TOWN OF BRISTOL, R.I.

ROGERS FREE LIBRARY

ROGERS FREE LIBRARY INTERIOR MODIFICATIONS

BID #1065
525 HOPE STREET
BRISTOL, R.I. 02809

50 Holden Street · Providence, Rhode Island 02908
(401) 272-1730 · www.rgb.net

Architecture · Project Management · Interior Design

RGB architects

RGB ARCHITECTS

CONSULTANTS:
Creative Environment Corp.
Building Technology Consulting LLC
Joe Casali Engineering INC.

ARCHITECTURE, PROJECT MANAGEMENT, AND INTERIOR DESIGN

Mechanical, Electrical, Plumbing & Fire Protection
Telecommunications & Security Systems
Site & Civil

LIST OF DRAWINGS

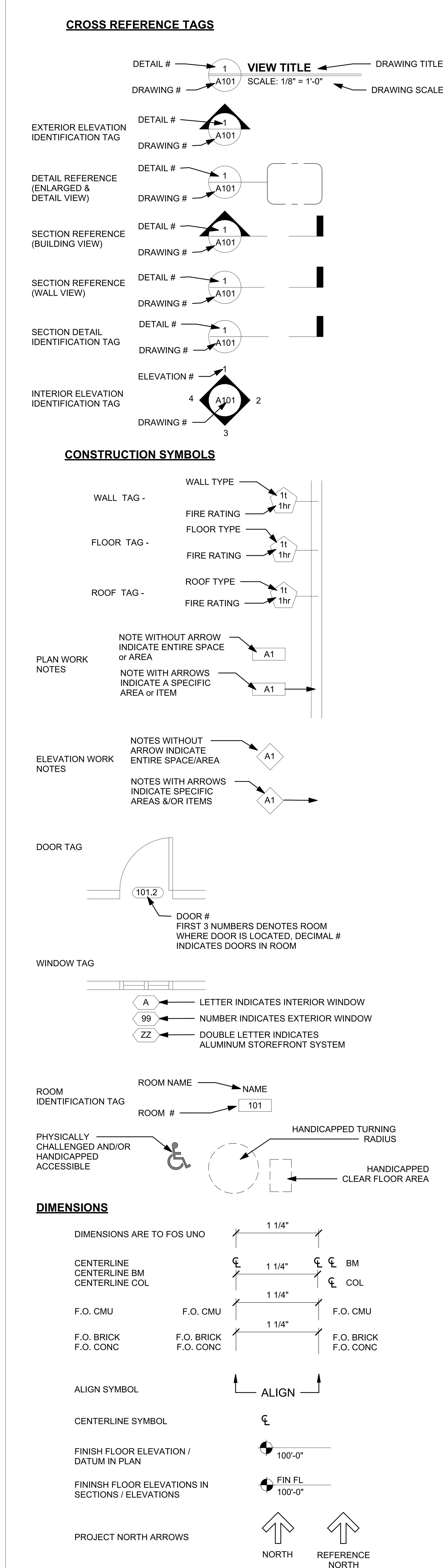
STATUS: Issued for Construction
DATE: 04.21.25

ROGERS FREE LIBRARY INTERIOR MODIFICATIONS - 6846

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AF	ABOVE FLOOR
ACP	ACCESS PANEL
ACC	ACCESSORY, ACCESSORIES
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
ADH	ADHESIVE
ADJ	ADJUSTABLE
AGG	AGGREGATE (S)
A/C	AIR CONDITIONING
AVB	AIR/VAPOR BARRIER
AC	ALTERNATING CURRENT
ALT	ALTERNATE
ALUM	ALUMINUM
AT	ALUMINUM THRESHOLD
ANC	ANCHOR (S) ANCHORAGE (S)
AB	ANCHOR BOLTS
L, ∠	ANGLE
ANOD	ANODIZED
ANT	ANTENNA (E)
APP	APPROVED, APPROVAL
APPROX	APPROXIMATE
APRT	ACOUSTICAL PARTITION
AD	AREA DRAIN
@	AT
ATT	ATTACH, ATTACHMENT
ALD	AUTOMATIC LOUVER DAMPER
AVE	AVENUE
AVG	AVERAGE
BTB	BACK TO BACK
BM	BEAM
BMK	BENCH MARK
BG	BEARING
BPL	BEARING PLATE
BIT	BITUMINOUS
BC	BOTTOM OF CURB
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BF	BOTTOM OF FOOTING
BO	BOTTOM OF
BOC	BOTTOM OF CURB
BS	BOTH SIDES
BW	BOTH WAYS
BOT	BOTTOM
BKT	BRACKET
BK	BRICK
BRG	BRIDGING, BRIDGE (D)
BTU	BRITISH THERMAL UNIT
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CK	CHALK
CBT, CAB	CABINET
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN
CLG	CEILING
CTR	CENTER
CL, ℄	CENTERLINE
CTC	CENTER TO CENTER
C	CENTIGRADE (CELSIUS)
CT	CERAMIC TILE
CLF	CHAIN-LINK FENCE
CB	CHALKBOARD
CH	CHANNEL
CM	CENTIMETER
CV	CHECK VALVE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CKT	CIRCUIT
CO	CLEANOUT
CLR	CLEAR, CLEARANCES
CLS	CLOSURE
CW	COLD WATER
C,COL	COLUMN
COMP	COMPRESS (ED),(ION),(IBLE)
CONC	CONCRETE (PORTLAND CEMENT)
CMU	CONCRETE MASONRY UNITS
COND	CONDUIT
CX	CONNECTION
CONT	CONTINUOUS
CLL	CONTRACT LIMIT LINE
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CFL	COUNTERFLASHING (S)
CS	COUNTERSINK, COUNTERSUNK
CU	CUBIC
CU	COPPER
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CF	CUBIC FEET
CU IN	CUBIC INCH
CY	CUBIC YARD
CYL	CYLINDER, CYLINDRICAL
DPR	DAMPER
DP	DAMPPROOF (ED),(ING)
DL	DEAD LOAD
DB	DECIBEL
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DIA or ∅	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DC	DIRECT CURRENT
DCX	DISCONNECT (ION)
DPN	DISPENSER
DPL	DISPOSAL, DISPOSABLE
DR	DOOR
DBL	DOUBLE
DH	DOUBLE-HUNG
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DN	DOWN
DS	DOWNSPOUT
D	DRAIN, DRAINAGE LINE
DI	DRAIN INLET
DT	DRAIN TILE
DWG,DRWG	DRAWING (S)
DF	DRINKING FOUNTAIN
DMH	DROP MANHOLE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EW	EACH WAY
EA	EACH
EFF	EFFICIENCY
E, ELECT.	ELECTRIC, ELECTRICAL
EP	ELECTRIC PANEL
EWC	ELECTRIC WATER COOLER
EL, ELEV	ELEVATION
ENC	ENCLOSE, ENCLOSURE
EQ, =	EQUAL (TO)
EQP, EQUIP	EQUIPMENT
EXH	EXHAUST
ED	EXHAUST DUCT
EF	EXHAUST FAN
EH	EXHAUST HOOD
EXIST.	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ET	EXTENDED, EXTENSION
EPS	EXTRUDED POLYSTYRENE
EXT	EXTERIOR
FAB	FABRICATE
FO	FACE OF
FS, FOS	FACE OF STUD
FAS	FASTEN, FASTENER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FNDR	FEMININE NAPKIN DISPENSER UNIT
FNDP	FEMININE NAPKIN DISPOSAL UNIT
FF	FINISH FLOOR
FBD	FIBERBOARD
FGL	FIBERGLASS
FIL	FILLER (S)
FIN	FINISH
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FTR	FINNED TUBE RADIATION
FA	FIRE ALARM STATION
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC, FXC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FH	FIRE HYDRANT
FMN	FIRE MAIN
FP	FIREPROOF (ING)
FR	FIRE RESISTANT
FRC	FIRE-RESISTANT COATING
FRT	FIRE-RETARDANT TREATMENT
FSP	FIRE STANDPIPE
FXD	FIXED
FXT	FIXTURE
FLG	FLASHING
FHCS	FLAT HEAD COUNTERSUNK SCREW
FHWS	FLAT HEAD WOOD SCREW
FLX	FLEXIBLE
FLR	FLOOR, FLOORING
FD	FLOOR DRAIN
FGR	FLOOR GRILLE (REGISTER)
FLU	FLUORESCENT
FL	FLOW LINE
FT	FOOT, FEET
FC	FOOTCANDLES
FTG	FOOTING
FWK	FORMWORK
FND, FDW	FOUNDATION (WALL)
FR	FRAME (D),(ING)
FBO	FURNISHED BY OTHERS
F & I	FURNISH & INSTALL
FURR	FURRING
FUT	FUTURE
FAI	FRESH AIR INTAKE
FRP	FIBER REINFORCED PLASTIC
FSL	FUSIBLE LINK
GAL	GALLON (S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GALV	GALVANIZED
GI	GALVANIZED IRON
GST	GALVANIZED STEEL
G	GAS
GKT	GASKET (ED)
GAV	GATE VALVE
GA	GAUGE
GLB	GLASS BLOCK
GMU	GLAZED MASONRY UNITS
GB	GRAB BARS
GRD	GRADE, GRADING
GRT	GRANITE
GVL	GRAVEL
GR	GRILLE
GD	GROUND (ED)
GT	GROUT (ED)
GYP. BD.	GYPSUM WALLBOARD
GWB	GYPSUM WALLBOARD
GYL	GYPSUM LATH
GFRC	GLASS FIBER REINF. CONC.
GPL	GYPSUM PLASTER
HH	HAND HOLD
HA	HANGER
HBD	HARDBOARD
HC	HANDICAP(PED)
HDN	HARDENER (ED)
HDW	HARDWARE
HWD	HARDWOOD
HD	HEAD
HDR	HEADER
HDE	HEAT DETECTOR
HTG	HEATING
HAC	HEATING & AIR CONDITIONING
H & V	HEATING & VENTILATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HVC	HEATING, VENTILATING, COOLING
Hz	HERTZ (CYCLES PER SECOND)
HPL	HIGH PRESSURE LAMINATE
HV	HIGH VOLTAGE
HWY	HIGHWAY
HO	HOLD OPEN
HCWD	HOLLOW CORE WOOD
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HK	HOOK (S)
HR	HOUR
HOR, HORZ.	HORIZONTAL
HP	HORSEPOWER
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
HWC	HOT WATER, CIRCULATOR
HWF	HOT WATER FAUCET
HWH	HOT WATER HEATING
HWT	HOT WATER TANK
HYD	HYDRANT
IN	INCH
INCL	INCLUDING (ED),(SIVE)
INFO	INFORMATION
ID	INSIDE DIAMETER
INSL	INSULATE (D),(ATION)
IMC	INSULATED METAL CLAD
INT	INTERIOR, INTERNAL
INV	INVERT
IE	INVERT ELEVATION
IDM	ISOLATE DISC. METALS
JAN	JANITOR
JC	JANITOR CLOSET
JT	JOINT
JF	JOINT FILLER
JS	JOINT SEALER
J	JOIST
JCT	JUNCTION
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
K	KIP
KD	KNOCK DOWN
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAT	LATERAL
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LBS, #	POUND'S
LCC	LEAD COATED COPPER
LDR	LEADER
LH	LEFT-HAND
LWOD	LESS WIDTH OF DOOR
LIN	LINEN
LP	LIGHT PROOF
LS	LIMESTONE
LTL	LINTEL
LL	LIVE LOAD
LW	LIGHT WEIGHT
LP	LOW PRESSURE
LOC	LOCATION
LKR	LOCKER
LG	LONG, LENGTH
LONG	LONGITUDINAL
L or LH	LONG SPAN STEEL JOIST
LVR	LOUVER
LV	LOW VOLTAGE
LVT	LUXURY VINYL TILE
MB	MACHINE BOLT
MH	MANHOLE
MFD,MFR'D	MANUFACTURED
MFR	MANUFACTURER
MFG	MANUFACTURING
MBL	MARBLE
MK	MARK
MAS	MASONRY
MCJ	MASONRY CONTROL JOINT
MJ	MASONRY JOINT
MO	MASONRY OPENING
MTL	MATERIAL (S)
MAX	MAXIMUM
MC	MEDICINE CABINETS
MED	MEDIUM
MDF	MEDIUM DENSITY FIBERBOARD
MBR	MEMBER
MMB,MEMB	MEMBRANE
MTL	METAL
METC	METAL CLAD
ME	METAL EDGE
MRE	METAL ROOF DECK(ING)
M	METER (S)
MEZZ	MEZZANINE
MIC	MICROPHONE
MM	MILLIMETER
MWK	MILLWORK
MIN	MINIMUM
MIR	MIRROR
MIS	MISCELLANEOUS
MXV	MIXING VALVE
MOD	MODULAR
MLD	MOLDING
MDO	MEDIUM DENSITY OVERLAY
MT	MOUNT (ED), (ING)
MHT	MOUNTING HEIGHT
MUL	MULLION
NL	NAILABLE
NAT	NATURAL (FINISH)
NRC	NOISE-REDUCTION CO-EFFICIENT
NOM	NOMINAL
NC	NON-CORROSIVE
NIC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
NO,#	NUMBER
OC	ON-CENTER
K, L, H	OPEN-WEB STEEL JOIST
OPG, OPNG	OPENING
OPR	OPERATOR
OPP	OPPOSITE
O.H.,OPH	OPPOSITE HAND
OHS	OPPOSITE HAND SIMILAR
OSB	ORIENTED STRAND BOARD
OAE	OR APPROVED EQUAL
OZ	OUNCE (S)
OD	OUTSIDE DIAMETER
OA	OVERALL
OH	OVERHEAD
OHB	OVERHEAD BRACED
OHD	OVERHEAD DOOR
OF	OWNER FURNISHED
OFI	OWNER FURNISHED & INSTALLED
OFCI	OWNER FURNISH-CONTRACTOR INSTALL
OX	OXYGEN
PT	PRESSURE TREATED
PNT, PTD	PAINT, PAINTED
PR	PAIR
PNL	PANEL
PAR, //	PARALLEL
PBD	PARTICLE BOARD
PTN	PARTITION
PCT or %	PERCENT (AGE)
PF	PERFORATED (D)
PERIM	PERIMETER
PERP, ⊥	PERPENDICULAR
P	PHASE
P&I	PROVIDE & INSTALL
PLAS	PLASTER
PL	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNU	PNEUMATIC
POL	POLISH (ED)
PE	PORCELAIN ENAMEL
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PIC	POURED INPLACE CONCRETE
PDF	POWER DRIVEN FASTENER (ING)
PCC	PRECAST CONCRETE
PREFAB	PREFABRICATED
PRN	PREFINISH (ED)
PRF	PREFORMED
PM	PREMOLDED
PMTL	PRESSED METAL
PVT	PRIVATE
PROJ	PROJECT
PRTYL, ⅊	PROPERTY LINE
PUB	PUBLIC
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PU	PULL, PULL CHAIN
PP	PUMP
PD	PUMP DISCHARGE
PIV	POST INDICATOR VALUE
PC	PHYSICALLY CHALLENGED
PVC	POLY VINYL CHLORIDE
QT	QUARRY TILE
RW	RACEWAY
RAD	RADIATOR, RADIATION
RA, R	RADIUS
R	RISER
RL	RAIL, RAILING
RR	RAILROAD
RECP	RECEPTACLE
REF	REFERENCE
RFL	REFLECTIVE
RE	REFER TO
REG	REGISTER
RFC	REINFORCE (D) (ING)
RC	REINFORCED CONCRETE
REQ,REQ'D	REQUIRE(ED), REQUIREMENTS
R & S	REMOVE AND SALVAGE
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND REINSTALL
RESIL	RESILIENT
RTN	RETAIN (ED) (ER) (ING)
RVS, REV	REVERSE (SIDE)
REV	REVISE (ED), REVISION
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RH	RIGHT HAND
ROW	RIGHT-OF-WAY
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RU	RUBBER
RP	RUSTPROOF (ING)
SDL	SADDLE
SAN	SANITARY (SEWER)
SCN	SCREEN
SLT	SEALANT
SLR	SEALER
STG	SEATING
SEC	SECTION
SEL	SELECT (OR)
SPT	SEPTIC TANK
SVC	SERVICE
SSK	SERVICE SINK
STH	SHEATHING
SHT	SHEET
SH	SHELF, SHELVING
S & R	SHELF & ROD
SHR	SHOWER RECEPTOR
SIM	SIMILAR (TO)
SH	SINGLE HUNG
SK	SINK
SKL	SKYLIGHT
SL	SLEEVE
SDE, SD	SMOKE DETECTOR
SMV	SMOKE-VENTING HATCH
SCWD	SOLID CORE WOOD
SSM	SOLID SURFACE MATERIAL
SP	SOUNDPROOF
SPK	SPEAKER
SPEC	SPECIFICATIONS
SPF	SPECIFIED
SPR	SPRINKLER
SQ, ⌽	SQUARE
SF	SQUARE FOOT (FEET)
SY	SQUARE YARD
STAG	STAGGER
SS	STAINLESS STEEL
STD	STANDARD
ST	STEEL
STIFF	STIFFENER
STN	STONE
STO	STORAGE
SD	STORM DRAIN
ST	STREET
S	STRUCTURAL
SIP	STRUCTURAL INSULATED PANEL
SUP	SUPPORT
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTIC TILE
SUSP CEIL	SUSPENDED CEILING
SYM	SYMMETRY (ICAL)
SYS	SYSTEM
TB	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
TMP, TEMP	TEMPER (ED)
TCV	TEMPERATURE CONTROL VALVE
TP	TEST PIT
TZ	TERRAZZO
THM	THERMOMETER
THS	THERMOSTAT
TH	THICK, THICKNESS
THR	THRESHOLD
TCL	TIME CLOCK
TOL	TOLERANCE
TG, T & G	TONGUE AND GROOVE
TO	TOP OF
TOC	TOP OF CONCRETE / CURB
TOS, TS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSFORMER
TR	TRANSOM
TJI	TRUSS JOIST 'I' SECTION
TP	TURNING POINT
TYP	TYPICAL
TOM	TOP OF MASONRY
UHF	ULTRAHIGH FREQUENCY
UF	UNDERFLOOR (DUCT)
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UH	UNIT HEATER
UK	UNIT KITCHEN
UV	UNIT VENTILATOR
UAS	UPWARD ACTING SECTIONAL
VJ	V-JOINTED
VA	VACUUM
VAB	VACUUM BREAKER
VB	VAPOR BARRIER
VP	VAPORPROOF
VNR	VENEER
VE	VENT
VR, VTR	VENT THROUGH ROOF
VTR	VENTILATOR
VER, VERT	VERTICAL
VHF	VERY HIGH FREQUENCY
VLF	VERY LOW FREQUENCY
VI	VIBRATION ISOLATOR
VIF	VERIFY IN FIELD
VNL	VINYL
VCT	VINYL COMPOSITION TILE
VB	VINYL BASE
VF	VINYL FABRIC
VQT	VINYL QUARTZ TILE
VS	VINYL SHEET
VT	VINYL TILE
VIT	VITREOUS
VC	VITRIFIED CLAY
V	VOLT (AGE)
VWC	VINYL WALLCOVERING
WN	WAINSCOT
WH	WALL-HUNG
WHY	WALL HYDRANT
WTW	WALL TO WALL
W	WASTE
WR	WASTE RECEPTACLES
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WP	WATERPROOF (ED), (ING)
WPT (WP)	WORK (ING) POINT
WST	WEATHER STRIPPING
WE	WEEPHOLE
WWF	WELDED WIRE FABRIC
WID	WIDE, WIDTH
WF	WIDE-FLANGE BEAM
WG	WIRE GLASS
WM	WIRE MESH
W, W/	WITH
W/IN	WITHIN
WO, W/O	WITHOUT
WD	WOOD
WB	WOOD BASE
WBM	WOOD BEAM
WBO	WORK BY OTHERS
WBOR	WORK BY OWNER
WBT	WORK BY TENANT
WK	WORK
WKRM	WORKROOM
WI	WROUGHT IRON
XR	X-RAY
Y	WYE FITTING
Z	ZONE
ZC	ZINC COATED
ZS	ZEE STUD

GRAPHIC SYMBOLS



Certification

Drawn by: Author
Checked by: Checker

Revised on

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Project

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Drawing Status
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Sheet Contents
ABBREVIATIONS & SYMBOLS

Project Number. 6846

Drawing No. G001

Sheet of

GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY "DIGSAFE" (811) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. LIMITED EXISTING CONDITIONS SURVEY COMPLETED BY JOE CASALI ENGINEERING, INC., IN DECEMBER 2024. PROPERTY LINE INFORMATION OBTAINED FROM TOWN OF BRISTOL GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE AND SHOULD BE CONSIDERED APPROXIMATE.
3. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE. ANY DIFFERENCES IN THE LOCATION OF EXISTING UTILITIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CITY AND THE CONSULTING ENGINEER.
4. THE PROJECT AREA LIES WITHIN FLOOD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE FIRM MAP FOR THE TOWN OF BRISTOL, MAP NUMBER 44001C0014H, EFFECTIVE DATE JULY 7, 2014.
3. THERE ARE NO KNOWN ACTIVE AGRICULTURAL USES ON OR ADJACENT TO THE SITE. THERE ARE NO HISTORIC CEMETERIES ON OR IMMEDIATELY ADJACENT TO THE SITE.
4. THERE ARE NO KNOWN WETLANDS ON OR IMMEDIATELY ADJACENT TO THE SITE. THE SITE LIES WITHIN RIVER REGION 2.
5. EXISTING SOILS ON THE SITE HAVE BEEN CLASSIFIED AS NEWPORT-URBAN LAND COMPLEX (NP). NP SOILS GENERALLY CONSIST OF LOAMY LODGEMENT TILL (SILT LOAM), WITH A DEPTH TO THE SEASONAL HIGH GROUNDWATER TABLE OF ABOUT 24-INCHES, BELONGING TO HYDROLOGIC SOIL GROUP C.

SITE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
2. ACCESSIBLE ROUTES INCLUDING SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICAN WITH DISABILITIES ACT AND WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS, WHICHEVER IS MORE STRINGENT.
3. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
4. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
5. THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR.
7. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
8. REFER TO ARCHITECTURAL PLANS, STRUCTURAL PLANS, PLUMBING PLANS AND ELECTRICAL PLANS FOR WORK WITHIN 5 FEET OF THE EXISTING BUILDING.
9. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN AT NO ADDITIONAL COST TO THE TOWN.
10. ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE TOWN.
11. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION, UNLESS OTHERWISE NOTED ON THE SITE PLANS.
12. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
13. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
14. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
15. ALL SITE WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, AUGUST 2024 (WITH LATEST REVISIONS AND ADDENDA) AND THE RIDOT STANDARD DETAILS, OCTOBER 2022 (WITH LATEST REVISIONS AND ADDENDA).

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.
2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
3. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE CITY RIGHT-OF-WAY.
4. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC, SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION.
5. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

1. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
2. ALL CATCH BASINS SHALL BE PROTECTED WITH SILTSACK SEDIMENT TRAPS DURING CONSTRUCTION ACTIVITIES.
3. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STANDING OF VEGETATION IS MAINTAINED.
4. ALL COMPOST SOCKS, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
5. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
6. THE COMPOST SOCKS SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY COMPOST SOCKS AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE COMPOST SOCK BECOMES FILLED WITH SEDIMENTS.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER, TOWN ENGINEER, OR OWNER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
8. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993 AMENDED 2014.

UTILITY NOTES:

1. PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS TO USE CAUTION WHEN OPERATING HEAVY EQUIPMENT NEAR OVERHEAD ELECTRIC AND TELEPHONE SERVICES. ALL EXISTING OVERHEAD AND SUBSURFACE ELECTRIC AND TELECOMMUNICATIONS SERVICES ARE TO BE PROTECTED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. CONTRACTOR IS TO USE CAUTION WHEN OPERATING HEAVY EQUIPMENT NEAR EXISTING WATER, SEWER, GAS, DRAINAGE, AND OTHER POTENTIAL UTILITY LINES. UTILITY SERVICES NOT PROPOSED TO BE MODIFIED BY THE PROPOSED WORK ARE TO REMAIN IN SERVICE AND BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
5. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT THEIR OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
6. EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED WITHIN WORK AREAS.

LOAMING & SEEDING NOTES:

SEEDING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION L.02 SEEDING OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA), AND SHALL ALSO CONFORM TO THE FOLLOWING:

1. AFTER ROUGH GRADING IS COMPLETED, ALL DISTURBED AREAS AND AREAS LABELED AS 'LOAM AND SEED' ARE TO BE BROUGHT TO AN ELEVATION OF 6" BELOW THE PROPOSED FINISHED GRADE. SCARIFY THE SUBGRADE TO A DEPTH OF 12" WITH THE TEETH OF A BACKHOE OR A POWER RAKE TO RESULT IN AN UNCOMPACTED SUBSOIL. 6" OF GOOD QUALITY TOPSOIL IS TO BE APPLIED AND RAKED TO FINISHED GRADE.
2. THE TOPSOIL IS TO BE GOOD QUALITY LOAM, FERTILE AND FREE OF WEEDS, STICKS AND STONES OVER 3/4" IN SIZE AND OTHERWISE COMPLYING WITH SECTION M.18.01 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA),
3. PRIOR TO SEEDING OR SODDING, FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 1-2" OF THE PLANTING SOIL. APPLY AT A RATE OF 8 LBS. PER 1000 SQUARE FEET.
4. APPLY LIME AT A RATE OF ONE TON PER ACRE AND UNIFORMLY INCORPORATE INTO THE TOP 1-2" OF TOPSOIL.
5. SEEDING
   AFTER THE SEED BED IS PREPARED, SEED IS TO BE BROADCAST EVENLY OVER THE SURFACE AND WORKED INTO THE TOP 1" OF SOIL. SEED SHALL BE APPROVED URI #2 OR APPROVED EQUAL. APPLY AT A RATE OF 4-5 LBS. PER 1000 SQUARE FEET OR AS OTHERWISE DIRECTED BY THE MANUFACTURER.

   URI #2 IMPROVED SEED MIX, % BY WEIGHT:

   40% CREEPING RED FESCUE
   20% IMPROVED PERENNIAL RYEGRASS
   20% IMPROVED KENTUCKY BLUEGRASS
   20% KENTUCKY BLUEGRASS

   RECOMMENDED SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 15. AT THE CONTRACTORS DISCRETION, SEED MAY BE APPLIED BY HYDROSEEDING RATHER THAN THE METHOD DESCRIBED ABOVE.

BMP MAINTENANCE SCHEDULE:

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

   A. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.

   B. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
2. UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
3. ALL INSTALLATION, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 212 AND SECTION 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE INSTALLATION, CLEANING, INSPECTION, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, 2010).
4. AFTER CONSTRUCTION, STORMWATER BMPS SHALL BE INSPECTED AND MAINTAINED BY THE TOWN OF BRISTOL AS FOLLOWS:

   CATCH BASINS
   - INSPECTIONS SHALL BE PERFORMED A MINIMUM OF 2 TIMES PER YEAR (SPRING/FALL). UNITS SHALL BE CLEANED WHENEVER THE DEPTH OF SEDIMENT IS GREATER THAN OR EQUAL TO 2-FEET (LESS THAN 2-FEET FROM THE BOTTOM OF PIPE). ALL REMOVED SEDIMENT SHALL BE TESTED TO DETERMINE POLLUTANT CONTENT AND SHALL BE REMOVED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
   - THE INLET GRATE SHALL NOT BE WELDED TO THE FRAME SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.

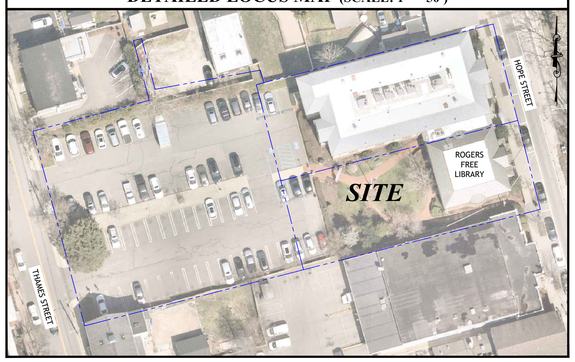
   ROOF DRAIN LEADERS
   - PERFORM ROUTINE ROOF INSPECTIONS QUARTERLY.
   - KEEP ROOFS CLEAN AND FREE OF DEBRIS.
   - KEEP ROOF DRAINAGE SYSTEMS CLEAR.

LEGEND:

- EXISTING PROPERTY LINE
- ABUTTING PROPERTY LINE
- BUILDING SETBACK LINE
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- EXISTING CURB
- PROPOSED CURB
- EXISTING GUARD RAIL
- LANDSCAPE BED/GRASS DELINEATION
- D EXISTING DRAIN LINE
- D PROPOSED DRAIN LINE
- EXISTING DRAINAGE MANHOLE
- PROPOSED DRAINAGE MANHOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING UTILITY POLE
- TEL EXISTING TELECOM DUCTBANK
- E EXISTING ELECTRIC DUCTBANK
- GAS EXISTING GAS LINE
- W EXISTING WATER LINE
- EXISTING WATER SHUT OFF VALVE
- S EXISTING SEWER LINE
- EXISTING SEWER MANHOLE
- N/F NOW OR FORMERLY
- TREELINE
- SILT FENCE
- LOD LIMIT OF DISTURBANCE

LOCUS MAP (NOT TO SCALE)

DETAILED LOCUS MAP (SCALE: 1" = 50')



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1-888-344-7233

Certification

JOSEPH A. CASALI
No. 7250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/19/2025

Drawn by DRD
Checked by JAC

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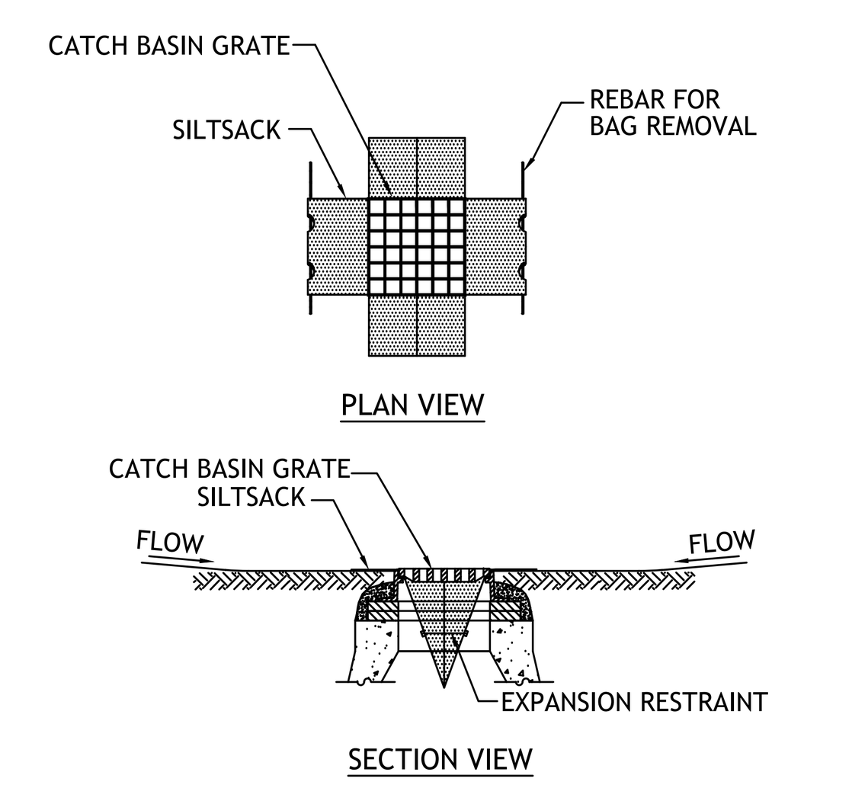
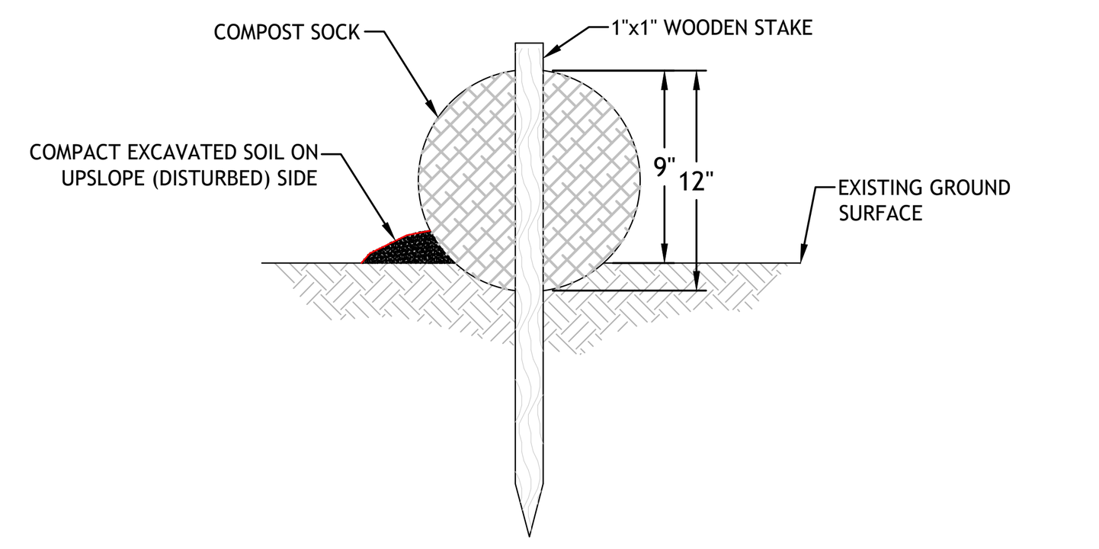


Notes:
INSTALL SILTSACK IN SELECTED CATCH BASINS IDENTIFIED ON THE EXISTING CONDITIONS AND SITE PREPARATION PLAN BEFORE COMMENCING WORK.

GRATE TO BE PLACED OVER SILTSACK. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

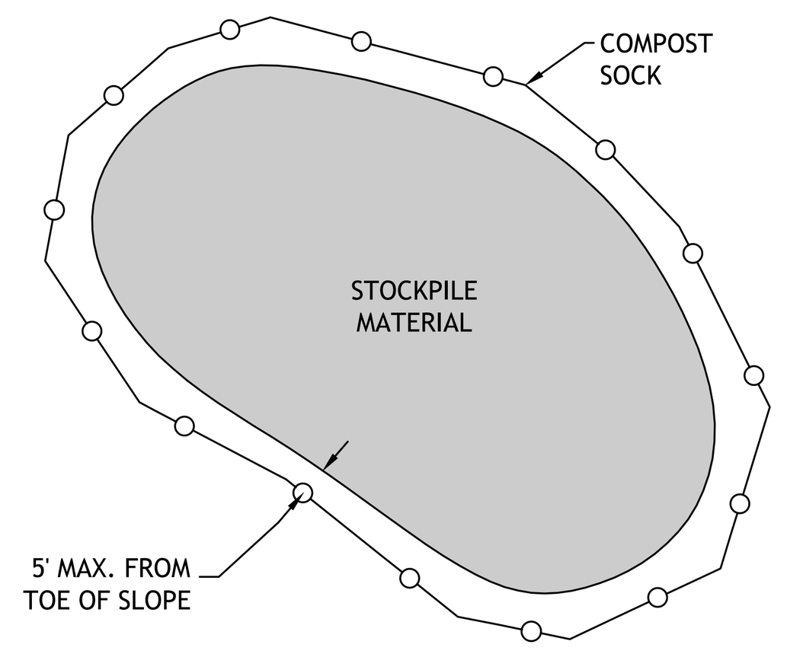
1 SILT SACK SEDIMENT TRAP
NOT TO SCALE



NOTES:
1. BEGIN WATTLE INSTALLATION BY EXCAVATING A 2 TO 3-INCH-DEEP BY 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE OR ALONG THE EXISTING GROUND SURFACE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE OR ON THE DISTURBED SIDE OF THE ANCHOR TRENCH.
2. PLACE WATTLE IN THE TRENCH SUCH THAT IT CONTOURS TO THE EXISTING SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UP-SLOPE OR DISTURBED SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE WATTLE WITH 18 TO 24-INCH-LONG STAKES. INSTALL AN ADDITIONAL STAKE AT EACH END OF THE WATTLE. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2 TO 3 INCHES OF STAKE EXTENDING ABOVE. THE STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE OR GROUND SURFACE.

2 COMPOST SOCK
NOT TO SCALE

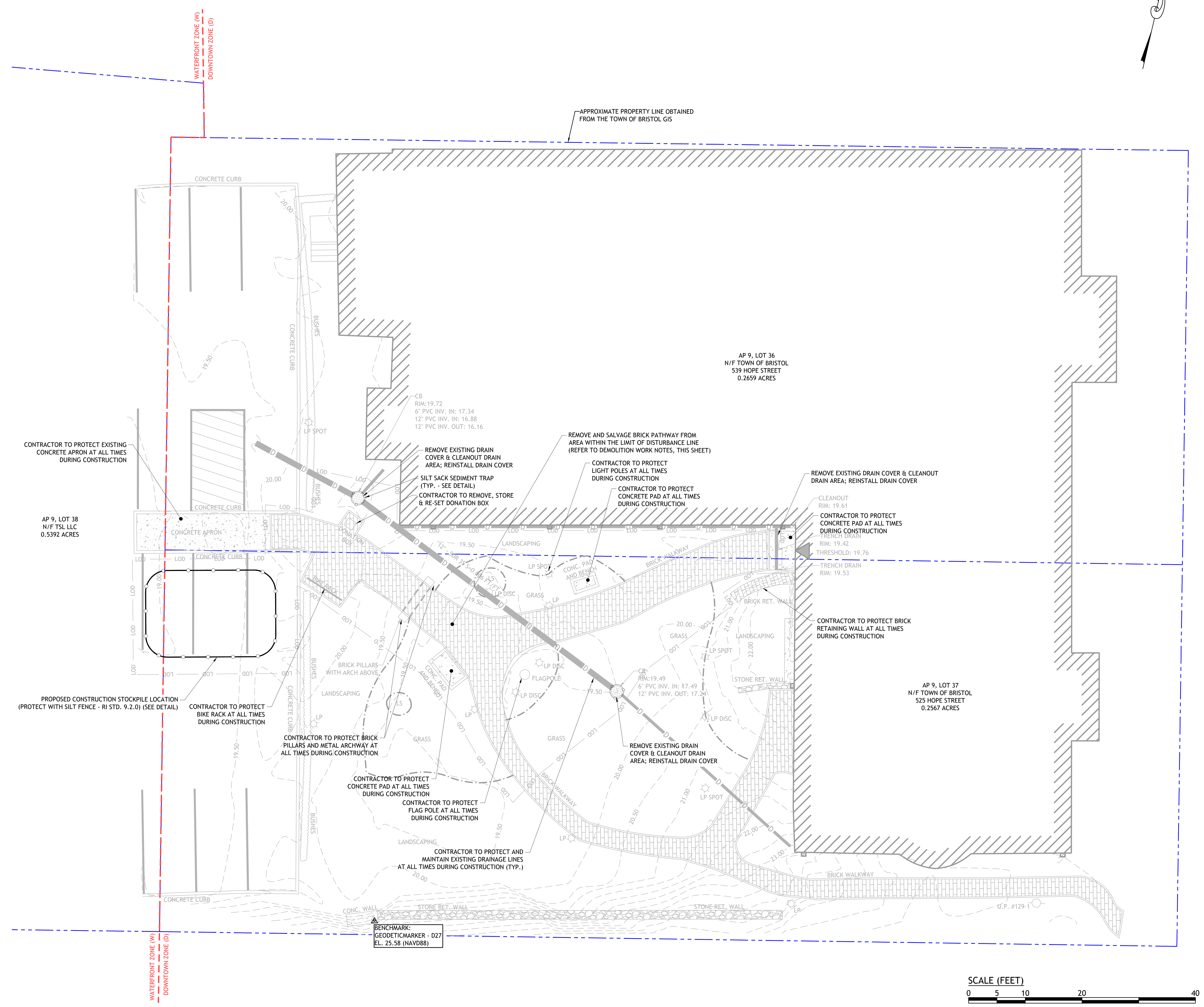
NOTE TO CONTRACTOR:
CONTRACTOR TO COORDINATE WITH OWNER ON FINAL LOCATION OF STOCKPILE / STAGING AREAS.



3 STOCKPILE DETAIL
NOT TO SCALE

DEMOLITION WORK NOTES:

1. SETTLED BRICKS AT REAR BRICK PATH WILL BE RAISED TO PROVIDE PROPER DRAINAGE AND TO ELIMINATE PONDING DURING HEAVY RAINFALL.
2. REMOVE BRICK AT BRICK PATH WITHIN LIMIT OF DISTURBANCE SHOWN AND SALVAGE FOR REUSE. REPLACE ANY BRICK THAT CANNOT BE REUSED WITH NEW TO MATCH EXISTING.
3. REMOVE AND DISPOSE SAND & GRAVEL BED; REPLACE WITH NEW SAND & GRAVEL BED. BRICK PATH ELEVATION TO INCREASE 2-INCHES MIN. PROVIDE CROSS SLOPE OF 2% MAX. REFER TO BRICK PATH DETAIL.



SCALE (FEET)
0 5 10 20 40
1 INCH = 10 FT

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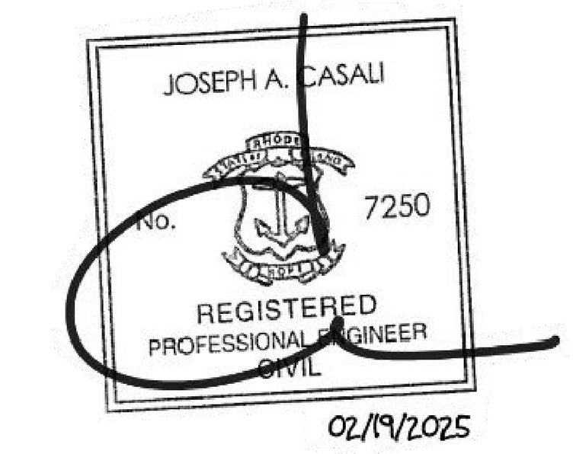

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EXISTING CONDITIONS AND SITE PREP. PLAN

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Drawing No. C100

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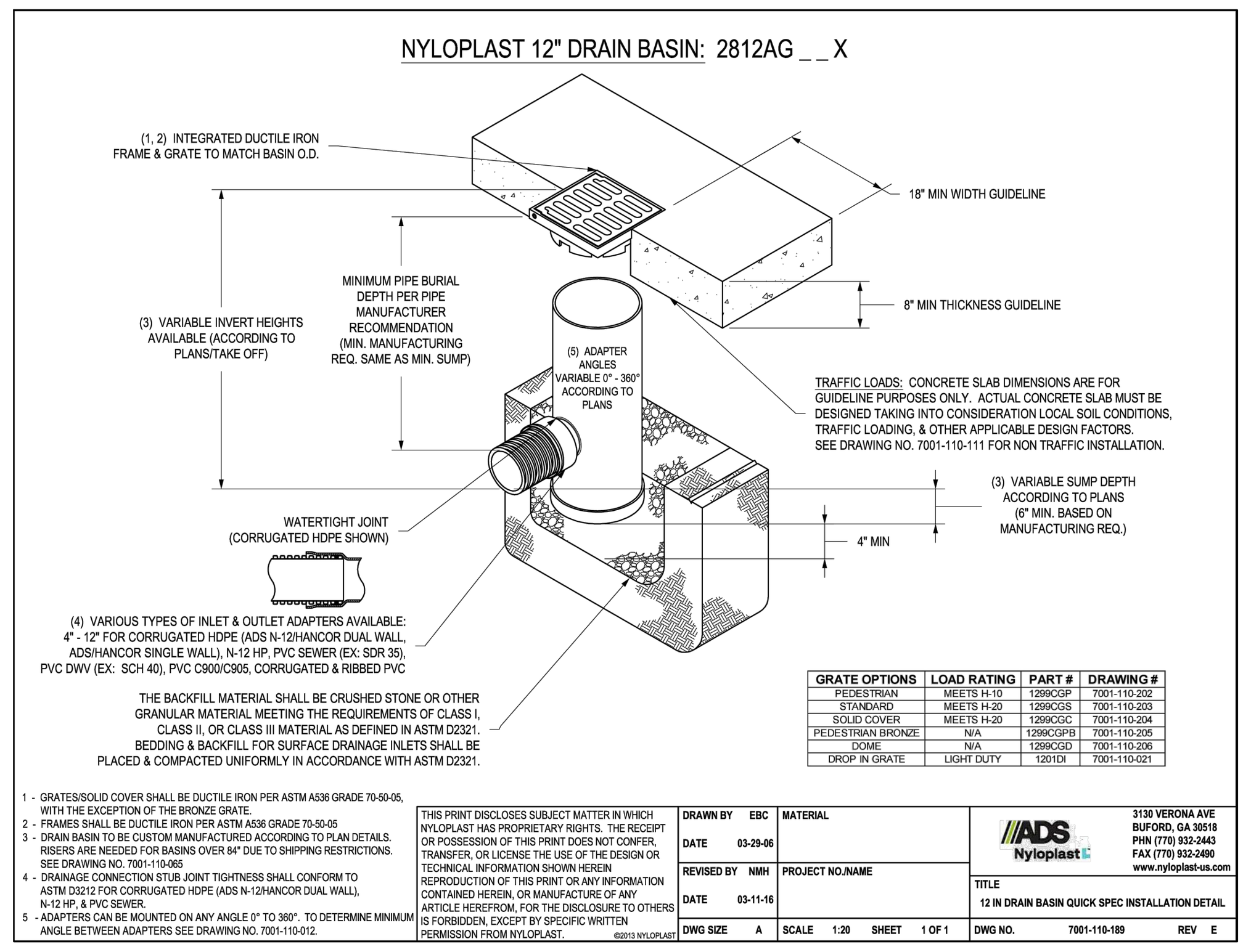
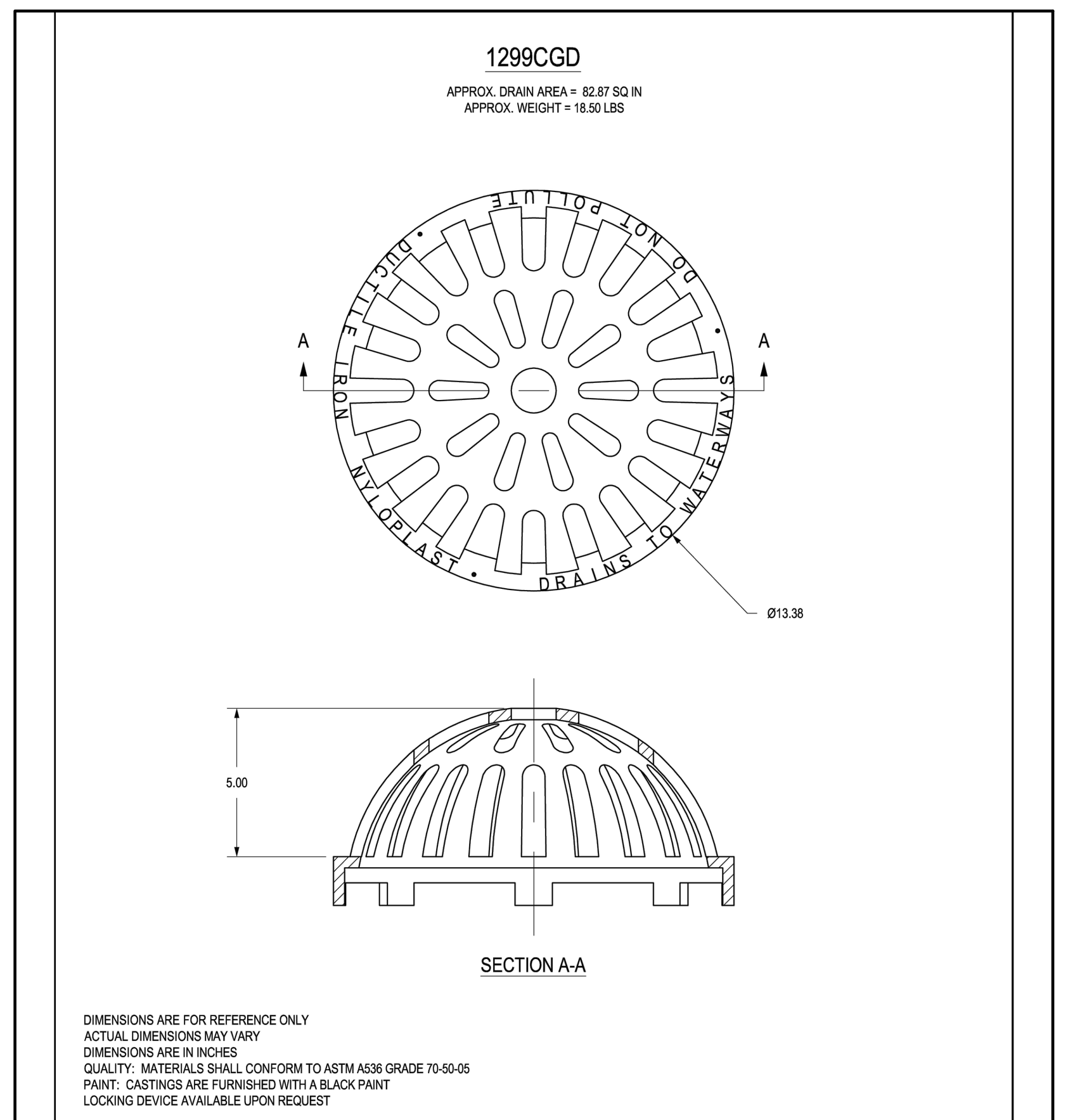
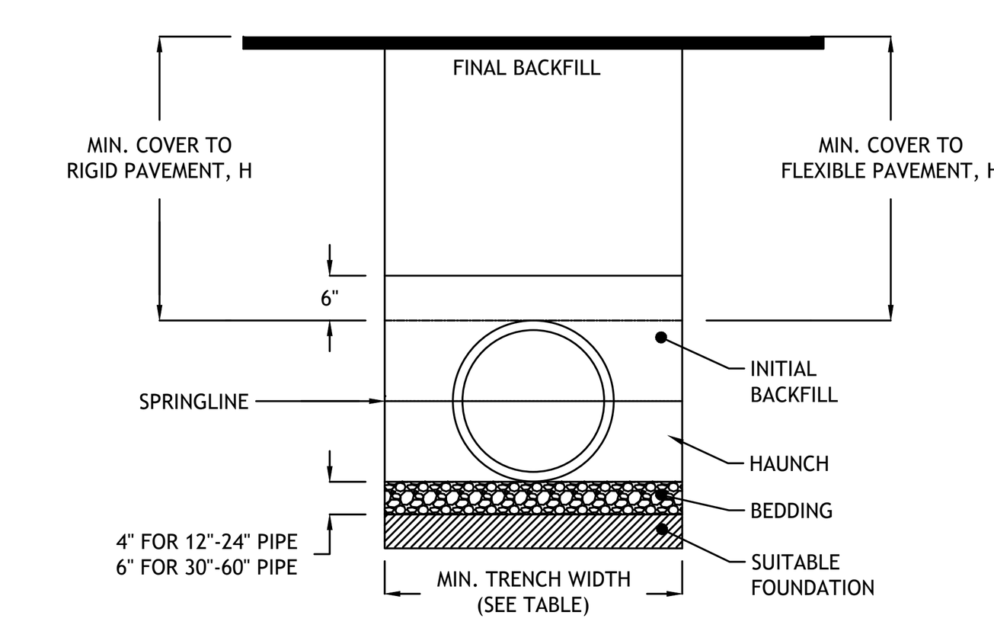


4 NYLOPLAST 12" DRAIN BASIN DETAIL
NOT TO SCALE



5 NYLOPLAST 12" DOME GRATE DETAIL
NOT TO SCALE



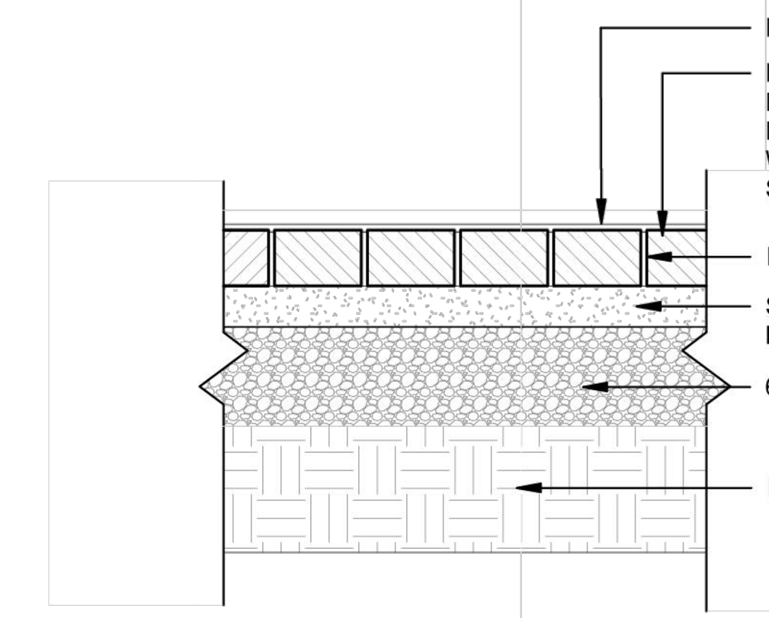
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

6 DRAIN PIPE TRENCH INSTALLATION DETAIL
NOT TO SCALE



7 BRICK PATH DETAIL (PER RGB)
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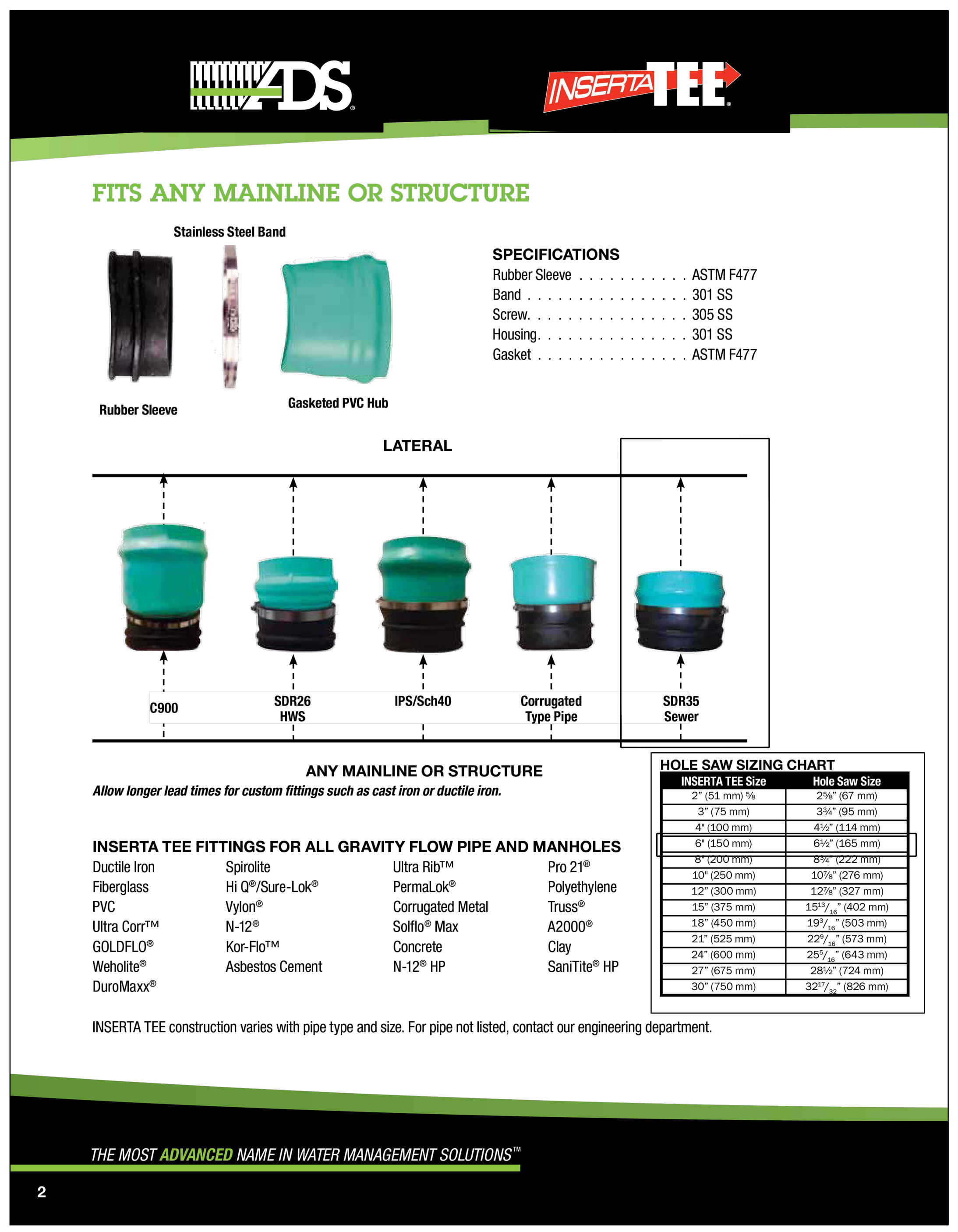

FITS ANY MAINLINE OR STRUCTURE

SPECIFICATIONS
Rubber Sleeve . . . . ASTM F477
Band . . . . 301 SS
Screw. . . . . 305 SS
Housing. . . . . 301 SS
Gasket . . . . ASTM F477

ANY MAINLINE OR STRUCTURE
Allow longer lead times for custom fittings such as cast iron or ductile iron.

INSERTA TEE FITTINGS FOR ALL GRAVITY FLOW PIPE AND MANHOLES

Ductile Iron	Spirolite	Ultra Rib™	Pro 21®
Fiberglass	Hi Q®/Sure-Lok®	PermaLok®	Polyethylene
PVC	Vylon®	Corrugated Metal	Truss®
Ultra Corr™	N-12®	Solflo® Max	A2000®
GOLDFLO®	Kor-Flo™	Concrete	Clay
Weholite®	Asbestos Cement	N-12® HP	SaniTite® HP
DuroMaxx®			

HOLE SAW SIZING CHART

INSERTA TEE Size	Hole Saw Size
2" (51 mm) 5/8	2 5/8" (67 mm)
3" (75 mm)	3 3/4" (95 mm)
4" (100 mm)	4 1/2" (114 mm)
6" (150 mm)	6 1/2" (165 mm)
8" (200 mm)	8 3/4" (222 mm)
10" (250 mm)	10 7/8" (276 mm)
12" (300 mm)	12 7/8" (327 mm)
15" (375 mm)	15 13/16" (402 mm)
18" (450 mm)	19 3/16" (503 mm)
21" (525 mm)	22 9/16" (573 mm)
24" (600 mm)	25 5/16" (643 mm)
27" (675 mm)	28 1/2" (724 mm)
30" (750 mm)	32 17/32" (826 mm)

INSERTA TEE construction varies with pipe type and size. For pipe not listed, contact our engineering department.

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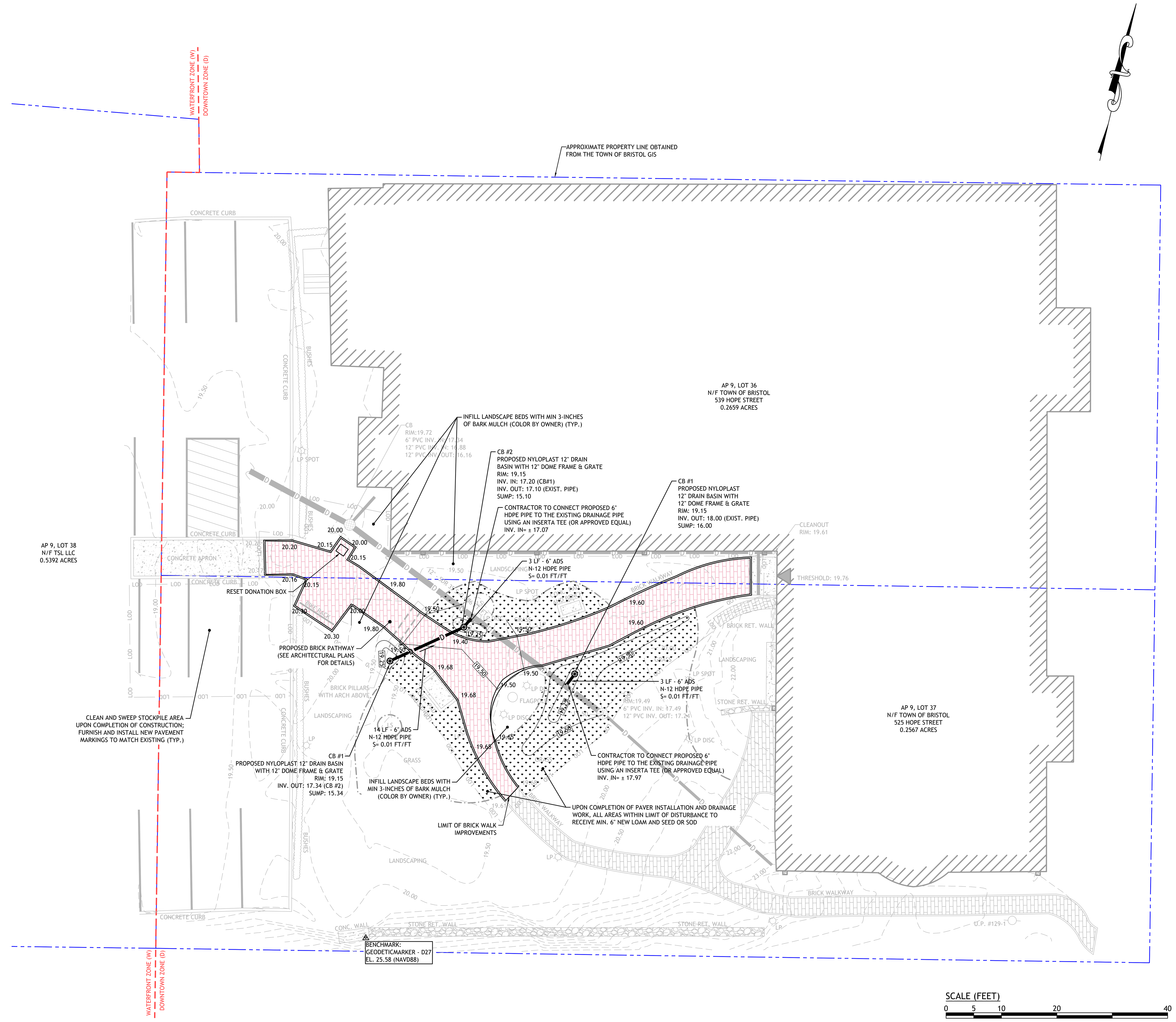
2



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Certification
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No. 7250
REGISTERED PROFESSIONAL ENGINEER CIVIL
02/19/2025

Drawn by DRD
Checked by JAC

Revised on

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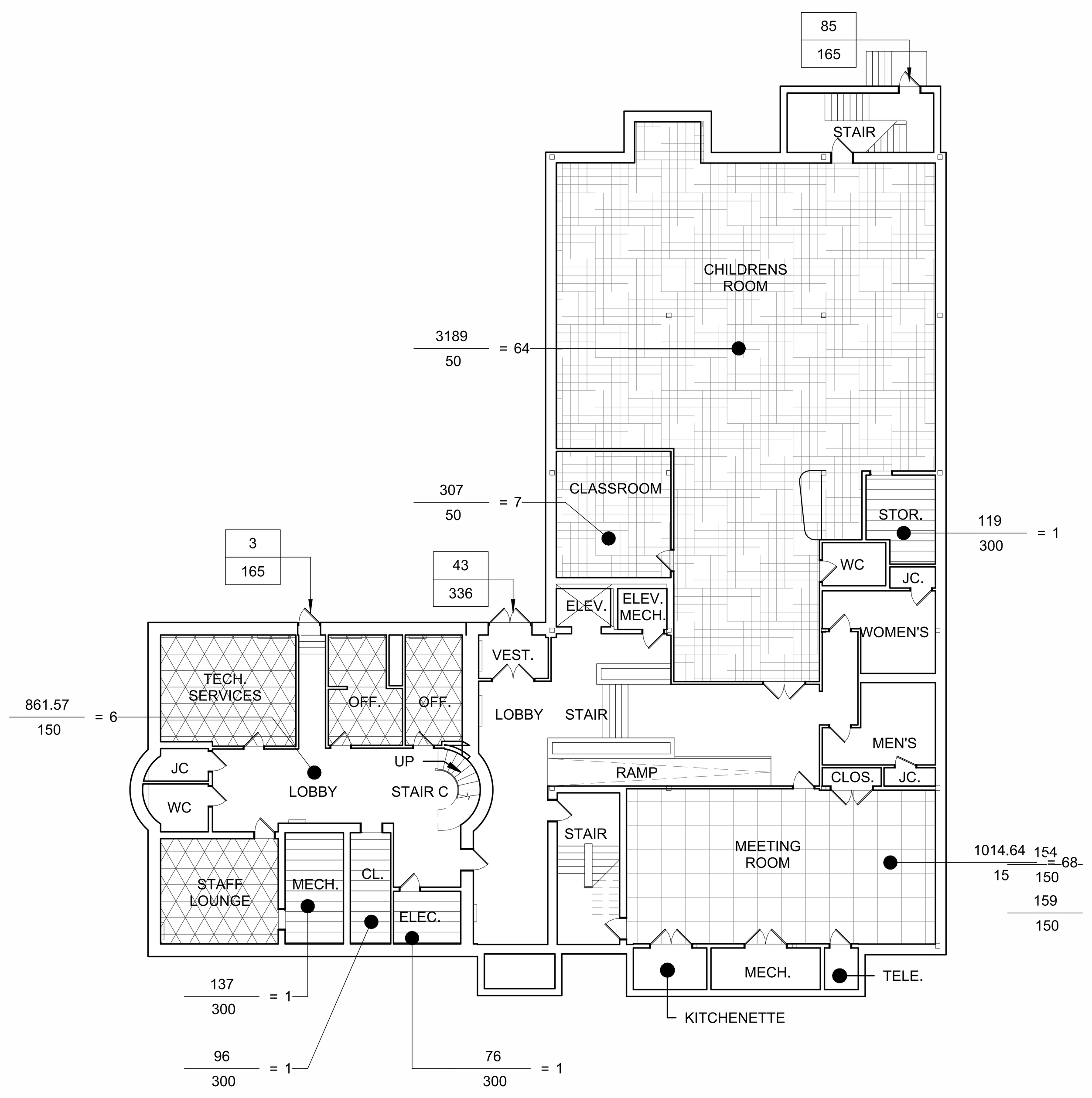
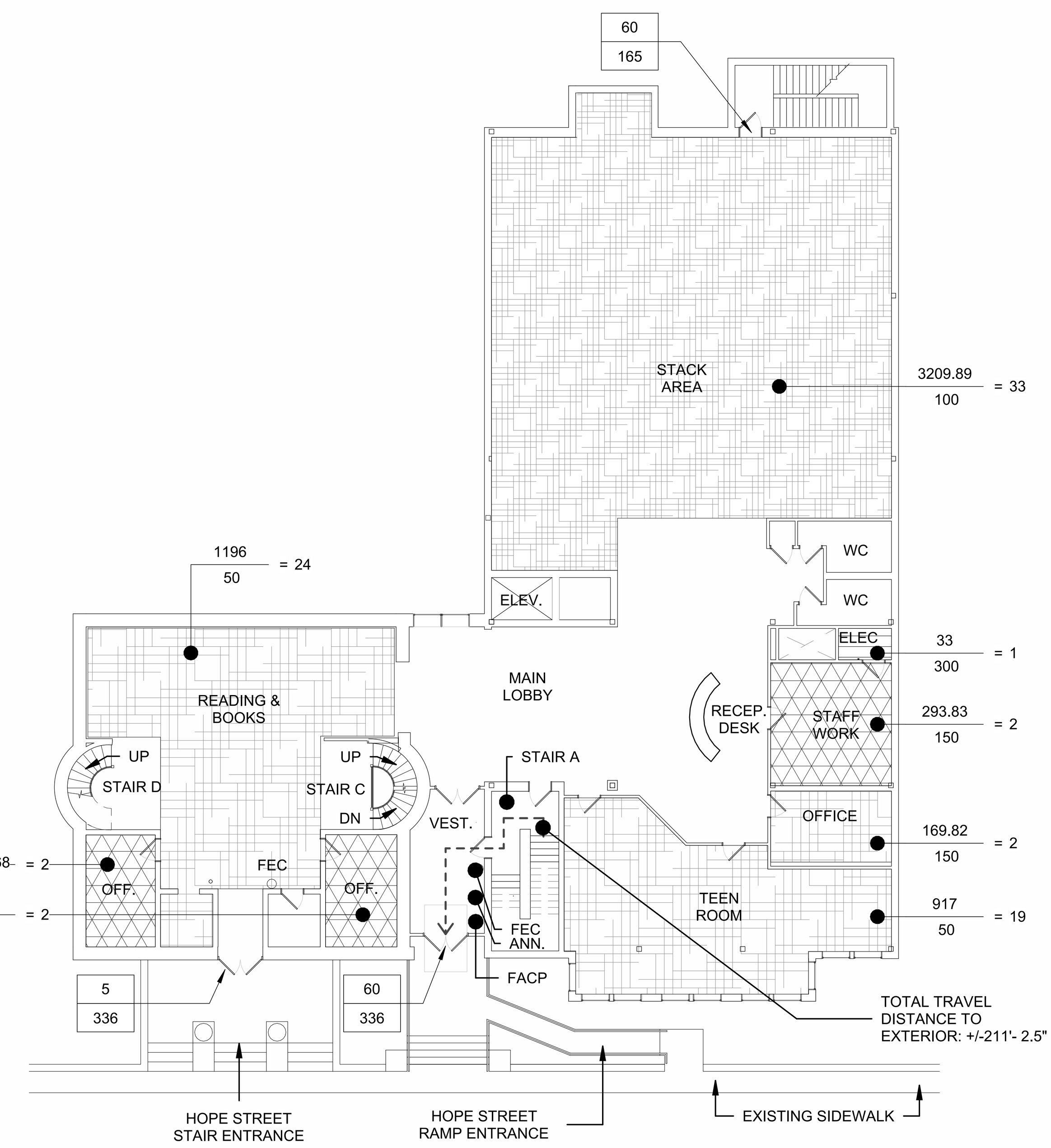


PLAN NORTH

3 A010 FIRST FLOOR CODE REVIEW PLAN

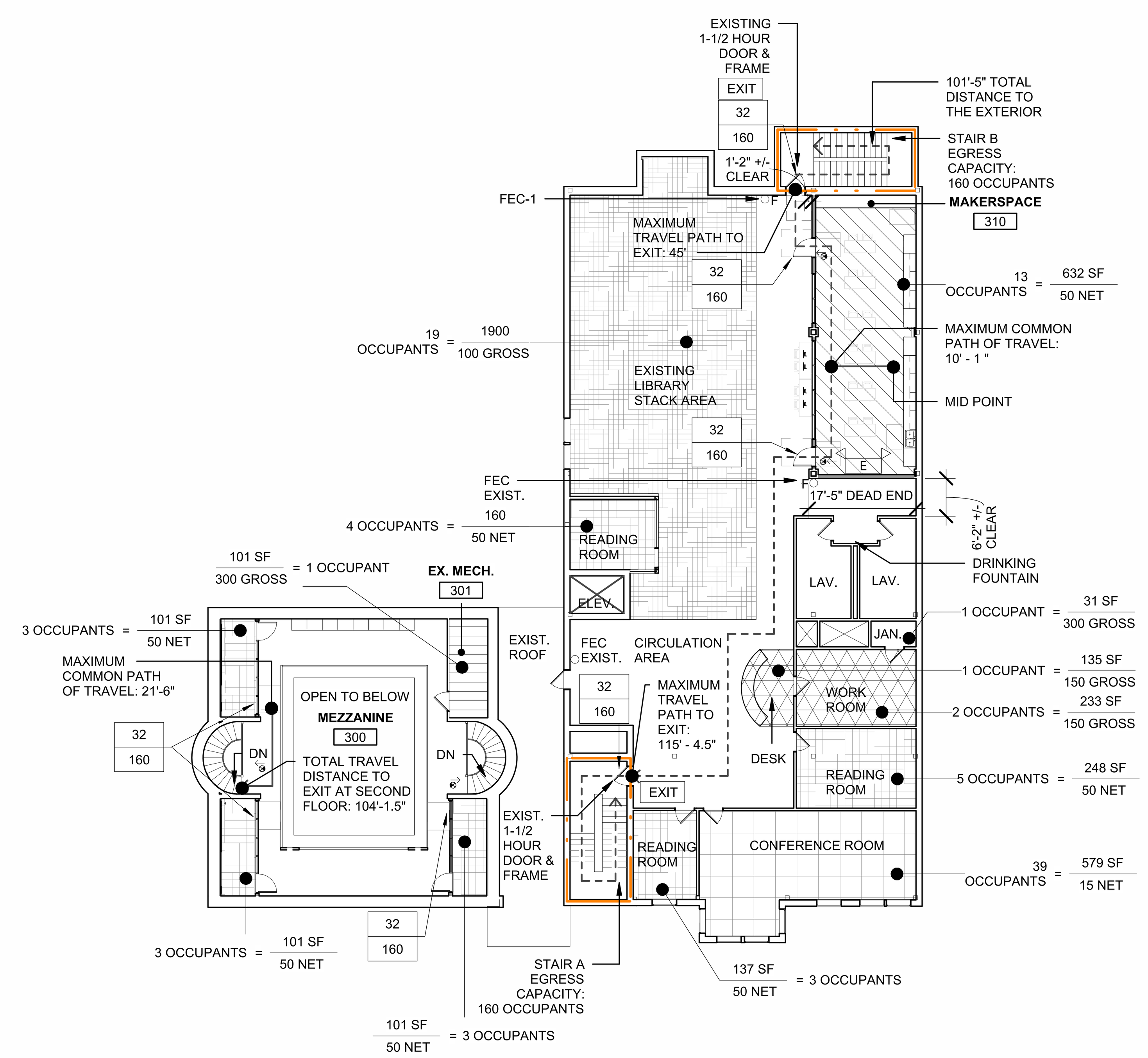
Scale: 1/16" = 1'-0"



PLAN NORTH

1 A010 SECOND FLOOR - CODE REVIEW PLAN

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



PLAN NORTH

2 A010 THIRD FLOOR - CODE REVIEW PLAN

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

BUILDING & FIRE CODE DATA

RHODE ISLAND STATE BUILDING CODES

SBC-01-2021	BUILDING CODE	IBC-2018 plus RI Amendments
SBC-03-2021	PLUMBING CODE	IPC-2018 plus RI Amendments
SBC-04-2021	MECHANICAL CODE	IMC-2018 plus RI Amendments
SBC-05-2021	ELECTRIC CODE	NEC-2020 plus RI Amendments
SBC-08-2021	ENERGY CONSERVATION CODE	IECC-2018 plus RI Amendments
SBC-19-2021	FUEL GAS CODE	IFGC-2018 plus RI Amendments

RI ACCESSIBILITY REGULATIONS
SBC-1-2021 IBC-2018 Chapter 11;
ICC/ANSI A117.1 2009 plus RI Amendments 2010 07 01
AMERICANS w/ DISABILITIES ACT (ADA - 2010)

SRC-01-2002 RI State Rehabilitation Building & Fire Code for Existing Buildings & Structures 2002 05 01

RHODE ISLAND FIRE SAFETY CODE (RIFSC-2021)

RHODE ISLAND FIRE LAWS (RIFL)
TITLE 23, CHAPTERS 28.1 - 28.39

RULES & REGULATIONS PROMULGATED BY the Board of Appeals & Review
SECTIONS 1 THRU 15

RHODE ISLAND UNIFORM FIRE CODE (RIUFC - 2021)
NFPA 1-2018 plus RI AMENDMENTS

RHODE ISLAND LIFE SAFETY CODE (RILSC - 2021)
NFPA 101-2018 plus RI AMENDMENTS 2019

ADDITIONAL APPLICABLE NFPA STANDARDS

NFPA 10	2013 PORTABLE FIRE EXTINGUISHERS
NFPA 13	2013 INSTALLATION OF SPRINKLER SYSTEMS
NFPA 14	2013 STANDPIPES
NFPA 72	2019 NATIONAL FIRE ALARM CODE PLUS RI AMENDMENTS
NFPA 220	2015 STANDARD OF TYPES OF BUILDING CONSTRUCTION
NFPA 701	2010 STANDARD METHOD OF FIRE TESTS FOR FLAME PROPAGATION OF TEXTILES

RHODE ISLAND ELEVATOR SAFETY CODE (RIESC-2012)

AMERICAN NATIONAL SAFETY CODE FOR (new) ELEVATORS & DUMBWAITERS ASME A 17.1 & ASME A 18.1 plus RI State Code Amendments of A17.1 dated 2012 01 29

AMERICAN NATIONAL SAFETY CODE FOR Existing ELEVATORS & Escalators ASME A 17.2 & A 17.3 plus RI State Code Amendments of A17.3 dated 2012 01 29

A. OCCUPANCY & USE
IBC CHAPTERS 3 & 4, NFPA 101 CHAPTER 13

OCCUPANCY GROUP: ASSEMBLY (A3)

B. CONSTRUCTION TYPES & SEPARATION REQUIREMENTS — IBC CHAPTER 5

CONSTRUCTION TYPE: **IIIB** (IBC TABLE 503) **III(200)** NFPA 220

1-HR RATED SEPARATION (EXISTING)

BUILDING ELEMENT	RATING IN HOURS	
	IBC (table 601) IIIB	NFPA 220 (table 4.1.1) III(200)
STRUCTURAL FRAME	0	0
BEARING WALLS EXTERIOR INTERIOR	2 0	2 0
NON BEARING WALLS AND PARTITIONS EXTERIOR	0	0
NON BEARING WALLS AND PARTITIONS INTERIOR	0	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0	0
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0	0

C. ALLOWABLE AREA & HEIGHT

1. **BUILDING AREA** (*IBC TABLE 506.2 FOR **IIIB** CONSTRUCTION PROTECTED BY AUTOMATIC SPRINKLER SYSTEM*):

   OCCUPANCY: A3 (LIBRARY) = 28,500 GSF / FLOOR

2. BUILDING **HEIGHT** (IBC TABLE 504.3 FOR IIIB CONSTUCTION)

   OCCUPANCY CLASSIFICATION: **A** = 3 STORIES / 75' ABOVE GRADE

ACTUAL AREA & HEIGHT

1. **AREA**

FIRST FLOOR	10,072 GSF
SECOND FLOOR	10,072 GSF
THIRD FLOOR	7,120 GSF
TOTAL BUILDING AREA (EXISTING)	**27,264 GSF**

2. **BUILDING HEIGHT**

   BUILDING HEIGHT (EXISTING) = 3 STORIES / 43'-2" ABOVE GRADE

D. FIRE RESISTANCE-RATED CONSTRUCTION

- EXISTING STAIR WELLS ARE RATED CONSTRUCTION

E. INTERIOR FINISHES (IBC TABLE 803.13) & (NFPA 30.3.3.2)

- CLASS C OR BETTER FINISHES WILL BE PROVIDED IN ALL ROOMS AND ENCLOSED SPACES

F. FIRE PROTECTION

1. AUTOMATIC FIRE SUPPRESSION - NFPA 13 (EXISTING TO REMAIN)
2. FIRE ALARM SYSTEM (EXISTING TO REMAIN)
   RI UNIFORM FIRE CODE 13.7 & 13.8 & NFPA 72 RI LIFE SAFETY CODE REQUIRES A FIRE ALARM SYSTEM.

G. OCCUPANCY LOADS

1. OCCUPANCY LOAD FACTORS

	IBC TABLE 1004.5	NFPA 101 TABLE 7.3.1.2
BUSINESS	150 SF / PERSON GROSS	150 SF / PERSON
EDUCATIONAL VOCATIONAL	50 SF / PERSON NET	50 SF / PERSON NET
ASSEMBLY UNCONCENTRATED	15 SF / PERSON NET	15 SF / PERSON NET
READING ROOM	50 SF/ PERSON NE	50 SF / PERSON
STACK AREA	100 SF / PERSON GROSS	100 SF / PERSON
STORAGE / MECHANICAL	300 SF / PERSON GROSS	500 SF / PERSON

2. OCCUPANCY LOAD PER FLOOR

	AREA (GROSS)	**OCCUPANCY**
FIRST FLOOR		
BUSINESS	862 SF	6 OCCUPANTS
ASSEMBLY	1015 SF	68 OCCUPANTS
EDUCATION	307 SF	7 OCCUPANTS
STORAGE / MECHANICAL	428 SF	4 OCCUPANTS
READING ROOM	3189 SF	64 OCCUPANTS
	5,801 SF	149 OCCUPANTS
SECOND FLOOR		
BUSINESS	817 SF	8 OCCUPANTS
STACK AREAS	3210 SF	33 OCCUPANTS
READING ROOM	2113 SF	43 OCCUPANTS
STORAGE / MECHANICAL	33 SF	1 OCCUPANTS
	6,173 SF	85 OCCUPANTS
MEZZANINE (THIRD FLOOR)		
READING ROOM	303 SF	9 OCCUPANTS
STORAGE / MECHANICAL	101 SF	1 OCCUPANTS
	404 SF	10 OCCUPANTS
THIRD FLOOR		
BUSINESS	772 SF	3 OCCUPANTS
STACK AREAS	2073 SF	21 OCCUPANTS
READING ROOM	384 SF	8 OCCUPANTS
STORAGE / MECHANICAL	31 SF	1 OCCUPANTS
EDUCATION / VOCATIONAL	632 SF	13 OCCUPANTS
ASSEMBLY	578 SF	15 OCCUPANTS
	4,470 SF	61 OCCUPANTS
BUILDING TOTALS:	**16,848 SF**	**305 OCCUPANTS**

H. EGRESS REQUIREMENTS

1. MAXIMUM TRAVEL DISTANCE - NFPA 101 TABLE 13.2.6.2 - IBC TABLE 1017.2

   ASSEMBLY (A3) - WITH SPRINKLER SYSTEM
   IBC 250 LF
   NFPA 101 250 LF
   ACTUAL 115.5 LF

2. COMMON PATH OF TRAVEL DISTANCE - (NFPA 101 TABLE A.7.6 - IBC SECTION 1006.2.1

   ASSEMBLY (A3) - WITH SPRINKLER SYSTEM
   IBC 75 LF
   NFPA 101 75 LF
   ACTUAL 23.6 LF

3. DEAD END CORRIDOR - NFPA 101 TABLE A.7.6 - IBC SECTION 1020.4

   ASSEMBLY (A3) - WITH SPRINKLER SYSTEM
   IBC 20 LF
   NFPA 101 20 LF
   ACTUAL 17 LF

4. MEANS OF EGRESS (IBC SECTION 1005 & 1022

   NUMBER AND WIDTH REQUIRED

   DOOR WIDTH (WITH SPRINKLER SYSTEM)
   IBC 0.2"/PER PERSON (32" MIN. CLEAR WIDTH)
   NFPA 101 0.2"/PER PERSON (32" MIN. CLEAR WIDTH)

   STAIR WIDTH (WITH SPRINKLER SYSTEM)
   IBC 0.3"/PER PERSON (48" MIN. CLEAR WIDTH FOR ACCESSIBLE)
   NFPA 101 0.3"/PER PERSON (44" MIN. CLEAR WIDTH BETWEEN GUARDS)

TOTAL EXITS REQUIRED: IBC TABLE 1006.3.2 - 2 EXITS PER FLOOR (PROVIDED)

REQUIRED EGRESS WIDTHS (MORE STRINGENT OF ABOVE)

DOORS:
(LL FLR.) TOTAL WIDTH REQUIRED FOR DOORS = 0.2 x OCCUPANT LOAD (133) = 26.6" OR 32" MIN,
(LL FLR.) **TOTAL CLEAR DOOR WIDTH PROVIDED = 60" + 32" + 32" = 124"**

(1ST FLR.) TOTAL WIDTH REQUIRED FOR DOORS = 0.2 x OCCUPANT LOAD (73) = 14.6" OR 32" MIN,
(1ST FLR.) **TOTAL CLEAR DOOR WIDTH PROVIDED = 32" + 32" + 60" + 60" = 184"**

(2ND FLR.) TOTAL WIDTH REQUIRED FOR DOORS = 0.2 x OCCUPANT LOAD (71) = 14.2" OR 32" MIN,
(2ND FLR.) **TOTAL CLEAR DOOR WIDTH PROVIDED = 32" + 32" = 64"**

STAIRS:
(1ST TO 2ND FLR) TOTAL WIDTH REQUIRED FOR STAIRS = 0.3 x OCCUPANT LOAD (133) = 39.9" OR 44" MIN,
(1ST TO 2ND FLR) TOTAL STAIR WIDTH PROVIDED = **42" + 42" = 84"**

(MEZZANINE TO 2ND FLR) TOTAL WIDTH REQUIRED FOR STAIRS = 0.3 x OCCUPANT (10) = 21" OR 36" MIN.
(MEZZANINE TO 2ND FLR) TOTAL STAIR WIDTH PROVIDED = **36" + 36" = 72"**

I. SEISMIC CRITERIA

NA - NO CHANGE TO EXISTING BUILDING ENVELOPE

J. STRUCTURAL LOADS

NA - NO CHANGE TO EXISTING BUILDING ENVELOPE

K. ENERGY CONSERVATION (IECC)

NA - NO CHANGE TO EXISTING BUILDING ENVELOPE

L. PLUMBING FIXTURE ANALYSIS (BASED ON IBC chapter 29; Table 2902.1; IPC TABLE 403.1)

BUSINESS - BASED ON 280 OCCUPANTS. 153 MALES AND 153 FEMALES.

	PLUMBING FIXTURES	CODE REQUIREMENT			PROVIDED			
		MALE	FEMALE	TOTAL	MALE	FEMALE	UNISEX	TOTAL
FLOORS 1-3	WATER CLOSETS (& URINALS)	1 PER 125 - 2 REQUIRED	1 PER 65 - 3 REQUIRED	5	4	4	2	10
	LAVATORIES	1 PER 200 - 1 REQUIRED	1 PER 200 - 1 REQUIRED	2	4	4	2	10
	DRINKING FOUNTAINS	1 PER 500		1				3
	SERVICE SINK	1 REQUIRED		1				1

KEY

OCCUPANT LOAD INDICATOR

#,### / ## = ###

- AREA OF BUSINESS USE
- TOTAL OCCUPANTS
- LOAD FACTOR FROM TABLE 1008.1.2

EGRESS ELEMENT LOAD INDICATOR

57 / 213

- ACTUAL OCCUPANT LOAD PASSING THROUGH DOOR/STAIR
- ALLOWABLE OCCUPANT LOAD OF DOOR/STAIR

TRAVEL DISTANCE TO EXIT
COMMON PATH OF TRAVEL
EXISTING SMOKE WALL
EXISTING 1HR WALL
EXISTING 2HR WALL (ASSUMED)

LEGEND

EXIT SIGNAGE
EXIT — EGRESS EXIT
FACP — FIRE ALARM CONTROL PANEL
ANN. — ANNUNCIATOR PANEL
F — FIRE EXTINGUISHER
K — KNOX BOX

OCCUPANCY DESIGNATIONS LEGEND

LIBRARY - READING ROOMS
LIBRARY - STACK AREA
ASSEMBLY - UNCONCENTRATED
BUSINESS
EDUCATIONAL - CLASSROOM
EDUCATIONAL - VOCATIONAL
STORAGE / MECHANICAL

FIRE EXTINGUISHER LEGEND (NFPA 10)

FEC EXIST.	EXISITNG FIRE EXTINGUISHER CABINET TO REMAIN.
FEC-1	EXISTING RECESSED FIRE EXTINGUISHER CABINET RELOCATED. PROVIDE NEW TO MATCH EXISTING IF UNABLE TO REUSE EXISTING.

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TOWN OF BRISTOL, R.I.

