1	20 A	LTG - EXTERIOR (VIA LCP)	16
17	LTG - BASEMENT	20 A	1	0.22	0.55			1	20 A	LTG - BATHROOMS/ OFFICES	18
19	LTG - FUNCTION HALL	20 A	1			0.38	0.20	1	20 A	EXTERIOR BOLLARDS (VIA LCP)	20
21	RCPT - ELEC ROOM	20 A	1	0.36	0.36			1	20 A	RCPT - TELECOM	22
23	RCPT - TELECOM	20 A	1			0.36	0.15	1	20 A	FACP	24
25	RCPT - MECH ROOM	20 A	1	0.54	0.90			1	20 A	RCPT - BASEMENT	26
27	PARKING BOLLARDS (VIA LCP)	20 A	1			0.07	0.07	2	15 A	VRF- FIRST FLOOR	28
29	FUNCTION HALL A/V RACK	20 A	1	0.36	0.07			--	--	--	30
31	RP-1 IN ROOM 116	20 A	1			0.13	0.43	2	15 A	VRF IN ROOM 200	32
33	INV-1	30 A	2	0.74	0.43			--	--	--	34
35	--	--	--			0.68	0.00	1	20 A	SPARE	36
37	VRF CONTROL PANEL	20 A	1	0.50	0.00			1	20 A	SPARE	38
39	DOAS CONTROL PANEL	20 A	1			0.50	0.00	1	20 A	SPARE	40
41	SUMP PUMP RCPT	20 A	1	0.18	0.00			1	20 A	SPARE	42
43	LIGHT POLES (VIA LCP)	20 A	1			0.13	0.00	1	20 A	SPARE	44
45	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	46
47	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	48
49	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	50
51	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	52
53	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	54
			Plase Load:	14.32 kVA		8.85 kVA					
			Phase Amps:	119.3 A		73.8 A					
			Total Load:	23.17 kVA							
Notes:			**Total Amps:**	96.54 A							

Branch Panel: INV-1

Location: ELEC. ROOM 208 | **Volts:** 120/240 | **A.I.C. Rating:** 22 KAIC
Supply From: GP1 | **Phases:** 1 | **Bus Material:** CU
Mounting: Surface | **Wires:** 3 | **Bus Rating:** 30 A
Enclosure: Type 1 | **MCB Rating / MLO:** MLO

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	EM LTG - ATTIC	20 A	1	0.12	0.16			1	20 A	EM LTG - BASEMENT	2
3	EM LTG - EXTERIOR (VIA LCP)	20 A	1			0.32	0.36	1	20 A	EM LTG - BR/ OFFICES	4
5	EM LTG - FUNCTION HALL	20 A	1	0.46	0.00			1	20 A	SPARE	6
7	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	8
			Plase Load:	0.74 kVA		0.68 kVA					
			Phase Amps:	6.2 A		5.7 A					
			Total Load:	1.43 kVA							
Notes:			**Total Amps:**	5.95 A							