ROGERS FREE LIBRARY INTERIOR MODIFICATIONS

ROGERS FREE LIBRARY

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525 HOPE STREET
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Drawing Status
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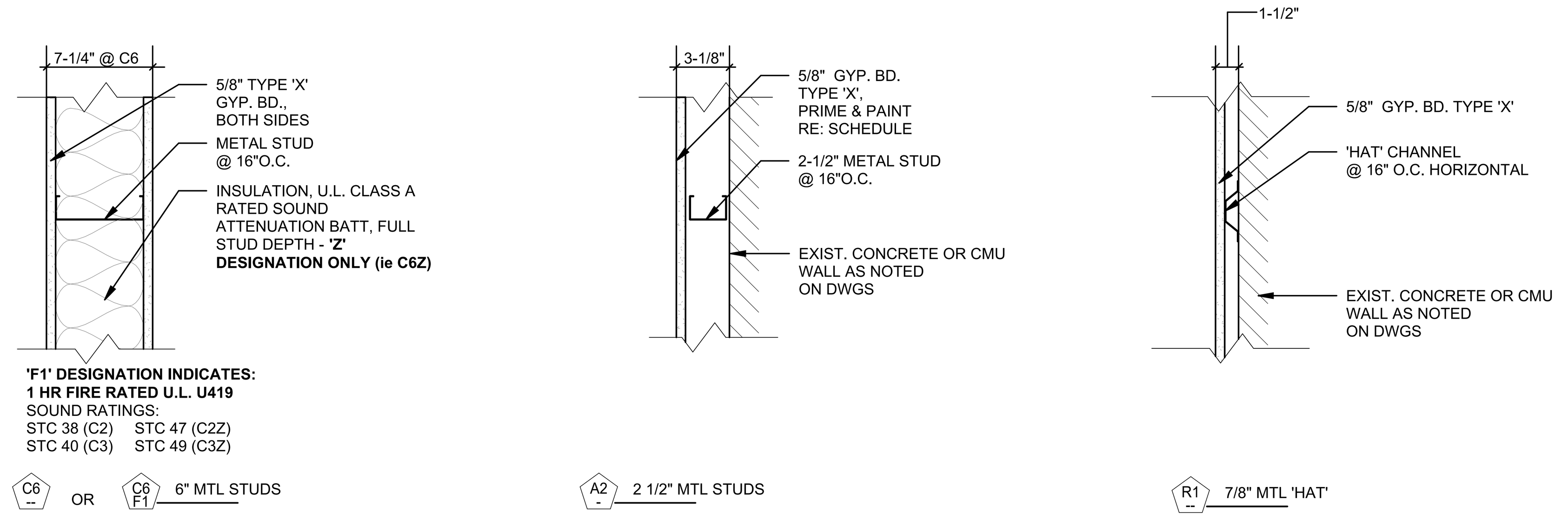
Sheet Contents
CODE REVIEW

Project Number. 6846

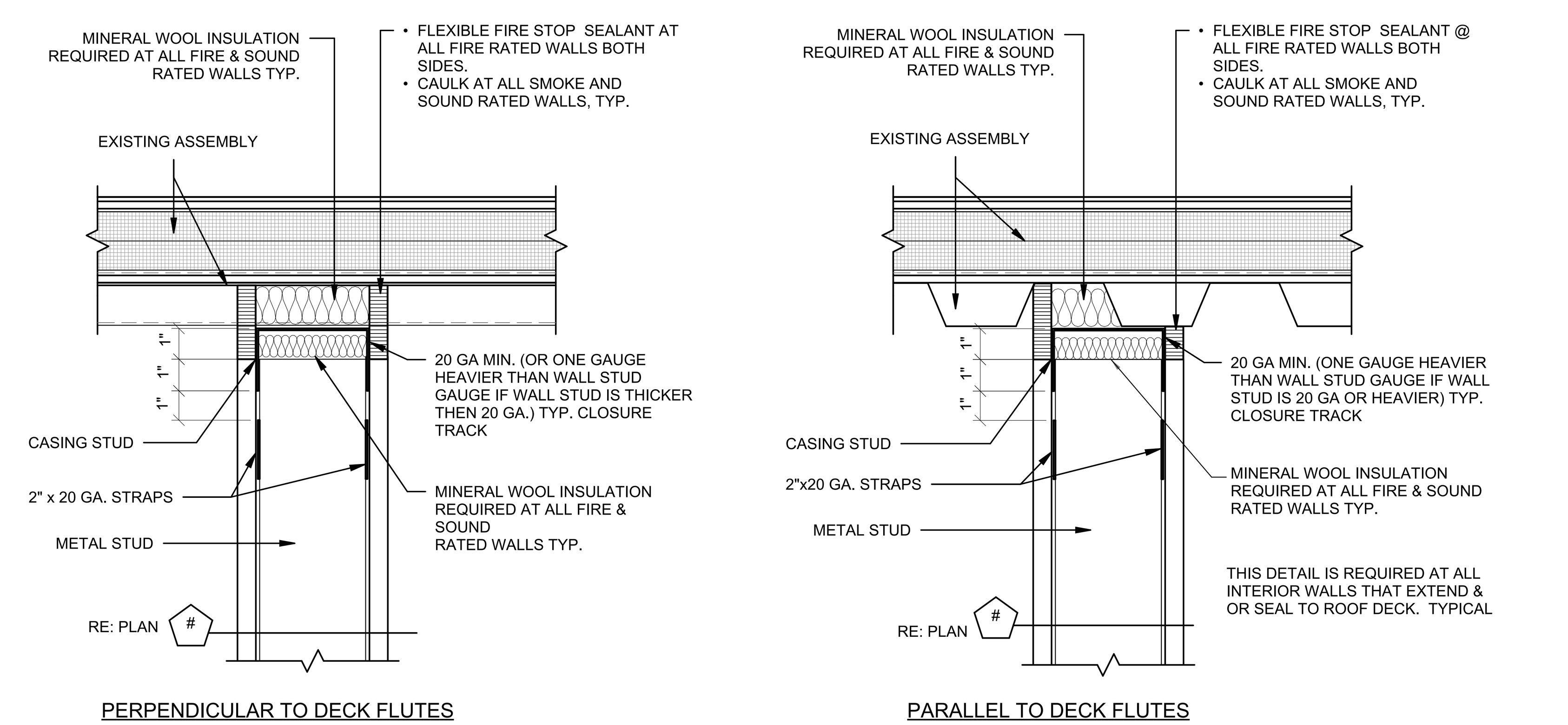
Drawing No. A010

Sheet of



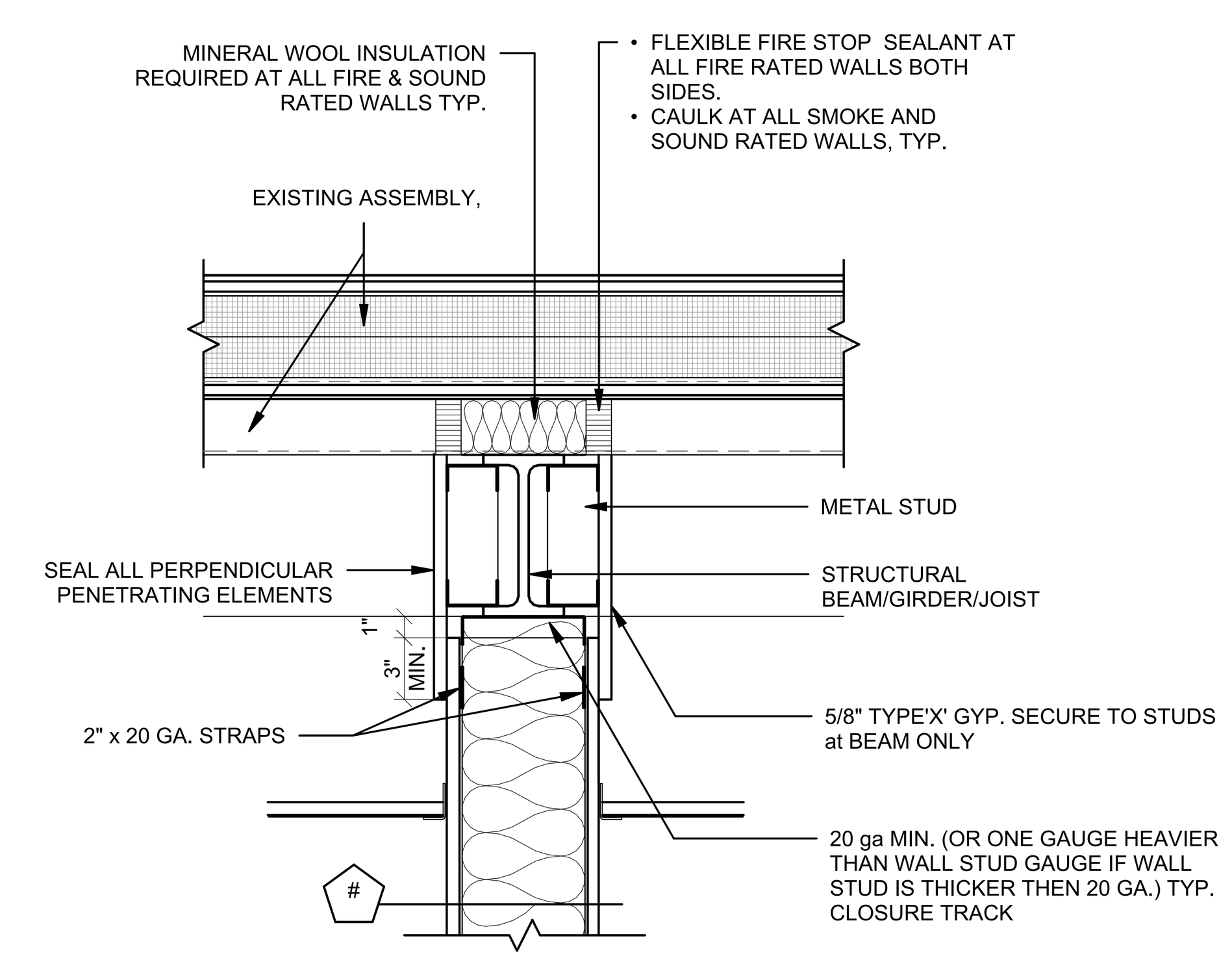
1 INTERIOR WALL CONSTRUCTION TYPES

A030 Scale: 1 1/2" = 1'-0"



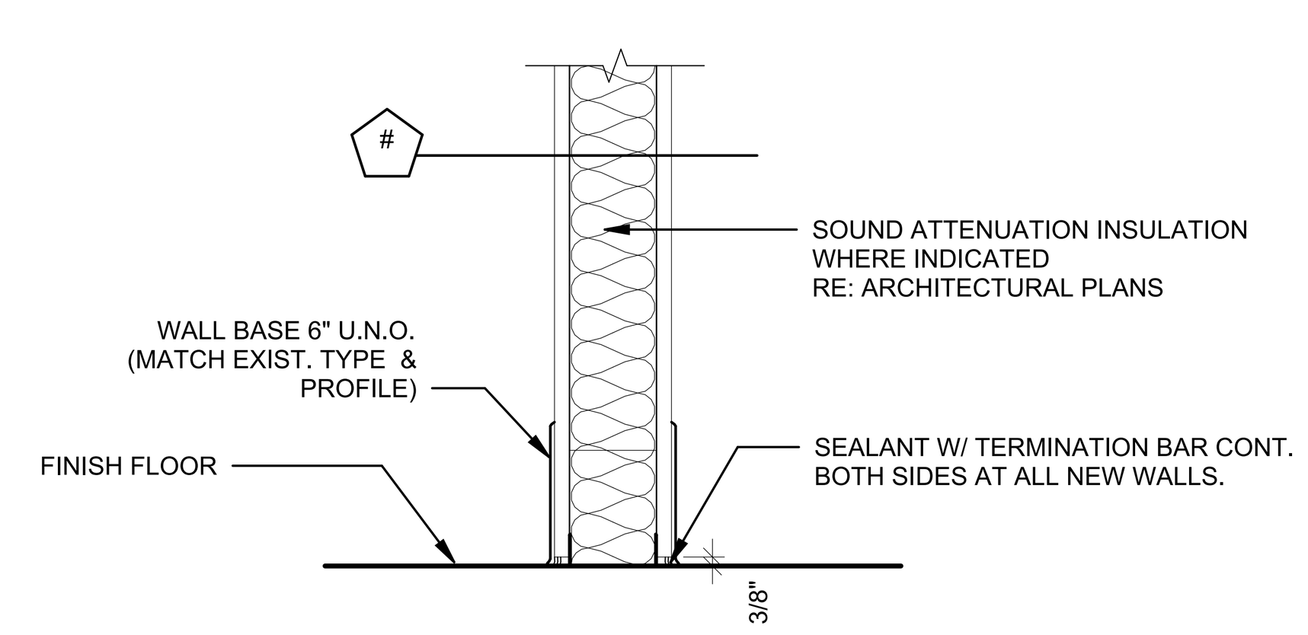
2 TYP. TOP OF STUD WALL

A030 Scale: 1 1/2" = 1'-0" (SECTION DETAIL)



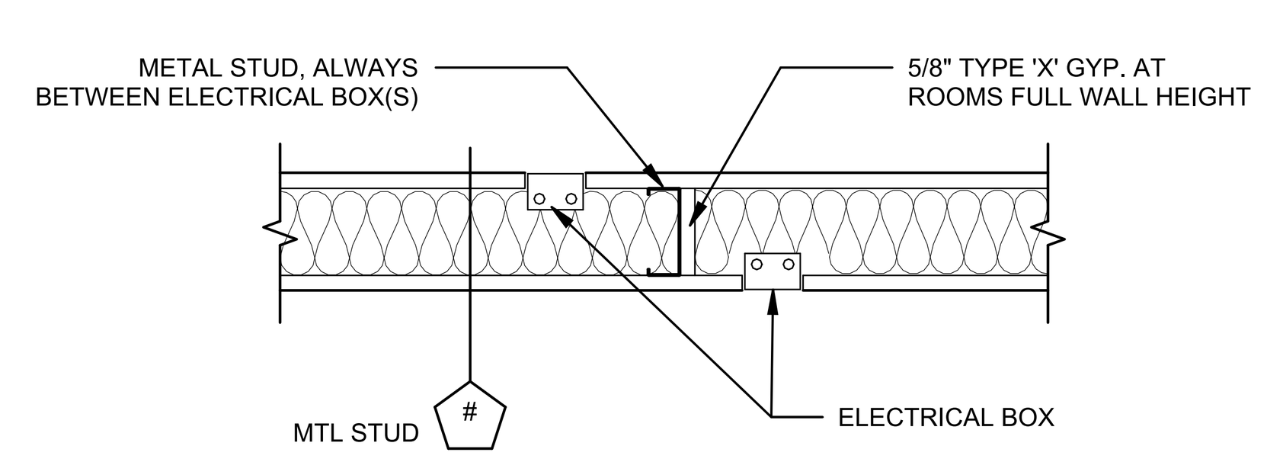
3 TOP OF WALL AT ROOF

A030 Scale: 1 1/2" = 1'-0" (SECTION DETAIL)



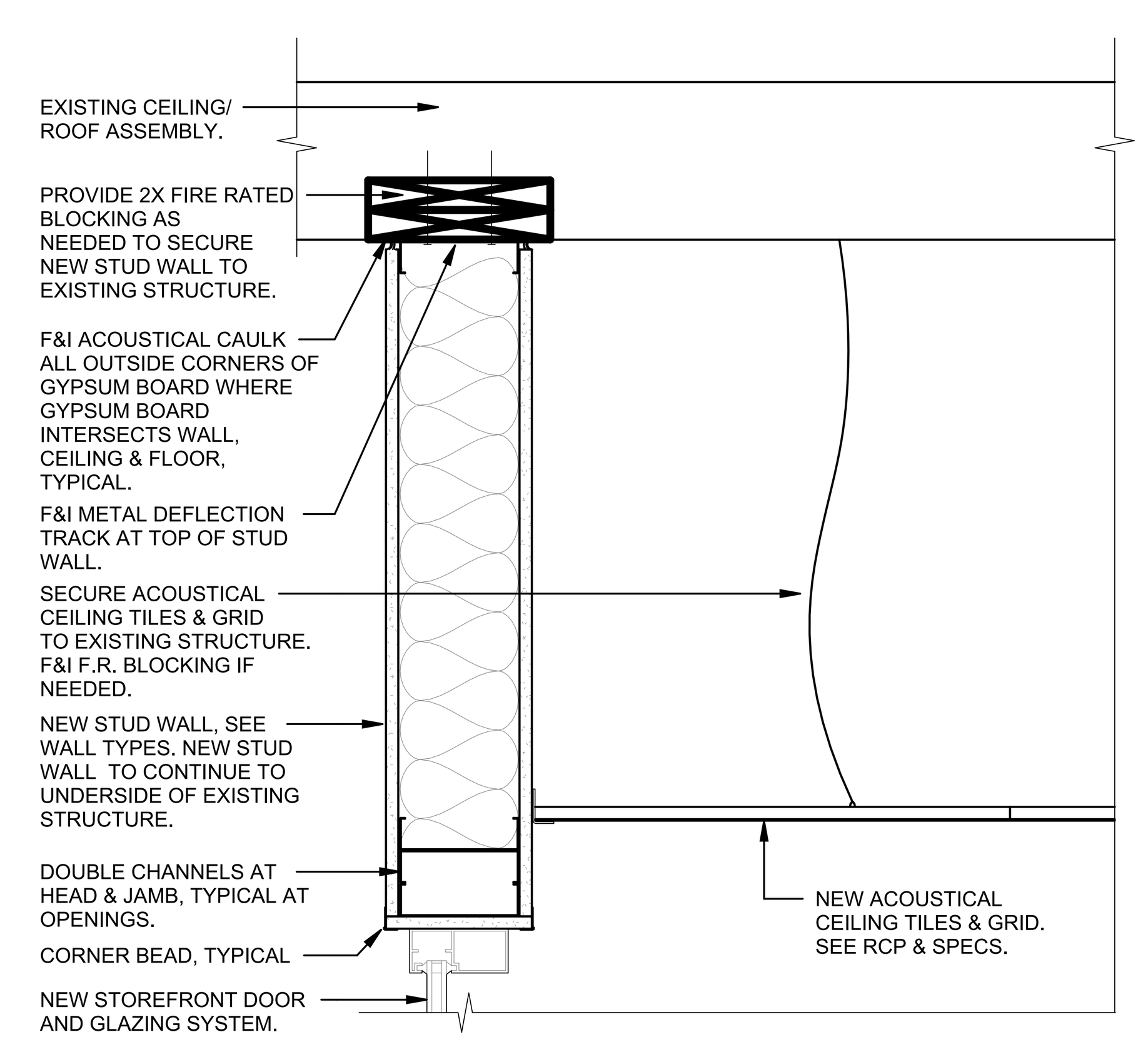
4 TYP. BOTTOM OF STUD WALL

A030 Scale: 1 1/2" = 1'-0" (SECTION DETAIL)



5 TYP. STUD ELECTRICAL BOX

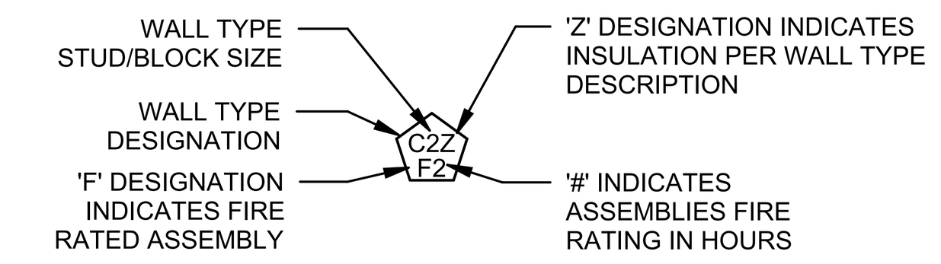
A030 Scale: 1 1/2" = 1'-0" (PLAN DETAIL)



6 SOFFIT DETAIL

A030 Scale: 1 1/2" = 1'-0"

INTERIOR WALL DESIGNATIONS:



"M" INDICATES MASONRY WALL
"CL" INDICATES PROTECTED COLUMN ASSEMBLY - SEE COLUMN FIREPROOFING NOTES THIS SHEET

EXAMPLE - WALL "A2"
"A" - WALL TYPE
"2" - STUD THICKNESS

EXAMPLE - WALL TYPE "M4"
"M" - MASONRY WALL
"4" - CMU THICKNESS

METAL STUDS	WOOD STUDS	MASONRY WALLS
1 = 1 5/8" STUDS	3 = 2 X 3 STUDS	2 = 1 5/8" SOAP
2 = 2 1/2" STUDS	4 = 2 X 4 STUDS	4 = 4" BLOCK
3 = 3 5/8" STUDS	6 = 2 X 6 STUDS	6 = 6" BLOCK
4 = 4" STUDS		8 = 8" BLOCK
6 = 6" STUDS		10 = 10" BLOCK
		12 = 12" BLOCK

GENERAL NOTES:

1. ALL GYPSUM SHEATHING/WALL BOARD IS TYPE 'X'.
2. PROVIDE METAL STUD GAUGE AS RECOMMENDED BY STUD MFG. FOR WALL LIVE LOAD OF 5 psf FOR HEIGHT OF THE UNBRACED WALL VERTICAL SPAN. MAXIMUM DEFLECTION 1/360 OF THE SPAN.
3. FOR NON-LOAD BEARING WALLS THAT SEAL TO ROOF STRUCTURE ABOVE, PROVIDE SUITABLE STUD TRACK TO ALLOW FOR MINIMUM ROOF DEFLECTION OF 1" WITHOUT TRANSFERING LOAD TO METAL STUDS RE: STRUCTURAL DWGS FOR MORE STRINGENT DEFLECTION INFORMATION. (NOT REQUIRED @ PERIMETER INTERIOR WALLS UNLESS NOTED OTHERWISE)
4. HOLD BOTTOM OF GWB AT 1/4" ABOVE CONCRETE FLOOR TYPICAL (TO PREVENT MOISTURE WICKING)
5. PROVIDE TYPE 'X' MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL TOILET ROOMS, SPRINKLER ROOMS, JANITOR CLOSETS, LOCKER ROOMS, AND WET LOCATIONS, UNLESS NOTED OTHERWISE.
6. PROVIDE 20 GA METAL STUDS MIN. AT CEMENT BOARD WALLS.
7. PROVIDE FIRE RATED CAULKING AT TOP OF ALL FIRE RATED WALLS THAT SEAL TO UNDERSIDE OF STRUCTURE. (i.e. BETWEEN METAL DECK FLUTES.)
8. STC RATINGS FOR WALL CONSTRUCTION TYPES ARE BASED ON USG CORPORATION SELECTOR GUIDE TO SOUND-RATED PARTITIONS (SA100).
10. ALL WALL SYSTEM 'R' & 'U' VALUES ARE BASED ON"
-6" METAL STUD
-8" NORMAL WEIGHT CMU
-8" NORMAL WIEGHT CONCRETE
11. ALL VAPOR BARRIERS ARE TO BE 10MIL POLY MIN. U.N.O.

NOTE:
THIS IS A STANDARD SHEET. SOME ITEMS MAY NOT APPLY TO THIS PROJECT. FOR ADDITIONAL INFORMATION RE.: SPECIFICATIONS

Certification

Drawn by Author
Checked by AB
Revised on

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ROGERS FREE LIBRARY INTERIOR MODIFICATIONS

ROGERS FREE LIBRARY

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Sheet Contents
WALL CONSTRUCTION TYPES, TYPICAL WALL INTERSECTION & TERMINATION DETAILS

Project Number. 6846

Drawing No.
A030

Sheet of

PLAN DEMOLITION WORK NOTES

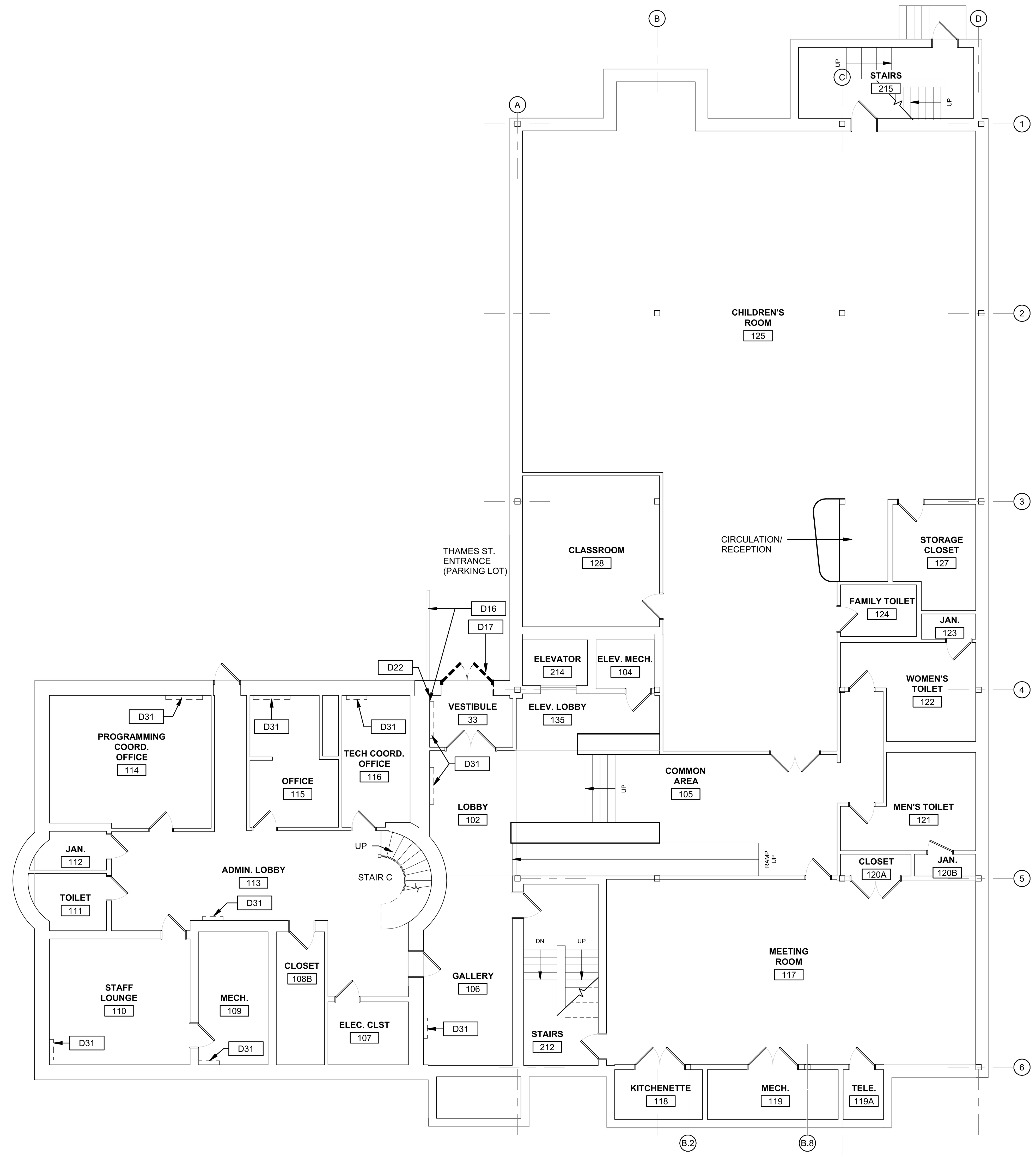
D16	R&D EXISTING AUTOMATIC DOOR CONTROL SYSTEM, WIRING, AND PADDLE OPERATOR IN IT'S ENTIRETY. PREP FOR NEW AUTOMATIC DOOR CONTROL AND PADDLE OPERATOR.
D17	R&D EXISTING HINGES, GASKET, THRESHOLD/SWEEP AND ASTRAGAL. EXISTING STOREFRONT, FRAME & SIDELIGHTS TO REMAIN. COORDINATE WITH PLANS, DOOR HARDWARE SCHEDULE & DOOR HARDWARE SPECS.
D22	R&D AREA OF DAMAGED GYPSUM WALL BOARD.
D31	R&D EXISTING CABINET UNIT WALL HEATERS, SEE MEP DWGS.

DEMOLITION LEGEND

———	EXISTING WALL/ITEM TO REMAIN
- - - - -	EXISTING WALL/ITEM TO BE REMOVED
R&D =	REMOVE & DISPOSE OF
R&S =	REMOVE AND SALVAGE
#	WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
← #	WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
(hatched)	ROOF MEMBRANE DEMOLITION LIMITS

GENERAL SITE DEMOLITION NOTES:

1. THE EXISTING LIBRARY EXTERIOR GARDEN IS UNDERGOING RENOVATION. PRIMARY WORK IS TO IMPROVE THE MASONRY WALKWAYS AND PROVIDING BETTER DRAINAGE. AT AREAS INDICATED REMOVAL AND RESETTING OF SETTLED BRICKS WILL BE REQUIRED TO ELIMINATE GROSS WATER PONDING DURING HEAVY RAINFALL EVENTS.
2. THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM DRAWINGS FIELD REVIEW; FIELD MEASUREMENT DOCUMENTATION &/or OBSERVATION . NOT ALL EXISTING CONDITIONS MAY BE INDICATED.
3. GC TO VERIFY ALL EXISTING, CONDITIONS, CONNECTIONS, LOCATIONS, SIZES, ETC. IN THE FIELD AND TO COORDINATE EXTENTS OF ALL DEMOLITION WORK WITH ALL NEW WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
4. GC TO PROPERLY DE-ENERGIZE, SHUT OFF & CAP ALL EXISTING UTILITIES (ELECTRICAL, GAS, WATER, ETC.) IF UNCOVERED BELOW GRADE. U.N.O. GC COORDINATE W\ ARCH, CIVIL & MEP DEMOLITION DWGS.
5. GC TO PROVIDE ALL OSHA and/or BUILDING CODE REQUIRED SAFETY PROTECTION TO PROTECT WORKERS FROM FALLS, CRUSHING, ELECTROCUTION &/or IMPACT FROM ABOVE, ETC.
6. GC TO MAINTAIN BUILDING SITE IN A SAFE AND SECURE MANNER SO AS TO ELIMINATE THE APPEARANCE OF AN ATTRACTIVE NUISANCE. A PHYSICAL BARRIER TO PREVENT BUILDING & SITE ACCESS BY CHILDREN AT A MINIMUM IS REQUIRED.
7. GC AND SUB CONTRACTORS TO PROTECT ALL EXISTING WORK TO REMAIN DURING DEMOLITION WORK.
8. CONTRACTOR TO FURNISH AND INSTALL ALL SHORING &/or BRACING TO SUPPORT EXISTING WALLS, FLOORS, ROOFS, ETC. PRIOR TO REMOVAL OF EXISTING CONSTRUCTION OR COMPONENTS.
9. EXISTING BUILDING CONSTRUCTION DEFICIENCIES NOT INDICATED ON THE DRAWINGS, BUT UNCOVERED &/or DISCOVERED BY CONSTRUCTION ACTIVITY SHALL BE REPORTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION OF NEW WORK. ADDITIONAL INFORMATION OR DETAILS WILL BE FURNISHED AS NECESSARY.



PLAN NORTH

1 D100 EXISTING FIRST FLOOR PLAN

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

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Checked by Checker

Revised on

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Sheet Contents
DEMOLITION PLANS

Project Number. 6846

Drawing No. D100

Sheet of

DEMOLITION LEGEND

- EXISTING WALL/ITEM TO REMAIN
- EXISTING WALL/ITEM TO BE REMOVED
- R&D = REMOVE & DISPOSE OF
- R&S = REMOVE AND SALVAGE
- # WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- # WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- ROOF MEMBRANE DEMOLITION LIMITS

PLAN DEMOLITION WORK NOTES

D1 AREA OF DEMO FOR NEW MAKERSPACE OR QUIET STUDY AREA. COORDINATE DEMO WORK WITH NEW WORK PLANS AND MEP DEMO AND WORK PLANS.

D2 R&D EXISTING FLOORING, FLOORING ADHESIVES, ADHESIVE RESIDUE, DOWN TO SLAB/SUBSTRATE. FLASH PATCH/PREP FLOOR FOR NEW FLOORING INSTALLATION. COORDINATE REQUIREMENTS w/ FLOORING MFR REQUIREMENTS. REMOVE WALL BASE, TYP.

D3 CLOUDED AREA INDICATES THE APPROXIMATE AREA OF NEW PLUMBING FIXTURE. SAWCUT, R&D PORTION OF EXISTING CONC. FLOOR ASSEMBLY AND WALL TO BRING WATER/WASTE LINES TO NEW PLUMBING FIXTURES. GC TO VERIFY EXTENT OF REQUIRED FLOOR SLAB DEMO. RE: PLUMBING.

D4 R&D EXISTING INTERIOR BUILT-IN SHELVING IN THEIR ENTIRETY. INCLUDING THE WALL FINISH AND SOFFIT ABOVE. REPLACE EXISTING DRYWALL IF DAMAGED BEYOND REPAIR. PATCH & REPAIR ANY ADJACENT REMAINING EXISTING CONSTRUCTION.

D5 R&D PORTIONS OF EXISTING WALLS AS NEEDED TO PROVIDE POWER, DATA AND BLOCKING. COORDINATE WITH WORK AND ELEC. PLANS.

D6 R&D PORTION OF EXTERIOR WALL ASSEMBLE TO ALLOW INSTALLATION OF MECHANICAL DUCT AND VENT TO EXTERIOR WALL FOR NEW ENERGY RECOVERY VENTILATOR. SEE MECHANICAL DRAWINGS.

D7 REMOVE & RELOCATE ANY WALL-HUNG DEVICES THAT MAY INTERFERE WITH NEW CONSTRUCTION. PATCH AND REPAIR ANY ADJACENT CONSTRUCTION TO REMAIN, TYP.

D9 R&D PORTION OF EXISTING FLOOR CONSTRUCTION TO PROVIDE NEW FLOOR RECEPTACLES. COORDINATE WITH NEW WORK PLANS.

D10 G.C. TO REMOVE/ DISASSEMBLE, SALVAGE & STORE EXISTING BOOKSHELVES. G.C. TO REINSTALL EXISTING BOOKSHELVES AFTER CONSTRUCTION. OWNER WILL REMOVE BOOKS BEFORE DEMOLITION. GC TO PROVIDE ROLLING CARTS FOR OWNER'S USE IN MOVING OF BOOKS.

D11 R&D EXISTING WALLS/WALL BASE/DOOR IN IT'S ENTIRETY. REMOVE & RELOCATE ANY RECEPTICLES OR ANY WALLHUNG DEVICES.

D12 R&D EXISTING STAIR TREAD FINISH MATERIAL, FLOORING ADHESIVES, ADHESIVE RESIDUE, DOWN TO SUBSTRATE. FLASH PATCH/PREP FOR NEW TREAD MATERIAL.

D18 R&D PORTION OF EXISTING GYPSUM BOARD TO ALLOW INSTALLATION OF NEW MOISTURE RESISTANT GYPSUM BOARD AT LOCATION OF NEW SINK. INSTALL IN-WALL BLOCKING AS NEEDED RE: PLUMBING DWGS.

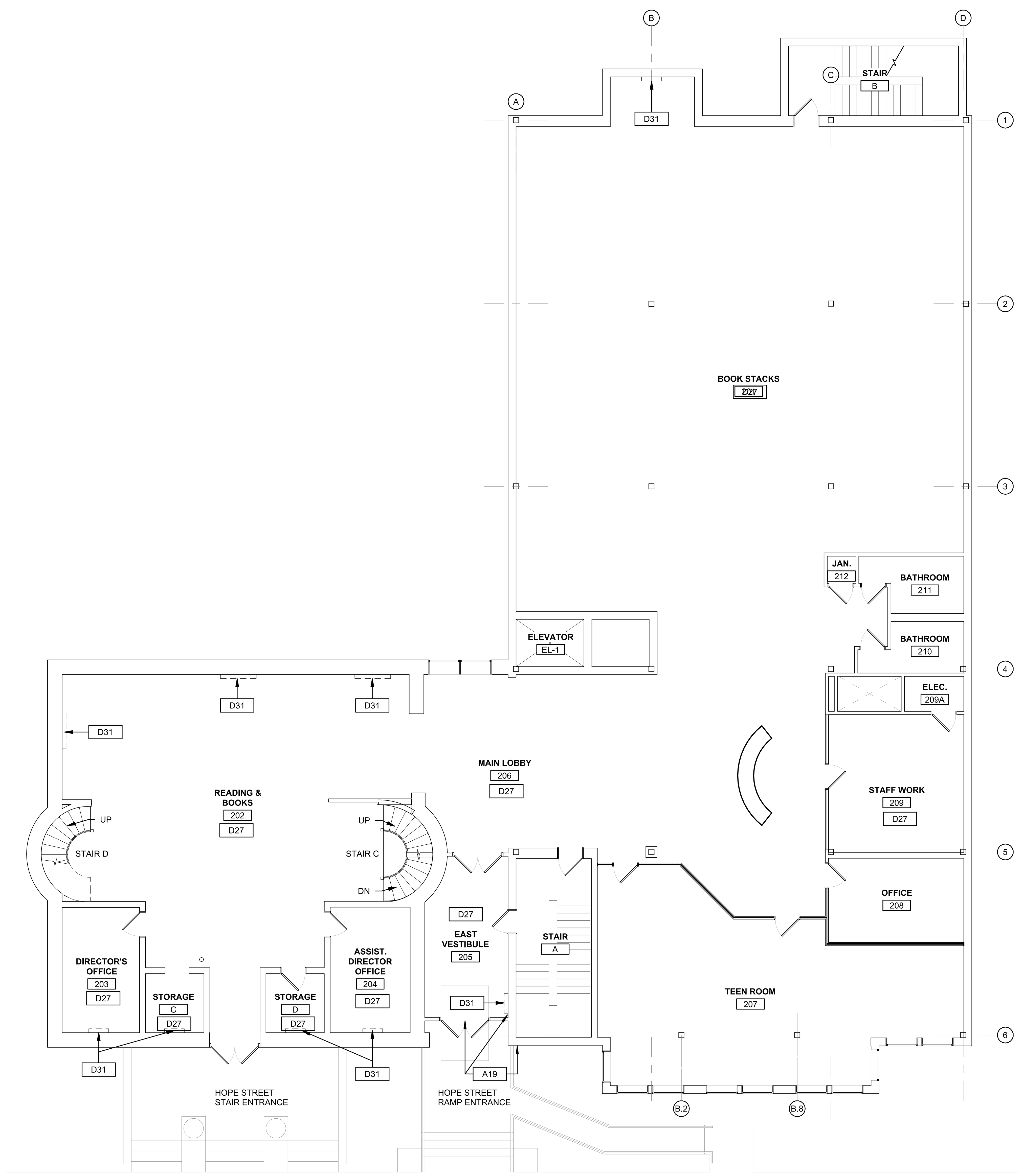
D24 G.C. TO VERIFY IF GUARDRAIL IS CONTAINED WITHIN EXISTING WALL. DEMOLISH WALL IF GUARDRAIL IS PRESENT, OTHERWISE, LEAVE EXISTING WALL. REPORT FINDINGS TO ARCHITECT.

D27 R&D EXISTING CARPET AND CARPET PAD AT SECOND AND THIRD FLOOR ROOMS. PREP FLOOR FOR NEW FLOOR FINISH. EXISTING WOOD BASE TO REMAIN. DEMOLITION WORK NOTES

D31 R&D EXISTING CABINET UNIT WALL HEATERS, SEE MEP DWGS.

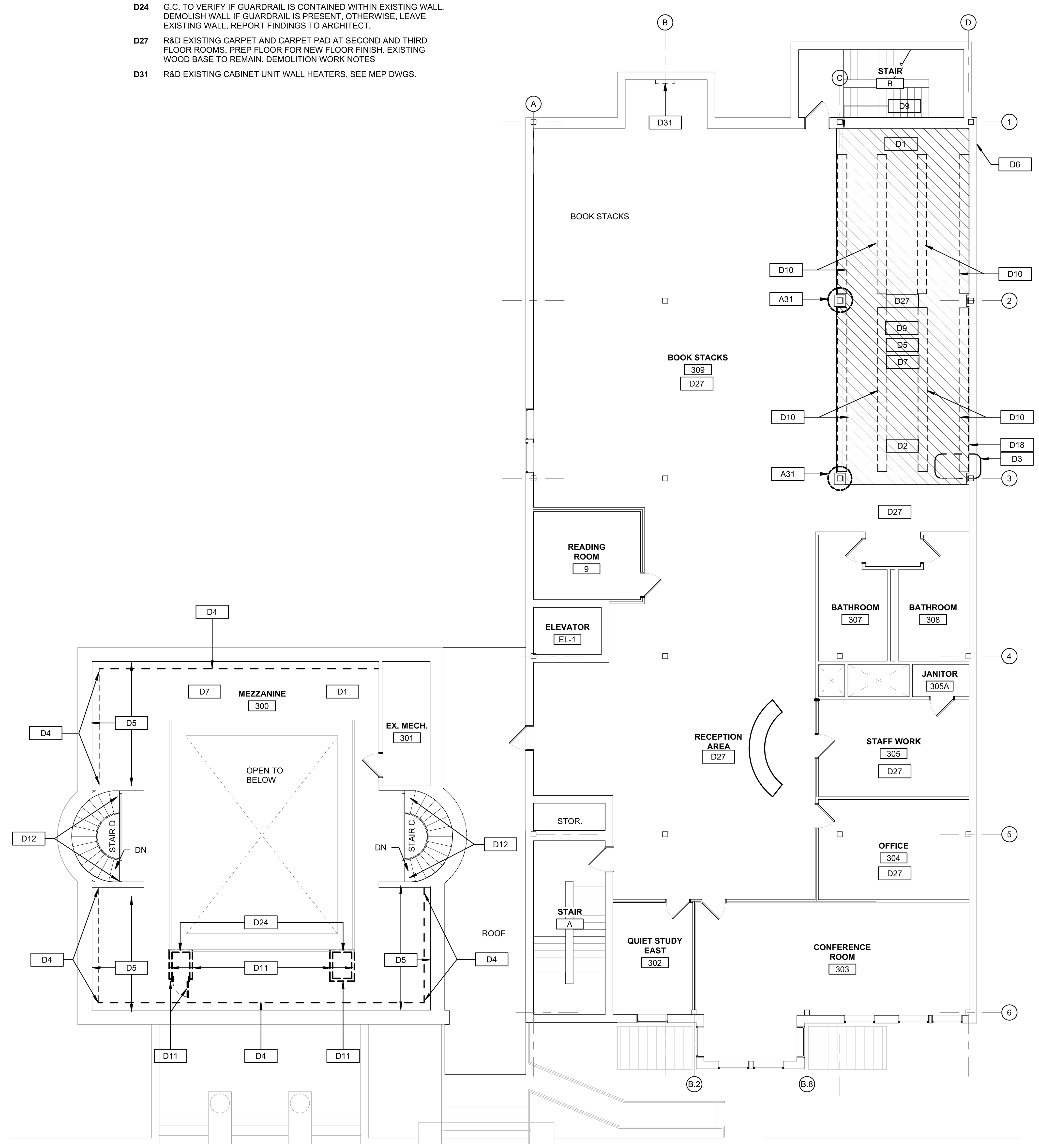
GENERAL SITE DEMOLITION NOTES:

1. THE EXISTING LIBRARY EXTERIOR GARDEN IS UNDERGOING RENOVATION. PRIMARY WORK IS TO IMPROVE THE MASONRY WALKWAYS AND PROVIDING BETTER DRAINAGE. AT AREAS INDICATED REMOVAL AND RESETTING OF SETTLED BRICKS WILL BE REQUIRED TO ELIMINATE GROSS WATER PONDING DURING HEAVY RAINFALL EVENTS.
2. THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM DRAWINGS FIELD REVIEW; FIELD MEASUREMENT DOCUMENTATION &/or OBSERVATION . NOT ALL EXISTING CONDITIONS MAY BE INDICATED.
3. GC TO VERIFY ALL EXISTING, CONDITIONS, CONNECTIONS, LOCATIONS, SIZES, ETC. IN THE FIELD AND TO COORDINATE EXTENTS OF ALL DEMOLITION WORK WITH ALL NEW WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
4. GC TO PROPERLY DE-ENERGIZE, SHUT OFF & CAP ALL EXISTING UTILITIES (ELECTRICAL, GAS, WATER, ETC.) IF UNCOVERED BELOW GRADE. U.N.O. GC COORDINATE W\ ARCH, CIVIL & MEP DEMOLITION DWGS.
5. GC TO PROVIDE ALL OSHA and/or BUILDING CODE REQUIRED SAFETY PROTECTION TO PROTECT WORKERS FROM FALLS, CRUSHING, ELECTROCUTION &/or IMPACT FROM ABOVE, ETC.
6. GC TO MAINTAIN BUILDING SITE IN A SAFE AND SECURE MANNER SO AS TO ELIMINATE THE APPEARANCE OF AN ATTRACTIVE NUISANCE. A PHYSICAL BARRIER TO PREVENT BUILDING & SITE ACCESS BY CHILDREN AT A MINIMUM IS REQUIRED.
7. GC AND SUB CONTRACTORS TO PROTECT ALL EXISTING WORK TO REMAIN DURING DEMOLITION WORK.
8. CONTRACTOR TO FURNISH AND INSTALL ALL SHORING &/or BRACING TO SUPPORT EXISTING WALLS, FLOORS, ROOFS, ETC. PRIOR TO REMOVAL OF EXISTING CONSTRUCTION OR COMPONENTS.
9. EXISTING BUILDING CONSTRUCTION DEFICIENCIES NOT INDICATED ON THE DRAWINGS, BUT UNCOVERED &/or DISCOVERED BY CONSTRUCTION ACTIVITY SHALL BE REPORTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION OF NEW WORK. ADDITIONAL INFORMATION OR DETAILS WILL BE FURNISHED AS NECESSARY.



PLAN NORTH

2 D101 EXISTING SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



PLAN NORTH

1 D101 EXISTING THIRD FLOOR PLAN
Scale: 1/8" = 1'-0"

Certification

DAVID L. DeQUATTRO No. 2152 REGISTERED ARCHITECT 4/18/25

Drawn by Author
Checked by Checker
Revised on

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Project

TOWN OF BRISTOL, R.I.

ROGERS FREE LIBRARY INTERIOR MODIFICATIONS

ROGERS FREE LIBRARY

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Sheet Contents
DEMOLITION PLANS

Project Number. 6846

Drawing No. D101

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PLAN DEMOLITION WORK NOTES

D13 R&D EXISTING CEILING HUNG MECHANICAL AIR UNIT AND ALL ASSOCIATED DUCTS IN THEIR ENTIRETY. COORDINATE ANY SAW CUT ENLARGEMENT OF ROOF PENETRATIONS w/ MEP DWGS.

D14 R&D EXISTING SUSPENDED CEILING GRID IN ITS' ENTIRETY, INCLUDING ANY ELECTRICAL DEVICES/LIGHT FIXTURES & MECHANICAL FIXTURES AND ACCESSORIES SCHEDULED TO BE REMOVED (SEE MEP DRAWINGS), TYPICAL IN AREAS OF NEW CONSTRUCTION. SALVAGE EXISTING ACOUSTICAL CEILING TILES AND RETURN TO OWNER.

D15 SEE FIRE PROTECTION DRAWINGS FOR NEW, EXISITNG AND RELOCATED SPRINKLER HEADS. COORDINATE WITH NEW RCP PLANS AND FP DWGS.

D23 EXISTING CEILING, LIGHT FIXTURE, CEILING REGISTER, CEILING DEVICE, AND SPRINKLER HEAD TO REMAIN. COORDINATE WITH MEP DWGS.

D25 R&D WET AND/OR STAINED ACOUSTICAL CEILING TILES (SECOND FLOOR READING AND BOOKSTACK AREA, FIRST & SECOND FLOOR BATHROOMS - APPROXIMATELY 120 TILES-G.C. TO VERIFY FINAL COUNT IN FIELD).

D28 R&D ROOFTOP UNITS 2-5 RE: SPECIFICATIONS AND MECHANICAL DRAWINGS. COORDINATE ANY NEW ROOF PENETRATIONS THRU EXISTING ROOF ASSEMBLY WITH MECHANICAL DRAWINGS.

D29 R&D EXISTING ROOFING MATERIAL, WET INSULATION & ANY WET/DAMAGED COVERBOARD AT FLAT ROOF AREA (AND ANY SLOPED AREAS AT MANSARD ROOF NEEDED TO BE REMOVED TO ALLOW TIE IN OF NEW ROOF MATERIAL TO EXISTING). PREP FOR NEW ROOFING MATERIAL. SEE NEW WORK PLANS. DEMO WORK NOTES.

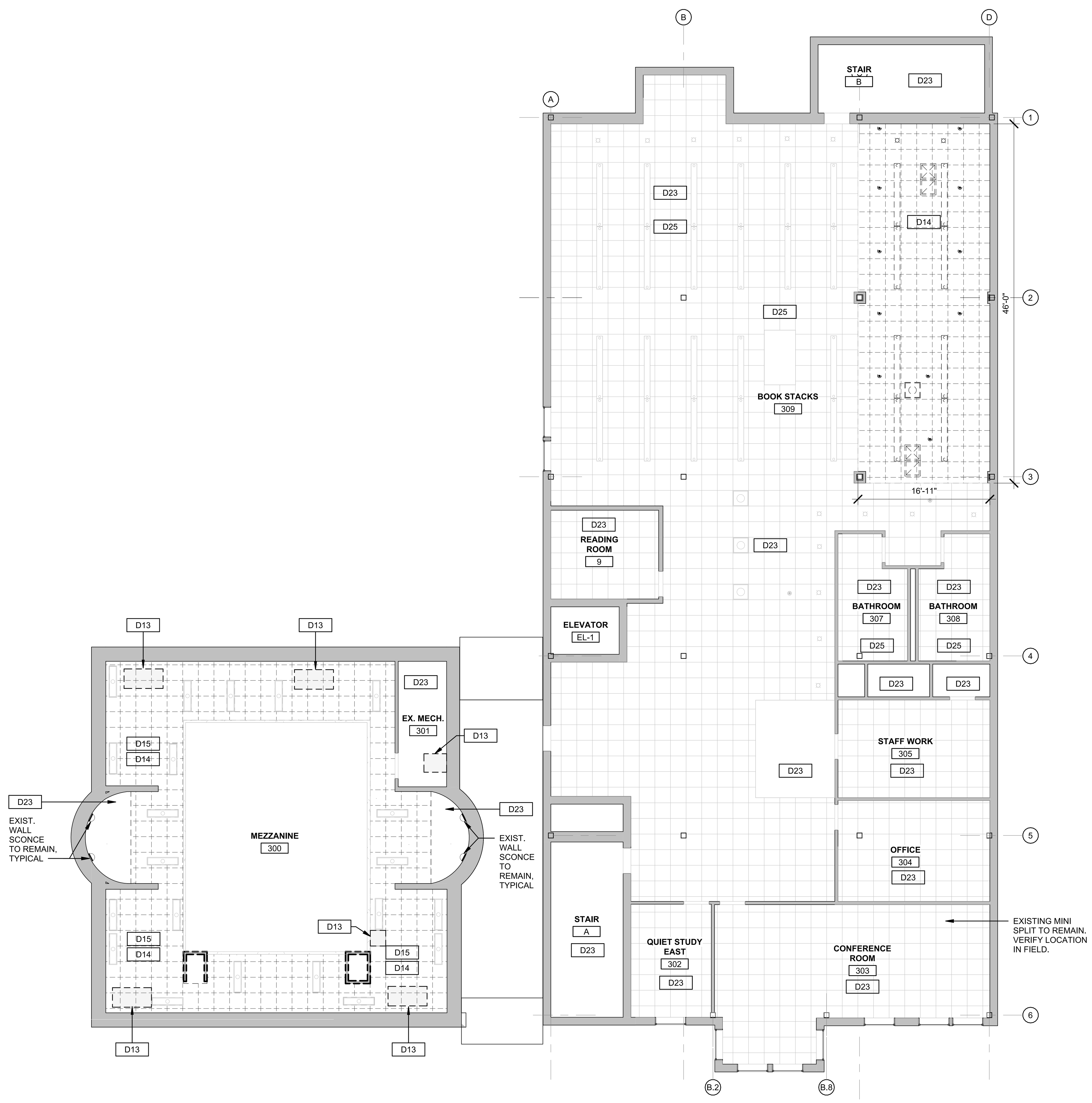
D30 OPEN. DEMOLITION WORK NOTES

DEMOLITION LEGEND

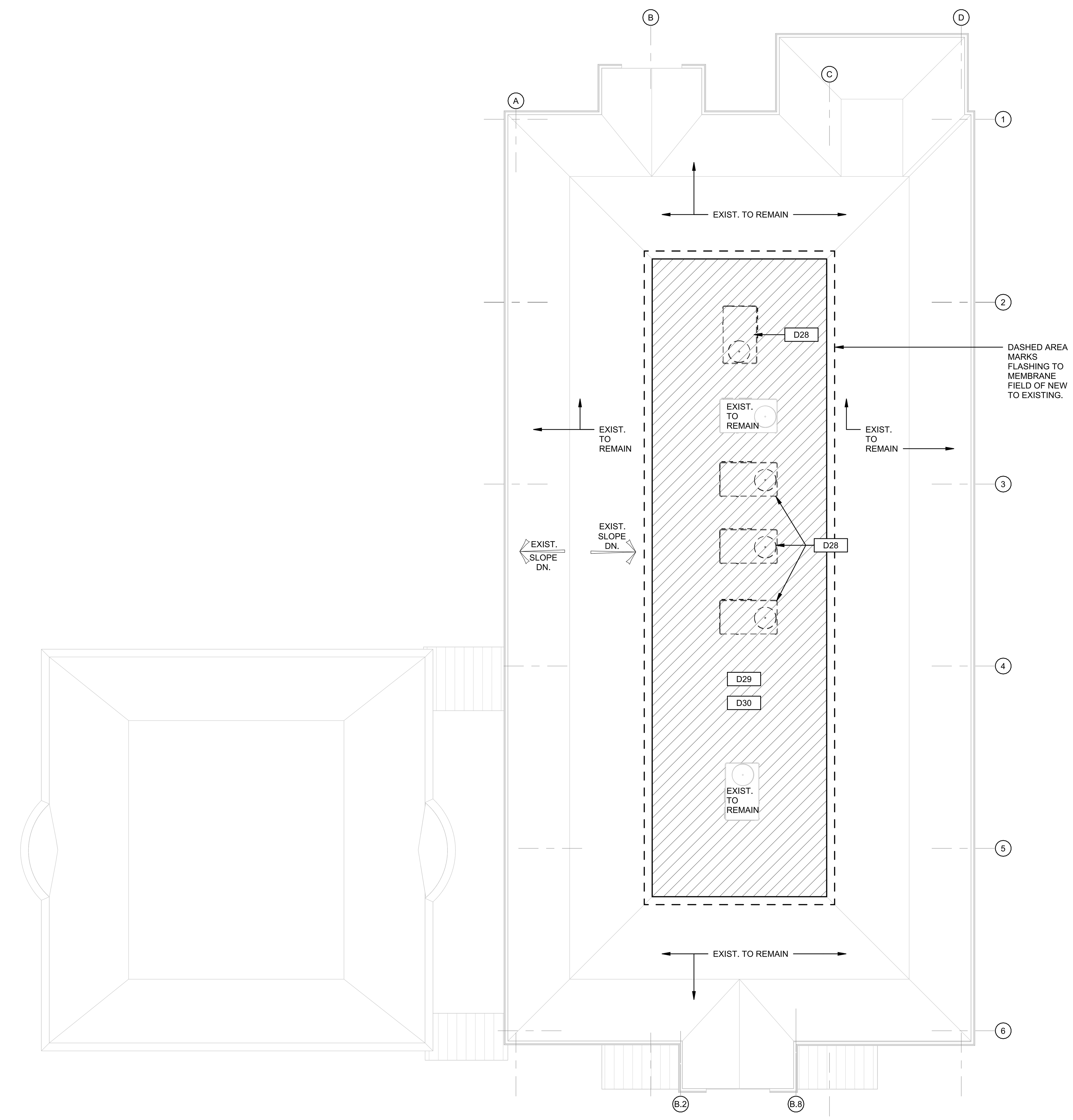
(solid lines)	EXISTING WALL/ITEM TO REMAIN
(dashed lines)	EXISTING WALL/ITEM TO BE REMOVED
R&D =	REMOVE & DISPOSE OF
R&S =	REMOVE AND SALVAGE
#	WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
← #	WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
(hatched area)	ROOF MEMBRANE DEMOLITION LIMITS

GENERAL SITE DEMOLITION NOTES:

1. THE EXISTING LIBRARY EXTERIOR GARDEN IS UNDERGOING RENOVATION. PRIMARY WORK IS TO IMPROVE THE MASONRY WALKWAYS AND PROVIDING BETTER DRAINAGE. AT AREAS INDICATED REMOVAL AND RESETTING OF SETTLED BRICKS WILL BE REQUIRED TO ELIMINATE GROSS WATER PONDING DURING HEAVY RAINFALL EVENTS.
2. THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM DRAWINGS FIELD REVIEW; FIELD MEASUREMENT DOCUMENTATION &/or OBSERVATION . NOT ALL EXISTING CONDITIONS MAY BE INDICATED.
3. GC TO VERIFY ALL EXISTING, CONDITIONS, CONNECTIONS, LOCATIONS, SIZES, ETC. IN THE FIELD AND TO COORDINATE EXTENTS OF ALL DEMOLITION WORK WITH ALL NEW WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
4. GC TO PROPERLY DE-ENERGIZE, SHUT OFF & CAP ALL EXISTING UTILITIES (ELECTRICAL, GAS, WATER, ETC.) IF UNCOVERED BELOW GRADE. U.N.O. GC COORDINATE W\ ARCH, CIVIL & MEP DEMOLITION DWGS.
5. GC TO PROVIDE ALL OSHA and/or BUILDING CODE REQUIRED SAFETY PROTECTION TO PROTECT WORKERS FROM FALLS, CRUSHING, ELECTROCUTION &/or IMPACT FROM ABOVE, ETC.
6. GC TO MAINTAIN BUILDING SITE IN A SAFE AND SECURE MANNER SO AS TO ELIMINATE THE APPEARANCE OF AN ATTRACTIVE NUISANCE. A PHYSICAL BARRIER TO PREVENT BUILDING & SITE ACCESS BY CHILDREN AT A MINIMUM IS REQUIRED.
7. GC AND SUB CONTRACTORS TO PROTECT ALL EXISTING WORK TO REMAIN DURING DEMOLITION WORK.
8. CONTRACTOR TO FURNISH AND INSTALL ALL SHORING &/or BRACING TO SUPPORT EXISTING WALLS, FLOORS, ROOFS, ETC. PRIOR TO REMOVAL OF EXISTING CONSTRUCTION OR COMPONENTS.
9. EXISTING BUILDING CONSTRUCTION DEFICIENCIES NOT INDICATED ON THE DRAWINGS, BUT UNCOVERED &/or DISCOVERED BY CONSTRUCTION ACTIVITY SHALL BE REPORTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION OF NEW WORK. ADDITIONAL INFORMATION OR DETAILS WILL BE FURNISHED AS NECESSARY.



1 D102 THIRD FLOOR EXISTING RCP
Scale: 1/8" = 1'-0"
PLAN NORTH



2 D102 EXISTING ROOF
Scale: 1/8" = 1'-0"
PLAN NORTH

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Checked by Checker

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Sheet Contents
DEMOLITION REFLECTED CEILING PLAN & ROOF PLAN

Project Number. 6846

Drawing No. **D102**

Sheet of

GENERAL PLAN NOTES

1. COORDINATE ALL WORK WITH PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO CONSTRUCTION ARE TO FACE OF STUD AND / OR FACE OF EXISTING WALL (U.N.O.)
3. ALL DIMENSIONS TO EXISTING WALLS ARE TO FACE OF GYPSUM BOARD U.N.O
4. ALL EXTERIOR WALLS ARE EXISTING TO REMAIN.
5. ALL INTERIOR WALLS ARE TYPE C6Z U.N.O
6. ALL INTERIOR WALLS ARE TO EXTEND TO THE UNDERSIDE OF ROOF &/or FLOOR STRUCTURE ABOVE U.N.O. REFER TO A800 FOR TYPICAL WALL INTERSECTION & TERMINATION DETAILS.
7. ALL DOOR FRAMES AND VISION PANELS SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO JAMB, U.N.O.
8. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:

   FEC EXISTING FIRE EXTINGUISHER CABINET
   FEC-1 EXISTING FIRE EXTINGUISHER RELOCATED
9. FOR FULLY RECESSED FIRE EXTINGUISHER CABINETS THAT ARE LOCATED IN FIRE RATED WALLS, CABINETS ARE TO BE FIRE-RATED U.N.O.
10. REFER TO ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOLS DESCRIPTION.
12. FINAL PAINT COLORS TO BE SELECTED BY ARCHITECT & INSTALLED BY CONTRACTOR.

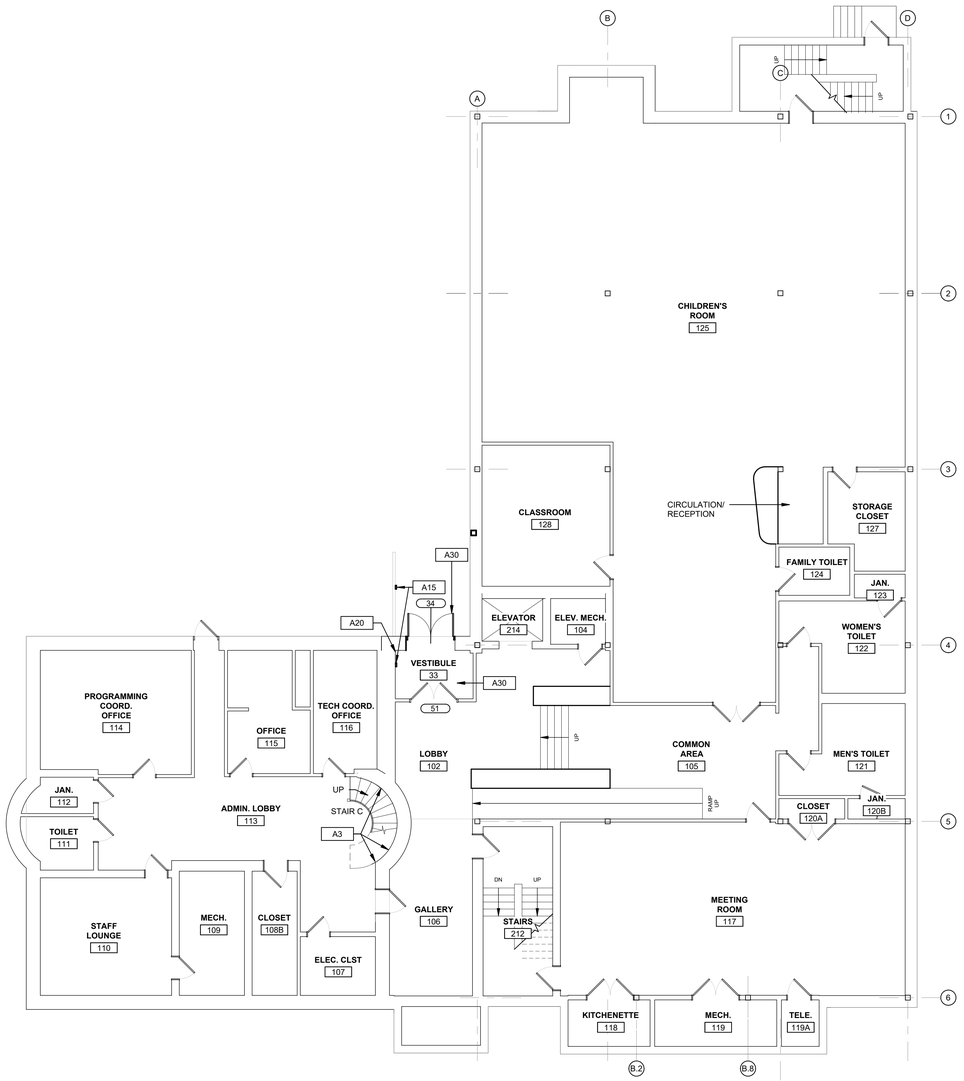
PLAN WORK NOTES

A3 PATCH PLASTER, PRIME & PAINT AT EXISTING WALLS & CEILING.

A15 F&I ALL WIRING AND ACCESSORIES FOR NEW ADA-COMPLIANT DOOR CONTROLLER AND PUSH BUTTON CONTROLERS TO OPERATE DOORS.

A20 F&I NEW TYPE X MOISTURE-RESISTANT GYPSUM WALL BOARD AT THE LOCATION OF NEW PLUMBING FIXTURE. PRIME & PAINT.

A30 F&I NEW ALUMINUM DOOR SYSTEM WITH INSULATED GLAZING, HARDWARE AND AUTOMATIC DOOR OPERATOR.



PLAN NORTH

1 / A100 FIRST FLOOR PLAN

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

CONSTRUCTION LEGEND

- NEW WALL / ITEM
- EXISTING WALL / ITEM
- F&I = FURNISH AND INSTALL
- XXX — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE / AREA.
- XXX — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- NIC (NOT IN CONTRACT)
- INFILL FLOOR FRAMING & SUB FLOOR CONFIRM DIMENSION IN FIELD

Certification

DAVID L. DACHIATTINO No. 7122 REGISTERED PROFESSIONAL ENGINEER 04/21/25

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FLOOR PLANS

Project Number. 6846

Drawing No.

A100

Sheet of

PLAN WORK NOTES

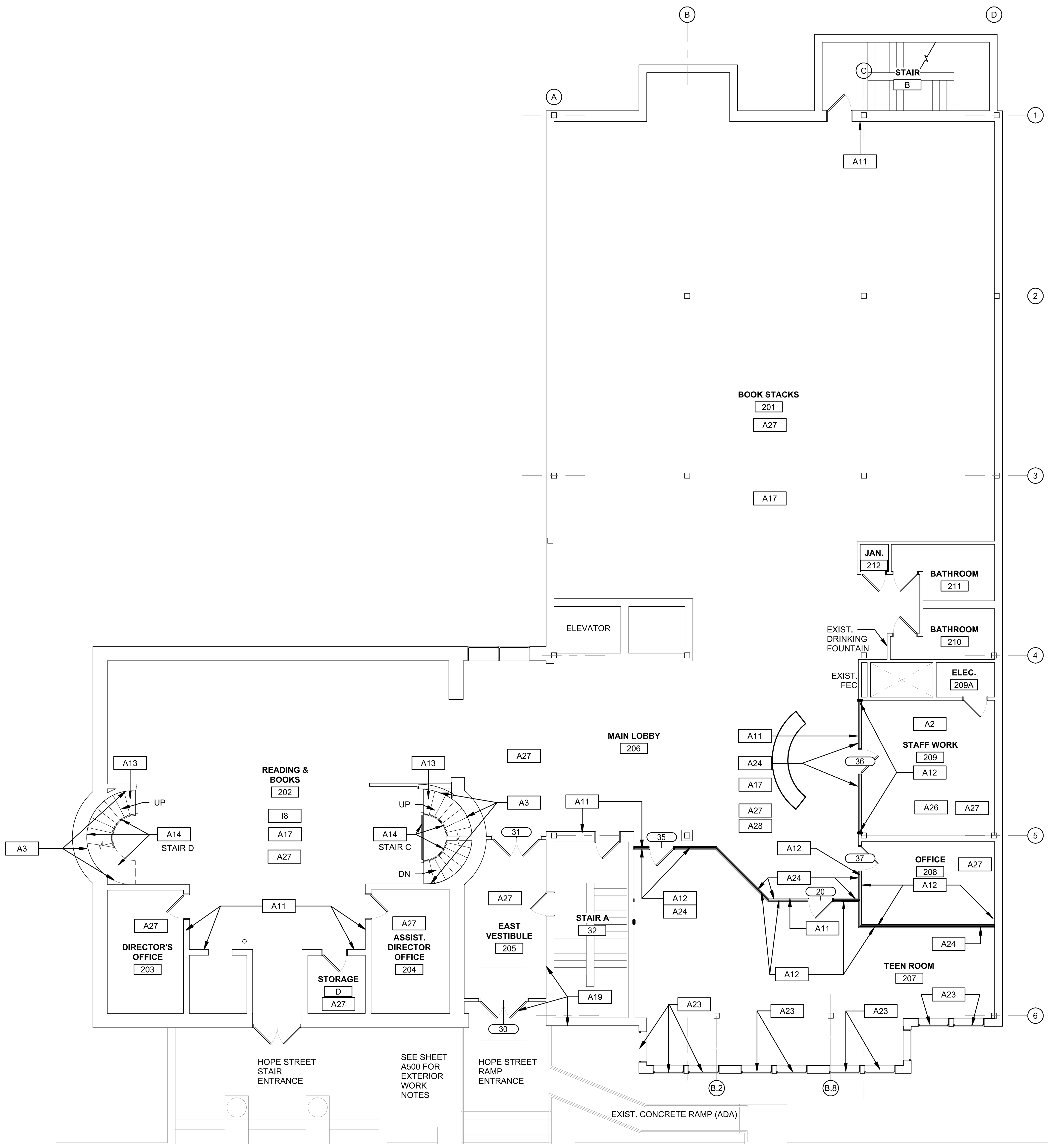
A1	F&I NEW FLOORING SYSTEM AND WALL BASE. NEW BASE BOTH SIDES OF NEW WALLS. RE: INTERIOR DWGS AND FINISH SCHEDULE.
A2	F&I NEW PAINT AT NEW & EXISTING GYPSUM BOARD WALLS AND/OR CEILINGS, TYP.
A3	PATCH PLASTER, PRIME & PAINT AT EXISTING WALLS & CEILING.
A4	F&I NEW VISION PANELS WITH ALL ASSOCIATE FASTENERS & TRIM. PRIME & PAINT. RE: ELEVATIONS & SCHEDULES.
A5	F&I NEW ADA COMPLIANT SINK & FAUCET. CONNECT TO WATER AND WASTE LINES. RE: SCHEDULES & PLUMBING DRAWING.
A7	PRIME & PAINT EXISTING METAL COLUMNS & GUARD RAILINGS. ARCHITECT TO SELECT COLOR.
A8	F&I NEW POWER/DATA. COORDINATE LOCATIONS WITH OWNER'S I.T. AND OWNER-SUPPLIED EQUIPMENT & FURNITURE. SEE MEP DRAWINGS.
A9	F&I NEW MILLWORK AND ALL REQUIRED BLOCKING. FABRICATE MILLWORK TO SIZE AND DIMENSIONS INDICATED. RE: INTERIOR ELEVATIONS AND FINISH SCHEDULES.
A11	F&I NEW ADA-COMPLIANT SIGNAGE WITH BRAILE AT ALL NEW (AND EXISTING SPACES WHERE THIS IS NOT PRESENT) TYPICAL ALL FLOORS. G.C. TO VERIFY QUANTITY IN FIELD.
A12	F&I NEW CLEAR SILCONE SEALANT TO FILL GAPS BETWEEN EXISTING GLASS WALL SEGMENTS. TYPICAL ALL FLOORS. G.C. TO VERIFY QUANTITY IN FIELD. SEE DETAIL 2/800.
A13	F&I NEW RUBBER TREADS AND RISERS AT EXISTING MEZZANINE STAIRS (DOWN TO FIRST FLOOR).
A14	F&I LABOR AND MATERIAL TO PAINT METAL AT EXISTING MEZZAINE STAIRS (STAIR C AND STAIR D) METAL STRINGERS, RAILINGS AND FIRST FLOOR GUARD.
A16	F&I NEW RECESSED FLOOR DUPLEX OUTLETS. PROVIDE (4) RECESS POWER OUTLETS & (4) LAN PORTS EACH LOCATION. RE IT & ELEC DWGS.
A17	G.C TO ASSEMBLE AND INSTALL EXISTING BOOKSHELVES IN NEW LOCATION. NOT ALL BOOKSHELVE LOCATIONS SHOWN IN PLAN. CONFIRM NEW LOCATIONS WITH OWNER. FASTEN TO WALL/FLOOR TO PREVENT TIPPING.
A18	F&I NEW TYPE X DRYWALL. PRIME & PAINT. ARCHITECT TO SELECT PAINT COLOR.
A19	F&I NEW HARDWARE. COORDINATE WITH DOOR SCHEDULE AND DOOR HARDWARE SPECIFICATIONS.
A21	F&I EYE WASH / EYE WASH FAUCET, SEE PLUMBING SCHEDULE.
A22	F&I PRIVACY FILM AT EXISTING GLASS WALLS. SEE SPECIFICATIONS.
A23	F&I AUTOMATIC SHADES AND POWER/WIRING TO OPERATE SHADES. SEE SPECS AND ELECTRICAL DRAWINGS.
A24	F&I NEW BLOWN-IN INSULATION AT EXISTING GYPSUM BOARD WALLS. REMOVE EXISTING GYPSUM BOARD AS REQUIRED TO INSTALL. PATCH GYPSUM BOARD OPENING AT INSULATION INSTALL. PRIME & PAINT WALLS TO MATCH EXISTING PAINT COLOR.
A25	F&I NEW WINDOW GASKET AT EXISTING WINDOW SASH. ADD ALTERNATE 1. SEE SPECS.
A26	F&I NEW PAINT AT EXISTING CMU AND GYPSUM BOARD WALLS. ARCHITECT TO SELECT PAINT COLOR.
A27	F&I NEW CARPET AND CARPET PAD.
A28	G.C TO ADJUST ALL DOOR FLOOR CLOSERS AT ALL EXISTING GLASS SWING DOORS AT EXISTING SECOND AND THIRD FLOORS. PROVIDE PARTS AND ACCESSORIES AS NEEDED. SEE ALTERNATES SPEC. PLAN WORK NOTES
A31	F&I NEW FLOOR FRAMING TO MATCH EXISTING AND NEW PLYWOOD SUBFLOOR AT LOCATION OF DEMOLISHED DUMB-WATER. PREP FOR NEW FLOOR FINISH. PATCH & PAINT CEILING AT SECOND FLOOR CEILING.

GENERAL PLAN NOTES

1. COORDINATE ALL WORK WITH PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO CONSTRUCTION ARE TO FACE OF STUD AND / OR FACE OF EXISTING WALL (U.N.O.)
3. ALL DIMENSIONS TO EXISTING WALLS ARE TO FACE OF GYPSUM BOARD U.N.O
4. ALL EXTERIOR WALLS ARE EXISTING TO REMAIN.
5. ALL INTERIOR WALLS ARE TYPE C6Z U.N.O
6. ALL INTERIOR WALLS ARE TO EXTEND TO THE UNDERSIDE OF ROOF &/or FLOOR STRUCTURE ABOVE U.N.O. REFER TO A800 FOR TYPICAL WALL INTERSECTION & TERMINATION DETAILS.
7. ALL DOOR FRAMES AND VISION PANELS SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO JAMB, U.N.O.
8. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:
   - FEC EXISTING FIRE EXTINGUISHER CABINET
   - FEC-1 EXISTING FIRE EXTINGUISHER RELOCATED
9. FOR FULLY RECESSED FIRE EXTINGUISHER CABINETS THAT ARE LOCATED IN FIRE RATED WALLS, CABINETS ARE TO BE FIRE-RATED U.N.O.
10. REFER TO ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOLS DESCRIPTION.
12. FINAL PAINT COLORS TO BE SELECTED BY ARCHITECT & INSTALLED BY CONTRACTOR.

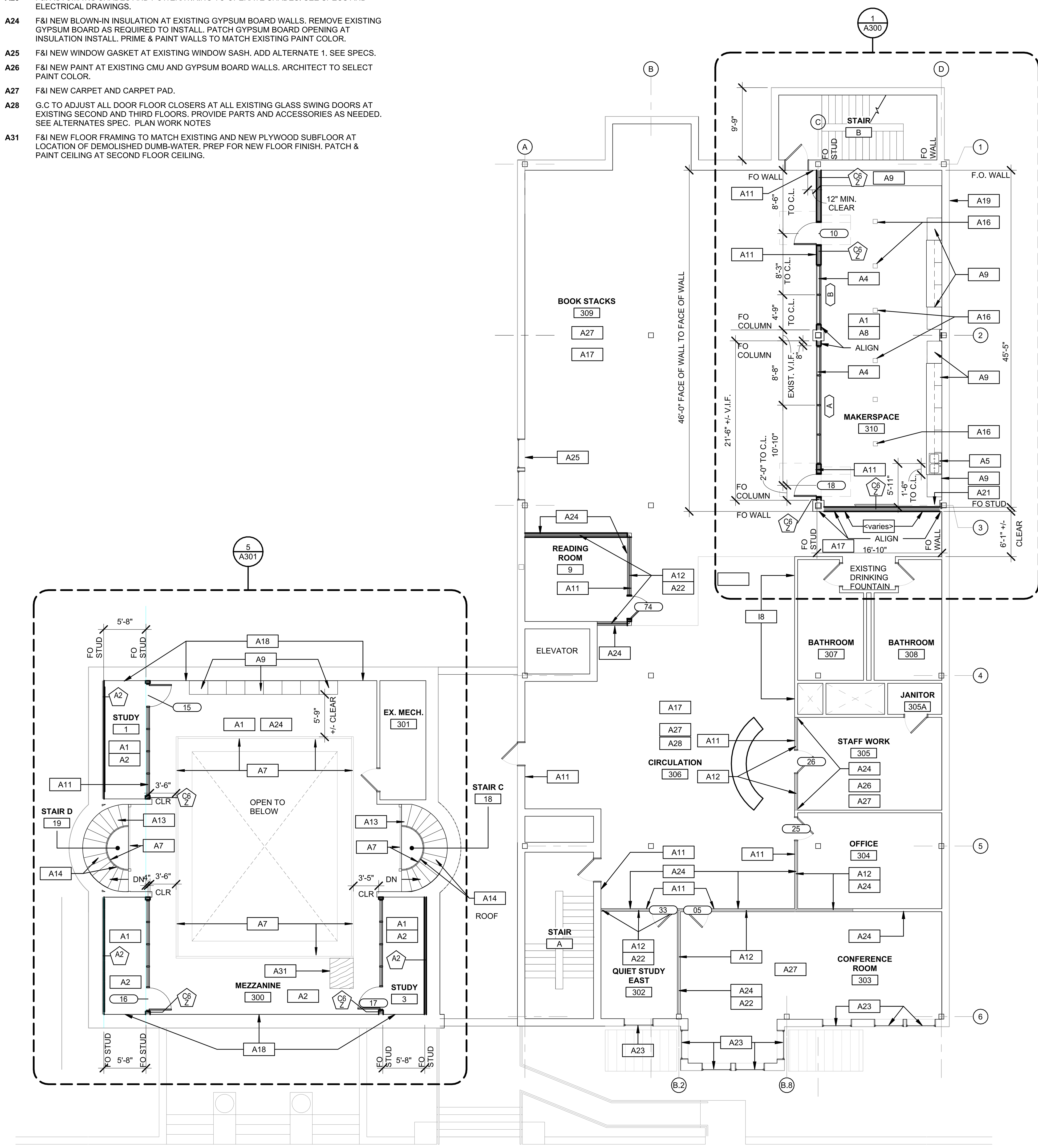
CONSTRUCTION LEGEND

(dark filled bar)	NEW WALL / ITEM
(double line)	EXISTING WALL / ITEM
F&I =	FURNISH AND INSTALL
XXX	WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE / AREA.
← XXX	WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
(grey box)	NIC (NOT IN CONTRACT)
(hatched box)	INFILL FLOOR FRAMING & SUB FLOOR CONFIRM DIMENSION IN FIELD



PLAN NORTH

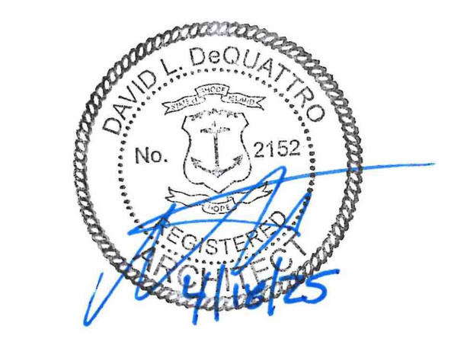
1 A101 SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



PLAN NORTH

2 A101 THIRD FLOOR PLAN
Scale: 1/8" = 1'-0"

Certification



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Sheet Contents
FLOOR PLANS

Project Number. 6846

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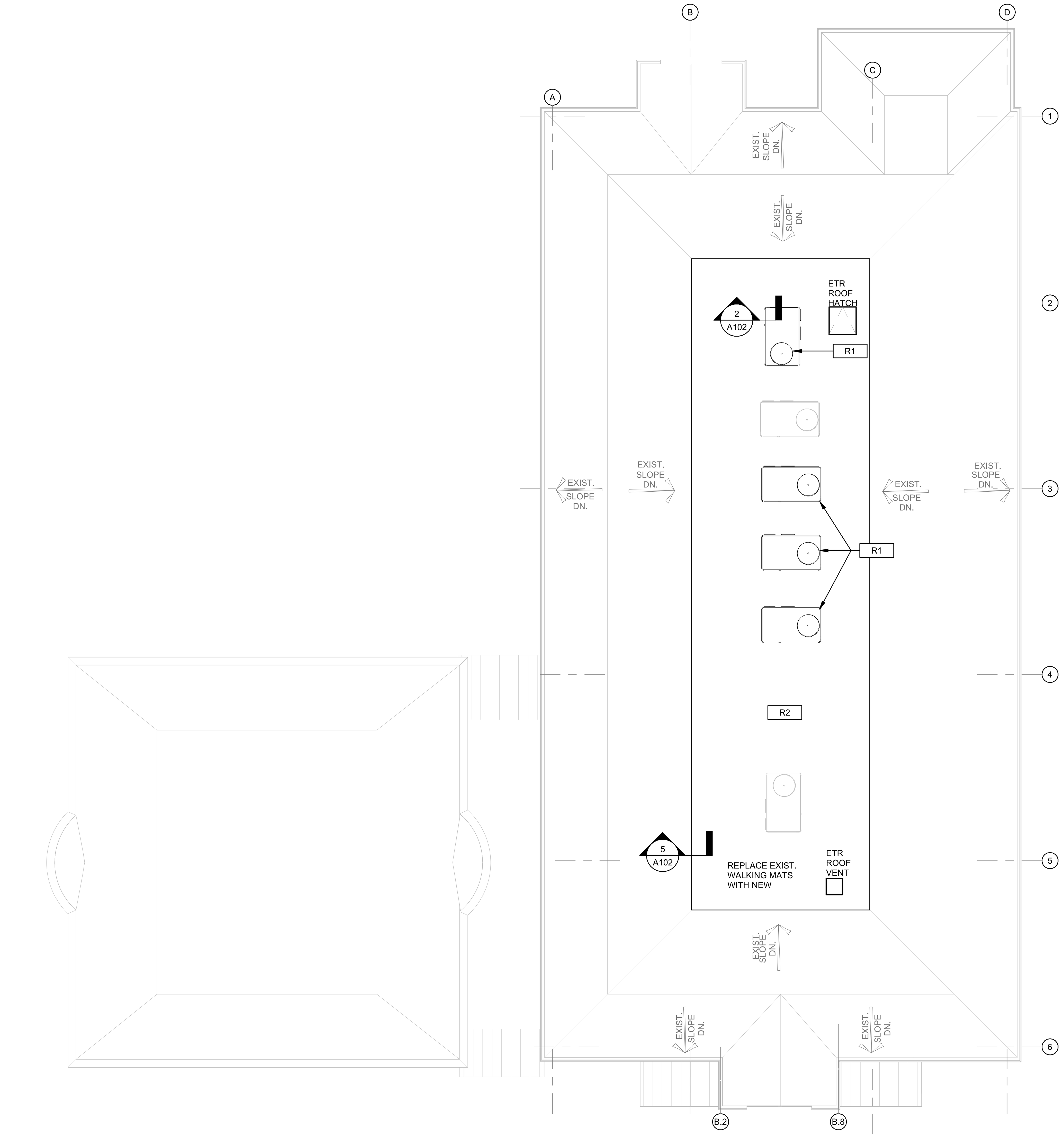
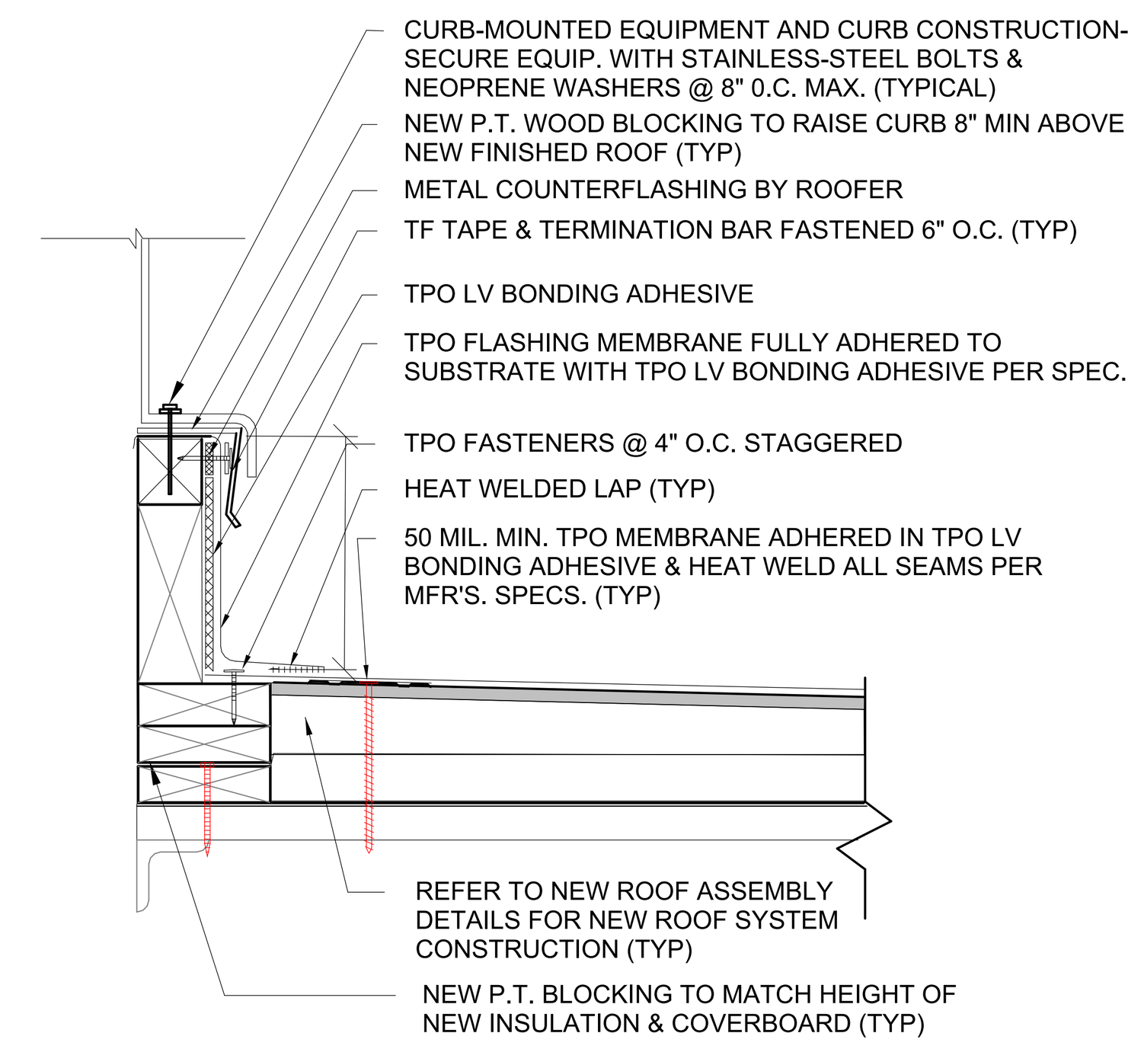
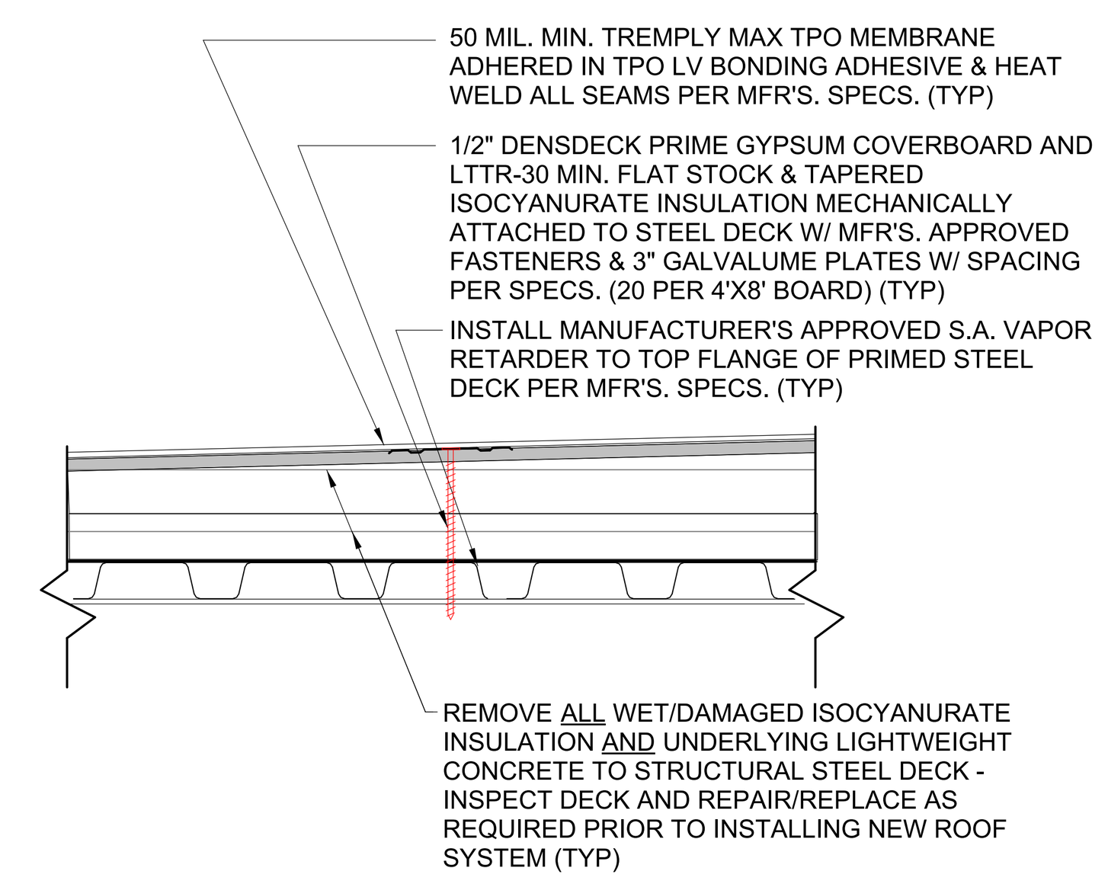


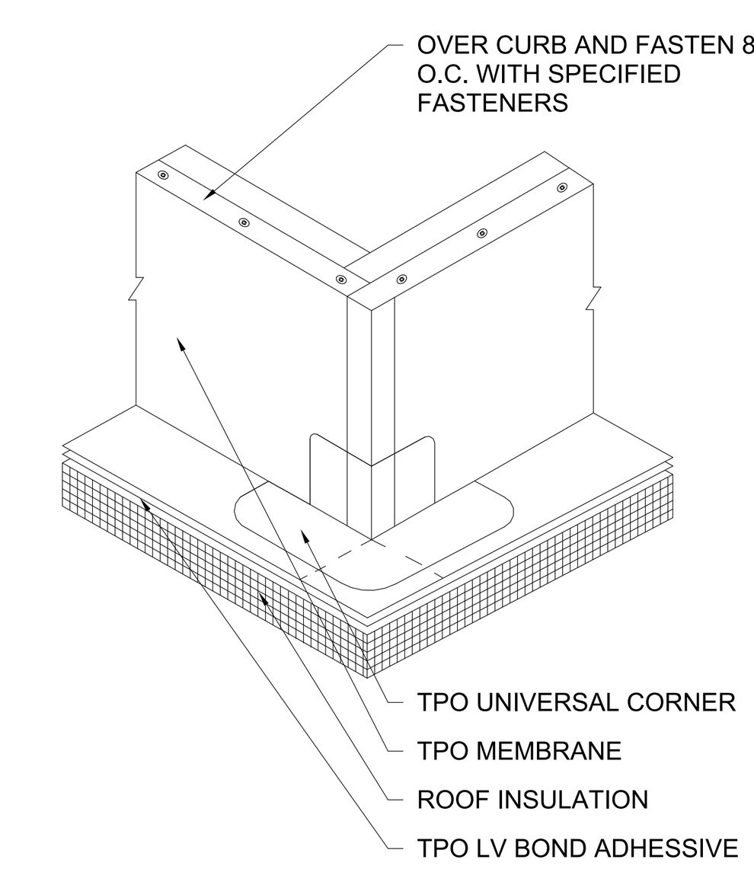
1 ROOF PLAN
A102 Scale: 1/8" = 1'-0"



2 TYPICAL CURB FLASHING DETAIL
A102 Scale: 1 1/2" = 1'-0"



3 TYPICAL ROOF ASSEMBLY DETAIL
A102 Scale: 1 1/2" = 1'-0"



4 UNIVERSAL FLASHING DETAIL
A102 Scale: 1 1/2" = 1'-0"

GENERAL ROOF NOTES

1. NOT ALL PENETRATIONS MAY BE SHOWN. COORDINATE ALL WORK w/ STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL &/or OTHER DRAWINGS.
2. ALL DIMENSIONS TO NEW CONSTRUCTION ARE TO FACE OF STUD AND FACE OF MASONRY U.N.O.
3. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FACE OF FINISH U.N.O.
4. ALL NEW ROOF SYSTEMS ARE TYPE 100 U.N.O.
5. ARROW SLOPE DN. DENOTES DOWNWARD SLOPE OF ROOF.
6. PROVIDE ROOF CRICKETS (TAPERED INSULATION) UPSLOPE OFNALL HVAC &/or OTHER ROOF TOP EQUIPMENT CURBS TO PREVENT PONDING OF WATER. SLOPE CRICKETS AT ±1/2" / FT (TYP)
7. PROVIDE NOM. 30" SQ WALKING PADS AROUND ALL ROOF TOP EQUIPMENT & AT ROOF ACCESS POINT(S). EXTENT OF WALKING PATH(S) ARE SHOWN. G.C. TO VERIFY EXACT QUANTITY.
8. CONTRACTOR TO LOCATE MECHANICAL EQUIPMENT 10' MINIMUM FROM ROOF EDGE(S) WITH FALL POTENTIAL UNLESS GUARD RAIL SYSTEM IS INDICATED.

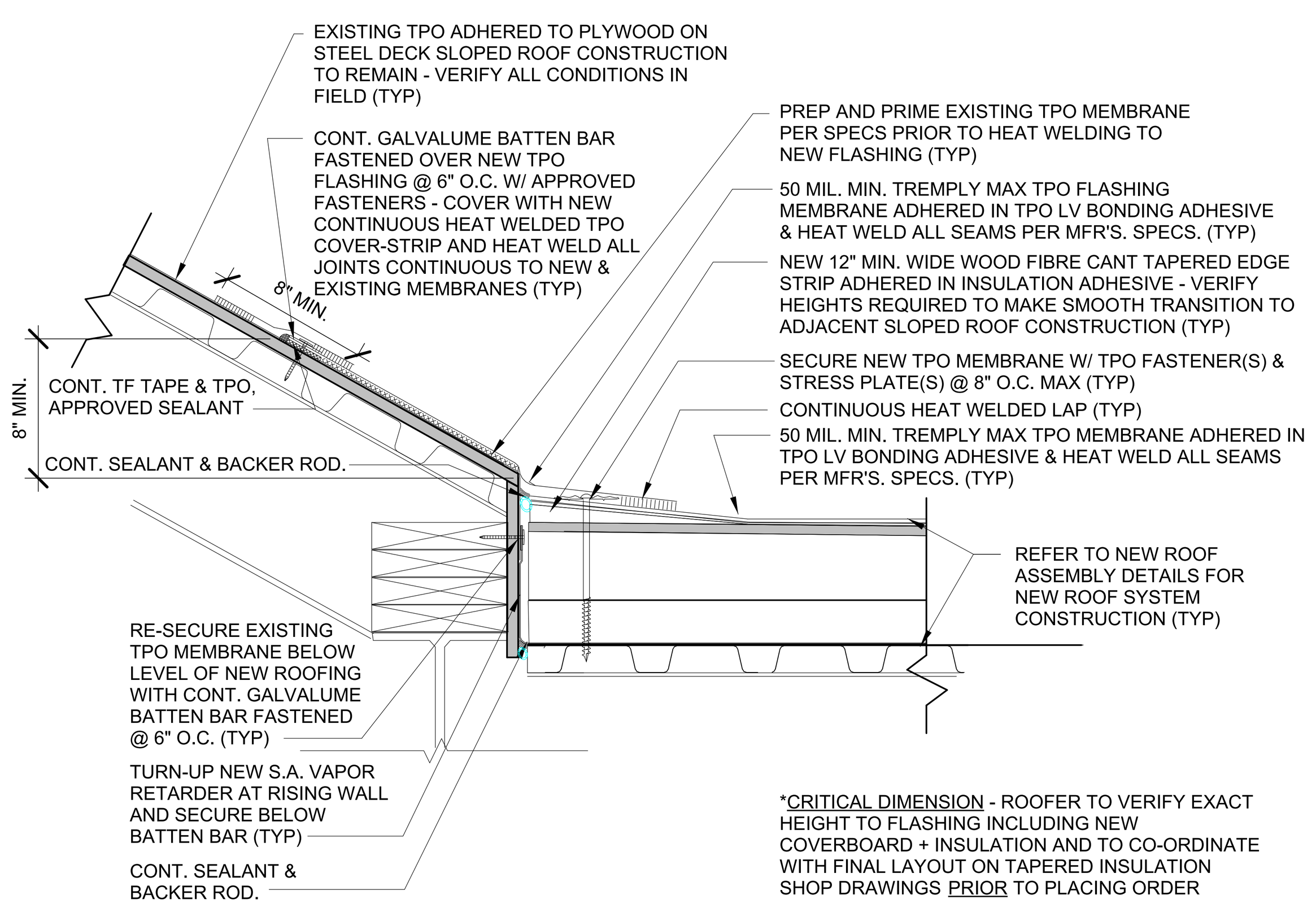
ROOF PLAN LEGEND

- # — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- # — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- HIGH / LOW — ROOF ELEVATION CHANGE
- ROOF DRAIN
- PV — PLUMBING VENT
- 2' × 2' — ROOF WALK PAD
- SUPPLY/EXHAUST FAN
- SCUTTLE DR / ROOF ACCESS
- MECHANICAL UNIT
- T.O.S. X'-X" — TOP OF STEEL
- SLOPE DN. — PITCH & SLOPE DIRECTION
- 2 1/2"T — TAPERED SECTION HEIGHT ABOVE INSULATION

ROOF PLAN WORK NOTES

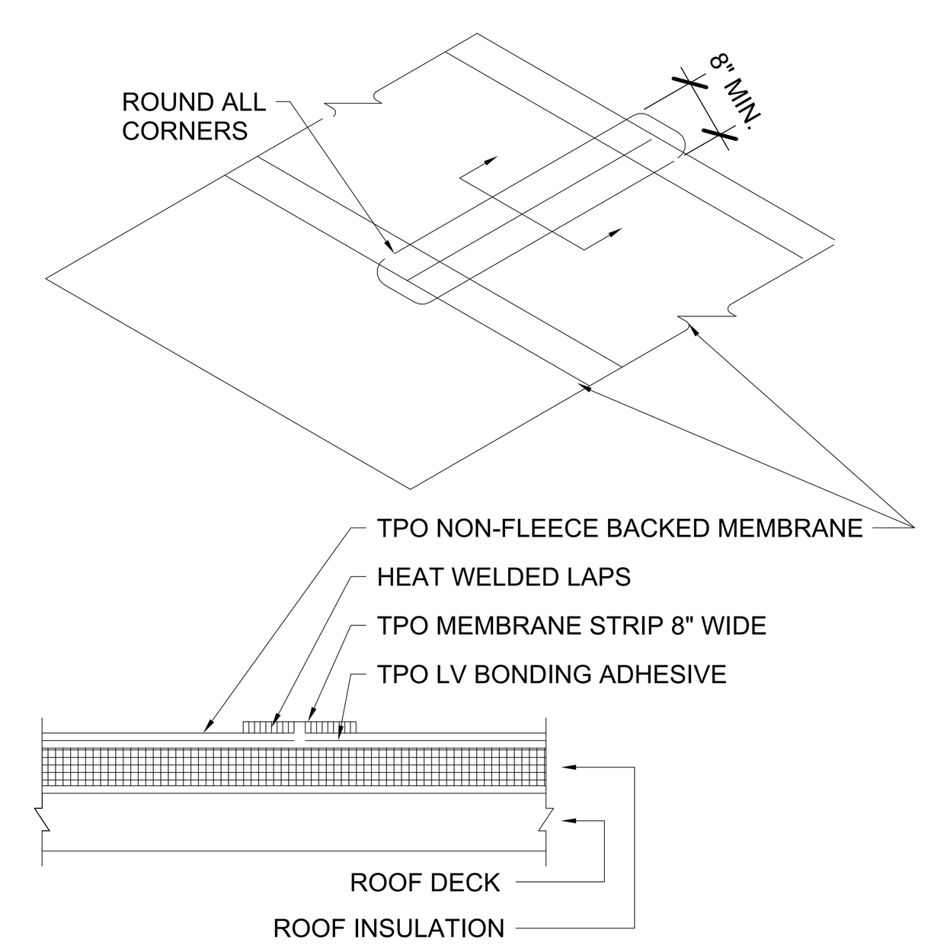
R1 F&I R&D ROOF TOP UNITS 2-5 RE: SPECIFICATIONS AND MECHANICAL DRAWINGS.

R2 F&I PARTIAL NEW ROOF, RE: DETAILS/TEST REPORT & REPAIRS.

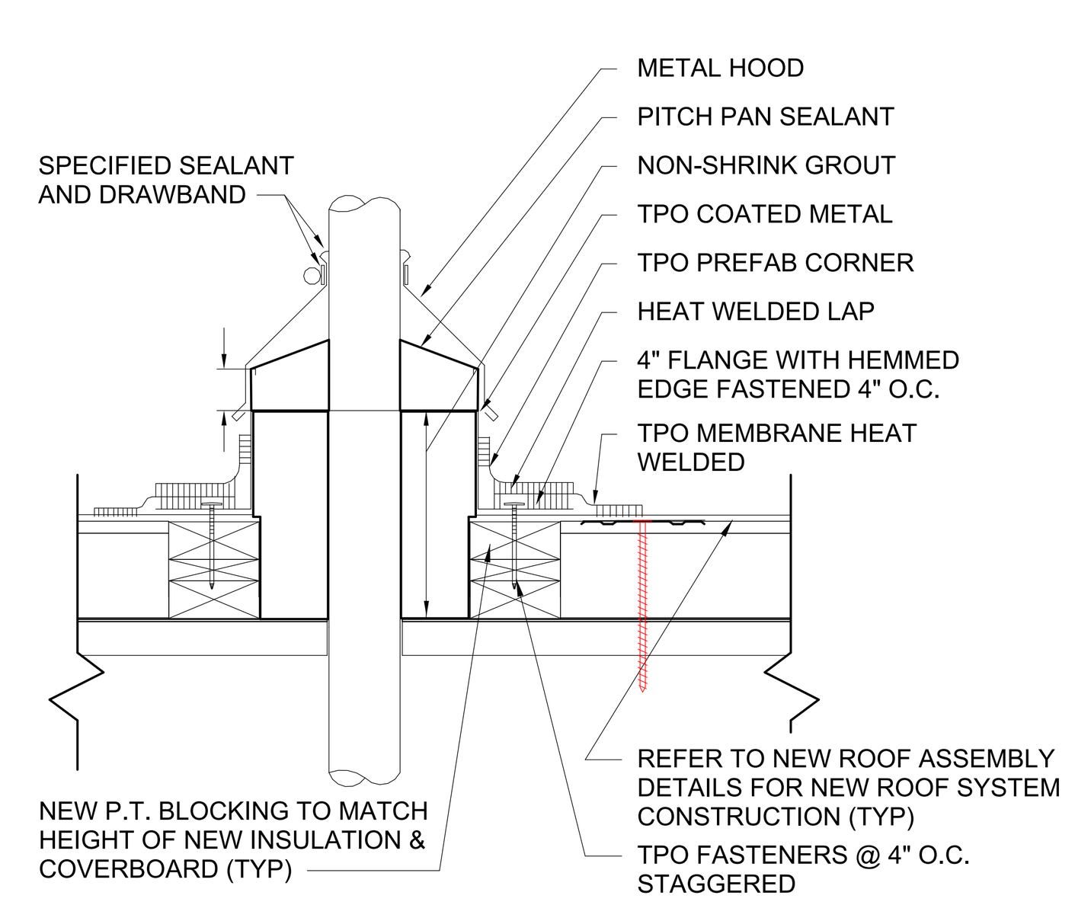


*CRITICAL DIMENSION - ROOFER TO VERIFY EXACT HEIGHT TO FLASHING INCLUDING NEW COVERBOARD + INSULATION AND TO CO-ORDINATE WITH FINAL LAYOUT ON TAPERED INSULATION SHOP DRAWINGS PRIOR TO PLACING ORDER

5 SLOPED ROOF TIE-IN / FLASHING DETAIL
A102 Scale: 1 1/2" = 1'-0"

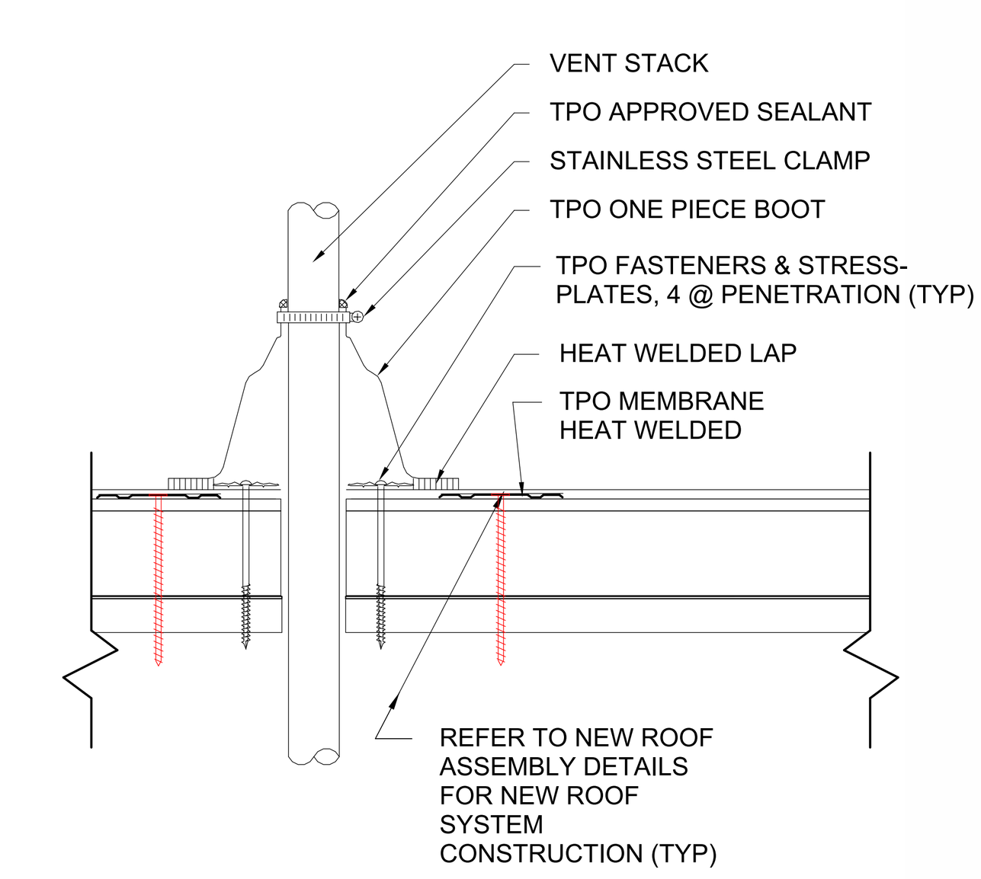


6 TYPICAL END LAP DETAIL
A102 Scale: 1 1/2" = 1'-0"



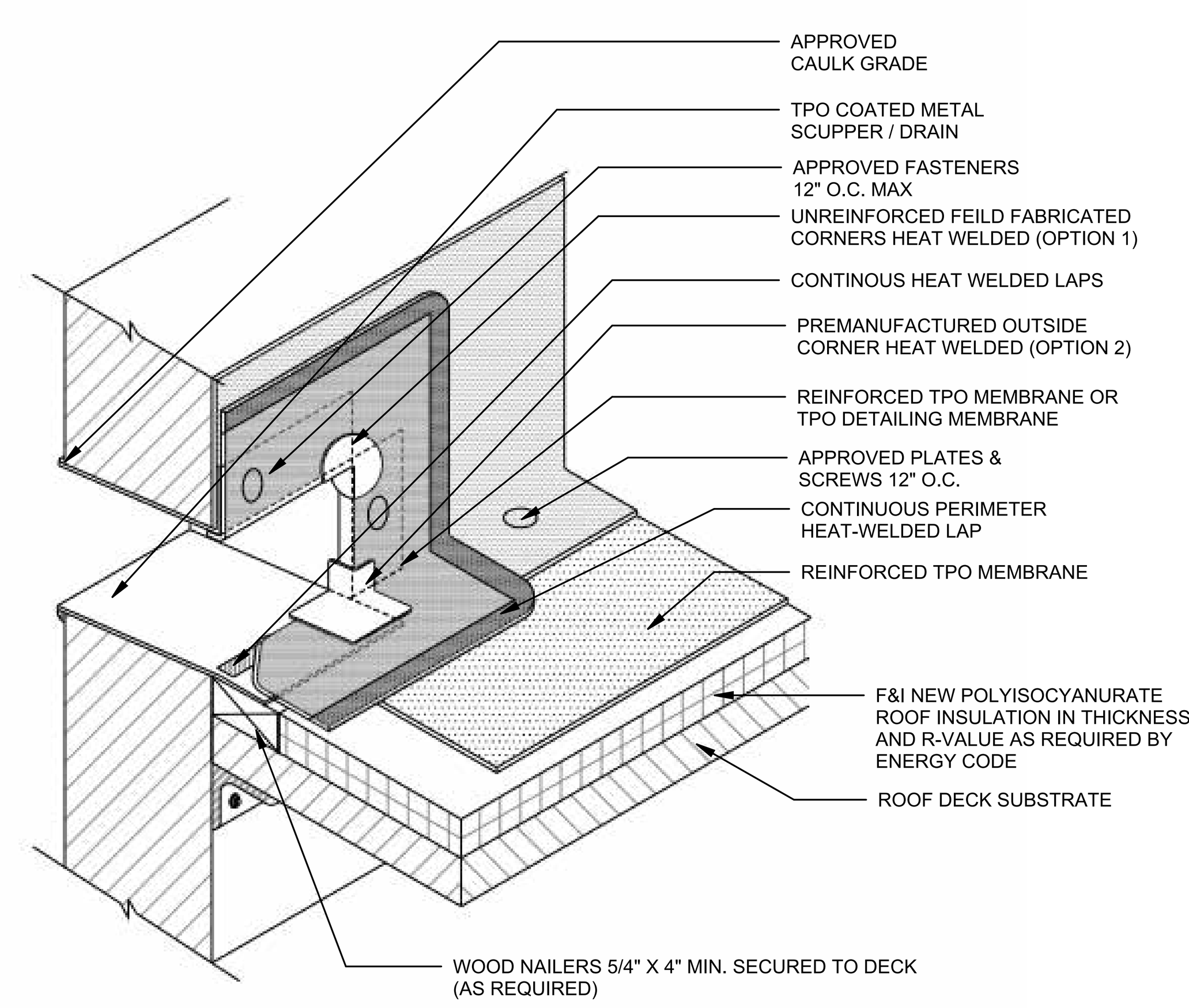
NOTES:
- USE TPO COATED METAL TO FORM PITCH PAN.
- ALLOW 2" MINIMUM CLEARANCE AROUND THE PROJECTION.
- TPO PREFABRICATED CORNERS MUST BE USED AT ALL 4 CORNERS

7 PITCH POCKET FLASHING DETAIL
A102 Scale: 1 1/2" = 1'-0"



NOTES:
- DO NOT CUT PREFABRICATED BOOT. IT MUST BE PULLED OVER VENT PIPE.
- PREFABRICATED BOOTS ARE AVAILABLE IN SMALL & LARGE SIZES, AND MUST BE USED WHENEVER POSSIBLE TO FLASH PIPES 1" TO 8" IN DIAMETER.

8 PREFORMED PIPE FLASHING DETAIL
A102 Scale: 1 1/2" = 1'-0"



NOTES:
1. FOR INSULATION THICKNESS GREATER THAN 8", A HARDBOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. REMEMBER TO INSTALL UNREINFORCED OR PREMANUFACTURED OUTSIDE CORNERS TO THE SCUPPER / DRAIN FOUR ROOF-SIDE CORNERS.
3. SCUPPER / DRAIN MUST BE SEALED OFF ON OUTSIDE OF THE BUILDING.
4. IF TPO COATED METAL IS NOT AN OPTION ADHERE MEMBRANE TO THE SCUPPER BOX / DRAIN.
5. APPLY TPO CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES.

9 COATED METAL SCUPPER/DRAIN DETAIL
A102 Scale: 1 1/2" = 1'-0"

Certification

DAVID L. DeQUATTRO No. 2152 REGISTERED ARCHITECT STATE OF RHODE ISLAND HOPE 4/18/25

Drawn by Author
Checked by Checker

Revised on

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Project

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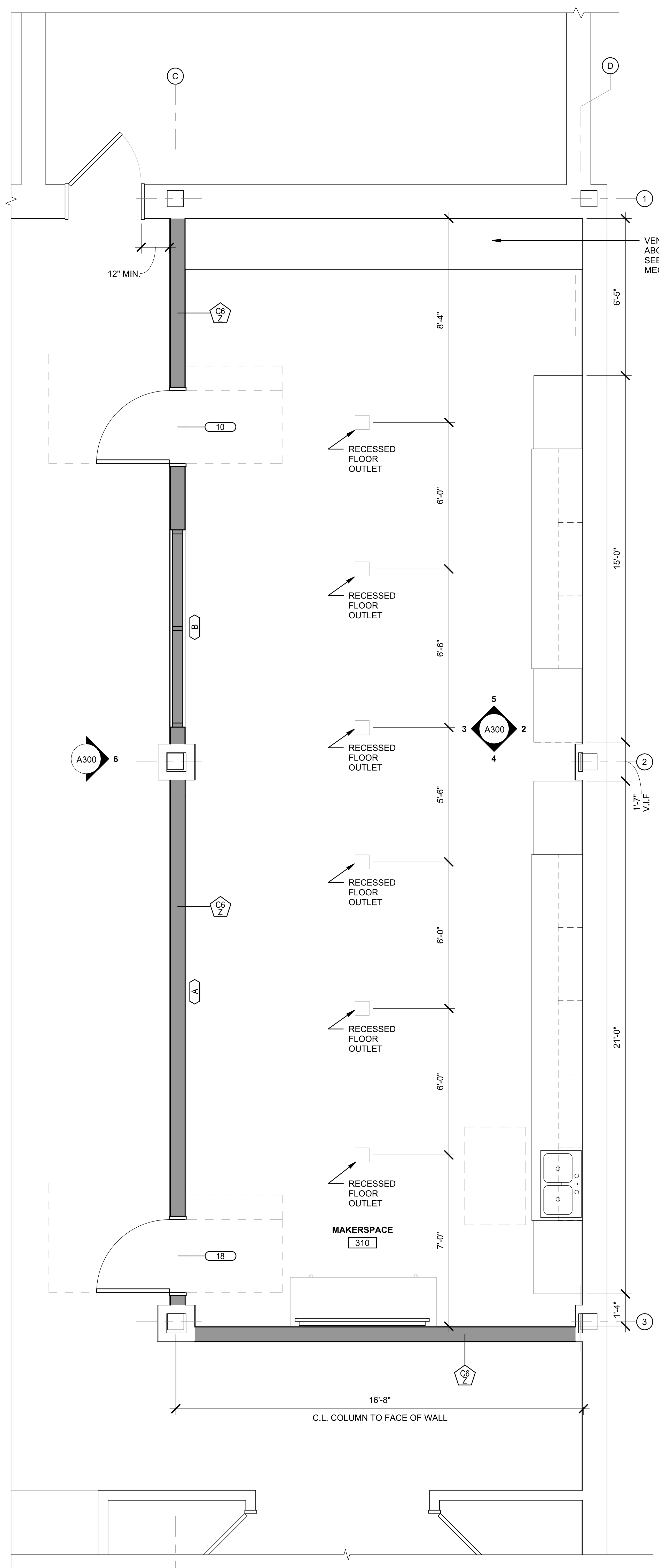
Sheet Contents
ROOF PLAN & DETAILS

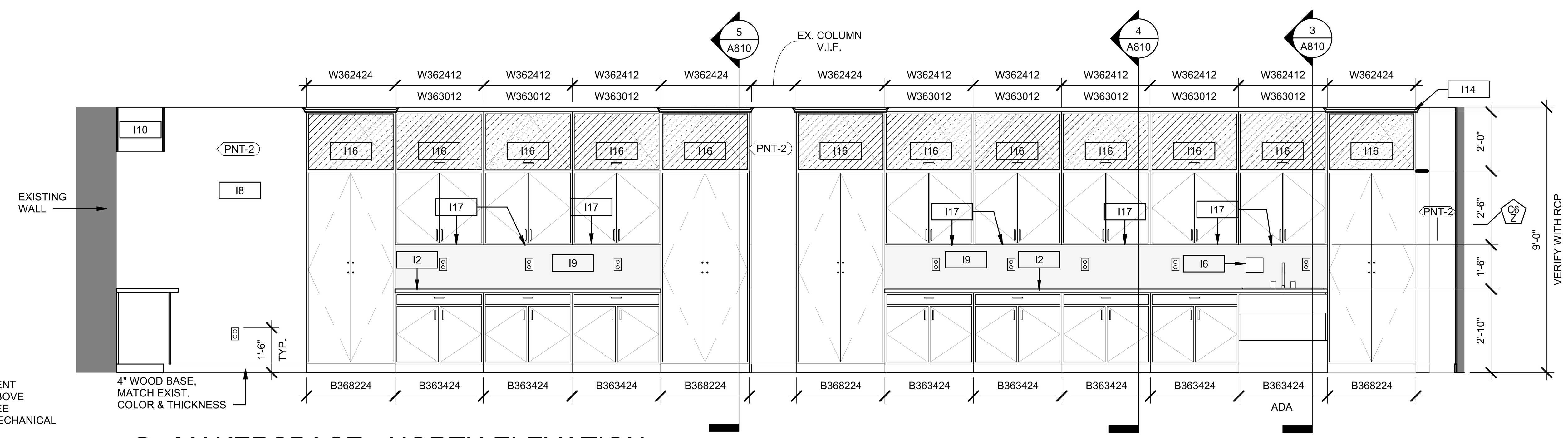
Project Number. 6846

Drawing No. A102

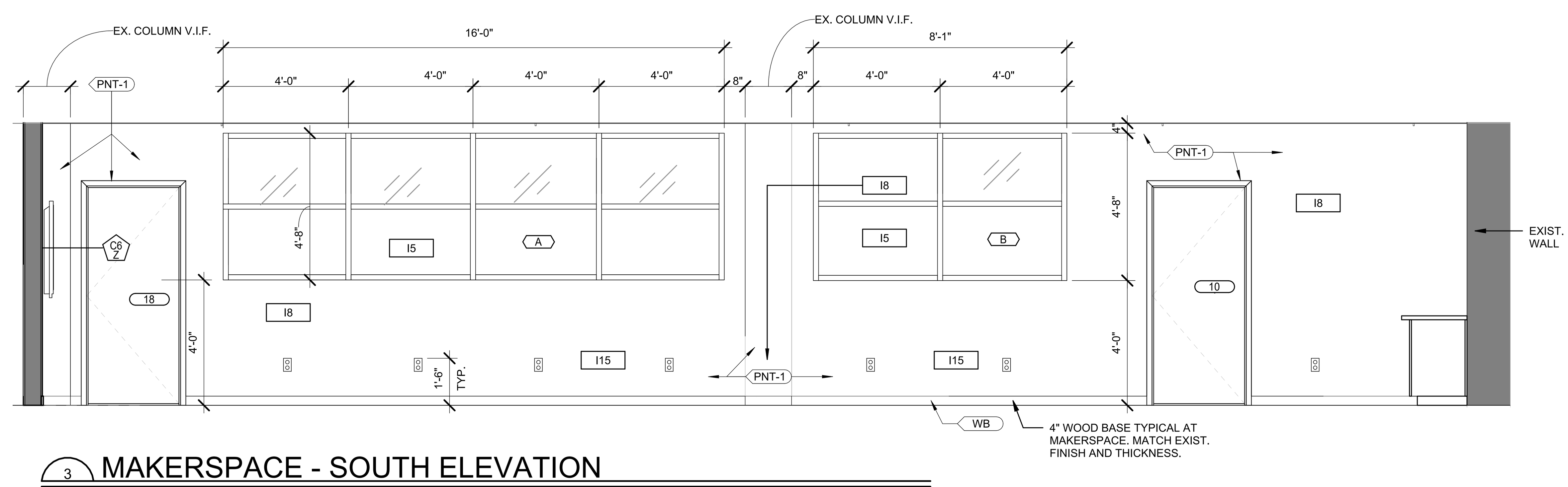
Sheet of



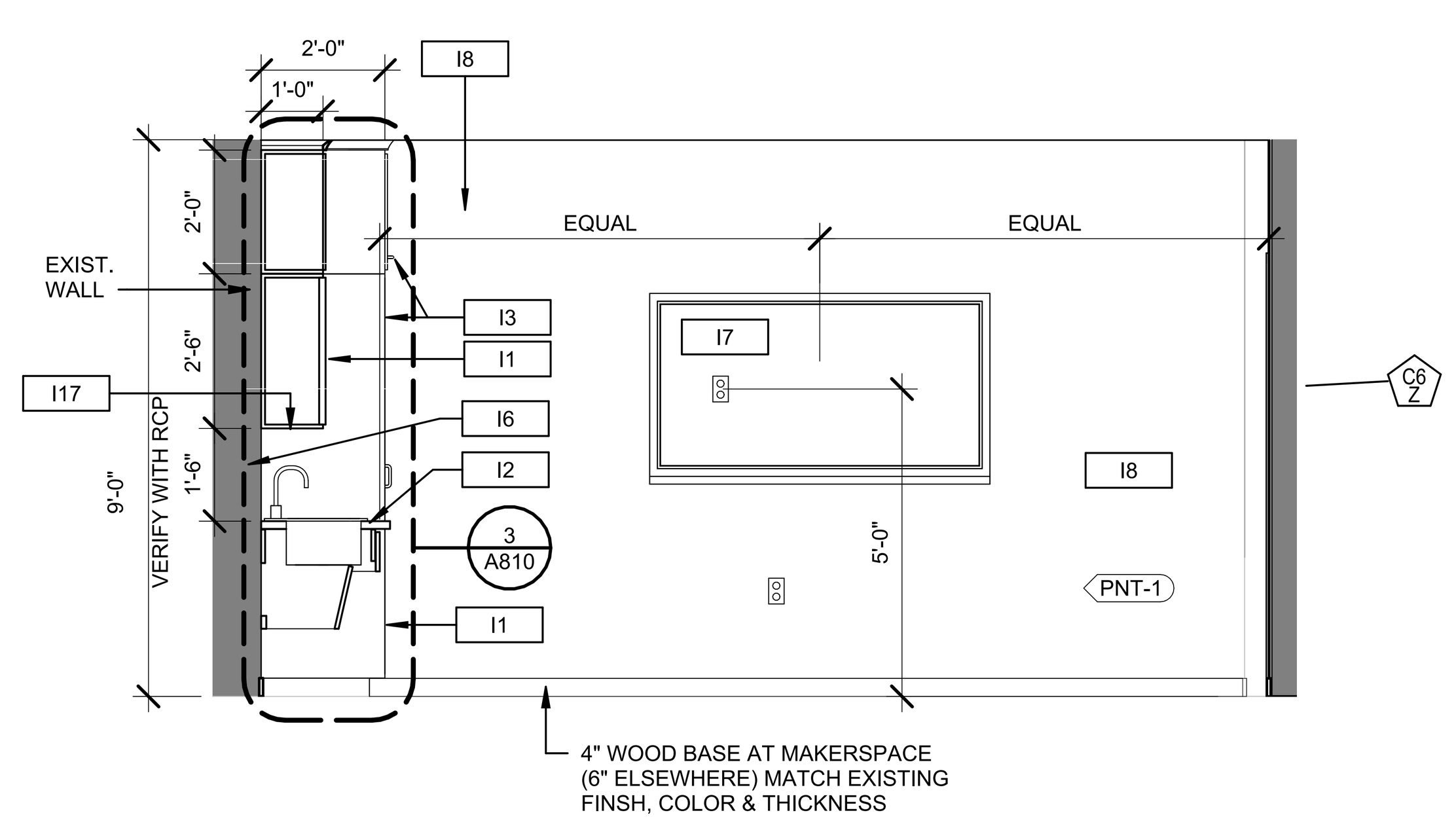
1 MAKERSPACE
A300 Scale: 3/8" = 1'-0"
PLAN NORTH



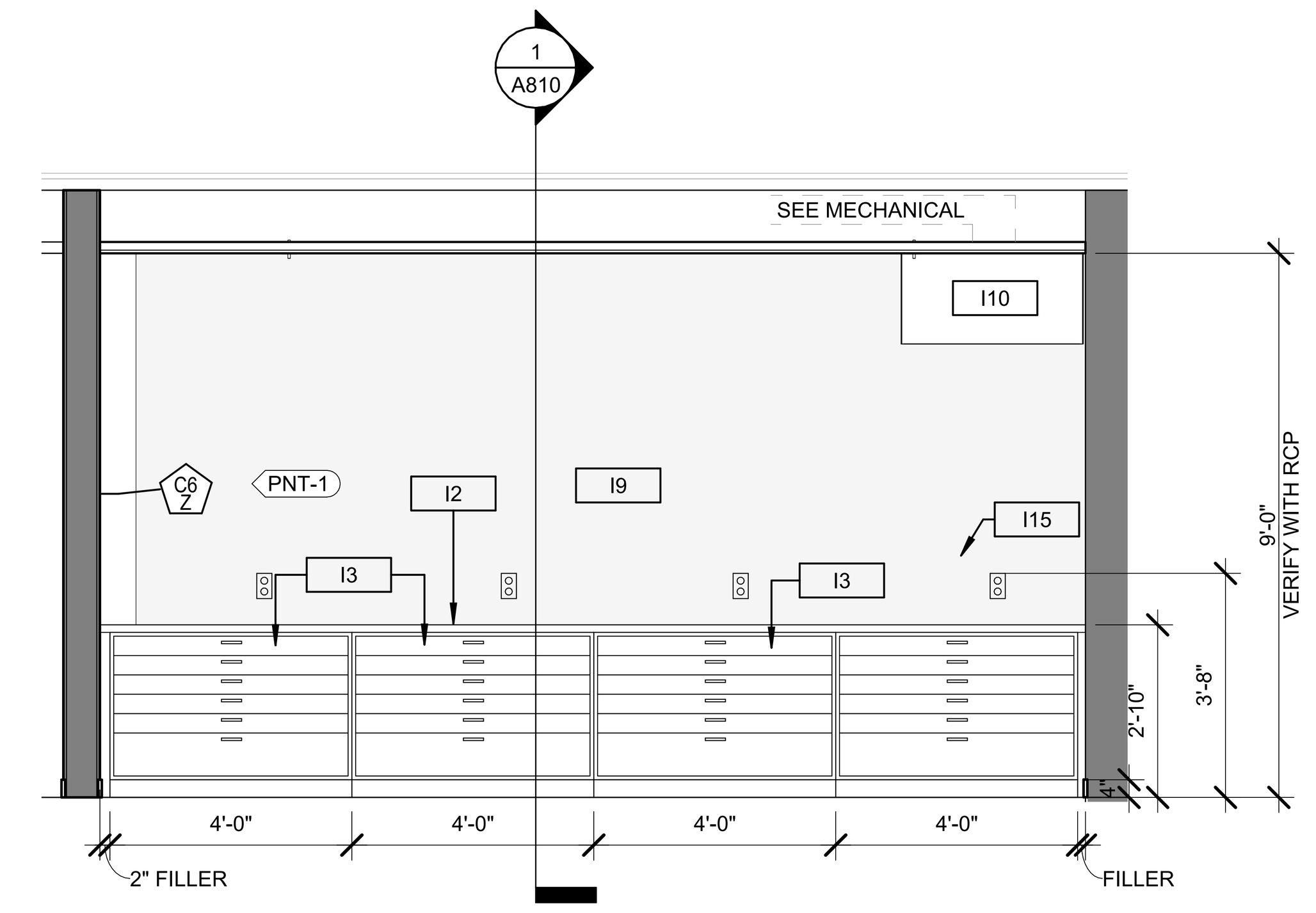
2 MAKERSPACE - NORTH ELEVATION
A300 Scale: 3/8" = 1'-0"



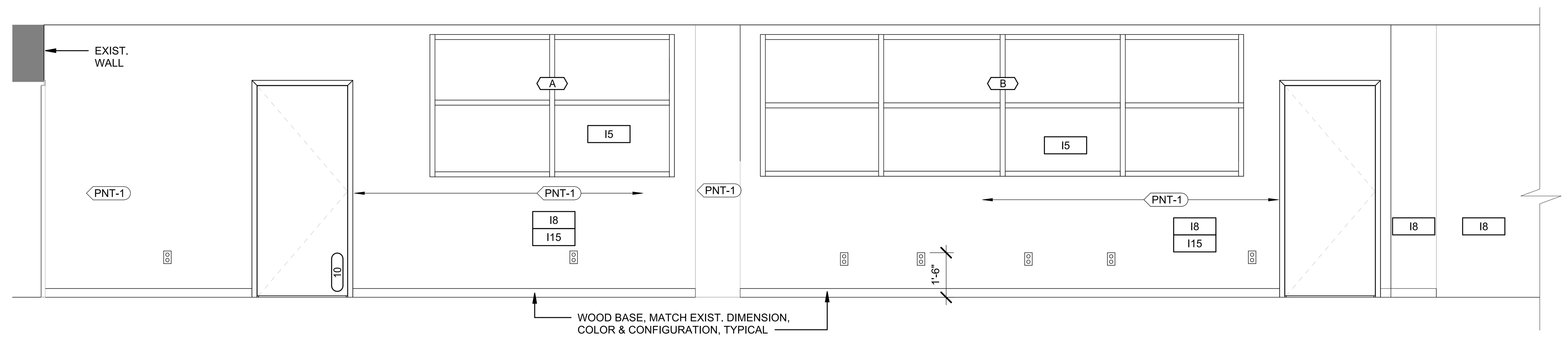
3 MAKERSPACE - SOUTH ELEVATION
A300 Scale: 3/8" = 1'-0"



4 MAKERSPACE - EAST ELEVATION
A300 Scale: 3/8" = 1'-0"



5 MAKERSPACE - WEST ELEVATION
A300 Scale: 3/8" = 1'-0"



6 LIBRARY - NORTH ELEVATION
A300 Scale: 3/8" = 1'-0"

GENERAL PLAN NOTES

1. COORDINATE ALL WORK WITH PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO CONSTRUCTION ARE TO FACE OF STUD AND / OR FACE OF EXISTING WALL (U.N.O.)
3. ALL DIMENSIONS TO EXISTING WALLS ARE TO FACE OF GYPSUM BOARD U.N.O
4. ALL EXTERIOR WALLS ARE EXISTING TO REMAIN.
5. ALL INTERIOR WALLS ARE TYPE C6Z U.N.O
6. ALL INTERIOR WALLS ARE TO EXTEND TO THE UNDERSIDE OF ROOF &/or FLOOR STRUCTURE ABOVE U.N.O. REFER TO A800 FOR TYPICAL WALL INTERSECTION & TERMINATION DETAILS.
7. ALL DOOR FRAMES AND VISION PANELS SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO JAMB, U.N.O.
8. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:
   - FEC EXISTING FIRE EXTINGUISHER CABINET
   - FEC-1 EXISTING FIRE EXTINGUISHER RELOCATED
9. FOR FULLY RECESSED FIRE EXTINGUISHER CABINETS THAT ARE LOCATED IN FIRE RATED WALLS, CABINETS ARE TO BE FIRE-RATED U.N.O.
10. REFER TO ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOLS DESCRIPTION.
12. FINAL PAINT COLORS TO BE SELECTED BY ARCHITECT & INSTALLED BY CONTRACTOR.

CONSTRUCTION LEGEND

	NEW WALL / ITEM
	EXISTING WALL / ITEM
F&I =	FURNISH AND INSTALL
XXX	WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE / AREA.
XXX (with arrow)	WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
	NIC (NOT IN CONTRACT)
	INFILL FLOOR FRAMING & SUB FLOOR CONFIRM DIMENSION IN FIELD
#	FINSH / MATERIAL TAG

INTERIOR WORK NOTES

I1	F&I NEW LOCKABLE CABINETS WITH ADJUSTABLE SHELVES, ALL DOORS TO HAVE SOFT CLOSE HARDWARE & HINGES, ADA PULLS.
I2	F&I NEW COUNTERTOP AND TILE BACKSPLASH SEE DETAILS. COLOR & FINISH TO BE SELECTED. THERE IS NO END OR BACKSPLASH WHERE WALL TILE WILL BE USED.
I3	F&I NEW LOCKABLE STORAGE CABINETS, SEE DETAILS. FASTEN TO WALL & FLOOR TO PREVENT TIPPING.
I5	F&I NEW VISION PANELS. CENTER UNIT BETWEEN EXISTING COLUMNS, V.I.F. RE: SCHEDULES.
I6	F&I NEW BOBRICK #B4112 SOAP DISPENSER & REQUIRED BLOCKING & ACCESSORIES AT SINK. ADA COMPLIANT MOUNTING HEIGHT.
I7	F&I NEW TV WALL MOUNT. PROVIDE FIRE RATED BLOCKING & POWER/DATA. COORDINATE WITH I.T. CONFIRM MOUNTING HEIGHT AND SIZE OF TV WITH OWNER.
I8	PRIME & PAINT NEW & EXISTING WALLS IN AREA OF WORK. COLOR TO BE SELECTED BY ARCHITECT.
I9	F&I NEW WALL TILE FROM COUNTERTOP UP TO UNDERSIDE OF UPPER CABINET/OR UP TO UNDERSIDE OF CEILING WHERE NO CABINET.
I10	F&I NEW VENTILATION EQUIPMENT. RE: MEP SCHEDULES.
I14	WOOD TRIM TO MATCH CABINETRY, TYPICAL.
I15	F&I POWER & ETHERNET FOR NEW COMPUTERS.
I16	PAINTED CABINET DOOR SHOWN HATCHED. COLOR TO BE SELECTED BY ARCHITECT.
I17	F&I UNDERCABINET LIGHTING AT THE UNDERSIDE OF EACH UPPER CABINET. RE: ELECTRICAL DRAWINGS.

Certification

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Checked by Checker
Revised on

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Project

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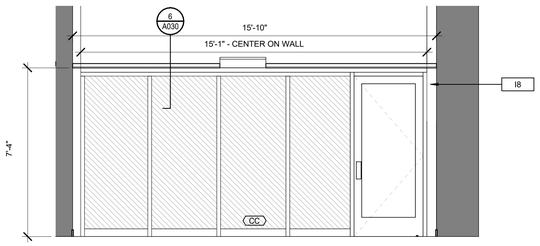
Sheet Contents
ENLARGED MAKERSPACE PLAN AND ELEVATIONS

Project Number. 6846

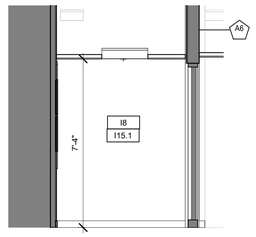
Drawing No.
A300

Sheet of



1 A301 — TYP. STUDY INTERIOR ELEVATION 1

Scale: 3/8" = 1'-0"



2 A301 — TYP. STUDY INTERIOR ELEVATION 2

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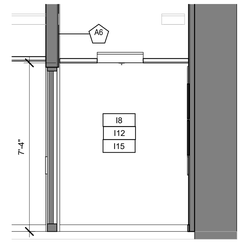
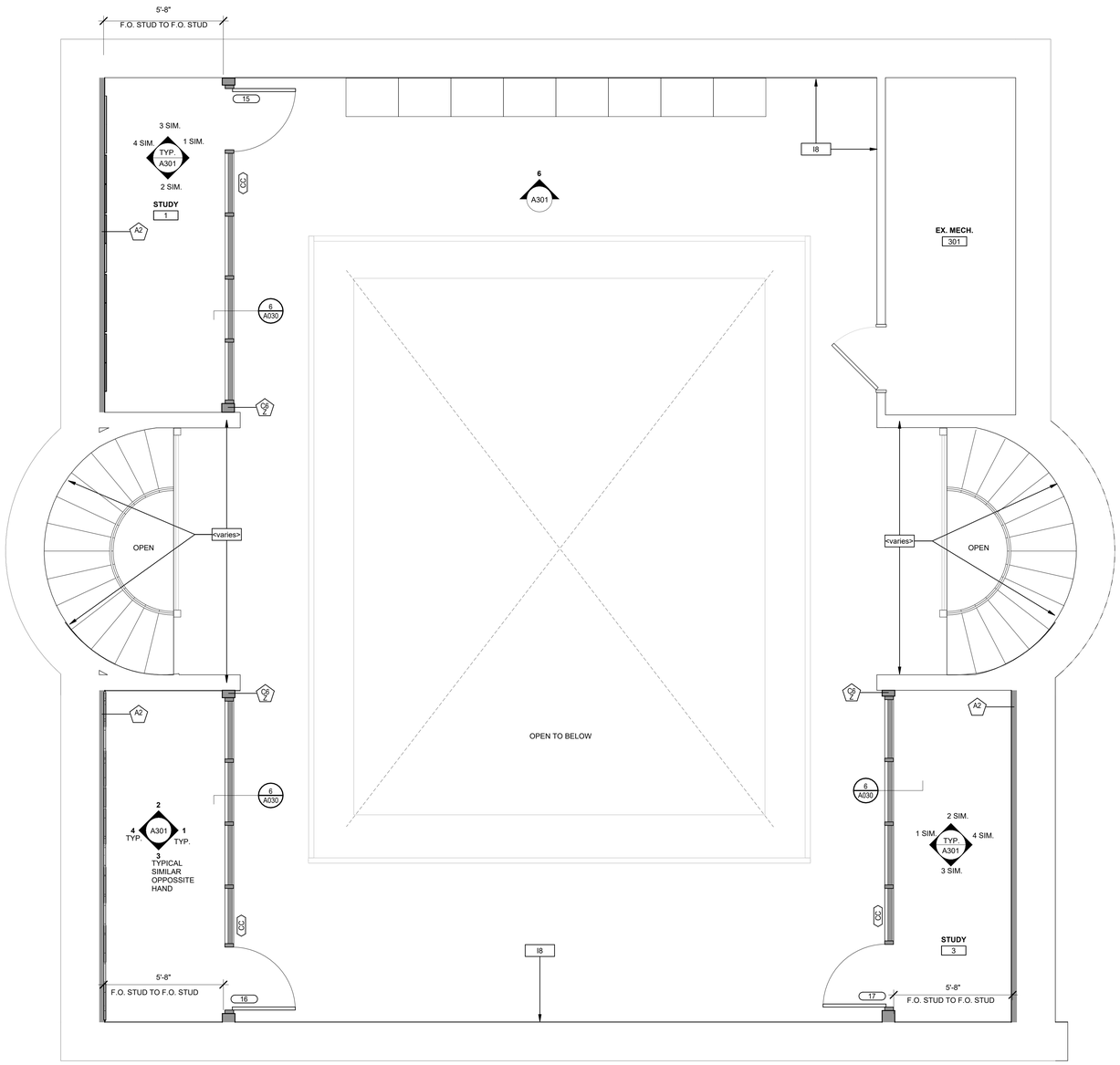


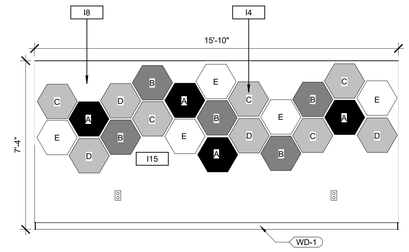
3 A301 — TYP. STUDY INTERIOR ELEVATION 3

Scale: 3/8" = 1'-0"



5 A301 — ENLARGED MEZZANINE PLAN

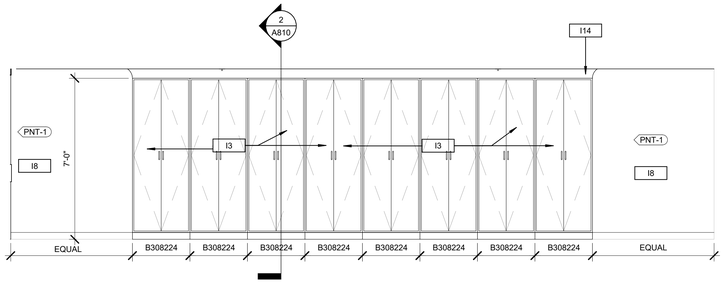
Scale: 3/8" = 1'-0"



4 A301 — TYP. STUDY INTERIOR ELEVATION

Scale: 3/8" = 1'-0"

HEX PANEL SCHEDULE (SEE SPECS)					
	A	B	C	D	E
STUDY 1	LIME (LIM)	JADE (JD)	PETAL(MD026)	GREEN (GN)	SILVER (SIL)
STUDY 2	DENIM (DM)	HIGHSEA(FL012)	PETAL(MD026)	BLUE (BE)	SILVER (SIL)
STUDY 3	GRAPE (GP)	NAVY (NVY)	PETAL(MD026)	CALM (FL001)	SILVER (SIL)



6 A301 — MEZZANINE WEST ELEVATION

Scale: 3/8" = 1'-0"

GENERAL PLAN NOTES

1. COORDINATE ALL WORK WITH PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO CONSTRUCTION ARE TO FACE OF STUD AND / OR FACE OF EXISTING WALL (U.N.O.)
3. ALL DIMENSIONS TO EXISTING WALLS ARE TO FACE OF GYPSUM BOARD U.N.O
4. ALL EXTERIOR WALLS ARE EXISTING TO REMAIN.
5. ALL INTERIOR WALLS ARE TYPE C6Z U.N.O
6. ALL INTERIOR WALLS ARE TO EXTEND TO THE UNDERSIDE OF ROOF &/or FLOOR STRUCTURE ABOVE U.N.O. REFER TO A800 FOR TYPICAL WALL INTERSECTION & TERMINATION DETAILS.
7. ALL DOOR FRAMES AND VISION PANELS SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO JAMB, U.N.O.
8. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:

   FEC EXISTING FIRE EXTINGUISHER CABINET
   FEC-1 EXISTING FIRE EXTINGUISHER RELOCATED
9. FOR FULLY RECESSED FIRE EXTINGUISHER CABINETS THAT ARE LOCATED IN FIRE RATED WALLS, CABINETS ARE TO BE FIRE-RATED U.N.O.
10. REFER TO ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOLS DESCRIPTION.
12. FINAL PAINT COLORS TO BE SELECTED BY ARCHITECT & INSTALLED BY CONTRACTOR.

INTERIOR WORK NOTES

I3	F&I NEW LOCKABLE STORAGE CABINETS, SEE DETAILS. FASTEN TO WALL & FLOOR TO PREVENT TIPPING.
I4	F&I NEW ACOUSTICAL WALL PANELS, COLOR & FINAL DESIGN BY ARCHITECT. PROVIDE BLOCKING & FASTENERS. PRIME & PAINT WALLS BEHIND ACOUSTICAL PANELS. RE: SCHEDULES PLAN WORK NOTES.
I8	PRIME & PAINT NEW & EXISTING WALLS IN AREA OF WORK. COLOR TO BE SELECTED BY ARCHITECT.
I12	PATCH EXISTING DAMAGED CEILING & WALLS. PRIME & PAINT. ARCHITECT TO SELECT PAINT COLOR.
I14	WOOD TRIM TO MATCH CABINETRY, TYPICAL.
I15	F&I POWER & ETHERNET FOR NEW COMPUTERS.
I15.1	

CONSTRUCTION LEGEND

- NEW WALL / ITEM
- EXISTING WALL / ITEM
- F&I = FURNISH AND INSTALL
- XXX — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE / AREA.
- XXX — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- NIC (NOT IN CONTRACT)
- INFILL FLOOR FRAMING & SUB FLOOR CONFIRM DIMENSION IN FIELD
- # — FINSH / MATERIAL TAG

Certification

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Sheet Contents

ENLARGED MEZZANINE

Project Number. 6846

Drawing No.

A301

Sheet of

REVIEW ALL EXISTING SOFFITS. REPAIR / INFILL ALL OPEN SOFFIT JOINTS WITH SEALANT, TYPICAL. PROVIDE A SMOOTH AND EVEN FINISH AT JOINTS. SEALANT COLOR TO MATCH SOFFIT COLOR. REVIEW IN FIELD WITH ARCHITECT.

1 / A500 2006 BUILDING SOFFITS
Scale: NTS

2 / A500 2006 BUILDING ROOF DRAINAGE
Scale: NTS

REVEW ALL EXISTING GUTTERS & DOWNSPOUTS. REPAIR ANY BROKEN OR OPEN JOINTS. SEAL ANY OPEN SOFFIT TO WALL CONNECTIONS THAT ARE 3/4" OR GREATER BY SEALING WITH DYMERIC SEALANT.

REVEW ALL EXISTING GUTTERS / DOWNSPOUTS CONNECTIONS TO PVC PIPE. REPAIR AND / OR REPLACE ANY BROKEN OR OPEN JOINTS. SEAL ANY OPEN JOINTS/ CONNECTIONS, ETC. TYPICAL.

3 / A500 1877 BUILDING ROOF DRAINAGE
Scale: NTS

4 / A500 WINDOW TRIM
Scale: NTS

ADD ALTERNATE 2:
REMOVE ROTTEN OR DETERIORATED SECTIONS OF EXTERIOR WOOD TRIM. FURNISH AND INSTALL NEW WOOD TRIM TO MATCH EXISTING PROFILE. APPLY SEALANT TO ALL WOOD TRIM NEW WOOD TRIM. PRIME AND PAINT TO MATCH EXISTING, TYPICAL.

REVIEW ALL EXISTING HANDRAIL CONNECTIONS. REMOVE BROKEN HANDRAIL COMPONENTS. CORE EXISTING STONE AND USE STRUCTURAL EPOXY TO SET NEW ANCHOR BOLT INTO EXISTING STONE. INJECT LIQUID BON-STONE EPOXY INTO ALL CRACKS

ALL EXISTING EXTEIOR HANDRAILS:
SAND, DEGREASE AND APPLY ZINC RICH PRIMER AND TOP COAT WITH COLD GALVANIZED PAINT.

5 / A500 EXTERIOR HANDRAIL
Scale: NTS

PROVIDE A HIGH PRESSURE WASH TO EXISTING STAIRS. CHIP OUT ANY POOR / BROKEN / SPALLING CONCRETE AND PATCH IN AREA WITH MORTAR REPAIR MATERIAL. APPLY POLYURETHANE TRAFFIC COATING & BROADCAST WITH SAND FOR SLIP RESISTANCE. ARCHITECT TO SELECT COLOR. SEE SPECIFICATION. APPLY POLYURETHANE COATING AND SAND TO STAIRS, LANDING & UP TO FIRST CONTROL JOINT AT THE TOP OF RAMP.

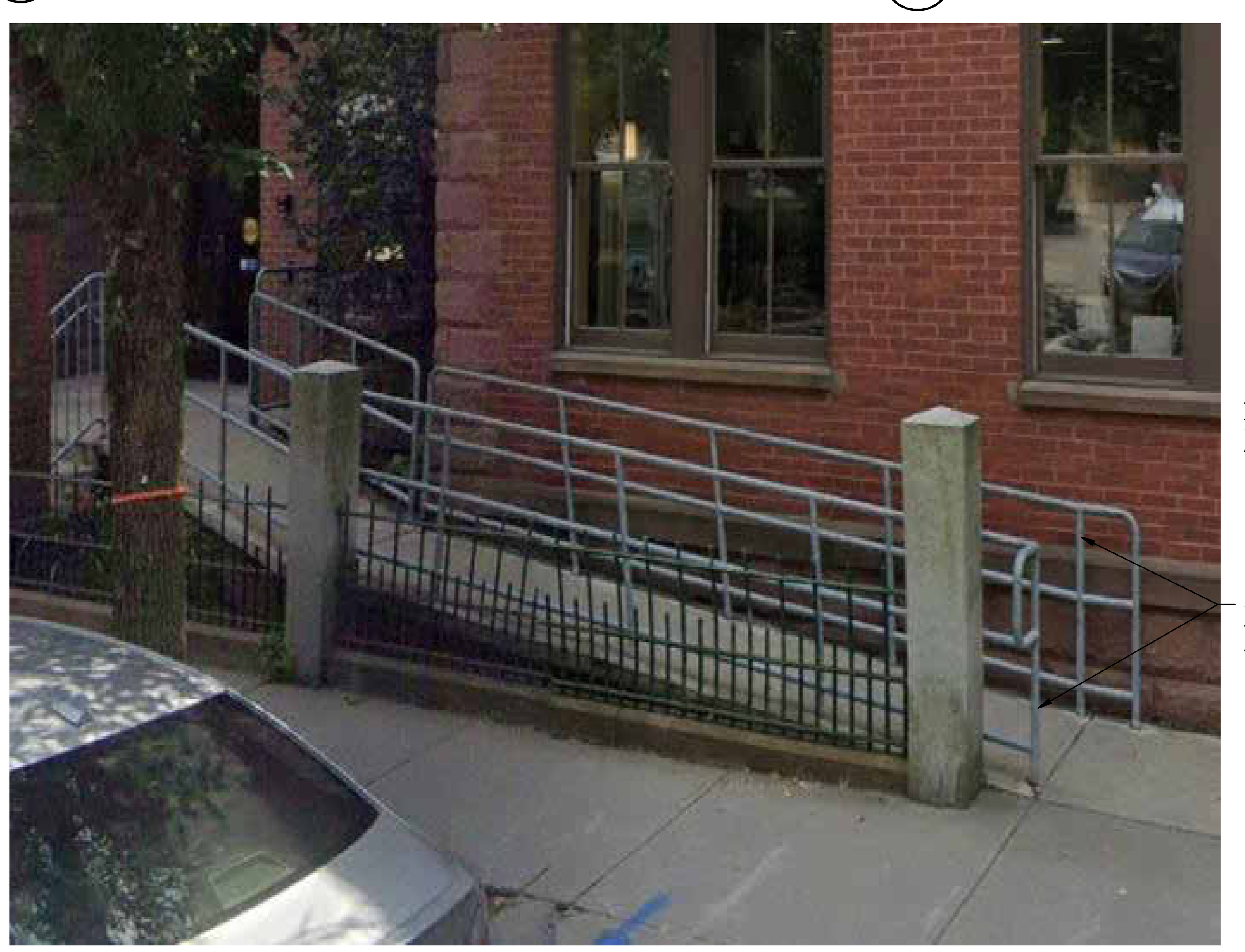
6 / A500 EXTERIOR STAIR
Scale: NTS

1877 BUILDING EXTERIOR SANDSTONE:
LIGHTLY CLEAN & REMOVE ANY LOOSE MATERIAL. TREAT STONE WITH DRY TREAT / LITHOFIN OR SIMILAR TO PREVENT ANY WATER INFILTRATION

7 / A500 EXTERIOR SANDSTONE AT ENTRY
Scale: NTS

ADD ALTERNATE 2:
REMOVE ROTTEN OR DETERIORATED SECTIONS OF EXTERIOR WOOD SILL. FURNISH AND INSTALL NEW WOOD SILL TO MATCH EXISTING PROFILE. APPLY SEALANT TO ALL WOOD TRIM SHALL, PROVIDE A SMOOTH FINISH. SEALANT COLOR TO MATCH PAINT COLOR. NEW WOOD TRIM TO BE PRIMED AND PAINTED TO MATCH EXISTING PAINT COLOR, TYPICAL.

8 / A500 WINDOW SILL
Scale: NTS



GAS SUPPLY AT EXTERIOR NORTH SIDE:
CLEAN EXISTING PIPES AND PAINT PIPES WITH HIGH PERFORMANCE EPOXY PAINT.

SAND, DE-GREASE AND APPLY ZINC RICH PRIMER AND TOP COAT WITH COLD GALVANIZING PAINT AT EXISTING RAMP RAILING.

9 / A500 EXTERIOR RAMP
Scale: NTS

10 / A500 GAS PIPING
Scale: NTS

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Sheet Contents
EXTERIOR DETAILS

Project Number. 6846

Drawing No. A500

Sheet of

RCP WORK NOTES

RCP1	F&I SUSPENDED ACT ASSEMBLY AND GRID. RE: RCP FOR HEIGHT. RE: FINISHES FOR MORE INFORMATION.
RCP2	EXISTING GYPSUM BOARD CEILING, &/or SOFFIT. PATCH, PRIME & PAINT, ARCHITECT TO SELECT COLOR.
RCP3	EXISTING SPRINKLER HEADS RELOCATED TO SUIT NEW LAYOUT. COORDINATE WITH FIRE PROTECTION DRAWINGS.
RCP4	F&I LIGHT FIXTURE, COORD. w/ SECTIONS FOR MOUNTING HEIGHTS AS REQUIRED. RE: ELEC DWGS TYP.
RCP5	F&I MECHANICAL FIXTURES, GRILLS, AND ACCESSORIES. RE: ELEC DWGS & MECH DWGS, TYP.
RCP7	F&I NEW ACOUSTICAL CEILING TILES IN EXISTING CEILING GRID. REPLACE ONLY WET/STAINED ACOUSTICAL CEILING TILES WITH NEW TO MATCH EXISTING/SALVAGED CEILING TILES. (THIRD-FLOOR READING AND BOOKSTACK AREA, SECOND & THIRD FLOOR BATHROOMS- APPROXIMATELY 110 CEILING TILES TO BE REPLACED - G.C. TO CONFIRM).
RCP8	SAND INTERIOR FACE OF EXISTING ROOF HATCH AND SURROUNDING TRIM. PRIME & PAINT.
RCP9	EXISTING CEILING REGISTERS RELOCATED. REFLECTED CEILING WORK NOTES
RCP11	F&I NEW SPRINKLER HEAD. SEE FIRE PROTECTION DRAWINGS. REFLECTED CEILING WORK NOTES
RCP12	EXISTING SPRINKLER PENDANT / SIDEWALL SPRINKLER HEAD TO REMAIN. SEE MECHANICAL DRAWINGS. REFLECTED CEILING WORK NOTES

REFLECTED CEILING PLAN NOTES

1. NOT ALL CEILING MOUNTED &/or SUSPENDED ITEMS, COMPONENTS, &/or WORK MAY BE SHOWN. CONTRACTOR TO COORDINATE w/ ALL DRAWINGS INCLUDING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY ADDITIONAL ITEMS &/or DISCREPANCIES BEFORE STARTING WORK.
2. ALL CEILING MOUNTED ITEMS ARE TO BE CENTERED IN CEILING TILES U.N.O.
3. SPRINKLER HEAD LAYOUT IS APPROXIMATE AND NOT ALL HEADS MAY BE SHOWN. COORDINATE w/ SPRINKLER DRAWINGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
4. PROVIDE WHITE GROMMET TRIM AT ALL SUPPORT CABLE &/or WIRING PENETRATIONS FOR SUSPENDED ELEMENTS.

CONSTRUCTION LEGEND

NEW WALL / ITEM

EXISTING WALL / ITEM

F&I = FURNISH AND INSTALL

\# WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.

\# WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

SAT 9'-0"

CEIING FINISH

HEIGHT OF CEILING ABOVE FINISH FLOOR

REFLECTED CEILING PLAN LEGEND

GYPSUM BOARD SOFFIT OR GYPSUM BOARD CEILING

CEILING TILE & GRID

2X2 CEILING LIGHT COORDINATE W/ ELEC. DWGS

NEW LIGHT FIXTURE COORDINATE W/ ELEC. DWGS

EXISTING EXIT SIGN

SPRINKLER HEAD COORDINATE W/ PLUMB. / SPRINKLER DWGS

CEILING MOUNTED HVAC TERMINAL. SIZE VARIES. SEE MECHANICAL DRAWINGS

S SMOKE DETECTOR COORDINATE W/ ELEC. DWGS

OC OCCUPANCY SENSOR. COORDINATE W/ ELEC. DWGS

CEILING MOUNTED HVAC SUPPLY DIFFUSER COORDINATE W/ ELEC. DWGS

CEILING MOUNTED HVAC RETURN DIFFUSER COORDINATE W/ ELEC. DWGS

1 A600 THIRD FLOOR RCP

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

PLAN NORTH

Certification

DAVID L. DeQUATTRO No. 2152 REGISTERED ARCHITECT 4/18/25

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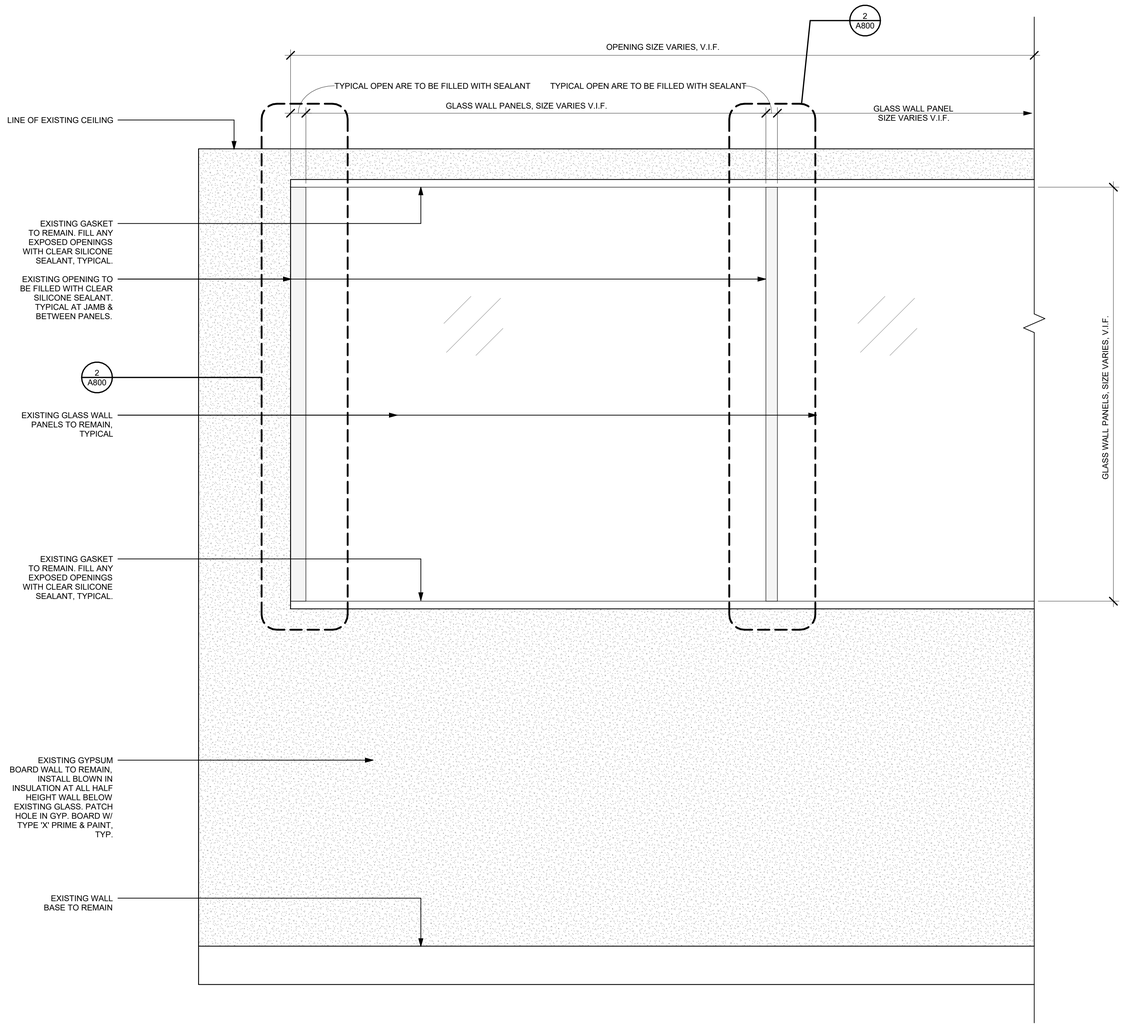
Sheet Contents

REFLECTED CEILING PLANS

Project Number. 6846

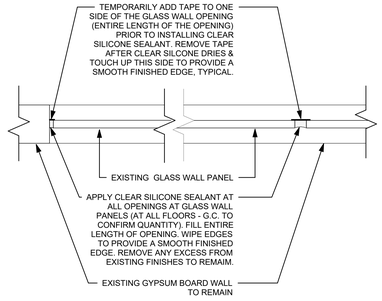
Drawing No. A600

Sheet of



1 A800 TYPICAL GLASS WALL DETAIL - ELEVATION VIEW

Scale: 1 1/2" = 1'-0"



2 A800 TYPICAL GLASS WALL DETAIL - PLAN VIEW

Scale: 1 1/2" = 1'-0"

Certification

DAVID L. DACHIATTINO
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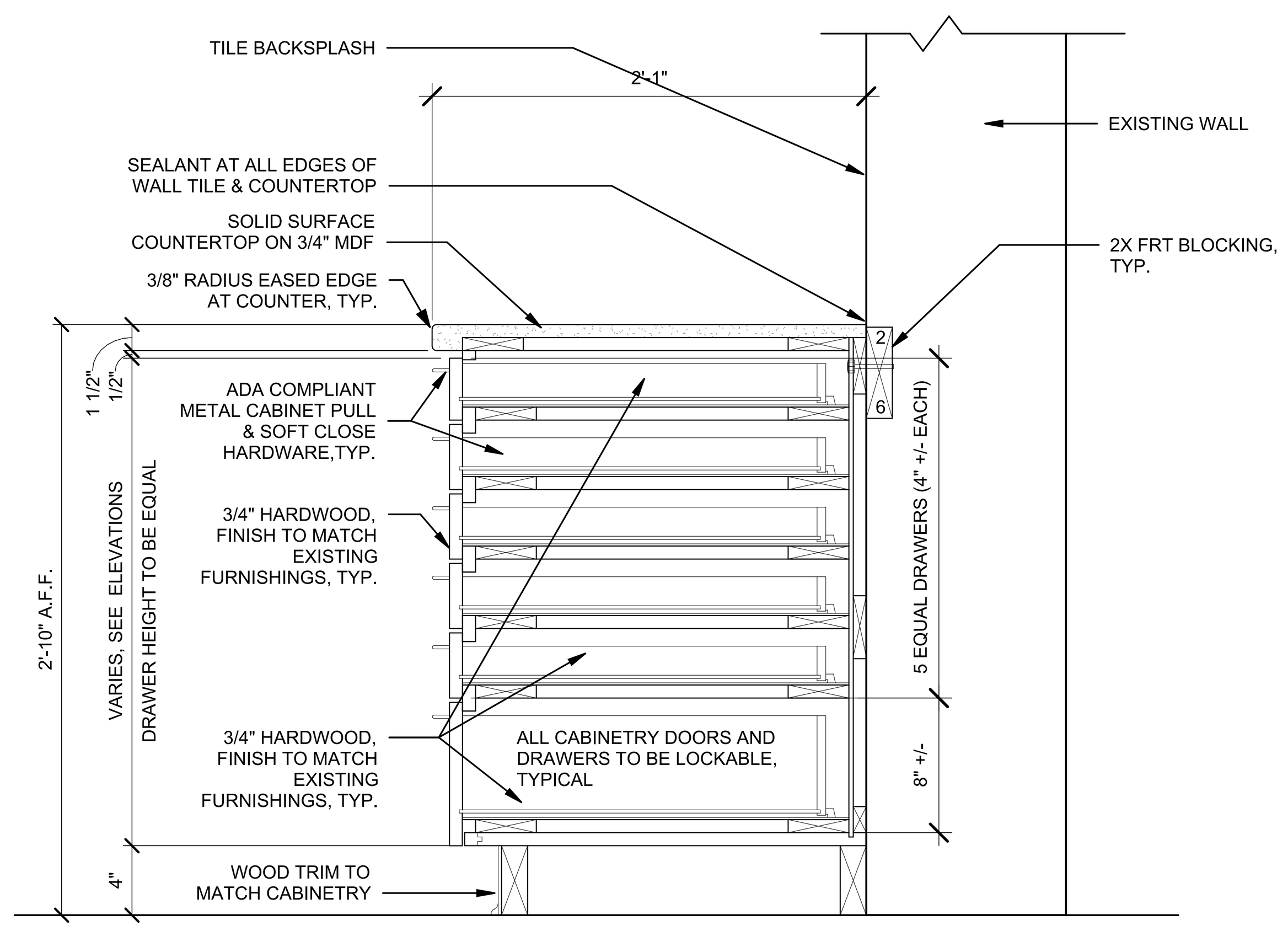
TYPICAL INTERIOR DETAILS

Project Number. 6846

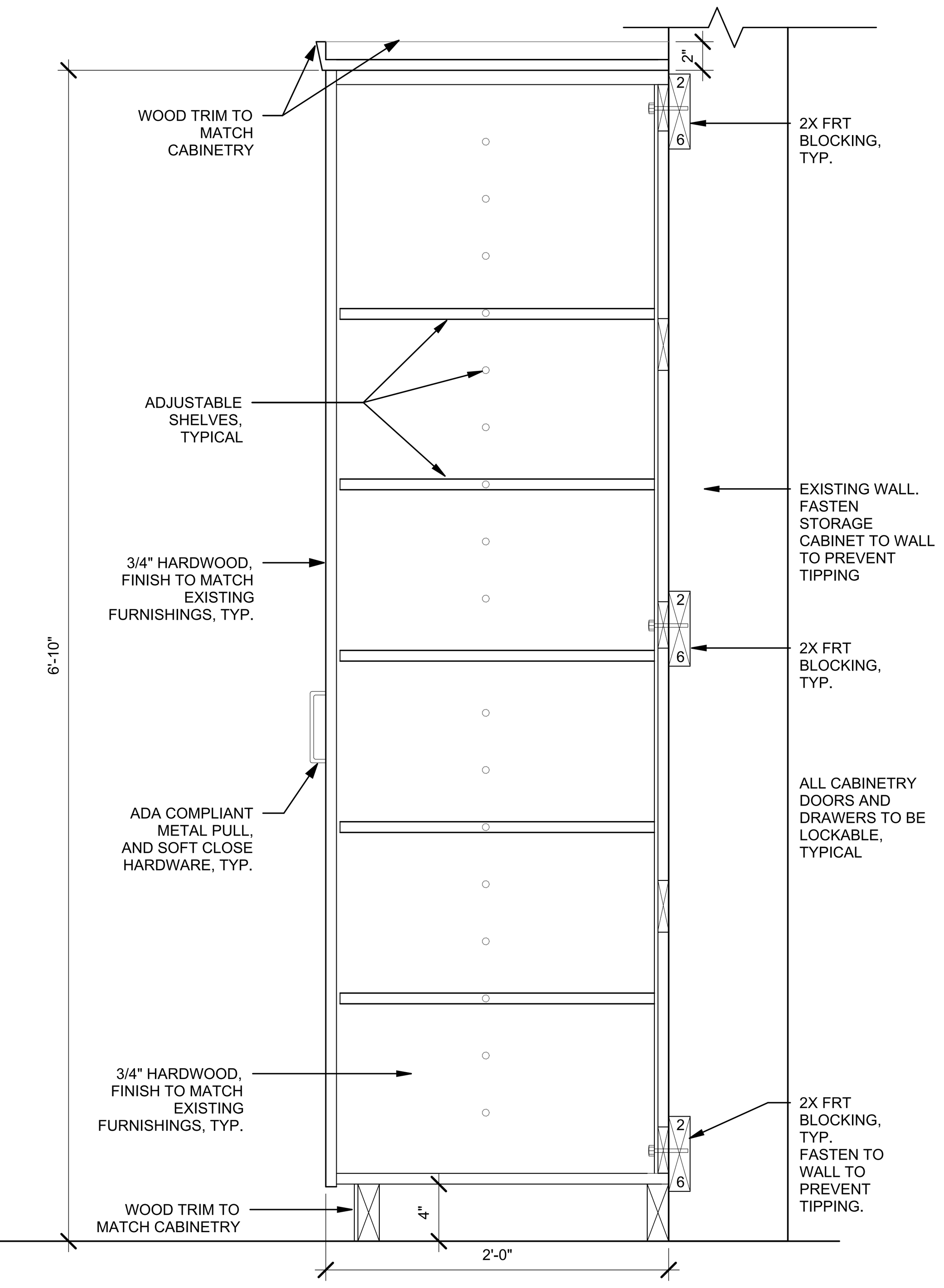
Drawing No.

A800

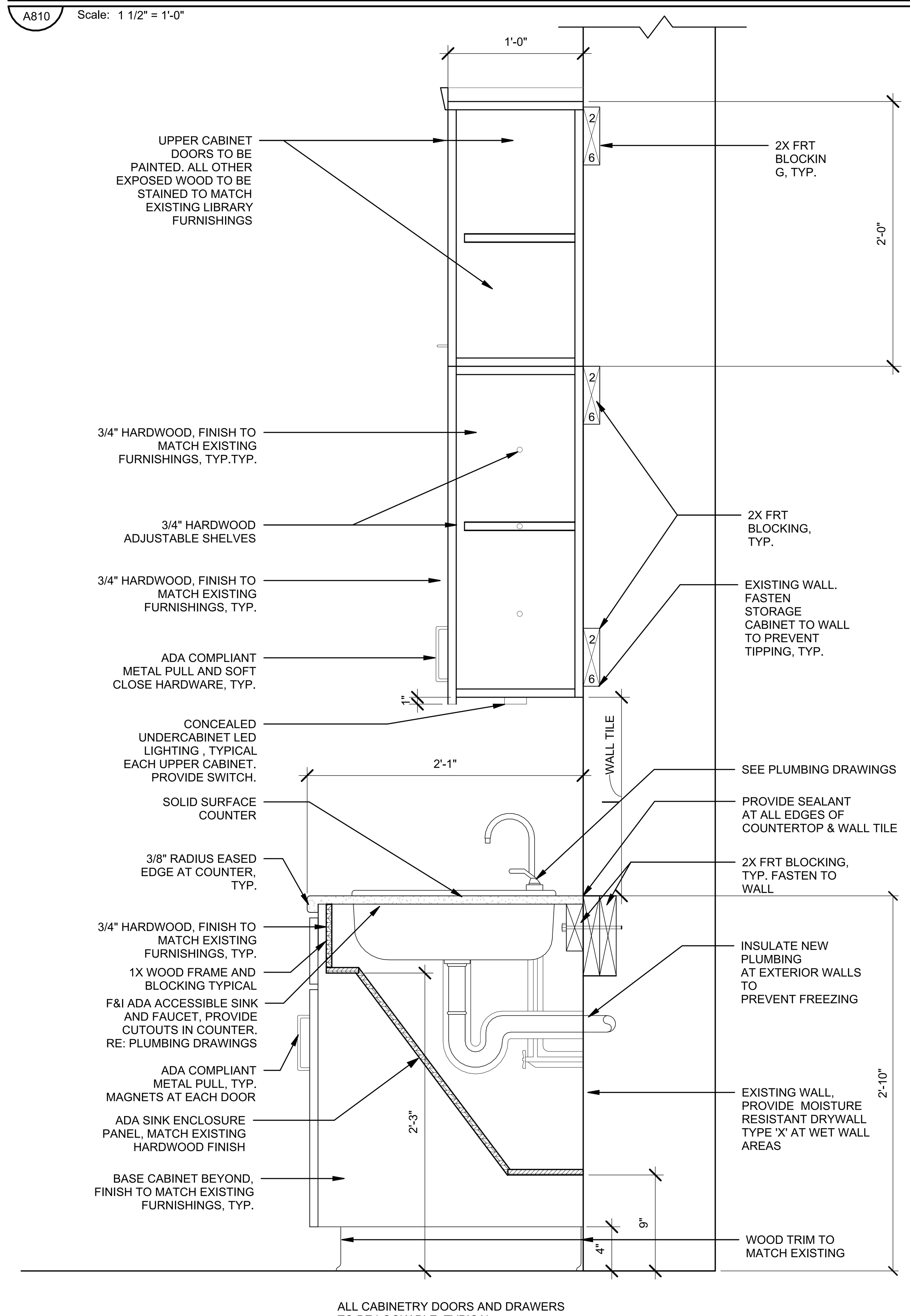
Sheet of



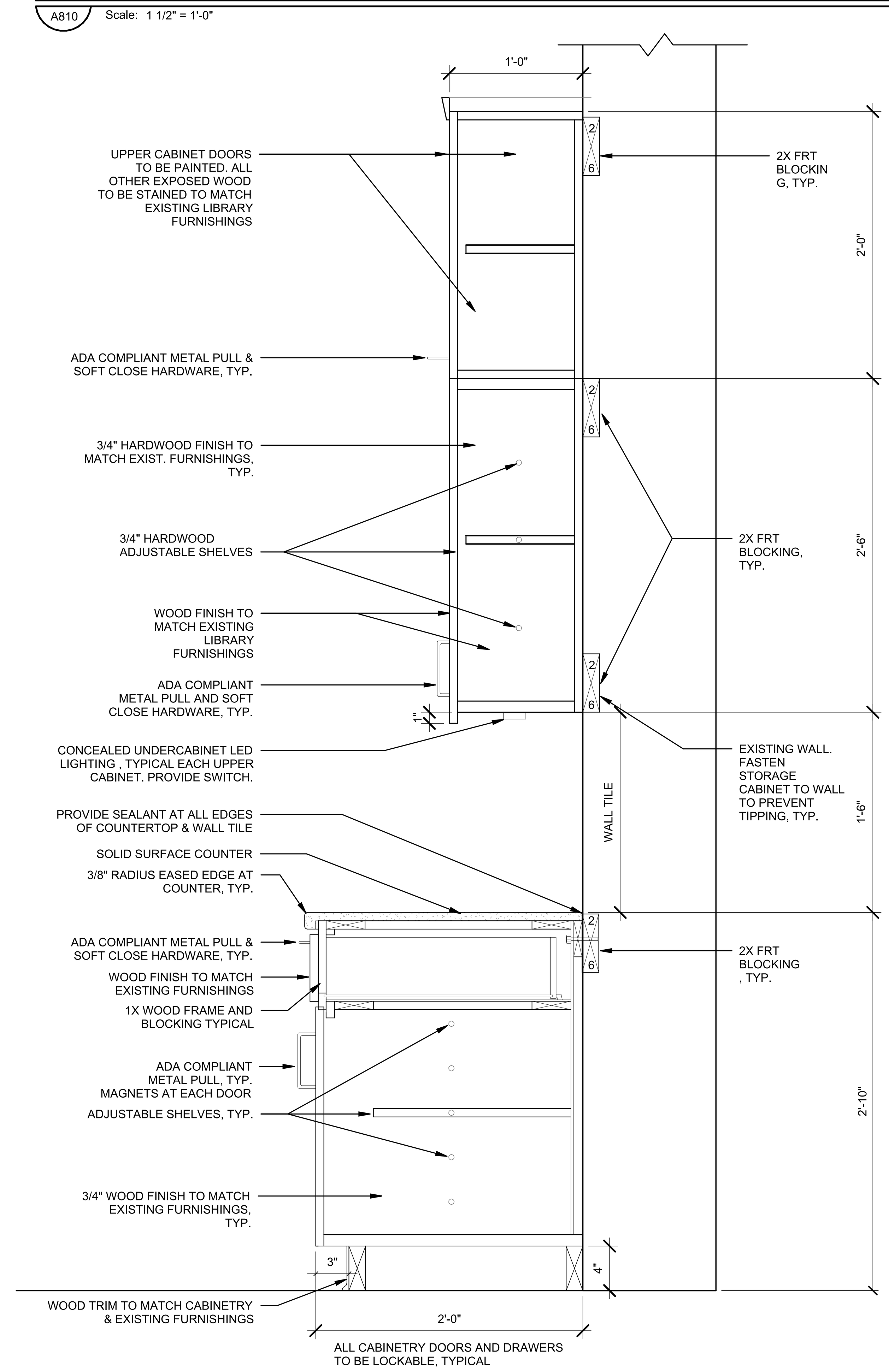
1 DRAWER BASE CABINET CASEWORK
A810 Scale: 1 1/2" = 1'-0"



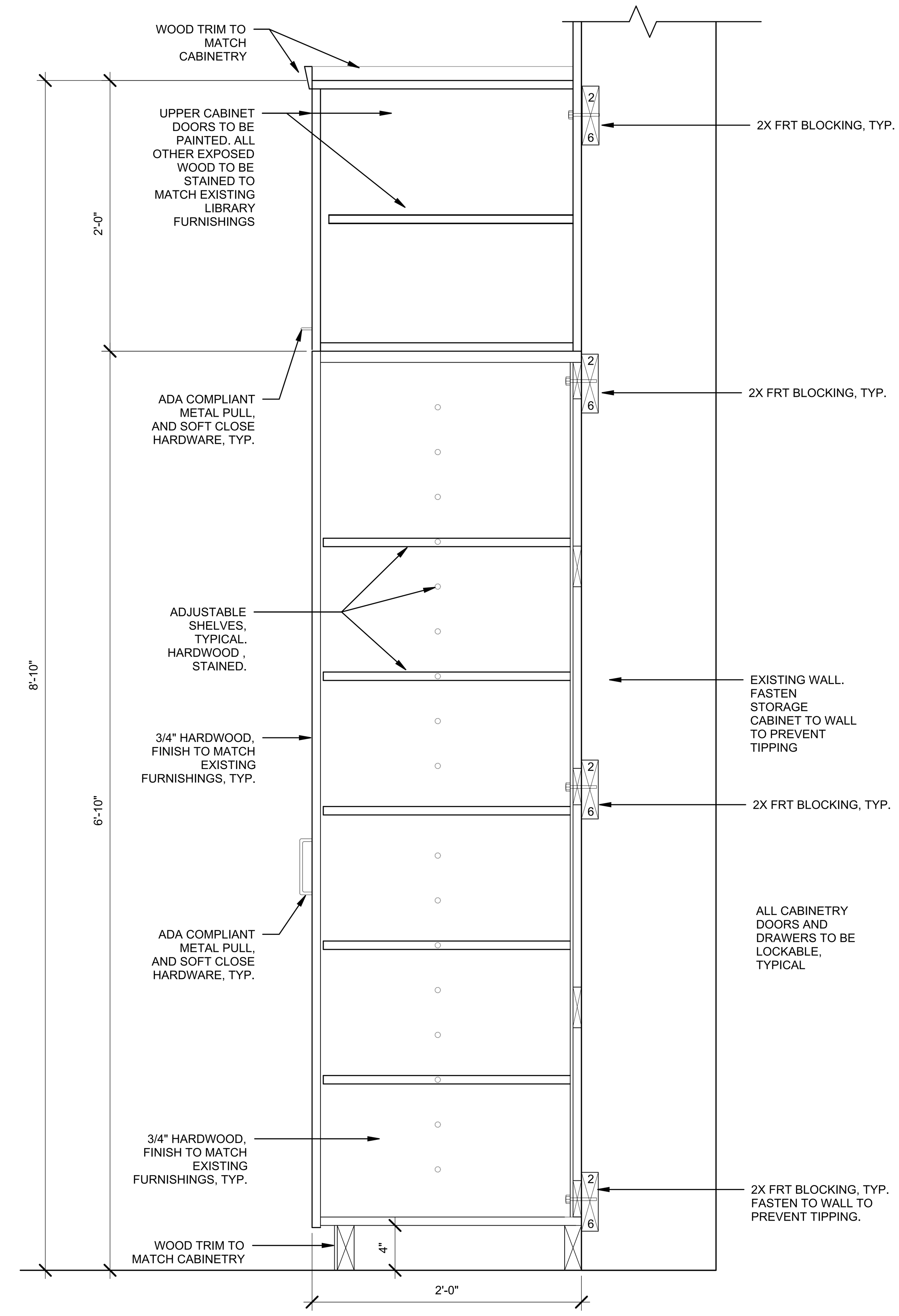
2 MEZZANINE STORAGE CABINET CASEWORK
A810 Scale: 1 1/2" = 1'-0"



3 SINK BASE CASEWORK
A810 Scale: 1 1/2" = 1'-0"



4 BASE CABINET CASEWORK
A810 Scale: 1 1/2" = 1'-0"



5 MAKER SPACE STORAGE CABINET CASEWORK
A810 Scale: 1 1/2" = 1'-0"

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Sheet Contents
INTERIOR CASEWORK DETAILS

Project Number. 6846

Drawing No. A810

Sheet of

ROOM FINISH SCHEDULE

ROOM #	ROOM DESCRIPTION	CEILING	WALLS				BASE	FLOOR	REMARKS
			NORTH	EAST	SOUTH	WEST			
1	STUDY	ACT	PNT-3	PNT-3	PNT-3, ACOUSTIC WALL PANELS	PNT-3	WOOD BASE, MATCH EXISTING	CPT-2	
2	STUDY	ACT	PNT-4	PNT-4	PNT-4, ACOUSTIC WALL PANELS	PNT-4	WOOD BASE, MATCH EXISTING	CPT-2	
3	STUDY	ACT	PNT-5, ACOUSTIC WALL PANELS	PNT-5	PNT-5	PNT-5	WOOD BASE, MATCH EXISTING	CPT-2	
4	STUDY	EXIST.					EXIST.	EXIST.	
5	STUDY	EXIST.					EXIST.	EXIST.	
9	READING ROOM	EXIST.					EXIST.	EXIST.	
9	READING ROOM	EXIST.					EXIST.	EXIST.	
18	STAIR C	ACT, GYPSUM BOARD PAINT	PNT-6	PNT-6	PNT	PNT-7	RST-1	RUBBER TREADS	
19	STAIR D	ACT, GYPSUM BOARD PAINT	METAL RAILING, PNT-7	PNT-6	PNT-6	PNT-6	RST-1	RUBBER TREADS	
32	STAIR A	EXIST.					EXIST	EXIST.	
33	VESTIBULE	EXIST.	PNT	PNT	PNT	PNT	EXIST.	EXIST.	
101	WEST. VEST.								
102	LOBBY								
104	ELEV. MECH.								
105	COMMON AREA								
106	GALLERY								
106B	ELECTRICAL								
107	ELEC. CLST								
108B	CLOSET								
109	MECH.								
110	STAFF LOUNGE								
111	TOILET								
112	JAN.								
113	ADMIN. LOBBY								
114	PROGRAMMING COORD. OFFICE								
115	OFFICE								
116	TECH COORD. OFFICE								
117	MEETING ROOM								
118	KITCHENETTE								
119	MECH.								
119A	TELE.								
120A	CLOSET								
120B	JAN.								
121	MEN'S TOILET								
122	WOMEN'S TOILET								
123	JAN.								
124	FAMILY TOILET								
125	CHILDREN'S ROOM								
127	STORAGE CLOSET								
128	CLASSROOM								
135	ELEV. LOBBY								
201	BOOK STACKS	EXIST.					EXIST.	EXIST.	
202	READING & BOOKS	EXIST.					EXIST.	EXIST.	
203	DIRECTOR'S OFFICE	EXIST.					EXIST.	EXIST.	
204	ASSIST. DIRECTOR OFFICE	EXIST.					EXIST.	EXIST.	
205	EAST VESTIBULE	EXIST.					EXIST.	EXIST.	
206	MAIN LOBBY								
207	TEEN ROOM	EXIST.					EXIST	EXIST.	
208	OFFICE	EXIST.					EXIST.	EXIST.	
209	STAFF WORK	EXIST.					EXIST.	EXIST.	
209A	ELEC.	EXIST.					EXIST	EXIST.	
210	BATHROOM	EXIST.					EXIST	EXIST.	
211	BATHROOM	EXIST.					EXIST.	EXIST.	
212	STAIRS								
212	JAN.								
214	ELEVATOR								
215	STAIRS								
300	MEZZANINE	ACT, GB SOFFIT PAINT	PNT-6, PNT-7 (COLUMNS AND RAILINGS)	PNT-6	PNT-6	PNT-6	WOOD BASE, MATCH EXISTING	CPT-2	
301	EX. MECH.	EXIST.					EXIST.	EXIST.	
302	QUIET STUDY EAST	EXIST.					EXIST.	EXIST.	
303	CONFERENCE ROOM	EXIST.					EXIST.	EXIST.	
304	OFFICE	EXIST.					EXIST.	EXIST.	
305	STAFF WORK	EXIST.					EXIST.	EXIST.	
305A	JANITOR	EXIST.					EXIST	EXIST.	
306	CIRCULATION								
307	BATHROOM	EXIST.					EXIST.	EXIST.	
308	BATHROOM	EXIST.					EXIST.	EXIST.	
309	BOOK STACKS	EXIST.	PNT-1			PNT-1	EXIST	EXIST.	
310	MAKERSPACE	ACT	PNT-2	PNT-1	PNT-1	PNT-1	WOOD BASE, MATCH EXISTING	LVT-1	
A	STAIR	EXIST.					EXIST.	EXIST.	
A	STAIR	EXIST.					EXIST.	EXIST.	
B	STAIR	EXIST.					EXIST.	EXIST.	
B	STAIR	EXIST.					EXIST.	EXIST.	
C	STORAGE								
C	STORAGE								
D	STORAGE								
EL-1	ELEVATOR								
EL-1	ELEVATOR								
F	STORAGE								

MATERIALS SCHEDULE

TAG	DESCRIPTION
ACT	ACOUSTICAL CEILING TILE
AWC-1	ACOUSTICAL WALL COVERING
AWP-1	ACOUSTICAL WALL PANELS
CPT-1	CARPET TILES
CPT-2	<varies>
EXIST.	EXISTING FINISH TO REMAIN
GF-1	GLAZING FILM
GWB-1	GB CEILING. PRIME & PAINT.
LVT-1	LUXURY VINYL TILES, TYPE 1 SEE SPECS
PNT-1	GWB, PRIME & PAINT. PAINT COLOR 1
PNT-2	GWB, PRIME & PAINT. PAINT COLOR 2
PNT-3	GWB, PRIME & PAINT. PAINT COLOR 3
PNT-4	GWB, PRIME & PAINT. PAINT COLOR 4
PNT-5	GWB, PRIME & PAINT. PAINT COLOR 5
PNT-6	GWB, PRIME & PAINT. PAINT COLOR 6
RB-1	RUBBER STAIR TREADS AND RISERS
SF-1	STOREFRONT RE:SCHEDULE
SS-1	SOILD SURFACE
T-1	WALL TILES
TS-1	TRANSITION STRIP
TS-2	TRANSITION STRIP
WB	GWB, PRIME & PAINT. PAINT COLOR 1
WB-1	WOOD BASE
WT-1	WINDOW TREATMENT

REMARK NOTES:

1. PROVIDE ACCESSIBLE ROOM SIGNAGE WITH BRAILLE AT NEW AND EXISTING ROOMS THAT DO NOT HAVE ACCESSIBLE SIGNAGE (TYPICAL ALL FLOORS). G.C. TO CONFIRM QUANTITY IN FIELD.
2. ALL MILLWORK AND CABINETRY, REFER TO SPECIFICATION AND INTERIOR ELEVATIONS.
3. SOFT CLOSE HARDWARE FOR ALL MILLWORK CABINETRY DOORS AND DRAWERS.
4. COORDINATE POWER, PLUMBING AND MECHANICAL, LIFE SAFETY AND FIRE SUPPRESSION REQUIREMENTS WITH MEP NEW WORK PLANS.

GENERAL NOTES

1. REFER TO SHEET:
   - G001 FOR SYMBOLS AND ABBREVIATIONS
   - A901 FOR FINISH PLAN
   - A902 FOR FURNITURE PLAN
   - A903 FOR EQUIPMENT PLAN
   - A910 FOR DOOR SCHEDULE & GLAZING SCHEDULE
2. G.C. SHALL SUBMIT MANUFACTURER'S COLOR SELECTION FOR ALL SPECIFIED MATERIALS. (COLOR SCHEDULE TO BE COMPLETED UPON RECEIPT AND APPROVAL OF ALL SPECIFIED FINISHES)
3. G.C. SHALL INSTALL FRT WOOD BLOCKING AT ALL AREAS INDICATED TO RECEIVE WALL MOUNTED ITEMS, CABINETRY, SHELVING, AND ACCESSORIES, ETC.
4. ALL SPECIFIED FINISHES SHALL BE CONTINUOUS BEHIND ALL MOUNTED OR APPLIED ITEMS.
5. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS. COORDINATE WITH MEP, LIFE SAFETY & FIRE PROTECTION DRAWINGS.
6. CONFIRM WITH INSTALL DIRECTION WITH ARCHITECT.
7. ALL RUBBER BASE WILL BE COVED..
8. PAINT ALL EXPOSED DUCTS, CONDUITS, PIPING, ETC, NOT CONCEALED BY ROOM FINISHES. COORDINATE WITH MEP DRAWINGS
9. GC AND VENDORS SHALL DETERMINE AVAILABILITY OF ALL FINISH MATERIALS. ANY DELIVERY SCHEDULE THAT POTENTIALLY MAY CAUSE COORDINATION PROBLEMS DURING THE FINAL STAGES OF CONSTRUCTION / INSTALLATION SHALL BE BROUGHT TO ATTENTION OF RGB, EARLY ON, FOR POSSIBLE REEVALUATION OF MATERIAL DESIGNATION. THE LACK OF A TIMELY ORDER DOES NOT CONSTITUTE A RE-SELECTION.
10. A MINIMUM QUANTITY OF TWO (2) 1'-0" X 1'-0" FINISH SAMPLES OF ALL SPECIFIED FINISHES SHALL BE PROVIDED FOR APPROVAL PRIOR TO ORDERING.
11. REFER TO ELECTRICAL DRAWINGS FOR LOCATION AND MOUNTING HEIGHTS OF ALL FIRE ALARM DEVICES.
12. GC SHALL ASSURE THAT NO ELECTRIC RECEPTACLE OR TELECOMMUNICATIONS OUTLET COVERPLATES HAVE BEEN INSTALLED PRIOR TO COMPLETION OF APPLICATION OF ANY WALL FINISH MATERIALS. ANY SUCH COVERPLATES OR SURFACE HARDWARE, ETC., IN PLACE, SHALL BE REMOVED PRIOR TO WALL FINISH APPLICATION.
13. UPON COMPLETION OF FINISH PHASE OF JOB, GC SHALL REMOVE ALL PAINT, ETC., FROM WHERE IT HAS SPILLED, SPLASHED, OR SPATTERED.
14. ALL FINISH FLOORING MATERIAL INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATION. SEAMS SHALL BE TIGHT / INVISIBLE. GC SHALL PROVIDE AND MAINTAIN ADEQUATE PROTECTION FOR ALL NEWLY INSTALLED FLOORING MATERIALS FOR THE DURATION OF CONSTRUCTION AND REMOVE PROTECTION ONLY IMMEDIATELY BEFORE JOB COMPLETION, FLOOR WILL BE THOROUGHLY CLEANED OF ALL ADHESIVE, GROUT, CONSTRUCTION STAINS, ETC.
15. GC IS RESPONSIBLE FOR ALL FLASH PATCHING AND TO HAVE FLOOR IN CONDITION TO RECEIVE NEW FLOORING MATERIALS.
16. GC, ALL VENDORS / SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS, QUANTITIES ETC., OF THEIR RESPECTIVE WORK.
17. FOR FLOOR MATERIAL CHANGE LOCATIONS, RE: FLOOR PLANS &/OR FLOOR FINISH PLANS
18. CARPET SUPPLIER/INSTALLER SHALL PROVIDE CURRENT STOCK SAMPLES OF SPECIFIED CARPET FINISHES FOR APPROVAL PRIOR tO ORDERING. PROVIDE TRANSITION STRIPS AS SPECIFIED OR NECESSARY (VINYL, IF NOT SPECIFIED
19. CARPET CONTRACTOR TO SUBMT SEAMING DIAGRAMS FOR APPROVAL
20. NOT ALL WALL OBJECTS MAY BE SHOWN. COORDINATE WITH MECH; PLUMBING;ELECTRICAL DRAWINGS ALSO REFER ARCHITECTURAL DWGS & SPECIFICATIONS FOR ADDITIONAL ITEMS
21. INSULATE ALL EXPOSED PIPES & SINK BOTTOM WITH TRAP WRAP PROTECTIVE KIP #500R-MA A, AS MFR'D BY BROCAR PRODUCTS (1-8900-827-1207), OR ARCHITECT APPROVED EQUAL
22. PROVIDE WATER RESISTANT CEMENT BOARD @ ALL WET WALLS (NEW OR EXISTING).
23. PROVIDE INSULATE AT ALL EXPOSED PIPES & SINK BOTTOM WITH TRAP WRAP PROTECTIFE KIP # 500R-MA A, AS MFR'D BY BROCAR PRODUCTS (1-8900-827-1207), OR ARCHITECT APPROVED EQUAL
24. PROVIDE SPLASH TRIM AT ALL WALLS ADJACENT TO COUNTER TOPS. TYPICAL
25. PROVIDE BASE FINISH AT TOE KICKS OF ALL CABINETRY WITH SINKS.
26. PROVIDE BASE FINISH AT ALL FINISH CABINETRY END PANELS.
27. PAINT ALL EXPOSED CONDUITS, JUNCTION BOXES ETC.
28. PAINT FIRE ALARM BOXES RED
29. BASIS OF DESIGN FOR ALL INTERIOR PAINT:

    GYPSUM DRYWALL SYSTEM (EXCEPT CEILINGS):
    1ST COAT - SW PROMAR 200 ZERO VIC INTERIOR LATEX PRIMER, B28 SERIES
    2ND COAT - SW PROMAR 200 ZERO VOC INTERIOR LATEX EG-SHEL B20 SERIES
    3RD COAT - SW PROMAR 200 HP ZERO VOC INTERIOR LATEX EG-SHEL B20 SERIES

    FERROUS METALS: (FOR ALL EXPOSED TO VIEW METAL, IN FINISHED ROOMS, INCLUDING GRILLES, DIFFUSERS, PIPING, DUCTS, CONDUIT, METAL DOORS AND FRAMES AND MISCELLANEOUS METALS. WHEN CONCEALED FROM VIEW AND IN MECHANICAL EQUIPMENT ROOMS, SPOT PRIME, ONLY):
    1ST COAT - SW PRO CRYL PRIMER, B66 SERIES
    2ND COAT - SW PRO INDUSTRIAL PRE CATALYZED EPOXY EG-SHEL, K45 SERIES
    3RD COAT - SW PRO INDUSTRIAL PRE CATALYZED EPOXY EG-SHEL, K45 SERIES

    DRYWALL CEILINGS:
    FLAT FINISH: (4 MILS WET, 1.6 MILS DRY PER COAT)
    1ST COAT - SW PROMAR 200 ZERO VIC INTERIOR LATEX PRIMER, B28 SERIES
    2ND COAT - SW PROMAR CELING PAINT, A27 SERIES
    3RD COAT - SW PROMAR CEILING PAINT, A27 SERIES

    GALVANIZED/ZINC COATED METAL: (FOR ALL EXPOSED TO VIEW METAL, IN FINISHED ROOMS, INCLUDING DUCTS, CONDUIT, GRILLES, DIFFUSERS, MISCELLANEOUS METALS):
    SEMI-GLOSS FINISH: (4 MILS WET, 1.6 MILS DRY PER COAT)
    1ST COAT - SW PROCRYL UNIVERSAL PRIMER, B66-310 SERIES (110 G/L)
    2ND COAT - SW PROMAR 200 HP ZERO VOC INTERIOR LATEX SEMI-GLOSS, B31 SERIES (0 VOC)
    3RD COAT - SW PROMAR 200 HP ZERO VOC LATEX SEMI-GLOSS, B31 SERIES (0 VOC)

    ALUMINUM: (FOR ALL EXPOSED TO VIEW ITEMS, INCLUDING GRILLES, DIFFUSERS, LOUVERS, DUCTS, CONDUIT AND MISCELLANEOUS ITEMS NOT PREFINISHED):
    SEMI-GLOSS FINISH (4 MILS WET, 1.6 MILS DRY PER COAT)
    1ST COAT - SW PROCRYL UNIVERSAL PRIMER, B66-310 SERIES (110 G/L)
    2ND COAT - SW PROMAR 200 HP ZERO VOC LATEX SEMI-GLOSS, B31 SERIES (0 VOC)
    3RD COAT - SW PROMAR 200 HP ZERO VOC LATEX SEMI-GLOSS, B31 SERIES (0 VOC)

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FINISH SCHEDULE

Project Number. 6846

Drawing No. A900

Sheet of

FINISH FLOOR PLAN LEGEND

NEW WALL / ITEM

EXISTING WALL / ITEM

F&I = FURNISH AND INSTALL

— WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.

— WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

— FINSH / MATERIAL TAG

DIRECTION OF FLOOR PATTERN INSTALLATION

FLOORING TRANSITION

LVT-1 (BASE BID)

CPT-1 (ADD ALTERNATE)

CPT-2 (ADD ALTERNATE)

GENERAL NOTES

1. COORDINATE ALL NEW WORK WITH PLUMBING, MECHANICAL, ELECTRICAL, &/OR OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. OUTLET & RECEPTACLE COVERS ARE TO BE WHITE FINISH AS BASIS OF DESIGN. CONSULT WITH ARCHITECT FOR FINAL COLOR SELECTION.
3. COORDINATE ALL INTERIOR FINISHES WITH INTERIOR FINISH SCHEDULE.