2800VA EMERGENCY LIGHTING INVERTER, AS SPECIFIED ON ELECTRICAL RISER DIAGRAM

ORLEANS COMMUNITY BUILDING

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ES
CHECKED BY: KSK

SHEET TITLE

ELECTRICAL SCHEDULES AND DIAGRAMS

E6.00

3/8/2022 11:58:38 AM

LIGHTING FIXTURE SCHEDULE

TYPE	BASIS OF DESIGN MANUFACTURER / MODEL	VOLTAGE	SOURCE	FIXTURE DESCRIPTION - BASIS OF DESIGN
D4	GOTHAM EV04 35/20 XXX WD LSS MVOLT GZ10	UNV	2000LM, 20W 3500K LED	RECESSED 4" DOWNLIGHT WITH STEEL HOUSING, WIDE DISTRIBUTION (1.2.S.MH), BATWING DISTRIBUTION, 85+CRI, 0-10V DIMMING AND ENERGY STAR LISTING.
D4H	GOTHAM EV04 35/30 XXX WD LSS MVOLT GZ10	UNV	3000LM, 30W 3500K LED	SAME AS 'D4' BUT WITH HIGHER LUMEN OUTPUT.
DW	GOTHAM EV04WW 35/30 DFR LSS MVOLT GZ10	UNV	3000LM, 30W 3500K LED	SAME AS 'D4H' BUT WITH WALL WASH DISTRIBUTION.
LPxx	DELRAY "STICK SLT6" SLT6-(XX)-HO-W35-D	UNV	720LM, 7W 3500K LED (PER FOOT)	PENDANT DIRECT-ONLY LINEAR FIXTURE WITH LAMBERTIAN DISTRIBUTION, 80+ CRI AND 0-10V DIMMING, CYLINDER SHAPE WITH 2.5" DIAMETER. "XX"=FIXTURE RUN LENGTH.
LRxx	LUMENWERX VIA2R-D-HLO-FH-SW-80-750-35-XX-UNV-D1-1C-DTR	UNV	750LM, 6W 3500K LED (PER FOOT)	RECESSED DIRECT-ONLY LINEAR FIXTURE WITH LAMBERTIAN DISTRIBUTION, 80+ CRI AND 0-10V DIMMING, SUITABLE FOR DRYWALL CEILINGS. "XX"=FIXTURE RUN LENGTH.
P1	SPI LIGHTING "ASHLAND" AIP8130-L22-120-277V-DF_STM-DF_SAM15	UNV	2290LM, 22W 3500K LED	STEM MOUNTED PENDANT SCHOOLHOUSE FIXTURE WITH GLASS OPAL DIFFUSER (12" DIAMETER), 8.4" DIAMETER CANOPY, 80+ CRI, 50,000+ HOUR LED LIFE. ALUMINUM OR BRASS FINISH AS SELECTED BY ARCHITECT.
SW	LUMINIS "SYRIOS SQUARE" SQ602-L2L15-R55U-R55D-120V-XX-2K27	UNV	3100LM, 31W 2700K LED	EXTERIOR WALL SCONCE WITH DIRECT AND INDIRECT DISTRIBUTION, ALUMINUM HOUSING, ADJUSTABLE UP AND DOWNLIGHT LENSES, 52º WIDE FLOOD OPTICS, DIMENSIONS 16"H X 10"D.
S4	KELVIX Z5-4FT-8W-27-30-S2-WH-LV	24VDC	3200LM, 32W 2700K LED	4-FOOT LINEAR EXTERIOR WALL MOUNTED WALL GRAZER WITH 30-DEGREE BEAM SPREAD, IP66 RATING AND INSTALLED LOUVER OPTION. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL DETAILS.
ST1	HYDREL HSL13-6INCH-LED-35K-MVOLT-L-BB	UNV	194LM, 5W 3500K LED	STATIC WHITE STEP LIGHT RATED FOR WET LOCATIONS, WITH INTEGRAL DRIVER, INTEGRAL BACKBOX, 5.5"H X 8.5"W DIMENSIONS, DIE-CAST ALUMINUM HOUSING AND CLEAR ACRYLIC OPTIC LENS.
ST2	HYDREL HSL13-6INCH-LED-27K-MVOLT-L-BB	UNV	194LM, 5W 2700K LED	SAME AS TYPE "ST1" EXCEPT WITH 2700K COLOR TEMPERATURE.
T4	EXTANT "HUNTINGTON" HTG-1-RD-XX-4-DHL-MEOBW-835-VU-D	UNV	3760LM, 38W 3500K LED	SURFACE T-GRID MOUNTED 4-FT LINEAR FIXTURE WITH BATWING DISTRIBUTION, EXTRUDED ALUMINUM HOUSING, 1.125" FIXTURE DEPTH, 80+ CRI, AND 0-10V DIMMING.
U4	LITHONIA LIGHTING ZLIN-L48-5000LM-FST-MVOLT-35K-80CRI-WH	UNV	5000LM, 50W 3500K LED	SURFACE MOUNTED 4-FT STRIP FIXTURE WITH SNAP-ON FROSTED DIFFUSER, STEEL HOUSING, 60,000 HR+ LED LIFE, DLC QUALIFIED.
UC	HEALTHCARE LIGHTING HUC523-MVOLT-LED35	120	1900LM, 26.3W 3500K LED	UNDERCABINET 2-FT FIXTURE WITH STEEL HOUSING, POLYESTER POWDER COAT, 80+ CRI AND 65,000 HR+ LED LIFE.
X X1	ISOLITE EUG-EM-R-1C-MTEB	UNV	LED	EDGE-LIT EXIT SIGN WITH UNIVERAL MOUNTING, RED LETTERING, CLEAR BACKGROUND AND INTERNAL BATTERY BACKUP. "X"=WALL MOUNTED, "X1"=CEILING MOUNTED.
XH X1H	ISOLITE EUCT-EM-R-1C-ISA-WH-MBC	UNV	LED	SAME AS TYPE 'X' EXCEPT WITH ACTIVE SYMBOL OF ACCESS (TWO SEPARATE SIGNS ARE NOT ACCEPTABLE), "XH"=WALL MOUNTED, "X1H"=CEILING MOUNTED.