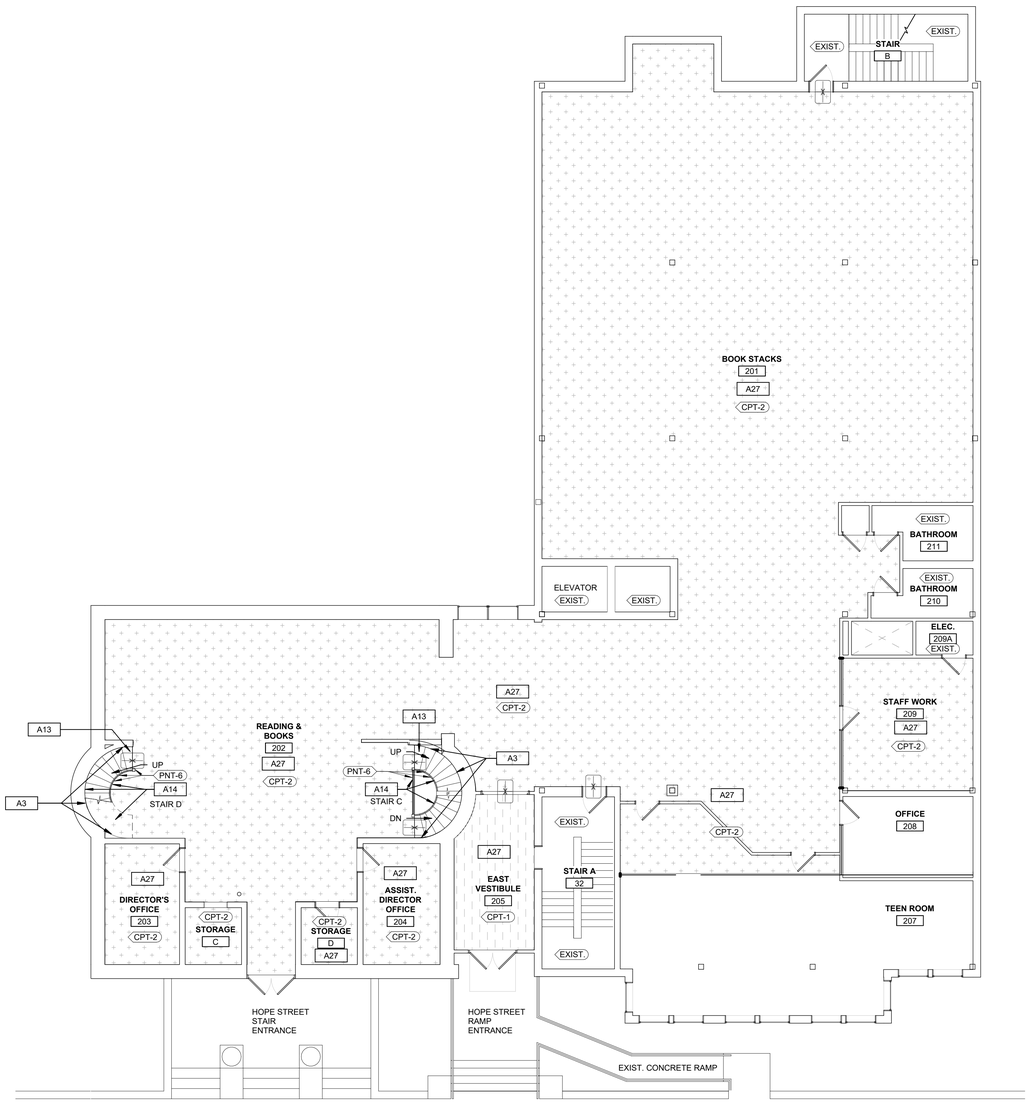
PLAN WORK NOTES

A3 PATCH PLASTER, PRIME & PAINT AT EXISTING WALLS & CEILING.

A13 F&I NEW RUBBER TREADS AND RISERS AT EXISTING MEZZANINE STAIRS (DOWN TO FIRST FLOOR).

A14 F&I LABOR AND MATERIAL TO PAINT METAL AT EXISTING MEZZAINE STAIRS (STAIR C AND STAIR D) METAL STRINGERS, RAILINGS AND FIRST FLOOR GUARD.

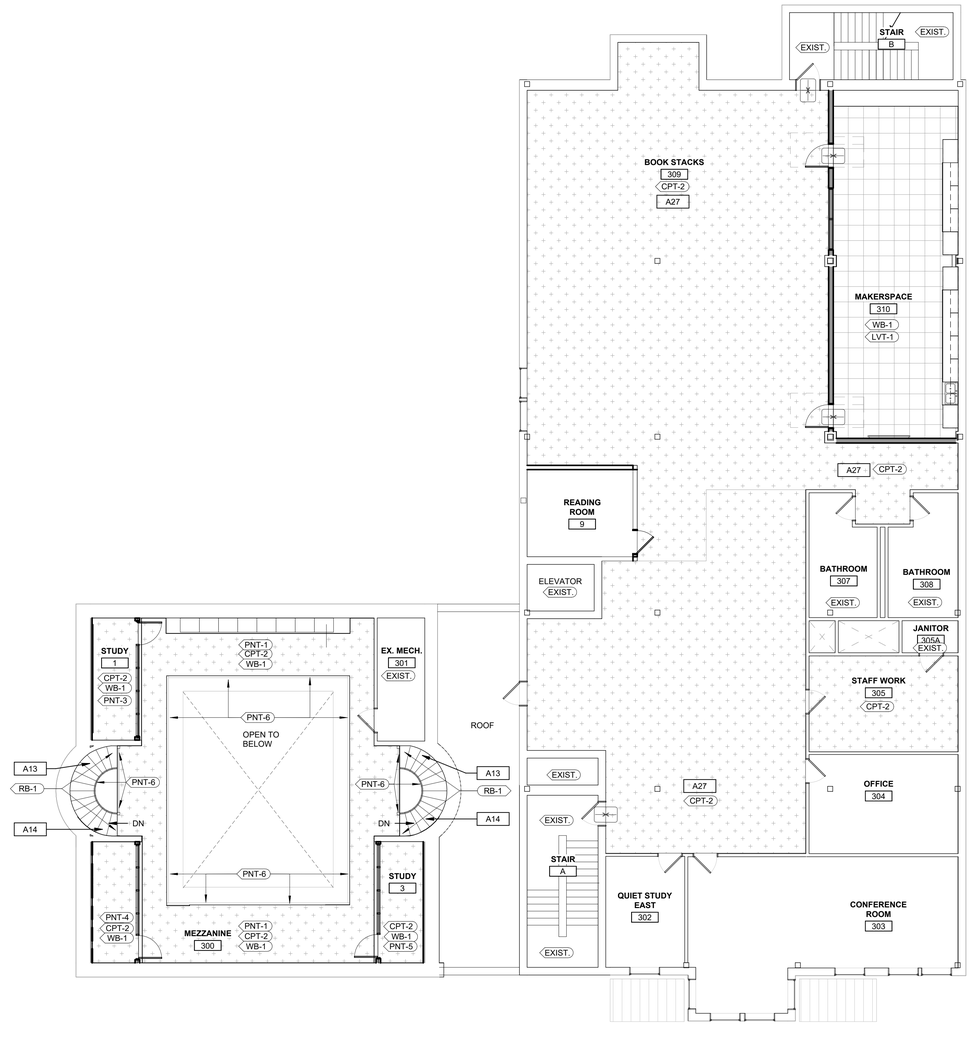
A27 F&I NEW CARPET AND CARPET PAD.



PLAN NORTH

2 / A901 SECOND FLOOR FINISH PLAN

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



PLAN NORTH

1 / A901 THIRD FLOOR FINISH FLOOR PLAN

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

Certification

DAVID L. DACHIATTO No. 7132 REGISTERED ARCHITECT 04.21.25

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FINISH PLAN

Project Number. 6846

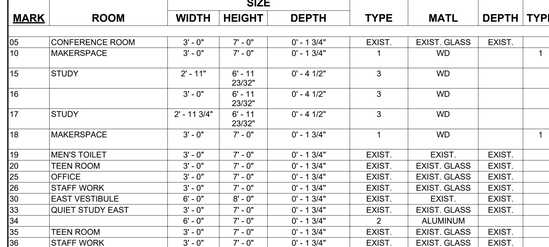
Drawing No.

A901

Sheet of

DOOR AND FRAME SCHEDULE

MARK	ROOM	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE DEPTH	DOOR TYPE	DOOR MATL	FRAME DEPTH	FRAME TYPE	FRAME MATL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING	HARDWARE	REMARKS
05	CONFERENCE ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
10	MAKERSPACE	3' - 0"	7' - 0"	0' - 1 3/4"	1	WD		1	MTL	1/920	3/920	7/920		REMOTE LOCK AND CONNECT TO LIBCAL SOFTWARE, SEE SPECS	ADA COMPLIANT
15	STUDY	2' - 11"	6' - 11 23/32"	0' - 4 1/2"	3	WD								REMOTE LOCK AND CONNECT TO LIBCAL SOFTWARE, SEE SPECS	ADA COMPLIANT
16		3' - 0"	6' - 11 23/32"	0' - 4 1/2"	3	WD								REMOTE LOCK AND CONNECT TO LIBCAL SOFTWARE, SEE SPECS	ADA COMPLIANT
17	STUDY	2' - 11 3/4"	6' - 11 23/32"	0' - 4 1/2"	3	WD								REMOTE LOCK AND CONNECT TO LIBCAL SOFTWARE, SEE SPECS	ADA COMPLIANT
18	MAKERSPACE	3' - 0"	7' - 0"	0' - 1 3/4"	1	WD		1	MTL	1/920	3/920	7/920		REMOTE LOCK AND CONNECT TO LIBCAL SOFTWARE, SEE SPECS	ADA COMPLIANT
19	MEN'S TOILET	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST.	EXIST.								
20	TEEN ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
25	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
26	STAFF WORK	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
30	EAST VESTIBULE	6' - 0"	8' - 0"	0' - 1 3/4"	EXIST.	EXIST.	EXIST.							NEW AUTOMATIC DOOR CONTROLER AND CONTROL PADDLES	PROVIDE POWER TO DOOR & FRAME. CARD ACCESS
33	QUIET STUDY EAST	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
34		6' - 0"	7' - 0"	0' - 1 3/4"	2	ALUMINUM								NEW DOOR AND FRAME	PROVIDE POWER TO DOOR & FRAME. CARD ACCESS
35	TEEN ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
36	STAFF WORK	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
37	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
51		6' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST.	EXIST.							MODIFY IF NEEDED TO COORD. WITH NEW EQUIPMENT AT EXTERIOR DOOR	
53	BOOK STACKS	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER
74	BOOK STACKS	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST. GLASS	EXIST.							EXIST. FLOOR CLOSER	ADJUST CLOSER

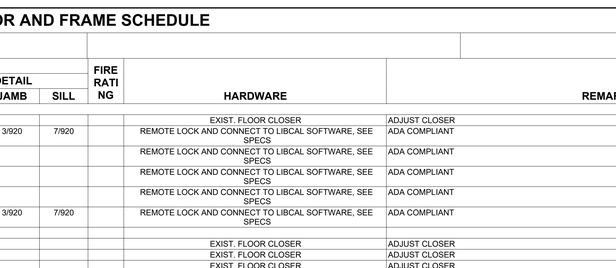


FLUSH SOLID CORE WOOD MATCH EXISTING FINISH

ALUMINUM INSULATED ENTRANCE DOOR WITH FULL LITE EACH DOOR MATCH EXISTING DOOR & FRAME SYSTEM, MATCH FRAME COLOR. RE: DOOR SCHEDULE

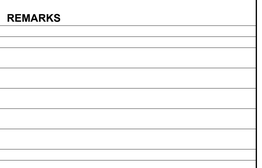
SOLID CORE DOOR WITH FULL LITE, MATCH EXISTING WOOD FINISH RE: DOOR SCHEDULE

1 DOOR TYPES
A910 Scale: 1/4" = 1'-0"



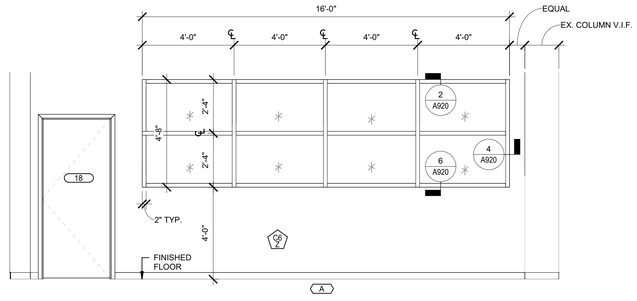
ALUMINUM SLIDER DOOR IN ALUMINUM STOREFRONT FRAME SYSTEM
GLAZING: TEMPERED GLASS, TYPICAL
FRAME COLOR: TO BE SELECTED BY ARCHITECT
PRIVACY FILM: TO BE SELECTED BY ARCHITECT
RE: DOOR SCHEDULE
(SIMILAR AT OPPOSITE HAND)

2 TYPICAL STOREFRONT CC - ELEVATION
A910 Scale: 3/8" = 1'-0"



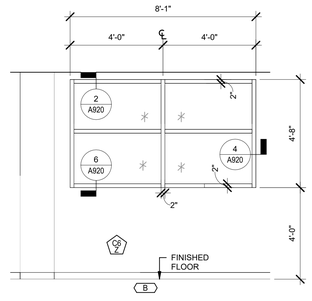
HOLLOW METAL FRAME PAINTED, COLOR TBD

3 DOOR FRAME TYPES
A910 Scale: 1/4" = 1'-0"



VISION PANEL WITH METAL FRAME, PAINTED
GLAZING: TEMPERED GLASS, TYPICAL
FRAME COLOR: TO BE SELECTED BY ARCHITECT

4 VISION PANEL A - ELEVATION
A910 Scale: 3/8" = 1'-0"



VISION PANEL WITH METAL FRAME, PAINTED
GLAZING: TEMPERED GLASS, TYPICAL
FRAME COLOR: TO BE SELECTED BY ARCHITECT

5 VISION PANEL B - ELEVATION
A910 Scale: 3/8" = 1'-0"

GENERAL NOTES:

GENERAL:

1. FOR DOOR HEAD, JAMB, & THRESHOLD DETAILS RE: A920 UNO.
2. STOREFRONT & VISION PANEL DIMENSIONS SHOWN ARE UNIT SIZES. CONTRACTOR TO CONFIRM R.O. DIMENSIONS IN FIELD.
3. SYMBOL ☆ [STAR] DENOTES LOCATIONS REQUIRING SPANDREL GLASS TYP.
4. SYMBOL * DENOTES LOCATION REQUIRING TEMPERED GLAZING. TYPICAL.

DOORS:

1. INTERIOR DOOR FINISHES:
   A. ALUMINUM STOREFRONT: COLOR & FINISH AS INDICATED
   B. WOOD: FACTORY PREFINISHED TO MATCH EXISTING
   C. HOLLOW METAL: FACTORY PRIMED FOR FIELD PAINTING UNO
2. QUICK SET KNOCK DOWN FRAMES ARE NOT ACCEPTABLE.
3. PRE-ASSEMBLIED FRAMES FULLY WELDED KNOCK DOWN FRAMES MEETING THE REQUIRED UL FIRE RATINGS REQUIRED ARE ACCEPTABLE FOR USE ON THIS PROJECT IF APPROVED PRIOR BY ARCHITECT IN WRITING.
4. FRAME PROFILE DEPTH DIMENSION GIVEN INCLUDES THE THROAT DIMENSION PLUS 1" [1/2" RTURNS BOTH SIDES] UNO RE: 1/A920
5. FIELD PAINT ALL METAL FRAMES w/ COLOR AS SELECTED BY THE ARCHITECT. RE: ARCHITECTURAL ELEVATIONS &/or FINISH SCHEDULE.

HARDWARE:

1. HARDWARE & ACCESSORY LIST SCHEDULE ESTABLISHES GENERAL SCOPE REQUIREMENTS. CONTRACTOR, SUPPLIERS &/or MANUFACTURERS TO PROVIDE ALL NECESSARY ACCESSORIES, SCREWS, SEX BOLTS, STRIKES, COVER PLATES, TOOLS, ETC. FOR A COMPLETED INSTALLATION OF HARDWARE FOR A FULLY FUNCTIONAL SYSTEM FOR THE INTENDED USE.
2. TYPICAL HARDWARE FINISH REQUIREMENTS UNO.
   HARDWARE FINISH: MATCH EXISTING FINISHES
   STOREFRONT HARDWARE: MATCH STOREFRONT FRAME FINISH
3. CLOSERS, THRESHOLDS, WEATHERSTRIPPING, ETC TO APPROXIMATE DOOR HARDWARE FINISH NOTED ABOVE.
4. CYLINDER FINISH TO MATCH FINISH OF ITEM IN WHICH CYLINDER IS INSTALLED IN UNO. (IE. STOREFRONT FRAME COLOR, EXIT DEVICE FINISH, LOCKSET FINISH, etc.
5. PROVIDE LEVER HANDLES AT ALL LATCHSETS, LOCKSETS, PANIC DEVICES, DUMMY LATCHSETS TYPICAL UNO.
6. PROVIDE ADA ACCESSIBLE SLIDER HARDWARE & HANDLES AT SLIDER DOORS. HARDWARE & HANDLES SHALL NOT LIMIT THE REQUIRED CLEAR OPENING OF 32" MINIMUM.
7. PROVIDE DOOR SILENCERS AT ALL DOORS NOT RECEIVING WEATHERSTRIPPING.
   SINGLE DOORS PROVIDE 3
   DOUBLE DOORS PROVIDE 2
8. PROVIDE FULL WEATHERSTRIPPING AT ALL EXTERIOR DOORS, HEAD, JAMBS, SILLS TYPICAL UNO.
9. PROVIDE ALUMINIUM THRESHOLDS BY DOOR(S) WIDTH WHERE SHOWN ON PLANS, IN SILL DETAILS, &/or WHERE NOTED. TYPICAL.
10. AT ALL WALL MOUNTED DOOR STOPS STUD FRAME WALLS, PROVIDE 2x6 FRT WOOD BLOCKING &/or 6" x 20 gauge METAL PLATE UNDER THE GYPSUM WALL BOARD SECURED TO THE STUDS TO ATTACH THE STOP TO.
11. PROVIDE POWER TO DOORS AND FRAMES TO ALLOW INSTALLATION OF SMART REMOTE LOCKS / KEY FOB. COORDINATE WITH OWNER'S VENDOR. /ELECTRIC/ACCESS + SECURITY CONTROL DRAWINGS.

REMARK NOTES:

1. A60 GALVANIZED HM FRAME & DOOR
2. GLAZING AS NOTED &/or INDICATED BELOW.
   2F PROVIDE FIRE RATED GLAZING IN DOOR &/or FRAME
   2T PROVIDE TEMPERED GLAZING IN DOOR &/or FRAME
   2W PROVIDE WIRE GLAZING IN DOOR &/or FRAME
3. PROVIDE INTEGRAL TACTILE WARNING ON KNOB/LEVER HANDLE
4. HARDWARE BY DOOR MANUFACTURER & /OR SUPPLIER U.N.O.
5. FIELD VERIFY HEIGHT &/OR WIDTH REQUIREMENTS OF OPENINGS.
6. MAINTAIN ADA ACCESSIBLE ROUTE & DOOR MANEUVERING CLEARANCES AT ALL NEW & EXISTING DOORS AS REQUIRED BY CHAPTER 4 OF A117.1 2009.
7. PROVIDE SIGNAGE MEETING ADA REQUIREMENTS MOUNTED AT 48" MIN. & 60" MAX. A.F.F. ON WALL ADJACENT TO LATCH SIDE OF DOOR.

Certification

DAVID L. DACUNTO No. 9123 REGISTERED PROFESSIONAL ENGINEER STATE OF RHODE ISLAND

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Sheet Contents

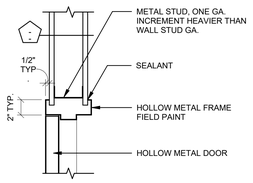
DOOR & GLAZING SCHEDULES

Project Number. 6846

Drawing No.

A910

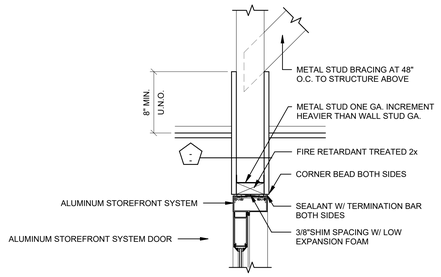
Sheet of



1 A920

TYP. HM HEAD AT STUD

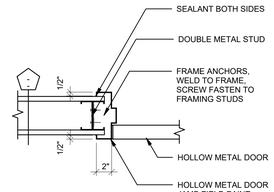
Scale: 1 1/2" = 1'-0" (SECTION DETAIL)



2 A920

TYP. ALUM HEAD AT STUD

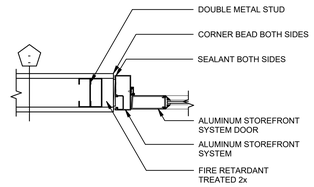
Scale: 1 1/2" = 1'-0" (SECTION DETAIL)



3 A920

TYP. HM JAMB AT STUD

Scale: 1 1/2" = 1'-0" (PLAN DETAIL)



4 A920

TYP ALUM JAMB AT STUD

Scale: 1 1/2" = 1'-0" (PLAN DETAIL)

5 A920

BUILT-UP ALUM SILL

Scale: 1 1/2" = 1'-0" (SECTION DETAIL)

6 A920

TYP. INTERIOR DOOR SILLS

Scale: 1 1/2" = 1'-0" (SECTION DETAILS)

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Sheet Contents

DOOR DETAILS

Project Number. 6846

Drawing No.

A920

Sheet of

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	ANNOTATION TEXTS
	PLUMBING DEMOLITION
	PLUMBING EQUIPMENT
	PLUMBING EXISTING
	PLUMBING DOMESTIC COLD WATER
	PLUMBING DOMESTIC HOT WATER
	PLUMBING DOMESTIC HOT WATER RETURN
	PLUMBING NATURAL GAS
	PLUMBING SANITARY DRAINAGE
	PLUMBING SANITARY DRAINAGE UNDER SLAB
	PLUMBING SANITARY VENT
	PLUMBING STORM DRAINAGE
	PLUMBING SECONDARY STORM DRAINAGE
	PLUMBING COMPRESSED AIR
	PLUMBING CONDENSATE WASTE
P-1	PLUMBING FIXTURE DESIGNATION
	PIPE CAP
	PIPE CONTINUATION
	BACKFLOW PREVENTER
	BALL OR GATE SHUTOFF VALVE
	FLOOR OR GROUND CLEANOUT
	CHECK VALVE
	FLOOR DRAIN - SEE SCHEDULE
	FLOOR SINK
	TRENCH DRAIN
	ROOF DRAIN
	CONNECT TO EXISTING
	ACCESS PANEL
	CLEANOUT (STRAIGHT OR ANGLED)

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	TEE
	PIPE UP AND / OR RISE
	PIPE DROP / DOWN
	HOSE BIBB OR PIPE STUB OUT
	VACUUM BREAKER
	MIXING VALVE
	PRESSURE REDUCING VALVE
	CIRCUIT SETTER w/ GAGE PORT
	PUMP
	WALL SLEEVE
M	FLOW RATE METER (IN GPM)
ABC 1	POWERED EQUIPMENT TAG
1/8"/FT	PIPE SLOPE
	WATER HAMMER ARRESTOR
	AIR ADMITTANCE VALVE
P# #	DETAIL CALLOUT
XX #	RISER TAG

ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

AAV	AIR ADMITTANCE VALVE	HZ	HERTZ
AFF	ABOVE FINISHED FLOOR	IW	INDIRECT WASTE
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AD	ACCESS DOOR	KW	KILOWATT
AHU	AIR HANDLING UNIT	LF	LINEAR FEET
AP	ACCESS PANEL	M	METER
ARCH	ARCHITECT	MAU	MAKE-UP AIR UNIT
BFP	BACKFLOW PREVENTER	MBH	THOUSANDS OF BTU'S PER HOUR
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL
BLDG	BUILDING	MX	MIXING VALVE
BTU	BRITISH THERMAL UNITS	N/A	NOT APPLICABLE
BTUH	BTU PER HOUR	NC	NORMALLY CLOSED
CFM	CUBIT FEET PER MINUTE	NIC	NOT IN CONTRACT
CO	CLEANOUT	NO	NORMALLY OPEN
CO2	CARBON DIOXIDE	NTS	NOT TO SCALE
COP	CENTER OF PIPE	OD	OUTSIDE DIAMETER
CTE	CONNECT TO EXISTING	PC	PLUMBING CONTRACTOR
CW	COLD WATER	PLG	PLUMBING
CV	CHECK VALVE	PSI	POUNDS PER SQUARE INCH GA.
DCO	DANDY CLEANOUT	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	R	RETURN
DN	DOWN	RE	REMOVE EXISTING
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
DHE	DOMESTIC WATER HEATER EXCHANGER	RTU	ROOF TOP UNIT
		SC	SITE CONTRACTOR
E	EXISTING	SD	STORM DRAIN
EC	ELECTRICAL CONTRACTOR	SF	SQUARE FEET
EFF	EFFICIENCY	SQ	SQUARE
ELEC	ELECTRICAL	SS	SANITARY SEWER
ELV	ELEVATION	S/S	STAINLESS STEEL
ET	EXPANSION TANK	STL	STEEL
°F	DEGREES FAHRENHEIT	S/W	SOIL/WASTE PIPE ABOVE FLOOR SLAB
FCO	FLOOR CLEANOUT		
FD	FLOOR DRAIN	T.B.D.	TO BE DEMOLISHED
FLA	FULL LOAD AMPS	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
FOS	FUEL OIL SUPPLY		
FOR	FUEL OIL RETURN	TYP.	TYPICAL
FT	FEET	UG	UNDER GROUND
GAL	GALLONS	UV	ULTRAVIOLET
GALV	GALVANIZED	V	VENT PIPE ABOVE FLOOR SLAB
GC	GENERAL CONTRACTOR	VB	VACUUM BREAKER
GCO	GRADE CLEANOUT	VFD	VARIABLE FREQUENCY DRIVE
GPF	GALLONS PER FLUSH	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	W	WITH
HB	HOSE BIBB-SEE DETAIL	W&T	WASTE AND TRAP
HP	HORSEPOWER	W/O	WITHOUT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	WCO	WALL CLEANOUT
		WHA	WATER HAMMER ARRESTOR
HW	HOT WATER	WH	WATER HEATER
		WMS	WIRE MESH SCREEN
		ZV	ZONE VALVE

GENERAL NOTES

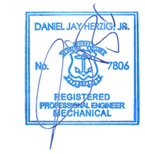
1. SCOPE OF WORK SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, HOISTING, RIGGING, INSURANCE, ETC., TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND HEREIN SPECIFIED FOR A COMPLETE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL CODES AND ORDINANCES HAVING JURISDICTION, AS INTERPRETED BY THE ARCHITECT/ENGINEER.
2. PLUMBING EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.
3. THE DRAWINGS SHOW THE LAYOUT OF THE PLUMBING SYSTEMS AND INDICATE THE APPROXIMATE LOCATIONS OF PIPING, BRANCHES AND ELBOWS, AND EQUIPMENT. THE RUNS AND QUANTITY OF PIPING, OFFSETS AND ELBOWS AS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT ROUTING OF QUANTITY PIPING, OFFSETS AND ELBOWS SHALL BE DETERMINED BY THE STRUCTURAL CONDITIONS, POSSIBLE OBSTRUCTIONS AND COORDINATION DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT THE DESIGN OF THE SYSTEMS MAY BE CHANGED, BUT REFERS ONLY TO EXACT ROUTING BETWEEN GIVEN POINTS.
4. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE BETWEEN THE PLUMBING INSTALLATION AND THE SYSTEMS AND EQUIPMENT OF OTHER TRADES.
5. PLUMBING WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST.
6. PLUMBING CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
7. PRODUCTS REQUIRED BY CONSTRUCTION BUT NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE A/E.
8. PROVIDE AND INSTALL ALL MATERIALS, LABOR, EQUIPMENT, AND ACCESSORIES FOR COMPLETE AND OPERABLE SYSTEMS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS INDICATED ON THE DRAWINGS.
9. INSTALLATION OF THE PLUMBING SYSTEM SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT OF EQUIPMENT.
10. PROVIDE ACCESS PANELS FOR ALL CLEANOUTS,VALVES, ALL OTHER CONCEALED ACCESSORIES REQUIRING ACCESS SUCH AS CONTROL VALVES, PRESSURE REDUCERS, WATER HAMMER ARRESTORS, AND AT ALL OTHER LOCATIONS WHERE COMPONENTS ARE INSTALLED WITHIN TIGHT LOCATIONS REQUIRING MAINTENANCE OR ADJUSTING REGARDLESS OF WHETHER OR NOT AN ACCESS IS INDICATED ON THE FLOOR PLANS.
11. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR PIPING EQUIPMENT INSTALLATION SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
12. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.
13. WHERE PIPING PENETRATES ANY SMOKE AND/OR FIRE RATED PARTITIONS PROVIDE UL LISTED FIRE STOP ASSEMBLY TO MAINTAIN RATING OF ASSEMBLY. INSTALL FIRE STOPPING PER MANUFACTURER REQUIREMENTS. ALL FIRE STOPPING TO BE PROVIDED BY A UL CERTIFIED OR MANUFACTURER CERTIFIED FIRE STOPPING CONTRACTOR.
14. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
15. THE PLUMBING CONTRACTOR MUST COORDINATE THE COMPONENTS AND PROGRAMMING OF THEIR EQUIPMENT, VENDORS AND THEIR SUBCONTRACTORS. CONTROL SEQUENCES SHALL BE TESTED AND CORRECTED TO THE SATISFACTION OF THE OWNER AND ENGINEER.
16. NEW WATER, WASTE & VENT PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTORS REQUIREMENTS AND AS PER THE STATE PLUMBING CODE.
17. ALL PLUMBING FIXTURES SHALL BE LISTED AND APPROVED WITH THE APPROPRIATE AHU.
18. DETAILS ARE PROVIDED TO AID IN UNDERSTANDING. THEY DO NOT NECESSARILY ILLUSTRATE THE ONLY METHODS OF ACHIEVING CODE COMPLIANCE AND ARE NOT SUBSTITUTES FOR PRODUCT INSTALLATION MANUALS. FURTHERMORE, DETAILS ARE SHOWN FOR TYPICAL CASES AND DO NOT ILLUSTRATE EXACT FIELD CONDITIONS UNLESS INDICATED OTHERWISE.

PLUMBING SCOPE OF WORK

1. INSTALL NEW FIXUTRE IN MAKER SPACE WITH FAUCET THAT INCLUDES EMERGENCY EYE WASH

PLUMBING SHEET LIST

Certification



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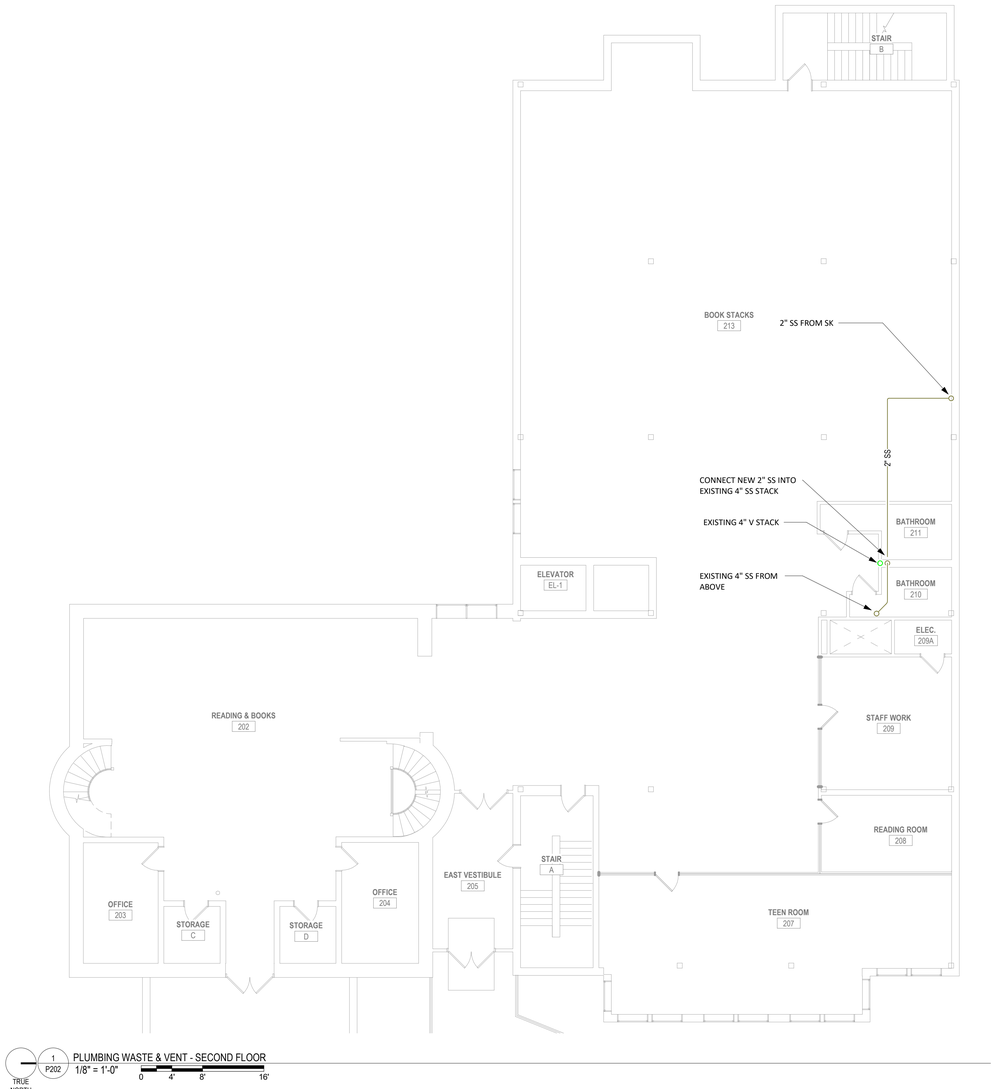
PLUMBING LEGEND & ABBREVIATIONS

Project Number. 6846

Drawing No.

P000

Sheet of



PLUMBING GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
2. SELECTIVE DEMOLITION REQUIRED TO DETERMINE EXISTING ROUTING.
3. CONTRACTOR TO MINIMIZE THE WORK REQUIRED TO PIPE AND DRAIN NEW PLUMBING THROUGH EXISTING OCCUPIED SPACES. CONTRACTOR TO COORDINATE WITH OWNER AND TENANT REP PRIOR TO PERFORMING ANY WORK.
4. WASTE RUNS IN THE SECOND FLOOR CEIING ARE RATHER LONG, WHICH MAY MAKE IT DIFFICULT TO MAINTAIN SLOPE. IF SLOPE CANNOT BE MAINTAINED, NOTIFY THE ARCHITECT OR ENGINEER.
5. NOTE THAT PLUMBING SERVICES SERVE OTHER AREAS, COORDINATE ANY SHUT-DOWNS WITH OWNER.
6. PLUMBING CONTRACTOR TO REROUTE EXISTING WASTE & VENT PIPING AS NEEDED TO ACCOMMODATE NEW MECHANICAL WORK.
7. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR.
8. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
9. SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE CONNECTION SIZES.

Certification

DANIEL JAY HERZIG JR.
No. 7806
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MECHANICAL

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Checked by NJC

Revised on

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Sheet Contents

PLUMBING WASTE & VENT - SECOND FLOOR

Project Number. 6846

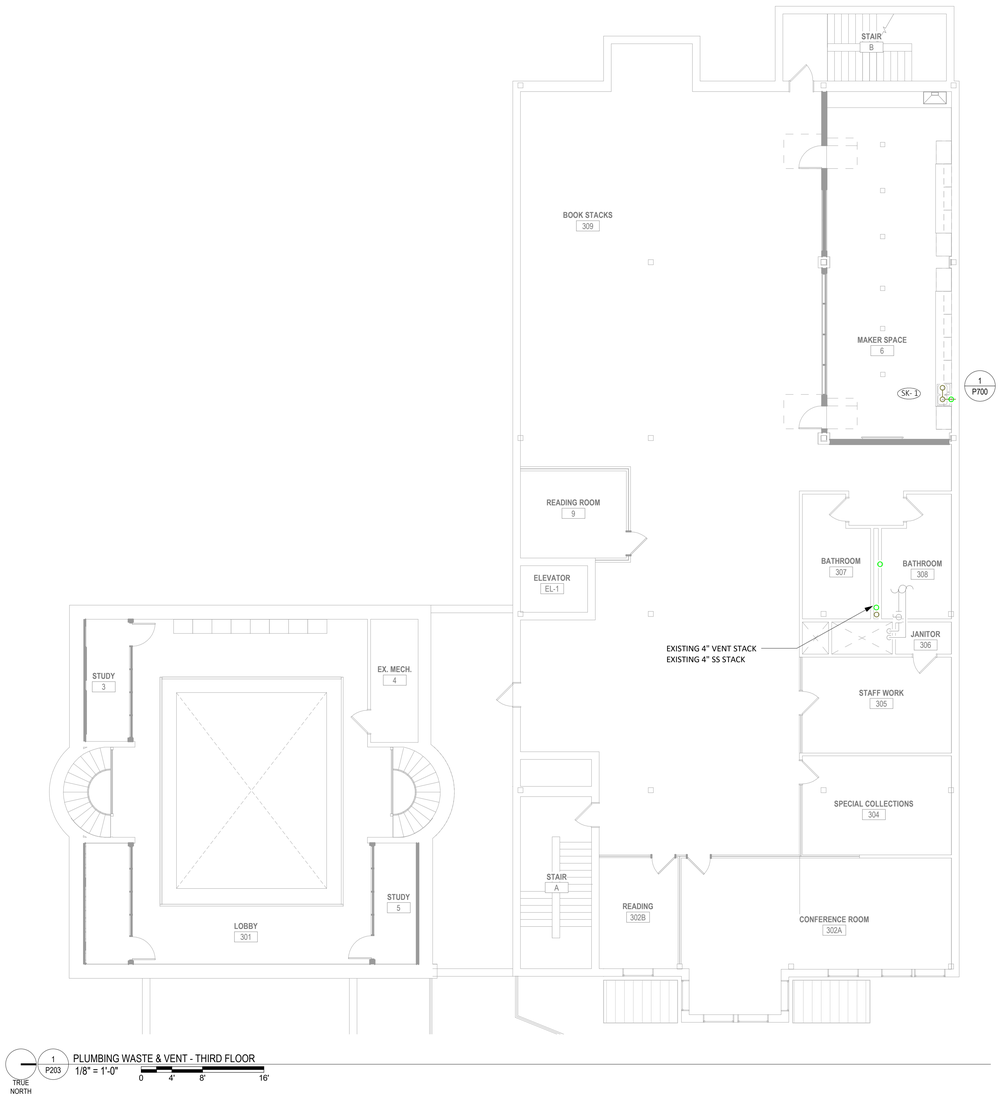
Drawing No.

P202

Sheet of

PLUMBING GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
2. SELECTIVE DEMOLITION REQUIRED TO DETERMINE EXISTING ROUTING.
3. NOTE THAT PLUMBING SERVICES SERVE OTHER AREAS, COORDINATE ANY SHUT-DOWNS WITH OWNER.
4. PLUMBING CONTRACTOR TO REROUTE EXISTING WASTE & VENT PIPING AS NEEDED TO ACCOMMODATE NEW MECHANICAL WORK.
5. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR.
6. SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE CONNECTION SIZES.



Certification

DANIEL JAY HERZIG JR.
No. 7806
REGISTERED
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Drawn by NJC

Checked by NJC

Revised on

CEC Project: 20241248

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Sheet Contents

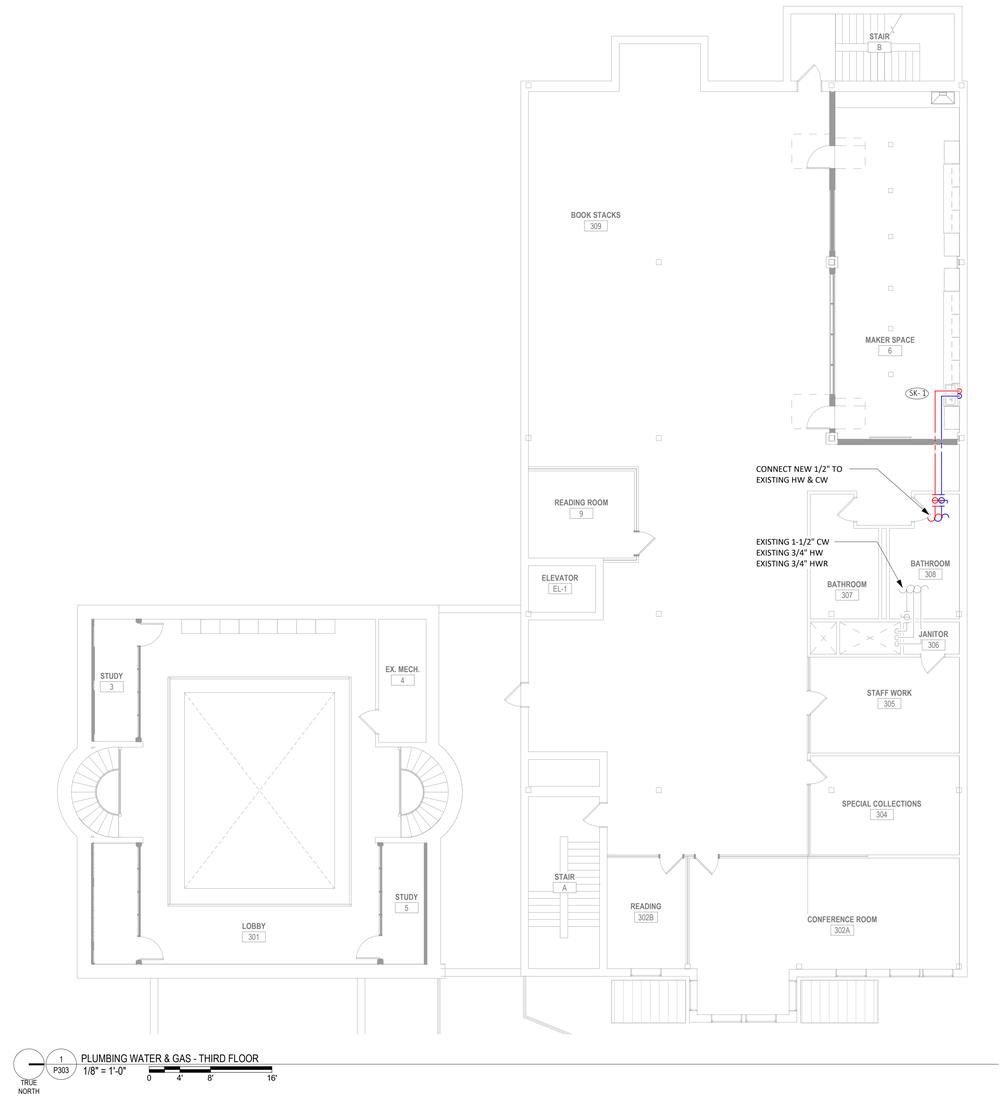
PLUMBING WASTE & VENT - THIRD FLOOR

Project Number. 6846

Drawing No.

P203

Sheet of



PLUMBING GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
2. COORDINATE ALL GAS CONNECTIONS TO ROOTOP UNITS WITH MECHANICAL CONTRACTOR.
3. SELECTIVE DEMOLITION REQUIRED TO DETERMINE EXISTING ROUTING.
4. NOTE THAT PLUMBING SERVICES SERVE OTHER AREAS, COORDINATE ANY SHUT-DOWNS WITH OWNER.
5. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR.
6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
7. SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE CONNECTION SIZES.
8. MODIFICATIONS TO GAS FIRED EQUIPMENT IS NOT INTENDED TO CHANGE THE LOAD OF THE GAS IN THE BUILDING AND PIPES SIZES SHOULD NOT BE EFFECTED.

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PLUMBING WATER & GAS - THIRD FLOOR

Project Number. 6846

Drawing No.

P303

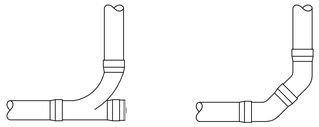
Sheet of

PLUMBING FIXTURE SCHEDULE

Tag Name	Tag #	Tag No.	FIXTURE TYPE	COLD WATER	HOT WATER	VENT	WASTE	FLOW (GPM/GPF)	COMMENT
SK	1	SK-1	SINK WITH EMERGENCY EYEWASH	1/2"	1/2"	1-1/2"	2"	0.5/3.0	ELKAY. CELEBRITY STAINLESS STEEL DOUBLE BOWL DROP-IN SINK. MODEL GECR3321. FAUCET: CHICAGO FAUCET SAFTY FITTINGS TWO-HANDLE TOP-MOUNT EMERGENCY EYEWASH AND FAUCET. MODEL 8452-TABCP. INCLUDES ASSE 1071 MXING VALVE FOR EMERGENCY FIXTURES. MEETS ADA GUIDELINES.

PIPING MATERIAL SCHEDULE

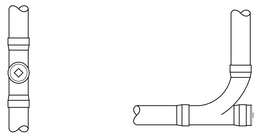
DOMESTIC WATER PIPING INSIDE BUILDING ABOVE FLOOR SIZES 1/2" TO 2"	COPPER TYPE "L", WHICH SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4 OF THE 2018 IPC.
NATURAL GAS PIPING ABOVE GRADE	STEEL AND WROUGHT-IRON PIPE SHALL BE NOT LESS THAN STANDARD WEIGHT (SCH 40) AND SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS: ASME B36.10,10M; ASTM A53/A53M; OR ASTM A106.
SEWER, WASTE AND VENT PIPING INSIDE BUILDING ABOVE FLOOR	PVC, WHICH CONFORMS TO ONE OF THE STANDARDS LISTED IN TABLE 702.1 OF THE 2018 IPC.
SEWER, WASTE AND VENT PIPING INSIDE BUILDING BELOW GRADE	PVC PIPE, WHICH CONFORMS TO ONE OF THE STANDARDS LISTED IN TABLE 702.2 OF THE 2018 IPC.



NOTE:

1. SEE PLUMBING PLANS FOR PIPE SIZES.

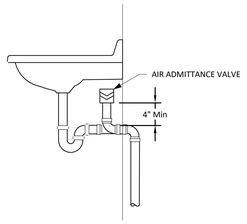
4 P700 CLEANOUT FITTINGS
NOT TO SCALE



NOTE:

1. SEE PLUMBING PLANS FOR PIPE SIZES.

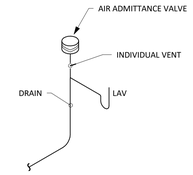
3 P700 CLEANOUTS
NOT TO SCALE



NOTE:

1. SEE PLUMBING PLANS FOR PIPE SIZES.

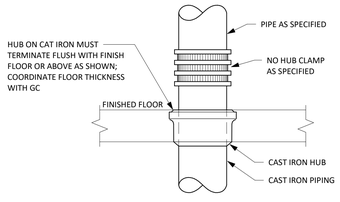
2 P700 AIR ADMITTANCE VALVE SINK LOCATION
NOT TO SCALE



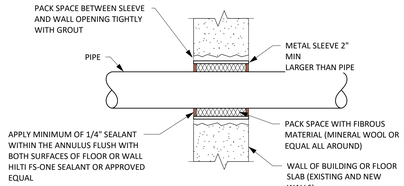
NOTE:

1. SEE PLUMBING PLANS FOR PIPE SIZES.

1 P700 AIR ADMITTANCE VALVE
NOT TO SCALE



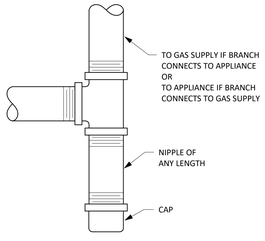
8 P700 WASTE PIPING THROUGH FLOOR SLAB DETAIL
NOT TO SCALE



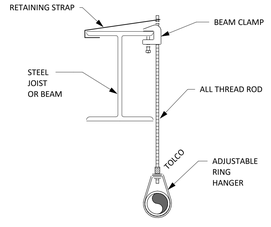
NOTES:

1. FIRESTOP SYSTEM SHALL BE UL LISTED AND MANUFACTURED BY HILTI CO.

7 P700 PIPE PENETRATION DETAIL
NOT TO SCALE



6 P700 GAS CONNECTION SEDIMENT TRAP DETAIL
NOT TO SCALE



5 P700 BAND HANGER DETAIL
NOT TO SCALE

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Sheet Contents
PLUMBING SCHEDULES & DETAILS

Project Number. 6846

Drawing No.
P700

Sheet of

GENERAL PLUMBING SPECIFICATIONS

PART 1 - GENERAL PLUMBING REQUIREMENTS:
1.01 GENERAL CONDITIONS:

THE PROVISIONS IN THIS SECTION SHALL BE CONSIDERED AS APPLICABLE TO ALL PARTS OF THESE SPECIFICATIONS.

A. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR PROVISIONS.

B. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR ON THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.

C. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR AND MATERIALS NOT SPECIFICALLY INDICATED BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.

D. THE CONTRACTOR SHALL COORDINATE HIS WORK OR ADJUST SAME TO THAT OF OTHER TRADES IN ORDER THAT CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR.

E. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH WORK OF OTHER TRADES SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.

F. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY ITEM THAT IS DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COST TO THE OWNER.

G. ALL PLUMBING WORK SHALL BE PERFORMED BY A STATE LICENSED PLUMBER IN STRICT ACCORDANCE WITH AHJ, STATE & LOCAL CODES AND REQUIREMENTS.

H. PROVIDE ALL TRANSPORTATION, FREIGHT, LOADING AND UNLOADING AND PROVIDE ALL LABOR NECESSARY FOR ERECTING IN PLACE OF ALL MATERIAL AND EQUIPMENT SHOWN, SPECIFIED OR REQUIRED UNDER THIS DIVISION.

I. ALL PIPE, FITTING, FIXTURE, SOLDER OR FLUX USED IN OR USED IN THE INSTALLATION OF THE DOMESTIC WATER SYSTEM SHALL MEET THE SAFE DRINKING WATER ACT.

1.02 SCOPE OF WORK:

A. WITHOUT LIMITING GENERALITY, PROVIDED ALL LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE PLUMBING SYSTEM AS DESCRIBED BELOW:

1. SANITARY, WASTE AND VENT PIPING SYSTEM
2. DOMESTIC WATER PIPING SYSTEM
3. PIPE INSULATION, SLEEVING AND FIRESTOPPING
4. HANGERS, SUPPORTS, ACCESS PANELS
5. FLUSHING, DISINFECTING, TESTING AND BALANCING
6. PERMITS AND FEES
7. NATURAL GAS SYSTEM.

PART 2 - EQUIPMENT:
2.01 PIPING & VALVES

A. PROVIDE ALL NECESSARY SUPPORTS, HANGERS, BRACES, ANCHORS, PADS AND ALL ELSE NECESSARY FOR THE ENTIRE INSTALLATION AND TO MEET THE INTENT OF THE SYSTEMS FOR PROPER OPERATION.

B. PIPE AND EQUIPMENT SUSPENSION SHALL BE SUCH AS TO PREVENT EXCESSIVE STRESS, EXCESSIVE VARIATION IN SUPPORTING FORCE, POSSIBLE RESONANCE WITH IMPOSED VIBRATION WHILE THE SYSTEM IS IN OPERATION CREEPING, SAGGING, BUCKLING, OR MISALIGNMENT.

C. SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY OBJECTIONAL SOUND OR VIBRATION.

D. OPENINGS IN EXTERIOR WALLS OR ROOF SHALL BE KEPT PROPERLY PLUGGED AND CAULKED AT ALL TIMES, EXCEPT WHEN BEING WORKED ON TO PRECLUDE THE POSSIBILITY OF FLOODING DUE TO STORM OR OTHER CAUSES. AFTER COMPLETION OF WORK, OPENINGS SHALL BE PERMANENTLY SEALED AND CAULKED IN A MANNER APPROVED BY THE ENGINEER AND ARCHITECT.

E. PROVIDE DI-ELECTRIC FITTINGS BETWEEN DISSIMILAR METALS.

2.02 SMOKE AND FIRE STOPPING:

A. FIRE STOP ALL PENETRATIONS BETWEEN FIRE RATED WALLS WITH APPROVED FIRE STOPPING ASSEMBLIES AS MANUFACTURED BY 3M INDUSTRY, HILTI OR APPROVED EQUAL. THE ASSEMBLIES SHALL COMPLY WITH THE LATEST APPLICABLE REQUIREMENTS OF: THE BUILDING CODE, NFPA STANDARDS AND OWNERS INSURANCE COMPANY. PROPOSED APPLICABLE ASSEMBLIES SHALL BE UL LISTED AND SHALL BE PART OF THE PLUMBING EQUIPMENT SUBMITTAL.

B. ALL PIPING PASSING THROUGH FIRE-RATED WALLS, SLABS, FLOORS, ETC. SHALL HAVE STEEL SLEEVES EXTENDING 2" BEYOND SURROUNDING SURFACE. THE SPACE BETWEEN THE PIPES AND THE SLEEVES SHALL BE COMPLETELY PACKED WITH AN APPROVED FIRE STOPPING MATERIAL. AFTER FIRE STOPPING MATERIAL HAS BEEN INSTALLED AROUND PIPES, A 26 GAUGE SHEET METAL COLLAR SHALL BE SECURED AROUND THE PIPE TO INSURE TIGHTNESS.

C. SUBMIT UL LISTED DETAIL FOR INDIVIDUAL PENETRATION CONDITIONS FOR APPROVAL BY ENGINEER.

2.03 INSULATION:

A. ALL INSULATION, WHEN INSTALLED, SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM-E-84, NFPA-255, AND UL-723, NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 WHEN COMPARED WITH RED OAK AS 100, AS APPROVED UNDER NFPA AND NBFU PAMPHLET NO. 90A AND NO. 90B STANDARDS.

B. DOMESTIC WATER PIPING ABOVE GROUND SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH FACTORY-APPLIED ALL-SERVICE JACKET SECURED IN PLACE WITH SELF SEALING LAPS. FITTINGS SHALL BE INSULATED WITH PREMOLDED PVC COVERS SECURED IN PLACE WITH STAINLESS STEEL TACKS. DOMESTIC WATER PIPING BELOW GROUND SHALL BE INSULATED WITH 1/2" THICK "ARMAFLEX" ELASTOMERIC UNICELLULAR SEAMLESS INSULATION.

C. PIPING INSULATION MATERIALS AS MANUFACTURED BY GUSTIN-BACON, JOHNS MANVILLE, OWENS-CORNING, KNAUF, OR CERTAIN TEED.

D. PROVIDE AND INSTALL PLASTIC P-TRAP PIPING AND VALVE COVER SYSTEM UNDERNEATH ALL EXPOSED ADA ACCESSIBLE LAVATORIES OR SINKS. COVER SYSTEM SHALL MEET ALL ADA STANDARDS AND BE SECURED INTO PLACE. PROVIDE A LAVATORY OFFSET DRAIN ACCESSORY AS REQUIRED.

E. PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.11.3 OF THE 2018 IECC.

2.04 ACCESS PANELS:

A. FURNISH ALL ACCESS PANELS FOR INACCESSIBLE WALLS AND CEILINGS. COORDINATE THE ACCESS PANEL LOCATION WITH GENERAL CONTRACTOR. PIPING SHALL BE LAID OUT IN SUCH A MANNER AS TO MINIMIZE THE NUMBER OF ACCESS PANELS REQUIRED. MILCOR PRODUCTS, VENTLOCK, KNAPP. MINIMUM SIZE: 8" X 8".

B. PROVIDE ACCESS PANELS FOR ALL CLEANOUTS, VALVES, AND OTHER CONCEALED ACCESSORIES REQUIRING ACCESS SUCH AS SHOCK ABSORBERS, CONTROL VALVES, PRESSURE REDUCERS, AIR ARRESTORS, ETC.

2.05 IDENTIFICATION, MARKING AND TAGGING:

A. EQUIPMENT IDENTIFICATION:

1. MANUFACTURER'S NAMEPLATES OR TRADEMARK SHALL BE PERMANENTLY AFFIXED TO ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS DIVISION. MANUFACTURER'S NAMEPLATES SHALL INCLUDE ALL PERTINENT DATA RELATIVE TO THE PIECE OF EQUIPMENT INCLUDING MODEL NUMBER, SERIAL NUMBER, AND OPERATING CHARACTERISTICS AS APPLICABLE.

2. SEPARATE EQUIPMENT IDENTIFICATION MARKERS SHALL IDENTIFY EACH ITEM OF EQUIPMENT WITH A PERMANENTLY ATTACHED MARKER INDICATING DESIGNATION AND/OR NUMBER CORRESPONDING TO DESIGN DOCUMENTS E.G. WH-1, WH-2, ETC.

3. MARKERS SHALL BE OF RIGID BLACK BAKELITE OR PHENOLIC CONSTRUCTION WITH WHITE ENGRAVED OR INCISED LETTERS.

4. LETTERING ON EQUIPMENT MARKERS SHALL BE OF ADEQUATE SIZE TO BE LEGIBLE FROM FLOOR LEVELS. MARKER LETTERING SHALL NO BE LESS THAN 1 INCH HIGH.

5. MOUNT EQUIPMENT IDENTIFICATION NAMEPLATES IN A CONSPICUOUS PLACE ON THE EQUIPMENT.

6. FOR EQUIPMENT ABOVE THE FLOOR LEVEL, MOUNT IDENTIFICATION NAMEPLATE SO THAT IT CAN BE SEEN FROM FLOOR LEVEL.

7. ATTACH NAMEPLATES WITH RIVETS.

B. PIPING SYSTEM IDENTIFICATION:

1. PIPING SYSTEMS SHALL BE IDENTIFIED AS INDICATED HEREIN OR AS REQUIRED BY APPLICABLE CODES AND/OR OFFICIALS HAVING JURISDICTION.

2. PIPE MARKERS SHALL BE COLOR CODED ACCORDING TO "TABLE 2: CLASSIFICATION OF MATERIALS AND DESIGNATIONS TO COLORS" - ANSI A13.1-2015.

3. PIPE MARKERS SHALL INDICATE DIRECTION OF FLOW, SYSTEM, OPERATING PRESSURE AND TEMPERATURE.

4. PIPE MARKERS SHALL BE OF THE PRESSURE SENSITIVE TYPE AS MANUFACTURED BY THE SETON NAMEPLATE CORP (F10-CODE).

5. PIPE MARKERS SHALL BE INSTALLED AT EVERY POINT OF ENTRY AND EXIT THROUGH FLOORS, WALLS, CEILINGS ON EACH RISER, TAKE-OFF AND BRANCH AND AT EACH PIECE OF EQUIPMENT.

6. INSTALL PIPE MARKERS AT A DISTANCE OF NOT LESS THAN 25 FEET APART IN CONTINUOUS LENGTHS OF PIPE LINES AND ORIENTED SO THAT MARKERS ARE CLEARLY VISIBLE. WHEN PIPE LINES ARE LOCATED ABOVE THE NORMAL LINE OF VISION, THE MARKER SHALL BE PLACED BELOW THE HORIZONTAL CENTERLINE OF THE PIPE.

C. VALVE IDENTIFICATION:

1. PROVIDE LAMINATED PLASTIC NAMEPLATES ON ALL VALVES INSTALLED UNDER DIVISION 22, EXCEPT STOP VALVES IN SUPPLIES TO FIXTURES. TAGS SHALL BE CONSTRUCTED OF 1/8" THICK MELAMINE PLASTIC CONFORMING TO FEDERAL SPECIFICATION L-P-387. SURFACE SHALL BE MATTE FINISH. ACCURATELY ALIGN LETTERING AND ENGRAVE INTO WHITE CORE. NAMEPLATES SHALL BE TO 2" ROUND OR HEXAGONAL. LETTERING SHALL BE MINIMUM OF 0.375" HIGH NORMAL BLOCK LETTERING. KEY THE NAMEPLATES TO A CHART AND SCHEDULE FOR EACH SYSTEM UNDER GLASS AND PLACE WHERE DIRECTED IN MECHANICAL ROOM. FURNISH FOUR COPIES OF EACH CHART AND SCHEDULE. EACH INSCRIPTION SHALL IDENTIFY IT'S FUNCTION. ATTACH NAMEPLATES WITH "S" HOOKS AND CHAIN TO EACH VALVE. VALVE NAMEPLATES SHALL BE NUMBERED AND "KEYED" AS FOLLOWS:

a. PLUMBING NAMEPLATES SHALL BE RED IN COLOR AND INDICATE:

1. "CW" COLD WATER
2. "HW" HOT WATER
3. "HWR" HOT WATER RETURN

b. CHART AND SCHEDULE SHALL INDICATE THE FOLLOWING INFORMATION:

1. MANUFACTURER, TYPE, AND MODEL NUMBER
2. CAPACITY OR SIZE
3. SYSTEM IN WHICH IT IS INSTALLED
4. SYSTEM OR EQUIPMENT WHICH IT CONTROLS
5. LOCATION KEYED INTO VALVE NUMBER.

c. VALVE TAGS AND CHAIN SHALL BE SECURELY ATTACHED TO THE VALVE SO THAT NORMAL OPERATION OF THE VALVE OR TAMPERING WILL NOT ALLOW IT TO BE REMOVED.

2.06 SLEEVES, INSERTS AND ESCUTCHEONS:

A. PROVIDE SLEEVES FOR ALL WORK PASSING THROUGH FLOOR, WALL, AND CEILING CONSTRUCTION. MAINTAIN ALL REQUIRED RATINGS.

B. LOCATE AND PROVIDE SLEEVES AND INSERTS BEFORE THE FLOOR, WALL OR CEILING IS CONSTRUCTED. IF THIS CONTRACTOR DOES NOT COMPLY WITH THE ABOVE, THEY SHALL BEAR ALL COSTS INCURRED FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF SLEEVES AND INSERTS. HOLES REQUIRED FOR SLEEVES IN EXISTING WALLS AND FLOORS, OR TO CONFORM TO THE ABOVE, SHALL BE SAW CUT OR CORE DRILLED. THIS CONTRACTOR SHALL PROVIDE ALL DRILLING REQUIRED FOR THE INSTALLATION OF HANGERS.

C. PIPE SLEEVES THROUGH OUTSIDE WALLS AND SLAB-ON-GRADE FLOOR SHALL BE SCHEDULE 80 BLACK STEEL PIPE WITH 150 LB. BLACK STEEL SLIP-ON WELDED FLANGES, WELDED AT THE CENTER OF THE OUTSIDE. EXTEND SLEEVES 1/2" BEYOND EACH SIDE OF THE WALL. PACK THE SPACE BETWEEN SLEEVE AND PIPE WITH OAKUM TO WITHIN 2" OF EACH FACE OF THE WALL. PACK THE REMAINING SPACE AND MAKE WATERTIGHT WITH AN APPROVED WATERPROOF COMPOUND. (INSIDE FACE OF SLAB-ON-GRADE FLOOR). FOR EXISTING WALL CONSTRUCTION, CENTER FLANGE WILL NOT BE REQUIRED.

D. PIPE SLEEVES THROUGH CONCRETE FLOORS OR INTERIOR MASONRY WALLS SHALL BE SCHEDULE 40 BLACK STEEL PIPE. SET FLUSH WITH FINISHED WALL OR CEILING SURFACES, BUT EXTENDING 2 INCHES ABOVE FINISHED FLOORS. PLASTIC, PVC, OR LIGHT METAL SLEEVES SHALL NOT BE INSTALLED.

E. PROVIDE INDIVIDUAL OR STRIP TYPE INSERTS PRESSED STEEL CONSTRUCTION WITH ACCOMMODATION FOR REMOVABLE NUTS AND THREADED RODS UP TO 3/4" DIAMETER, PERMITTING LATERAL ADJUSTMENT. INDIVIDUAL INSERTS SHALL HAVE AN OPENING AT THE TOP TO ALLOW REINFORCING RODS TO 1/2" DIAMETER TO BE PASSED THROUGH THE INSERT BODY AND SHALL BE SIMILAR TO FEE AND MASON MANUFACTURING COMPANY FIGURE 178. STRIP INSERTS SHALL HAVE ATTACHED RODS WITH HOODED ENDS TO ALLOW FASTENING TO REINFORCING RODS AND SHALL BE SIMILAR TO FEE AND MASON MANUFACTURING COMPANY.

F. WHERE PIPE MOTION DUE TO EXPANSION AND CONTRACTION WILL OCCUR, MAKE SLEEVES OF SUFFICIENT DIAMETER TO PERMIT FREE MOVEMENT OF PIPE. WHERE SLEEVES PASS INSULATED PIPES, THE SLEEVES SHALL BE LARGE ENOUGH TO PASS THE PIPE AND THE INSULATION. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH OF SLEEVES FOR VARIOUS LOCATIONS.

G. ESCUTCHEON PLATES SHALL BE PROVIDED FOR ALL EXPOSED UNINSULATED PIPES PASSING THROUGH WALLS, FLOORS, AND CEILINGS. PLATES SHALL BE NICKEL PLATED, OF THE SPLIT RING TYPE, OF SIZE TO MATCH THE PIPE. WHERE PLATES ARE PROVIDED FOR PIPES PASSING THROUGH SLEEVES WHICH EXTEND ABOVE THE FLOOR SURFACE, PROVIDE DEEP RECESSED PLATES TO CONCEAL PIPE SLEEVES.

H. PACK THE SPACE BETWEEN SLEEVES AND STRUCTURE, AND SLEEVES AND PIPES PASSING THROUGH FIRE RATED INTERIOR WALLS, FLOORS, AND CEILINGS WITH AN APPROVED FIRE AND SMOKE PROOF PACKING MATERIAL. FIRE-STOPPING MATERIAL SHALL MAINTAIN ITS DIMENSIONS AND INTEGRITY WHILE PREVENTING THE PASSAGE OF FLAME, SMOKE, AND GASES UNDER CONDITIONS OF INSTALLATION AND USER WHEN EXPOSED TO THE ASTM E119 TIME-TEMPERATURE CURVE FOR A TIME PERIOD EQUIVALENT TO THE RATING OF THE ASSEMBLY PENETRATED. COTTON WASTE SHALL NOT IGNITE WHEN PLACED IN CONTACT WITH THE NON-FIRE SIDE DURING THE TEST. FIRE-STOPPING MATERIAL SHALL BE NON-COMBUSTIBLE AS DEFINED BY ASTM E136; AND IN ADDITION, FOR INSULATION MATERIALS, MELT POINT SHALL BE A MINIMUM OF 1700°F FOR 1-HOUR PROTECTION AND 1850°F FOR 2-HOUR PROTECTION.

I. FASTEN SLEEVES SECURELY IN FLOORS, WALLS, ETC. SO THAT THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN CONSTRUCTION IS BUILT AROUND THEM. TAKE PRECAUTIONS TO PREVENT CONCRETE, PLASTER, OR OTHER MATERIALS BEING FORCED INTO THE SPACE BETWEEN PIPE AND SLEEVE DURING CONSTRUCTION.

PART 3 - EXECUTION (REVIEW SCOPE OF WORK FOR APPLICABILITY)
3.01 WATER SYSTEM:

A. PIPING SHALL BE RUN PARALLEL WITH THE LINES OF THE BUILDING. PIPING SHALL BE WELL SUPPORTED FROM THE STRUCTURE; FREE FROM POCKETS AND SAGS; PITCHED TO DRAIN POINTS; AND INSTALLED WITH PIPE EXPANSION LOOPS, MECHANICAL EXPANSION JOINTS, PIPE GUIDES, OFFSETS AND ANCHORS TO ADEQUATELY PROVIDE FOR THERMAL EXPANSION.

B. ABOVE GROUND PIPING SHALL BE INSTALLED TO PROVIDE NOT LESS THAN 3/4" SPACING FROM FINISHED COVERING TO OTHER COVERING OR SURFACES OF OTHER CONSTRUCTION. SEPERATE BELOW GROUND HOT & COLD WATER PIPING THAT ARE TO BE INSTALLED IN THE SAME TRENCH, BY A MINIMUM OF 12". PIPE SHALL HAVE LONG TURN RADIUS TURNS, WITHOUT KINKS. PIPING SHALL NOT MAKE CONTACT WITH OTHER PIPE, CONDUIT REINFORCING STEEL OR CONCRETE.

C. ALL PIPING SHALL BE PROTECTED FROM WATER HAMMER OR SHOCKS BY APPROVED WATER HAMMER ARRESTORS.

D. VALVES SHALL BE INSTALLED ON BRANCHES AND AT SINGLE FIXTURES WHEN TRIM DOES NOT INCLUDE STOPS. PROVIDE CHICAGO MODEL NO. 1018 HEAVY DUTY STOPS OR APPROVED EQUAL.

E. FINAL CONNECTIONS SHALL BE MADE TO ALL EQUIPMENT WITH PROPER CONNECTION WHETHER FURNISHED BY THIS CONTRACTOR OR BY OTHERS. THIS CONTRACTOR SHALL PROVIDE FAUCETS, TRAPS, STRAINERS AND SUPPLIES.

3.02 DRAINAGE SYSTEMS:

A. THE INTERIOR DRAINAGE SYSTEMS SHALL BE CONSTRUCTED USING MATERIALS AND METHODS AS SPECIFIED AND/OR INDICATED.

B. PROVIDE PROPERLY TRAPPED AND VENTED WASTE CONNECTION TO FIXTURES, FLOOR DRAINS, AND SPECIAL EQUIPMENT.

C. DRAIN PIPING SHALL BE UNIFORMLY PITCHED TO CONFORM WITH STATE AND LOCAL PLUMBING CODE.

D. TRAPS OF MATERIAL AND DESIGN APPROVED BY THE LATEST ADDITION OF THE APPLICABLE PLUMBING CODE SHALL BE FURNISHED & INSTALLED BY THE PLUMBING CONTRACTOR FOR ALL EQUIPMENT AND APPLIANCES. ALL TRAPS SHALL HAVE THE BOTTOM CLEANOUTS WHERE ACCESS CAN BE PROVIDED.

E. CAREFULLY INSPECT FOR DAMAGED MATERIALS. RUN PIPING AS SHOWN ON THE DRAWINGS, MAKE CHANGES IN DIRECTION WITH LONG SWEEP 1/8" OR 1/16" BENDS. CONNECTIONS TO STACKS MAY BE WITH SANITARY T-FITTINGS.

3.03 NATURAL GAS SYSTEM:

A. PROVIDE A COMPLETE SYSTEM OF GAS PIPING TO ALL OUTLETS AND EQUIPMENT REQUIRING GAS AND CONNECTIONS TO EXISTING GAS PIPING.

B. PROVIDE ALL NECESSARY GAS VALVES AND PIPING FOR A COMPLETE SYSTEM.

C. THIS CONTRACTOR SHALL INCLUDE IN THEIR BID PRICE ALL CHARGES LEVIED BY THE LOCAL GAS SUPPLIER, FOR THE INSTALLATION OF THE GAS SYSTEM INDICATED ON DRAWINGS AND SHALL BE ENTIRELY RESPONSIBLE FOR ALL INCIDENTAL CHARGES OCCURED FROM THE INSTALLATION OF THE SYSTEM.

D. PROVIDE INDIVIDUAL GAS SHUT-OFF VALVES AT EACH ITEM OF EQUIPMENT AND AT EACH BRANCH OFF THE HEADERS. DO NOT LOCATE VALVES ABOVE CEILINGS.

E. PROVIDE INDIVIDUAL PRESSURE REGULATING VALVES AT EACH ITEM OF EQUIPMENT IF NOT SUPPLIED WITH EQUIPMENT. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CONFIRM THIS REQUIREMENT. ALL GAS REGULATORS SHALL BE PROVIDED WITH TEST GAUGE PORTS ON THE INLET SIDE AND THE DISCHARGE SIDE OF THE REGULATOR TO TEST THE INLET AND OUTLET PRESSURE AT THE EQUIPMENT.

F. DELIVERED GAS SYSTEM PRESSURE SHALL NOT EXCEED 11" W.C. CONTRACTOR TO VERIFY & ADJUST AS REQUIRED.

G. PAINT ALL EXTERIOR GAS PIPING WITH TWO COATS OF RUST INHIBITIVE YELLOW ENAMEL.

3.04 TESTING & BALANCING:

A. ALL PLUMBING SYSTEMS LOCATED IN THE SCOPE OF THE PROJECT SHALL BE TESTED & REPAIRED BY THIS CONTRACTOR. TESTING OF ALL SYSTEMS SHALL BE DONE AT THE EXPENSE OF THE PLUMBING CONTRACTOR, AND WITH EQUIPMENT FURNISHED BY THEM. TESTING SHALL BE IN THE PRESENCE OF DULY AUTHORIZED INSPECTORS AND THE OWNER'S REPRESENTATIVE WITH 48-HOUR NOTICE GIVEN TO THESE AUTHORITIES. ALL SYSTEMS SHALL BE REPAIRED AND RETESTED UNTIL REQUIREMENTS ARE MET, WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

B. NEW WATER, WASTE & VENT PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTOR'S REQUIREMENTS AND AS REQUIRED BY THE STATE PLUMBING CODE.

C. NEW SANITARY WASTE & VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTOR'S REQUIREMENTS AND AS REQUIRED BY THE STATE PLUMBING CODE.

D. NEW GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH NFPA 54 AND LOCAL PLUMBING INSPECTOR'S REQUIREMENTS AND AS REQUIRED BY THE STATE PLUMBING CODE. THE PIPING SYSTEM SHALL WITHSTAND A PRESSURE OF AT LEAST 6" OF MERCURY OR 3 LBS GAUGE FOR A PERIOD OF AT LEAST 10 MINUTES WITHOUT SHOWING A DROP IN PRESSURE.

E. NEW LAB WASTE & VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTOR'S REQUIREMENTS, AS REQUIRED BY THE STATE PLUMBING CODE AND THE MANUFACTURERS GUIDELINES.

F. COMPRESSED AIR PIPING AND SPECIALTY GASES SHALL BE FILLED WITH CLEAN, DRY NITROGEN FROM CYLINDERS AND TESTED TO 150 PSIG OR 1.5 TIMES THE DESIGN PRESSURE FOR A PERIOD OF 24 HOURS.

G. VACUUM PIPING SHALL BE FILLED WITH CLEAN, DRY NITROGEN FROM CYLINDERS AND TESTED TO 150 PSIG OR 1.5 TIMES THE DESIGN PRESSURE FOR A PERIOD OF 24 HOURS.

H. SPECIALTY GAS AND VACUUM PIPING SHALL BE FILLED WITH CLEAN, DRY NITROGEN FROM CYLINDERS AND TESTED TO 150 PSIG OR 1.5 TIMES THE DESIGN PRESSURE FOR A PERIOD OF 24 HOURS.

I. RODI PIPING SHALL BE TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTOR'S REQUIREMENTS, AS REQUIRED BY THE STATE PLUMBING CODE AND THE MANUFACTURERS GUIDELINES.

3.05 CUTTING AND PATCHING:

A. PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL THE WORK SPECIFIED IN THIS DIVISION. PATCHING SHALL MATCH ADJACENT SURFACES.

B. SAW CUT, CHANNEL, CHASE, AND CORE-DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES NECESSARY FOR PLUMBING INSTALLATION. PERFORM CUTTING BY SKILLED MECHANICS OF THE TRADE INVOLVED. REPAIR CUT SURFACES TO MATCH ADJACENT SURFACES.

C. FIRESTOP ALL PENETRATIONS BETWEEN FLOORS & FIRE RATED WALLS.

D. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ENGINEER. ALL SUCH CUTTING SHALL BE ACCOMPLISHED IN A MANNER DIRECTED BY THE ENGINEER.

3.06 STERILIZATION:

A. THE POTABLE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY FLUSH CLEANED, DISINFECTED AND TESTED AS REQUIRED BY THE STATE PLUMBING CODE.

3.07 SCAFFOLDING, RIGGING AND HOISTING

A. PROVIDE SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR DELIVERY, ERECTION AND INSTALLATION OF MATERIAL, EQUIPMENT AND APPARATUS FURNISHED UNDER THIS DIVISION. REMOVE SAME FROM PREMISES UPON COMPLETION OF WORK.

3.08 COMPLETION:

A. PROVIDE PROPERLY EXECUTED CERTIFICATE OF INSPECTION FROM THE LOCAL PLUMBING INSPECTOR'S OFFICE.

B. VERIFY THAT PROJECT RECORD DOCUMENTS ARE COMPLETE AS SPECIFIED UNDER SUBMITTALS AND RECORD DOCUMENTS.

3.09 APPROVALS AND SUBSTITUTIONS:

A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE ALLOWED, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM CRITERIA AS DELINEATED, SPECIFIED EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.

B. SUBSTITUTED EQUIPMENT, WHERE PERMITTED, MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY MODIFICATION OF RELATED SYSTEMS OR ADDITIONAL COSTS THAT RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE BORNE BY THIS CONTRACTOR.

C. IT SHALL BE MANDATORY FOR THIS CONTRACTOR TO SUBMIT THEIR BID PRICE BASED ON SPECIFIED MANUFACTURERS OR SUPPLIERS OF MATERIALS OR SERVICES. IF THE CONTRACTOR DESIRES TO SUBSTITUTE OTHER THAN SPECIFIED, THEY SHALL SUBMIT SEPARATE PRICES FOR EACH OF THESE ITEMS FOR ADDITIONS OR DEDUCTIONS TO THE BID PRICE, FOR ACCEPTANCE OR REJECTION AT THE TIME BIDS ARE DUE. SHOULD THESE SUBSTITUTIONS BE REJECTED, THE CONTRACTOR SHALL BE OBLIGED TO PROVIDE SPECIFIED MATERIALS AND SERVICES.

3.10 CODES, PERMITS, TESTING AND INSPECTION:

A. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENTS OF THE STATE BUILDING & PLUMBING CODES, LOCAL CODES AND AUTHORITIES HAVING JURISDICTION OVER THE WORK OF THIS PROJECT. THE PROGRESS OF THE WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER, CITY AGENCIES, UTILITY INSPECTORS, AND TO SUCH OTHER INSPECTORS AS MAY HAVE JURISDICTION AT THE CONTRACTOR'S COST.

B. ANY PORTION OF WORK WHICH IS NOT SUBJECT TO THE APPROVAL OF AN AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS.

C. COMPLY WITH APPLICABLE UTILITY COMPANY RULES AND REGULATIONS.

D. THE CONTRACTOR SHALL SECURE REQUIRED PERMITS, INSPECTION & TEST CERTIFICATES, TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK. PAY ALL ASSOCIATED FEES.

E. AT COMPLETION OF THE WORK, CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE IN WRITING A STATEMENT STATING: (1) THAT THE WORK IS COMPLETE; (2) THAT THE ENTIRE INSTALLATION IS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS; (3) THAT PRELIMINARY TESTS HAVE BEEN MADE; AND (4) THAT THE WORK IS READY FOR FINAL INSPECTION AND TEST.

F. A FINAL INSPECTION OF THE INSTALLATION TO DETERMINE COMPLIANCE WITH THE DRAWING AND SPECIFICATIONS WILL BE MADE BY THE OWNER'S REPRESENTATIVE. WORK WILL BE CHECKED FOR QUALITY OF MATERIALS, QUALITY OF WORKMANSHIP, PROPER INSTALLATION AND FINISHED APPEARANCE. THIS CONTRACTOR SHALL PROVIDE THE SERVICES OF THE PROJECT FOREMAN FOR INSPECTION PURPOSES. THE FOREMAN SHALL REMOVE AND REINSTALL ACCESS PANELS, CEILING TILES, ETC., AS REQUIRED TO FACILITATE ANY INSPECTIONS REQUIRED BY THE OWNER'S REPRESENTATIVE.

G. THE CONTRACTOR SHALL ARRANGE AND CONDUCT OPERATING TESTS ON ALL EQUIPMENT IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE COMPONENT PARTS OF SYSTEMS AND THE VARIOUS SYSTEMS SHALL BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THIS SPECIFICATION. ANY NON-COMPLYING OR DEFECTIVE MATERIALS OR WORKMANSHIP DISCLOSED AS A RESULT OF THE INSPECTION AND TESTS SHALL BE CORRECTED PROMPTLY BY THE CONTRACTOR, AND THE TESTS REPEATED AS OFTEN AS NECESSARY UNTIL APPROVED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

3.11 SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS:

A. LAYOUTS AND CERTIFIED EQUIPMENT MANUFACTURER'S DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION, ERECTION OR PURCHASE.

B. SHOP DRAWINGS SHALL INCLUDE BUT SHALL NOT NECESSARILY LIMITED TO: PLUMBING FIXTURES AND TRIM, PIPING, PIPE INSULATION, SHOCK ARRESTORS, VALVES, TRAP PRIMERS, WATER HEATERS, CLEANOUTS AND FLOOR DRAINS.

C. CERTIFICATION SHALL BE SUBMITTED BY THE CONTRACTOR ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY ALL EQUIPMENT.

3.12 CLEANING AND TESTS:

A. THE CONTRACTOR SHALL KEEP THE BUILDING AND SITE CLEAN FROM THEIR OWN RUBBISH AND/OR WASTE MATERIALS AND, UPON COMPLETION OF THEIR CONTRACT, SHALL LEAVE THE BUILDING, SITE AND INSTALLATION IN A CLEAN CONDITION COMPLETELY ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

B. CLEAN AND TEST ALL NEW AND EXISTING PLUMBING SYSTEMS, FIXTURES AND EQUIPMENT.

C. IF ANY PART OF A SYSTEM SHOULD BE STOPPED BY ANY FOREIGN MATTER AFTER BEING PLACED IN OPERATION, CLEAN AND RECONNECT SYSTEM.

3.13 OPERATING AND MAINTENANCE INSTRUCTIONS:

A. AFTER FINAL TESTS AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATIONS FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT WHICH SHALL BE OBTAINED FROM THE OPERATOR SHALL BE CONSTRUED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORY.

B. FURNISH THREE (3) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL MANUAL OPERATING PROCEDURES, AUTOMATIC CONTROL DESCRIPTIONS AND AUTOMATIC TEMPERATURE & PRESSURE SETTINGS WRITTEN DESCRIPTIONS SHALL INCLUDE LUBRICATION SCHEDULES, PARTS LIST, PERFORMANCE SERVICES FOR EQUIPMENT, FILTER SIZE/QUANTITY SCHEDULE, ETC. WHEN MANUFACTURER STANDARD INSTRUCTIONS ARE UTILIZED, THEY SHALL BE CLEARLY MARKED AS TO INDICATED APPLICABILITY.

C. AT THE END OF THE PROJECT, THE PLUMBING CONTRACTOR SHALL FURNISH THE FOLLOWING: APPROVED OPERATING INSTRUCTIONS FOR EACH PRINCIPAL ITEM OF EQUIPMENT FOR THE USE OF THE OPERATION AND MAINTENANCE PERSONNEL. THE OPERATING INSTRUCTIONS SHALL INCLUDE WIRING DIAGRAMS, CONTROL DIAGRAMS, AND CONTROL SEQUENCE FOR EACH PRINCIPAL ITEM OF EQUIPMENT. OPERATING INSTRUCTIONS SHALL BE PRINTED OR ENGRAVED, AND SHALL BE FRAMED UNDER GLASS OR IN AN APPROVED LAMINATED PLASTIC & POSTED WHERE DIRECTED BY ENGINEER. OPERATING INSTRUCTIONS SHALL BE ATTACHED TO OR POSTED ADJACENT TO EACH PRINCIPAL ITEM OF EQUIPMENT. INCLUDE START UP, PROPER ADJUSTMENT, OPERATING, LUBRICATION, SHUT-DOWN, SAFETY-PRECAUTIONS, PROCEDURE IN THE EVENT OF EQUIPMENT FAILURE, AND OTHER ITEMS OF EQUIPMENT. OPERATING INSTRUCTIONS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED. OPERATING INSTRUCTIONS SHALL NOT FADE WHEN EXPOSED TO SUNLIGHT & SHALL BE SECURED TO PREVENT REMOVAL OR PEELING.

D. PROVIDE VALVE TAGS & VALVE CHARTS.

3.14 AS-BUILT DRAWINGS

A. AS-BUILT DRAWINGS, INDICATING ALL MODIFICATIONS RELATIVE TO CONTRACT DRAWINGS DURING THE PROGRESS OF THE WORK, SHALL MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE AS-BUILT DRAWINGS SHALL INCLUDE CHANGES IN MANUFACTURERS (WITH MODEL NUMBERS AND TRADE NAMES). MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S REPRESENTATIVE AT COMPLETION OF WORK-ONE (1) DIGITAL AND THREE (3) COPIES OF PRINTS.

3.15 GUARANTEES:

A. EXCEPT AS OTHERWISE SPECIFIED, ALL WORK SHALL BE GUARANTEED TO BE FREE FROM LEAKS OR OTHER DEFECTS RESULTING FROM THE USE OF INFERIOR MATERIALS, EQUIPMENT, OR WORKMANSHIP. ALL DEFECTIVE MATERIAL OR WORKMANSHIP AS WELL AS DAMAGES TO THE WORK OF ALL TRADES RESULTING FROM SAME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

B. THE GUARANTEE PERIOD SHALL BE FOR ONE (1) YEAR FORM THE DATE OF ACCEPTANCE, WHICH SHALL BE THE DATE OF FINAL PAYMENT OR THE DATE OF FORMAL NOTICE OF ACCEPTANCE, WHICHEVER IS EARLIER.

C. CERTIFICATION SHALL BE SUBMITTED BY THE CONTRACTOR ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY ALL EQUIPMENT.

D. IF, WITHIN ANY GUARANTEE PERIOD, REPAIRS OR CHANGES TO GUARANTEED WORK ARE REQUIRED AS A RESULT OF THE USE OF DEFECTIVE MATERIALS OR EQUIPMENT, INFERIOR WORKMANSHIP OR WORK THAT IS NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT, AND UPON RECEIPT OF NOTICE FROM THE OWNER, THE FOLLOWING SHALL BE DONE WITHOUT EXPENSE TO THE OWNER:

1. PLACE IN SATISFACTORY CONDITION IN EVERY PARTICULAR ALL OF SUCH GUARANTEED WORK AND CORRECT ALL DEFECTS THEREIN.

2. REPAIR ALL DAMAGE TO THE BUILDING OR SITE/EQUIPMENT OR CONTENTS THEREOF WHICH IS THE RESULT OF THE USE OF DEFECTIVE MATERIALS OR EQUIPMENT OR INFERIOR WORKMANSHIP, OR OF WORK NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT.

3. MAKE GOOD ANY WORK OR MATERIALS, OR THE EQUIPMENT AND CONTENTS OF SAID BUILDING OR SITE DISTURBED IN FULFILLING ANY SUCH GUARANTEE.

E. IN FULFILLING THE REQUIREMENTS OF THE CONTRACT OR OF ANY GUARANTEE EMBRACED IN OR REQUIRED THEREBY, ANY WORK GUARANTEED UNDER ANOTHER CONTRACT IS DISTURBED, RESTORE SUCH DISTURBED WORK TO ORIGINAL CONDITION AND GUARANTEE SUCH RESTORED WORK TO THE SAME EXTENT AS IT WAS GUARANTEED UNDER SUCH OTHER CONTRACT.

F. IF UPON FAILURE TO PROCEED PROMPTLY AFTER NOTICE TO COMPLY WITH THE TERMS OF THE GUARANTEE, THE OWNER MAY HAVE THE DEFECTS CORRECTED AND CONTRACTOR AND THEIR SURETY SHALL BE LIABLE FOR ALL EXPENSES INCURRED.

3.16 ELECTRICAL WORK

A. ELECTRICAL COMPONENTS OF PLUMBING EQUIPMENT AND SYSTEMS, SUCH AS MOTORS, FACTORY MOUNTED STARTERS, FACTORY MOUNTED DISCONNECTS AND CONTROL EQUIPMENT SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

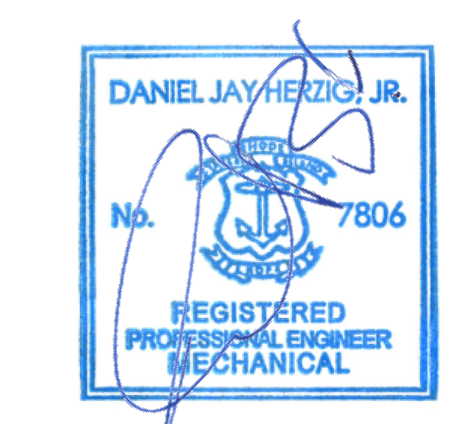
B. RELAYS AND WIRING REQUIRED FOR INTERLOCKING SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

3.17 SAFETY

A. COMPLY WITH ALL OF THE SAFETY REQUIREMENTS OF OSHA THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT.

B. FURNISH, PLACE AND MAINTAIN PROPER GUARDS FOR PREVENTION OF ACCIDENTS AND ANY OTHER NECESSARY CONSTRUCTION REQUIRED TO SECURE SAFETY OF LIFE AND/OR PROPERTY.

Certification



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Project

TOWN OF BRISTOL, R.I.

ROGERS FREE LIBRARY INTERIOR MODIFICATIONS

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Sheet Contents
PLUMBING SPECIFICATIONS

Project Number. 6846

Drawing No. P800

Sheet of

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	FIRE PROTECTION DEMOLITION
	FIRE PROTECTION EQUIPMENT
	NEW WET SPRINKLER PIPING
	EXISTING WET SPRINKLER PIPING TO REMAIN
	NEW DRY SPRINKLER PIPING
	EXISTING DRY SPRINKLER PIPING TO REMAIN
	NEW SPRINKLER DRAIN PIPING
	PIPE RISER UP (& DOWN)
	PIPE DROP AND RUN
	PIPE DROP
	PIPE TEE DROP
	PIPE TEE OFF TOP
	CONNECT TO EXISTING
FCA	FLOOR-ZONE CONTROL VALVE ASSEMBLY (COMBINATION) (BUTTERFLY VALVE, CHECK VALVE, GAUGE, FLOW SWITCH)
	HOSE VALVE CONNECTION
	CHECK VALVE
	OS&Y VALVE
	INDICATING BUTTERFLY VALVE
	BALL VALVE
	VALVE IN VERTICAL
	DRAIN VALVE W/HOSE CONNECTION
	PRESSURE GAUGE
	ELECTRIC ALARM BELL
	UNION
	PIPE FLUSHING CAP
	PIPE CONTINUATION
FS	FLOW SWITCH
TS	TAMPER SWITCH

ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ARCH	ARCHITECT
BAL	BALANCING STATION
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTUM OF DUCT
BTU	BRITISH THERMAL UNITS
BV	BALL VALVE
CO	CLEANOUT
COP	CENTER OF PIPE
CP	CONDENSATE PUMP
CPL	CONTROL PANEL
CPT	CHROME PLATED
CTE	CONNECT TO EXISTING
CV	CONVECTOR
CV	CONTROL VALVE
CW	COLD WATER
DDC	DIRECT DIGITAL CONTROL
DB	DRY BULB
DCO	DANDY CLEANOUT
DHE	DOMESTIC WATER HEATER EXCHANGER
DIA	DIAMETER
DN	DOWN
DR	DROP
DV	DRAIN VALVE
DWG	DRAWING
DX	DIRECT EXPANSION
EC	ELECTRICAL CONTRACTOR
EC	EXTENDED COVERAGE
EFF	EFFICIENCY
ELEC	ELECTRICAL
ELV	ELEVATION
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EX	EXISTING
EXP	EXPANSION
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FCO	FLOOR CLEANOUT
FCA	FLOOR CONTROL ASSEMBLY (PRESSURE GAUGE, FLOW SWITCH, TEST & DRAIN CONNECTION)
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FMS	FLOW MEASURING STATION
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FTT	FLAT TOP TRANSITION
FT	FEET
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB-SEE DETAIL
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AND AIR
HVU	HEATING & VENTILATION UNIT
HZ	HERTZ
IN	INCHES
KW	KILOWATT
LF	LINEAR FEET
MECH	MECHANICAL
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
MX	MIXING VALVE
N	NEW
NA	NOT APPLICALBLE
NC	NORMALLY CLOSED
NEZV	NONE ELECTRIC ZONE VALVE
NFWH	NON-FREEZE WALL HYDRANT-SEE DETAIL
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NP	NON POTABLE WATER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PLG	PLUMBING
PR	PANEL RADIATOR
PRV	PRESSURE REDUCING VALVE
PS	PIPE SLOPE
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
QR	QUICK RESPONSE
RE	REMOVE EXISTING
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND REPLACE
RTU	ROOF TOP UNIT
SC	SITE CONTRACTOR
SCT	SATURATED CONDENSING TEMPERATURE
SF	SQUARE FEET
SQ	SQUARE
SR	STANDARD RESPONSE
SS	STAINLESS STEEL
STL	STEEL
SV	BALL OR GATE SHUTOFF VALVE
T	THERMOSTATE
TH	THERMOMETER
TS	TAMPER SWITCH
TU	TERMINAL UNIT
TYP	TYPICAL
UC	UNDERCUT DOOR 3/4 "MIN.
UF	UNDER FLOOR
UG	UNDER GROUND
VIF	VERIFY (SIZE, LOCATION, ELEVATION) IN FIELD
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
ZV	ZONE VALVE

FIRE PROTECTION SCOPE OF WORK

1. THE SCOPE OF WORK INCLUDES THE INSTALLATION OF A NEW AUTOMATIC SPRINKLER SYSTEM IN (***BUILDING NAME**), (***LOCATION***)
2. THE WORK INCLUDES INSTALLATION OF A NEW FIRE SERVICE IN THE (***LOCATION***), TO INCLUDE ALL REQUIRED PIPING, VALVES, FITTINGS, AND COMPONENTS. THIS ALSO INCLUDES ADDITIONAL MATERIALS, FITTINGS ETC., WHICH ARE NOT SHOWN ON THE DRAWINGS TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
3. THE WORK INCLUDES CONNECTION OF WATER FLOW AND VALVE SUPERVISORY SWITCHES TO THE FIRE ALARM SYSTEM.
4. THE WORK INCLUDES INSTALLATION OF A FLOOR CONTROL ASSEMBLY AT EACH POINT OF CONNECTION TO THE RISER FOR ZONE ISOLATION AND SUPERVISION.
5. THE WORK INCLUDES COORDINATION OF ALL OBSTRUCTIONS TO NEW SPRINKLER PIPING.
6. THE WORK INCLUDES INSTALLATION OF ANY DRAIN PIPING NECESSARY FOR PROPER SYSTEM OPERATION. THIS INCLUDES INSPECTORS TEST CONNECTIONS, DRAIN VALVES, AND PIPING. DRAINS SHALL BE PIPED DIRECTLY TO THE OUTSIDE TO A LOCATION APPROVED BY CREATIVE AND COORDINATED WITH THE ARCHITECT.
7. THE WORK INCLUDES THE INSTALLATION OF A NEW SIAMESE FIRE DEPARTMENT CONNECTION ON THE EXTERIOR OF THE BUILDING.

SPECIFIC SPRINKLER SYSTEM DESIGN CRITERIA

MODIFY THE EXISTING SPRINKLER SYSTEM FOR AREAS INDICATED ON THE DRAWINGS. SEE GENERAL NOTES BELOW FOR FURTHER INSTALLATION INFORMATION. THE EXISTING AUTOMATIC WET PIPE SPRINKLER SYSTEM SHALL BE DESIGNED AND MODIFIED PER NFPA 13 2016 EDITION & THE STATE BUILDING & FIRE CODES.

CODES AND AUTHORITIES:

LOCAL BUILDING INSPECTOR'S OFFICE, BRISTOL FIRE DEPT, NFPA 13 2016 EDITION, AND NFPA 101 2018 EDITION.

HAZARD CLASSIFICATION:

LIGHT HAZARD - 0.10 GPM/SQ. FT. OVER 1500 SQ. FT.
ORDINARY HAZARD - GROUP 1 - 0.15 GPM OVER 1500 SQ. FT. - MECHANICAL ROOMS, ELECTRICAL ROOMS AND JANITOR'S CLOSET'S.

COVERAGE PER SPRINKLER:

225 SQ. FT. - STANDARD COVERAGE MAXIMUM - LIGHT HAZARD
130 SQ. FT. - STANDARD COVERAGE MAXIMUM - ORD. HAZARD

MINIMUM PRESSURES AND FLOWS PER SPRINKLER SHALL BE BASED ON MANUFACTURER'S PUBLISHED CRITERIA.

INSTALLATION REQUIREMENTS:

1. WHEN LOCATING NEW SPRINKLERS, PAY CLOSE ATTENTION TO ALL ASSOCIATED ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REFLECTED CEILING PLANS SHALL BE LOCATED ON THE SPRINKLER SHOP DRAWINGS AND SPRINKLERS SHALL BE LOCATED ACCORDING TO NFPA 13 2016, CHAPTER 8 INSTALL SPRINKLERS IN THE CENTER OF EACH TILE (BOTH WAYS).
2. ANY CONFLICTS FOUND BY THE CONTRACTOR SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION, DO NOT PROCEED WITH WORK IN AREA OF CONFLICT UNTIL A RESOLUTION HAS BEEN AGREED UPON BETWEEN ALL PARTIES INVOLVED AND NOTIFICATION HAS BEEN RECEIVED FROM ARCHITECT.
3. THE FIRE PROTECTION CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL AND STAMPED DRAWINGS FROM THE LOCAL FIRE MARSHAL'S OFFICE BEFORE ORDERING AND INSTALLING ANY PIPING.

SPRINKLER SYSTEM GENERAL NOTES

1. THE FIRE PROTECTION CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS FOR THIS PROJECT PRIOR TO SUBMITTAL OF PROPOSAL AND THOROUGHLY FAMILIARIZE THEMSELVES WITH CONDITIONS THAT WILL AFFECT THE PERFORMANCE OF THE WORK. FAILURE TO DO SO WILL NOT ENTITLE THEM TO ANY ADDITIONAL COMPENSATION FOR PROVIDING A COMPLETE AND APPROVED SPRINKLER SYSTEM.
2. COORDINATE WORK WITH ALL TRADES PRIOR TO INSTALLATION. COORDINATE NEW SPRINKLER LOCATIONS WITH ALL LIGHTS, DUCTWORK, DIFFUSERS & REGISTERS, CEILING MOUNTED FIXTURES, STRUCTURAL BEAMS AND ELECTRICAL EQUIPMENT. ADJUST LOCATIONS AS REQUIRED TO COMPLY WITH THE OBSTRUCTIONS RULES OF NFPA 13 2016 EDITION.
3. THE DRAWINGS SHOW PREFERRED HEAD AND PIPE LOCATIONS IN AREAS DEEMED CRITICAL FOR COORDINATION. THE NUMBER AND LOCATION OF HEADS, AND THE ROUTING AND SIZE OF PIPES IS NOT INTENDED TO FURNISH A FINISHED LAYOUT. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER COVERAGE FOR ALL AREAS OF THE BUILDING IN ACCORDANCE WITH THE PERFORMANCE SPECIFICATION OF THE PROJECT MANUAL. ALL PIPE AND HEAD LOCATIONS SHALL BE COORDINATED BY THIS CONTRACTOR WITH THE WORK OF OTHER TRADES. SUBMIT WORKING DRAWINGS TO THE LOCAL AHJ FOR REVIEW AND APPROVAL. INCORPORATE ALL COMMENTS.
4. COORDINATE THE STYLE AND LOCATIONS OF ALL CEILING TYPES AND HEIGHTS WITH THE ARCHITECTURAL DRAWINGS. INSTALL PENDENT SPRINKLERS IN ALL DROPPED CEILINGS ON CENTER OF TILES BOTH WAYS.
5. INSTALL UPRIGHT SPRINKLERS ABOVE ALL SUSPENDED CEILINGS WHERE COMBUSTIBLE MATERIALS ARE PRESENT AS REQUIRED BY NFPA 13, 2016. OWNER MUST MAINTAIN A TEMP. OF 40°F OR HIGHER FOR WET SPRINKLER SYSTEM IN THE FLOOR/CEILING SPACE.
6. SPRINKLERS SHALL BE INSTALLED UNDER FIXED OBSTRUCTIONS OVER 4'-0" WIDE SUCH AS DUCTS, AND MECHANICAL EQUIPMENT (PER NFPA 13, 2016, SEC 8.6.5.3.3)
7. INSTALL INTERMEDIATE TEMPERATURE SPRINKLERS WHERE SPRINKLERS ARE PLACED NEAR UNIT HEATERS, IN ALL MECHANICAL ROOMS AND AS REQUIRED PER NFPA 13, 2016, SEC 8.3.2.5 (RI). COORDINATE WITH HVAC DRAWINGS.

SPRINKLER SYSTEM DEMOLITION NOTES

1. THE FIRE PROTECTION CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS FOR THIS PROJECT PRIOR TO SUBMITTAL OF PROPOSAL AND THOROUGHLY FAMILIARIZE THEMSELVES WITH CONDITIONS THAT WILL AFFECT THE PERFORMANCE OF THE WORK. FAILURE TO DO SO WILL NOT ENTITLE THEM TO ANY ADDITIONAL COMPENSATION FOR PROVIDING A COMPLETE AND APPROVED SPRINKLER SYSTEM.
2. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE SYSTEM SHUT DOWN WITH THE GENERAL CONTRACTOR AND THE BUILDING MAINTENANCE PERSONNEL. PROVIDE A FIRE WATCH FOR THE DURATION OF THE SYSTEM SHUT DOWN.
3. THIS DRAWING INDICATES THE APPROXIMATE LOCATION OF THE EXISTING SPRINKLERS. REMOVE EXISTING SPRINKLERS WITHIN THE AREA OF THIS PHASE OF DEMOLITION. THE EXISTING PIPE DROPS CAN BE MODIFIED AS REQUIRED.
4. EXISTING MAINS AND BRANCH LINES TO REMAIN.
5. REMOVE AND DISPOSE OF ALL DEMOLISHED PIPING, SPRINKLERS AND HANGERS.
6. PROVIDE TEMPORARY FIRE PROTECTION FROM DEMO PHASE TO CONSTRUCTION PHASE.
7. PROVIDE FIRE WATCH WHILE SPRINKLER SYSTEM IS SHUT DOWN AND WORK BEING PERFORMED. SYSTEM SHALL BE PUT BACK IN SERVICE AT THE END OF EACH DAY WITH TEMPORARY PROTECTION IN AREAS NOT FINISHED.

PIPING INSTALLATION NOTES

1. FIRESTOP SYSTEMS ARE NOT REQUIRED FOR PENETRATIONS THROUGH WALLS WHICH DO NOT HAVE A FIRE RESISTANCE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS WHICH HAVE A FIRE-RESISTANCE RATING. ALL VOIDS IN AND AROUND PIPE SLEEVES IN NON-RATED WALLS SHALL BE FILLED WITH MINERAL WOOL TO PREVENT THE MOVEMENT OF SMOKE.
2. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEARANCE AROUND ALL PIPING FOR SEISMIC PROTECTION AND PIPE SLEEVES WITH FIRESTOP MATERIALS.
3. PIPE SLEEVES SHALL HAVE A NOMINAL DIAMETER 2" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE FOR PIPE SIZES 1" THROUGH 3".
4. PIPE SLEEVES SHALL HAVE A NOMINAL DIAMETER 4" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE FOR PIPE SIZES 4" AND LARGER.
5. FLEXIBLE COUPLINGS ARE ACCEPTABLE ON EACH SIDE OF WALL. THE NOMINAL DIAMETER OF THE SLEEVE SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF THE PIPE WHEN FLEXIBLE COUPLINGS ARE USED.
6. REFER TO SPECIFICATIONS FOR FIRESTOP MATERIALS TO BE USED. ALL SYSTEMS SHALL BE U.L. LISTED.
7. SLEEVES THROUGH LOAD BEARING WALLS SHALL BE SCHEDULE 40 BLACK STEEL PIPE. OTHER PIPE SLEEVE MATERIALS ARE ACCEPTABLE PROVIDED THEY HAVE BEEN TESTED AS PART OF THE FIRE RATED ASSEMBLY. ALL PIPE SLEEVES THROUGH EXTERIOR WALLS SHALL BE GALVANIZED STEEL.
8. INSTALL AIR RELEASE VALVES AT ALL HIGH POINTS IN PIPING SYSTEM AND DRAIN VALVES AT ALL LOW POINTS.
9. THE FIRE PROTECTION CONTRACTOR SHALL CONSIDER THE ELECTRICAL, MECHANICAL, STRUCTURAL, ARCHITECTURAL AND CIVIL DRAWINGS AS AN INTEGRAL PART OF HIS BID PACKAGE AND SHALL REVIEW ALL ASSOCIATED DRAWINGS AND DETAILS DURING THE BID PROCESS.

FIRE PROTECTION SCOPE OF WORK

1. MODIFY SPRINKLER HEAD LOCATIONS PER THE ARCHITECTURAL PROGRAMMING.

FIRE PROTECTION SHEET LIST

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by NJC

Checked by NJC

Revised on

CEC Project: 20241248

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Sheet Contents

FIRE PROTECTION LEGEND & ABBREVIATIONS

Project Number. 6846

Drawing No.

FP000

Sheet of

SPRINKLER SCHEDULE OVERALL

Symbol	Count	NPT	K-Factor	Description	Note
◁	5	1/2"	0	EXISTING SIDEWALL SPRINKLER HEAD	
◎	24	1/2"	0	EXISTING PENDENT SPRINKLER HEAD	

SPRINKLER SYSTEMS NOTES

THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL FIRE PROTECTION SYMBOLS; UNLESS OTHERWISE NOTED:

N = NEW SPRINKLER HEAD.
RP = REMOVE EXISTING & PLUG THE SPINKLER FITTING.
ETR = EXISTING TO REMAIN.
RE = REMOVE EXISTING SPRINKLER RETURN BEND OR FLEXIBLE SPRINKLER AND PLUG THE FITTING AT THE BRANCH
CTE = CONNECT TO EXISTING.
RN = RELOCATED EXISTING SPRINKLER HEAD.

FIRE PROTECTION GENERAL SHEET NOTES

1 REFER TO ARCHITECTURAL DRAWINGS.

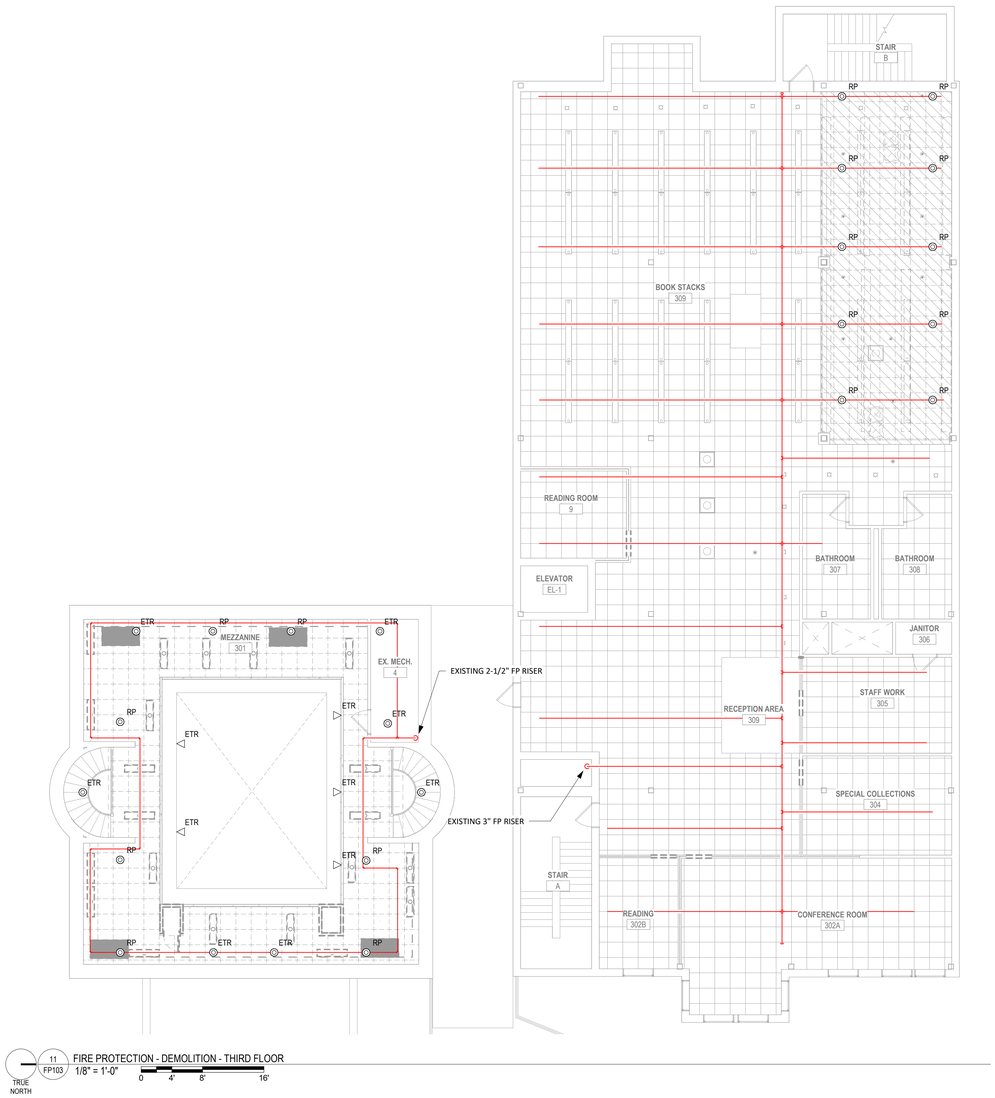
2 CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.

6 PROTECT SPRINKLER HEADS WITH PROTECTIVE CAPS DURING INSTALLATION PROCESS PER NFPA 13 6.2.6.2

7 NOTE THAT FIRE PROTECTION SERVICES SERVE OTHER AREAS, COORDINATE ANY SHUT-DOWNS WITH OWNER.

8 FIRE PROTECTION CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR.

9 DEMOLISHED EQUIPMENT IS NOT INTENDED FOR RE-USE.



11 FP103 FIRE PROTECTION - DEMOLITION - THIRD FLOOR
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH

Certification

DANIEL JAY HERZIG JR.
No. 7806
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

Drawn by NJC
Checked by NJC
Revised on

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FIRE PROTECTION - DEMOLITION - THIRD FLOOR

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Drawing No.
FP103

Sheet of

SPRINKLER SCHEDULE OVERALL

Symbol	Count	NPT	K-Factor	Description	Note
◁	5	1/2"	0	EXISTING SIDEWALL SPRINKLER HEAD	
⊚	24	1/2"	0	EXISTING PENDENT SPRINKLER HEAD	
◉	7	1/2"	5.6	NEW PENDENT SPRINKLER HEAD	

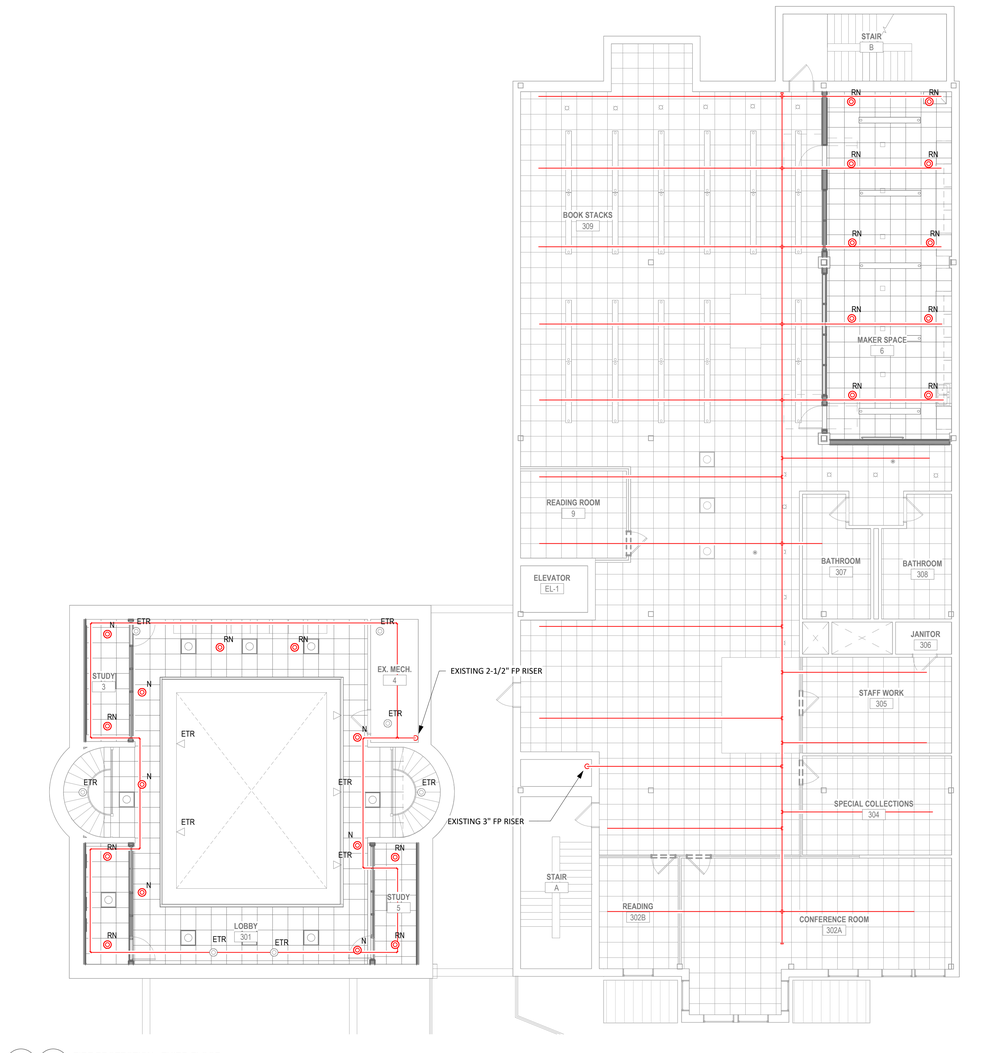
SPRINKLER SYSTEMS NOTES

THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL FIRE PROTECTION SYMBOLS; UNLESS OTHERWISE NOTED:

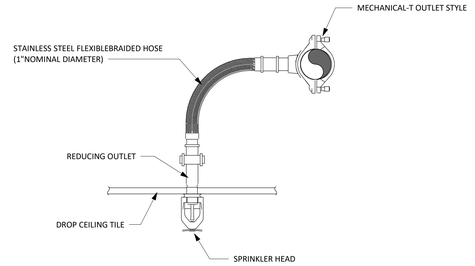
N = NEW SPRINKLER HEAD.
RP = REMOVE EXISTING & PLUG THE SPINKLER FITTING.
ETR = EXISTING TO REMAIN.
RE = REMOVE EXISTING SPRINKLER RETURN BEND OR FLEXIBLE SPRINKLER AND PLUG THE FITTING AT THE BRANCH
CTE = CONNECT TO EXISTING.
RN = RELOCATED EXISTING SPRINKLER HEAD.

FIRE PROTECTION GENERAL SHEET NOTES

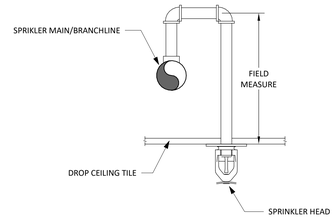
1 REFER TO ARCHITECTURAL DRAWINGS.
2 ALIGN NEW SPRINKLER HEADS TO CENTER OF CEILING TILES WHERE APPLICABLE.
3 ALIGN NEW SPRINKLER HEADS TO ADJACENT LIGHTING/DIFFUSERS WHERE APPLICABLE
4 USE OF FLEXIBLE SPRINKLER HOSE CONNECTIONS ARE PERMITTED AND MUST ABIDE BY THE STANDARDS OF NFPA 13 AND ANSI/UL 2443. LISTED FLEXIBLE HOSE LENGHTS SHALL NOT EXCEED 6' PER UL 2443.
5 NOTE THAT FIRE PROTECTION SERVICES SERVE OTHER AREAS, COORDINATE ANY SHUT-DOWNS WITH OWNER.
6 FIRE PROTECTION CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR.
7 SEE FIRE SPRINKLER SCHEDULE FOR SPRINKLER CONNECTION SIZES.



1 FP203 FIRE PROTECTION - THIRD FLOOR
1/8" = 1'-0"
0 4' 8' 16'



2 FP203 BRAIDED FLEXIBLE PENDANT SPRINKLER
NOT TO SCALE



3 FP203 TYPICAL SPRINKLER RETURN BEND
NOT TO SCALE

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Sheet Contents
FIRE PROTECTION - THIRD FLOOR

Project Number. 6846

Drawing No.
FP203

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FIRE PROTECTION SPECIFICATIONS

PART I GENERAL

1.01 GENERAL REQUIREMENTS:

A. SCOPE OF WORK SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, HOISTING, RIGGING, INSURANCE, ETC., TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND HEREIN SPECIFIED FOR A COMPLETE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL CODES AND ORDINANCES HAVING JURISDICTION, AS INTERPRETED BY THE ARCHITECT/ENGINEER.

B. APPLY AND PAY FOR ALL NECESSARY INSPECTION FEES, LICENSES AND PERMITS REQUIRED BY THE PROPER AUTHORITIES HAVING JURISDICTION.

C. SUBMIT SHOP DRAWINGS OF ALL FIRE PROTECTION EQUIPMENT AND RECORD DRAWINGS FOR ALL WORK PROVIDED UNDER THIS CONTRACT TO THE ARCHITECT/OWNER FOR THEIR USE PRIOR TO ORDERING, FABRICATING OR INSTALLING SAME.

D. ALL MATERIALS SHALL BE NEW. ALL EQUIPMENT SHALL BEAR THE U.L./FM LABEL.

E. CONTRACTOR SHALL PREPARE COMPOSITE WORKING "COORDINATION" DRAWINGS AND SECTIONS AT SCALE NOT LESS THAN ¼" = 1'-0" CLEARLY SHOWING HOW THEIR WORK IS TO BE INSTALLED IN RELATION TO WORK OF OTHER TRADES. THE CONTRACTOR SHALL IDENTIFY ANY CONFLICTS AND REQUEST ASSISTANCE FROM THE ARCHITECT / ENGINEER FOR ASSISTANCE IN RESOLVING A FIELD CONDITION IN ORDER TO COMPLETE THE WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE GRANTED OR AWARDED FOR RESOLVING COORDINATION ISSUES SINCE THIS IS CONSIDERED PART OF THIS CONTRACTORS DUTIES. IF THE CONTRACTOR INSTALLS THEIR WORK BEFORE COORDINATING WITH OTHER TRADES OR AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES THEY SHALL MAKE NECESSARY CHANGES TO THEIR WORK TO CORRECT THE CONDITION WITH OUT ADDITIONAL COST TO THE OWNER.

F. RECORD DRAWINGS: THE CONTRACTOR SHALL KEEP DAILY UPDATED ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED ON THE CONTRACT DRAWINGS. EACH CONTRACTOR SHALL RECORD CLEARLY, NEATLY, ACCURATELY, AND PROMPTLY AS WORK PROGRESSES THE FOLLOWING DATA: CHANGES MADE RESULTING FROM CHANGE ORDERS OR INSTRUCTIONS OR SKETCHES ISSUED BY THE A/E. CHANGES IN ROUTING MADE TO AVOID CONFLICT WITH OTHER TRADES OR STRUCTURAL CONDITIONS. FINAL LOCATION OF EQUIPMENT AND PANELS IF DIFFERENT THAN CONTRACT DOCUMENTS. THE RECORD DRAWINGS SHALL BE KEPT AT THE JOB SITE, AVAILABLE TO THE OWNER AT ALL TIMES AND LABELED AS "PROJECT RECORD INFORMATION - JOB SET". WHEN WORK IS COMPLETED, ONE COMPLETE SET OF MARKED-UP ORIGINAL PRINTS, UPDATED CAD DRAWINGS WITH ALL CHANGES LISTED ABOVE AND A CD WITH CAD FILES SHALL BE DELIVERED TO THE A/E FOR APPROVAL. ALL CAD FILES REQUESTED BY THE CONTRACTOR WILL BE GIVEN TO THE CONTRACTOR AT A COST OF $250.00 PER DRAWING/SHEET.

1.02 SCOPE OF WORK:

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, CONTROLS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.

B. WITHOUT LIMITING GENERALITY, PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE SPRINKLER SYSTEM AS DESCRIBED BELOW:

1. WET PIPE SPRINKLER SYSTEM.
2. SPRINKLERS AND NIPPLES.
3. HANGERS AND SUPPORTS.
4. FLUSHING, INSPECTIONS & TESTING.
5. PERMITS AND FEES.

C. THE WORK INCLUDED UNDER THIS CONTRACT SHALL INCLUDE A COMPLETE FIRE PROTECTION SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS BUT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED, DELIVERED AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSES TO THE OWNER.

D. THE CONTRACTOR SHALL NOTE THAT ALL ITEMS OF EQUIPMENT ARE SPECIFIED IN THE SINGULAR. HOWEVER, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ITEMS OF EQUIPMENT AS INDICATED ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE SYSTEM.

E. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "PROVIDE AND INSTALL COMPLETE AND READY FOR USE."

F. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER INSTALLATION AND OPERATIONS SHALL BE INCLUDED IN THE CONTRACTORS WORK, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.

G. THE DRAWINGS SHOW THE LAYOUT OF THE FIRE PROTECTION SYSTEMS AND INDICATE THE APPROXIMATE LOCATIONS OF SPRINKLERS, PIPING, APPARATUS, AND EQUIPMENT. THE RUNS AND QUANTITY OF SPRINKLERS AND PIPING AS SHOWN ON THE DRAWINGS ARE SCHEMATIC ONLY. THE EXACT ROUTING OF QUANTITY SPRINKLERS AND PIPING SHALL BE DETERMINED BY THE STRUCTURAL CONDITIONS AND POSSIBLE OBSTRUCTIONS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT THE DESIGN OF THE SYSTEMS MAY BE CHANGED, BUT REFERS ONLY TO EXACT RUNS BETWEEN GIVEN POINTS. THE ENGINEER RESERVES THE RIGHT TO REVISE THE DRAWINGS FROM TIME TO TIME TO INDICATE CHANGES IN THE WORK.

1.03 COORDINATION:

A. THIS CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT.

B. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.

C. FIRE PROTECTION EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR THEIR REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.

D. IT SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO STUDY ALL CONSTRUCTION DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.

E. FIRE PROTECTION WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. VALVES, SPRINKLERS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

F. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH THE GENERAL CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER.

1.04 INTERPRETATION OF DRAWINGS:

A. FIRE PROTECTION EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE.

B. THE CONTRACTOR SHALL LOCATE EQUIPMENT, WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO: VALVES, SPRINKLERS, DRAIN POINTS, ETC. IF REQUIRED FOR BETTER ACCESSIBILITY, FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY, AND ANY CHANGE SHALL BE APPROVED.

C. COMPARE ACTUAL SITE CONDITIONS WITH THE DRAWINGS AND SPECIFICATIONS AND INCLUDE ADDITIONAL WORK WHICH CAREFUL EXAMINATION WOULD DISCLOSE. BEFORE THE BIDDING PERIOD, ADVISE THE A/E OF ANY OMISSION, ERROR OR CONFLICT IN THE PLANS AND SPECIFICATIONS.

D. EQUIPMENT, SPRINKLER AND PIPING LOCATIONS, AS SHOWN, ARE DIAGRAMMATIC AND APPROXIMATE ONLY UNLESS FIXED BY DIMENSIONS. ACTUAL FIELD CONDITIONS AND PHYSICAL CHARACTERISTICS OF THE PRODUCT GOVERN EXACT LOCATIONS. WHERE POSSIBLE, ADHERE TO LOCATIONS ON DRAWING CONSISTENT WITH BUILDING CONSTRUCTION AND EQUIPMENT INSTALLED BY OTHERS.

E. CONTRACTOR SHALL NOT SCALE MEASUREMENTS FROM THE DRAWINGS BUT CHECK WITH GENERAL CONTRACTOR'S LATEST DRAWINGS, SHOP DRAWINGS, AND EQUIPMENT MANUFACTURERS INSTALLATION GUIDES BEFORE PROCEEDING WITH ANY WORK.

F. WORK LAYOUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, FOLLOWING MINIMUM REQUIREMENTS AS SET FORTH IN THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS.

G. WHERE HEAD ROOM OR SPACE CONDITIONS APPEAR INADEQUATE, A/E SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. IF DIRECTED BY A/E, CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK.

H. IF, IN CONTRACTOR'S OPINION, WORK IS SHOWN OR SPECIFIED IN MANNER OR AMOUNT AS TO MAKE IT IMPOSSIBLE TO INSTALL A FIRST-CLASS PIECE OF WORK OR FULFILLING INTENT OF A PERFECTLY EFFICIENT JOB WHEN COMPLETE, REFER SAME TO A/E IN WRITING BEFORE SUBMITTING PROPOSALS.

J. SHOULD CONTRACTOR FAIL TO REFER SUCH INSTANCES TO A/E AS REQUIRED ABOVE, NO EXCUSE FOR POOR, DEFECTIVE OR INCOMPLETE WORK WILL BE ACCEPTED.

1.05 GUARANTEES:

A. ALL WORK, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED AGAINST DEFECTS RESULTING FROM THE USE OF INFERIOR MATERIALS, EQUIPMENT, OR WORKMANSHIP FOR ONE YEAR FROM THE DATE OF FINAL COMPLETION OF THE CONTRACT, OR FROM FULL ACCEPTANCE BY THE OWNER, WHICHEVER IS EARLIER. ALL DEFECTIVE MATERIAL OR WORKMANSHIP AS WELL AS DAMAGES TO THE WORK OF ALL TRADES RESULTING FROM SAME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

B. THE GUARANTEE PERIOD SHALL BE FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, WHICH SHALL BE THE DATE OF FINAL PAYMENT OR THE DATE OF FORMAL NOTICE OF ACCEPTANCE, WHICHEVER IS EARLIER.

C. CERTIFICATION SHALL BE SUBMITTED BY THE CONTRACTOR ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY ALL EQUIPMENT.

D. IF, WITHIN ANY GUARANTEE PERIOD, REPAIRS OR CHANGES TO GUARANTEED WORK ARE REQUIRED AS A RESULT OF THE USE OF DEFECTIVE MATERIALS OR EQUIPMENT, INFERIOR WORKMANSHIP OR WORK THAT IS NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT, AND UPON RECEIPT OF NOTICE FROM THE OWNER, THE FOLLOWING SHALL BE DONE WITHOUT EXPENSE TO THE OWNER:

1. REPAIR ALL DAMAGE TO THE BUILDING OR SITE/EQUIPMENT OR CONTENTS THEREOF WHICH IS THE RESULT OF THE USE OF DEFECTIVE MATERIALS OR EQUIPMENT OR INFERIOR WORKMANSHIP, OR OF WORK NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT.

2. MAKE GOOD ANY WORK OR MATERIALS, OR THE EQUIPMENT AND CONTENTS OF SAID BUILDING OR SITE DISTURBED IN FULFILLING ANY SUCH GUARANTEE.

E. IN FULFILLING THE REQUIREMENTS OF THE CONTRACT OR OF ANY GUARANTEE EMBRACED IN OR REQUIRED THEREBY, ANY WORK GUARANTEED UNDER ANOTHER CONTRACT IS DISTURBED, RESTORE SUCH DISTURBED WORK TO ORIGINAL CONDITION AND GUARANTEE SUCH RESTORED WORK TO THE SAME EXTENT AS IT WAS GUARANTEED UNDER SUCH OTHER CONTRACT.

F. IF UPON FAILURE TO PROCEED PROMPTLY AFTER NOTICE TO COMPLY WITH THE TERMS OF THE GUARANTEE, THE OWNER MAY HAVE THE DEFECTS CORRECTED AND CONTRACTOR AND THEIR SURETY SHALL BE LIABLE FOR ALL EXPENSES INCURRED.

1.06 CONTRACTORS RESPONSIBILITIES:

A. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY INJURIES TO PEOPLE, EMPLOYEES OR DAMAGE DONE TO BUILDING PREMISES OR ADJOINING AREAS OR TO OTHER WORK RESULTING FROM EXECUTION ON THEIR PART OF WORK, IN ANY MANNER WHATSOEVER.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTION OF THEIR WORK, MATERIALS, PEOPLE OR EMPLOYEES FROM INJURY OR LOSS DONE BY OTHERS AND SHALL MAKE GOOD SUCH INJURY AT THEIR OWN EXPENSE.

C. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

D. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SAFETY OF CONTRACTOR' EMPLOYEES, MATERIALS OR EQUIPMENT.

PART II PRODUCTS

2.01 SPRINKLER SYSTEM PIPING, SPRINKLERS & ACCESSORIES:

A. NEW WET SPRINKLER PIPING SHALL BE SCHEDULE 40 FOR 1" THROUGH 2" FOR THREADED & GROOVED PIPING AND SCHEDULE 10 FOR GROOVED PIPING 2-1/2" THROUGH 6". PIPING SHALL BE STEEL ASTM A135, TYPE E, GRADE A (SCHEDULE 10) AND ASTM A795, TYPE E, GRADE A (SCHEDULE 40). PIPING SHALL BE STAMPED WITH MANUFACTURERS NAME, U.L. AND F.M. APPROVAL. FITTINGS SHALL BE UL LISTED/F.M. APPROVED. FOR SIZES 1" TO 2": CAST IRON THREADED FITTINGS MANUFACTURED IN ACCORDANCE WITH ASME-B16.4 (EXCEPT PLUGS AND BUSHINGS, ASME B16.14). FOR PIPING 2½" THROUGH 6": ROLL GROOVED, DUCTILE IRON FITTINGS CONFORMING TO ASTM A536, GRADE 65-45-12. ALL PIPING THROUGH EXTERIOR WALLS AND DRAIN PIPE SHALL BE GALVANIZED STEEL. FOR DRY SPRINKLER SYSTEM SEE "H" BELOW FOR MORE INFORMATION

B. FITTINGS, COUPLINGS, UNION AND REDUCERS SHALL HAVE A WORKING PRESSURE OF NOT LESS THAN 175 PSIG AND U.L. LISTED FOR FIRE PROTECTION SYSTEMS. GROOVED END FITTINGS AND COUPLINGS SHALL BE COMPATIBLE FROM THE SAME MANUFACTURER. GASKETS SHALL BE EPDM STANDARD GASKET STYLE.

C. PROVIDE UL LISTED & FM APPROVED QUICK RESPONSE SPRINKLERS. SPRINKLERS SHALL BE GLASS BULB TYPE AND HAVE 1/2" ORIFICE. UPRIGHT SPRINKLERS SHALL HAVE BRASS PLATED FINISH. UPRIGHT, PENDENT AND SIDEWALL SPRINKLER TYPES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. PROVIDE EXTENDED COVERAGE TYPE SPRINKLERS WHERE INDICATED IN THE CONTRACT DRAWINGS. PROVIDE UL LISTED & FM APPROVED DRY TYPE SPRINKLERS IN AREAS SUBJECT TO FREEZING. ALL ESCUTCHEONS SHALL BE CHROME FINISH. SPRINKLERS SHALL BE MANUFACTURED BY TYCO, VICTAULIC OR VIKING.

D. SPRINKLERS SHALL BE ORDINARY TEMPERATURE CLASSIFICATION WITH A TEMPERATURE RATING OF 155°F, EXCEPT IN AREAS SUBJECT TO ABNORMAL HEATING CONDITIONS. SPRINKLERS IN MECHANICAL & ELECTRIC ROOMS AND ABOVE CEILINGS SHALL HAVE A TEMPERATURE RATING OF 200°F.

E. PROVIDE BRASS WALL MOUNTED FIRE DEPARTMENT CONNECTION WITH BRASS CAP AND CHAINS PER AHJ REQUIREMENTS. PROVIDE BRASS TRIM RING LETTERED "AUTOMATIC SPRINKLER".

F. ALL FIRE PROTECTION HANGERS SHALL BE TOLCO/COOPER B-LINE ADJUSTABLE BAND TYPE WITH THREADED ROD. HANGER SPACING AND SIZE OF RODS SHALL BE ACCORDING TO NFPA 13, 2016 EDITION. THREADED ROD SHALL BE GALVANIZED WHERE EXPOSED TO WEATHER OR HUMID ENVIRONMENTS.
G. WELDED OUTLETS/CONNECTIONS ARE NOT ALLOWED ON THE GALVANIZED PIPING.
H. ALL GROOVED COUPLINGS SHALL HAVE "FLUSH SEAL" TYPE GASKETS.

2.02 VALVES & ACCESSORIES:

A. ALL VALVES SHALL BE U.L. LISTED & FM APPROVED AND STAMPED OR MARKED WITH MANUFACTURER'S NAME. VALVES SHALL BE INSTALLED WITH A 175 PSI PRESSURE RATING.

B. VALVES 2 INCHES OR SMALLER SHALL BE BRONZE, WITH RISING STEM & SCREWED ENDS. VALVES OVER 2-1/2" THRU 6" SHALL BE BUTTERFLY TYPE BUILT-IN TAMPER SWITCH.

C. CHECK VALVES SHALL BE IRON BODY, BRONZE MOUNTED, SWING TYPE, WITH GROOVED ENDS ON PIPING 2-1/2" & LARGER. CHECK VALVES 2" AND SMALLER SHALL BE ALL BRONZE WITH SCREWED ENDS.

D. BUTTERFLY VALVES SHALL BE EQUIPPED WITH BUILT-IN TAMPER SWITCH WITH TWO SETS OF CONTACTS.

E. BACKFLOW ASSEMBLY SHALL BE UL LISTED AND FM APPROVED, DESIGN FOR VERTICAL OR HORIZONTAL INSTALLATION, ASTM A-536 EPOXY-COATED DUCTILE IRON BODY, STAINLESS STEEL, NORTYL OR BRONZE INTERNAL CHECK VALVES, STAINLESS STEEL SPRINGS, EPDAA OR BRONZE SEATS. PROVIDE BUTTERFLY VALVES WITH BUILT-IN TAMPER SWITCHES.

F. PROVIDE SYSTEM DRAIN VALVES AND INSPECTORS TEST DRAINS AS PER NFPA 13 2013 EDITION AND AHJ. DRAINS SHALL BE PROVIDED AT LOW POINTS IN PIPING, AT BASE OF RISERS, AND WHEREVER NECESSARY FOR PROPER DRAINAGE.

G. PRESSURE SWITCHES, SUPERVISORY SWITCHES AND TAMPER SWITCHES SHALL BE U.L. APPROVED CLOSED CIRCUIT WITH ADJUSTABLE RETARD AND TWO SETS OF CONTACTS.

H. TAMPER/PRESSURE/SUPERVISORY SWITCHES SHALL BE U.L. APPROVED, TAMPER PROOF DIE CAST ALUMINUM HOUSING AND TWO SETS OF CONTACTS.

I. ELECTRIC BELL SHALL BE 8" ROUND 120V FURNISHED BY FIRE PROTECTION CONTRACTOR.

2.03 SMOKE AND FIRESTOPPING:

A. FIRESTOP ALL PIPING PASSING THROUGH FIRE RATED WALLS, SLABS, ETC. INSTALL STEEL, SCH. 40, SLEEVES EXTENDING 2" ABOVE FLOOR OR BEYOND WALL. THE SPACE BETWEEN THE PIPES AND THE SLEEVES SHALL BE PACKED WITH AN APPROVED FIRESTOPPING MATERIAL. THE SPACE BETWEEN PIPE SLEEVE AND FLOOR OR WALL SHALL BE FILLED WITH A SUITABLE FLOOR OR WALL MATERIAL. FIRESTOP MATERIAL SHALL BE MANUFACTURED BY HILTI FIRESTOP PRODUCTS AND SHALL BE FACTORY MUTUAL APPROVED, U.L. LISTED. SHEET METAL OR PVC SLEEVES SHALL NOT BE USED. SUBMIT SAMPLE OF FIRESTOP MATERIAL TO BE USED ON PROJECT TO THE STATE FIRE MARSHAL AND ENGINEER FOR REVIEW AND APPROVAL BEFORE PLACING ORDER.

PART III EXECUTION

3.01 SPRINKLER SYSTEM:

A. INSTALL AS REQUIRED TO MEET NFPA 13, 2016, BRISTOL, RI FIRE DEPARTMENT - AND ALL APPLICABLE CITY CODES.

B. SPRINKLERS SHALL BE INSTALLED SO THAT THEIR DISCHARGE PATTERN IS NOT OBSTRUCTED BY SURFACE MOUNTED LIGHTS, SOFFITS AND OTHER OBSTRUCTIONS. PROVIDE DEEP ESCUTCHEONS WHERE REQUIRED TO LOWER SPRINKLERS BELOW CEILING SURFACE MOUNTED FIXTURES.

C. COORDINATE SPRINKLER AND PIPE LOCATIONS WITH STRUCTURAL ELEMENTS AND ALL COMPONENTS OF OTHER MECHANICAL AND ELECTRICAL SYSTEMS.

3.02 PIPING, HANGERS, VALVES & ACCESSORIES:

A. PIPING SHALL BE RUN PARALLEL WITH THE LINES OF THE BUILDING; WELL SUPPORTED FROM THE STRUCTURE: FREE FROM POCKETS AND SAGS. PITCH PIPING TO DRAIN POINTS.

B. PIPING SHALL BE INSTALLED TO PROVIDE NOT LESS THAN 3/4" SPACING FROM FINISHED SURFACE TO OTHER SURFACES OF OTHER CONSTRUCTION.

C. ALL PIPING SHALL BE CONCEALED ABOVE SUSPENDED CEILINGS WHERE THEY OCCUR.

D. PROVIDE RETURN BENDS TO LOCATE SPRINKLERS IN THE CENTER OF CEILING TILES.

E. ALL PIPING SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF APPROVED HANGER AND SUPPORTS. PIPE SHALL BE SUPPORTED TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINES TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE AND SHALL BE ARRANGED SO AS TO PROVIDE FOR PROPER EXPANSIONS AND CONTRACTION OF PIPE.

F. SPACE HANGERS IN ACCORDANCE WITH NFPA 13 AND INSURANCE AND MANUFACTURER'S INSTALLATION REQUIREMENTS.

G. SUPPORT THE BACKFLOW PREVENTER WITH PIPE STANDS. PIPE SHALL BE SECURED TO FLOOR SLAB.

H. PROVIDE ALL ALARM COMPONENTS AS REQUIRED FOR PROPER OPERATION OF THE FIRE PROTECTION SYSTEMS.

I. ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR.

3.03 TESTING:

A. ALL FIRE PROTECTION SYSTEMS PIPING INCLUDED IN THE SCOPE OF THE PROJECT SHALL BE TESTED & REPAIRED BY THIS CONTRACTOR. TESTING OF SYSTEM SHALL BE DONE AT THE EXPENSE OF THIS CONTRACTOR, AND WITH EQUIPMENT FURNISHED BY THEM. TESTING SHALL BE IN THE PRESENCE OF DULY AUTHORIZED LOCAL INSPECTORS AND THE OWNER'S REPRESENTATIVE WITH 48-HOUR NOTICE GIVEN TO THESE AUTHORITIES. ALL SYSTEMS SHALL BE REPAIRED AND RETESTED UNTIL REQUIREMENTS OF NFPA 13, 2013 EDITION, NFPA 25, 2017 EDITION AND AHJ ARE SATISFIED, WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

B. CONTRACTOR SHALL ALSO COMPLY WITH ANY SPECIFIC REQUIREMENTS OF THE BRISTOL, RHODE ISLAND FIRE DEPARTMENT AND OWNER'S INSURANCE COMPANY.

3.04 COMPLETION:

A. PROVIDE PROPERLY EXECUTED CERTIFICATE OF INSPECTION FROM THE STATE FIRE MARSHAL'S INSPECTION OFFICE.

B. VERIFY THAT PROJECT RECORD DOCUMENTS ARE COMPLETE AS SPECIFIED UNDER SUBMITTALS AND RECORD DOCUMENTS.

3.05 APPROVALS AND SUBSTITUTIONS:

A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE ALLOWED, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM CRITERIA AS DELINEATED, SPECIFIED EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.

B. SUBSTITUTED EQUIPMENT WHERE PERMITTED MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY MODIFICATION OF RELATED SYSTEMS OR ADDITIONAL COSTS THAT RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE BORNE BY THIS CONTRACTOR.

C. IT SHALL BE MANDATORY FOR THIS CONTRACTOR TO SUBMIT THEIR BID PRICE BASED ON SPECIFIED MANUFACTURERS OR SUPPLIERS OF MATERIALS OR SERVICES. IF THE CONTRACTOR DESIRES TO SUBSTITUTE OTHER THAN SPECIFIED, THIS CONTRACTOR SHALL SUBMIT SEPARATE PRICES FOR EACH OF THESE ITEMS FOR ADDITIONS OR DEDUCTIONS TO THE BID PRICE, FOR ACCEPTANCE OR REJECTION AT THE TIME BIDS ARE DUE. SHOULD THESE SUBSTITUTIONS BE REJECTED, THE CONTRACTOR SHALL BE OBLIGED TO PROVIDE SPECIFIED MATERIALS AND SERVICES.

3.06 CODES, PERMITS AND INSPECTIONS:

A. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENTS OF THE STATE BUILDING CODES NFPA STANDARD #1, #13 & #101, STATE & LOCAL CODES, BUILDINGS INSURANCE COMPANY, AND AUTHORITIES HAVING JURISDICTION OVER THE WORK OF THIS PROJECT.

B. SECURE REQUIRED PERMITS, INSPECTION & TEST CERTIFICATES, TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK. PAY ALL ASSOCIATED FEES.

3.07 SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS:

A. SIX (6) COPIES OF PIPING LAYOUTS AND CERTIFIED EQUIPMENT MANUFACTURER'S DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION, ERECTION OR PURCHASE.

3.08 TESTING AND CLEANING:

A. MAKE ALL TESTING AND CLEANING ON ALL SYSTEMS, WITH A WRITTEN GUARANTEE. ALL TESTS TO BE IN ACCORDANCE WITH NFPA 25 2014 EDITION AND APPROVED BY ALL STATE & CITY AGENCIES AT CONTRACTOR'S COST.

B. CLEAN AND TEST ALL NEW AND EXISTING SPRINKLER SYSTEM PIPING.

C. UPON COMPLETION, ALL DEBRIS SHALL BE REMOVED FROM THE SITE & THE AREA LEFT BROOM CLEAN.

3.09 SYSTEMS TRAINING:

A. THE CONTRACTOR MUST PLAN AND ORGANIZE A TRAINING SESSION OF AT LEAST TWO HOURS FOR THE BUILDING MAINTENANCE STAFF, IN THE PRESENCE OF BUILDING OWNER OR THEIR REPRESENTATIVE.

B. THE TRAINING SESSION MUST INCLUDE THE NORMAL OPERATION, EMERGENCY PROCEDURES AND SYSTEM MAINTENANCE FOR ANY FIRE SUPPRESSION EQUIPMENT REQUIRED TO BE OPERATED OR MAINTAINED MY BUILDING STAFF.

3.10 OPERATING AND MAINTENANCE INSTRUCTIONS:

A. AFTER FINAL TESTS AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATIONS FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT WHICH SHALL BE OBTAINED FROM THE OPERATOR SHALL BE CONSTRUED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORY.

B. FURNISH THREE (3) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL OPERATING PROCEDURES. WHEN MANUFACTURER STANDARD INSTRUCTIONS ARE UTILIZED, THEY SHALL BE CLEARLY MARKED AS TO INDICATED APPLICABILITY. SHOP DRAWINGS SUBMITTED TO THE ENGINEERS OFFICE SHALL HAVE A P.E. STAMP, OWNER'S INSURANCE COMPANY'S STAMP, AND APPROVAL STAMP FROM THE STATE FIRE MARSHAL AND BUILDING INSPECTOR'S REVIEW OFFICE. DRAWINGS AND HYDRAULIC CALCULATIONS MUST HAVE THESE APPROVAL STAMPS OR THEY WILL BE IMMEDIATELY RETURNED AS REJECTED.

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by NJC

Checked by NJC

Revised on

CEC Project: 20241248

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Project

TOWN OF BRISTOL, R.I.

ROGERS FREE LIBRARY INTERIOR MODIFICATIONS

ROGERS FREE LIBRARY

525 HOPE STREET
BRISTOL, R.I. 02809

Drawing Status

Issued for Construction

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Sheet Contents

FIRE PROTECTION SPECFICATIONS

Project Number. 6846

Drawing No.

FP800

Sheet of

GENERAL LEGEND

- EQUIPMENT TO BE REMOVED
- NEW / EXISTING — POINT TO CONNECT NEW TO EXISTING. VERIFY SIZE AND LOCATION IN FIELD PRIOR TO INSTALLATION
- S — SWITCH
- S — TEMPERATURE SENSOR
- T — WALL THERMOSTAT
- H — WALL MOUNTED HUMIDISTAT
- T C — COOLING THERMOSTAT (REVERSE ACTING)
- T H/C — HEATING/COOLING THERMOSTAT
- THERMOSTAT GUARD w/ KEY LOCK BY HONEYWELL MODEL VERSAGAURD
- SP — DUCT MOUNTED STATIC PRESSURE SENSOR
- SD — DUCT MOUNTED SMOKE DETECTOR
- HS — DUCT MOUNTED HUMIDITY SENSOR
- TS — DUCT MOUNTED TEMPERATURE SENSOR
- DP — DUCT MOUNTED DEW POINT SENSOR
- DISCONNECT FROM EXISTING SYSTEM, PIPING AND/OR DUCTWORK. MAKE SAFE, TEMPORARILY CAP AND SEAL DURING CONSTRUCTION.
- CONNECT TO EXISTING SYSTEM, PIPING AND/OR DUCTWORK. PROVIDE ELBOW, TRANSITIONS AND OTHER FITTINGS AS REQUIRED TO MAKE THE CONNECTION(S).

DUCTWORK LEGEND

- SUPPLY CEILING DIFFUSER THROW PATTERN
- RETURN/EXHAUST CEILING REGISTER
- CEILING EXHAUST FAN WITH FLEXIBLE CONNECTION
- SIDE WALL GRILLE/REGISTER
- LINEAR DIFFUSER
- FLOOR GRILLE/REGISTER
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- RETURN/EXHAUST DUCT UP
- RETURN/EXHAUST DUCT DN.
- MITERED ELBOWS 90° w/ VANES
- MITERED ELBOWS 45° w/ VANES
- 30° 2 PIECE CUT ELBOW
- CUT ELBOW 45° 3 PIECE
- CUT ELBOW 60° 3 PIECE
- CUT ELBOW 90° 3 PIECE

DUCTWORK LEGEND

- ROUND ELBOWS 45° LONG RADIUS
- ROUND ELBOWS 45° SHORT RADIUS
- ROUND DUCT DROP
- ROUND DUCT RISER
- TAKE-OFF W/ BRANCH DAMPER (REFER TO DETAIL FOR TAKE-OFF TYPE)
- OR — BULLHEAD SPLIT SUPPLY
- BULLHEAD CONVERGE RETURN/EXHAUST
- HORIZONTAL OFFSET
- FLEXIBLE CONNECTION (6" NEOPRENE)
- 24x12 — LINED DUCT - SIZE INDICATES INSIDE DIMENSION
- 24x12 — RECTANGULAR DUCT - FIRST FIGURE IS SIDE SHOWN
- 26ø — SPIRAL DUCTWORK
- FLEXIBLE DUCTWORK
- DUCT HUMIDIFIER
- DUCT FILTER BOX
- VOLUME DAMPER (OPPOSED BLADE TYPE)
- VCD / MD — MOTORIZED CONTROL DAMPER
- BDD — BACK DRAFT DAMPER
- FD — DYNAMIC FIRE DAMPER HORIZONTAL
- FD — DYNAMIC FIRE DAMPER VERTICAL
- OA — OUTSIDE AIR MEASUREMENT STATION
- DUCT CAP
- EXISTING DUCT TO REMAIN (SHOWN LIGHT)
- EXISTING DUCT TO BE REMOVED (SHOWN DARK)
- ACCESS PANEL ON BOTTOM OF DUCT
- ACCESS PANEL ON SIDE OF DUCT
- TRANSITION - ECCENTRIC
- TRANSITION - CONCENTRIC
- RECTANGULAR TO ROUND TRANSITION
- EXHAUST/RETURN/INTAKE FLOW ARROW
- SUPPLY AIR FLOW DIRECTION

PIPING LEGEND

- L — LIQUID REFRIGERANT LINES
- S — SUCTION REFRIGERANT LINES
- CD — CONDENSATE DRAIN
- PIPE TURNING DOWN
- PIPE TURNING UP
- TEE OFF TOP
- TEE OFF BOTTOM
- DROP AND RUN
- DROP AND TURN
- TEE UP
- TEE DOWN
- VALVE IN RISER
- PIPE CAP
- CLEAN-OUT
- UNION (DIELECTRIC TYPE ON DISSIMILAR METALS)
- FLANGED (DIELECTRIC TYPE ON DISSIMILAR METALS)
- BALL VALVE
- GATE VALVE
- GATE VALVE
- BUTTERFLY VALVE
- GLOBE VALVE
- DIAPHRAGM VALVE
- OS-Y GATE VALVE
- 3-WAY VALVE
- 4-WAY VALVE
- CHECK VALVE (SWING TYPE)
- CHECK VALVE w/ BALL DRIP
- PRESSURE REDUCING VALVE
- PLUG VALVE
- CIRCUIT SETTER w/ GAGE PORT
- MULTI PURPOSE VALVE
- AUTOMATIC BALANCING VALVE
- MANUAL BALANCING VALVE
- PUMP
- STRAINER w/ BLOW DOWN (INLINE)
- PIPE DRAIN w/ BALL VALVE & CAP
- EPDM FLEXIBLE CONNECTION
- EPDM FLEXIBLE CONNECTION
- UP/DN — PITCH UP/DN. IN DIRECTION OF FLOW
- F&T STEAM TRAP
- ANCHOR
- PIPE GUIDE
- WALL SLEEVE
- FLOW SWITCH
- FR — FLOW RATE METER (IN GPM)
- FLOW SENSOR
- TEMPERATURE SENSOR
- SAFETY RELIEF VALVE PIPE TO FLOOR DRAIN
- MANUAL NON-RISING
- MANUAL LEVER
- QUICK OPEN LEVER
- M — PNEUMATIC ACTUATOR
- M — ELECTRIC ACTUATOR
- C — ELECTRIC ACTUATOR
- THERMOMETER w/ STOP
- PRESSURE GAGE w/ STOP
- AUTO. AIR VENT

ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ARCH	ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
AS	AIR SEPARATOR
AV	AIR VENT
BB	BASEBOARD
BD	BAROMETRIC DAMPER(COUNTER BALANCED)
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM (DDC)
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNITS
BTUH	BTU PER HOUR
BV	BALL VALVE
B	BOILER
CB	CHILLER BOILER
CC	COOLING COIL
CEF	CEILING EXHAUST FAN
CFM	CUBIC FEET PER MINUTE
CH	CEILING HEATER
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CP	CONDENSATE PUMP
CP	CONTROL PANEL
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COP	CENTER OF PIPE
CR	CONDENSATE RECEIVER
CRP	CONDENSATE RETURN PUMP
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CTWP	COOLING TOWER WATER PUMP
CWP	CHILLED WATER PUMP
CWS	CONDENSING WATER SUPPLY
CWR	CONDENSING WATER RETURN
CV	CONVECTOR
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROL
DB	DRY BULB
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DX	DIRECT EXPANSION
DP	DEW POINT
DWG	DRAWING
DHE	DOMESTIC WATER HEATER EXCHANGER
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD
EFF	EFFICIENCY
EF	EXHAUST FAN
EH	ELECTRIC HUMIDIFIER
ELEC	ELECTRICAL
ELV	ELEVATION
ERV	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXP	EXPANSION
°F	DEGREES FAHRENHEIT
FA	FRESH AIR
FA	FREE AREA
FBT	FLAT BOTTOM TRANSITION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FMS	FLOW MEASURING STATION
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FTR	FINNED TUBE RADIATION
FTT	FLAT TOP TRANSITION
FT	FEET
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HC	HEATING COIL
HP	HEAT PUMP
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HV	HEATING & VENTILATING UNIT
HHE	HEATING WATER HEAT EXCHANGER
HE	HEAT EXCHANGER
HWP	HOT WATER PUMP
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
IN	INCHES
IRV	INTAKE ROOF VENT
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LPH	LOUVERED PENTHOUSE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSANDS OF BTU'S PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEZV	NON-ELECTRIC ZONE VALVE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P	PUMP
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH GA.
PR	PANEL RADIATOR
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R	RETURN
RA	RETURN AIR
REF	ROOF EXHAUST FAN
REQ'D.	REQUIRED
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RH	REHEAT COIL
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
RVD	REMOTE CONTROLLED VOLUME DAMPER
S	SUPPLY
SA	SUPPLY AIR
SA	SOUND ATTENUATOR
SAT	SUPPLY AIR TEMPERATURE
SCT	SATURATED CONDENSING TEMPERATURE
SD	SMOKE DAMPER
SF	SQUARE FEET
SH	STEAM HUMIDIFIER
SFD	SMOKE/FIRE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SST	SATURATED SUCTION TEMPERATURE
STL	STEEL
T	THERMOSTAT
T.B.D.	TO BE DEMOLISHED
TU	TERMINAL UNIT
TYP.	TYPICAL
UC	UNDERCUT DOOR 3/4" (MIN.)
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
ZV	ZONE VALVE
WH	WATER HEATER

MECHANICAL SHEET LIST

DESIGN CONDITIONS

OUTDOOR DESIGN CONDITION:
- SUMMER - 87°F DB, 71°F WB
- WINTER - 0°F DB
- HUMIDITY - 73.2°F WB

INDOOR DESIGN CONDITION:
- SUMMER - 75°F
- WINTER - 72°F

GENERAL NOTES

1. SCOPE OF WORK SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, HOISTING, RIGGING, INSURANCE, REFRIGERANT, GLYCOL, ETC., TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND HEREIN SPECIFIED FOR A COMPLETE AND FULLY OPERABLE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL CODES AND ORDINANCES HAVING JURISDICTION, AS INTERPRETED BY THE ARCHITECT/ENGINEER.
2. MECHANICAL EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.
3. THE DRAWINGS SHOW THE LAYOUT OF THE MECHANICAL SYSTEMS AND INDICATE THE APPROXIMATE LOCATIONS OF DUCTWORK, PIPING, BRANCHES AND ELBOWS, AND EQUIPMENT. THE RUNS AND QUANTITY OF DUCTWORK, PIPING, OFFSETS AND ELBOWS AS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT ROUTING OF QUANTITY DUCTWORK, PIPING, OFFSETS AND ELBOWS SHALL BE DETERMINED BY THE STRUCTURAL CONDITIONS, POSSIBLE OBSTRUCTIONS AND COORDINATION DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT THE DESIGN OF THE SYSTEMS MAY BE CHANGED, BUT REFERS ONLY TO EXACT ROUTING BETWEEN GIVEN POINTS.
4. IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE BETWEEN THE HVAC INSTALLATION AND THE SYSTEMS AND EQUIPMENT OF OTHER TRADES.
5. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST.
6. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
7. PRODUCTS REQUIRED BY CONSTRUCTION BUT NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE A/E.
8. PROVIDE AND INSTALL ALL MATERIALS, LABOR, EQUIPMENT, AND ACCESSORIES FOR COMPLETE AND OPERABLE SYSTEMS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS INDICATED ON THE DRAWINGS.
9. INSTALLATION OF THE HVAC SYSTEM SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT OF EQUIPMENT.
10. PROVIDE DUCT ACCESS DOORS FOR ALL MOTORIZED DAMPERS, AIR FLOW STATIONS, FIRE & SMOKE DAMPERS, DUCT SMOKE DETECTORS, THE ENTERING SIDE OF EVERY COIL, AND AT ALL OTHER LOCATIONS WHERE COMPONENTS ARE INSTALLED WITHIN DUCTWORK REGARDLESS OF WHETHER OR NOT AN ACCESS IS INDICATED ON THE FLOOR PLANS.
11. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
12. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.
13. WHERE DUCTWORK PENETRATES ANY SMOKE AND/OR FIRE RATED PARTITIONS PROVIDE UL LISTED DYNAMIC FIRE AND/OR SMOKE DAMPERS PER NFPA GUIDELINES. INSTALL DAMPER PER MANUFACTURER'S INSTRUCTIONS AND INSTALL DUCT AND ARCHITECTURAL ACCESS FOR EVERY DAMPER.
14. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
15. EXACT ELEVATION FOR SIDE WALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
16. INSTALL ROOM THERMOSTATS OR SENSORS 48" (MAXIMUM) ABOVE FINISHED FLOOR OR AS OTHERWISE DIRECTED BY THE ARCHITECT.
17. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS BID AND SECURE THE SERVICES OF THE PROJECT ELECTRICAL CONTRACTOR FOR INCIDENTAL LINE VOLTAGE REQUIRED FOR AUTOMATIC TEMPERATURE CONTROLS.
18. ALL MOTORS SHALL BE PREMIUM EFFICIENCY. ALL MOTORS SPECIFIED FOR SERVICE WITH A VFD SHALL BE RATED FOR INVERTER DUTY AND SHALL INCLUDE MANUFACTURER'S INTEGRAL MOTOR SHAFT GROUNDING PROTECTION. FIELD INSTALLED RINGS ARE NOT ACCEPTABLE
19. NOT USED.
20. THE MECHANICAL CONTRACTOR SHALL FOLLOW ALL FM GLOBAL CONSTRUCTION AND SAFETY PROCEDURES.
21. THE MECHANICAL CONTRACTOR MUST COORDINATE THE COMPONENTS AND PROGRAMMING OF THEIR EQUIPMENT VENDORS AND THEIR ATC SUBCONTRACTOR. CONTROL SEQUENCES SHALL BE TESTED AND CORRECTED TO THE SATISFACTION OF THE COMMISSIONING AGENT (CXA) AND ENGINEER.
22. THE MECHANICAL CONTRACTOR MUST INCLUDE COMPLETE TESTING, ADJUSTING AND BALANCING OF EVERY COMPONENT. ENTERING WATER TEMPERATURE, LEAVING WATER TEMPERATURE, GPM AND PRESSURE DROP READINGS ARE REQUIRED AT EVERY COIL AND COMPONENT; ABSOLUTELY NO AUTOMATIC BALANCING VALVES WILL BE ALLOWED. EVERY AIR SYSTEM MUST BE TESTED, ADJUSTED AND BALANCED. ENTERING AIR TEMPERATURE, LEAVING AIR TEMPERATURE, AND APD THROUGH EACH COIL IS REQUIRED WITH CORRESPONDING WATER-SIDE INFORMATION. CFM FLOW WILL BE MEASURED AND CHECKED AGAINST AIR-FLOW STATION READING TO CALIBRATE AIR FLOW STATIONS. CFM AIRFLOW AND PRESSURE MUST BE MEASURED IN MAIN AND BRANCH DUCTS, DIFFUSER AND REGISTER AIRFLOW SHALL BE MEASURED AT EACH DEVICE AND ADJUSTMENTS MADE. INITIAL, ADJUSTED AND FINAL READINGS SHALL BE RECORDED. CONDITIONS AT TIME OF TESTING MUST INCLUDE OUTDOOR AIR TEMPERATURE, MODE OF SYSTEM,CONDITION OF FILTERS, CONDITION OF EQUIPMENT, AND ANY OTHER RELEVANT INFORMATION. DOCUMENT ALL PROBLEMS FOUND OR CONDITIONS WHICH IMPACT RESULTS OF BALANCING. RECORD ALL MOTOR POWER DATA AND FAN RPMS. MARK ALL BALANCED SETTINGS IN PERMANENT INK ON THE VALVE, VOLUME DAMPER, OR SPEED DIAL.

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by Author

Checked by Checker

Revised on

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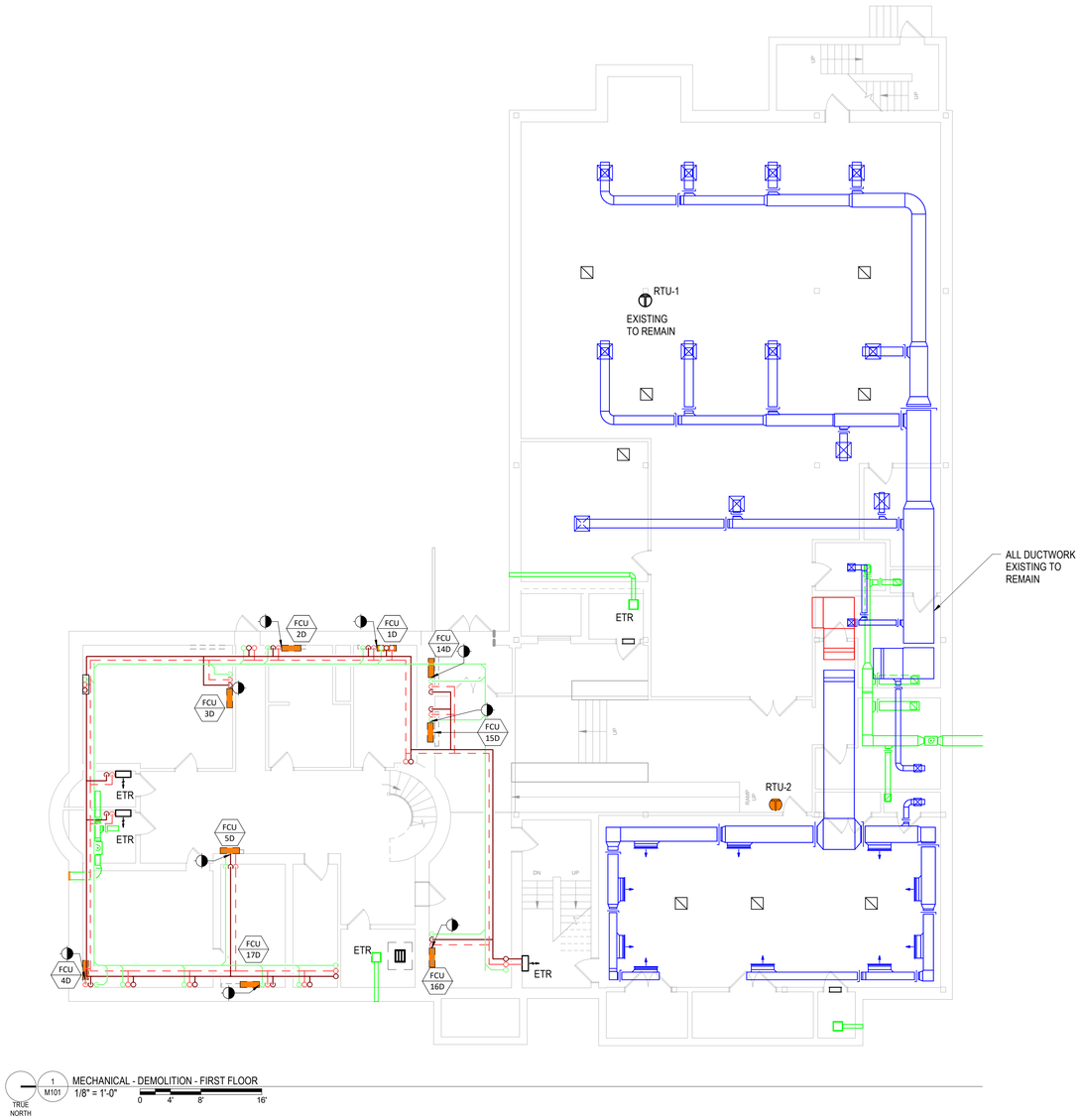
Sheet Contents
MECHANICAL LEGEND & ABBREVIATIONS

Project Number. 6846

Drawing No.
M000

Sheet of



GENERAL SHEET NOTES

1. PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCTWORK THAT SERVES A DIFFUSERS, GRILLES, OR REGISTERS. VOLUME DAMPER SHALL BE INSTALLED WITHIN AN ACCESSIBLE LOCATION, OR HAVE AN ACCESS PANEL.
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KEYED SHEET NOTES

1. 12"x12" EXHAUST FLUE & 14.5"x15" COMBUSTION AIR DUCTS UP THRU ROOF TO TERMINATE WITH GOOSENECKS WITH WIREMESH INSECT-SCREEN.
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Certification

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No. 7806
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

Drawn by Author

Checked by Checker

Revised on

CEC Project: 20241248

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Sheet Contents

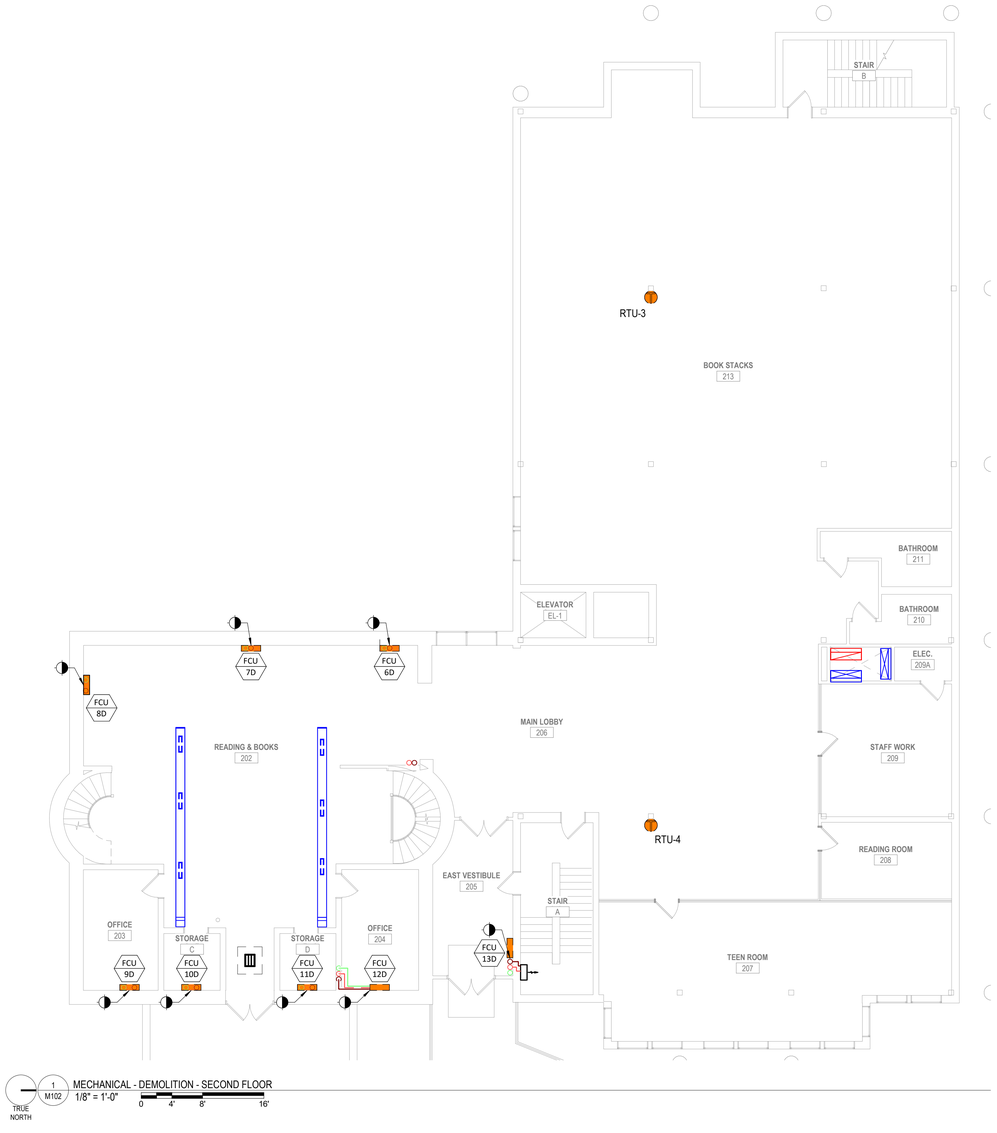
MECHANICAL - DEMOLITION - FIRST FLOOR

Project Number. 6846

Drawing No.

M101

Sheet of



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MECHANICAL

Drawn by Author

Checked by Checker

Revised on

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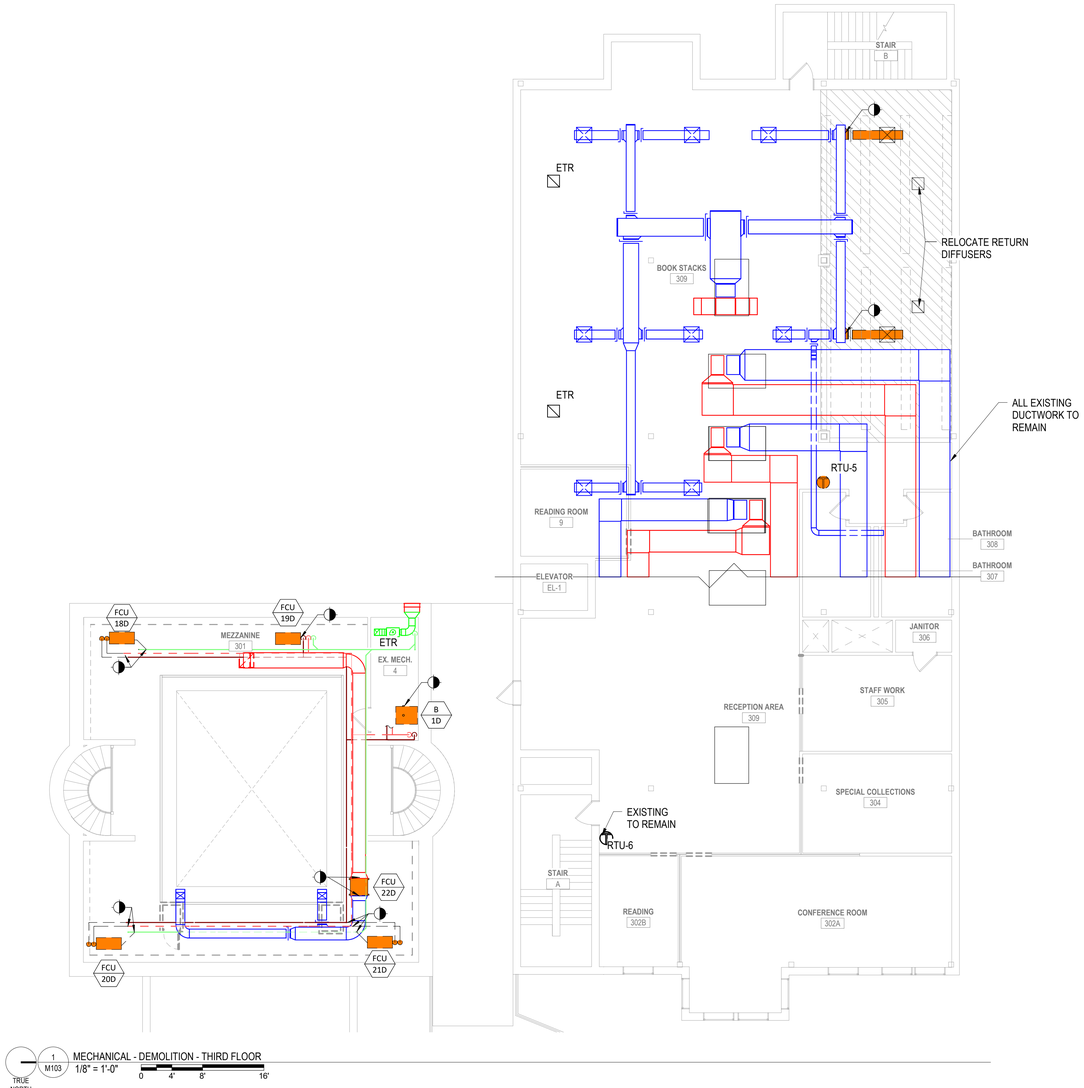
Sheet Contents
MECHANICAL - DEMOLITION - SECOND FLOOR

Project Number. 6846

Drawing No.
M102

Sheet of



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Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by Author

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Revised on

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Sheet Contents

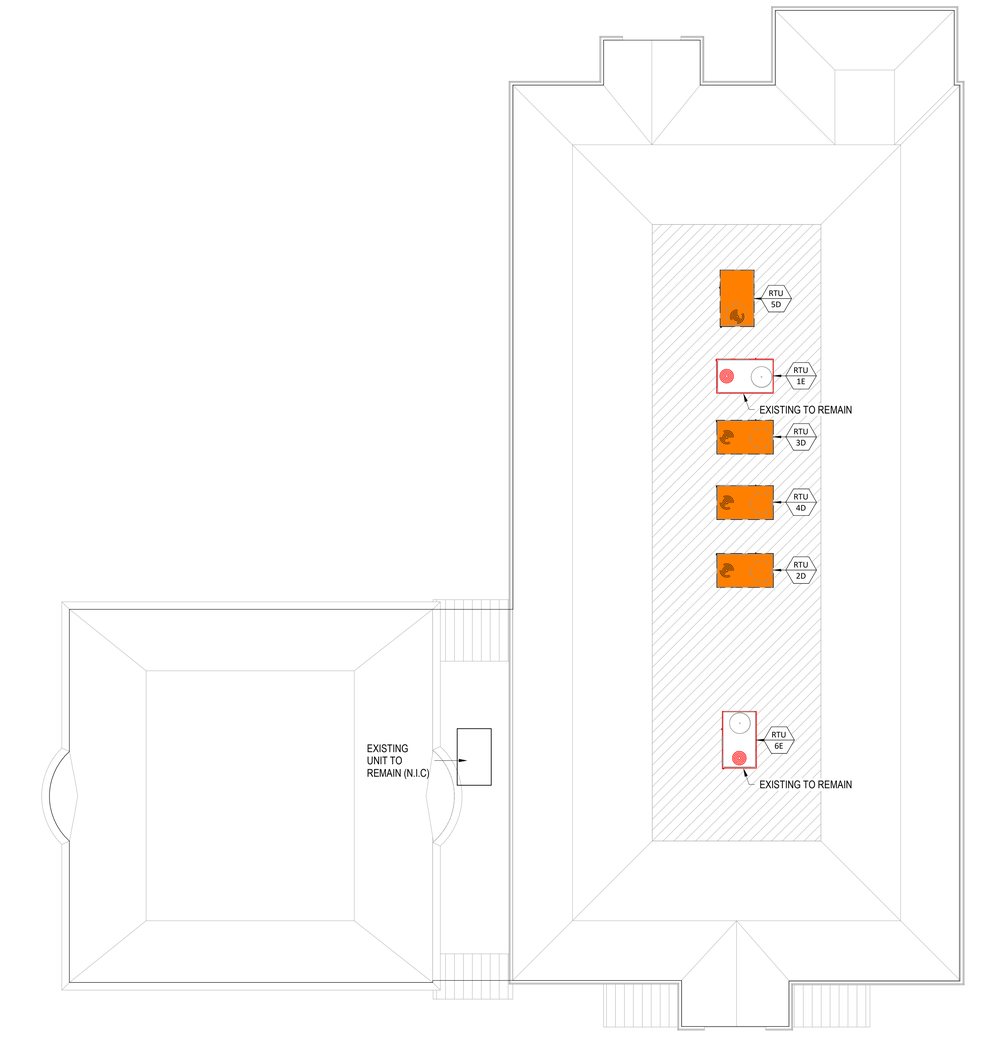
MECHANICAL - DEMOLITION - THIRD FLOOR

Project Number. 6846

Drawing No.

M103

Sheet of



1 M105 MECHANICAL - DEMOLITION - ROOF
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH

Certification

DANIEL JAY HERZIG JR.
No. 7806
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

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Sheet Contents
MECHANICAL - DEMOLITION - ROOF

Project Number. 6846

Drawing No.
M105

Sheet of

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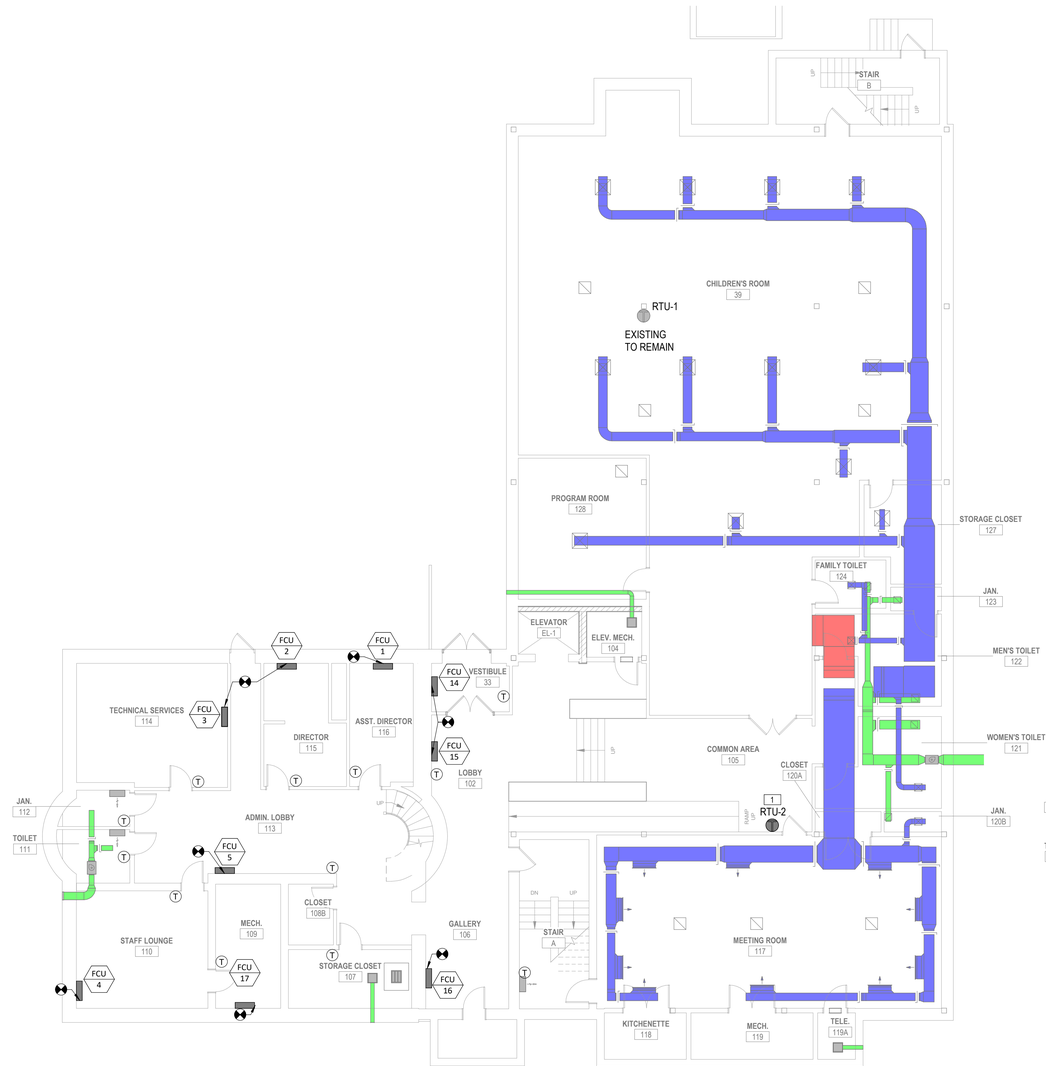
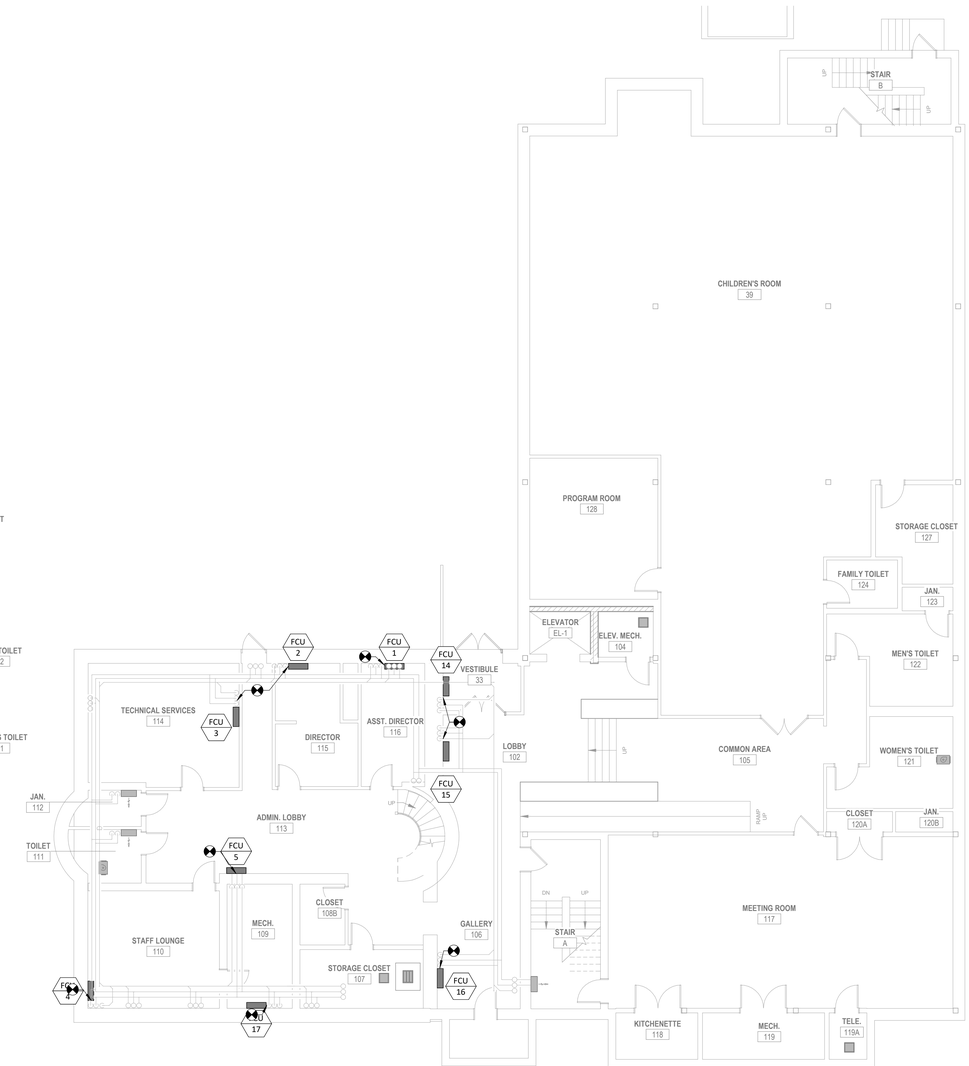
KEYED SHEET NOTES

1 NEW DDC SENSOR WITH +/- 3 DEGREE ADJUSTMENT AND TEMPERATURE AND SETPOINT READOUT. INTERFACE WITH BMS AND RTU.



1 M201 MECHANICAL - FIRST FLOOR
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH



2 M201 MECHANICAL PIPING - FIRST FLOOR
1/8" = 1'-0"
TRUE NORTH

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

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Sheet Contents

MECHANICAL - FIRST FLOOR

Project Number. 6846

Drawing No.

M201

Sheet of

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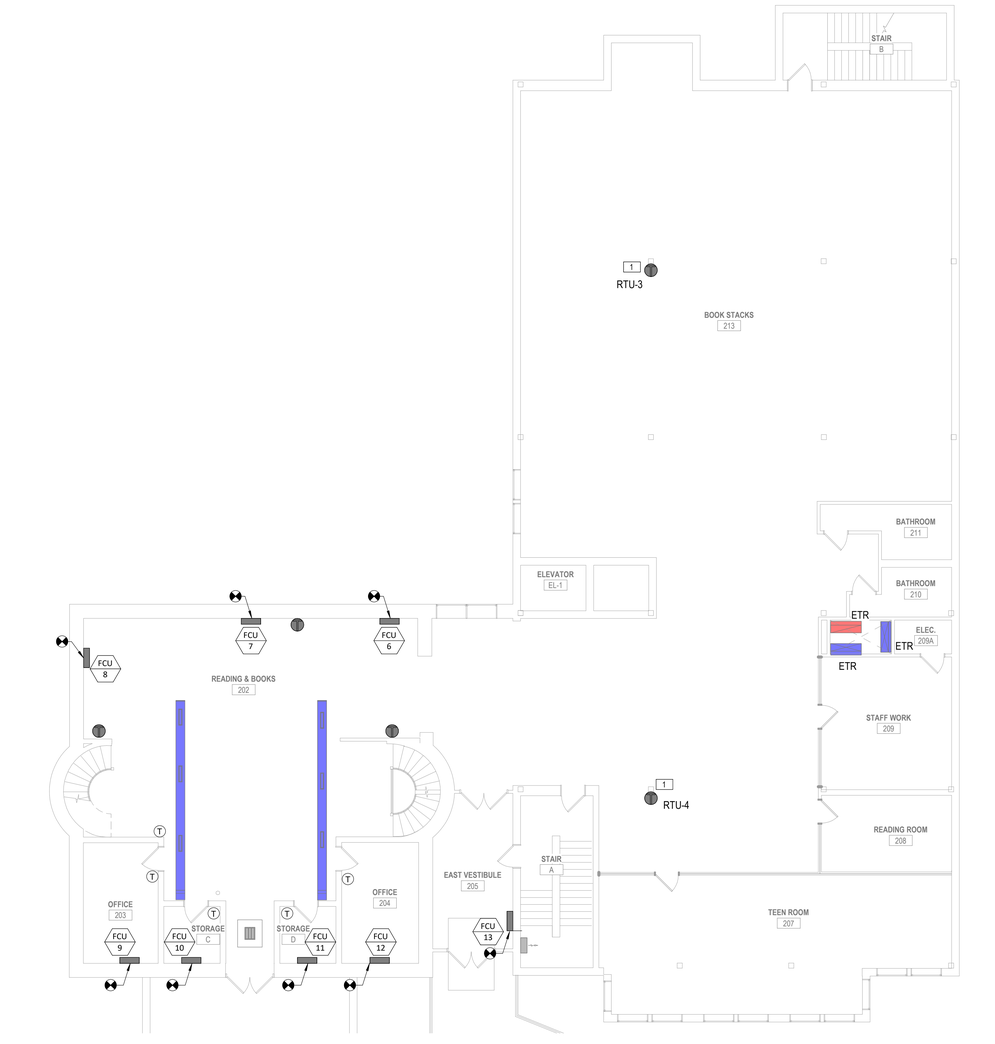
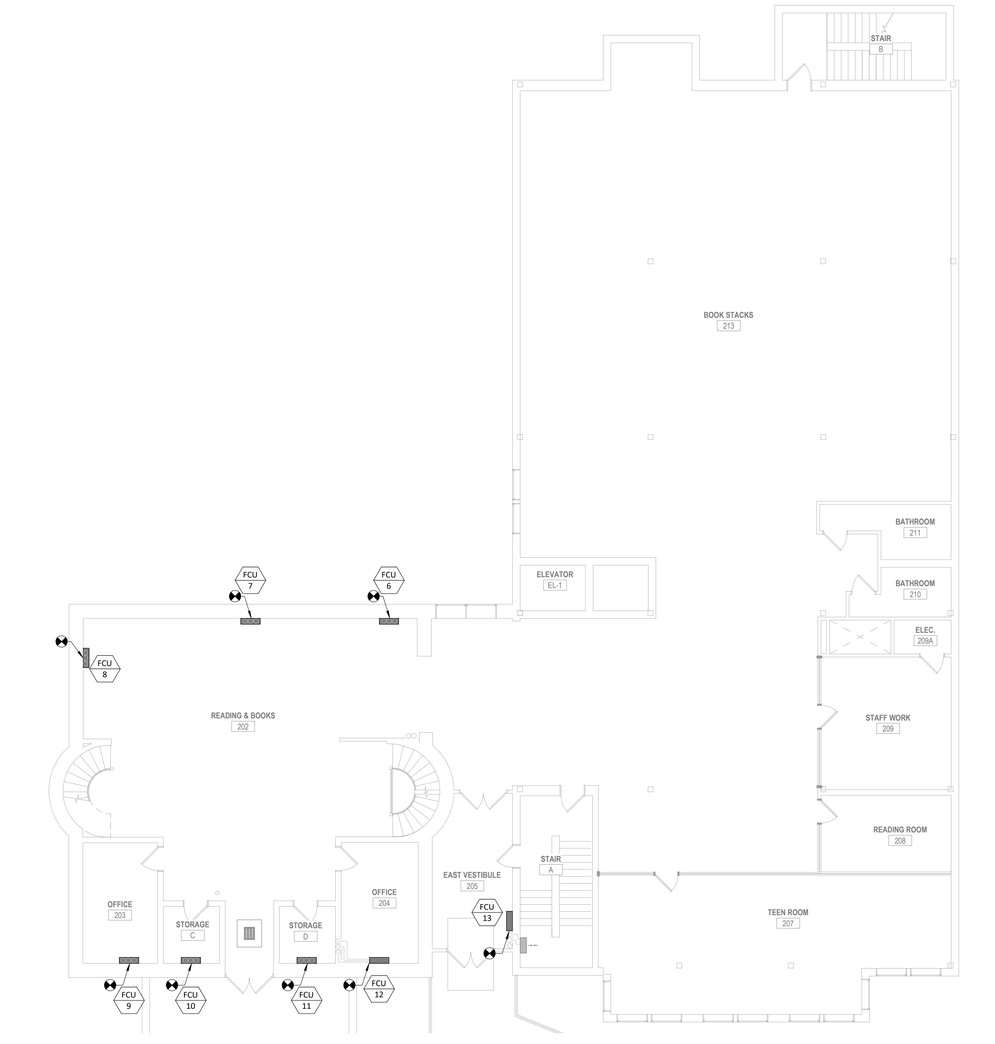


1 M202 MECHANICAL - SECOND FLOOR
1/8" = 1'-0"
TRUE NORTH
0 4' 8' 16'



2 M202 MECHANICAL PIPING - SECOND FLOOR
1/8" = 1'-0"
TRUE NORTH

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

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MECHANICAL - SECOND FLOOR

Project Number. 6846

Drawing No.

M202

Sheet of

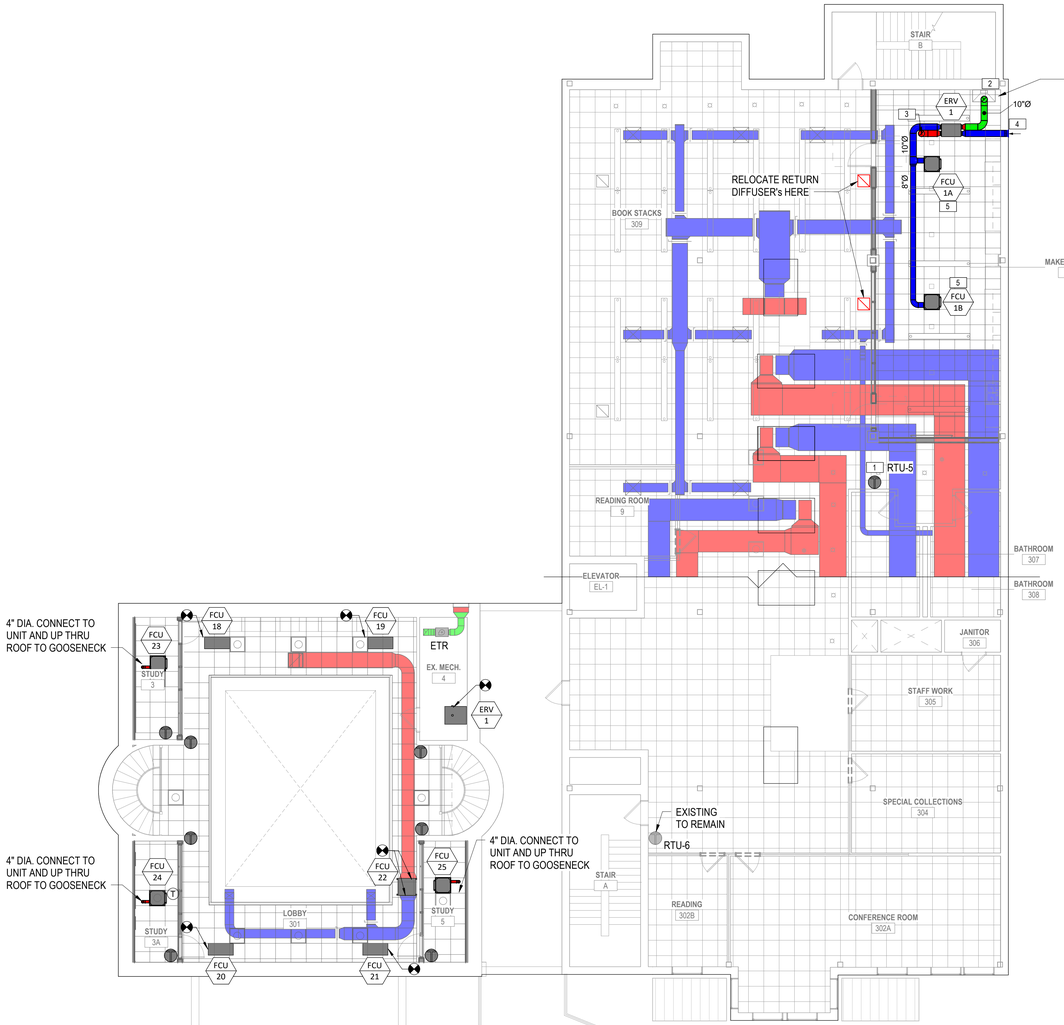
GENERAL SHEET NOTES

1. PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCTWORK THAT SERVES A DIFFUSERS, GRILLES, OR REGISTERS. VOLUME DAMPER SHALL BE INSTALLED WITHIN AN ACCESSIBLE LOCATION, OR HAVE AN ACCESS PANEL.
2. FIRE STOPPING SHALL BE INSTALLED AT ALL FIRE/SMOKE RATED PENETRATIONS.
3. MANUFACTURER'S RECOMMENDED EQUIPMENT SERVICE CLEARANCE SHALL BE MAINTAINED AT ALL TIMES.
4. ALL ELBOWS SHALL HAVE TURNING VANES.