NOTES:
1. LIGHT FIXTURES IN THE SCHEDULE SHALL BE CONSIDERED BASIS OF DESIGN. EQUAL FIXTURE SUBSTITUTIONS ARE ACCEPTABLE FOR ALL FIXTURES IN THE LIGHTING FIXTURE SCHEDULE, UNLESS INDICATED OTHERWISE. EQUAL FIXTURE APPROVAL SHALL BE AS JUDGED BY THE ENGINEER AND THE ARCHITECT. IN ADDITION TO THE REQUIREMENTS LISTED IN THE LIGHTING FIXTURE SCHEDULE AND IN THE SPECIFICATIONS, THE PROPOSED EQUAL FIXTURES SHALL:
   A. BE THE SAME GENERAL SIZE, STYLE AND SHAPE, INCLUDING BUT NOT LIMITED TO LENS CONSTRUCTION AND SHADING.
   B. BE OF EQUAL QUALITY CONSTRUCTION AND FINISH.
   C. BE SUPPLIED WITH ALL REQUIRED ACCESSORIES TO MATCH THE SPECIFIED (BASIS OF DESIGN) FIXTURE.
   D. PROVIDE THE SAME DISTRIBUTION, EFFICACY AND SOURCE LUMEN OUTPUT.
   E. HAVE THE SAME LISTINGS AS THE BASIS OF DESIGN FIXTURE, INCLUDING DLC AND ENERGY STAR QUALIFICATIONS.
2. ALL FIXTURES SHALL BE UL LISTED.
3. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, CANOPIES, STEMS, CHAINS, ROW JOINERS, ETC. SHALL BE FURNISHED AND INSTALLED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENT, MOUNTING HEIGHTS, SUSPENSION LENGTHS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES SHALL BE SELECTED BY ARCHITECT.
5. FIXTURES SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE APPLICABLE BUILDING CODE. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL BE INDEPENDENT OF DUCTS, PIPES, CEILINGS AND THEIR SUPPORTING MEMBERS. FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF 2 SUPPORTS.
6. WIRE EMERGENCY FIXTURES AND EXIT SIGNS AHEAD OF SWITCHED LEGS.
7. MINIMUM MOUNTING HEIGHT OF FIXTURES IN MECHANICAL AND ELECTRICAL SPACES IS 8'-6" AFF. COORDINATE MOUNTING HEIGHT IN FIELD WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT. PROVIDE NECESSARY CHAIN-MOUNTING HARDWARE TO SUSPEND FIXTURES WHERE REQUIRED.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. WHERE EXIT SIGNS ARE SHOWN AS WALL MOUNTED ABOVE A DOOR, MOUNT SUCH THAT THE BOTTOM OF THE SIGN IS NO MORE THAN 3" ABOVE THE DOOR FRAME, UNLESS INDICATED OTHERWISE ON PLANS.
10. UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED SPACES SHALL BE AS FOLLOWS:
    A. CEILING HEIGHT 9'-0" OR LOWER: 7'-6" TO BOTTOM OF FIXTURE
    B. CEILING HEIGHT 9'-6" TO 11'-0": 8'-0" TO BOTTOM OF FIXTURE
    C. CEILING HEIGHT 11'-0" TO 12'-0": 9'-6" TO BOTTOM OF FIXTURE
    D. MINIMUM PENDANT LENGTH SHALL BE 1'-6"
    E. CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