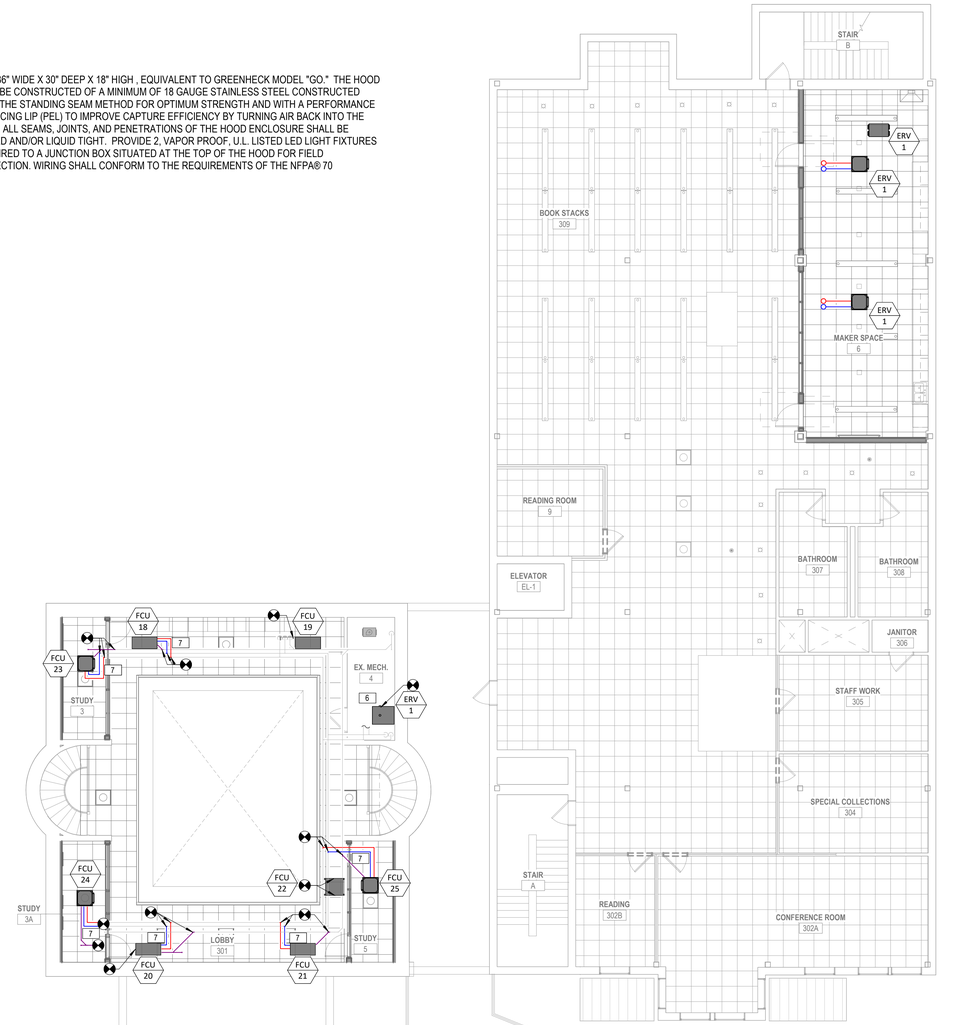
KEYED SHEET NOTES

1. NEW DDC SENSOR WITH +/- 3 DEGREE ADJUSTMENT AND TEMPERATURE AND SETPOINT READOUT. INTERFACE WITH BMS AND RTU.
2. 10" DIA. DOWN TO HOOD. TRANITION TO HOOD CONNECTION SIZE. 300CFM
3. 10" DIA. UP THROUGH ROOF TO GOOSENECK
4. 10" DIA. TO NEW 10"X10" INTAKE LOUVER. 250 CFM.
5. PIPE SIZING BETWEEN FCU AS RECOMMENDED BY UNIT MANUFACTURER.
6. INSULATE ALL PIPING IN THE MECHANICAL ROOM.
7. ALL NEW PIPING TO BE 3/4" UNLESS NOTED OTHERWISE.

FH-1 - 36" WIDE X 30" DEEP X 18" HIGH , EQUIVALENT TO GREENHECK MODEL "GO." THE HOOD SHALL BE CONSTRUCTED OF A MINIMUM OF 18 GAUGE STAINLESS STEEL CONSTRUCTED USING THE STANDING SEAM METHOD FOR OPTIMUM STRENGTH AND WITH A PERFORMANCE ENHANCING LIP (PEL) TO IMPROVE CAPTURE EFFICIENCY BY TURNING AIR BACK INTO THE HOOD. ALL SEAMS, JOINTS, AND PENETRATIONS OF THE HOOD ENCLOSURE SHALL BE WELDED AND/OR LIQUID TIGHT. PROVIDE 2, VAPOR PROOF, U.L. LISTED LED LIGHT FIXTURES PRE-WIRED TO A JUNCTION BOX SITUATED AT THE TOP OF THE HOOD FOR FIELD CONNECTION. WIRING SHALL CONFORM TO THE REQUIREMENTS OF THE NFPA® 70



1 M203 MECHANICAL - THIRD FLOOR
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH



2 M203 MECHANICAL PIPING - THIRD FLOOR
1/8" = 1'-0"
TRUE NORTH

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by Author

Checked by Checker

Revised on

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Creative DIVISION OF THE RISE GROUP
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MECHANICAL - THIRD FLOOR

Project Number. 6846

Drawing No.

M203

Sheet of

GENERAL SHEET NOTES

1. PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCTWORK THAT SERVES A DIFFUSERS, GRILLES, OR REGISTERS. VOLUME DAMPER SHALL BE INSTALLED WITHIN AN ACCESSIBLE LOCATION, OR HAVE AN ACCESS PANEL.
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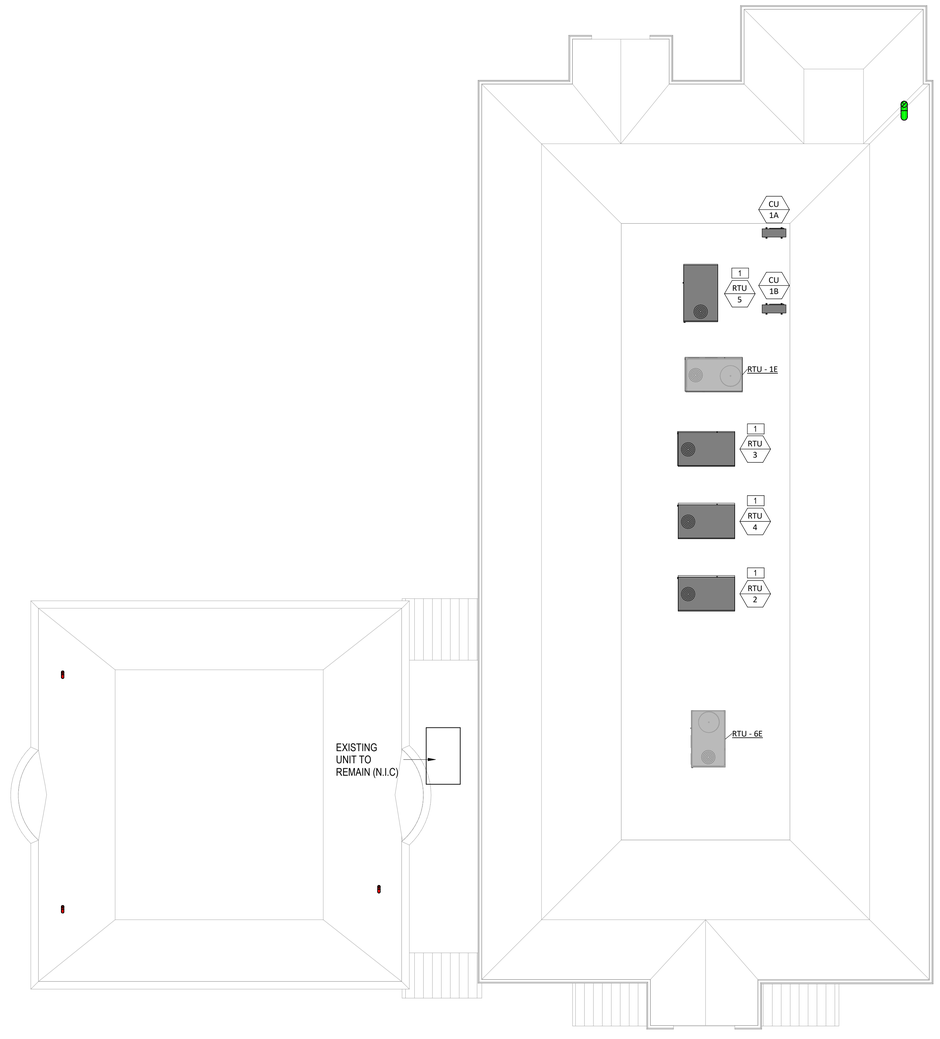
4. ALL ELBOWS SHALL HAVE TURNING VANES.

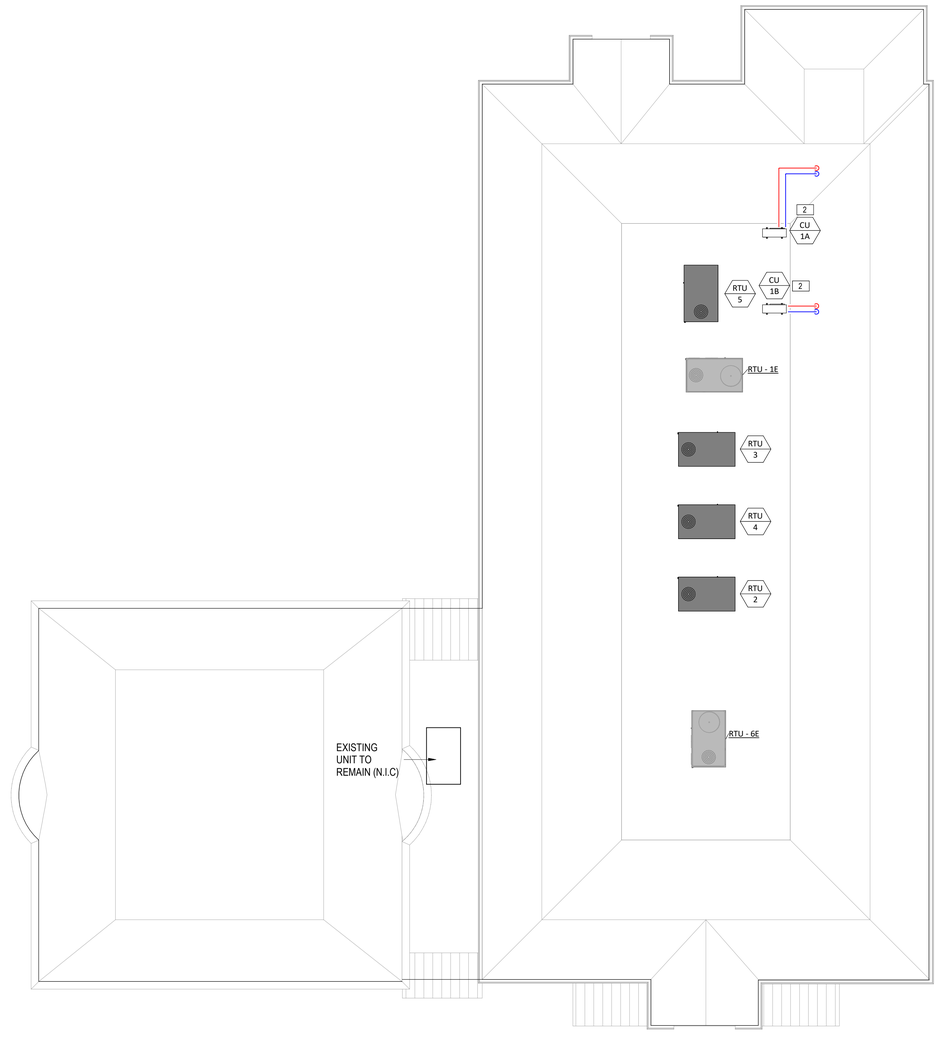
KEYED SHEET NOTES

1 PROVIDE UNIT WITH CURB ADAPTER AS REQUIRED FOR RECONNECTION TO DUCTWORK. VERIFY DIMENSIONS OF EXISTING DUCT RISERS. RECONNECT NATURAL GAS SERVICE

2 PIPE SIZING FOR CU AS RECOMMENDED BY UNIT MANUFACTURER.



1 M205 MECHANICAL - ROOF
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH



2 M205 MECHANICAL PIPING - ROOF
1/8" = 1'-0"
TRUE NORTH

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MECHANICAL - ROOF

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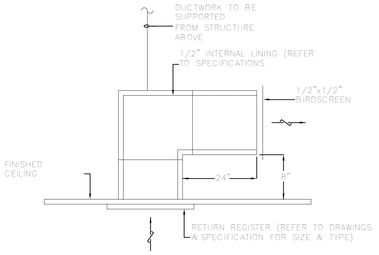
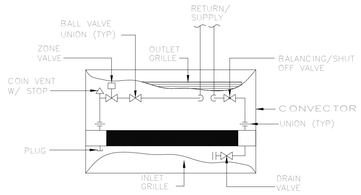


1 M600 — TRUE NORTH

RETURN GRILLE DUCT BOOT DETAIL

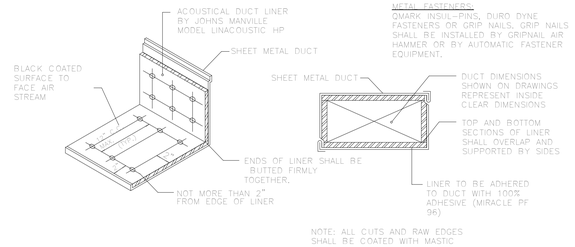
1/8" = 1'-0"



2 M600 — TRUE NORTH

CONVECTOR PIPING DETAIL

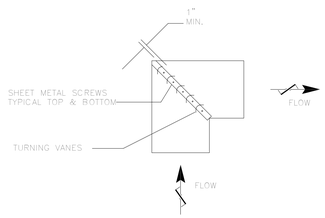
1/8" = 1'-0"



3 M600 — TRUE NORTH

DUCT LINER DETAIL

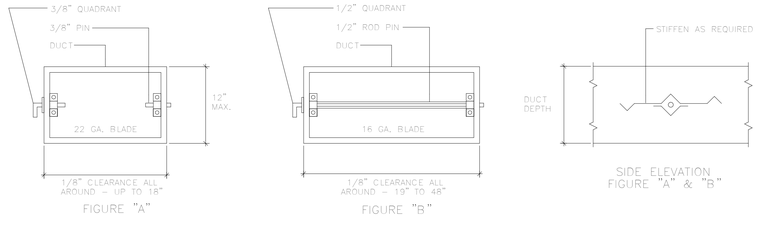
1/8" = 1'-0"



5 M600 — TRUE NORTH

TYPICAL SQUARE ELBOW

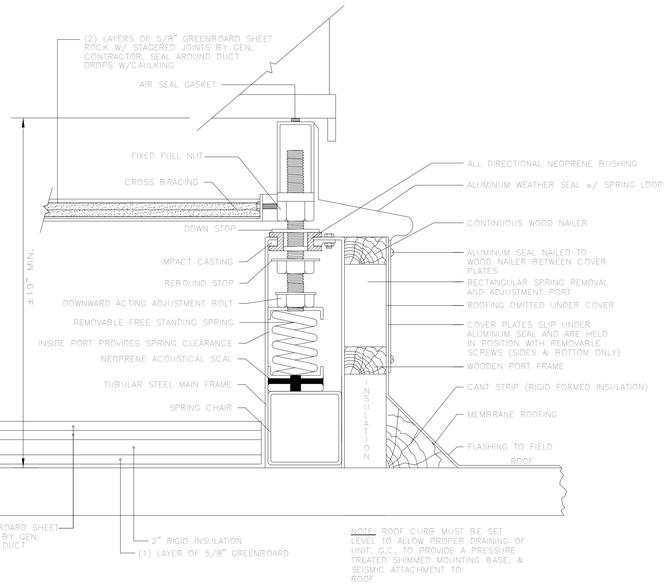
1/8" = 1'-0"



4 M600 — TRUE NORTH

VOLUME DAMPERS

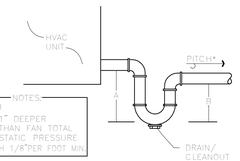
1/8" = 1'-0"



6 M600 — TRUE NORTH

ROOFTOP SPRING ISOLATION CURB DETAIL

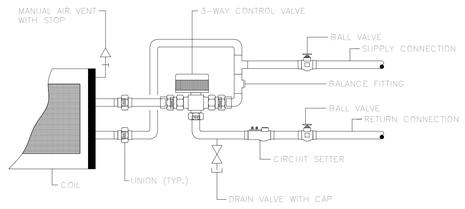
1/8" = 1'-0"



7 M600 — TRUE NORTH

CONDENSATE TRAP DETAIL

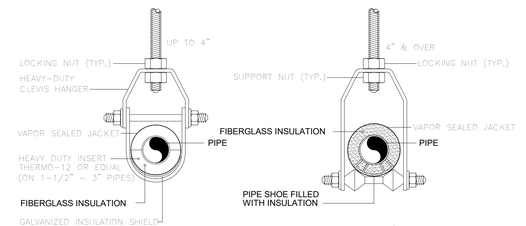
1/8" = 1'-0"



8 M600 — TRUE NORTH

FCU PIPING DIAGRAM

1/8" = 1'-0"



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	4" - 5"	5/8"
2.5" - 3"	1/2"	6" - 8"	3/4"

INSULATION INSERTS	
PIPE SIZES	LENGTH
1 1/2" TO 2 1/2"	10"
3" TO 6"	12"
8" TO 10"	16"
12" AND OVER	22"

PIPING SUPPORT DETAIL
N.T.S.

9 M600 — TRUE NORTH

PIPING SUPPORT DETAIL

1/8" = 1'-0"

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Drawing No.

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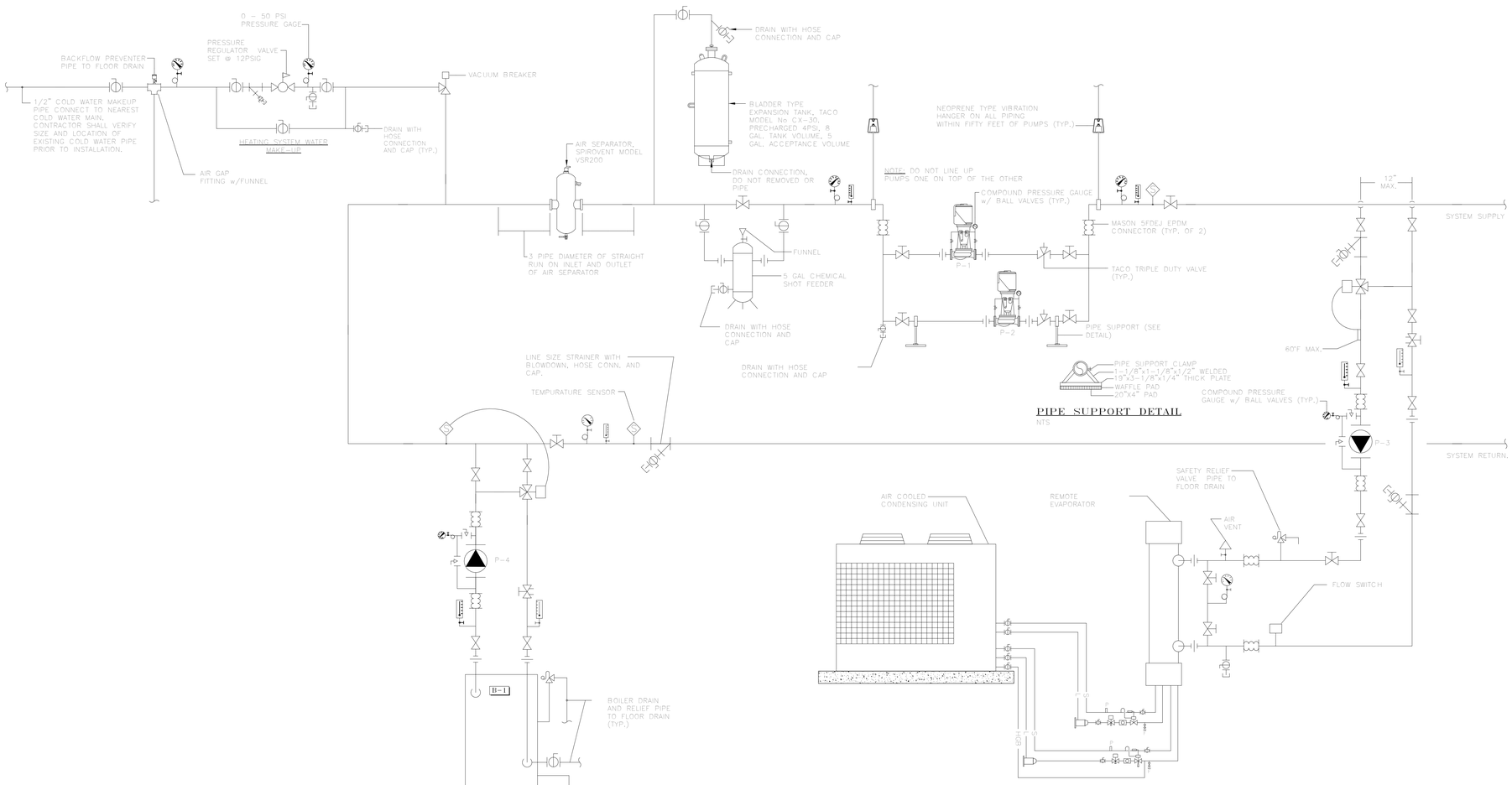

SYSTEM FLOW DIAGRAM
NTS

NOTES:

1. FULLY DRAIN SYSTEM AND REFILL INCLUDING WATER TREATMENT.

2. THE SCHEMATIC IS FOR REFERENCE ONLY.

LEGEND

- UNION
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- THREE WAY VALVE
- CIRCUIT SETTER w/ GAGE PORT
- CHECK VALVE (SWING TYPE)
- PRESSURE REDUCING VALVE
- PLUG VALVE
- SAFETY RELIEF VALVE
- EPDM FLEXIBLE CONNECTION
- PUMP
- STRAINER w/ BLOW DOWN (INLINE)
- MANUAL NON-RISING
- MANUAL LEVER
- PNEUMATIC MOTOR
- ELECTRIC MOTOR
- ELECTRIC SOLENOID
- THERMOMETER (TYP.)
- PRESSURE GAGE w/STOP
- ANGLE VALVE
- FILTER DRYER
- PRESSURE TAP (SUPERHEAT ADJUSTMENT)
- SOLENOID VALVE
- EXPANSION VALVE
- REMOTE BULB
- DRYER
- REFRIGERANT CHARGING VALVE
- OA OUTSIDE AIR SENSOR

1 M601 SYSTEM FLOW DIAGRAM
1/8" = 1'-0"

TRUE NORTH

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MECHANICAL DETAILS (Cont.)

Project Number. 6846

Drawing No.

M601

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ROOFTOP UNIT SCHEDULE

REMARKS:
1. INVERT SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL.
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE.
3. REFRIGERANT PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDING THROUGH DIGITAL INTERFACE..
4. EC MOTOR CONDENSING FANS.
5. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE.
6. SUCTION LINE ACCUMULATOR.
8. 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT).
10. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP.
11. DOWN DISCHARGE/DOWN RETURN
12. DIRECT DRIVE ECM PLENUM BLOWER. BELT AND NON-ECM BLOWERS ARE NOT ACCEPTABLE.

				SUPPLY FAN DATA				DX COIL COOLING DATA					DX COIL HEATING DATA		UNIT ELECTRICAL DATA							
TAG	LOCATION	AREA SERVED	REFRIG TYPE	TOTAL AIRFLOW (CFM)	MAX OA AIRFLOW (CFM)	ESP (IN WC)	MOTOR HP	FAN RPM	TOTAL (MBH)	SENSIBLE (MBH)	EAT. DB (°F)	EAT. WB (°F)	LAT. DB (°F)	LAT. WB (°F)	INPUT (MBH)	OUTPUT (MBH)	EAT (DEG. F)	LAT (DEG. F) (LOW)	MCA	MOCP	VOLTS	PH	HZ	WEIGHT	MANUFACTURER	MODEL NUMBER	REMARKS
RTU-2	ROOF	117 MEETING ROOM	22	3000 CFM	3000	1.0	3.00 hp	1105	97	67	82	69	63	60	200	162	70	120	42.0 A	50	208 V	3	60	1500	TRANE	YSC092	1-12
RTU-3	ROOF	213 BOOK STACKS	22	3000 CFM	3000	1.0	3.00 hp	1105	97	67	82	69	63	60	200	122	70	120	42.0 A	50	208 V	3	60	1500	TRANE	YSC092	1-12
RTU-4	ROOF	213 BOOK STACKS	22	2450 CFM	2450	1.0	2.00 hp	993	73	48	76	66	60	57	150	122	70	116	36.1 A	50	208 V	3	60	1400	TRANE	YHC072	1-12
RTU-5	ROOF	309 BOOK STACKS	22	3400 CFM	3400	1.0	3.00 hp	940	94	70	75	64	58	56	200	162	70	114	41.2 A	50	208 V	3	60	1400	TRANE	YHC092	1-12

FAN COIL UNIT SCHEDULE (FCU)

	COOLING									FAN				HEATING						ELECTRICAL DATA						
TAG NO.	TOTAL MBH	SENS MBH	GPM	% GLYCOL	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	WPD (FT)	TOTAL CFM	OA CFM	TSP (IN WC)	ESP (IN WC)	MBH	GPM	% GLYCOL	EWT (°F)	EAT (°F)	WPD (FT)	POWER	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER MODEL NUMBER	REMARKS
FCU-1	3.1	2.9	0.4	0	45	62	80/67	65/62	1.17	180	0	-	-	12	0.4	0	180	60	0.92	37 W	120	1	60	69	AIRTHERM MODEL FETF02	1,2,3,4,5,6,7
FCU-2	3.6	3.0	0.5	0	45	60	80/67	64/61	1.90	180	0	-	-	13	0.5	0	180	60	1.45	37 W	120	1	60	69	AIRTHERM MODEL FETF02	1,2,3,4,5,6,7
FCU-3	12.7	10.2	1.9	0	45	59	80/67	60/58	1.87	500	0	-	-	44	1.9	0	180	60	1.45	80 W	120	1	60	164	AIRTHERM MODEL FETF08	1,2,3,4,5,6,7
FCU-4	13.1	10.3	2.9	0	45	55	80/67	61/59	2.91	526	0	-	-	40	2.9	0	180	60	2.66	90 W	120	1	60	164	AIRTHERM MODEL FETF08	1,2,3,4,5,6,7
FCU-5	6.0	4.9	1.1	0	45	56	80/67	61/59	1.76	253	0	-	-	19	1.1	0	180	60	1.48	50 W	120	1	60	125	AIRTHERM MODEL FETF04	1,2,3,4,5,6,7
FCU-6	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL LETF06	1,2,3,4,5,6,7
FCU-7	7.4	7.2	1.0	0	45	61	80/67	63/62	0.50	403	0	-	-	30	1.0	0	180	60	0.44	80 W	120	1	60	155	AIRTHERM MODEL LETF06	1,2,3,4,5,6,7
FCU-8	11.6	9.8	2.2	0	45	56	80/67	62/60	1.90	526	0	-	-	37	2.2	0	180	60	1.73	90 W	120	1	60	164	AIRTHERM MODEL FETF08	1,2,3,4,5,6,7
FCU-9	8.9	8.0	1.4	0	45	58	80/67	61/60	1.00	403	0	-	-	34	1.4	0	180	60	0.85	80 W	120	1	60	155	AIRTHERM MODEL LETF06	1,2,3,4,5,6,7
FCU-10	4.1	3.5	0.6	0	45	58	80/67	61/59	0.79	176	0	-	-	15	0.6	0	180	60	0.64	37 W	120	1	60	69	AIRTHERM MODEL LETF02	1,2,3,4,5,6,7
FCU-11	4.1	3.5	0.6	0	45	58	80/67	61/59	0.79	176	0	-	-	15	0.6	0	180	60	0.64	37 W	120	1	60	69	AIRTHERM MODEL LETF02	1,2,3,4,5,6,7
FCU-12	4.8	4.5	0.8	0	45	58	80/67	63/61	0.76	253	0	-	-	18	0.8	0	180	60	0.73	50 W	120	1	60	125	AIRTHERM MODEL LETF04	1,2,3,4,5,6,7
FCU-13	2.0	1.9	0.2	0	45	70	80/67	63/61	0.28	180	0	-	-	8	0.2	0	180	60	0.23	37 W	120	1	60	69	AIRTHERM MODEL FETF02	1,2,3,4,5,6,7
FCU-14	3.6	3.0	0.5	0	45	60	80/67	64/61	1.90	180	0	-	-	13	0.5	0	180	60	1.45	37 W	120	1	60	69	AIRTHERM MODEL WRFF02	1,2,3,4,5,6,7
FCU-15	6.0	4.9	1.1	0	45	56	80/67	61/59	1.76	253	0	-	-	19	1.1	0	180	60	1.48	50 W	120	1	60	125	AIRTHERM MODEL WRFF04	1,2,3,4,5,6,7
FCU-16	6.0	4.9	1.1	0	45	56	80/67	61/59	1.76	253	0	-	-	19	1.1	0	180	60	1.48	50 W	120	1	60	125	AIRTHERM MODEL WRFF04	1,2,3,4,5,6,7
FCU-17	2.0	1.9	0.2	0	45	70	80/67	63/61	0.28	180	0	-	-	8	0.2	0	180	60	0.23	37 W	120	1	60	69	AIRTHERM MODEL FETF02	1,2,3,4,5,6,7
FCU-18	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7
FCU-19	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7
FCU-20	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7
FCU-21	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7
FCU-22	34.4	25.8	8.0	0	45	55	80/67	60/58	6.70	1200	0	-	0.50	102	8.0	0	180	60	5.90	1/2 HP	208	3	60	200	MAGICAIRE MODEL 36HBAW-4	1,2,3,4,5,6,7
FCU-23	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7
FCU-24	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7
FCU-25	7.8	7.4	1.0	0	45	62	80/67	64/61	1.64	430	0	-	-	28	1.0	0	180	60	1.38	82 W	120	1	60	155	AIRTHERM MODEL CRBB06	1,2,3,4,5,6,7

NOTES: 1. TOGGLE DISCONNECT. 2. 3 SPEED ECM MOTOR. 3. 3-WAY MODULATING CONTROL VALVE. 4. AUXILIARY DRAIN PAN. 5. 5" EXTENDED CABINET. 6. INTEGRAL CONDENSATE PUMP. 7. HIGH CONDENSATE CUT-OFF WITH DRY CONTRACTS.

1 / M700 FAN COIL UNIT SCHEDULE
NOT TO SCALE

SPLIT SYSTEM CONDENSING UNIT SCHEDULE (OUTDOOR UNIT)

REMARKS:
1. COOLING CAPACITY RATED AT AMBIENT TEMPERATURES 96°F DB AND HEATING CAPACITY RATED AT AMBIENT TEMPERATURE 0°F DB.
2. R410A REFRIGERANT.
3. HEAT PUMP SYSTEM.
4. SEAL PER MANUFACTURERS REQUIREMENTS.
5. POWER WIRING AND INTERCONNECTING WIRING SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
6. INSTALL WITH 18" (MIN.) QUICK SLING SNOW STAND.
7. BUILT-IN BASE PAN HEATER.
8. PRO-HEAT PERFORMANCE FOR 100% HEATING CAPACITY AT 5°F.
9. COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH ELECTRICIAN.

										ELECTRICAL DATA							
Tag Name	Tag #	LOCATION	UNITS SERVED	RATED COOLING CAPACITY (BTU/H)	RATED HEATING CAPACITY (BTU/H)	MIN SUCTION LINE (IN. OD)	MIN LIQUID LINE (IN. OD)	dBA	IEER/SEER	VOLTS	PH	HZ	MOCP	MCA	WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	REMARKS
CU	1A	ROOF	FCU 1A	42,000	45,000	5/8"	3/8"	52	14.3	208	1	60	31	25.0	211	MITSIBISHI	PUY-A42NKA7	1-9
CU	1B	ROOF	FCU 1B	42,000	45,000	5/8"	3/8"	52	14.3	208	1	60	31	25.0	211	MITSIBISHI	PUY-A42NKA7	1-9

SPLIT SYSTEM EVAPORATING UNIT SCHEDULE (INDOOR UNIT)

REMARKS:
1. COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH ELECTRICAN.
2. R410A REFRIGERANT.
3. COOLING CAPACITY RATED AT AMBIENT TEMPERATURES 91°F DB/73°F WB AND HEATING CAPACITY RATED AT AMBIENT TEMPERATURE -4°F DB.
4. SIZE REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
5. PROVIDE WITH WIRED REMOTE THERMOSTAT MODEL.
6. PROVIDE WITH MANUFACTURER'S ACCESSORY CONDENSATE PUMP TO BE FIELD INSTALLED AND POWERED BY THE INDOOR UNIT.
7. PROVIDE FIELD INSTALLED EXTERNAL SAFE PAN WITH OVERFLOW SWITCH.
8. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT.

								ELECTRICAL DATA							
TAG	TAG #	AREA SERVED	NOMINAL COOLING CAPACITY (BTH/H	NOMINAL HEATING CAPACITY (BTU/H)	MIN SUCTION LINE (IN. OD)	MIN. LIQUID LINE (IN. OD)	AIRFLOW (CFM) HI	VOLTS	PH	HZ	MOCP	MCA	WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	REMARKS
FCU	1A	MAKER SPACE	42000	45000	5/8"	3/8"	1200	208 V	1	60	31	25.0 A	56	MITSIBISHI	PLA-A42EA7	1-8
FCU	1B	MAKER SPACE	42000	45000	5/8"	3/8"	1200	208 V	1	60	31	25.0 A	56	MITSIBISHI	PLA-A42EA7	1-8

GAS FIRED BOILER SCHEDULE

REMARKS:
1. CONDENSING BOILER WITH CONDENSATE NEUTRALIZER.
2. PROVIDE INTEGRAL DISCONNECT.
3. THE EXISTING BOILER PRIMARY PUMPS P-3 & P-4 SHALL BE UTILIZED FOR THE NEW BOILERS.
4. 20:1 TURNDOWN.
5. PROVIDE NEW DIRECT 6" SS AIR INLET AND 6" SS FLUE VENT.
6. PROVIDE WITH BACNET CONTROLS FOR CONNECTION TO THE NEW BMS. CONNECTION TO BMS AND PROGRAMMING IS BY THE ATC UNDER A SEPERATE CONTRACT.

									ELECTRICAL DATA						
TAG NO.	FUEL TYPE	INPUT RATE (MBH)	OUTPUT RATE (MBH)	EWT (°F)	LWT (°F)	WPD (FT)	FUEL INLET PRESSURE IN WC	GPM	OPERATING PRESSURE (MAX. PSIG)	VOLTS	PH	Hz	W	WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	REMARKS

ENERGY RECOVERY VENTILATOR

1. COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH DIV. 26.
2. PROVIDE WITH MERV 8 FILTERS.
3. VARIABLE SPEED EC MOTORS.
4. MOTORIZED INTAKE AND EXHAUST DAMPERS.
5. FACTORY PROVIDED 14" ROOF CURB.
6. UNIT SHALL OPERATE CONTINUOUSLY.

				ELECTRICAL DATA										
TAG	TAG #	CFM	EXHAUST CFM	PH	VOLTS	HERTZ	MOCP	HP	MCA	FLA	WEIGHT	MANUFACTURER	MODEL NUMBER	REMARKS
ERV	1			1	120 V	60			0.0 A		200	VIESSMANN VITODENS	200 WB211-44	1,2,3,4,5
ERV	1	250 CFM	300	1	120 V	60	15	0.25 hp	15.0 A	0.9 A	50	GREENHECK	MC-5-VG-FM	1-7

Certification

DANIEL JAY HERZIG JR. No. 7806 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by Author
Checked by Checker

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Sheet Contents
MECHANICAL SCHEDULES

Project Number. 6846

Drawing No.
M700

Sheet of

PART 1 - GENERAL PROVISIONS FOR MECHANICAL WORK:

1.01 GENERAL REQUIREMENTS:

A. SCOPE OF WORK SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, HOISTING, RIGGING, INSURANCE, ETC., TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND HEREIN SPECIFIED FOR A COMPLETE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL CODES AND ORDINANCES HAVING JURISDICTION, AS INTERPRETED BY THE ARCHITECT/ENGINEER.

B. APPLY AND PAY FOR ALL NECESSARY INSPECTION FEES, LICENSES AND PERMITS REQUIRED BY THE PROPER AUTHORITIES HAVING JURISDICTION.

C. ASBESTOS CUTTING, REMOVAL, ENCAPSULATING OR DISPOSAL IS NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT OR PROJECT DOCUMENTS. ALL ASBESTOS CONSIDERATIONS AND INVOLVEMENT ARE THE SOLE RESPONSIBILITY OF THE OWNER OUTSIDE THE SCOPE OF THIS PROJECT. THE PRESENCE OF ASBESTOS MATERIALS WITHIN THE WORKING AREAS OF THIS PROJECT HAVE NOT BEEN INVESTIGATED OR DETERMINED. REFER TO OWNER FOR ANY CLARIFICATIONS REGARDING THE PRESENCE OF ASBESTOS MATERIALS. HOWEVER, THE CONTRACTOR SHALL RE-INSULATE ANY EXISTING PIPING AT NEW "TIE-INS" WHERE EXISTING INSULATION WAS REMOVED. REFER TO OWNER FOR ABATEMENT PROCEDURES.

D. THE BUILDING WILL BE OCCUPIED DURING ALL OF THE CONSTRUCTION PROCESS. THE CONSTRUCTION SCHEDULE SHALL BE DEVELOPED WITH THE UNDERSTANDING THAT THE BUILDING IS OCCUPIED AND THAT IT CAN NEITHER BE CLOSED NOR CAN THE OWNER'S OPERATIONS STOP.

E. NO EXITS SHALL BE CLOSED WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION.

F. ANY UTILITY OUTAGES OR SYSTEM SHUTDOWNS FOR CONSTRUCTION SHALL BE SCHEDULED WITH THE ARCHITECT/OWNER PRIOR TO COMMENCING OF WORK.

G. SUBMIT SHOP DRAWINGS OF ALL HVAC EQUIPMENT AND RECORD DRAWINGS FOR ALL WORK PROVIDED UNDER THIS CONTRACT TO THE ARCHITECT/OWNER FOR HIS USE PRIOR TO ORDERING, FABRICATING OR INSTALLING SAME.

H. ALL MATERIALS SHALL BE NEW. ALL EQUIPMENT SHALL BEAR THE U.L. LABEL.

I. RECORD DRAWINGS: THE CONTRACTOR SHALL KEEP DAILY UPDATED ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED ON THE CONTRACT DRAWINGS. THE RECORD DRAWINGS SHALL BE KEPT AT THE JOB SITE, AVAILABLE TO THE OWNER AT ALL TIMES AND LABELED AS "PROJECT RECORD INFORMATION - JOB SET". WHEN WORK IS COMPLETED THIS CONTRACTOR SHALL PROVIDE TO THE OWNER ONE COMPLETE SET OF MARKED-UP ORIGINAL PRINTS, UPDATED CAD DRAWINGS AND A CD WITH CAD FILES.

1.02 GUARANTEES:

A. ALL WORK, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED AGAINST DEFECTS RESULTING FROM THE USE OF INFERIOR MATERIALS, EQUIPMENT, OR WORKMANSHIP FOR ONE YEAR FROM THE DATE OF FINAL COMPLETION OF THE CONTRACT, OR FROM FULL ACCEPTANCE BY THE OWNER, WHICHEVER IS EARLIER. ALL DEFECTIVE MATERIAL OR WORKMANSHIP AS WELL AS DAMAGES TO THE WORK OF ALL TRADES RESULTING FROM SAME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

B. THE GUARANTEE PERIOD SHALL BE FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, WHICH SHALL BE THE DATE OF FINAL PAYMENT OR THE DATE OF FORMAL NOTICE OF ACCEPTANCE, WHICHEVER IS EARLIER.

C. CERTIFICATION SHALL BE SUBMITTED BY THE CONTRACTOR ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY ALL EQUIPMENT.

D. IF, WITHIN ANY GUARANTEE PERIOD, REPAIRS OR CHANGES TO GUARANTEED WORK ARE REQUIRED AS A RESULT OF THE USE OF DEFECTIVE MATERIALS OR EQUIPMENT, INFERIOR WORKMANSHIP OR WORK THAT IS NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT, AND UPON RECEIPT OF NOTICE FROM THE OWNER, THE FOLLOWING SHALL BE DONE WITHOUT EXPENSE TO THE OWNER:

1. REPAIR ALL DAMAGE TO THE BUILDING OR SITE/EQUIPMENT OR CONTENTS THEREOF WHICH IS THE RESULT OF THE USE OF DEFECTIVE MATERIALS OR EQUIPMENT OR INFERIOR WORKMANSHIP, OR OF WORK NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT.

2. MAKE GOOD ANY WORK OR MATERIALS, OR THE EQUIPMENT AND CONTENTS OF SAID BUILDING OR SITE DISTURBED IN FULFILLING ANY SUCH GUARANTEE.

3. IN FULFILLING THE REQUIREMENTS OF THE CONTRACT OR OF ANY GUARANTEE EMBRACED IN OR REQUIRED THEREBY, ANY WORK GUARANTEED UNDER ANOTHER CONTRACT IS DISTURBED, RESTORE SUCH DISTURBED WORK TO ORIGINAL CONDITION AND GUARANTEE SUCH RESTORED WORK TO THE SAME EXTENT AS IT WAS GUARANTEED UNDER SUCH OTHER CONTRACT.

4. IF UPON FAILURE TO PROCEED PROMPTLY AFTER NOTICE TO COMPLY WITH THE TERMS OF THE GUARANTEE, THE OWNER MAY HAVE THE DEFECTS CORRECTED AND CONTRACTOR AND HIS SURETY SHALL BE LIABLE FOR ALL EXPENSES INCURRED.

1.03 CONTRACTORS RESPONSIBILITIES:

A. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY INJURIES TO PEOPLE, EMPLOYEES OR DAMAGE DONE TO BUILDING PREMISES OR ADJOINING AREAS OR TO OTHER WORK RESULTING FROM EXECUTION ON HIS PART OF WORK, IN ANY MANNER WHATSOEVER.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTION OF HIS WORK, MATERIALS, PEOPLE OR EMPLOYEES FROM INJURY OR LOSS DONE BY OTHERS AND SHALL MAKE GOOD SUCH INJURY AT HIS OWN EXPENSE.

C. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

D. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SAFETY OF CONTRACTOR' EMPLOYEES, MATERIALS OR EQUIPMENT.

1.04 COORDINATION AND INTERPRETATION OF DRAWINGS:

A. THIS CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT.

B. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.

C. MECHANICAL EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.

D. IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.

E. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

F. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.

1.05 DEMOLITION:

A. ALL DEMOLITION OF INACTIVE HVAC SYSTEMS WITHIN THE CONTRACT LIMITS SHALL BE BY THE MECHANICAL CONTRACTOR. EACH BIDDER FOR WORK UNDER THIS SECTION OF THE SPECIFICATION SHALL INCLUDE IN HIS BID ALL COSTS INVOLVED IN DISCONNECTING ALL PIPING, DUCTWORK AND UNUSED CONTROL WIRING SERVING EXISTING HVAC EQUIPMENT THAT IS TO BE REMOVED. COORDINATE ALL SHUTDOWN OF EXISTING SYSTEMS AS REQUIRED, WITH THE ARCHITECT/OWNER, THROUGH THE GENERAL CONTRACTOR.

B. CONTRACTOR SHALL VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. DEMOLITION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING.

C. PRIOR TO COMMENCING DEMOLITION, CONTRACTOR SHALL IDENTIFY WITH OWNER ANY EQUIPMENT TO BE RETURNED TO THE OWNER AFTER DEMOLITION. ALL OTHER DEBRIS SHALL BE DISPOSED OF BY THIS CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

D. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF THE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, VALVES, ETC., IN DESIGNATED AREAS. CUT & CAP PIPING & DUCTWORK BACK TO MAINS. PATCH ALL ROOF AND WALL PENETRATIONS TO MATCH EXISTING.

E. THIS CONTRACTOR SHALL PROTECT WORK AGAINST INJURY OR DAMAGE; AND CAREFULLY STORE MATERIAL AND EQUIPMENT TO BE RELOCATED. OPEN ENDS OF WORK SHALL BE CLOSED WITH TEMPORARY COVERS OR PLUGS DURING STORAGE AND CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIAL.

F. SEE MECHANICAL RELOCATION DRAWINGS FOR NEW LOCATIONS OF EQUIPMENT CALLED OUT "TO BE RELOCATED." ALL RELOCATED EQUIPMENT SHALL HAVE ASSOCIATED ELECTRICAL AND CONTROLS EQUIPMENT RELOCATED ACCORDINGLY.

1.06 EQUIPMENT:

A. PRODUCTS REQUIRED BY CONSTRUCTION BUT NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE A/E.

B. PROVIDE ALL MATERIALS, LABOR, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEMS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

C. PROVIDE ALL HANGERS AND SUPPORTS AS REQUIRED TO SUPPORT ALL NEW PIPING, DUCTWORK AND EQUIPMENT.

D. ALL EXPOSED EQUIPMENT (REGISTERS, UNIT HEATERS, ETC..) SHALL HAVE COLORS SELECTED BY THE ARCHITECT, UNLESS NOTED OTHERWISE.

E. DUCT MOUNTED SMOKE DETECTOR - FURNISHED AND INSTALLED BY HVAC CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE HVAC CONTRACTOR.

F. MOTORS: ALL MOTORS SHALL BE RATED AT 85% POWER FACTOR AT FULL RATED LOAD. MOTORS LESS THAN 85% POWER FACTOR SHALL BE CORRECTED TO 90% POWER FACTOR AT THE FACTORY. ALL MOTORS SHALL BE RATED PREMIUM EFFICIENCY. MOTORS USED WITH VARIABLE FREQUENCY DRIVES SHALL BE RATED FOR INVERTER DUTY.

G. STARTERS: STARTERS SHALL BE CUTLER HAMMER OR EQUAL, WITH PUSH BUTTONS, HOA SWITCHES, AUXILIARY CONTACTS, ETC. FURNISH STARTERS FOR MOTORS ½ HP AND OVER AND AS REQUIRED BY SEQUENCE OF OPERATION. STARTERS FOR MOTORS 200 V/3 PHASE AND OVER, USE PRODUCTS WITH BUILT-IN, 120-VOLT CONTROL CIRCUIT TRANSFORMER. THIS CONTRACTOR SHALL SUPPLY ALL STARTERS UNLESS SPECIFICALLY SHOWN OR SPECIFIED ELSEWHERE. ELECTRICAL CONTRACTOR SHALL INSTALL STARTERS.

H. DISCONNECTS PROVIDED BY THIS CONTRACTOR WILL BE INSTALLED BY ELECTRICAL CONTRACTOR, WITH THE EXCEPTION OF FACTORY MOUNTED DISCONNECTS.

I. PROVIDE VIBRATION ISOLATION ON MOTOR DRIVEN EQUIPMENT 0.5 HP (0.35 KW) TO 10 HP (7.5 KW), PLUS CONNECTED PIPING AND DUCTWORK. COMPLY WITH MINIMUM STATIC DEFLECTIONS AS RECOMMEND BY ASHRAE FOR SELECTION AND APPLICATION OF VIBRATION ISOLATION MATERIALS AND UNITS.

J. THIS BUILDING IS CLASSIFIED AS GROUP I FOR SEISMIC HAZARD EXPOSURE AND CATEGORY "C" FOR SEISMIC PERFORMANCE. ALL SUPPORTS AND ANCHORS SHALL BE DESIGNED AND INSTALLED PER REQUIREMENTS FOR THESE CLASSIFICATIONS AS OUTLINED IN THE RI STATE BUILDING CODE. SITE LOCATION AND PREVAILING ORIENTATION SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN.

1.07 EXECUTION:

A. ALL ROUGH CUTTING, CORE DRILLING AND PATCHING REQUIRED FOR INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ALL FINISH PATCHING RELATIVE TO THIS CONTRACTOR'S WORK SHALL BE THE RESPONSIBILITY OF OTHER TRADES IN ACCORDANCE WITH OTHER SECTIONS OF THIS SPECIFICATION. COORDINATE ALL WORK FOR A COMPLETE AND FINISHED INSTALLATION.

B. INSTALL ALL MATERIALS, ACCESSORIES AND EQUIPMENT ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS MANUFACTURERS INSTRUCTIONS.

C. INSTALLATION OF THE HVAC SYSTEM SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT OF NEW AND EXISTING EQUIPMENT.

D. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.

E. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.

F. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.

G. EXACT LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS TO BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN. ENGINEER'S SHALL APPROVE FINAL LOCATION IF LOCATION OF CEILING DIFFUSERS SHOWN ON THE MECHANICAL PLANS ARE DIFFRENT THEN THE REFLECTED CEILING PLANS BY MORE THEN ONE CEILING TILE.

H. EXACT ELEVATION FOR SIDE WALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.

I. INSTALL ROOM THERMOSTATS 54" (MAXIMUM) ABOVE FINISHED FLOOR OR AS OTHERWISE DIRECTED BY THE ARCHITECT.

J. CONTRACTOR SHALL FLASH & SEAL ALL ROOF PENETRATIONS PER ROOFING MANUFACTURER'S REQUIREMENTS IN ORDER TO MAINTAIN INTEGRITY OF EXISTING WARRANTY. COORDINATE THESE REQUIREMENTS WITH ROOFING MANUFACTURER, OWNER, ARCHITECT, ENGINEER AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTING A BID. NO PENETRATIONS WILL BE ALLOWED UNTIL FINAL WRITTEN APPROVAL OF METHODS AND MATERIALS IS RECEIVED FROM THE ROOFING MANUFACTURER.

K. CONTRACTOR TO DRAIN, FLUSH, FILL AND BALANCE ALL SYSTEMS AS REQ'D TO COMPLETE THE WORK

1.09 EQUIPMENT, VALVE, AND PIPE IDENTIFICATION:

A. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PRODUCTS ARE LIMITED TO SETON, BRADY OR BRIMAR WHOM HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN THE MANUFACTURING OF MECHANICAL IDENTIFICATION PRODUCTS.

B. PLASTIC PIPE MARKERS

1. SNAP-ON TYPE: PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON, COLOR-CODED PIPE MARKERS, COMPLYING WITH ANSI A13.1.

2. FOR EXTERNAL DIAMETERS LESS THAN 6" (INCLUDING INSULATION IF ANY), PROVIDE FULL-BAND PIPE MARKERS, EXTENDING 360 DEGREES AROUND PIPE AT EACH LOCATION, FASTENED BY SNAP-ON APPLICATION OF PRE-TENSIONED SEMI-RIGID PLASTIC PIPE MARKER.

3. THE FOLLOWING DESCRIPTION AND COLORS SHALL BE USED FOR PIPING IDENTIFICATION WITH FLOW ARROWS UNLESS NOTED OTHERWISE:

LEGEND	SERVICE	COLOR
HWS	HEATING HOT WATER SUPPLY	YELLOW
HWR	HEATING HOT WATER RETURN	YELLOW
DCW	DOMESTIC COLD WATER	GREEN
DHW	DOMESTIC HOT WATER	GREEN
DHWR	DOMESTIC HOT WATER RETURN	GREEN
SANITARY	SANITARY SEWER	GREEN
VENT	VENT	GREEN
GAS	FUEL GAS	YELLOW

COLOR BANDING SHALL MEET LATEST EDITION OF NSI AND OSHA REQUIREMENTS.

C. WHERE AIR OR HYDRONIC SYSTEMS HAVE BEEN BALANCED, THE CONTRACTOR SHALL PERMANENTLY MARK, ON THE DEVICE, THE CORRECT BALANCING SETTLING OF EACH VALVE, DAMPER, OR SIMILAR DEVICE.

D. VALVE INDEXING AND VALVE CHART:

1. USE BLACK LAMINATED PHENOLIC TAGS 2" IN DIAMETER WITH INCISED LETTERS 3/8" HIGH.

2. USE BRASS "S" HOOKS AND/OR BRASS CHAIN TO ATTACH TO VALVE.

3. USE PRINTING 1/8" HIGH FOR CHARTS.

4. PLACE CHARTS IN METAL FRAME WITH NON-GLARE GLASS.

E. EQUIPMENT IDENTIFICATION:

1. USE BLACK LAMINATED PHENOLIC NAMEPLATES 6" LONG X 3" HIGH WITH WHITE INCISED LETTERING ½" HIGH. ATTACH TO EQUIPMENT WITH STAINLESS STEEL OR BRASS SCREWS, OR RIVETS.

2.08 REFRIGERANT PIPE INSULATION:

A. PROVIDE AND INSTALLED 3/4" THICK INSULATION ON ALL PIPING MANUFACTURED BY ARMACELL.

B. INSULATION MATERIAL SHALL BE A FLEXIBLE, CLOSED-CELL ELASTOMERIC INSULATION IN TUBULAR FORM MODEL APARMAFLEX SS. PRODUCT SHALL MEETS THE REQUIREMENTS AS DEFINED IN ASTM C 534, "SPECIFICATION FOR PREFORMED ELASTOMERIC CELLULAR THERMAL INSULATION IN SHEET AND TUBULAR FORM."

C. INSULATION MATERIALS SHALL HAVE A CLOSED-CELL STRUCTURE TO PREVENT MOISTURE FROM WICKING WHICH MAKES IT AN EFFICIENT INSULATION.

D. INSTALL PIPE INSULATION BY SLITTING TUBULAR SECTIONS AND APPLYING ONTO PIPING. ALL SEAMS AND BUTT JOINTS SHALL BE ADHERED AND SEALED USING ARMAFLEX 520 OR 520 BLVADHESIVE. WHEN USING AP ARMAFLEX SS, ONLY THE BUTT JOINTS SHALL BE ADHERED USING ARMAFLEX 520 OR 520 BLVADHESIVE.

E. INSULATION SHALL BE PUSHED ONTO THE PIPE, NEVER PULLED. STRETCHING OF INSULATION MAY RESULT IN OPEN SEAMS AND JOINTS.

F. ALL EDGES SHALL BE CLEAN CUT. ROUGH OR JAGGED EDGES OF THE INSULATION SHALL NOT BE PERMITTED. PROPER TOOLS SUCH AS SHARP NON-SERRATED KNIVES MUST BE USED.

G. ON COLD PIPING, INSULATION SHALL BE ADHERED DIRECTLY TO THE PIPING AT THE HIGH END OF THE RUN USING A TWO-INCH STRIP OF ARMAFLEX 520 OR 520 BLVADHESIVE ON THE ID OF THE INSULATION AND ON THE PIPE. ALL EXPOSED END CUTS OF THE INSULATION SHALL BE COATED WITH ARMAFLEX 520 OR 520 BLVADHESIVE. ALL PENETRATIONS THROUGH THE INSULATION AND TERMINATION POINTS MUST BE ADHERED TO THE SUBSTRATE TO PREVENT CONDENSATION MIGRATION.

H. EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE SPECIFIED.

I. HANGERS: ARMAFIX ID SHALL BE USED TO PREVENT COMPRESSION OF INSULATION AT STANDARD SPLIT, CLEVIS HANGERS OR OTHER PIPE SUPPORT SYSTEMS. TO MINIMIZE THE MOVEMENT OF ARMAFIX, IT IS RECOMMENDED THAT A PAIR OF NON-SKID PADS BE ADHERED TO THE CLAMPS. IN ADDITION, TO PREVENT LOOSENING OF THE CLAMPS, USE OF AN ANTIVIBRATORY FASTENER, SUCH AS A NYLON-LOCKING NUT, IS ALSO RECOMMENDED.

J. PVC PIPE JACKET: PROVIDE AND INSTALL ZESTON 300 SERIES PVC HEAVY-DUTY FITTING COVERS AND ZESTON PVC PIPE JACKET ON ALL EXTERIOR PIPING SPECIFICALLY DESIGNED FOR INDUSTRIAL AND COMMERCIAL APPLICATIONS.

2.09 PIPING:

A. HEATING/COOLING:

1. PIPING 2-1/2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH SCREWED FITTING OR TYPE L HARD COPPER SEAMLESS TUBE AS MANUFACTURED BY ANACONDA, REVERE, OR CHASE, WITH WROUGHT COPPER FITTINGS, SOLDERED WITH LEAD-FREE SOLDER. UNIONS OR FLANGES SHALL BE INSTALLED AT ALL CONNECTIONS TO ALL EQUIPMENT.

2. PIPING 3" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS AND 150 LB. FLANGES.

3. PIPING EXPANSION: PROVIDE MEANS FOR THE MECHANICAL EXPANSION OF THE PIPING IN THE FORM OF EXPANSION LOOPS LOCATED AS REQUIRED. USE TRIFLEX PRODUCT.

B. CONDENSATE:

1. PVC PIPE: ASTM D1785, SCHEDULE 40

2. FITTINGS: ASTM D2466 OR D2467, PVC.

3. JOINTS: ASTM D2855, SOLVENT WELD.

4. PITCH ALL PIPING 1/4" - 1'-0".

C. REFRIGERANT PIPING:

1. COPPER TUBING: ASTM B88, TYPE ACR, HARD DRAWN.

2. FITTINGS: ASME B16.18, CAST BRASS, OR ASME B16.22, SOLDER WROUGHT COPPER.

3. JOINTS: SOLDER, 95-5 TIN-ANTIMONY, OR TIN AND SILVER, WITH MELTING RANGE 430 TO 535 DEGREES F.

D. UNIONS: USE DIELECTRIC UNIONS, FLANGES OR WATERWAYS TO CONNECT DISSIMILAR METAL PARTS.

E. PIPE SLEEVES: THROUGH OUTSIDE MASONRY WALLS AND BELOW GRADE MASONRY WALLS, USE SCHEDULE 40 DUCTILE IRON, CAULKED WATERTIGHT. THROUGH MASONRY FLOORS OR INTERIOR MASONRY WALLS AND FIRE RATED ASSEMBLIES, USE SCHEDULE 40 GALVANIZED STEEL PIPE. THROUGH INTERIOR NON-FIRE RATED STUD PARTITIONS, USE 22-GAUGE GALVANIZED SHEET METAL.

F. ESCUTCHEONS: ESCUTCHEONS FOR PIPES PASSING THROUGH OUTSIDE WALLS SHALL BE SOLID CAST BRASS, FLAT TYPE, SECURED TO PIPE WITH A SET SCREW. ESCUTCHEONS FOR PIPES PASSING THROUGH FLOORS SHALL BE SPLIT HINGED, CAST BRASS TYPE DESIGNED TO FIT PIPE ON ONE END AND COVER SLEEVE PROJECTION THROUGH FLOOR ON OTHER END. ESCUTCHEONS FOR PIPES PASSING THROUGH INTERIOR WALLS, PARTITIONS AND CEILINGS SHALL BE SPLIT-HINGED, CAST BRASS, CHROMIUM PLATED TYPE. RITTER PATTERN, CASTING CO., #3A., BEATON & CORBIN AND/OR CALDWELL PRODUCTS WILL BE ACCEPTABLE.

2.10 PIPE HANGERS AND SUPPORTS:

A. COPPER TUBING SHALL BE SUPPORTED WITH SPLIT RING HANGERS, COPPERIZED WITH SUPPORTING ROD.

B. CAST IRON SOIL PIPE SHALL BE HUNG ONE HANGER FOR EACH PIPE LENGTH, CLOSE TO HUB.

C. PVC PIPE SHALL BE SUPPORTED NO MORE THAN 4'-0" ON CENTER.

D. USE INSULATION PROTECTION SADDLES OR SHIELDS FOR ALL INSULATED COLD PIPING AND WHERE HANGER IS OUTSIDE THE INSULATION. SECURE ALL SADDLES AND SHIELDS TO THE INSULATION TO PREVENT SLIPPAGE OR SHIFTING THAT MAY CAUSE THE SHIELD TO FALL TO THE GROUND. SADDLES SHALL BE SPOT WELDED TO HANGERS.

E. PIPE HANGERS AND SUPPORTS

F. CLEVIS TYPE HANGERS, GRINNELL, FIG. 260, SHALL BE USED EXCEPT AS OTHERWISE NOTED IN SECTION 15050 - VIBRATION ISOLATION AND SEISMIC RESTRAINT. SUPPORT PIPES FOUR INCHES AND OVER WITH GRINNELL, FIGURE 181 OR 171 ADJ., PIPE ROLL WITH PIPE COVERING PROTECTION SADDLE.

G. PERFORATED BAND IRON, WIRE, CHAIN OR OTHER PIPING SHALL NOT BE USED AS SUPPORTS NOR SHALL HANGER RODS PIERCE DUCTWORK.

H. VERTICAL PIPING SUPPORTS SHALL BE PROVIDED WHERE REQUIRED, EQUAL TO GRINNELL STEEL EXTENSION PIPE CLAMPS, FIGURE 261, OR SOMERVILLE MANUFACTURE.

I. USE COPPERIZED EQUIPMENT ON COPPER PIPE AND PVC COATED FOR PVC PIPE.

J. ON PIPING CONVEYING FLUID OR GASSES AT TEMPERATURES BELOW 60?. F, SUPPORT SHALL BE OUTSIDE THE PIPE INSULATION. USE INSULATION PROTECTION SADDLES FOR EACH SUPPORT; SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION FOR EACH SIZE AND SERVICE OF PIPE.

K. WHERE SUBJECTED TO CORROSIVE ATMOSPHERES USE STAINLESS STEEL PRODUCTS.

2.11 PIPING INSULATION:

A. FIBERGLASS PIPE INSULATION SHALL BE BY OWENS CORNING TYPE SSL-II OR APPROVED EQUAL BY JOHNS MANVILLE OR CERTAINTEED. INSULATION SHALL HAVE FACTORY APPLIED ALL-SERVICE JACKET (ASJ) AND TWO-COMPONENT ADHESIVE CLOSURE SYSTEM, RATED FOR A MAXIMUM SERVICE TEMPERATURE OF 850°F. FOR LARGE PIPE SIZES WHERE SSL-II IS NOT AVAILABLE, THE SINGLE ADHESIVE SSL CLOSURE MAY BE SUBSTITUTED. CIRCUMFERENTIAL JOINTS SHALL BE SEALED BY BUTT STRIPS HAVING A TWO-COMPONENT SEALING SYSTEM.

1. PIPING 1-1/2" AND SMALLER SHALL HAVE A MINIMUM INSULATION THICKNESS OF 1".

2. PIPING LARGER THAN 1-1/2" SHALL HAVE A MINIMUM INSULATION THICKNESS OF 2".

3. INSULATION THICKNESS IS BASED ON A "K" VALUE NOT EXCEEDING 0.27 BTU PER INCH/H*SQ.FT.*°F.

B. FITTINGS AND VALVES SHALL BE INSULATED WITH PRE-FORMED FIBERGLASS FITTINGS. THICKNESS SHALL BE EQUAL TO ADJACENT PIPE INSULATION. FINISH SHALL BE WITH PRE-FORMED PVC FITTING COVERS.

C. FLANGES, COUPLINGS AND VALVE BONNETS SHALL BE COVERED WITH AN OVERSIZED PIPE INSULATION SECTION SIZED TO PROVIDE THE SAME INSULATION THICKNESS AS ON THE MAIN PIPE SECTION. AN OVERSIZED INSULATION SECTION SHALL BE USED TO FORM A COLLAR BETWEEN THE TWO INSULATION SECTIONS WITH LOW-DENSITY BLANKET INSULATION BEING USED TO FILL GAPS. JACKETING SHALL MATCH THAT USED ON STRAIGHT PIPE SECTIONS. WHERE FITTINGS ARE TO BE LEFT EXPOSED, INSULATION ENDS SHOULD BE BEVELED AWAY FROM BOLTS FOR EASY ACCESS.

D. REFRIGERANT PIPING: ARMAFLEX WITH PVC JACKET.

2.15 VALVES AND SPECIALTIES:

A. PROVIDE WHERE SHOWN ON THE DRAWINGS AND AT ALL HIGH POINTS IN THE PIPING AND AT ALL AIR HANDLING UNIT COILS, A SPIROTOP AUTOMATIC AIR VENT WITH SHUT-OFF. FURNISH TO THE GENERAL CONTRACTOR ACCESS PANELS AS MANUFACTURED BY MILCOR FOR EACH CONCEALED AIR VENT.

B. PROVIDE WHERE SHOWN ON THE DRAWINGS AT ALL HEATING COILS, A #417 AUTOMATIC COIN VENT WITH SEAT AND SHUT-OFF, MANUFACTURED BY TACO. FURNISH TO THE GENERAL CONTRACTOR ACCESS PANELS AS MANUFACTURED BY MILCOR FOR EACH CONCEALED COIN VENT.

C. PROVIDE ALL REQUIRED VALVES FOR THE EQUIPMENT AS SHOWN ON THE PLANS AND AS REQUIRED FOR PROPER OPERATION OF THE EQUIPMENT. PROVIDE THROTTLING VALVES WHERE REGULATION OF FLOW IS NECESSARY OR DESIRABLE. CHECK VALVES WHERE REVERSE FLOW IS LIABLE UNDER ANY CONDITIONS AND SHUT-OFF VALVES ON ALL LINES CONNECTING TO ANY PIECE OF EQUIPMENT, INCLUDING HEATING AND VENTILATING UNITS, COILS, UNIT HEATERS AND FIN TUBE RADIATION. ALL VALVES SHALL BE 125-LB. STANDARD CONSTRUCTION. VALVES SHALL BE BRONZE OR BRASS. VALVES 3" AND LARGER SHALL BE FLANGED ENDS. ALL VALVES SHALL HAVE THE NAME OR TRADEMARK OF THE MANUFACTURER AND GUARANTEED WORKING PRESSURE CAST ON THE BODY OF THE VALVE. ALL EQUIPMENT SHALL HAVE ISOLATION VALVES. ALL VALVES SHALL HAVE EXTENSIONS SUFFICIENT TO CLEAR INSTALLATION.

D. PROVIDE ALL VALVES OF THE SAME MANUFACTURER (JENKINS, FAIRBANKS, CRANE OR LUNKENHEIMER) OF TOP LINE, FIRST QUALITY.

E. CHECK VALVES SHALL BE OF THE HORIZONTAL SWING TYPE WITH HINGED CHECK, GROUND SEAT AND APPROVED TYPE DISCS.

F. GLOBE AND ANGLING VALVES USED FOR THROTTLING SERVICES SHALL BE OF THE PLUG TYPE WITH RENEWABLE SEATS AND DISCS. SEATS AND DISCS FOR PLUG TYPE VALVES SHALL BE OF APPROVED TYPE METAL ALLOY.

G. PROVIDE BALANCING VALVES, AS INDICATED ON THE DRAWINGS, EQUAL TO TACO CIRCUIT SETTER SHUT-OFF AND BALANCE VALVE. FURNISH ACCESS PANELS FOR ALL CONCEALED BALANCING VALVES AND FLOW METERS EXCEPT WHERE READILY ACCESSIBLE THROUGH REMOVABLE CEILING TILES. BALANCING VALVES OVER 2" SHALL BE FLANGED; 2" AND UNDER SHALL BE SCREWED.

2.19 GAS PIPING:

A. GAS PIPING SHALL BE SCHEDULE 40 CARBON STEEL ASTM A53 GRADE B, A106 GRADE A OR A120

B. ENTIRE GAS PIPING INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL FIRE CODE 54 AND REGULATIONS OF THE PROVIDENCE GAS COMPANY. ALL GAS PIPING SHALL BE BRACED FOR SEISMIC CONDITIONS AS REQUIRED BY BUILDING CODE.

C. GAS VALVES SHALL BE GAS SERVICE USE PLUG/GAS COCK OR BALL VALVE, BOTTOM LOADED LOW PRESSURE STEM VALVE, RATED AT 600 PSI WOG, WATTS B-6000 OR EQUAL.

D. GAS METER AND PIPING TO METER FROM GAS MAIN WILL BE PROVIDED BY GAS COMPANY. PAY CHARGES ASSOCIATED WITH GAS COMPANY INSTALLATION. GAS PIPING PROVIDED UNDER THIS SECTION NOT BY GAS COMPANY SHALL BEGIN AT BUILDING SIDE OF GAS METER. PIPING SHALL BE DONE BY LICENSED GAS FITTER (AS REQUIRED BY CODE).

E. GAS PIPING SHALL PITCH TO DRAIN AND SHALL HAVE DRIP POCKETS AT LEAST 6" LONG WITH REMOVABLE CAPS AT LOW POINTS. BRANCH CONNECTIONS SHALL BE TAKEN FROM TOP OR SIDE OF HORIZONTAL RUNNING MAIN. PROVIDE GAS COCK OR VALVE ON CONNECTIONS TO FIXTURES OR EQUIPMENT. PROVIDE UNION CONNECTION BETWEEN SHUTOFF COCK AND EQUIPMENT TO PERMIT DISCONNECTION OR EQUIPMENT.

F. PROVIDE PRESSURE-REDUCING VALVE BETWEEN METER AND BUILDING PIPING, AS REQUIRED BY GAS COMPANY, PIPED AND VENTED TO OUTSIDE OF BUILDING. PROVIDE INDIVIDUAL VENTS FROM REGULATORS, PRESSURE SWITCHES AND RELIEFS ON FACTORY PACKAGED EQUIPMENT GAS TRAINS AT ALL EQUIPMENT LOCATED ON THIS SYSTEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXTEND ALL VENTS TO ATMOSPHERE TERMINAL AT A SAFE LOCATION IN CONJUNCTION WITH THE FUEL GAS CODE. GAS PIPING AND SAFETY DEVICES SHALL MEET REQUIREMENTS OF NFPA NO. 54 AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF STATE GAS REGULATORY BOARD. PROVIDE A GAS COCK VALVE AT EACH BRANCH RUNOUT FROM MAIN OR RISER SERVING GAS OUTLETS AND HOUSE SIDE OF GAS METER.

G. PIPING SHALL BE SEISMICLY RESTRAINT AND SECURELY FASTENED, SEPARATELY HUNG AND SHALL NOT SUPPORT ANY OTHER WEIGHT OR PIPING. PIPING DROPPING ON CONCRETE BLOCK WALLS SHALL BE FACTORY WRAPPED FOR CORROSION PROTECTION.

H. SEISMIC RESTRAINTS SHALL BE DESIGNED IN ACCORDANCE WITH SEISMIC FORCE LEVELS AS DETAILED IN THE STATE BUILDING CODES. ALL SUCH SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH SEISMIC CODES, COMPONENT MANUFACTURERS' AND BUILDING CONSTRUCTION STANDARDS. WHENEVER A CONFLICT OCCURS BETWEEN THE MANUFACTURERS' OR CONSTRUCTION STANDARDS, THE MOST STRINGENT SHALL APPLY. ALL SEISMIC RESTRAINT SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL SEISMIC RESTRAINTS DESCRIBED IN THIS SECTION SHALL BE BY MASON INDUSTRY'S.

I. GAS VALVES OR COCKS SHALL NOT BE CONCEALED AND SHALL BE READILY ACCESSIBLE FOR INSPECTION AND REPAIR. ALL EXTERIOR GAS PIPING SHALL BE PAINTED WITH 2 COATS OF EPOXY-BASED YELLOW PAINT.

J. BEFORE EQUIPMENT IS CONNECTED, PROVE ENTIRE SYSTEM TO BE GAS TIGHT BY SOAP BUBBLE AND AIR TEST AT 45 PSIG AND PER NFPA 54. CORRECT ALL LEAKS.

2.20 GAS BOILERS

A. PROVIDE GAS-FIRED BOILERS AS MANUFACTURED BY THE VIESSMANN VITODENS CO. PERFORMANCE & ACCESSORIES TO BE AS SCHEDULED ON PLANS.

B. EACH BOILER SHALL BE DESIGNED FOR OPERATION WITH NATURAL GAS SUPPLIED TO THE BOILER AT 4.0"W.C. AND A MANIFOLD GAS PRESSURE OF 2.5"W.C. EACH BOILER SHALL BE AGA CERTIFIED FOR THE INPUT RATING AS SPECIFIED WITH A STEADY STATE THERMAL EFFICIENCY OF 85%, USING NATURAL GAS. EACH BOILER SHALL BE CONSTRUCTED AND STAMPED IN ACCORDANCE WITH SECTION IV OF THE ASME CODE FOR LOW PRESSURE HEATING BOILERS FOR A MAXIMUM WORKING PRESSURE OF 160 PSIG AND SHALL HAVE A NATIONAL BOARD REGISTRATION WITH ASME DATA REPORTS PROVIDED TO THE OWNER. EACH BOILER SHALL BE INSTALLED AND COMPLY WITH RI STATE BOILER CODE.

C. EACH BOILER SHALL HAVE THE FOLLOWING COMPONENTS, COMPLETELY FACTORY ASSEMBLED AND TEST FIRED FOR A MINIMUM OF ONE HOUR.

1. BOILERS SHALL BE AGA DESIGN-CERTIFIED FOR AN INPUT AS SCHEDULED ON THE DRAWINGS AND RELEASE NO CONDENSATE DURING OPERATION. TUBES SHALL BE 7/8"ID FINNED COPPER, ROLLED INTO TOP AND BOTTOM STEEL WELDED COLLECTORS. TUBES SHALL BE STRAIGHT WITHOUT BENDS AND SHALL INTERMESH FOR THE MAXIMUM HEAT TRANSFER. THE FREE FLOW OF EXHAUST GAS SHALL NOT BE RESTRICTED THROUGH THE HEAT EXCHANGER BY THE USE OF RODS OR "V" BAFFLES BETWEEN THE FINNED TUBES. THE HEAT EXCHANGER SHALL BE GUARANTEED FOR TEN (10) YEARS AGAINST FAILURE DUE TO DEFECTS IN WORKMANSHIP, MATERIALS AND THERMAL SHOCK.

2. THE GAS BURNER SHALL BE STEEL, RADIAL-FIRED, FAN ASSISTED TYPE AND SHALL UTILIZE A SCREEN-TYPE DIFFUSER TO PROVIDE A FULL 360 DEGREES FLAME PATTERN. THE FUEL MIXTURE SHALL BE CONTROLLED BY MULTIPLE CALIBRATED BRASS ORIFICES AND A VENTURI CORE EQUIPPED TO MEASURE AIR FLOW RATE TO THE BURNER. EACH BOILER CONTROL SYSTEM SHALL BE WIRED FOR 120V/1P/60H POWER SUPPLY FOR 12 AMPS RUNNING.

3. EACH BOILER SHALL BE EQUIPPED WITH AN OPERATING THERMOSTAT, MANUAL RESET HIGH-LIMIT AQUASTAT, DIFFERENTIAL AIR PRESSURE SWITCH, LOW AND HIGH GAS PRESSURE SWITCHES WITH MANUAL RESET, VENT VALVE, ELECTRIC SPARK IGNITION AS REQUIRED BY IRI-IM.4.1.1, ANNUNCIATING CONTROL PANEL WITH VISIBLE INDICATION OF CONTROL SEQUENCE AND SAFETY LOCKOUTS, AGA APPROVED LUBRICATED MANUAL PLUG COCK, GAS PRESSURE REGULATOR, TWO SEPARATE MOTOR DRIVEN GAS VALVES, PILOT GAS COCK, PILOT GAS PRESSURE REGULATOR, AND PILOT SOLENOID VALVE. CSD-1 APPROVED CONTROLS SHALL BE PROVIDED AND THE GAS TRAIN SHALL MEET IRI-IM.4.1.1 DATED MARCH 1, 1993, INTERPRETATION OF NFPA 8501.

4. THE ENTIRE GAS MANIFOLD SHALL BE MOUNTED EXTERNAL OF ANY CABINET OR SHEET METAL TO PROVIDE EASE OF ACCESS FOR SERVICING, ADJUSTMENT AND VENTING OF THE GAS REGULATOR AND GAS PRESSURE SWITCH. THE COMBUSTION CHAMBER SHALL BE A MINIMUM 16 GAUGE THICKNESS AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT ALUMINUM. THE OUTER CABINET ENCLOSURE SHALL BE A MINIMUM 16 GAUGE STEEL, WITH AN INSULATING AIR SPACE BETWEEN THE COMBUSTION CHAMBER AND THE CABINET. THE OUTER CABINET SHALL BE EQUIPPED WITH A HEAT-RESISTANT GLASS PORT FOR OBSERVATION OF THE BURNER OPERATION. NO REFRACTORY OR BLANKET TYPE INSULATION SHALL BE USED AND THE METAL SURFACE TEMPERATURE SHALL NOT EXCEED 25 DEGREES F ABOVE ROOM AMBIENT.

5. EACH BOILER SHALL BE FULLY FACTORY FIRE-TESTED PRIOR TO SHIPMENT FOR A PERIOD OF NOT LESS THAN ONE HOUR. THE MANUFACTURER SHALL SUPPLY COPIES OF THE FIRE TEST REPORT WHICH SHALL INCLUDE:

a. GAS INLET PRESSURE TO BOILER,

b. GAS MANIFOLD PRESSURE,

c. C.F.H. GAS FLOW,

d. CABINET AIR PRESSURE,

e. PERCENT OXYGEN,

f. P.P.M. CARBON MONOXIDE,

g. PERCENT CARBON DIOXIDE

h. NET STACK TEMPERATURE.

i. PPM NITROUS OXIDE.

6. THE FACTORY TEST FOR CARBON MONOXIDE SHALL NOT EXCEED 200 P.P.M. AS REQUIRED BY AGA CERTIFICATION. THE MANUFACTURER SHALL CERTIFY THE BOILER EXHAUST WILL CONTAIN NOT MORE THAN 20 PPM OF NITROUS OXIDE (NOX).

7. EACH BOILER SHALL BE AGA CERTIFIED FOR CATEGORY I EXHAUST VENTING, TO ALLOW USE OF DOUBLE WALL TYPE "B" VENT PIPE. BOILER SHALL BE AGA CERTIFIED FOR INSTALLATION ON COMBUSTIBLE FLOORS WITHOUT ANY ADDITIONAL PARTS OR MODIFICATIONS.

8. EACH BOILER SHALL BE SUPPLIED WITH A DOUBLE-ACTING BAROMETRIC DAMPER FOR INSTALLATION PER THE MANUFACTURERS' RECOMMENDATION.

D. THE MANUFACTURER SHALL FURNISH FOUR COMPLETE SETS OF INSTALLATION AND OPERATING INSTRUCTIONS IN BOOKLET FORM.

E. THIS CONTRACTOR SHALL PROVIDE VENTING OF THE GAS PRESSURE REGULATOR DIAPHRAGM HOUSING, GAS PRESSURE SWITCHES FURNISHED AND GAS VENT VALVE ON THE PACKAGE TO THE OUTSIDE OF THE BUILDING IN ACCORDANCE WITH STATE CODES AND REGULATIONS OF THE GAS UTILITY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120 VOLT, SINGLE PHASE POWER TO EACH BOILER.

F. EACH BOILER SHALL BE STARTED-UP BY A FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE WITH AN INSTRUMENT RECORDING AND PRINT-OUT OF EXHAUST GAS COMPOSITION INCLUDING CARBON DIOXIDE, CARBON MONOXIDE, % EXCESS AIR, OXYGEN, NET STACK TEMPERATURE AND COMBUSTION EFFICIENCY. THESE CONDITIONS SHALL MATCH THOSE OBTAINED DURING THE FACTORY FIRE-TESTING AS IS INDICATED ON THE BOILER DECAL. A COPY OF THE START-UP TEST REPORT SHALL BE FILED WITH THE ENGINEER AND OWNER. CARBON MONOXIDE SHALL NOT EXCEED 200 P.P.M. AS REQUIRED BY AGA.

G. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS SHIPPED WITH THE EQUIPMENT AND/OR CONTAINED IN THE INSTALLATION BROCHURES AND SUBMITTAL DATA. ALL INSTALLATION SHEETS SHALL BE SAVED AND MADE AVAILABLE TO THE ENGINEER AND OWNER FOR INSPECTION PURPOSES. AT THE END OF THE JOB, INCLUDE THESE SHEETS IN ONE OF THE MAINTENANCE MANUALS MARKED "MASTER".

H. INSTALL ALL ACCESSORIES SHIPPED WITH THE EQUIPMENT IN LIKE MANNER AS ABOVE. PROVIDE ALL NECESSARY INCIDENTALS REQUIRED FOR PROPER INSTALLATION AND AS MAY BE REQUIRED BY THE MANUFACTURER FOR THEIR GUARANTEES.

I. EACH BOILER SHALL BE PROVIDED WITH ONE (1) YEAR OF SERVICE AND PARTS FROM DATE OF START-UP BY THE MANUFACTURER'S AREA REPRESENTATIVE.

2.21 CEILING TYPE DUCTLESS SPLIT AIR CONDITIONER SYSTEM:

A. PROVIDE DUCTLESS SPLIT AIR CONDITIONER MANUFACTURED BY MITSUBISHI OR ENGINEER APPROVED EQUAL (PROVIDED THAT ALL SPECIFICATIONS ARE MET). PERFORMANCE & ACCESSORIES TO BE AS SCHEDULED ON PLANS.

B. GENERAL: UNIT SHALL BE PER ARI STANDARDS 210/240. UNITS SHALL BE CERTIFIED BY UL AND CSA. UNITS SHALL BE STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS. WARRANTY SHALL BE ONE-YEAR PARTS, 5-YEAR COMPRESSOR LIMITED WARRANTY.

C. UNIT SHALL BE SHIPPED COMPLETE WITH COOLING COIL, FAN, FAN MOTOR, PIPING CONNECTORS, ELECTRICAL CONTROLS, CONDENSATE PUMP, AND HANGING BRACKETS.

D. CABINET SHALL BE CONSTRUCTED OF ZINC-COATED STEEL. FULLY INSULATED DISCHARGE AND INLET GRILLES SHALL BE ATTRACTIVELY STYLED, HIGH-IMPACT POLYSTYRENE. CABINET SHALL HAVE FILTER TRACKS AND CLEANABLE FILTERS WHICH SHALL BE ACCESSIBLE FROM BELOW WITH A 1/4-TURN FASTENER. ADJACENT ROOM COOLING TO BE PROVIDED BY A SIMPLE KNOCK-OUT IN THE CABINET SIDE PANEL, AND CABINET SHALL HAVE PROVISIONS TO ACCOMMODATE A LIMITED AMOUNT OF DUCT-WORK, IF DESIRED.

E. FAN SHALL BE CENTRIFUGAL, DIRECT-DRIVE BLOWER TYPE WITH AIR INTAKE IN CENTER OF THE UNIT AND DISCHARGE ON THE PERIMETER. AIR LOUVERS SHALL BE ADJUSTABLE FOR 2, 3, OR 4-WAY DISCHARGE.

F. COIL SHALL BE COPPER TUBE WITH ALUMINUM FINS AND GALVANIZED STEEL TUBE SHEETS. FINS SHALL BE BONDED TO THE TUBES BY MECHANICAL EXPANSION. A DRIP PAN UNDER THE COIL SHALL HAVE A FACTORY-INSTALLED CONDENSATE PUMP AND DRAIN CONNECTION FOR HOSE ATTACHMENT TO REMOVE CONDENSATE.

G. THE UNIT SHALL HAVE A REFRIGERANT METERING PISTON AND BODY.

H. MOTORS SHALL BE TOTALLY ENCLOSED AND PERMANENTLY LUBRICATED BALL BEARING WITH INHERENT OVERLOAD PROTECTION. FAN MOTOR SHALL BE 3-SPEED.

I. CONTROLS SHALL BE 24 VOLTS, AND SHALL BE EASILY OPERATED BY THE USER FROM A WALL-MOUNTED CONTROL UNIT. FLOAT CONTROL SHALL BE IN THE CONDENSATE SUMP TO SHUT UNIT DOWN IN CASE OF PUMP MALFUNCTION. A WALL-MOUNTED ELECTRO-MECHANICAL THERMOSTAT WITH 3 FAN SPEED SELECTIONS, AND AN AUTO./MANUAL SWITCH SHALL BE SUPPLIED FOR FIELD INSTALLATION. THE R-22 REFRIGERANT IS CONTROLLED WITH A PISTON-TYPE REFRIGERANT METERING DEVICE, AND EVAPORATOR COIL FREEZE PROTECTION SHALL BE PROVIDED.

J. UNIT SHALL HAVE FILTER TRACK WITH FACTORY-SUPPLIED CLEANABLE FILTERS.

K. UNIT SHALL OPERATE ON 208 V OR 230 V 60 HZ POWER SUPPLY AS SPECIFIED ON THE EQUIPMENT SCHEDULE. POWER AND CONTROL CONNECTIONS SHALL HAVE TERMINAL BLOCK CONNECTIONS.

L. SPECIAL FEATURES (FIELD INSTALLED):

1. FRESH AIR INTAKE KIT: KIT SHALL INCLUDE FILTER AND DUCT CONNECTIONS TO PROVIDE FOR OUTDOOR VENTILATION AIR.

2. ELECTRONIC PROGRAMMABLE THERMOSTAT: THERMOSTAT SHALL BE COMMERCIAL GRADE AND SHALL PROVIDE 7-DAY, 4-EVENT SCHEDULING. INTEGRAL SUB-BASE SHALL BE INCLUDED. THERMOSTAT SHALL ALSO PROVIDE 3-SPEED FAN SWITCHOVER CAPABILITY, AIR SWEEP AUTO CHANGEOVER, AND SHALL NOT REQUIRE A BATTERY TO RETAIN MEMORY.

M. INSTALL UNITS IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

2.30 ENERGY RECOVERY VENTILATOR:

A. PROVIDE ENERGY RECOVERY VENTILATOR MANUFACTURED BY GREENHECK OR ENGINEER APPROVED EQUAL BY AAON OR ADDISON (PROVIDED THAT ALL SPECIFICATIONS ARE MET). PERFORMANCE & ACCESSORIES TO BE AS SCHEDULED ON PLANS.

B. UNITS SHALL BE LISTED PER UL1995 AND BEAR THE UL LABEL. ENERGY TRANSFER RATINGS OF THE ENERGY RECOVERY WHEEL SHALL BE ARI CERTIFIED. PERFORMANCE SHALL BE AS SCHEDULED ON PLANS. EXHAUST DISCHARGE AND OUTSIDE AIR INTAKE SHALL NOT BE LOCATED ON THE SAME SIDE.

2.31 GAS ROOFTOP UNITS

A. PROVIDE ROOF TOP UNIT MANUFACTURED BY BRYANT/CARRIER OR ENGINEER APPROVED EQUAL BY AAON OR TRANE (PROVIDED THAT ALL SPECIFICATIONS ARE MET). PERFORMANCE & ACCESSORIES TO BE AS SCHEDULED ON PLANS.

B. GENERAL: UNITS SHALL BE CONVERTIBLE AIRFLOW. OPERATING RANGE SHALL BE BETWEEN 115°F AND 0°F COOLING AS STANDARD FROM THE FACTORY FOR UNITS WITH MICROPROCESSOR CONTROLS. COOLING PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH DOE AND/OR ARI TESTING PROCEDURES. ALL UNITS SHALL BE FACTORY ASSEMBLED, INTERNALLY WIRED, FULLY CHARGED WITH R-410A, AND 100 PERCENT RUN-TESTED BEFORE LEAVING THE FACTORY. WIRING INTERNAL TO THE UNIT SHALL BE COLORED AND NUMBERED FOR SIMPLIFIED IDENTIFICATION. UNITS SHALL BE UL LISTED AND LABELED, CLASSIFIED IN ACCORDANCE TO ANSIZ21,47 FOR GAS FIRED CENTRAL FURNACES AND UL 1995/CAN/CSA NO. 236-M90 FOR CENTRAL COOLING AIR CONDITIONERS.

C. CASING: UNIT CASING SHALL BE CONSTRUCTED OF ZINC COATED, HEAVY GAUGE, GALVANIZED STEEL. EXTERIOR SURFACES SHALL BE CLEANED, PHOSPHATIZED, AND FINISHED WITH WEATHER-RESISTANT BAKED ENAMEL FINISH. UNIT SURFACE SHALL BE TESTED 1000 HOURS IN A SALT SPRAY TEST IN COMPLIANCE WITH ASTM B117. CABINET CONSTRUCTION SHALL ALLOW FOR ALL MAINTENANCE ON ONE SIDE OF THE UNIT. ALL EXPOSED VERTICAL PANELS AND TOP COVERS IN THE INDOOR AIR SECTION SHALL BE INSULATED WITH A CLEANABLE FOIL FACED, FIRE-RETARDANT PERMANENT, AND ODORLESS GLASS FIBER MATERIAL. THE BASE OF THE UNIT SHALL BE INSTALLED WITH ½ INCH HIGH DOWNFLOW SUPPLY/RETURN OPENINGS TO PROVIDE AN ADDED WATER INTEGRITY PRECAUTION, IF THE CONDENSATE DRAIN BACKS UP. THE BASE OF THE UNIT SHALL HAVE PROVISIONS FOR FORKLIFT AND CRANE LIFTING, WITH FORKLIFT CAPABILITIES ON THREE SIDES.

D. UNIT TOP: THE TOP COVER SHALL BE ONE PIECE CONSTRUCTION OR, WHERE SEAMS EXIST, IT SHALL BE DOUBLE-HEMMED AND GASKET-SEALED. THE RIBBED TOP ADDS EXTRA STRENGTH AND PREVENTS WATER FROM POOLING ON UNIT TOP.

E. FILTERS: PROVIDE TWO SETS OF TWO INCH FILTERS.

F. COMPRESSORS: UNITS SHALL HAVE DIRECT-DRIVE, HERMETIC, SCROLL TYPE COMPRESSORS WITH CENTRIFUGAL TYPE OIL PUMPS. MOTOR SHALL BE SUCTION GAS-COOLED AND SHALL HAVE A VOLTAGE UTILIZATION RANGE OF PLUS OR MINUS 10 PERCENT OF UNIT NAMEPLATE VOLTAGE. INTERNAL OVERLOADS SHALL BE PROVIDED WITH THE SCROLL COMPRESSORS. PROVIDE 5 YEAR COMPRESSOR WARRANTEE.

G. REFRIGERANT CIRCUITS: EACH REFRIGERANT CIRCUIT SHALL HAVE INDEPENDENT THERMAL EXPANSION VALVE. SERVICE PRESSURE PORTS, AND REFRIGERANT LINE FILTER DRIERS SHALL BE FACTORY-INSTALLED AS STANDARD. AN AREA SHALL BE PROVIDED FOR REPLACEMENT SUCTION LINE DRIERS.

H. EVAPORATOR AND CONDENSER COILS: INTERNALLY FINNED, 5/16" COPPER TUBES MECHANICALLY BONDED TO A CONFIGURED ALUMINUM PLATE FIN SHALL BE STANDARD. COILS SHALL BE LEAK TESTED AT THE FACTORY TO ENSURE PRESSURE INTEGRITY. THE EVAPORATOR COIL AND CONDENSER COIL SHALL BE LEAK TESTED TO 200 PSIG. THE CONDENSATE COIL SHALL HAVE A PATENT PENDING 1 + 1 + 1 HYBRID DESIGN WITH SLIGHT GAPS FOR EASE OF CLEANING. A REMOVABLE, REVERSIBLE, DOUBLE-SLOPED CONDENSATE DRAIN PAN SHALL BE STANDARD. PROVISION FOR THROUGH THE BASE CONDENSATE DRAIN SHALL STANDARD.

I. GAS HEATING SECTION: THE HEATING SECTION SHALL HAVE A PROGRESSIVE TUBULAR HEAT EXCHANGER DESIGN USING STAINLESS STEEL BURNERS AND CORROSION RESISTANT STEEL THROUGHOUT. AN INDUCED DRAFT COMBUSTION BLOWER SHALL BE USED TO PULL THE COMBUSTION PRODUCTS THROUGH THE FIRING TUBES. THE HEATER SHALL USE DIRECT SPARK IGNITION (DSI) SYSTEM. ON INITIAL CALL FOR HEAT, THE COMBUSTION BLOWER SHALL PURGE THE HEAT EXCHANGER FOR 20 SECONDS BEFORE IGNITION AFTER THREE UNSUCCESSFUL IGNITION ATTEMPTS; THE ENTIRE HEATING SYSTEM SHALL BE LOCKED OUT UNTIL MANUALLY RESET AT THE THERMOSTAT/ZONE SENSOR. UNITS SHALL BE SUITABLE FOR USE WITH NATURAL GAS.

J. OUTDOOR FANS: THE OUTDOOR FANS SHALL BE DIRECT-DRIVE, STATICALLY AND DYNAMICALLY BALANCED, DRAW-THROUGH IN THE VERTICAL DISCHARGE POSITION. THE FAN MOTOR SHALL BE PERMANENTLY LUBRICATED AND SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION.

K. INDOOR FAN: UNITS SHALL HAVE BELT DRIVE MOTORS. UNITS SHALL HAVE AN ADJUSTABLE IDLER-ARM ASSEMBLY FOR QUICK-ADJUSTMENT TO FAN BELTS AND MOTOR SHEAVES. ALL MOTORS SHALL BE THERMALLY PROTECTED. ALL INDOOR FAN MOTORS MEET THE U.S. ENERGY POLICY ACT OF 1992 (EPACT).

L. ROOF CURBS: ROOF CURBS SHALL BE CONSTRUCTED OF GALVANIZED STEEL. CURBS ARE TO BE FULLY GASKETED BETWEEN THE CURB TOP AND UNIT BOTTOM WITH THE CURB PROVIDING FULL PERIMETER SUPPORT, CROSS STRUCTURE SUPPORT AND AIR SEAL FOR THE UNIT. UNITS SHALL BE MOUNTED ON A FACTORY FURNISHED VIBRATION SEISMIC RATED CURB MANUFACTURED BY MASON INDUSTRIES OR NOVIA ASSOCIATES.

M. INSTALL ROOF TOP UNIT IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

Certification

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MECHANICAL SPECIFICATIONS

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2.34 AIR HANDLING UNITS - VERTICAL AND LOW PROFILE FAN COIL UNITS

A. PROVIDE UNITS MANUFACTURED BY AIRTHERM. PERFORMANCE & ACCESSORIES TO BE AS SCHEDULED ON PLANS.

B. VERTICAL FAN COIL UNITS SHALL BE FACTORY ASSEMBLED AND CONSIST OF FANS, MOTOR AND DRIVE ASSEMBLY, COILS, FILTERS, STAINLESS-STEEL CONDENSATE PANS AND ACCESSORIES.