MOTOR / EQUIPMENT CIRCUIT SCHEDULE

EQUIPMENT	OCPD	PANEL	LOAD					LOCAL DISC. SW	MOTOR STARTER			WIRING	REMARKS
			HP	FLA	KW	PH	VOLT		SIZE	TYPE	LOCATION		
VRF-XX (TYPICAL)	15A-2P	VARIES	-	1-3	-	1	240	MAN	-	SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 1
EUH-1	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EUH-2	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EUH-3	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EUH-4	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EUH-5	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EUH-6	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EUH-7	20A-2P	MDP			3.3	1	240	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	SEE REMARK 2
EDH-1	80A-2P	MDP			15.0	1	240	100A-2P		SPC	AT UNIT	2#4, #8G, 1-1/4"C	
VRF-CU-1	40A-2P	MDP		23.2		1	240	60A-2P		SPC	AT UNIT	2#8, #10G, 1"C	SEE REMARK 3
VRF-CU-2	25A-2P	MDP		15.2		1	240	30A-2P		SPC	AT UNIT	2#10, #10G, 3/4"C	SEE REMARK 3
DOAS-1	15A-2P	MDP		14		1	240	DIV.23		SPC	AT UNIT	2#12, #12G, 3/4"C	
CU-1	60A-2P	MDP		29.0		1	240	60A-2P		SPC	AT UNIT	2#6, #10G, 1"C	SEE REMARK 3
WH-1	30A-1P	GP1			2	1	120	30A-2P		SPC	AT UNIT	2#10, #10G, 3/4"C	
RP-1	20A-1P	GP1			1/8	1	120	MAN		SPC	AT UNIT	2#12, #12G, 3/4"C	

GENERAL NOTES:
1. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND SHALL BE LOCATED AT EQUIPMENT LOCATION UNLESS OTHERWISE NOTED.
2. ABBREVIATIONS:
   - MAN: MANUAL STARTER (TOGGLE SWITCH WITH THERMAL OVERLOADS)
   - FVNR: COMBINATION FULL VOLTAGE NON-REVERSING STARTER/ DISCONNECT SWITCH
   - VFD: VARIABLE FREQUENCY DRIVE, FURNISHED BY DIV. 23, WIRED BY DIV. 26. PROVIDE POWER WIRING FROM SOURCE PANELBOARD TO VFD AND FROM VFD TO MOTOR(S). COORDINATE EXACT LOCATION IN FIELD WITH DIV.23.
   - DIV.21: EQUIPMENT FURNISHED BY DIVISION 21 FIRE PROTECTION CONTRACTOR
   - DIV.22: EQUIPMENT FURNISHED BY DIVISION 22 PLUMBING CONTRACTOR
   - DIV.23: EQUIPMENT FURNISHED BY DIVISION 23 HVAC CONTRACTOR
   - SPC: SINGLE POINT CONNECTION (STARTERS INTEGRAL TO EQUIPMENT). COORDINATE EXACT POINT OF CONNECTION IN FIELD.
3. OVERCURRENT PROTECTION DEVICES (OCPD) SHALL BE MOLDED CASE CIRCUIT BREAKERS UNLESS NOTED WITH AN "F" FOR FUSE.
4. DISCONNECT SWITCHES AND STARTERS SHALL BE NEMA 3R RATED WHEN LOCATED OUTSIDE.
5. REFER TO PANEL SCHEDULES FOR SOURCE PANEL/ CIRCUIT INFORMATION.
6. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
7. STARTERS SHALL BE SQUARE D CLASS 8536 OR APPROVED EQUAL.

REFERENCED REMARKS:
1. REFER TO FLOOR PLANS FOR CIRCUITING. ALL UNITS INDICATED ON PLANS SHALL BE DAISY-CHAINED TOGETHER. PROVIDE SEPARATE DISCONNECT SWITCH FOR EACH UNIT ON CIRCUIT.
2. LINE VOLTAGE THERMOSTAT FOR ELECTRIC UNIT HEATER SHALL BE FURNISHED BY DIVISION 23 HVAC CONTRACTOR AND WIRED/ INSTALLED BY EC. PROVIDE 2#12+1#12G, 3/4"C. FROM SOURCE PANEL TO THERMOSTAT TO UNIT. REFER TO PLANS FOR THERMOSTAT LOCATION.
3. UNIT IS LOCATED OUTSIDE BUILDING ON PAD. CIRCUIT SHALL RUN UNDER SLAB FROM PANEL TO UNIT LOCATION. COORDINATE EXACT STUB-UP LOCATION IN FIELD WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.

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STAMP

KEY PLAN

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 221028
DRAWN BY: ES
CHECKED BY: KSK

SHEET TITLE

ELECTRICAL SCHEDULES AND DIAGRAMS

E6.01