C. THE CABINET SHALL BE FORMED DOUBLE-WALL INSULATED PANELS, FABRICATED TO ALLOW REMOVAL FOR ACCESS TO INTERNAL PARTS AND COMPONENTS, WITH JOINTS BETWEEN SECTIONS GASKETED.

D. OUTSIDE CASING SHALL BE 18 GAUGE, GALVANIZED STEEL AND THE INSIDE CASING SHALL BE 18 GAUGE GALVANIZED STEEL.

E. UTILITY LUGS SHALL BE PROVIDED FOR LIFTING UNIT AND FASTENING TO PERMANENT STRUCTURE CONSTRUCTED OF 8 GAUGE, GALVANIZED STEEL.

F. INSULATION

1. CABINET INSULATION SHALL COMPLY WITH NFPA 90A OR NFPA 90B.

2. MATERIAL SHALL BE 1" THICK, 3 POUND DENSITY FIBER GLASS INSULATION WITH THERMAL CONDUCTIVITY (K-VALUE) EQUAL TO 0.26 AT 75 DEG F (0.037 AT 24 DEG C) MEAN TEMPERATURE.

3. FIRE-HAZARD CLASSIFICATION: MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50, WHEN TESTED ACCORDING TO ASTM C 411.

4. LOCATION AND APPLICATION: ENCASED BETWEEN OUTSIDE AND INSIDE CASING.

G. CONDENSATE DRAIN PANS:

1. FORMED SECTIONS OF STAINLESS-STEEL SHEET COMPLYING WITH REQUIREMENTS IN ASHRAE 62.

2. FABRICATE PANS WITH SLOPES IN TWO PLANES TO COLLECT CONDENSATE FROM COOLING COILS (INCLUDING COIL PIPING CONNECTIONS AND RETURN BENDS) WHEN UNITS ARE OPERATING AT MAXIMUM CATALOGUED FACE VELOCITY ACROSS COOLING COIL.

H. FAN SECTION

1. BELT-DRIVEN CENTRIFUGAL FANS CONSISTING OF HOUSING, WHEEL, FAN SHAFT, BEARINGS, MOTOR DRIVE ASSEMBLY, AND SUPPORT STRUCTURE AND EQUIPPED WITH FORMED-STEEL CHANNEL BASE FOR INTEGRAL MOUNTING OF FAN, MOTOR, AND CASING PANELS.

2. MOUNT FAN WITH INTERIOR SPRING VIBRATION ISOLATION.

3. FAN ASSEMBLIES SHALL BE STATICALLY AND DYNAMICALLY BALANCED AND DESIGNED FOR CONTINUOUS OPERATION AT MAXIMUM RATED FAN SPEED AND MOTOR HORSEPOWER.

4. FORWARD-CURVED FAN WHEELS SHALL BE GALVANIZED-STEEL AND/OR ALUMINUM/PAINTED STEEL CONSTRUCTION WITH INLET FLANGE, BACKPLATE, AND SHALLOW BLADES WITH INLET AND TIP CURVED FORWARD IN DIRECTION OF AIRFLOW AND MECHANICALLY SECURED TO FLANGE AND BACKPLATE; CAST-STEEL HUB SWAGED TO BACKPLATE AND FASTENED TO SHAFT WITH SET SCREWS.

I. COIL SECTIONS SHALL BE COMMON OR INDIVIDUAL, INSULATED, GALVANIZED-STEEL CASINGS FOR HEATING AND COOLING COILS. DESIGN AND CONSTRUCT TO FACILITATE REMOVAL AND REPLACEMENT OF COIL FOR MAINTENANCE AND TO ENSURE FULL AIRFLOW THROUGH COILS.

J. FILTER SECTION: FILTERS SHALL COMPLY WITH NFPA 90A. FILTER SECTION: PROVIDE FILTER HOLDING FRAMES ARRANGED FOR VERTICAL ORIENTATIONS, WITH ACCESS PANELS ON BOTH SIDES OF UNIT. FILTERS SHALL BE REMOVABLE FROM BOTH SIDES.

K. INSTALLATION: PROVIDE ALL REQUIRED ACCESSORIES REQUIRED BY THE MANUFACTURER INSTALLATION MANUALS. INSTALL UNIT IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

2.15 INDOOR FAN COIL UNITS (VRF AND SPLIT SYSTEM):

D. INCLUDE FACTORY SET-UP AND START-UP FOR ALL SYSTEMS.

E. GENERAL:

1. THE INDOOR UNITS SHALL BE FACTORY ASSEMBLED, WIRED AND RUN TESTED. CONTAINED WITHIN THE UNIT SHALL BE ALL FACTORY WIRING, PIPING, ELECTRONIC MODULATING LINEAR EXPANSION DEVICE, CONTROL CIRCUIT BOARD AND FAN MOTOR. THE UNIT SHALL HAVE A SELF-DIAGNOSTIC FUNCTION, 3-MINUTE TIME DELAY MECHANISM, AN AUTO RESTART FUNCTION, AN EMERGENCY OPERATION FUNCTION, A TEST RUN SWITCH, AND THE ABILITY TO ADJUST AIRFLOW PATTERNS FOR DIFFERENT CEILING HEIGHTS. INDOOR UNIT AND REFRIGERANT PIPES SHALL BE CHARGED WITH DEHYDRATED AIR BEFORE SHIPMENT FROM THE FACTORY.

C. FAN:

1. THE INDOOR FAN SHALL BE AN ASSEMBLY WITH ONE OR TWO LINE-FLOW FAN(S) OR A TURB0 FAN DIRECT DRIVEN BY A SINGLE MOTOR.

2. THE INDOOR FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED TO RUN ON A MOTOR WITH PERMANENTLY LUBRICATED BEARINGS.

3. A MANUAL ADJUSTABLE GUIDE VANE SHALL BE PROVIDED WITH THE ABILITY TO CHANGE THE AIRFLOW FROM SIDE TO SIDE (LEFT TO RIGHT). A MOTORIZED AIR SWEEP LOUVER SHALL PROVIDE AN AUTOMATIC CHANGE IN AIRFLOW BY DIRECTING THE AIR UP AND DOWN TO PROVIDE UNIFORM AIR DISTRIBUTION. (WALL MOUNTED UNITS).

4. THE INDOOR FAN SHALL CONSIST OF FIVE (5) SPEED SETTINGS, LOW, MID1, MID2, HIGH AND AUTO. THE FAN SHALL HAVE A SELECTABLE AUTO FAN SETTING THAT WILL ADJUST THE FAN SPEED BASED ON THE DIFFERENCE BETWEEN CONTROLLER SET-POINT AND SPACE TEMPERATURE. THE INDOOR UNIT SHALL HAVE AN ADJUSTABLE AIR OUTLET SYSTEM OFFERING 4-WAY AIRFLOW, 3-WAY AIRFLOW, OR 2-WAY AIRFLOW. THE INDOOR UNIT SHALL HAVE SWITCHES THAT CAN BE SET TO PROVIDE OPTIMUM AIRFLOW BASED ON CEILING HEIGHT AND NUMBER OF OUTLETS USED. THE INDOOR UNIT VANES SHALL HAVE 5 FIXED POSITIONS AND A SWING FEATURE THAT SHALL BE CAPABLE OF AUTOMATICALLY SWINGING THE VANES UP AND DOWN FOR UNIFORM AIR DISTRIBUTION. THE VANES SHALL HAVE AN AUTO-WAVE SELECTABLE OPTION IN THE HEATING MODE THAT SHALL RANDOMLY CYCLE THE VANES UP AND DOWN TO EVENLY HEAT THE SPACE. (CEILING RECESSED UNITS).

A. FILTER: RETURN AIR SHALL BE FILTERED BY MEANS OF AN EASILY REMOVABLE, WASHABLE FILTER.

B. COIL:

1. THE INDOOR COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH SMOOTH PLATE FINS ON COPPER TUBING.

2. THE TUBING SHALL HAVE INNER GROOVES FOR HIGH EFFICIENCY HEAT EXCHANGE.

3. ALL TUBE JOINTS SHALL BE BRAZED WITH PHOS-COPPER OR SILVER ALLOY.

4. THE COILS SHALL BE PRESSURE TESTED AT THE FACTORY.

5. A CONDENSATE PAN AND DRAIN SHALL BE PROVIDED UNDER THE COIL.

6. THE UNIT SHALL BE PROVIDED WITH AN INTEGRAL CONDENSATE LIFT MECHANISM THAT WILL BE ABLE TO RAISE DRAIN WATER 33 INCHES ABOVE THE CONDENSATE PAN. (CEILING RECESSED UNITS ONLY).

7. BOTH REFRIGERANT LINES TO THE INDOOR UNITS SHALL BE INSULATED IN ACCORDANCE WITH THE INSTALLATION MANUAL.

F. CONTROLS:

1. THIS UNIT SHALL USE CONTROLS PROVIDED BY THE EQUIPMENT MANUFACTURER TO PERFORM FUNCTIONS NECESSARY TO OPERATE THE SYSTEM.

2. CONTROL BOARD SHALL INCLUDE CONTACTS FOR CONTROL OF EXTERNAL HEAT SOURCE. EXTERNAL HEAT MAY BE ENERGIZED AS SECOND STAGE WITH 1.8°F - 9.0°F ADJUSTABLE DEADBAND FROM SET POINT.

3. THE UNIT SHALL HAVE A FACTORY BUILT IN RECEIVER FOR WIRELESS REMOTE CONTROL

4. INDOOR UNIT SHALL COMPENSATE FOR THE HIGHER TEMPERATURE SENSED BY THE RETURN AIR SENSOR COMPARED TO THE TEMPERATURE AT LEVEL OF THE OCCUPANT WHEN IN HEAT MODE. DISABLING OF COMPENSATION SHALL BE POSSIBLE FOR INDIVIDUAL UNITS TO ACCOMMODATE INSTANCES WHEN COMPENSATION IS NOT REQUIRED.

5. INDOOR UNIT SHALL INCLUDE NO LESS THAN FOUR (4) DIGITAL INPUTS CAPABLE OF BEING USED FOR CUSTOMIZABLE CONTROL STRATEGIES.

6. INDOOR UNIT SHALL INCLUDE NO LESS THAN THREE (3) DIGITAL OUTPUTS CAPABLE OF BEING USED FOR CUSTOMIZABLE CONTROL STRATEGIES.

2.20 AIR COOLED CONDENSING UNIT:

A. GENERAL: OUTDOOR PAD-MOUNTED, AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONING UNIT SHALL BE SUITABLE FOR GROUND INSTALLATION. UNIT SHALL CONSISTS OF A HERMETIC COMPRESSOR, AN AIR-COOLED COIL, PROPELLER-TYPE CONDENSER FAN, AND A CONTROL BOX. UNIT SHALL DISCHARGE SUPPLY AIR UPWARD AS SHOWN ON CONTRACT DRAWINGS. UNIT SHALL BE USED IN AN R-410a REFRIGERATION CIRCUIT TO MATCH UP TO A PACKAGED COIL UNIT. PROVIDE AND INSTALL CONDENSING UNIT BY TRANE OR ENGINEER APPROVED EQUAL.

B. QUALITY ASSURANCE: UNIT SHALL BE RATED IN ACCORDANCE WITH THE LATEST EDITION OF ARI STANDARD 210. UNIT SHALL BE CERTIFIED FOR CAPACITY AND EFFICIENCY, AND LISTED IN THE LATEST ARI DIRECTORY. UNIT CONSTRUCTION SHALL COMPLY WITH LATEST EDITION OF ANSI/ASHRAE AND WITH NEC. UNIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL STANDARDS AND SHALL CARRY THE UL LABEL OF APPROVAL. UNIT SHALL HAVE C-UL APPROVAL. UNIT CABINET SHALL BE CAPABLE OF WITHSTANDING FEDERAL TEST METHOD STANDARD NO. 141 (METHOD 6061) 500-HR SALT SPRAY TEST. AIR-COOLED CONDENSER COILS SHALL BE LEAK TESTED AT 250 PSIG AND PRESSURE TESTED AT 450 PSIG. UNIT CONSTRUCTED IN ISO9001 APPROVED FACILITY.

C. WARRANTY: PROVIDE A ONE (1) YEAR PARTS AND LABOR WARRANTY FROM OWNER'S DATE OF ACCEPTANCE.

D. EQUIPMENT: FACTORY ASSEMBLED, SINGLE PIECE, AIR-COOLED AIR CONDITIONER UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START-UP.

E. UNIT CABINET: UNIT CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT.

F. FANS: CONDENSER FAN SHALL BE DIRECT-DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD. CONDENSER FAN MOTOR SHALL BE TOTALLY ENCLOSED, 1-PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS. MOTOR SHAFT WILL BE CORROSION RESISTANT. FAN BLADES SHALL BE STATICALLY AND DYNAMICALLY BALANCED. CONDENSER FAN OPENING SHALL BE EQUIPPED WITH PVC-COATED STEEL WIRE SAFETY GUARDS.

G. COMPRESSOR: COMPRESSOR SHALL BE HERMETICALLY SEALED SCROLL TYPE COMPRESSOR AND SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATORS.

H. CONDENSER COIL: CONDENSER COIL SHALL BE AIR COOLED. COIL SHALL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES WHICH ARE THEN CLEANED, DEHYDRATED, AND SEALED.

I. REFRIGERATION COMPONENTS: REFRIGERATION CIRCUIT COMPONENTS SHALL INCLUDE LIQUID-LINE, SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR-LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF REFRIGERANT AND COMPRESSOR OIL. UNIT SHALL BE EQUIPPED WITH FACTORY SUPPLIED HIGH PRESSURE SWITCH, LOW PRESSURE SWITCH, THERMAL EXPANSION VALVE, AND FILTER DRIER.

J. ELECTRICAL REQUIREMENTS: UNIT ELECTRICAL POWER WILL BE SINGLE POINT CONNECTION. CONTROL CIRCUIT WILL BE 24V.

K. SPECIAL FEATURES: REFER TO DRAWING SCHEDULE FOR REQUIRED ACCESSORIES AND ENHANCEMENTS.

L. INSTALLATION: PROVIDE ALL REQUIRED ACCESSORIES REQUIRED BY THE MANUFACTURER INSTALLATION MANUALS. INSTALL UNIT IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

3.01 CONTROLS

A. PROVIDE A NEW OPEN PROTOCOL BACNET CONTROL SYSTEM EQUIVALENT TO SIEMENS. THE SYSTEM CAN BE ANY COMBINATION OF WIRED AND WIRELESS COMPONENTS AT THE BIDDERS' OPTION. THE SYSTEM WILL INCLUDE THE FOLLOWING:

A. NEW WEB-SERVER/CONTROLLER
B. NEW MODULATING CONTROL VALVES AND CONTROLLERS AT EACH FCU AND CONVECTOR (28 TOTAL, ROUGHLY). PROVIDE COOLING LOCK-OUT FOR CONVECTORS.
C.NEW WALL MOUNTED SENSOR WITH ADJUSTMENT FOR EACH FCU AND CONVECTOR (28 TOTAL, ROUGHLY).
D. NEW BOILER INTERFACE WITH READ/WRITE CAPABILITIES.
E. NEW CHILLER INTERFACE WITH READ/WRITE CAPABILITIES.
F. NEW SHIELDED OUTDOOR AIR TEMPERATURE SENSOR.
G. NEW PUMP SYSTEM CONTROLLER FOR 2 LEAD/LAG PUMPS AND 2 BOILER AND CHILLER PUMPS. THIS CONTROLLER TO PROVIDE SEASONAL CHANGEOVER CONTROL IN ADDITION TO PUMP CONTROL, AND MONITORING OF THE CHILLER AND BOILER.
H. GRAPHICS OF THE FLOOR PLANS AND ROOM TEMPERATURES. FAN COIL GRAPHICS BY FLOOR. MECHANICAL ROOM SYSTEM GRAPHICS.

Boiler Systems

3.02 SEQUENCE OF OPERATIONS:

A. BOILER CONTROL

1. THE BOILER SHALL COME EQUIPPED WITH ITS OWN PACKAGE CONTROL SYSTEM AND INTEGRAL PUMPS BY THE BOILER MANUFACTURER. THE BOILER SHALL BE ENABLED/DISABLED BY THE DDC SYSTEM. IF THE BOILER FAILS AS SENSED BY THE COMMON ALARM OUTPUT FROM THE BOILER CONTROL PACKAGE, AN ALARM WILL BE INDICATED AT THE CENTRAL OPERATOR STATION. THIS CONTRACTOR SHALL PROVIDE ALL INTERLOCK WIRING BETWEEN FLOW SWITCHES, PUMPS, AND BOILER MANUFACTURER. THIS CONTRACTOR SHALL ADDITIONALLY MOUNT AND WIRE THE BOILER MANUFACTURERS PROVIDED OUTSIDE AIR COMPENSATION TEMPERATURE CONTROL PACKAGE (140° SWT TO 200° SWT).
2. COMPENSATED WATER VALVE SHALL MODULATE TO MAINTAIN SYSTEM 80° WATER AT 60° OUTSIDE AIR TEMPERATURE AND 180° WATER AT 35° OUTSIDE AIR TEMPERATURE.

B PUMPS

1. P-1 & P-2 (SECONDARY CHILLED/HOT WATER PUMPS). PUMPS SHALL RUN IN LEAD LAG FASHION WITH THE LEAD PUMP CHANGING AUTOMATICALLY EVERY 336 HOURS. IF THE LEAD PUMP FAILS, THE LAG PUMP SHALL START AND AN ALARM CONDITION SHALL BE ENABLED AT THE BMS.
2. P-3 (PRIMARY CHILLED WATER LOOP CONSTANT FLOW) SHALL BE ENABLED TO RUN BASED ON OAT ABOVE 58° (ADJUSTABLE).
3. P-3 (PRIMARY HOT WATER LOOP CONSTANT FLOW) SHALL BE ENABLED TO RUN BASED ON OAT BELOW 58° (ADJUSTABLE).

C. HEATING/COOLING CHANGEOVER

1. WHEN THE OUTDOOR AIR TEMPERATURE RISES AND REMAINS ABOVE 60°F FOR ONE HOUR (ADJ) & THE HEATING RESET WATER SUPPLY TEMPERATURE IS 90°F OR BELOW THE BOILER SHALL BE DISABLED.
2. WHEN FLOW IS PROVED AT THE CHILLER, THE CHILLER CIRCUIT SHALL BE ENABLED AND SHALL STAGE THE COMPRESSORS TO MAINTAIN A CONSTANT 45°F CHILLED WATER SUPPLY TEMPERATURE.
3. WHEN THE OUTDOOR AIR TEMPERATURE FALLS AND REMAIN BELOW 59°F FOR 2 HOURS (ADJ) THE CHILLER CIRCUIT SHALL BE DISABLED.
4. WHEN FLOW IS PROVED AT THE BOILER, THE BOILER SHALL STAGE AS REQUIRED TO MAINTAIN THE SCHEDULED SUPPLY WATER TEMPERATURE.

D. AIR COOLED CONDENSING UNIT/REMOTE EVAPORATOR

1. DURING OCCUPIED HOURS, THE SYSTEM SHALL ENTER COOLING MODE WHEN THE OUTSIDE TEMPERATURE RISES AN ADJUSTABLE SET POINT, INITIALLY 65°F, FOR AN ADJUSTABLE ONE-HOUR PERIOD. THE SYSTEM WILL LEAVE COOLING MODE WHEN THE OUTSIDE TEMPERATURE DROPS BELOW THIS SET POINT MINUS AN ADJUSTABLE 2°F DIFFERENTIAL FOR A ONE-HOUR PERIOD.
2. UPON ENTERING COOLING MODE THE BUILDING LOOP PUMP & THE CHILLER LOOP PUMP SHALL START. DETECTION OF A FAILURE OF THE PUMP SHALL GENERATE AN ALARM AND SHUT DOWN THE CHILLER. UPON PROOF OF WATER FLOW THROUGH THE CHILLER (BY BOTH FLOW SWITCH AND DIFFERENTIAL PRESSURE CONTROLLER) THE CHILLER WILL BE ENABLED TO START. AT ANY TIME IF A LOSS OF CHILLED WATER FLOW IS DETECTED THE SYSTEM SHALL BE IMMEDIATELY SHUT DOWN UNTIL A STABLE CHILLED WATER FLOW HAS RESUMED.
3. THE CONTROL SYSTEM SHALL CONTROL CHILLED WATER TEMPERATURE BY SIGNALING THE AIR COOLED CONDENSING UNITS FACTORY CONTROLS, ALLOWING THE CHILLER TO CYCLE ITS OWN COMPRESSORS OR LOAD/UNLOAD AS NEEDED TO MAINTAIN SET POINT. THE THREE WAY VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN A MAXIMUM RETURN WATER TEMPERATURE OF 60°F.
4. AN ALARM WILL BE GENERATED IF A FAILURE IS DETECTED, OR IF THE CHILLED WATER SUPPLY TEMPERATURE DOES NOT FALL BELOW 60°F (ADJUSTABLE) IN THE FIRST HOUR, OR RISE ABOVE 60°F (ADJUSTABLE) AT ANY TIME THEREAFTER.
5. CHILLER SHALL BE PREVENTED FROM STARTING UNTIL THE BUILDING LOOP TEMPERATURE IS AT OR BELOW 85°F.

E. OUTSIDE AIR SENSING

1. PROVIDE AN OUTSIDE AIR TEMPERATURE SENSOR TO INDEX THE HEATING//COOLING MODE AND TO PROVIDE SENSOR FOR COMPENSATED WATER.

Hydronic Terminal Units

A. FAN COIL UNIT:

1. THE SUPPLY FAN SHALL RUN CONTINUOUSLY WHEN COMMANDED TO THE OCCUPIED MODE. THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT 72°F. (ADJ.)

Air System

A. ROOF TOP UNIT:

1. OCCUPIED HEATING: THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AND RETURN AIR DAMPERS SHALL OPEN TO THE SET POSITION. THE SPACE THERMOSTAT SHALL STAGE THE GAS FURNACE AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE COOLING CIRCUIT SHALL BE DE-ENERGIZED.

2. UNOCCUPIED HEATING: THE OUTSIDE AIR DAMPER SHALL CLOSE, AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN. THE SUPPLY FAN AND GAS FURNACE SHALL CYCLE AS REQUIRED TO MAINTAIN THE NIGHT SETBACK TEMPERATURE SET POINT. THE COOLING CIRCUIT SHALL BE DE-ENERGIZED.

3. OCCUPIED COOLING: THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AND RETURN AIR DAMPERS SHALL OPEN TO THE SET POSITION. THE SPACE THERMOSTAT SHALL CYCLE IN THE COOLING CIRCUIT TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. IF THE SPACE THERMOSTAT IS CALLING FOR COOLING AND THE ENTHALPY OF THE OUTSIDE AIR IS SUITABLE FOR FREE COOLING, THE UNIT SHALL UTILIZE ECONOMIZER COOLING.

4. UNOCCUPIED COOLING: THE OUTSIDE AIR DAMPER SHALL CLOSE, AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN. THE SUPPLY FAN AND COOLING CIRCUIT SHALL CYCLE AS REQUIRED TO MAINTAIN THE NIGHT SETBACK TEMPERATURE SET POINT. THE GAS FURNACE SHALL BE DE-ENERGIZED.

5. ECONOMIZER MODE: WHEN THE OUTDOOR ENTHALPY IS SUITABLE FOR FREE COOLING, THE UNIT SHALL UTILIZE THE ECONOMIZER CYCLE BY MODULATING THE OUTSIDE AIR DAMPER TO UP 100% (SUBJECT TO MIXED AIR LOW LIMIT CONTROL SET AT 55°F.). IF THE OUTSIDE AIR TEMPERATURE IS GREATER THAN THE ROOM TEMPERATURE AND THE ROOM THERMOSTAT IS CALLING FOR COOLING, THE OUTSIDE AIR DAMPER SHALL CLOSE TO MINIMUM POSITION AND USE MECHANICAL COOLING.

6. DEMAND CONTROL VENTILATION: MINIMUM FRESH AIR POSITION SHALL BE DETERMINED BY A DEMAND CONTROL VENTILATION CYCLE. RETURN AIR CO2 SENSOR AND OUTDOOR AIR SENSOR WILL BE MEASURED AND COMPARED. DURING THE OCCUPIED MODE THE OUTSIDE AIR DAMPERS AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN A MAXIMUM CO2 LEVEL OF 1000 PPM. THE MAXIMUM OUTDOOR AIR SHALL BE LIMITED TO 1000CFM DURING THE HEATING MODE.

A. SPLIT SYSTEM:

1. THE UNIT SHALL OPERATE OFF OF THE MANUFACTURER'S WALL-MOUNTED THERMOSTAT.
2. OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE PROGRAMMED BY THIS CONTRACTOR AT THE DIRECTION OF THE OWNER.
3. ROOM COOLING SETPOINT: 75°F HEATING SETPOINT: 70°F (ADJUSTABLE)

3.02 BALANCING, ADJUSTING, TESTING, & CLEANING:

A. ALL HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT TESTING AND BALANCING AGENCY CERTIFIED BY AABC. ALL TESTING SHALL BE IN ACCORDANCE WITH AABC & NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, FORM #81266. SYSTEMS SHALL BE ADJUSTED TO FLOW AND AIR QUANTITIES DESIGNED. A WRITTEN REPORT SHALL BE SUBMITTED FOR REVIEW.

B. PROVIDE QUALIFIED PERSONNEL, EQUIPMENT, APPARATUS AND SERVICES FOR STARTUP TESTING AND BALANCING OF MECHANICAL SYSTEMS FOR QUANTITIES INDICATED ON DRAWINGS UPON COMPLETION OF INSTALLATION. BALANCE SYSTEMS IN ACCORDANCE WITH CODES, STANDARDS, REGULATIONS AND AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL USE RECENTLY CALIBRATED EQUIPMENT COMPATIBLE WITH INSTALLED EQUIPMENT AND SUBMIT BALANCING REPORT TO THE ENGINEER.

C. AIR BALANCING: PROVIDE COMPLETE BALANCING AND ADJUSTING OF ALL AIR SYSTEMS INCLUDING SETTING THE FLOW THROUGH ALL UNITS, DIFFUSERS, VOLUME DAMPERS AND GRILLES. RECORD ALL FAN MOTOR CURRENTS AND NAMEPLATE DATA. TEST AND ADJUST FLOW AT EACH UNIT, DIFFUSERS, AND VOLUME DAMPER. LIST DESIGN AND MEASURED FLOWS AND TEMPERATURES.

D. HYDRONIC BALANCING: BALANCE SYSTEM TO GPM FLOWS INDICATED. TAG EACH BALANCING DEVICE WITH GPM OF FINAL BALANCE AND POSITION OF BALANCE POINT.

E. ALL HVAC SYSTEMS SHALL BE TESTED AND FOUND TIGHT. ANY LEAKS DEVELOPED SHALL BE CORRECTED PRIOR TO OWNER'S ACCEPTANCE OF THE NEW SYSTEMS.

F. ALL EXISTING HVAC SYSTEMS TO REMAIN SHALL BE PERFORMANCE TESTED TO VERIFY OPERATION OF CONTROLS.

3.02 PIPING SYSTEM CLEANING

A. THE PIPING SYSTEMS SHALL BE CLEANED AND FLUSHED WITH CHEMICALS IN ACCORDANCE WITH THE FOLLOWING SEQUENCES:

1. INITIAL FLUSH - THE INITIAL FLUSH SHALL BE PERFORMED ON THE WELDED MAINS, WITH PUMPS RUNNING AND BEFORE ANY BRANCH PIPING OR EQUIPMENT HAS BEEN CONNECTED. THIS INITIAL FLUSH IS TO REMOVE WELDING SLAG AND OTHER FOREIGN OBJECTS OUT OF THE PIPING SYSTEMS. FLUSH SYSTEMS UNTIL ALL MATTER HAS BEEN REMOVED FROM PIPING. AFTER THIS FLUSHING, THE STRAINERS SHALL BE OPENED, SCREENS REMOVED AND THE ENTIRE UNIT CLEANED AND RE-INSTALLED.

2. PRE-CLEANING - AFTER THE INITIAL FLUSH, THE PIPING MAINS SHALL THEN BE PRE-CLEANED FOR A MINIMUM OF EIGHT HOURS WITH THE PUMPS RUNNING AND BEFORE ANY BRANCH PIPING OR EQUIPMENT HAS BEEN CONNECTED WITH CLEANING CHEMICALS PROVIDED BY THE WATER TREATMENT CONTRACTOR. AFTER THE PRE-CLEANING, THE STRAINERS SHALL BE OPENED, SCREENS REMOVED AND THE ENTIRE UNIT CLEANED AND RE-INSTALLED.

3. CLEANING - AFTER EQUIPMENT AND BRANCH PIPING HAS BEEN INSTALLED, THE ENTIRE PIPING SYSTEMS SHALL THEN BE CLEANED OUT FOR A MINIMUM OF EIGHT HOURS WITH THE PUMPS RUNNING, ALL VALVES OPEN TO EQUIPMENT COILS AND ALL VALVES OPEN IN THE SYSTEMS TO ALLOW COMPLETE CIRCULATION OF CLEANING CHEMICALS. THE WATER TREATMENT CONTRACTOR SHALL PROVIDE THE CLEANING CHEMICALS REQUIRED TO PERFORM THIS CLEANING. AFTER PIPING SYSTEM CLEANING, ALL STRAINERS SHALL BE OPENED, SCREENS REMOVED AND THE ENTIRE UNIT CLEANED AND RE-INSTALLED.

4. FLUSHING - AFTER THE PIPING SYSTEMS CLEANING, THE SYSTEMS SHALL THEN BE RE-FILLED WITH WATER AND CIRCULATED FOR A MINIMUM OF TWO HOURS, FOLLOWED BY DRAINING THE ENTIRE SYSTEMS. THE HOT WATER SYSTEM SHALL BE BROUGHT UP TO OPERATING TEMPERATURE FOR THIS PROCEDURE. AFTER SYSTEMS DRAINING, THE STRAINER SHALL BE REMOVED AND CLEANED.

5. PH BALANCE AND TREATMENT - AFTER THE TWO HOUR FLUSH BUT BEFORE THE WATER BALANCE, THE PIPING SYSTEMS SHALL BE FLUSHED UNTIL THE TOTAL ALKALINITY OF THE RINSE WATER IS EQUAL TO THAT OF THE MAKE-UP WATER. ONCE THIS HAS BEEN COMPLETED, THE SYSTEMS SHALL BE REFILLED WITH CLEAN WATER AND SHALL BE TREATED PER SECTION 15545. THE TREATMENT SHALL BE PERFORMED BY THE WATER TREATMENT CONTRACTOR.

B. THE PIPING SYSTEMS CLEANING AND FLUSHING SHALL BE WITNESSED AND VERIFIED BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY IN WRITING THAT THE CLEANING AND FLUSHING OF THE PIPING SYSTEMS HAS BEEN PERFORMED AND SHALL HAVE THE SIGNATURE OF THE OWNER'S REPRESENTATIVE.

C. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE WATER TREATMENT CONTRACTOR THE CAPACITIES OF THE SYSTEMS SO THAT PROPER DOSAGES OF PRODUCTS WILL BE USED.

D. VALVES FOR FLUSHING WELDED PIPING MAINS SHALL BE LOCATED AT THE LOW POINTS IN THE MAINS. MAINS SHALL BE FLUSHED BEFORE ANY BRANCH PIPING OR EQUIPMENT IS CONNECTED. RENEWAL PROJECTS WHICH MUST HAVE PIPING MAINS INSTALLED IN PHASES SHALL HAVE SEPARATE VALVES INSTALLED FOR EACH PHASE.

E. CLEAN STRAINERS AFTER ONE WEEK RUNNING TIME AND REPLACE WITH FINE MESH.

3.03 PROJECT CLOSE-OUT:

A. RESTORE EXISTING FACILITIES USED DURING CONSTRUCTION TO ORIGINAL CONDITION. CLEAN PORTIONS OF THE SITE AFFECTED BY WORK OF THIS CONTRACT. REMOVE WASTE AND SURPLUS MATERIALS FROM THE SITE.

B. SUBMIT TWO COPIES OF OPERATION AND MAINTENANCE DATA BOUND IN THREE-RING BINDERS. INCLUDE WARRANTIES, SUBMITTALS, BALANCING REPORT, AND PROJECT DOCUMENTS AND CERTIFICATES. THE MANUAL SHALL ALSO INCLUDE A SCHEDULE FOR EQUIPMENT MAINTENANCE SCHEDULE SHALL PROVIDE A GENERAL OUTLINE FOR EQUIPMENT REQUIREMENT. EXAMPLE; FILTERS SHALL BE CHANGED EVERY 3 MONTHS, TEST DAMPERS ONCE A YEAR, MAINTAIN NEUTRALIZING KIT AT THE AIR HANDLERS.

C. CONTRACTOR SHALL INSTRUCT OWNER IN USE OF SYSTEM.

D. CONTRACTOR SHALL DEMONSTRATE ALL SEQUENCES OF CONTROL TO THE ENGINEER. THE TEMPERATURE CONTROL AND BALANCING SUB-CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING CHECK-OUT PROCEDURE AND SHALL DEMONSTRATE PROPER BALANCING POSITIONS OF MINIMUM FRESH-AIR SETTINGS. PERSONNEL SHALL BE EQUIPPED WITH TOOLS AND SPARE PARTS TO MAKE MINOR REPAIRS AND ADJUSTMENTS.

E. PROVIDE SYSTEM START UP STRAINER. FLUSH SYSTEM TO CLEAR ALL CONSTRUCTION DEBRIS. CHANGE STRAINER TO STANDARD MESH.

F. SYSTEM SHALL BE THEN TESTED BY BARDON CHEMICAL COMPANY. BARDON CHEMICAL COMPANY SHALL BE CONTRACTED FOR A ONE TIME SYSTEM TREATMENT AND REPORT. PROVIDE TEST KIT AND INSTRUCTION FOR OWNER'S USE. FLUSH ALL SYSTEMS, CLEAN STRAINERS, AND ADD CHEMICALS TO OBTAIN 1200PPM OF NITRITE.

A. CARBON MONOXIDE CONTROL SYSTEM:

1. PROVIDE ALL LABOR, MATERIALS, PRODUCTS AND SERVICE TO SUPPLY AND INSTALL A CARBON MONOXIDE DETECTION AND CONTROL SYSTEM. SYSTEM SHALL BE MANUFACTURED BY VULCAIN ALARM Inc., AIRTEST TECHNOLOGIES Inc., OR ENGINEER APPROVED EQUAL.

2. 2UPON DETECTION OF CARBON MONOXIDE CONCENTRATIONS OF 25ppm OR GREATER THE MOTORIZED DAMPER ON THE INTAKE AIR LOUVER SHALL OPEN AND THE EXHAUST FAN SHALL BE RUN AT HIGH SPEED.

3. INSTALL CARBON MONOXIDE CONTROL SYSTEM IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION RECOMMENDATIONS.

4. EXHAUST FAN:
a. LOW SPEED: THE FAN SHALL RUN ON NEED FOR COOLING DURING THE OCCUPIED MODE & DE-ENERGIZED DURING THE UNOCCUPIED MODE.

b. HIGH SPEED: SHALL BE ENERGIZED UPON DETECTION OF CARBON MONOXIDE.

5. GARAGE VENTILATION: WHENEVER THE SPACE TEMPERATURE RISES ABOVE 85°F. (ADJUSTABLE) AS SENSED BY A SPACE TEMPERATURE THERMOSTAT, THE INTAKE AIR DAMPER SHALL OPEN & REF-1 SHALL RUN ON LOW SPEED. WHEN THE SPACE TEMPERATURE DROPS BELOW 85°F. THE DAMPER SHALL CLOSE & FAN SHALL BE OFF.

3.02 BALANCING, ADJUSTING, TESTING, & CLEANING:

A. ALL HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT TESTING AND BALANCING AGENCY CERTIFIED BY AABC {{AND HIRED BY THE UNIVERSITY UNDER AN ALLOWANCE AS PART OF THIS CONTRACT}}. ALL TESTING SHALL BE IN ACCORDANCE WITH AABC & NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, FORM #81266. SYSTEMS SHALL BE ADJUSTED TO FLOW AND AIR QUANTITIES DESIGNED. A WRITTEN REPORT SHALL BE SUBMITTED FOR REVIEW.

B. PROVIDE QUALIFIED PERSONNEL, EQUIPMENT, APPARATUS AND SERVICES FOR STARTUP TESTING AND BALANCING OF MECHANICAL SYSTEMS FOR QUANTITIES INDICATED ON DRAWINGS UPON COMPLETION OF INSTALLATION. BALANCE SYSTEMS IN ACCORDANCE WITH CODES, STANDARDS, REGULATIONS AND AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL USE RECENTLY CALIBRATED EQUIPMENT COMPATIBLE WITH INSTALLED EQUIPMENT AND SUBMIT BALANCING REPORT TO THE ENGINEER.

C. IF DURING THE PROCESS OF BALANCING ANY CONDITION IS FOUND WHICH MAKES THE ITEM UNABLE TO BE BALANCED IT MUST BE NOTED IN THE REPORT (IE MISSING OR BROKEN VOLUME DAMPER, MOTORIZED DAMPER/VAV/VALVE NOT OPERATING CORRECTLY, HW OR CHW SUPPLIED TEMPERATURE FOUND TO BE OUT OF NORMAL OPERATING RANGE, VOLUME DAMPER IS IN AN INACCESSIBLE LOCATION, BALANCING OR AIR DEVICE IS MISSING).

D. THE TAB CONTRACTOR SHALL NOTIFY AND ARRANGE IN ADVANCE TO INCLUDE THE SERVICES OF THE TAB CONTRACTOR TO FACILITATE AUTOMATED SYSTEM OPERATION FOR BALANCING AT THE CORRECT MAXIMUM AND MINIMUM AIR AND WATER FLOWS AND TEMPERATURES, AND COORDINATE WITH THE BUILDING OWNER OR PROJECT SUPERINTENDENT TO PROVIDE ACCESS TO ALL SPACES NECESSARY FOR SYSTEM BALANCING.

E. ADJUST THE TOTAL CFM SUPPLIED BY THE MAU WITH THE ADJUSTMENTS MADE TO THE MOTOR'S STATIC PRESSURE SETTING BY SIEMENS; RECORD THE CFM AND SP SETTING
TEST THE ENTERING CHILLED WATER TEMPERATURE ***IF THE EWT IS NOT BELOW 48 DEG CONTACT FACILITIES TO COMMUNICATE THE PROBLEM WITH THE CHILLER*** IF THE EWT IS IN THE CORRECT TEMPERATURE RANGE TO PROVIDE COOLING AND DEHUMIDIFICATION, OPEN THE CONTROL VALVE FULLY
· CONFIRM, ADJUST IF NECESSARY AND RECORD THE ACTUAL WATER FLOW
· TEST AND RECORD THE ACTUAL EWT & LWT
· CONFIRM AND RECORD ACTUAL WATER PRESSURE DROP AT THE COIL
· CONFIRM AND RECORD ACTUAL WATER PRESSURE DROP AT THE CONTROL VALVE ***IF THE PRESSURE RECORDED IS HIGHER THAN WHAT IS INDICATED ON THE SUBMITTAL INVESTIGATE AND CORRECT THE PROBLEM WITH THE INSTALLATION***
TEST AND RECORD THE MAU ENTERING AND LEAVING AIR TEMPERATURE AFTER CONFIRMING THAT THE WATER FLOW CIRCUIT IS OPERATING CORRECTLY.
CONFIRM THAT WHEN COMMANDED THROUGH THE DDC (RATHER THAN BEING MANUALLY OPENED) THAT THE CONTROL VALVE IS OPENING TO A FULL FLOW POSITION.
*IN YOUR TAB REPORT YOU SHOULD REPORT ANY ADJUSTMENTS MADE OR REASONS WHY THE SYSTEM COULD NOT BE BALANCED TO THE PROPER VALUES FOR THIS EQUIPMENT.
E.

F. AIR BALANCING:
F.A. PROVIDE COMPLETE BALANCING AND ADJUSTING OF ALL AIR SYSTEMS INCLUDING SETTING THE FLOW THROUGH ALL UNITS, DIFFUSERS, VOLUME DAMPERS AND GRILLES.
F.B. RECORD ALL FAN MOTOR CURRENTS AND NAMEPLATE DATA.
F.C. TEST, ADJUST FLOW TO WITHIN 10% OF THE SCHEDULED CFM AT EACH UNIT, DIFFUSERS, AND VOLUME DAMPER, AND RECORD.
F.D. LIST DESIGN AND MEASURED CFM FLOWS AND ENTERING/MIXED/LEAVING AIR TEMPERATURES.

G. HYDRONIC BALANCING: BALANCE SYSTEM TO GPM FLOWS INDICATED. TAG EACH BALANCING DEVICE WITH GPM OF FINAL BALANCE AND POSITION OF BALANCE POINT.

H. ALL HVAC SYSTEMS SHALL BE TESTED AND FOUND TIGHT. ANY LEAKS DEVELOPED SHALL BE CORRECTED PRIOR TO OWNER'S ACCEPTANCE OF THE NEW SYSTEMS.

I. ALL EXISTING HVAC SYSTEMS TO REMAIN SHALL BE PERFORMANCE TESTED TO VERIFY OPERATION OF CONTROLS.

Certification

DANIEL JAY HERZIG, JR.
No. 7806
REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Drawn by Author
Checked by Checker

Revised on

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Project

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Sheet Contents

MECHANICAL SPECIFICATIONS (Cont.)

Project Number. 6846

Drawing No. M801

Sheet of

POWER DISTRIBUTION LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- 208Y/120 VOLT PANELBOARD, SURFACE MOUNTED, REFER TO SCHEDULE OF PANELBOARDS.
- 208Y/120 VOLT PANELBOARD, FLUSH MOUNTED, REFER TO SCHEDULE OF PANELBOARDS.
- 480Y/277 VOLT PANELBOARD, SURFACE MOUNTED, REFER TO SCHEDULE OF PANELBOARDS.
- 480Y/277 VOLT PANELBOARD, FLUSH MOUNTED, REFER TO SCHEDULE OF PANELBOARDS.
- LCP — LIGHTING CONTROL PANEL, REFER TO PLANS FOR LIGHTING CONTROL PANEL SCHEDULE.
- ATS — AUTOMATIC TRANSFER SWITCH.
- T3 — DRY TYPE TRANSFORMER. "T3" INDICATES kVA RATING OF TRANSFORMER. REFER TO DRY TYPE TRANSFORMER SCHEDULE.
- CT — CURRENT TRANSFORMER CABINET.
- CM — E-MON D-MON TENANT METER, OR AS NOTED.
- M — METER SOCKET AND UTILITY COMPANY ELECTRIC METER, OR AS NOTED.
- BUSWAY, VERTICAL, REFER TO RISER FOR RATING.
- PBW — FEEDER BUSWAY WITH ALL REQUIRED FITTINGS AND ACCESSORIES.
- PBW — PLUG-IN BUSWAY, HORIZONTAL WITH FUSED PLUG-IN DISCONNECT.
- "MSB" — SWITCHBOARD.
- ENCLOSED CIRCUIT BREAKER.
- T — TRANSFORMER.

BRANCH CIRCUIT & FEEDER LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- BRANCH CIRCUIT OR FEEDER CONCEALED IN FINISHED AREAS.
- BRANCH CIRCUIT OR FEEDER CONCEALED IN OR UNDER FLOOR SLAB.
- BRANCH CIRCUIT OF FEEDER TURNING UP TOWARDS OBSERVER.
- BRANCH CIRCUIT OR FEEDER TURNING DOWN AWAY FROM OBSERVER.
- CONDUIT STUBBED ABOVE CEILING.
- R22A-1,3,5 — BRANCH CIRCUIT HOME RUN TICKS INDICATE QUANTITY OF CONDUCTORS, GROUND CONDUCTORS ARE NOT INDICATED, NO TICKS INDICATES 2#12+#12-3/4"C MINIMUM. "R22A/1,3,5" INDICATES PANEL AND CIRCUIT DESIGNATION FROM WHICH HOMERUN SHALL ORIGINATE. EACH CIRCUIT SHALL BE 20A/1P (20 AMP/SINGLE POLE); UNLESS OTHERWISE NOTED.
- R22A-1,3,5 100A/3P 1 — FEEDER HOMERUN. REFER TO LEGEND OF FEEDER SIZES FOR CONDUCTOR AND RACEWAY REQUIREMENTS DESIGNATED INSIDE TAG. "R22A-1,3,5" INDICATES PANEL AND CIRCUIT NUMBER DESIGNATION FORM WHICH HOME RUN SHALL ORIGINATE, 100A/3P INDICATES 100 AMPERE, 3 POLE CIRCUIT BREAKER.
- FLEXIBLE CONNECTION TO EQUIPMENT. RACEWAY AND CONDUCTOR RATING TO MATCH ASSOCIATED BRANCH CIRCUIT OR FEEDER.

LIGHTING FIXTURE LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- A a — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- B b — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- C c — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- D d — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- E e — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- F f — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- A a — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON LIFE SAFETY OR EMERGENCY CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- B b — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON LIFE SAFETY OR EMERGENCY CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- C c — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON LIFE SAFETY OR EMERGENCY CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- D d — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON LIFE SAFETY OR EMERGENCY CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- E e — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON LIFE SAFETY OR EMERGENCY CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- F f — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON LIFE SAFETY OR EMERGENCY CIRCUIT. LETTER INDICATES TYPE. SUBSCRIPT INDICATES CONTROL AND CIRCUIT NUMBER.
- X — EXIT SIGN, ONE OR TWO FACED. ARROWS DENOTE DIRECTION. SHADING DENOTES NUMBER AND ORIENTATION OF SIGN FACES(S).
- X — EXIT SIGN WITH EMERGENCY LIGHTS.
- EMERGENCY LIGHTING BATTERY UNIT WITH EMERGENCY LIGHTS.

POWER OUTLETS & DEVICES LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

POWER RECEPTACLES:
ALL RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED. THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL RECEPTACLES TYPES:

ACT = ATC SUB-CONTRACTOR'S USE.
C = MOUNTED AT 6" ABOVE BACK SPLASH TO BOTTOM, REFER TO ARCHITECTURAL ELEVATIONS FOR COORDINATION.
CLG = CEILING MOUNTED.
D = ELECTRIC DRYER.
W/D = ELECTRIC WASHER/DRYER COMBO UNIT.
DE = DUEL ELEMENT FUSES.
DW = DISHWASHER.
EWC = ELECTRIC WATER COOLER.
F = FREEZER.
GD = GARBAGE DISPOSAL.
HD = HAND DRYER.
IG = ISOLATED GROUND.
M = MICROWAVE.
MD = MOTORIZED DAMPER.
MF = MOUNTED IN FURNITURE; REFER TO ARCHITECTURAL ELEVATIONS FOR COORDINATION.
OV = OVEN.
T = TAMPER RESISTANT.
TL = TWIST LOCK.
R = REFRIGERATOR.
WH = WASHER.
WP = WEATHERPROOF.

- SINGLE RECEPTACLE ON NORMAL CIRCUIT.
- DUPLEX RECEPTACLE ON NORMAL CIRCUIT.
- CEILING MOUNTED DUPLEX RECEPTACLE ON NORMAL CIRCUIT.
- DOUBLE DUPLEX RECEPTACLE ON NORMAL CIRCUIT.
- DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE ON NORMAL CIRCUIT.
- XX-XXR — SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT.
- J J — JUNCTION BOX.
- PT # — FIRE RATED POKE-THRU; REFER TO POKE-THRU DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
- FB # — FLOOR BOX; REFER TO FLOOR BOX DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
- SURFACE METAL RACEWAY, EQUAL TO WIREMOLD SERIES 3000. PROVIDE WITH RECEPTACLES AS INDICATED ON PLANS WITH ACCESSORIES (ELBOWS, COVERS, COUPLINGS, ETC.) FOR A CONTINUOUS, COMPLETE INSTALLATION. COLOR BY ARCHITECT, IVORY OR GRAY.
- SURFACE METAL RACEWAY, EQUAL TO WIREMOLD SERIES 4000. PROVIDE WITH RECEPTACLES AND TECHNOLOGY OUTLETS AS INDICATED ON PLANS WITH ACCESSORIES (ELBOWS, COVERS, COUPLINGS, DIVIDERS, ETC.) FOR A CONTINUOUS, COMPLETE INSTALLATION. COLOR BY ARCHITECT, IVORY OR GRAY.

TELECOMMUNICATION LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

TELECOMMUNICATION OUTLETS:
COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH OWNERS AND TELECOMMUNICATIONS VENDOR PRIOR TO ROUGH-IN; MOUNT VERTICAL OUTLETS AT 18"A.F.F. TO CENTER UNLESS OTHERWISE DIRECTED. THE DESIGNATIONS SHALL APPLY TO ALL OUTLET TYPES:

C = INDICATES MOUNTED AT 6" ABOVE BACK SPLASH TO BOTTOM, REFER TO ARCHITECTURAL ELEVATIONS.
F = INDICATES FLOOR MOUNTED.
P = INDICATES MOUNTED AT 47" A.F.F.
W = INDICATES MOUNTED AT 54" A.F.F.
H = INDICATES MOUNTED AT 82" A.F.F.

- TELECOMMUNICATIONS OUTLET, REFER TO TELECOMMUNICATIONS CONDUIT DETAIL FOR ADDITIONAL INFORMATION.

MOTOR AND CONTROLS LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- SEM — BOILER EMERGENCY SWITCH. AROW-HART#CS120 WITH MULLBERRY#41020 PLATE.
- ST — SINGLE POLE MOTOR RATED SWITCH WITH OVERLOAD HEATER (MANUAL MOTOR STARTER).
- 30/3/1 — UN-FUSED DISCONNECT SWITCH WITH RATINGS.
  - NEMA RATING. "WP" INDICATES RAINTIGHT
  - NUMBER OF POLES
  - SWITCH SIZE
- 30/20/3/DE/1 — FUSED DISCONNECT SWITCH WITH RATINGS.
  - NEMA RATING. "WP" INDICATES RAINTIGHT
  - INDICATES DUAL ELEMENT FUSES
  - NUMBER OF POLES
  - FUSE SIZE. "NF" INDICATES NON FUSED
  - SWITCH SIZE
- 30/20/3/DE/1 — FUSED STARTER\DISCONNECT SWITCH WITH RATINGS.
  - NEMA RATING. "WP" INDICATES RAINTIGHT
  - INDICATES DUAL ELEMENT FUSES
  - NUMBER OF POLES
  - FUSE SIZE. "NF" INDICATES NON FUSED
  - SWITCH SIZE
- MAGNETIC MOTOR STARTER.
- 3 — MOTOR. "3" INDICATES HORSEPOWER RATING.
- VFD — VARIABLE FREQUENCY DRIVE.
- XXX / XX — EQUIPMENT TAG, REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.

LIGHTING CONTROL LEGEND

LC / 2

- LC INDICATED LIGHTING CONTROL DETAIL
- NUMBER REFERS TO LIGHTING CONTROL DETAIL TO BE REFERENCED, TYPICAL.

NOTES:

1. THIS TAG INDICATES LIGHTING CONTROL REQUIREMENTS. REFER TO LIGHTING CONTROL DETAIL DRAWINGS FOR DETAIL ASSOCIATED WITH THE ROOM.

EQUIPMENT DESIGNATION LEGEND

D P 4 1 1 2A

- VOLTAGE
- EQUIPMENT TYPE
- BUILDING LEVEL
- SEQUENCE
- BUILDING IDENTIFICATION

EQUIPMENT TYPE:
MS = SWITCHGEAR/SWITCHBOARD
E = EMERGENCY PANEL
P = POWER PANEL
M = MECHANICAL PANEL
L = LIGHTING PANEL
LC = LIGHTING CONTROL PANEL
O = OPTIONAL STANDBY PANEL
K = KITCHEN PANEL
D = DISTRIBUTION PANEL
S = SHOP PANEL

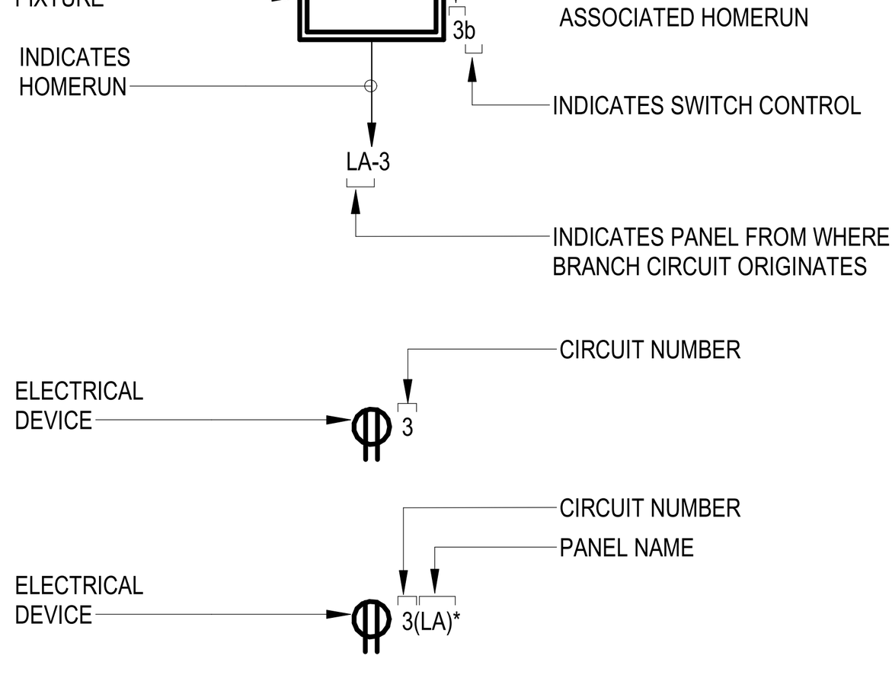
VOLTAGE:
4 = 480V
2 = 208V
C = CONTROL

SEQUENCE:
1 = FIRST PANEL
2 = SECOND PANEL
3 = THIRD PANEL
ETC.

BUILDING LEVEL:
1 = FIRST
2 = SECOND
3 = THIRD
ETC.

BUILDING IDENTIFICATION:
2A = _____
2B = _____

CIRCUITING LEGEND



*BRANCH CIRCUIT SOURCE PANELBOARD INDICATED IN PARENTHESIS FOR REFERENCE WHERE HOMERUN IS NOT VISIBLE ON PLAN.

GENERAL NOTES:

1. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, RECEPTACLES, OUTLETS, ETC. INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS. REFER TO SPECIFICATIONS FOR APPLICABLE MEANS AND METHODS.
2. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
3. WIRING SHALL BE 2#12+#12G IN 3/4"C MINIMUM.

AUDIO/VISUAL LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

AUDIO/VISUAL OUTLETS:
COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH OWNERS AUDIO VISUAL VENDOR PRIOR TO ROUGH-IN; MOUNT TYPICAL OUTLETS AT 18" A.F.F. TO CENTER UNLESS OTHERWISE DIRECTED. THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL OUTLET TYPES:

C = INDICATES MOUNTED AT 6" ABOVE BACK SPLASH TO BOTTOM, REFER TO ARCHITECTURAL ELEVATIONS.
F = INDICATES FLOOR MOUNTED.
P = INDICATES MOUNTED AT 47" A.F.F.
W = INDICATES MOUNTED AT 54" A.F.F.
H = INDICATES MOUNTED AT 82" A.F.F.

- # DB — DISPLAY OUTLET BOX; REFER TO OUTLET DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.

SECURITY LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

SECURITY SYMBOL NOTES:
COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH OWNERS SECURITY VENDOR PRIOR TO ROUGH-IN.

- CR — CARD READER; BY OWNER'S SECURITY VENDOR.
- DC — WIRELESS INTRUSION DETECTION SYSTEM DOOR CONTACT; BY OWNER'S SECURITY VENDOR.

ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

A/AMP	AMPERE	KVA	KILOVOLT-AMPERE
AC	ALTERNATING CURRENT	KW	KILOWATT
ADA	AMERICAN WITH DISABILITIES ACT	KWH	KILOWATT HOURS
AF	AMPERE FRAME	LAN	LOCAL AREA NETWORK
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	LV	LOW VOLTAGE
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	M/G	MOTOR/GENERATOR SET
ALCS	AUTOMATED LIGHTING CONTROL SYSTEM	MH	MANHOLE
AL	ALUMINUM	MLO	MAIN LUG ONLY
AT	AMPERE TRIP	MTD	MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	MTG	MOUNTING
AWG	AMERICAN WIRE GAUGE	N	NEUTRAL
AV	AUDIO VISUAL	NA	NOT APPLICABLE
B	BURIED	NC	NORMALLY CLOSED CONTACT
BFG	BELOW FINISHED GRADE	NEC	NATIONAL ELECTRICAL CODE
BOF	BOTTOM OF FIXTURE	NF	NOT FUSIBLE
C	CONDUIT	NG	NATIONAL GRID (ELECTRIC UTILITY)
CA	CABLE	NL	NIGHT LIGHT
CAT	CATALOG	NIC	NOT IN CONTRACT
CATV	CABLE TELEVISION	NO	NORMALLY OPEN CONTACT
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OPD	OVER CURRENT PROTECTION DEVICE
CBA	COLOR BY ARCHITECT	P	POLE
CD	CANDELA	PH	PHASE
CKT	CIRCUITS	POS	PROVIDED UNDER OTHER SECTIONS
CPU	CENTRAL PROCESSING UNIT		
CONT.	CONTINUATION	POTS	PLAIN ORDINARY TELEPHONE
CU	COPPER	PVC	POLYVINYL CHLORIDE
\℄	CENTERLINE	PWR	POWER
dB	DECIBEL	RGS	RIGID GALVANIZED STEEL
DC	DIRECT CURRENT	RIEC	RHODE ISLAND ELECTRICAL CODE
DN	DOWN	RMS	ROOT MEAN SQUARE VALUE
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	SN	SOLID NEUTRAL
ECPS	EMPTY CONDUIT WITH PULLSTRING	SS	SECURITY
EG	EQUIPMENT GROUND	SWBD	SWITCHBOARD
ELEV	ELEVATION	TTB	TELEPHONE TERMINAL BOARD
EMT	ELECTRIC METALLIC TUBING	TEL	TELEPHONE
F	FAHRENHEIT	TML	TERMINAL
FA	FIRE ALARM	TSP	TWISTED SHIELDED-PAIR
FACP	FIRE ALARM CONTROL PANEL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
FBA	FINISH BY ARCHITECT		
FDR	FEEDER	TYP	TYPICAL
FLA	FULL LOAD AMPERES	UG	UNDERGROUND
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	UL	UNDERWRITERS LABORATORIES
		UNO	UNLESS NOTED OTHERWISE
FREQ	FREQUENCY	UON	UNLESS OTHERWISE NOTED
G	GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
GEC	GROUNDING ELECTRODE CONDUCTOR	UTP	UNSHIELDED TWISTED-PAIR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	V	VOLTS
GND	GROUND	VA	VOLT-AMPERE
HH	HANDHOLE	VO	TELEPHONE
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	VSD	VARIABLE SPEED DRIVE
		W	WATTS
HZ	HERTZ	W/	WITH
IG	ISOLATED GROUND	WP	WEATHERPROOF
JB	JUNCTION BOX	XFMR/T	TRANSFORMER

FIRE ALARM LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

FIRE ALARM DEVICES:
ALL FIRE ALARM NOTIFICATION DEVICES SHALL BE MOUNTED AT 80" A.F.F. TO BOTTOM OF STROBE LENS, UNLESS OTHERWISE NOTED. ALL FIRE ALARM PULL STATIONS SHALL BE MOUNTED AT 48" A.F.F. TO CENTER OF DEVICE. REMOTE TEST SWITCHES SHALL BE MOUNTED AT 7'-0" A.F.F. IN CORRIDOR BELOW DUCT SMOKE DETECTOR. THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL FIRE ALARM DEVICES; UNLESS OTHERWISE NOTED:

WP = WEATHERPROOF.
CLG = CEILING MOUNTED.
K = KEY OPERATED TEST SWITCH.
WG = WIREGUARD.
SC = STOPPER COVER.

- S — FIRE ALARM SMOKE DETECTOR. BRK CATALOG #: 7010B.
- FIRE ALARM HEAT DETECTOR.
- 15cd — HORN/STROBE COMBINATION. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED.
- 15cd — FIRE ALARM STROBE ONLY. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED.
- 15cd c — HORN/STROBE COMBINATION; CEILING MOUNTED. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED.
- 15cd c — FIRE ALARM STROBE ONLY; CEILING MOUNTED. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED. BRK CATALOG #: SLED177.
- FACP — FIRE ALARM CONTROL PANEL.
- FARA — FIRE ALARM REMOTE ANNUNCIATOR.
- NAC — FIRE ALARM POWER SUPPLY UNIT FOR NOTIFICATION APPLIANCES.
- FAGM — FIRE ALARM GRAPHIC MAP.
- BATT — FIRE ALARM BATTERY CABINET.
- FAAC — FIRE ALARM AS-BUILT CABINET.
- RI — FIRE ALARM INDICATING LIGHT.
- F — FIRE ALARM PULL STATION.
- K — KEY ACCESS BOX.
- MM — FIRE ALARM MONITOR MODULE.
- MB — FIRE ALARM SYSTEM MASTERBOX.
- B — FIRE ALARM BEACON.

LIGHTING CONTROL LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- S_a — SINGLE POLE SWITCH. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S_{2a} — TWO POLE SWITCH. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S_{3a} — THREE WAY SWITCH. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S_{4a} — FOUR WAY SWITCH. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S_{SH} — ELECTRIC SHADE CONTROLLER SWITCH.
- LC a — SENSORWORX #SWX-854-2-XX LOCAL SWITCHING/DIMMING STATION, MOUNTED AT 48" A.F.F. TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- L a — SENSORWORX #SWX-950-AX-D2 WIRELESS 0-10 DIMMING LOAD CONTROLLER (WHEN REQUIRED). AMPERAGE RATING OF DEVICE TO BE SELECTED PER LOAD.
- OS a — CEILING MOUNTED DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR, PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY, EQUAL TO SENSORWORX #SWX-121-XX, WITH POWER PACK. MOUNT AT LEAST 6'-0" FROM A SUPPLY REGISTER. LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES. POWER PACK SHALL BE LOCATED ABOVE CEILING, ABOVE SENSOR. MOUNT OCCUPANCY SENSOR AT SAME HEIGHT OR BELOW ANY PENDANT MOUNTED LIGHTING FIXTURES SO AS TO NOT OBSTRUCT OCCUPANCY SENSOR.

TELECOMMUNICATIONS RACEWAY NOTES

1. NO SECTION OF CONDUIT SHALL BE LONGER THAN 100-FEET BETWEEN PULL POINTS.
2. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS (e.g., OUTLET BOXES, TELECOMMUNICATIONS CLOSETS, OR PULL BOXES). IF THERE IS A REVERSE (U-SHAPED) BEND IN THE SECTION, A PULL BOX SHALL BE INSTALLED.
3. THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.
4. ANY SINGLE CONDUIT RUN EXTENDING FROM A TELECOMMUNICATIONS CLOSET SHALL NOT SERVE MORE THAN THREE OUTLET BOXES.
5. CONDUITS PROTRUDING / PENETRATING THROUGH THE FLOOR IN THE TELECOMMUNICATIONS CLOSETS SHALL BE TERMINATED 3-INCHES ABOVE THE FLOOR ADJACENT WALLS. PROTRUSIONS / PENETRATIONS SHALL BE RELOCATED TO AVOID CREATING A TRIPPING HAZARD WITHIN THE CLOSETS. FIRESTOP ALL PROTRUSIONS / PENETRATIONS.
6. WHERE A TELECOMMUNICATION CONDUIT IS TO BE INSTALLED TO A DEVICE EXPOSED TO THE WEATHER, CARE SHALL BE TAKEN TO PREVENT THE INGRESS OF MOISTURE. CARE SHALL ALSO BE TAKEN TO ENSURE THAT MOISTURE WILL NOT COLLECT IN LOW POINTS OR FREEZE AND DAMAGE THE CABLE. NONMETALLIC CONDUIT SHALL BE UV RESISTANT AND MARKED ACCORDINGLY.
7. CONDUIT SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.
8. REFER TO ANSI/TIA-606-B FOR ADMINISTRATION OF THE CONDUIT SYSTEM IDENTIFICATION.
9. ALL CONDUIT SHALL BE PROVIDED WITH PULL STRINGS.
10. OUTLET BOXES SHALL BE NO SMALLER THAN 4-INCHES WIDE, 4-INCHES HIGH AND 2.5-INCHES DEEP. THIS WILL ACCOMMODATED ONE OR TWO 1-INCH CONDUITS. WHERE A LARGER CONDUIT IS REQUIRED, THE BOX SHALL BE INCREASED ACCORDINGLY. A MAXIMUM 1-1/4-INCH CONDUIT WILL REQUIRE A 5-INCH X 5-INCH X 2-7/8-INCH BOX.
11. CONDUIT TYPE SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR RIGID METAL CONDUIT. LOCATIONS SUBJECT TO MOISTURE SHALL BE RIGID PVC. FLEXIBLE CONDUIT SHALL NOT BE USED FOR TELECOMMUNICATIONS RACEWAYS.
12. CONDUIT REQUIREMENTS FOR SUPPORT, END PROTECTION AND CONTINUITY SHALL COMPLY WITH APPROPRIATE ELECTRICAL CODES.
13. CONDUIT AND BOXES FOR TELECOMMUNICATIONS WIRING SHALL BE DEDICATED TO THOSE SYSTEMS . POWER WIRING SHALL BE KEPT OUT OF CONDUIT AND BOXES DEDICATED TO TELECOMMUNICATIONS WIRING.
14. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS WITH APPROPRIATE UL LISTED FIRESTOPPING DEVICE TO MAINTAIN THE SAME FLAME AND SMOKE RATING OF THE STRUCTURE. FIRESTOP ALL CONDUIT SLEEVES, TRAY OPENINGS, ETC. AS REQUIRED BY UTILIZING UL LISTED STI FIRESTOP DEVICES OR APPROVED EQUAL MANUFACTURER.
15. PROVIDE STI FIRESTOP EZ PATH OR EQUAL FOR ALL PENETRATIONS 2" AND 4" THROUGH FIRE RATED WALLS THAT MEET THE REQUIREMENTS OF THE UL ASSEMBLY BEING PENETRATED. ANY AREAS OF NON-TYPICAL CONSTRUCTION WILL REQUIRE UL ENGINEERING JUDGEMENT PRIOR TO DETERMINING METHODS OF FIRE RATING SEALANT.
16. CONDUIT SIZE FOR MAXIMUM NUMBER OF CABLES (SEE TABLE BELOW):

CONDUIT TRADE SIZE	CABLE OUTSIDE DIAMETER IN INCHES					
	4 PAIR UTP				25 PAIR UTP	
	CAT 3 0.19	CAT 5E 0.22	CAT 6E 0.24	CAT 6A 0.295	CAT 3 0.39	CAT 5E 0.43
3/4"	6	4	3	2	1	1
1"	11	8	6	4	2	2
1-1/4"	17	12	10	7	4	3
1-1/2"	25	18	15	10	6	5
2"	44	32	27	18	10	8
2-1/2"	70	50	42	28	16	13
3"	100	71	60	41	23	19
3-1/2"	137	97	82	56	32	26
4"	179	127	107	73	42	34

GENERAL NEW WORK NOTES

1. USE #10 CONDUCTORS FOR ALL HOMERUNS OVER 100 FEET IN LENGTH.
2. LOCATIONS SHOWN FOR CONNECTIONS TO EQUIPMENT ARE DIAGRAMMATIC. INSTALL FOR EASE OF MAINTENANCE AND TO SUIT EQUIPMENT.
3. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND DISCONNECT SWITCHES.
4. DO NOT INSTALL OUTLET BOXES BACK TO BACK.
5. COLOR CODE ALL WIRING.
6. PROVIDE CONDUIT SLEEVES AS REQUIRED. THROUGH FIRE RATED SEPARATIONS, FIRE SEAL AFTER WIRING IS COMPLETE.
7. SUPPORT EACH LIGHTING FIXTURE INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM AND COORDINATE LOCATIONS WITH REFLECTED CEILING PLAN AND OTHER TRADES TO AVOID CONFLICT.
8. PROVIDE A NYLON PULL CORD IN ALL EMPTY CONDUITS.
9. VERIFY ALL CEILING TYPES AND MATERIALS BEFORE ORDERING ANY LIGHTING FIXTURES.
10. THE LOCATIONS OF HVAC EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FOR EXACT LOCATIONS REFER TO HVAC DRAWINGS AND SHOP DRAWINGS.
11. CONCEAL ALL WIRING UNLESS OTHERWISE NOTED.
12. PROVIDE ALL GROUNDING INCLUDING GREEN EQUIPMENT GROUND IN ALL RACEWAYS. GROUND BUILDING SERVICE ACCORDING TO NEC AND ALSO TO STREET SIDE OF WATER METER AND TO APPROVED GROUND ROD.
13. CIRCUIT NUMBERS INDICATE PANEL AND CIRCUIT BREAKER FOR EQUIPMENT CONNECTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL ALL REQUIRED WIRING PER NATIONAL ELECTRIC CODE AND PROJECT SPECIFICATIONS TO PROPERLY ENERGIZE THE ELECTRICAL SYSTEM. ALL WIRING SHALL BE RUN IN A NEAT AND ORDERLY MANNER.
14. WIRING SHALL NOT BE LAID ON, OR ATTACHED TO THE SUSPENDED CEILING OR ITS SUPPORT WIRES. ALL CABLES SHALL BE RUN PARALLEL OR PERPENDICULAR TO WALLS. DO NOT RUN CABLES DIAGONALLY THROUGH ANY SPACE.
15. WHERE THE NUMBER OF CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY SHALL BE REDUCED PER NATIONAL ELECTRIC CODE TABLE BASED ON NO DIVERSITY. CONSIDER NEUTRALS TO BE CURRENT CARRYING CONDUCTORS.
16. DO NOT COMBINE CIRCUITS OR USE COMMON NEUTRALS
17. LABEL ("BROTHER P-TOUCH LABELING SYSTEM" OR APPROVED EQUAL) OR ENGRAVE EACH RECEPTACLE PLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER.
18. PROVIDE GROUNDING AND BONDING BUSHINGS FOR SERVICE RACEWAYS PER NEC. SIZE THE BONDING JUMPER PER NEC.
19. GROUND ALL TRANSFORMERS ACCORDING TO NEC HANDBOOK (GROUNDING ELECTRODE CONDUCTOR CONNECTION AT TRANSFORMER). SIZE BONDING JUMPER PER NEC.
20. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. NO CLAIM FOR EXTRA COMPENSATION SHALL BE ENTERTAINED FOR WORK WHICH A PRELIMINARY EXAMINATION WOULD HAVE REVEALED. THE SUBMISSION OF A BID WILL BE CONSIDERED AS ACKNOWLEDGMENT ON THE PART OF THE BIDDER OF HIS VISITATION TO THE SITE.
21. OBTAIN ALL NECESSARY PERMITS AND CERTIFICATES. PRESENT SATISFACTORY PROOF OF FINAL INSPECTION AND APPROVAL BY AUTHORITIES HAVING JURISDICTION.
22. MAINTAIN CORRECT PHASE SEQUENCE OF ALL FEEDERS AND CIRCUITS BY ESTABLISHING PHASE IDENTIFICATION AND MAINTAINING CORRECT RELATIONSHIP THROUGHOUT THE SYSTEM. PROVIDE LINE BALANCE WITHIN 10% OF NORMAL LOADS.
23. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL DWELLING UNITS, PER NEC.
24. SEE LOW VOLTAGE (TELECOMMUNICATIONS, SECURITY, AUDIO/VISUAL, ETC.) DRAWINGS FOR ADDITIONAL SCOPE OF WORK. PROVIDE ALL ASSOCIATED POWER CONNECTIONS AND EMPTY RACEWAY SYSTEM AND BOXES. PROVIDE PLASTIC END BUSHINGS AND PULLSTRINGS IN ALL CONDUITS.
25. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOW VOLTAGE (TELECOMMUNICATIONS, SECURITY, AUDIO/VISUAL, ETC.) DEVICES AND EQUIPMENT LOCATION WITH THE AV CONSULTANT PRIOR TO ROUGH IN.
26. CIRCUITS SHOWN ARE BASED ON EXISTING BUILDING DOCUMENTATION. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT CIRCUITING OF AREAS AFFECTED BY SCOPE OF WORK IN THE FIELD.

GENERAL DEMOLITION NOTES

1. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. RENOVATION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. FIELD VERIFY MEASUREMENTS AND CIRCUITING ARRANGEMENTS THAT ARE AS SHOWN ON DRAWINGS.
2. FIELD VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
3. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATIONS. THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF THE WORK. THE ELECTRICAL CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THESE DOCUMENTS, REQUIRING THE ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL WORK FOR THE COMPLETION OF HIS OR HER CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED THE INFORMATION SUPPLIED HEREIN AND ADDITIONAL WORK REQUIRED. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS. REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.
4. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ELECTRICAL ITEMS INDICATED TO BE REMOVED AND ITEMS MADE OBSOLETE BY THE WORK. DISCONNECT AND REMOVE ALL FIXTURES, WIRING DEVICES, CONDUIT AND FITTINGS, WIRING AND CABLE, FIRE ALARM DEVICES/COMPONENTS, HANGERS, SUPPORTS, WIREWAYS, AND ALL OTHER ELECTRICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT. THE OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS AND REMOVED EQUIPMENT TO BE TURNED OVER TO THE OWNER. ALL OTHER MATERIAL AND REMOVED EQUIPMENT NOT BEING SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. PLACE ALL DEMOLISHED ELECTRICAL MATERIALS EXCEPT HAZARDOUS MATERIALS (PCB LIGHTING BALLASTS, FLUORESCENT LAMPS, ETC.) AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION IN GENERAL CONTRACTOR'S DUMPSTER. ALL HAZARDOUS ELECTRICAL MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE ELECTRICAL SUBCONTRACTOR.
5. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
6. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANELS AS APPROPRIATE. TEMPORARY WALL OPENINGS AND/OR MODIFICATIONS REQUIRED FOR REMOVAL/INSTALLATION OF EQUIPMENT SHALL BE PROVIDED AS NEEDED AND COORDINATED WITH THE GENERAL CONTRACTOR. ALL HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT SCHEDULED TO BE REMOVED OR RELOCATED SHALL BE DONE SO BY THE HVAC AND PLUMBING CONTRACTOR RESPECTIVELY. THE ELECTRICAL CONTRACTOR SHALL REMOVE STARTERS, DISCONNECT SWITCHES, WIRING, AND CONDUIT FOR SAID EQUIPMENT. REFER TO HVAC AND PLUMBING DRAWINGS FOR SCOPE OF WORK.
7. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
8. EXISTING FIRE ALARM SYSTEM: MAINTAIN THE EXISTING SYSTEM IN SERVICE UNTIL THE MODIFIED/EXPANDED SYSTEM IS TESTED AND ACCEPTED BY THE FIRE DEPARTMENT. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND LOCAL FIRE DEPARTMENT AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED OR PROVIDE A "FIRE-WATCH" SYSTEM COORDINATED WITH THE LOCAL FIRE DEPARTMENT.
9. EXTEND EXISTING ELECTRICAL INSTALLATIONS AS CALLED FOR ON THE DRAWINGS.
10. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
11. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
12. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
13. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
14. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
15. DISCONNECT AND REMOVE ABANDONED LIGHTING FIXTURES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
16. DISCONNECT AND REMOVE OTHER SYSTEMS AND EQUIPMENT WITHIN THE WORK AREA MADE OBSOLETE BY THIS WORK.
17. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, LIGHT FIXTURES, ETC. WHICH ARE TO REMAIN AND TO PREVENT DAMAGE DURING ALL CONSTRUCTION PHASES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROTECT THE ELECTRICAL WORK AND THE WORK OF OTHERS IN A MANNER BEST SUITED TO THE PARTICULAR CASE. CORRECT ANY DAMAGE DONE TO ANY WORK AT NO ADDITIONAL COST.
18. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
19. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.
20. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.
21. LIGHTING FIXTURES: EXISTING LIGHTING FIXTURES SCHEDULED FOR REUSE SHALL BE REMOVED FOR CLEANING. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS, BALLASTS AND BROKEN ELECTRICAL PARTS.
22. EXISTING ELECTRICAL EQUIPMENT AND WIRING NOT SHOWN ON DOCUMENTS OR ADDRESSED BY NOTES ABOVE SHALL BE CONSIDERED EXISTING TO REMAIN.

CIRCUIT TRACING NOTE

ELECTRICAL CONTRACTOR SHALL UPDATE ALL EXISTING PANELBOARD DIRECTORIES TO REFLECT ALL CIRCUITS MADE SPARE FROM DEMOLITION. ALL EXISTING CIRCUIT BREAKERS IN ALL EXISTING PANELBOARDS SHOWN ON THE DRAWINGS SHALL BE TRACED OUT AND LABELED IN PANELBOARD OF ORIGIN. ALL CIRCUITS THAT ARE NO LONGER IN USE SHALL BE PULLED BACK TO PANEL OF ORIGIN. ALL CIRCUIT BREAKERS NOT BEING UTILIZED SHALL BE LABELED AS SPARE AND PUT IN THE OPEN (OFF) POSITION.

ELECTRICAL SHEET LIST

Certification

STEVEN COSTA
STATE OF RHODE ISLAND
No. 7813
HOPE
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)
04/10/2025

Drawn by JC
Checked by SC

Revised on

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Project

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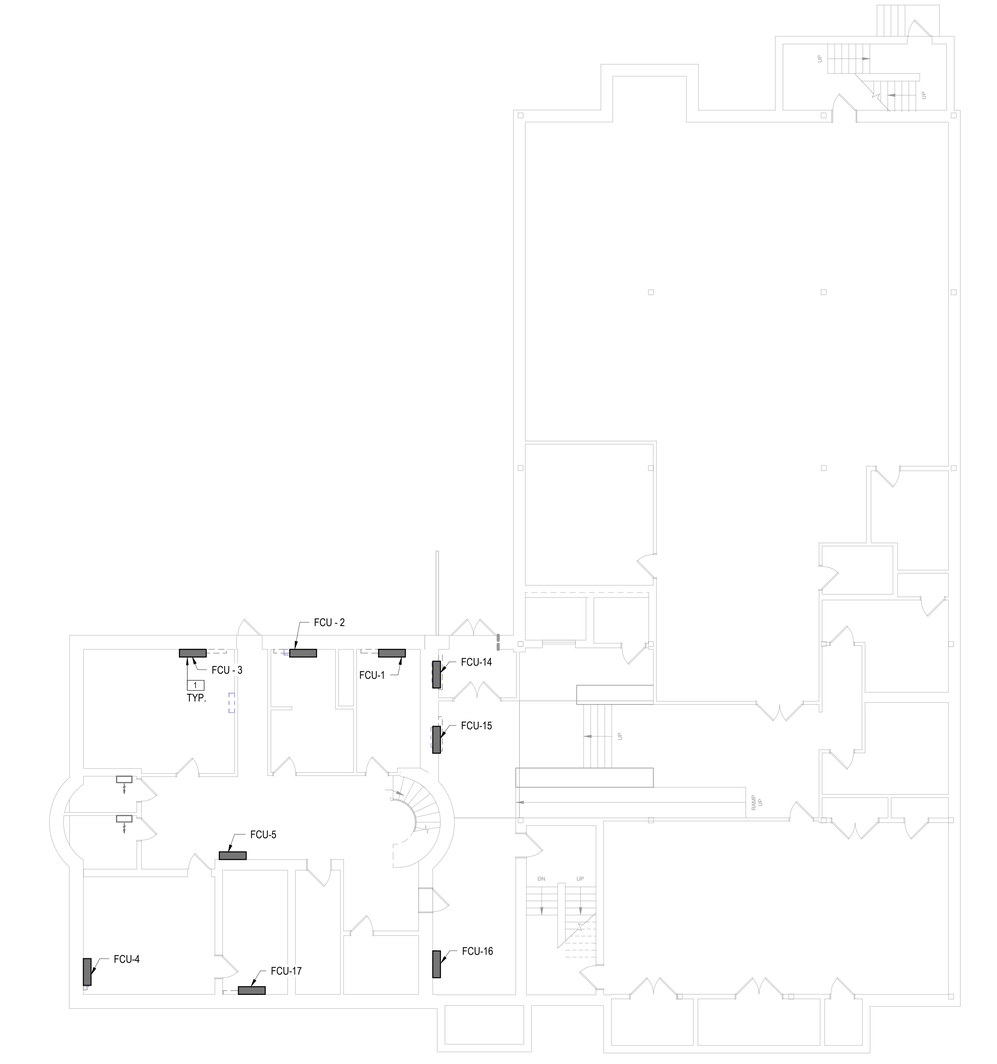
Sheet Contents
ELECTRICAL LEGEND & ABBREVIATIONS

Project Number. 6846

Drawing No. E000

Sheet of



1 E101 ELECTRICAL - DEMOLITION - FIRST FLOOR
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH

GENERAL DEMOLITION SHEET NOTES

1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. WHERE DOWNSTREAM FIXTURE OR DEVICES ARE AFFECTED BY THE BRANCH CIRCUIT WIRING DEMOLITION WORK, THIS CONTRACTOR SHALL PROVIDE NEW SERVICES AS REQUIRED TO MAINTAIN SUCH DOWNSTREAM DEVICES.
3. IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL FIXTURES AND DEVICES TO BE DISCONNECTED AND/OR REMOVED. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE EXACT QUANTITY AND TYPES OF EQUIPMENT TO BE REMOVED.
4. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING CONSTRUCTION. WHERE CEILING AND WALLS ARE REMOVED, ABANDONED WIRING SHALL BE REMOVED, AND ENDS OF LIVE SERVICES TO BE DISCONNECTED AND CUT-OFF.
7. ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
8. DEMOLITION DRAWINGS HAVE BEEN COMPILED FROM EXISTING DRAWINGS FURNISHED BY THE OWNER SOLELY FOR THE PURPOSE OF AIDING THE CONTRACTOR IN UNDERSTANDING THE REQUIRED PROJECT DEMOLITION AND PHASING AND THESE DRAWINGS DO NOT REFLECT ALL EQUIPMENT, DEVICES, AND MATERIALS TO BE REMOVED AND/OR RELOCATED.
9. E.C. SHALL TRACE AND TAG ALL EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUIT WIRING SERVING ALL EQUIPMENT AND DEVICES TO BE REMOVED TO ALLOW FOR RE-USE UNDER THE NEW SCOPE OF WORK. WHERE CIRCUITS ARE FOUND TO BE SHARED WITH EQUIPMENT AND DEVICES TO REMAIN, THE FULL LOAD OF THE CIRCUIT SHALL BE METERED IN ORDER TO DETERMINE REMAINING CAPACITY.
10. EXISTING DEVICES IN WORK AREA THAT ARE SCHEDULED TO REMAIN ARE TO BE CHANGED OUT TO MATCH NEW WHITE FINISH DEVICES AND COVER PLATES.

EXISTING ELECTRICAL EQUIPMENT LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

EXISTING ELECTRICAL EQUIPMENT WITHOUT A DESIGNATION IS TO REMAIN.

"XE" INDICATES EXISTING ELECTRICAL EQUIPMENT WHICH IS TO BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.

"XR" INDICATES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED TO NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.

"XN" INDICATES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.

"XD" INDICATES EXISTING EQUIPMENT/DEVICE TO REMAIN. EXISTING CIRCUIT/ WIRING SHALL BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE. ALL HVAC/PLUMBING INTERLOCKING WIRING SHALL REMAIN. REFER TO RENOVATION PLANS FOR NEW CIRCUIT INFORMATION.

"XW" INDICATES EXISTING EQUIPMENT/DEVICE TO BE REMOVED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE. EXTEND CIRCUIT/WIRING TO NEW ELECTRICAL EQUIPMENT/DEVICE.

GENERAL NOTES:

1. DOTTED SYMBOLS INDICATE EXISTING ELECTRICAL EQUIPMENT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE REMAINING.

KEYED NOTES - E101

NUMBER	DESCRIPTION
1	ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MECHANICAL EQUIPMENT, INTERCEPT EXISTING BRANCH CIRCUIT, JUNCTION AND EXTEND TO SERVICE NEW EQUIPMENT GOING IN ITS' PLACE.

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

04/10/2025

Drawn by JC

Checked by SC

Revised on

CEC Project: 20241248

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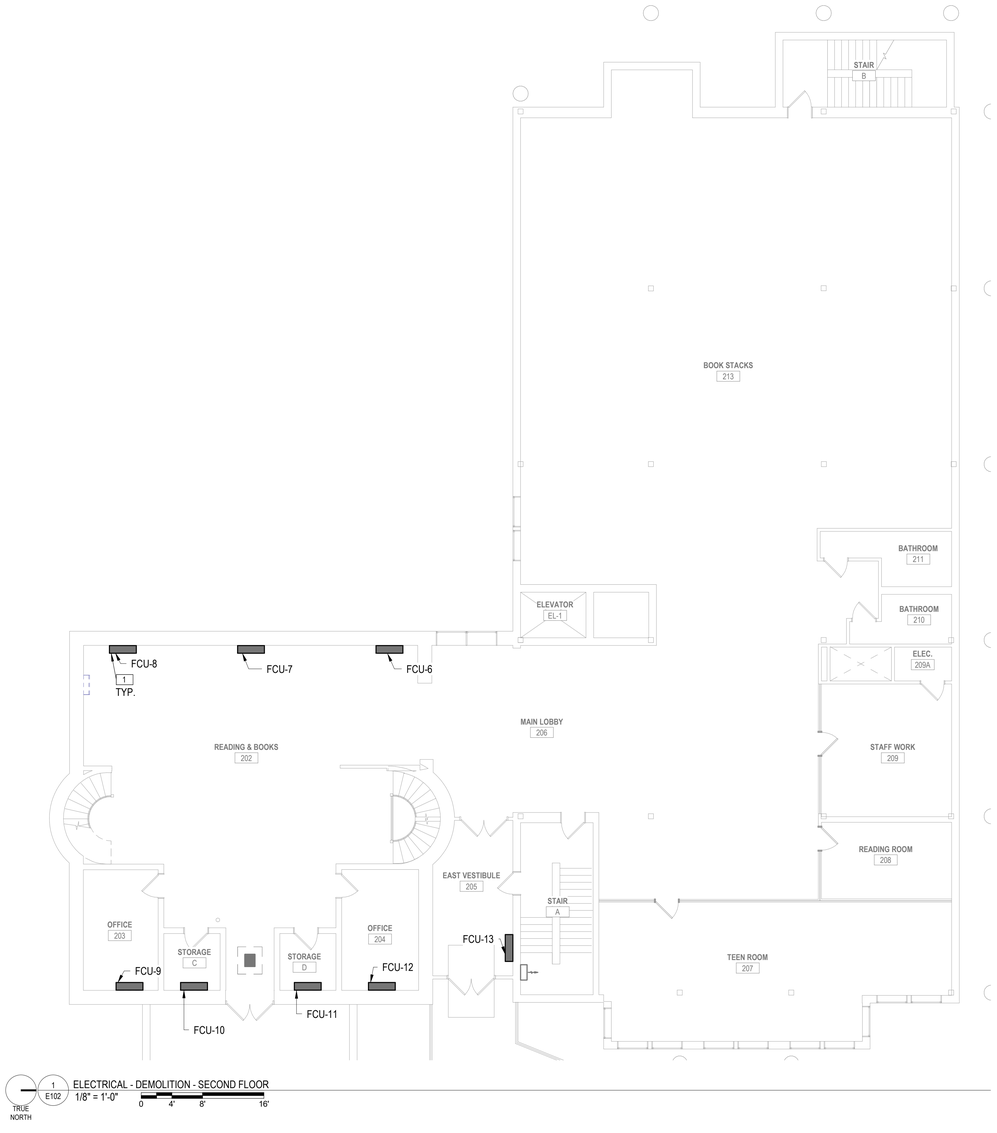
Sheet Contents
ELECTRICAL - DEMOLITION - FIRST FLOOR

Project Number. 6846

Drawing No.
E101

Sheet of



GENERAL DEMOLITION SHEET NOTES

1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. WHERE DOWNSTREAM FIXTURE OR DEVICES ARE AFFECTED BY THE BRANCH CIRCUIT WIRING DEMOLITION WORK, THIS CONTRACTOR SHALL PROVIDE NEW SERVICES AS REQUIRED TO MAINTAIN SUCH DOWNSTREAM DEVICES.
3. IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL FIXTURES AND DEVICES TO BE DISCONNECTED AND/OR REMOVED. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE EXACT QUANTITY AND TYPES OF EQUIPMENT TO BE REMOVED.
4. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING CONSTRUCTION. WHERE CEILING AND WALLS ARE REMOVED, ABANDONED WIRING SHALL BE REMOVED, AND ENDS OF LIVE SERVICES TO BE DISCONNECTED AND CUT-OFF.
7. ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
8. DEMOLITION DRAWINGS HAVE BEEN COMPILED FROM EXISTING DRAWINGS FURNISHED BY THE OWNER SOLELY FOR THE PURPOSE OF AIDING THE CONTRACTOR IN UNDERSTANDING THE REQUIRED PROJECT DEMOLITION AND PHASING AND THESE DRAWINGS DO NOT REFLECT ALL EQUIPMENT, DEVICES, AND MATERIALS TO BE REMOVED AND/OR RELOCATED.
9. E.C. SHALL TRACE AND TAG ALL EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUIT WIRING SERVING ALL EQUIPMENT AND DEVICES TO BE REMOVED TO ALLOW FOR RE-USE UNDER THE NEW SCOPE OF WORK. WHERE CIRCUITS ARE FOUND TO BE SHARED WITH EQUIPMENT AND DEVICES TO REMAIN, THE FULL LOAD OF THE CIRCUIT SHALL BE METERED IN ORDER TO DETERMINE REMAINING CAPACITY.
10. EXISTING DEVICES IN WORK AREA THAT ARE SCHEDULED TO REMAIN ARE TO BE CHANGED OUT TO MATCH NEW WHITE FINISH DEVICES AND COVER PLATES.

EXISTING ELECTRICAL EQUIPMENT LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

F	EXISTING ELECTRICAL EQUIPMENT WITHOUT A DESIGNATION IS TO REMAIN.
XE / F	"XE" INDICATES EXISTING ELECTRICAL EQUIPMENT WHICH IS TO BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.
XR / F	"XR" INDICATES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED TO NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
XN / F	"XN" INDICATES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
XD / F	"XD" INDICATES EXISTING EQUIPMENT/DEVICE TO REMAIN. EXISTING CIRCUIT/ WIRING SHALL BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE. ALL HVAC/PLUMBING INTERLOCKING WIRING SHALL REMAIN. REFER TO RENOVATION PLANS FOR NEW CIRCUIT INFORMATION.
XW / F	"XW" INDICATES EXISTING EQUIPMENT/DEVICE TO BE REMOVED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE. EXTEND CIRCUIT/WIRING TO NEW ELECTRICAL EQUIPMENT/DEVICE.

GENERAL NOTES:

1. DOTTED SYMBOLS INDICATE EXISTING ELECTRICAL EQUIPMENT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE REMAINING.

KEYED NOTES - E102

NUMBER	DESCRIPTION
1	ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MECHANICAL EQUIPMENT, INTERCEPT EXISTING BRANCH CIRCUIT, JUNCTION AND EXTEND TO SERVICE NEW EQUIPMENT GOING IN ITS' PLACE.

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

04/10/2025

Drawn by JC

Checked by SC

Revised on

CEC Project: 20241248

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ELECTRICAL - DEMOLITION - SECOND FLOOR

Project Number. 6846

Drawing No.

E102

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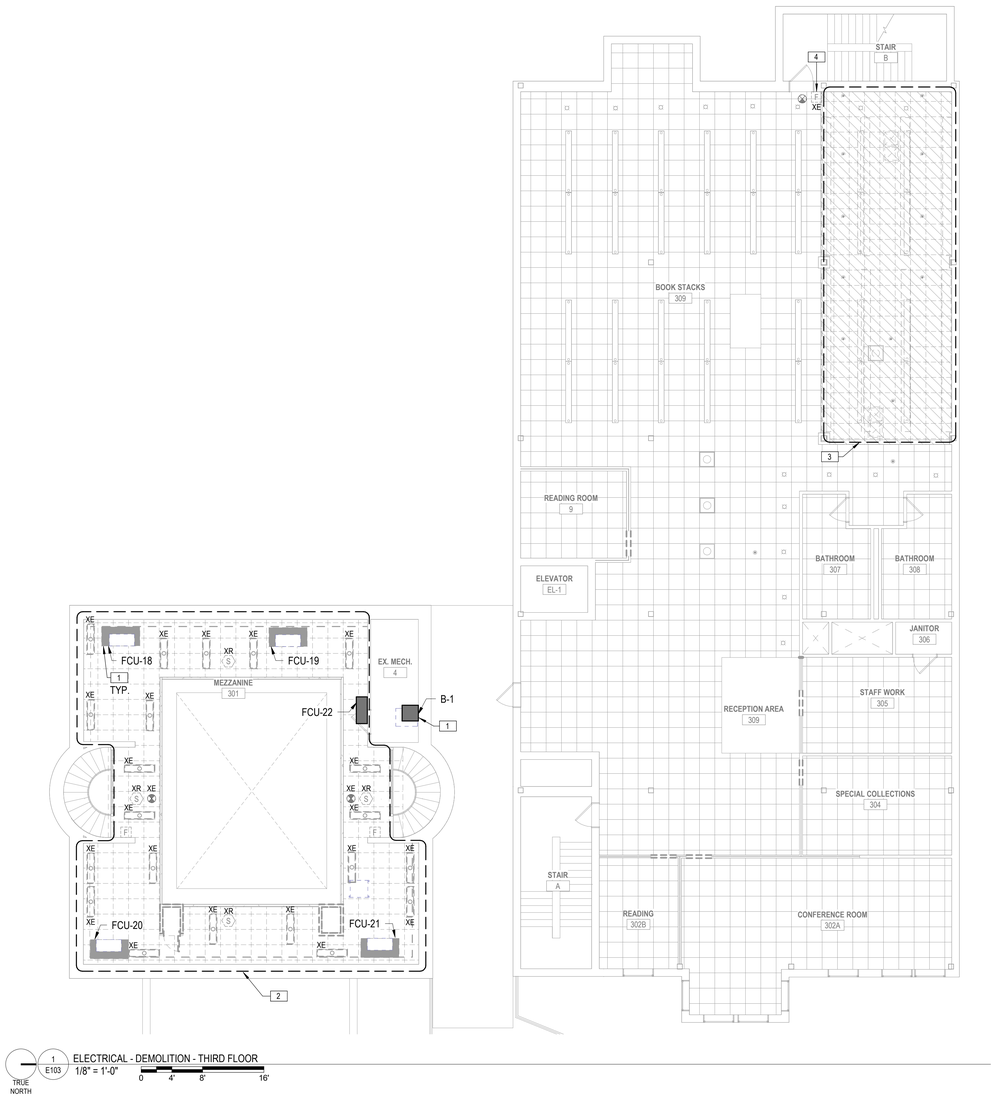

1 E103 ELECTRICAL - DEMOLITION - THIRD FLOOR

1/8" = 1'-0"

0 4' 8' 16'

TRUE NORTH

GENERAL DEMOLITION SHEET NOTES

1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. WHERE DOWNSTREAM FIXTURE OR DEVICES ARE AFFECTED BY THE BRANCH CIRCUIT WIRING DEMOLITION WORK, THIS CONTRACTOR SHALL PROVIDE NEW SERVICES AS REQUIRED TO MAINTAIN SUCH DOWNSTREAM DEVICES.
3. IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL FIXTURES AND DEVICES TO BE DISCONNECTED AND/OR REMOVED. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE EXACT QUANTITY AND TYPES OF EQUIPMENT TO BE REMOVED.
4. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING CONSTRUCTION. WHERE CEILING AND WALLS ARE REMOVED, ABANDONED WIRING SHALL BE REMOVED, AND ENDS OF LIVE SERVICES TO BE DISCONNECTED AND CUT-OFF.
7. ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
8. DEMOLITION DRAWINGS HAVE BEEN COMPILED FROM EXISTING DRAWINGS FURNISHED BY THE OWNER SOLELY FOR THE PURPOSE OF AIDING THE CONTRACTOR IN UNDERSTANDING THE REQUIRED PROJECT DEMOLITION AND PHASING AND THESE DRAWINGS DO NOT REFLECT ALL EQUIPMENT, DEVICES, AND MATERIALS TO BE REMOVED AND/OR RELOCATED.
9. E.C. SHALL TRACE AND TAG ALL EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUIT WIRING SERVING ALL EQUIPMENT AND DEVICES TO BE REMOVED TO ALLOW FOR RE-USE UNDER THE NEW SCOPE OF WORK. WHERE CIRCUITS ARE FOUND TO BE SHARED WITH EQUIPMENT AND DEVICES TO REMAIN, THE FULL LOAD OF THE CIRCUIT SHALL BE METERED IN ORDER TO DETERMINE REMAINING CAPACITY.
10. EXISTING DEVICES IN WORK AREA THAT ARE SCHEDULED TO REMAIN ARE TO BE CHANGED OUT TO MATCH NEW WHITE FINISH DEVICES AND COVER PLATES.

EXISTING ELECTRICAL EQUIPMENT LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- EXISTING ELECTRICAL EQUIPMENT WITHOUT A DESIGNATION IS TO REMAIN.
- "XE" INDICATES EXISTING ELECTRICAL EQUIPMENT WHICH IS TO BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.
- "XR" INDICATES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED TO NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
- "XN" INDICATES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
- "XD" INDICATES EXISTING EQUIPMENT/DEVICE TO REMAIN. EXISTING CIRCUIT/ WIRING SHALL BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE. ALL HVAC/PLUMBING INTERLOCKING WIRING SHALL REMAIN. REFER TO RENOVATION PLANS FOR NEW CIRCUIT INFORMATION.
- "XW" INDICATES EXISTING EQUIPMENT/DEVICE TO BE REMOVED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE. EXTEND CIRCUIT/WIRING TO NEW ELECTRICAL EQUIPMENT/DEVICE.

GENERAL NOTES:

1. DOTTED SYMBOLS INDICATE EXISTING ELECTRICAL EQUIPMENT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE REMAINING.

KEYED NOTES - E103

NUMBER	DESCRIPTION
1	ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MECHANICAL EQUIPMENT, INTERCEPT EXISTING BRANCH CIRCUIT, JUNCTION AND EXTEND TO SERVICE NEW EQUIPMENT GOING IN ITS' PLACE.
2	SCOPE OF WORK FOR STUDY SPACE.
3	SCOPE OF WORK FOR MAKERS SPACE. REMOVE AND MAKE SAFE ALL ELECTRICAL DEVICES IN THIS AREA, INCLUDING LIGHTING, POWER, AND FIRE ALARM DEVICES.
4	EXISTING FIRE ALARM DEVICE SHALL BE REMOVED FOR NEW CONSTRUCTION. REPAIR AND PATCH EXISTING WALL TO MATCH EXISTING AND PREPARE FOR NEW FIRE ALARM DEVICE INSTALLATION. SEE E403 FOR NEW LOCATION.

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

04/10/2025

Drawn by JC

Checked by SC

Revised on

CEC Project: 20241248

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ELECTRICAL - DEMOLITION - THIRD FLOOR

Project Number. 6846

Drawing No.

E103

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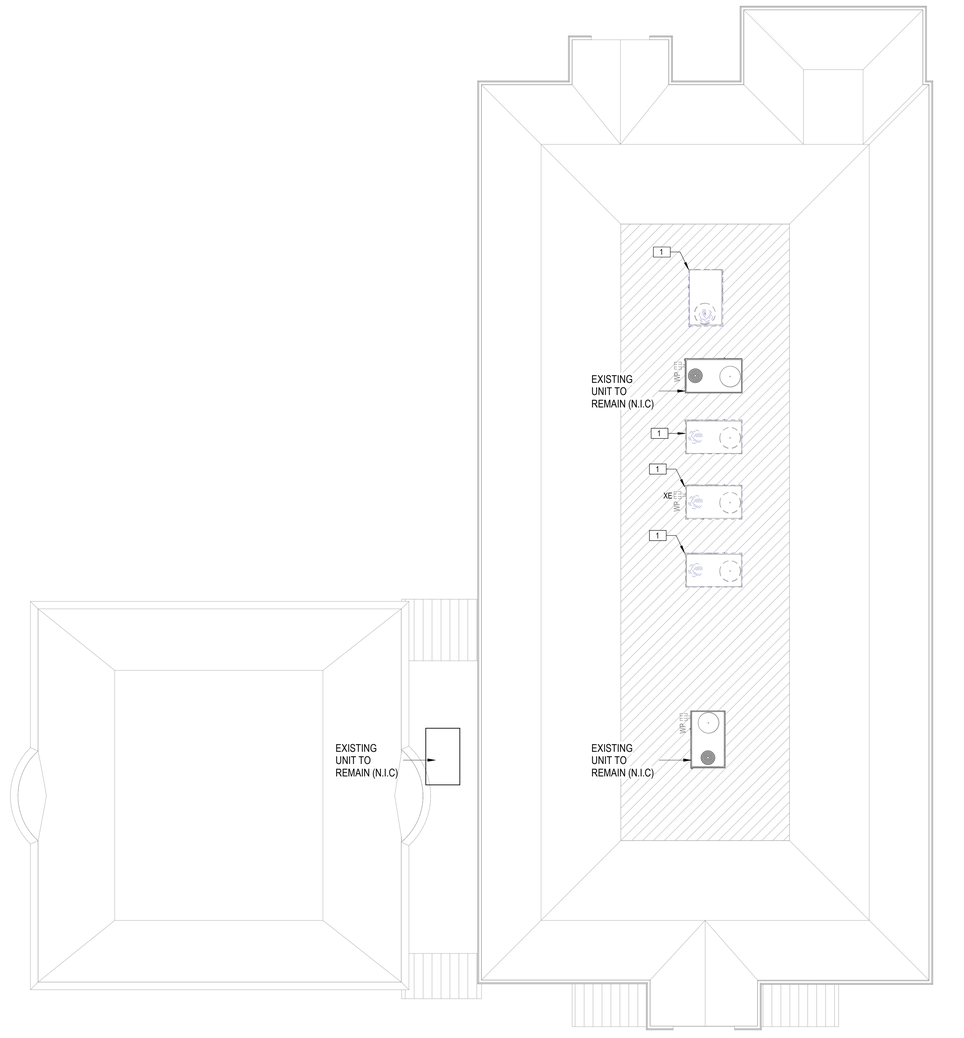

1 E104 ELECTRICAL - DEMOLITION - ROOF
1/8" = 1'-0"

TRUE NORTH

GENERAL DEMOLITION SHEET NOTES

1. REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. WHERE DOWNSTREAM FIXTURE OR DEVICES ARE AFFECTED BY THE BRANCH CIRCUIT WIRING DEMOLITION WORK, THIS CONTRACTOR SHALL PROVIDE NEW SERVICES AS REQUIRED TO MAINTAIN SUCH DOWNSTREAM DEVICES.
3. IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL FIXTURES AND DEVICES TO BE DISCONNECTED AND/OR REMOVED. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE EXACT QUANTITY AND TYPES OF EQUIPMENT TO BE REMOVED.
4. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
5. ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
6. REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING CONSTRUCTION. WHERE CEILING AND WALLS ARE REMOVED, ABANDONED WIRING SHALL BE REMOVED, AND ENDS OF LIVE SERVICES TO BE DISCONNECTED AND CUT-OFF.
7. ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
8. DEMOLITION DRAWINGS HAVE BEEN COMPILED FROM EXISTING DRAWINGS FURNISHED BY THE OWNER SOLELY FOR THE PURPOSE OF AIDING THE CONTRACTOR IN UNDERSTANDING THE REQUIRED PROJECT DEMOLITION AND PHASING AND THESE DRAWINGS DO NOT REFLECT ALL EQUIPMENT, DEVICES, AND MATERIALS TO BE REMOVED AND/OR RELOCATED.
9. E.C. SHALL TRACE AND TAG ALL EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUIT WIRING SERVING ALL EQUIPMENT AND DEVICES TO BE REMOVED TO ALLOW FOR RE-USE UNDER THE NEW SCOPE OF WORK. WHERE CIRCUITS ARE FOUND TO BE SHARED WITH EQUIPMENT AND DEVICES TO REMAIN, THE FULL LOAD OF THE CIRCUIT SHALL BE METERED IN ORDER TO DETERMINE REMAINING CAPACITY.
10. EXISTING DEVICES IN WORK AREA THAT ARE SCHEDULED TO REMAIN ARE TO BE CHANGED OUT TO MATCH NEW WHITE FINISH DEVICES AND COVER PLATES.

EXISTING ELECTRICAL EQUIPMENT LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

- EXISTING ELECTRICAL EQUIPMENT WITHOUT A DESIGNATION IS TO REMAIN.
- "XE" INDICATES EXISTING ELECTRICAL EQUIPMENT WHICH IS TO BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.
- "XR" INDICATES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED TO NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
- "XN" INDICATES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
- "XD" INDICATES EXISTING EQUIPMENT/DEVICE TO REMAIN. EXISTING CIRCUIT/ WIRING SHALL BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE. ALL HVAC/PLUMBING INTERLOCKING WIRING SHALL REMAIN. REFER TO RENOVATION PLANS FOR NEW CIRCUIT INFORMATION.
- "XW" INDICATES EXISTING EQUIPMENT/DEVICE TO BE REMOVED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE. EXTEND CIRCUIT/WIRING TO NEW ELECTRICAL EQUIPMENT/DEVICE.

GENERAL NOTES:

1. DOTTED SYMBOLS INDICATE EXISTING ELECTRICAL EQUIPMENT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE REMAINING.

KEYED NOTES - E104

NUMBER	DESCRIPTION
1	ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING MECHANICAL EQUIPMENT. INTERCEPT EXISTING BRANCH CIRCUIT, JUNCTION AND EXTEND TO SERVICE NEW EQUIPMENT GOING IN ITS PLACE. EXISTING MAINTENANCE WP. GFCI RECEPTACLES ARE TO BE REPLACED WITH NEW.

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

04/10/2025

Drawn by JC

Checked by SC

Revised on

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ELECTRICAL - DEMOLITION - ROOF

Project Number. 6846

Drawing No.

E104

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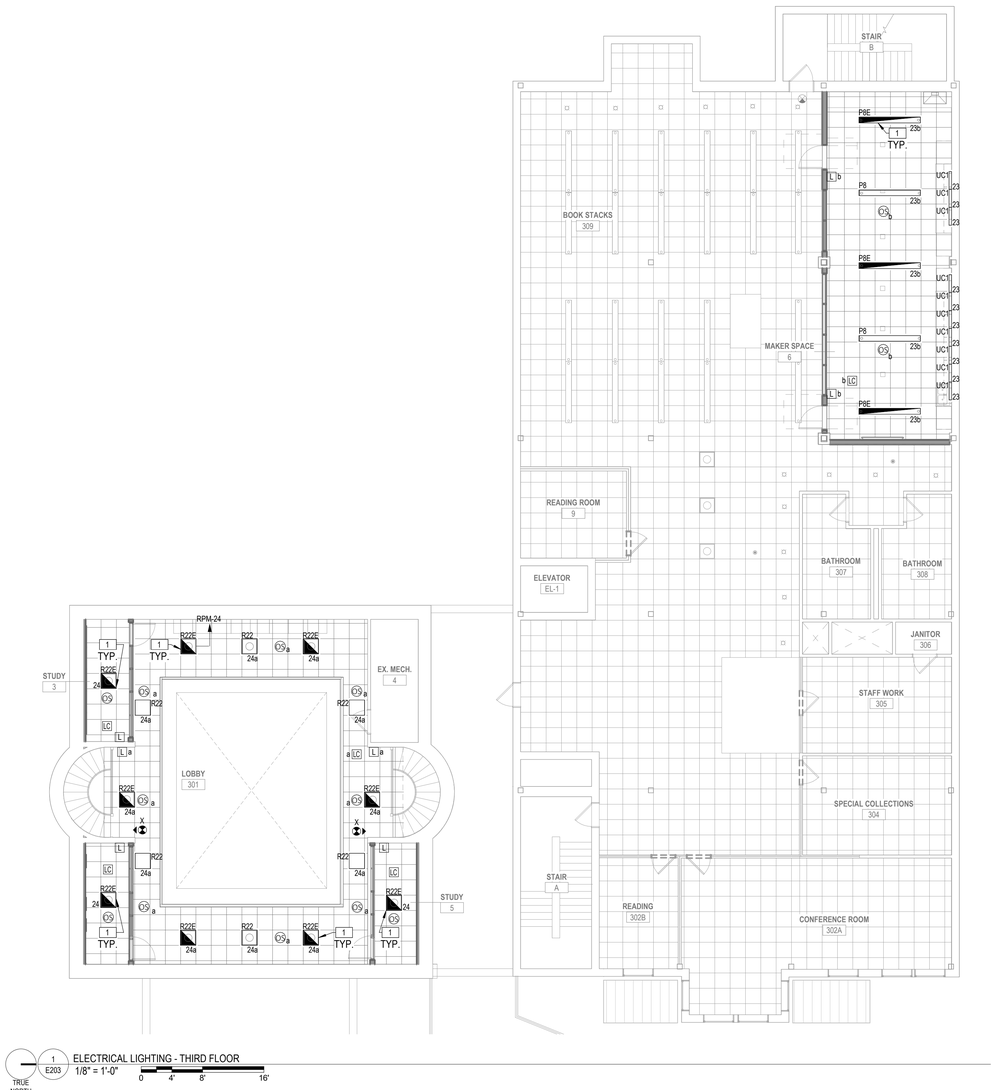

GENERAL LIGHTING SHEET NOTES

1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS, AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
4. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
5. LOCATIONS OF ALL SWITCHES SHALL COMPLY WITH ADA CRITERIA.
6. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED WALLS AND PROVIDE PROPER METHOD OF PENETRATION FOR EACH.

KEYED NOTES - E203

NUMBER	DESCRIPTION
1	E.C. SHALL CONNECT NEW LIGHTING IN THIS AREA TO EXISTING BRANCH CIRCUITING SERVING THE SPACE.

Certification

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No. 7813
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(ELECTRICAL)

04/10/2025

Drawn by JC

Checked by SC

Revised on

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ELECTRICAL LIGHTING - THIRD FLOOR

Project Number. 6846

Drawing No.

E203

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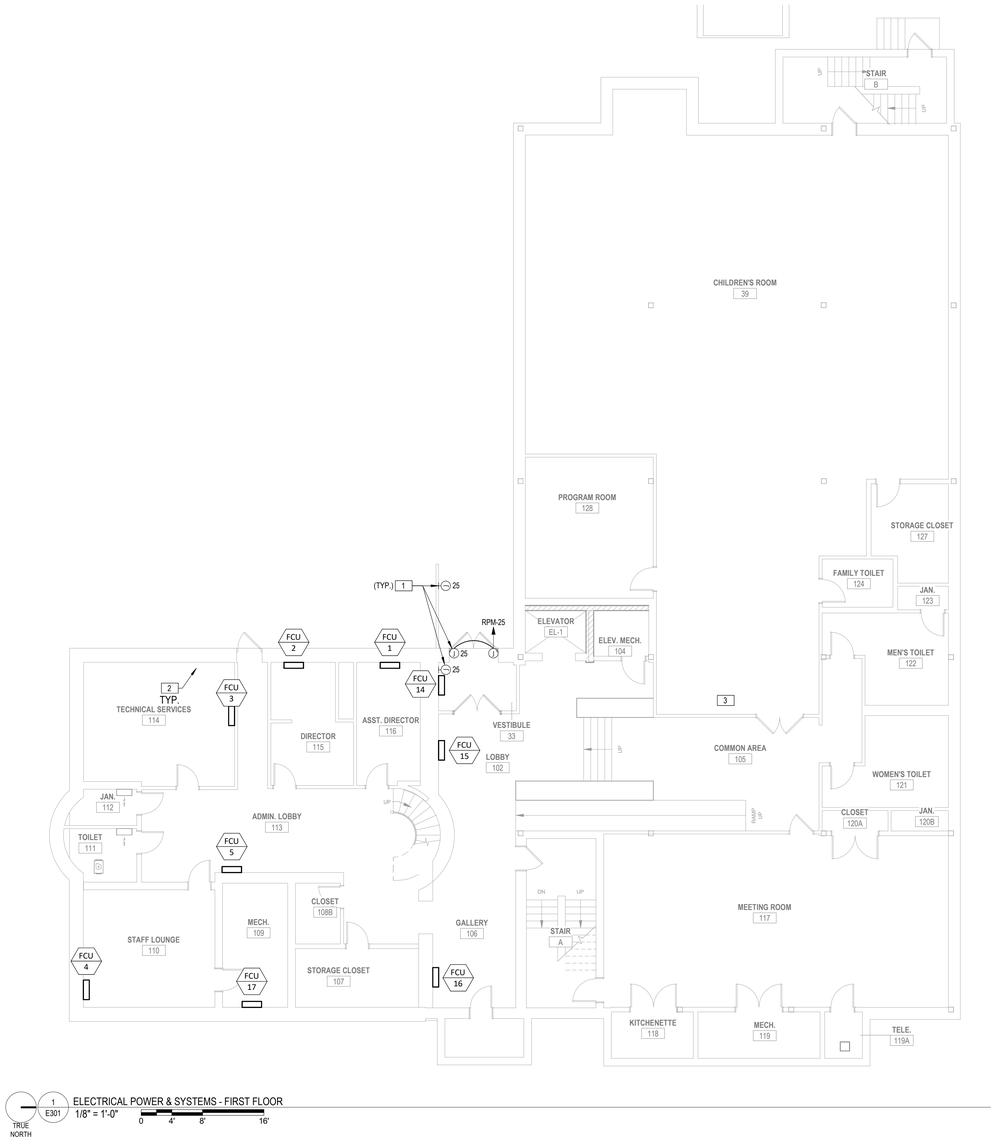

1 E301 ELECTRICAL POWER & SYSTEMS - FIRST FLOOR
1/8" = 1'-0"
0 4' 8' 16'
TRUE NORTH

MECHANICAL CONNECTION SCHEDULE TAG

XXX
XX

REFER TO "ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT" IN THIS DRAWING SET FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISCONNECT SWITCH AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS.

GENERAL POWER & SYSTEMS SHEET NOTES

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF ALL DEVICES.
3. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
4. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRUCIT NUMBERS AND PANEL DESIGNATIONS.
5. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
6. REFER TO ARCHITECTURAL DWG A8 FOR ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
7. COORDINATE MOUNTING HEIGHT OF ALL TECHNOLOGY DEVICES WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED WALLS AND PROVIDE PROPER METHOD OF PENETRATION FOR EACH.
9. ALL NEW DEVICES AND COVER PLATES ARE TO BE WHITE AND ALL EXISTING DEVICES AND COVER PLATES TO BE CHANGED TO WHITE TO MATCH NEW WHITE DEVICES.

KEYED NOTES - E301

NUMBER	DESCRIPTION
1	PROPOSED LOCATION FOR ADA DOOR PUSH PLATE. EC SHALL PROVIDE ALL REQUIRED POWER CONNECTIONS AND INTERCONNECTING WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM. EC SHALL COORDINATE WITH ARCHITECT & VENDOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
2	NEW MECHANICAL EQUIPMENT FURNISHED AND INSTALLED BY OTHER TRADES AND WIRED BY THE ELECTRICAL CONTRACTOR.
3	E.C SHALL INSTALL NEW PANIC BUTTON AND TIE INTO EXISTING SECURITY SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. VERIFY REQUIREMENTS WITH VENDOR PRIOR TO ORDERING/ROUGH-IN.

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

04/10/2025

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Sheet Contents

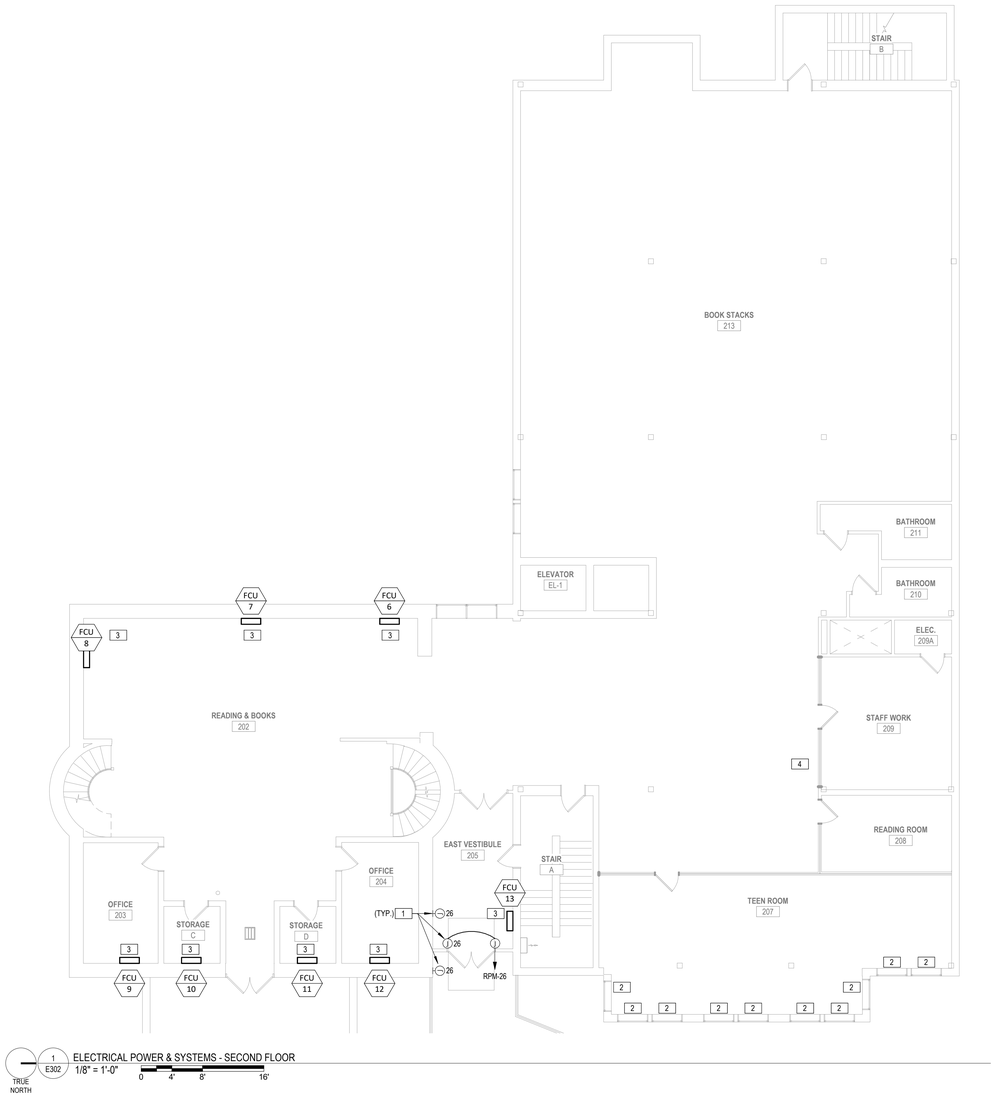
ELECTRICAL POWER & SYSTEMS - FIRST FLOOR

Project Number. 6846

Drawing No.

E301

Sheet of



ELECTRICAL POWER & SYSTEMS - SECOND FLOOR

MECHANICAL CONNECTION SCHEDULE TAG

XXX
XX

REFER TO "ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT" IN THIS DRAWING SET FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISCONNECT SWITCH AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS.

GENERAL POWER & SYSTEMS SHEET NOTES

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF ALL DEVICES.
3. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
4. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRUCIT NUMBERS AND PANEL DESIGNATIONS.
5. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
6. REFER TO ARCHITECTURAL DWG A8 FOR ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
7. COORDINATE MOUNTING HEIGHT OF ALL TECHNOLOGY DEVICES WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED WALLS AND PROVIDE PROPER METHOD OF PENETRATION FOR EACH.
9. ALL NEW DEVICES AND COVER PLATES ARE TO BE WHITE AND ALL EXISTING DEVICES AND COVER PLATES TO BE CHANGED TO WHITE TO MATCH NEW WHITE DEVICES.

KEYED NOTES - E302

NUMBER	DESCRIPTION
1	PROPOSED LOCATION FOR ADA DOOR PUSH PLATE. EC SHALL PROVIDE ALL REQUIRED POWER CONNECTIONS AND INTERCONNECTING WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM. EC SHALL COORDINATE WITH ARCHITECT & VENDOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
2	PROVIDE POWER FOR AUTOMATIC SHADE AND SHADE CONTROLLER(S) FOR WINDOW FOR A COMPLETE AND OPERATIONAL SYSTEM. CONFIRM EXACT REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
3	NEW MECHANICAL EQUIPMENT FURNISHED AND INSTALLED BY OTHER TRADES AND WIRED BY THE ELECTRICAL CONTRACTOR.
4	E.C SHALL INSTALL NEW PANIC BUTTON AT CIRCULATION DESK AND TIE INTO EXISTING SECURITY SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. VERIFY REQUIREMENTS WITH VENDOR PRIOR TO ORDERING/ROUGH-IN.

Certification

STEVEN COSTA
No. 7813
REGISTERED
PROFESSIONAL ENGINEER
(ELECTRICAL)

04/10/2025

Drawn by JC

Checked by SC

Revised on

CEC Project: 20241248

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Sheet Contents

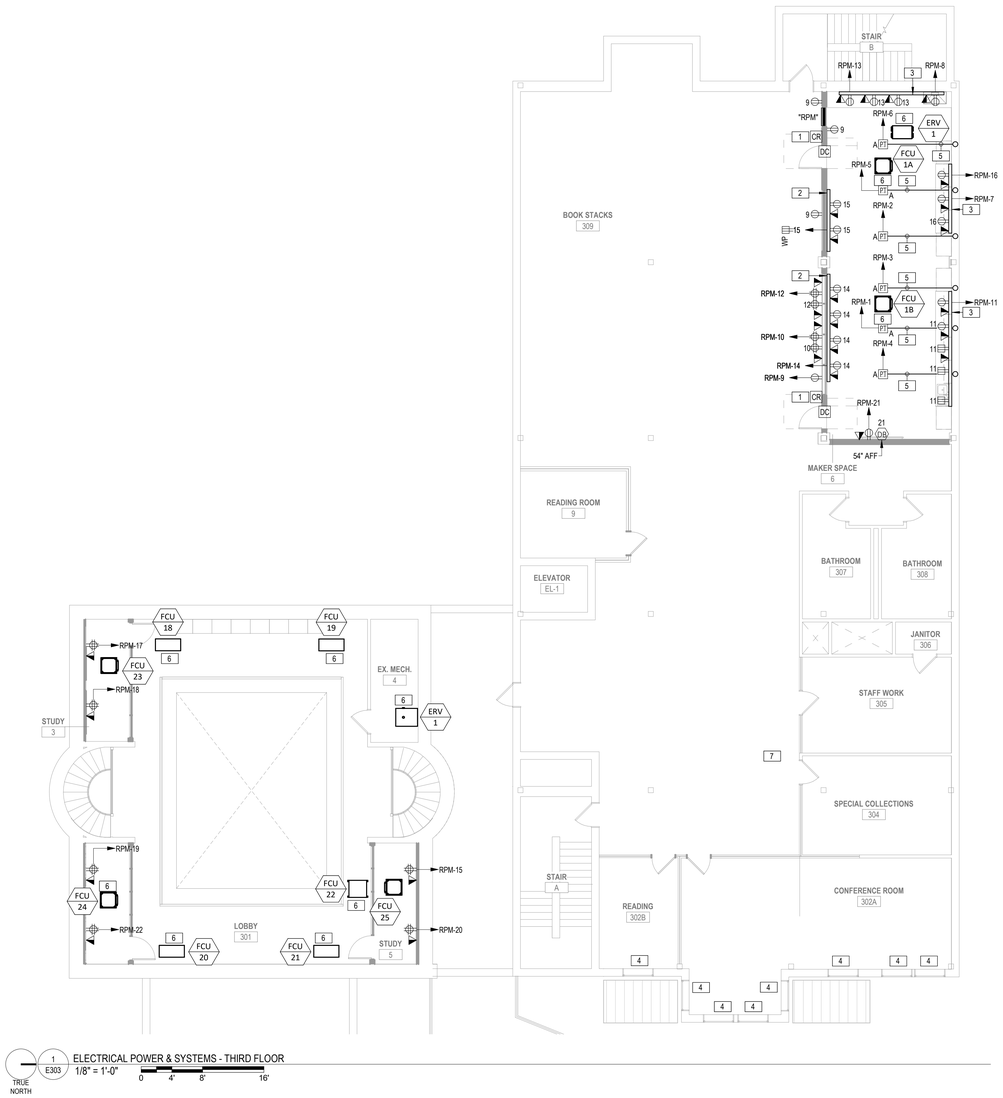
ELECTRICAL POWER & SYSTEMS - SECOND FLOOR

Project Number. 6846

Drawing No.

E302

Sheet of



1 E303 ELECTRICAL POWER & SYSTEMS - THIRD FLOOR

1/8" = 1'-0"

0 4' 8' 16'

TRUE NORTH

MECHANICAL CONNECTION SCHEDULE TAG

XXX
XX

REFER TO "ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT" IN THIS DRAWING SET FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISCONNECT SWITCH AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS.

GENERAL POWER & SYSTEMS SHEET NOTES

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF ALL DEVICES.
3. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
4. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRUCIT NUMBERS AND PANEL DESIGNATIONS.
5. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
6. REFER TO ARCHITECTURAL DWG A8 FOR ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
7. COORDINATE MOUNTING HEIGHT OF ALL TECHNOLOGY DEVICES WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED WALLS AND PROVIDE PROPER METHOD OF PENETRATION FOR EACH.
9. ALL NEW DEVICES AND COVER PLATES ARE TO BE WHITE AND ALL EXISTING DEVICES AND COVER PLATES TO BE CHANGED TO WHITE TO MATCH NEW WHITE DEVICES.

KEYED NOTES - E303

NUMBER	DESCRIPTION
1	PROPOSED LOCATION FOR SECURITY CARD READER. EC SHALL COORDINATE WITH ARCHITECT & SECURITY VENDOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
2	MOUNT LEGRAND DUAL CHANNEL WIRE MOLD 4000 SERIES RACEWAY BELOW WINDOW. PROVIDE ALL PARTS AND FITTINGS FOR A COMPLETE AND OPERATIONAL SYSTEM. AT MINIMUM PROVIDE 1" C FOR POWER AND 1-1/4" C FOR TEL/DATA. CONFIRM LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
3	MOUNT LEGRAND DUAL CHANNEL WIRE MOLD 4000 SERIES RACEWAY ABOVE COUNTER. PROVIDE ALL PARTS AND FITTINGS FOR A COMPLETE AND OPERATIONAL SYSTEM. AT MINIMUM PROVIDE 1" C FOR POWER AND 1-1/4" C FOR TEL/DATA. CONFIRM LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
4	PROVIDE POWER FOR AUTOMATIC SHADE AND SHADE CONTROLLER(S) FOR WINDOW FOR A COMPLETE AND OPERATIONAL SYSTEM. CONFIRM EXACT REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
5	E.C. SHALL RUN CONDUIT AND WIRING ON THE FLOOR BELOW UP TO THE NEAREST ACCESSIBLE CEILING ON FLOOR BELOW. PROVIDE 3/4"C FOR POWER & 1-1/4"C FOR TEL/DATA. REFER TO POKE-THRU SCHEDULE ON SHEET E700 FOR ADDITIONAL INFORMATION.
6	NEW MECHANICAL EQUIPMENT FURNISHED AND INSTALLED BY OTHER TRADES AND WIRED BY THE ELECTRICAL CONTRACTOR.
7	E.C SHALL INSTALL NEW PANIC BUTTON AT CIRCULATION DESK AND TIE INTO EXISTING SECURITY SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. VERIFY REQUIREMENTS WITH VENDOR PRIOR TO ORDERING/ROUGH-IN.

Certification

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04/10/2025

Drawn by JC

Checked by SC

Revised on

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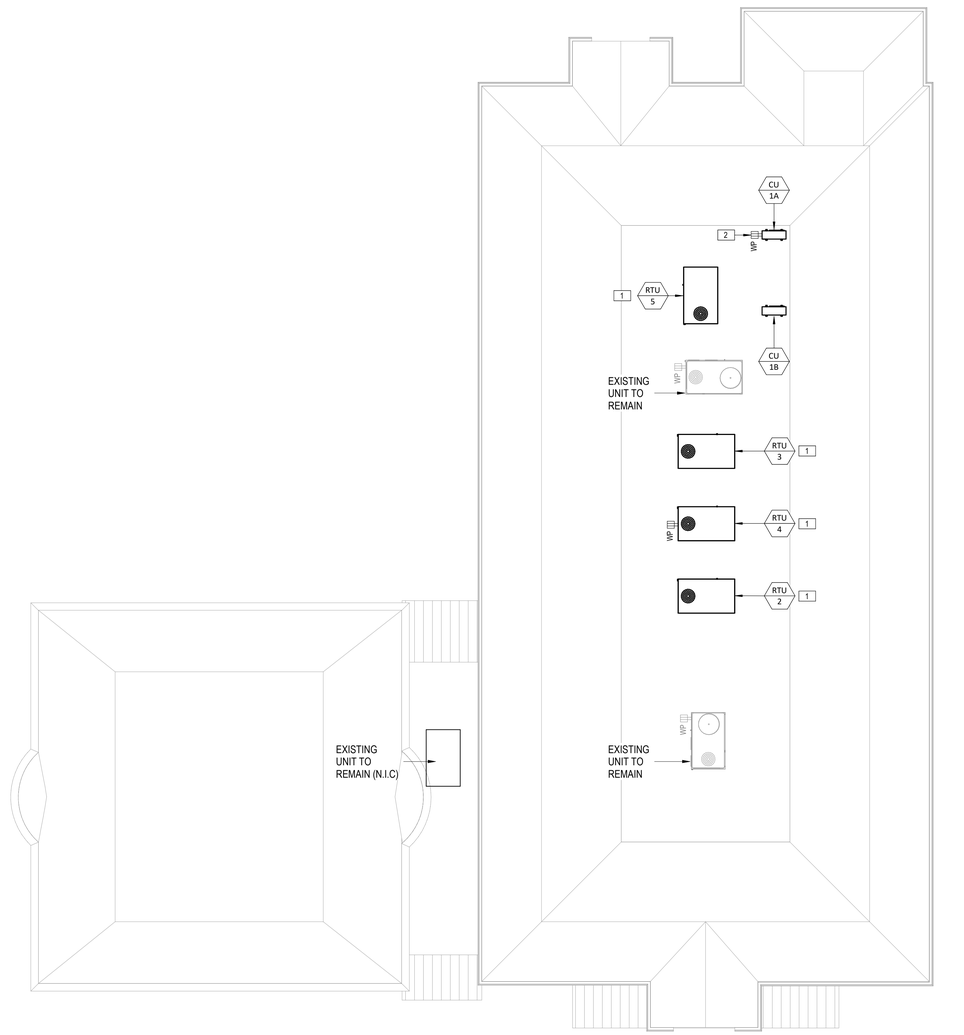
ELECTRICAL POWER & SYSTEMS - THIRD FLOOR

Project Number. 6846

Drawing No.

E303

Sheet of



1 / E304 ELECTRICAL POWER & SYSTEMS - ROOF
1/8" = 1'-0"

TRUE NORTH

MECHANICAL CONNECTION SCHEDULE TAG

XXX / XX — REFER TO "ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT" IN THIS DRAWING SET FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISCONNECT SWITCH AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS.

GENERAL POWER & SYSTEMS SHEET NOTES

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 98% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THWN/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF ALL DEVICES.
3. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
4. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRUCIT NUMBERS AND PANEL DESIGNATIONS.
5. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
6. REFER TO ARCHITECTURAL DWG A8 FOR ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
7. COORDINATE MOUNTING HEIGHT OF ALL TECHNOLOGY DEVICES WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED WALLS AND PROVIDE PROPER METHOD OF PENETRATION FOR EACH.
9. ALL NEW DEVICES AND COVER PLATES ARE TO BE WHITE AND ALL EXISTING DEVICES AND COVER PLATES TO BE CHANGED TO WHITE TO MATCH NEW WHITE DEVICES.

KEYED NOTES - E304

NUMBER	DESCRIPTION
1	NEW MECHANICAL EQUIPMENT FURNISHED AND INSTALLED BY OTHER TRADES AND WIRED BY THE ELECTRICAL CONTRACTOR. EXISTING MAINTENANCE WP, GFCI RECEPTACLES (NOT SHOWN) ARE TO BE REPLACED WITH NEW.
2	PROVIDE NEW AND WIRE TO ROOF RECEPTACLE CIRCUIT VIA 2#12, 1#12G, 3/4"C. (WP).

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Sheet Contents

ELECTRICAL POWER & SYSTEMS - ROOF

Project Number. 6846

Drawing No.

E304

Sheet of

GENERAL FIRE ALARM SHEET NOTES

1. E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
2. E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C.; INSTALLED BY HVAC.
3. PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL HORN/STROBE UNITS.
4. TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED & ALLOWED BY CODE.
5. TYPICALLY ALL HORN/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE HORN AND THE STROBE CAN BE SILENCED SIMULTANEOUSLY.
6. TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
7. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED WALLS AND PROVIDE PROPER METHOD OF PENETRATION FOR EACH.

EXISTING ELECTRICAL EQUIPMENT LEGEND

ALL ITEMS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

F	EXISTING ELECTRICAL EQUIPMENT WITHOUT A DESIGNATION IS TO REMAIN.
XE	"XE" INDICATES EXISTING ELECTRICAL EQUIPMENT WHICH IS TO BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.
XR	"XR" INDICATES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED TO NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
XN	"XN" INDICATES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL EQUIPMENT.
XD	"XD" INDICATES EXISTING EQUIPMENT/DEVICE TO REMAIN. EXISTING CIRCUIT/ WIRING SHALL BE REMOVED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE. ALL HVAC/PLUMBING INTERLOCKING WIRING SHALL REMAIN. REFER TO RENOVATION PLANS FOR NEW CIRCUIT INFORMATION.
XW	"XW" INDICATES EXISTING EQUIPMENT/DEVICE TO BE REMOVED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE. EXTEND CIRCUIT/WIRING TO NEW ELECTRICAL EQUIPMENT/DEVICE.

GENERAL NOTES:

1. DOTTED SYMBOLS INDICATE EXISTING ELECTRICAL EQUIPMENT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE REMAINING.

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Sheet Contents

ELECTRICAL FIRE ALARM - THIRD FLOOR

Project Number. 6846

Drawing No.

E403

Sheet of

BRANCH CIRCUIT PANELS SCHEDULE

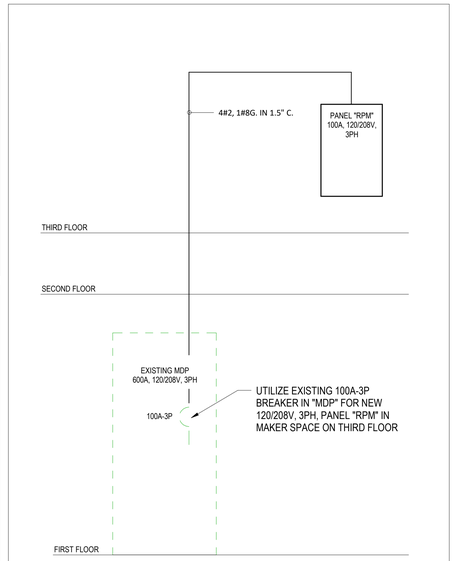
NOTES:
1. NOTES 2 AND 3 APPLY TO ALL PANEL BOARDS.
2. PROVIDE WITH LUGS TO ACCOMMODATE CONDUCTOR SIZES AS IDENTIFIED ON THE RISER DIAGRAM FOR SUPPLY AND ALL LOADS. (THIS NOTE APPLICABLE TO ALL TERMINATIONS.)
3. PANEL SHALL BE FULLY RATED UNLESS NOTE 5 REFERENCED IN THE NOTES SECTION.
4. NOTES 5-12 ARE OPTIONS WHICH SHALL BE SPECIFICALLY INDICATED IN NOTES SECTION FOR INCLUSION.
5. INTERRUPTING CAPABILITY BY UL LISTED SERIES RATED SYSTEM. PROVIDE NAMEPLATES IN ACCORDANCE WITH NEC REQUIREMENTS IDENTIFYING SERIES RATING APPLICATION.
6. PROVIDE WITH 120V SHUNT TRIP MAIN CIRCUIT BREAKER.
7. BRANCH GROUND FAULT CIRCUIT INTERRUPTER BREAKER RATED FOR 4-6 ma FOR PERSONAL PROTECTION; QTY. AND RATING IN PARENTHESIS. I.E.: 7 (4-20/1)
8. BRANCH GROUND FAULT EARTH LEAKAGE BREAKER RATED FOR 30 ma FOR EQUIPMENT PROTECTION; QTY. AND RATING IN PARENTHESIS. I.E.: 8 (2-30/1)
9. BRANCH SHUNT TRIP BREAKER (120V COIL); QTY. AND RATING IN PARENTHESIS. I.E.: 9 (3-60/1)
10. BRANCH ARC FAULT CIRCUIT INTERRUPTER BREAKER; QTY. AND RATING IN PARENTHESIS. I.E.: 10 (8-20/1)
11. PROVIDE SINGLE TUB PANEL
12. NEW PANEL TO BE FED FROM EXISTING "MDP" PANEL. SEE ONE LINE DIAGRAM ON THIS SHEET FOR MORE INFORMATION.

DESIGNATION	LOCATION	MTG.	ELECTRICAL CHARACTERISTICS							200% NEUTRAL BUS	ISOLATED GROUND BUS	FEED THRU LUGS	SURGE PROTECTION DEVICE	TOTAL POLES	BRANCH CIRCUIT BREAKERS																										NOTES
			BUS AMPS	MAIN		VOLTAGE	PHASE	WIRE	AIC						1 POLE							2 POLE							3 POLE													
				MCB	MLO										15	20	25	30	35	40	45	50	60	15	20	25	30	35	40	45	50	60	15	20	25	30	35	40	45	50	80	100	150	
RPM	HALLWAY	R	100	-	100	120/208	3	4	10K	NO	NO	NO	YES	42	-	38	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,12

LIGHTING FIXTURE SCHEDULE

1. MOUNTING ABBREVIATIONS, "C" = RECESSED IN GRID, "F" = RECESSED IN FLANGE, "S" = SURFACE, "W" = WALL, "P" = PENDANT, "GR" = GROUND, "U" = UNIVERSAL, "T" = TRACK.
2. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE, HANGERS, ACCESSORIES, ETC. FOR A COMPLETE AND PROPER INSTALLATION. VERIFY ROOM SURFACE CONSTRUCTION/FINISH TYPES PRIOR TO RELEASE OF ANY LIGHTING FIXTURE TO ENSURE PROPER MOUNTING PROVISIONS AND FIXTURES FITTING. REFER TO ARCHITECTURAL DRAWINGS/ELEVATIONS.
3. VERIFY ALL LIGHTING FIXTURE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS/ELEVATION PROPR TO THE START OF ROUGHING. PENDANT FIXTURES SHALL BE MINIMUM 19" FROM TOP OF FIXTURE TO CEILING UNLESS OTHERWISE NOTED.
4. ALL LED SOURCES, DRIVES, AND CONTROLS SHALL MEET THE LATEST UTILITY CO. INCENTIVE REQUIREMENTS. REFER TO THE LATEST PROGRAM REQUIREMENTS DOCUMENTATION AND COORDINATE WITH UTILITY CO. TO ENSURE COMPLIANCE.
5. EXIT SIGNS SHALL BE TYPICALLY MOUNTED ON CEILINGS WHERE VISIBLE OR ON WALL WHERE CEILING MOUNTING IS NOT PRACTICAL. PRIOR TO ROUGHING COORDINATE WITH ARCHITECTURAL DRAWINGS/ELEVATIONS FOR SPECIFIC MOUNTING DIRECTION AND FOR LOCATION.
6. WHEN SUBMITTING TO ENGINEER FOR REVIEW THE LIGHTING FIXTURE SUBMITTALS SHALL CONSIST OF THE FOLLOWING: LIGHTING FIXTURE CUT SHEET, LIGHTING FIXTURE DRIVER CUT SHEET, AND LIGHTING FIXTURE LAMP/LED CUT SHEET FOR EACH FIXTURE. GROUPED CUT SHEETS WILL NOT BE ALLOWED. WHEN SUBMITTING ON LED PRODUCTS PROVIDE LIGHTING FACTS, LM-79, AND LM-80 TEST REPORTS FOR REVIEW.
7. FOR LIGHTING IN MECHANICAL ROOMS AND BACK OF HOUSE AREAS PROVIDE LIGHTING GENERALLY AS SHOWN. LIGHTING SHALL BE SHIFTED AS REQUIRED AT MECHANICAL EQUIPMENT THAT REQUIRES SPACE FOR FILTERS, ETC. MOUNT LIGHTING AT 9'-0" MAXIMUM UNLESS DUCTWORK AND PIPING CANT BE AVOIDED WHERE A FIXTURE IS NEEDED. IN THIS INSTANCE, RAISE OR LOWER THE FIXTURE AS REQUIRED. (NOT LESS THAN 7'-6"). LIGHTING IN THE MECHANICAL ROOM SHALL BE SUSPENDED BY AIRCRAFT CABLE. ALLOW (3') OF SLACK AIRCRAFT CABLE AND FEEDER AT EACH FIXTURE TO PERMIT FUTUREADJUSTMENT. DO NOT SUPPORT LIGHT FIXTURES FROM DUCT OR PIPING. PROVIDE UNISTRUT BELOW DUCTS WHERE FIXTURE LOCATIONS COINCIDE WITH DUCT RUNS. PROVIDE THREADED RODS FROM STRUCTURAL MEMBERS TO SUPPORT UNISTRUT.
8. LIGHTING FIXTURE PACKAGE SUBMITTALS SHALL BE FULLY COORDINATED BETWEEN THE ELECTRICAL CONTRACTOR, LIGHTING FIXTURE REPRESENTATIVE(S), AND LIGHTING MANUFACTURERS TO ENSURE ALL PRODUCT, INSTALLATION, AND CONTROL REQUIREMENTS ARE MET PRIOR TO SUBMISSION FOR REVIEW. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROVIDE A PACKAGE MEETING ALL REQUIREMENTS OF THE PROJECT FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING SYSTEM.
9. PROVIDE ALCS ADDRESSABLE INPUT/OUTPUT (I/O) MODULE FOR EACH FIXTURE UNLESS OTHERWISE NOTED. APPLICATIONS NOT REQUIRING INDIVIDUAL CONTROL (ONLY WHERE SPECIFICALLY NOTED ON PLANS) SHALL BE PROVIDED WITH I/O MODULES ON A FIXTURE GROUPING BASIS. WHERE FIXTURES ARE LOCATED IN HARD CEILING AREAS THE I/O MODULE SHALL BE REMOTE MOUNTED IN ACCESSIBLE AREA MODULE FOR EACH CIRCUIT SHALL BE LOCATED OUTDOORS THE I/O MODULE FOR EACH CIRCUIT SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM ADJACENT TO THE PANEL SERVING THE LIGHTING. REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM - TYPICAL ONE-LINE DIAGRAM" AND SPECIFICATIONS FOR FURTHER INFORMATION.
10. UNLESS OTHERWISE INDICATED, ALL FINISHES SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD FINISH OPTIONS OR RAL FINISH PALETTE (DENOTED AS "FBA").

TYPE	DESCRIPTION	MANUFACTURER	MODEL/SERIES	VOLTAGE	MTG.	SOURCE				CRI	COLOR/ TEMP.	DIMMING PROTOCOL	FINISH/ MATERIALS	NOTES	ALTERNATE MANUFACTURERS
						TYPE	INPUT WATTAGE	INITIAL LUMENS	LUMEN MAINENANCE						
P8	8' SURFACE MOUNTED FIXTURE	WILLIAMS	7SL-8-L40-8-3S-VBY-DIM-UNV	120 V	P	LED	30	3975	L70 @ 50,000HRS	80	3500K	0-10V	WHITE	-	-
P8E	8' SURFACE MOUNTED FIXTURE WITH EMERGENCY BATTERY PACK	WILLIAMS	7SL-8-L40-8-3S-VBY-EM/10WLP-DIM-UNV	120 V	P	LED	30	3975	L70 @ 50,000HRS	80	3500K	0-10V	WHITE	-	-
R22	2'x2' RECESSED FIXTURE	WILLIAMS	PT-2-2-L26-8-RA-DIM-UNV	120 V	G	LED	22	2924	L70 @ 72,000 HRS	80	3500K	0-10V	WHITE	-	-
R22E	2'x2' RECESSED FIXTURE WITH EMERGENCY BATTERY PACK	WILLIAMS	PT-2-2-L26-8-RA-EM/10W-DIM-UNV	120 V	G	LED	22	2924	L70 @ 72,000 HRS	80	3500K	0-10V	WHITE	-	-
UC1	UNDERCABINET LIGHTING	SIGNIFY/DAY-BRITE	LINCS100E-L28-930-120-*FBA*-DIM	120 V	S	LED	7	594	L70 @ 50,000 HRS	90	3000K	N/A	*FBA*	-	-
X	UNIVERSAL MOUNT EXIT SIGN	WILLIAMS	PVT-U-B-G-S/R-SD	120 V	U	LED	5	N/A	N/A		N/A	N/A	RED	-	-



1 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

POKE-THRU DEVICE SCHEDULE

NOTES:
1. FINISH SHALL BE BY ARCHITECT. PROVIDE BLACK FINISH AS MINIMUM.
2. ALL FACEPLATE OPENINGS SHALL BE CLOSED OFF IF NOT USED TO MAINTAIN THE FIRE RATING OF THE DEVICE (TYP.)
3. CORE DRILL HOLE IN CONCRETE SLAB FOR POKE-THRU DEVICE AS REQUIRED. VERIFY EXACT LOCATIONS WITH OWNER PRIOR TO ANY INSTALLATION INSTRUCTIONS PRIOR TO ANY WORK (TYP.)
4. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ANY WORK (TYP.)
5. PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION (TYP.)
6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR TO VERIFY FIELD CONDITIONS AND DIMENSIONS PRIOR TO ROUGH-IN. ALERT ENGINEER WITH ANY DISCREPANCIES.
8. PROVIDE SUITABLE FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE CONDUIT CROSSES SEISMIC, CONTROL AND EXPANSION JOINTS.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FIRE RATED POKE-THRU'S, FLOOR BOXES, ACCESSORIES AND FITTINGS NEEDED FOR A COMPLETE INSTALLATION WITH THE MANUFACTURER PRIOR TO BID. DETAILS SHOWN ON ALL DRAWINGS ARE SUBJECTED TO REVIEW AND COORDINATION WITH MANUFACTURER.

TYPE	MANUFACTURER	SERIES	CORE	GANG QUANTITY	POWER	CONDUIT SIZE	TELECOMMUNICATIONS	CONDUIT SIZE	AUDIO/VISUAL & MISC.	CONDUIT SIZE	NOTES
A	LEGRAND	6AT SERIES - 6ATC2P	6"	3	(2) DUPLEX	3/4"	UP TP 8	1-1/4"	-	-	1, 2, 3, 5, 7

DISPLAY BOX SCHEDULE

NOTES:
1. FINISH SHALL BE BY ARCHITECT. PROVIDE FLUSH COVER WITH WHITE FINISH AS MINIMUM.
2. PROVIDE ALL REQUIRED MANUFACTURERACCESSORIES FOR A COMPLETE INSTALLATION OF INDICATED DEVICES AND COMPONENTS.
3. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN; MOUNT AT 60" A.F.F. AT A MINIMUM.

TYPE	MANUFACTURER	SERIES	GANG QUANTITY	POWER	CONDUIT SIZE	TELECOMMUNICATIONS	CONDUIT SIZE	AUDIO/VISUAL & MISC	CONDUIT SIZE	NOTES
A	LEGRAND	TV2MW	2	(1) DUPLEX	3/4"	(1) GANG; BY OWNERS VENDOR	3/4"	N/A	N/A	1,2,3

ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT

NOTES:
1. BRANCH CIRCUIT WIRING METHODS SHALL BE AS NOTED ON THE DRAWINGS AND/OR SPECIFICATIONS FOR THE APPLICABLE LOCATION.
2. "FLEX" DENOTES FINAL THREE FEET (MAXIMUM) OF RACEWAY SHALL BE FLEXIBLE METAL OR LIQUIDTIGHT METAL CONDUIT
3. "CP" DENOTES FINAL CONNECTION TO BOX OR CONTROL PANEL PREWIRED TO THE EQUIPMENT.
4. "REC" PROVIDE RECEPTACLE IN THE NEMA CONFIGURATION NOTED. PROVIDE GFCI TYPE AT OUTDOOR LOCATIONS, KITCHEN AREAS, OR WITHIN 6'-0" OF A SINK.
5. "WP" INDICATED PROVIDE WEATHERPROOF INSTALLATION OF RACEWAY SYSTEM.
6. MOTOR-RATED SWITCH SHALL HAVE THERMAL OVERLOAD ELEMENTS SIZED PER THE MANUFACTURER'S RECOMMENDATIONS.
7. NOTES 8-20 ARE OPTIONS WHICH SHALL BE SPECIFICALLY NOTED IN REMARKS FOR INCLUSION.
8. DISCONNECT PROVIDED INTEGRAL (PREWIRED) TO EQUIPMENT BY OTHERS.
9. PROVIDE MOTOR STARTER, SEE COMBINATION MOTOR STARTER SCHEDULE FOR MORE INFORMATION.
10. PROVIDE VARIABLE FREQUENCY DRIVE, REFER TO VFD SCHEDULE FOR MORE INFORMATION.
11. ELECTRICAL CONTRACTOR SHALL WIRE VIA ASSOCIATED CONTROL PANEL.
12. PROVIDE 120V POWER TO LEAK DETECTION FROM NEAREST RECEPTACLE CIRCUIT AND PROVIDE LOW VOLTAGE WIRING AS REQUIRED.
13. PROVIDE 30 MA GFCI CIRCUIT BREAKER FOR HEAT TRACE APPLICATIONS.
14. ELECTRICAL CONTRACTOR SHALL WIRE EXHAUST FAN VIA LINE VOLTAGE T-STAT FURNISHED BY THE MECHANICAL CONTRACTOR.
15. ELECTRICAL CONTRACTOR SHALL PROVIDE 2#12+1#12-3/4"C. TO AQUASTAT, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
16. DISCONNECT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND CONTROL WIRING BACK TO PERMISSIVE CONTACTS AND ASSOCIATED VFD FOR DISCONNECT POSITION INTERFACE (ON OR OFF).
17. ELECTRICAL CONTRACTOR SHALL WIRE EXHAUST FAN VIA LINE VOLTAGE VARIABLE SPEED SWITCH FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
18. PROVIDE WEATHERPROOF GFCI RECEPTACLE AND WEATHERPROOF LIGHT FIXTURE AT UNIT. SEE ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION.
19. INDOOR UNIT POWERED FROM OUTDOOR UNIT. WIRE PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE SERVICE SWITCH TO DISCONNECT ALL POWER AND CONTROL.
20. WHERE EXISTING WIRING IS BEING EXTENDED, MATCH EXISTING WIRING. NOTIFY ENGINEER IF EXISTING WIRING DOES NOT MEET THE MCA REQUIREMENTS OF THE NEW EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR AS REQUIRED PRIOR TO MECHANICAL CONTRACTOR ORDERING EQUIPMENT.

TAG	DESCRIPTION	ELECTRICAL CHARACTERISTICS				CFM	PANEL / CIRCUIT	CIRCUIT BREAKER SIZE	WIRE + CONDUIT	LOCATED	CONNECTION								WP	NOTES
		VOLTAGE	PHASE	MCA	MOCP						FLEX	CP	REC.	THERMAL SWITCH	DISCONNECT					
															SIZE	FUSE	POLE	NEMA		
B-1	GAS FIRED BOILER	120 V	1	-	-	-	EXISTING FEED FROM B-1	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	YES	-	-	-	-	NO	-
CU-1A	SPLIT SYSTEM CONDENSING UNIT	208 V	1	25	31	-	RPM-39,41	40A/2P	2#8 +1#10G. IN 3/4"C.	SEE FLOOR PLANS	Y	NO	NO	NO	60	35	2	3R	YES	-
CU-1B	SPLIT SYSTEM CONDENSING UNIT	208 V	1	25	31	-	RPM-40,42	40A/2P	2#8 +1#10G. IN 3/4"C.	SEE FLOOR PLANS	Y	NO	NO	NO	60	35	2	3R	YES	-
ERV-1	ENERGY RECOVERY VENTILATOR	120 V	1	15.0	15	250	RPM-37	15A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	30	15	2	1	NO	-
FCU-1	FAN COIL UNIT	120 V	1	-	-	180	EXISTING FEED FROM FCU-1	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-1A	SPLIT SYSTEM EVEPORATING UNIT	208 V	1	25	31	1200	-	-	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	YES	-	-	-	-	NO	19
FCU-1B	SPLIT SYSTEM EVEPORATING UNIT	120 V	1	25	31	1200	-	-	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	YES	-	-	-	-	NO	19
FCU-2	FAN COIL UNIT	120 V	1	-	-	180	EXISTING FEED FROM FCU-2	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-3	FAN COIL UNIT	120 V	1	-	-	500	EXISTING FEED FROM FCU-3	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-4	FAN COIL UNIT	120 V	1	-	-	526	EXISTING FEED FROM FCU-4	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-5	FAN COIL UNIT	120 V	1	-	-	253	EXISTING FEED FROM FCU-5	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-6	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-6	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-7	FAN COIL UNIT	120 V	1	-	-	403	EXISTING FEED FROM FCU-7	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-8	FAN COIL UNIT	120 V	1	-	-	526	EXISTING FEED FROM FCU-8	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-9	FAN COIL UNIT	120 V	1	-	-	403	EXISTING FEED FROM FCU-9	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-10	FAN COIL UNIT	120 V	1	-	-	176	EXISTING FEED FROM FCU-10	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-11	FAN COIL UNIT	120 V	1	-	-	176	EXISTING FEED FROM FCU-11	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-12	FAN COIL UNIT	120 V	1	-	-	253	EXISTING FEED FROM FCU-12	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-13	FAN COIL UNIT	120 V	1	-	--	180	EXISTING FEED FROM FCU-13	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-14	FAN COIL UNIT	120 V	1	-	-	180	EXISTING FEED FROM FCU-14	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-15	FAN COIL UNIT	120 V	1	-	-	253	EXISTING FEED FROM FCU-15	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-16	FAN COIL UNIT	120 V	1	-	-	253	EXISTING FEED FROM FCU-16	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-17	FAN COIL UNIT	120 V	1	-	-	180	EXISTING FEED FROM FCU-17	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-18	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-18	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-19	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-19	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-20	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-20	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-21	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-21	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-22	FAN COIL UNIT	208 V	3	-	-	1200	EXISTING FEED FROM FCU-22	20A/3P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-23	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-18	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-24	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-20	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
FCU-25	FAN COIL UNIT	120 V	1	-	-	430	EXISTING FEED FROM FCU-21	20A/1P	2#12 +1#12G. IN 3/4"C	SEE FLOOR PLANS	Y	NO	NO	NO	-	-	-	-	NO	8
RTU-2	ROOF TOP UNIT	208 V	3	42	50	3000	EXISTING FEED FROM RTU-2	50A/3P	3#6 +1#10G. IN 1"C	SEE FLOOR PLANS	Y	NO	NO	NO	60	50	3	3R	YES	20
RTU-3	ROOF TOP UNIT	208 V	3	42	50	3000	EXISTING FEED FROM RTU-3	50A/3P	3#6 +1#10G. IN 1"C	SEE FLOOR PLANS	Y	NO	NO	NO	60	50	3	3R	YES	20
RTU-4	ROOF TOP UNIT	208 V	3	36.1	50	2450	EXISTING FEED FROM RTU-4	50A/3P	3#6 +1#10G. IN 1"C	SEE FLOOR PLANS	Y	NO	NO	NO	60	50	3	3R	YES	20
RTU-5	ROOF TOP UNIT	208 V	3	41.2	50	3400	EXISTING FEED FROM RTU-5	50A/3P	3#6 +1#10G. IN 1"C	SEE FLOOR PLANS	Y	NO	NO	NO	60	50	3	3R	YES	20

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)
04/10/2025

Drawn by JC
Checked by SC

Revised on

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Sheet Contents
ELECTRICAL SCHEDULES

Project Number. 6846

Drawing No.
E700

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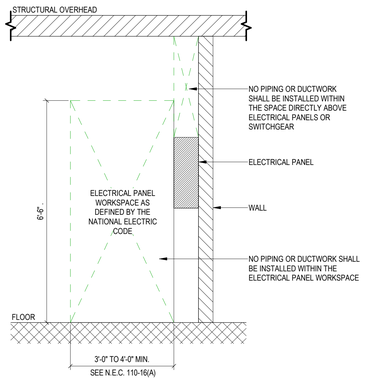

1 ELECTRICAL & MECHANICAL EQUIPMENT COORDINATION

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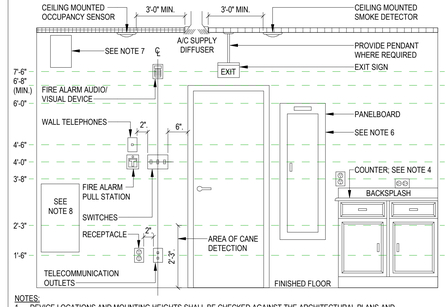

NOTES:
1. DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE CHECKED AGAINST THE ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN IN ORDER TO AVOID INTERFERENCES WITH CASEWORK, FURNITURE, WINDOWS, MIRRORS, EQUIPMENT, ETC.
2. LOCATIONS OF OUTLETS AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE EXACT CENTER OF ALL OUTLETS SHALL BE PLACED IN COOPERATION WITH THE GENERAL CONTRACTOR AND ARCHITECT. CONTRACTOR SHALL EXAMINE ALL THE EXTERIOR DETAILS OF THE CONSTRUCTION DRAWINGS FOR OUTLET LOCATIONS NOT CONFORMING TO THE DETAIL ABOVE. WHERE DETAILED TO SPECIFIC LOCATIONS, THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE. IF AN OUTLET IS INSTALLED IN SUCH A LOCATION AS TO BE OUT OF PROPER RELATION TO BE CORRECTED BY AT THE EXPENSE OF THE CONTRACTOR UNDER THE DIRECTION OF THE ARCHITECT OR ENGINEER.
3. DEVICES SHALL BE CENTERED IN A COMMON VERTICAL PLANE. HEIGHT SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS, AND FIRE ALARM SIGNALS. COORDINATE LOCATIONS WITH MATERIALS SUCH AS MASONRY UNITS.
4. REFER TO THE ARCHITECTS ELEVATION DETAILS FOR EXACT MOUNTING HEIGHT AND LENGTH OF SURFACE RACEWAYS. RECEPTACLE MOUNTING HEIGHT ABOVE COUNTERS SHALL BE COORDINATED WITH CASEWORK HEIGHTS.
5. PROTRUDING OBJECTS CANNOT REDUCE THE MINIMUM WIDTH OF ACCESSIBLE ROUTES.
6. 4" MAX. PROTRUDING FROM WALL FOR CANE.
7. OBJECTS ABOVE HEAD ROOM CLEARANCE (MIN. OF 7'-6") CAN PROTRUDE ANY AMOUNT.
8. OBJECTS WITH LEADING EDGES WITHIN CANE SWEEP CAN PROTRUDE ANY AMOUNT.

2 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

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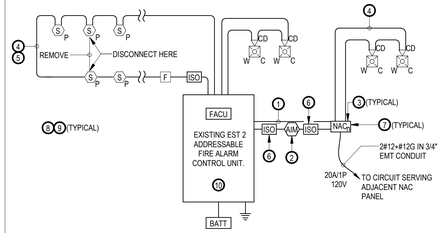
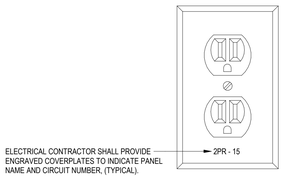


FIRE ALARM RISER KEYED NOTES:

1. TO ACTIVATE NOTIFICATION CIRCUIT POWER BOOSTER.
2. TO SUPERVISE NOTIFICATION CIRCUIT POWER BOOSTER
3. ALL NEW AND EXISTING STROBES WITHIN THE SAME FIELD OF VIEW SHALL BE SYNCHRONIZED. EXACT METHOD FOR SYNCHRONIZATION SHALL BE SPECIFIC TO EACH FIRE ALARM MANUFACTURER. PROVIDE EVIDENCE OF SYNCHRONIZATION IN FIRE ALARM SUBMITTAL.
4. PROVIDE #14 MINIMUM WIRE SIZE AND 3/4" MINIMUM CONDUIT SIZE.
5. EXACT WIRING SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTING TO EXISTING LOOP, VERIFY THAT EXISTING LOOPS ARE NOT MAXED OUT PRIOR TO WORK.
6. PROVIDE ISOLATION MODULES AT EITHER SIDE OF CONTROL MODULES FOR BOOSTER PANELS AND MASTER BOX, TYPICAL.
7. AUXILIARY POWER SUPPLY TO SERVE EXPANSION OF EXISTING SYSTEM AS REQUIRED.
8. SEE DRAWINGS FOR ADDITIONAL DEVICES, MODULES, ETC.
9. SEE FIRE ALARM SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE REPROGRAMMING AS REQUIRED. UPDATE WITH NEW NOUN NAMES IN THE FIRE ALARM CONTROL UNIT(S). UPDATE FIRE ALARM AS-BUILT DRAWINGS AS REQUIRED.

3 PARTIAL FIRE ALARM SYSTEM

NOT TO SCALE



ELECTRICAL CONTRACTOR SHALL PROVIDE ENGRAVED COVERPLATES TO INDICATE PANEL NAME AND CIRCUIT NUMBER. (TYPICAL).

NOTE:
1. GENERAL RECEPTACLES AND COVERPLATES SHALL BE OF COLOR AS SELECTED BY ARCHITECT; UNLESS OTHERWISE INDICATED.

4 TYPICAL RECEPTACLE LABELING DETAIL

NOT TO SCALE

KEYED DETAIL NOTES:

1. TO LOCAL UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA. CONCEAL ALL WIRING.
2. HARD WIRE TO JUNCTION BOX (DO NOT PLUG IN).
3. BATTERY UNIT. SEE SPECIFICATIONS. SIZE UNIT TO HANDLE FULL LOAD FOR 1 1/2 HOURS TO 87 1/2% OF VOLTAGE OR PROVIDE ADDITIONAL UNITS TO ACCOMPLISH THIS. MOUNT SO THAT IT CAN BE READILY MAINTAINED AND TESTED.
4. TO DEDICATED UNSWITCHED EXIT SIGN CIRCUIT. CONCEAL ALL WIRING.

5 EMERGENCY BATTERY SCHEMATIC

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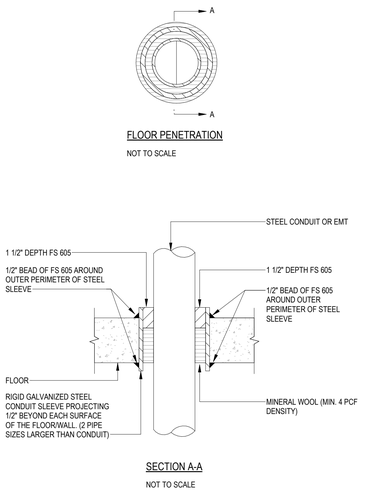

FLOOR PENETRATION

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SECTION A-A

NOT TO SCALE

6 FLOOR PENETRATION DETAIL - FIRE RATED

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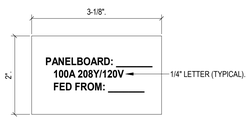
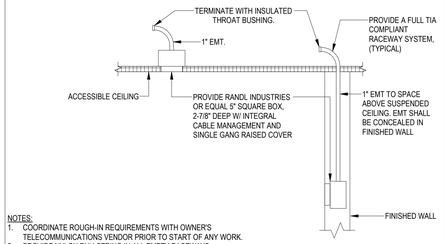


NOTES:
1. NAMEPLATES SHALL BE FURNISHED AND INSTALLED ON THE METER CENTERS/SWITCHBOARD AND METER CENTERS/SWITCHBOARD CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, JUNCTION BOXES, CABINETS FOR ALL SPECIAL PURPOSE SWITCHES, MOTOR DISCONNECT SWITCHES, STARTERS AND OTHER CONTROLS FURNISHED UNDER THIS CONTRACT, TO DESIGNATE THE EQUIPMENT CONTROLLED AND FUNCTION.
2. NAMEPLATES SHALL BE LAMINATED WHITE BAKELITE WITH 1/4" HIGH BLACK RECESSED LETTERS.
3. NAMEPLATES SHALL BE SECURELY ATTACHED TO THE EQUIPMENT WITH GALVANIZED SCREWS OR RIVETS.
4. ADHESIVES OR CEMENTS WILL NOT BE PERMITTED.

7 TYPICAL PANELBOARD NAMEPLATE DETAIL

NOT TO SCALE



NOTES:
1. COORDINATE ROUGH-IN REQUIREMENTS WITH OWNER'S TELECOMMUNICATIONS VENDOR PRIOR TO START OF ANY WORK.
2. PROVIDE NYLON PULLSTRING IN ALL EMPTY RACEWAYS.
3. PROVIDE ACCESSIBLE PULL BOXES, SIZED PER TIA STANDARDS, AS NEEDED.

8 TELECOMMUNICATIONS CONDUIT DETAIL

NOT TO SCALE

Certification

STEVEN COSTA
No. 7813
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)
04/10/2025

Drawn by JC

Checked by SC

Revised on

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Sheet Contents

ELECTRICAL DETAILS

Project Number. 6846

Drawing No.

E701

Sheet of

ELECTRICAL SPECIFICATIONS:

PART 1 - GENERAL

1.1. GENERAL REQUIREMENTS:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE ARRANGEMENT, DETAILS AND LOCATION AS INDICATED ON THE CONTRACT DOCUMENTS, REFERENCE DRAWINGS AND ANY SUPPLEMENTAL ADDENDA, BULLETINS OR DRAWINGS ISSUED BY THE ARCHITECT/ENGINEER. LAYOUTS ARE DIAGRAMMATIC AND FINAL ARRANGEMENT OF EQUIPMENT SHALL SUIT FIELD CONDITIONS. REFER TO ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT FOR THE EXACT LOCATION OF ALL EQUIPMENT AND REQUIRED MOUNTING HEIGHTS PRIOR TO THE START OF ANY ROUGHING. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGE IN LOCATION TO OUTLETS AND EQUIPMENT PRIOR TO ROUGHING AT NO ADDITIONAL EXPENSE TO THE OWNER.

1.2. SCOPE OF WORK:

1. THE SCOPE OF WORK CONSISTS OF THE INSTALLATION OF ALL MATERIALS TO BE FURNISHED UNDER THIS SECTION, AND WITHOUT LIMITING THE GENERALITY THEREOF, CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, STORAGE, TRANSPORTATION, RIGGING, STAGING, APPURTENANCES AND SERVICES NECESSARY AND/OR INCIDENTAL TO PROPERLY COMPLETE ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, OR AS REASONABLY INFERRED FROM EITHER, IN THE OPINION OF THE ARCHITECT/ENGINEER AS BEING REQUIRED.

1.3. SITE VISIT:

1. BIDDERS ARE ADVISED TO VISIT THE SITE AND INFORM THEMSELVES AS THE TO CONDITIONS UNDER WHICH THIS WORK WILL BE PERFORMED. FAILURE TO DO SO WILL, IN NO WAY, RELIEVE THE SUCCESSFUL BIDDER FROM THE RESPONSIBILITY OF FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. FIELD VERIFY MEASUREMENTS AND CIRCUITING ARRANGEMENTS THAT ARE SHOWN ON DRAWINGS. ARRANGEMENTS SHALL BE MADE WITH THE OWNER PRIOR TO THE VISIT FOR INSPECTION OF THE WORK AREA(S).

1.4. RELATED WORK:

1. THE FOLLOWING RELATED WORK IS NOT INCLUDED UNDER THIS SECTION AND SHALL BE PROVIDED UNDER OTHER SECTIONS. COORDINATE WITH ALL DIVISIONS TO ENSURE A COMPLETE INSTALLATION:
   A. CUTTING AND PATCHING.
   B. ALLOWANCES.
   C. ALTERNATIVES.
   D. ACCESS PANELS.
   E. FIELD PAINTING.
   F. TELECOMMUNICATION WIRING AND DEVICES UNLESS SPECIFICALLY NOTED ON DRAWINGS OR IN SPECIFICATIONS.

1.5. DEFINITIONS:

1. "CONCEALED" SHALL BE DEFINED AS AREAS WHERE CONDUIT AND WIRING IS LOCATED IN CHASES, WALLS, PARTITIONS, SHAFTS, AND ABOVE FINISHED CEILINGS.
2. "UNDERGROUND" SHALL MEAN CONDUIT AND WIRING EXTERIOR TO OR WITHIN THE BUILDING THAT IS BURIED. ALL OTHER CONDUIT AND WIRING SHALL BE CONSIDERED "EXPOSED".
3. "EXPOSED" SHALL MEAN CONDUIT AND WIRING RUN ON THE SURFACE OF THE BUILDING CONSTRUCTION.
4. "CONDUIT" SHALL MEAN IN ADDITION TO CONDUIT, ALL FITTINGS, HANGERS AND OTHER ACCESSORIES RELATING TO SUCH CONDUIT SYSTEMS.
5. "WIRING" SHALL MEAN WIRE, RACEWAY, BOXES AND FITTINGS.
6. "PROVIDE" SHALL MEAN "PROVIDED COMPLETE IN PLACE" THAT IS, "FURNISHED AND INSTALLED."

1.6. CODES, REGULATIONS, AND PERMITS:

1. ALL WORK UNDER THIS SECTION SHALL CONFORM TO THE LATEST EDITIONS OF THE LOCAL STATE BUILDING CODE, THE STATE ELECTRICAL CODE, NFPA, ANSI/NECA INSTALLATION STANDARDS, AND ALL OTHER LOCAL GOVERNING CODES. GIVE NOTICES, FILE PLANS, OBTAIN AND PAY FOR PERMITS AND LICENSES AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES HAVING JURISDICTION. PERMITS SHALL BE SECURED THROUGH THE CITY. DELIVER CERTIFICATES OF INSPECTIONS TO ARCHITECT/ENGINEER. NO WORK SHALL BE COVERED BEFORE EXAMINATION AND APPROVAL BY ARCHITECT/ENGINEER AND THE AUTHORITIES HAVING JURISDICTION. IMPERFECT OR CONDEMNED WORK SHALL BE REPLACED WITH WORKING CONFORMING TO REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER, SUBJECT TO APPROVAL OF THE ARCHITECT/ENGINEER. IF WORK IS COVERED BEFORE DUE INSPECTION AND APPROVAL THE ELECTRICAL CONTRACTOR SHALL PAY COSTS OF UNCOVERING THE INSTALLED WORK, WHETHER IT MEETS CONTRACT REQUIREMENTS OR NOT.

1.7. MATERIALS:

1. ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION SHALL BE NEW AND OF THE BEST GRADE FOR THE SERVICE INTENDED. IT IS NOT INTENDED THAT THESE SPECIFICATIONS OR DRAWINGS SHOW EVERY CONDUIT, FITTING, AND APPURTENANCE. ALL SUCH PARTS NECESSARY FOR THE COMPLETE EXECUTION OF THE WORK, IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE AND TO THE SATISFACTION OF THE ARCHITECT/ENGINEER SHALL BE PROVIDED WHETHER THESE PARTS MAY HAVE SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS.

1.8. SHOP DRAWINGS:

1. WHERE THE DRAWINGS OR SPECIFICATIONS LIST SPECIFIC BRANDS OR CATALOG NUMBERS, ONLY THESE PRODUCTS MAY BE USED UNLESS THE WORDS: "OR APPROVED EQUAL" OR "BUT ARE NOT LIMITED TO" ARE INCLUDED. THE ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE ELECTRICAL CONTRACTOR FROM COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, NOR DEPARTURES THEREOF. THE ELECTRICAL CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFORMING AND CORRECTNESS OF ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATING PROCESSES, FOR TECHNIQUES OR ASSEMBLY, AND FOR PERFORMING THEIR WORK IN A SAFE MANNER. DEVIATIONS TO SPECIFIED MATERIALS SHALL BE AT THE SOLE RISK OF THE ELECTRICAL CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR ALL ASSOCIATED CHANGES TO THIS AND OTHER TRADES. WITHIN THIRTY (30) DAYS AFTER THE DATE OF NOTICE TO PROCEED, AND BEFORE THE PROCUREMENT OF ANY MATERIALS AND EQUIPMENT, SUBMIT FOR APPROVAL A COMPLETE ITEMIZED LIST OF ALL THE MATERIALS AND EQUIPMENT INCORPORATED UNDER THIS SECTION. ALL SHOP DRAWING SUBMITTALS SHALL BE COMPLETE AND INCLUDE ALL PART 2 PRODUCTS AND VFDS OF THIS SPECIFICATION AND BE CLEARLY IDENTIFIED. NO CONSIDERATION WILL BE GIVEN TO PARTIAL SUBMITTALS, EXCEPT WITH PRIOR APPROVAL.

1.9. OPERATIONS AND MAINTENANCE MANUALS:

1. AT LEAST TWO (2) WEEKS PRIOR TO THE TIME OF TURNING OVER HIS CONTRACT TO THE OWNER FOR USE AND OCCUPANCY OR SUBSTANTIAL COMPLETION, SECURE AND DELIVER TO THE ARCHITECT/ENGINEER THREE (3) COMPLETE INDEXED BOUND FILES CONTAINING APPROVED OPERATING AND MAINTENANCE MANUALS, SHOP DRAWINGS, AND OTHER DATA AS FOLLOWS:
   A. OPERATION DESCRIPTION OF ALL SYSTEMS.
   B. COMPLETE SHOP DRAWINGS OF ALL EQUIPMENT.
   C. PREVENTIVE MAINTENANCE INSTRUCTIONS FOR ALL SYSTEMS.
   D. SPARE PARTS LISTS OF ALL SYSTEM COMPONENTS.
   E. NAMES, ADDRESS AND TELEPHONE NUMBERS OF ALL SUPPLIERS OF THE SYSTEMS.
2. NON-AVAILABILITY OF OPERATING AND MAINTENANCE MANUALS OR INACCURACIES THEREIN MAY BE GROUNDS FOR CANCELLATION AND POSTPONEMENT OF ANY SCHEDULED FINAL INSPECTION BY THE OWNER UNTIL SUCH TIME AS THE DISCREPANCY HAS BEEN CORRECTED AND/OR RETAINAGE OF SUFFICIENT MONIES TO PREPARE SAME.

1.10. RECORD DRAWINGS:

1. OWNER'S RECORD DRAWINGS SHALL BE UPDATED AS THE PROJECT PROGRESSES. MAINTAIN DOCUMENTS IN SAFE, DRY LOCATION. INDICATE CLEARLY AND ACCURATELY ANY CHANGES NECESSITATED BY FIELD CONDITIONS AND DIMENSION ALL CONCEALED RACEWAYS. THE ELECTRICAL CONTRACTOR SHALL DELIVER THE COMPLETED REPRODUCIBLE RECORD DRAWINGS AND CAD DISKS PROPERLY TITLED AND DATED TO ARCHITECT/ENGINEER. THESE RECORD DRAWINGS SHALL BECOME THE PROPERTY OF THE OWNER.

1.11. CHANGE ORDERS/PROPOSAL REQUEST:

1. DURING THE COURSE OF CONSTRUCTION, CHANGES IN THE WORK MAY OCCUR. WHEN A SIGNIFICANT CHANGE IS TO BE MADE, A PROPOSAL REQUEST WILL BE ISSUED.
2. PROVIDE A COMPLETE COST BREAKDOWN WHEN RESPONDING TO EACH PROPOSAL REQUEST.
3. EACH ITEM OF WORK TO BE PRICED SEPARATELY.
4. EACH LINE ITEM TO BE BROKEN DOWN INCLUDING QUANTITIES AND LISTING SEPARATELY LABOR AND MATERIAL.
5. BOTH CREDITS AND EXTRAS SHALL BE SEPARATELY AND CLEARLY QUANTIFIED.
6. ALLOWANCES FOR OVERHEAD AND PROFIT SHALL BE AS LISTED IN THE SUPPLEMENTARY CONDITIONS.
7. IF YOU BECOME AWARE OF A FIELD CONDITION, CODE REQUIREMENT, ERROR, OR OMISSION THAT YOU FEEL SHOULD RESULT IN A CHANGE TO THE WORK, PLEASE CONTACT THE ENGINEER FOR DISCUSSION. THE ENGINEER MAY BE ABLE TO CLARIFY THE SITUATION AND AVOID UNNECESSARY PAPERWORK.
8. IT IS RECOGNIZED THAT THE OWNER BENEFITS WHEN THE CONSTRUCTION PROCESS IS A COOPERATIVE EFFORT INSTEAD OF AN ADVERSARIAL RELATIONSHIP. REASONABLE GIVE-AND-TAKE ALLOWS THE CONSTRUCTION PROCESS TO MOVE SMOOTHLY. YOUR EFFORTS IN THIS REGARD WILL BE APPRECIATED BY ALL PARTIES.

1.12. GUARANTEE AND SERVICE:

1. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE PERFORMANCE OF THE INSTALLATION AND ALL EQUIPMENT INCLUDED IN THIS SECTION IN WRITING FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEER. SHOULD ANY DEFECTS IN MATERIALS OR WORKMANSHIP APPEAR DURING THIS PERIOD, THEY SHALL BE CORRECTED OR REPLACED BY THE ELECTRICAL CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

1.13. COORDINATE WITH OTHER TRADES:

1. CONFER WITH OTHER TRADES AND FURNISH IN WRITING TO THE ARCHITECT/ENGINEER ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. WORK INSTALLED THAT CREATED INTERFERENCE OR RESTRICTS ACCESS REQUIRED BY CODE OR TO CONDUCT MAINTENANCE AND/OR ADJUSTMENTS SHALL BE MODIFIED AT NO ADDITIONAL COST TO THE OWNER. FURNISH TO OTHER TRADES ANY INFORMATION REQUIRED FOR THE PURPOSE OF COORDINATING ADJACENT WORK.

1.14. SLEEVES, INSERTS, AND SUPPORTS:

1. THE ELECTRICAL CONTRACTOR SHALL LAYOUT AND INSTALL HIS WORK IN ADVANCE OF THE POURING OF CONCRETE FLOORS AND WALLS. WHERE OPENINGS ARE REQUIRED IN WALLS AND FLOORS FOR THE PASSING OF RACEWAYS, DUCTS OR BUSWAYS, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH THE NECESSARY INFORMATION REGARDING DIMENSIONS AND LOCATIONS SO THAT HE MAY INSTALL SUITABLE CONCRETE STOPS TO PROVIDE THESE OPENINGS. SUCH OPENINGS SHALL BE BY THE GENERAL CONTRACTOR IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE FIREPROOF INTEGRITY OF THE BUILDING. THE ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE LOCATION OF AND MAINTAINING IN PROPER POSITION, SLEEVES, INSERTS AND ANCHOR BOLTS SUPPLIED AND/OR SET IN PLACE BY HIM. IN THE EVENT THAT FAILURE TO DO SO REQUIRES CUTTING AND PATCHING OF FINISHED WORK, SUCH WORK SHALL BE DONE AT THE ELECTRICAL CONTRACTOR'S EXPENSE BY THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INSERTS, CONDUIT HANGERS, ANCHORS AND STEEL SUPPORTS NECESSARY FOR THE SUPPORT AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT.

1.15. CUTTING AND PATCHING:

1. INCLUDE ALL CORING, CUTTING, PATCHING AND FIREPROOFING NECESSARY FOR THE EXECUTION OF THIS SECTION. STRUCTURAL ELEMENTS SHALL NOT BE CUT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. REPAIR AND PATCH AROUND THE WORK SPECIFIED HEREIN TO MATCH THE EXISTING ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. FILL AND PATCH ALL OPENINGS OR HOLES LEFT IN THE EXISTING STRUCTURES BY THE REMOVAL OF EXISTING EQUIPMENT THAT IS PART OF THIS SECTION OF THE SPECIFICATIONS. APPLY FIRESTOPPING TO CABLE AND RACEWAY SLEEVES AND OTHER PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL UNDISTURBED FIRE-RESISTANCE RATINGS OF ASSEMBLIES.

1.16. HOISTING, SCAFFOLDING AND PLANKING:

1. INCLUDE THE FURNISHING, SETUP-UP AND MAINTENANCE OF ALL HOISTING MACHINERY, CRANES, SCAFFOLDS, STAGING AND PLANKING AS REQUIRED FOR THE EXECUTION OF WORK FOR THIS SECTION.

1.17. SAFETY REQUIREMENTS:

1. LIFE SAFETY AND ACCIDENT PREVENTION SHALL BE A PRIMARY CONSIDERATION. COMPLY WITH ALL SAFETY REQUIREMENTS OF THE OWNER AND OSHA THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. FURNISH, PLACE AND MAINTAIN PROPER GUARDS AND ANY OTHER NECESSARY CONSTRUCTION REQUIRED TO SECURE SAFETY OF LIFE AND PROPERTY.

1.18. ACCESSIBILITY:

1. ALL WORK PROVIDED UNDER THIS SECTION SHALL BE PROVIDED SO THAT PARTS REQUIRING PERIODIC INSPECTION, MAINTENANCE AND REPAIR ARE READILY ACCESSIBLE, WORK OF THIS TRADE SHALL NOT INFRINGE UPON THE CLEARANCES OF OTHER TRADES.

1.19. PROTECTION OF WORK AND PROPERTY:

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND THE PROTECTION OF ALL WORK INCLUDED UNDER THIS SECTION UNTIL THE COMPLETION AND FINAL ACCEPTANCE OF THIS PROJECT. PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE FROM ALL CAUSES INCLUDING, BUT NOT LIMITED TO, FIRE, VANDALISM, AND THEFT. ALL MATERIALS AND EQUIPMENT DAMAGED OR STOLEN SHALL BE REPAIRED OR REPLACED WITH EQUAL MATERIAL OR EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. PROTECT ALL EQUIPMENT, OUTLETS AND OPENINGS, AND ROOF PENETRATIONS WITH TEMPORARY PLUGS, CAPS AND COVERS. PROTECT WORK AND MATERIALS OF OTHER TRADES FROM DAMAGE THAT MIGHT BE CAUSED BY WORK OR WORKMEN UNDER THIS SECTION AND MAKE GOOD ON DAMAGE THUS CAUSED. DAMAGED MATERIALS SHALL BE REMOVED FROM THE SITE; DAMAGE CAUSED BY THE ELECTRICAL CONTRACTOR DURING INSTALLATION SHALL BE REPAIRED AND/OR REPLACED AT THIS CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE BUILDING OWNER.

1.20. SEISMIC RESTRAINT REQUIREMENTS:

1. PROVIDE SEISMIC RESTRAINTS AS REQUIRED IN ACCORDANCE WITH THE STATE BUILDING CODE. A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER, LICENSED IN THE APPLICABLE STATE FOR THE PROJECT LOCATION, SHALL PREPARE THE SEISMIC RESTRAINT DESIGN AND CERTIFY THAT THE DESIGN IS IN COMPLIANCE WITH THE STATE BUILDING CODE REQUIREMENTS. PROVIDE EXPANSION AND DEFLECTION FITTINGS AND HANGERS AS REQUIRED TO ACCOMMODATE BUILDING MOVEMENT DEFINED BY THE BUILDING'S STRUCTURAL ENGINEER.

1.21. PROJECT CLOSEOUT:

1. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY THE ELECTRICAL CONTRACTOR INDICATING THAT THE INSTALLATION IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND ALL APPLICABLE LOCAL, STATE AND FEDERAL STATUTES AND CODES. FINAL INSPECTION BY THE ENGINEER SHALL BE CONDUCTED AFTER RECEIPT OF THE CERTIFICATE OF COMPLETION. NO LIFE SAFETY DEFICIENCIES IN THE EGRESS OR EXIT LIGHTING SYSTEMS, FIRE ALARM SYSTEM, OR THE EMERGENCY POWER SYSTEM SHALL BE PRESENT WHEN REQUESTING FINAL INSPECTION. PREMATURE REQUESTS FOR FINAL INSPECTIONS THAT REQUIRE REINSPECTION OF DEFICIENT ITEMS WILL RESULT IN BACK CHARGES OF THE COSTS ASSOCIATED WITH THE REINSPECTION.

1.23. DRAWINGS AND SPECIFICATIONS:

1. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER, AND ANY LABOR OR MATERIAL CALLED FOR BY EITHER, WHETHER OR NOT BY BOTH, OR NECESSARY FOR THE SUCCESSFUL OPERATION OF ANY COMPONENTS SHALL BE PROVIDED. BEFORE INSTALLING ANY WORK, VERIFY THAT IT DOES NOT INTERFERE WITH THE CLEARANCES REQUIRED FOR OTHER WORK. INSTALLED WORK WHICH INTERFERES WITH EXISTING NECESSARY SERVICES SHALL BE MODIFIED AS DIRECTED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER. BE FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES TO PREVENT INTERFERENCES AND ASSURE COMPLETE COORDINATION. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO START AND OR CONTINUATION OF ANY WORK OR THE PROCUREMENT OF ANY MATERIALS AND EQUIPMENT.

PART 2 - PRODUCTS

2.1. FIRE ALARM SYSTEM: (RI ADDITION AND MODIFICATION)

1. GENERAL:
   A. PROVIDE AN ADDITION AND MODIFICATION TO THE EXISTING AUTOMATIC AND MANUAL, AUXILIARY CONNECTED FIRE ALARM SYSTEM, ACCORDING TO THE FOLLOWING SPECIFICATIONS TO BE WIRED, CONNECTED, TESTED AND LEFT IN FIRST CLASS OPERATING CONDITION. ALL EQUIPMENT SHALL BE UNDERWRITERS' LABORATORIES APPROVED FOR THE INTENDED USE AND SHALL MEET WITH THE APPROVAL OF THE LOCAL AUTHORITY. THE COMPLETE SYSTEM SHALL BE AS MANUFACTURED BY FCI. THE COMPLETE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE SECTIONS OF NFPA STANDARDS, SECTION 72, 101 LIFE SAFETY, THE STATE OF RHODE ISLAND BUILDING CODES, THE STATE OF RHODE ISLAND FIRE SAFETY CODES AND ALL LOCAL CODES AND REQUIREMENTS. ALL MODIFICATIONS TO CONTROL EQUIPMENT MUST BE WITH THE SAME BRAND OF EQUIPMENT AS THE EXISTING.
2. ALL DEVICES MUST BE U.L. LISTED AS COMPATIBLE WITH THE CONTROL EQUIPMENT. SUBMIT PROOF OF COMPATIBILITY WITH SHOP DRAWING SUBMITTAL.
3. REPLACE ANY EXISTING EQUIPMENT AND WIRING THAT IS NOT COMPATIBLE WITH THE EQUIPMENT THAT YOU PROVIDE OR THE MODIFICATIONS THAT YOU MAKE, WITHOUT ADDITIONAL COMPENSATION.
4. PROVIDE ADDITIONAL FIRE ALARM DEVICES AS SHOWN ON THE DRAWINGS. NEW DEVICES SHALL MATCH AND BE FULLY COMPATIBLE WITH EXISTING EQUIPMENT; PROVIDE IN WHITE FINISH UNLESS OTHERWISE NOTED. THE MANUFACTURE OF THE NEW EQUIPMENT SHALL MATCH EXISTING. EXTENSION OF EXISTING FIRE ALARM SYSTEM SHALL INCLUDE INFRASTRUCTURE UPGRADES INCLUDING EXISTING FIRE ALARM CONTROL PANEL, ADDITIONAL POWER SUPPLIES, AMPLIFIERS, BATTERIES, SOFTWARE AND ALL OTHER ADDITIONAL COMPONENTS AS REQUIRED TO PROVIDE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM. PRIOR TO SUBMITTING SHOP DRAWINGS THE ELECTRICAL CONTRACTOR AND/OR THEIR FIRE ALARM VENDOR SHALL FIELD VERIFY THAT THE EXISTING FIRE ALARM CONTROL PANEL IS EXPANDABLE AND IS NOT LIMITED TO SOFTWARE COMPATIBILITY, HARDWARE, AVAILABILITY OF PARTS, ETC. IF IT IS FOUND THAT THE EXISTING FIRE ALARM CONTROL PANEL CANNOT BE USED IN THE NEW DESIGN PER THE CONSTRUCTION DOCUMENTS, THEN THE ELECTRICAL CONTRACTOR SHALL PROVIDE SEPARATE PRICING FOR REPLACING THE CONTROL PANEL WITH A FULLY COMPATIBLE TYPE AND RE-PROGRAMING OF ALL EXISTING DEVICES AS REQUIRED.
5. AS IT IS NOT PRACTICAL TO ENUMERATE IN THESE SPECIFICATIONS ALL DETAILS OF FITTINGS AND ACCESSORY EQUIPMENT REQUIRED FOR PROPER OPERATION OF THE SYSTEM HEREIN DESCRIBED, IT IS UNDERSTOOD THAT THEY WILL BE SUPPLIED BY THE CONTRACTOR WITHOUT EXTRA COMPENSATION. PROVIDE ALL FITTINGS, TERMINATIONS, ETC., NEEDED FOR THE BEST PERFORMANCE POSSIBLE AT THE PRESENT STATE-OF-THE-ART.
6. WIRING: THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, ALL WIRING, CONDUIT AND OUTLET BOXES REQUIRED FOR INSTALLATION OF A COMPLETE SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE PLANS. PROVIDE ALL WIRING IN METALLIC RACEWAY. PROVIDE NO. 14 GAUGE, THWN, SOLID CONDUCTORS AND COLOR CODE AS REQUIRED.
7. TAG ALL WIRES AT ALL JUNCTION POINTS AND TEST FREE FROM GROUNDS OR CROSSES BETWEEN CONDUCTORS. CARRY THE WIRING SYSTEM THROUGH ALL EQUIPMENT. PROVIDE RED PAINTED TERMINAL CABINETS WITH HINGED LOCKABLE COVERS AT ALL JUNCTION POINTS. MAKE ALL CONDUCTOR SPLICES ON SCREW TYPE TERMINAL BLOCKS; WIRE NUTS SHALL NOT BE USED. PROPERLY LABEL ALL TERMINALS WITHIN TERMINAL CABINETS. MAKE FINAL CONNECTIONS BETWEEN CONTROL EQUIPMENT AND THE WIRING SYSTEM UNDER DIRECT SUPERVISION OF A REPRESENTATIVE OF THE MANUFACTURER.
8. SUBMIT COMPLETE DOCUMENTATION FOR THE FIRE ALARM/LIFE SAFETY SYSTEM SHOWING THE MODEL NUMBER, TYPE, RATING, SIZE, STYLE, MANUFACTURER'S NAMES, AND MANUFACTURER'S CATALOG DATA SHEETS FOR ALL ITEMS TO ENSURE COMPLIANCE WITH THESE SPECIFICATIONS.
9. UPON CONTRACT BID APPROVAL, AND PRIOR TO START OF SYSTEM INSTALLATION, SUBMIT SHOP DRAWINGS TO AND OBTAIN WRITTEN APPROVAL FROM THE FIRE DEPARTMENT, PRIOR TO ORDERING FIRE ALARM EQUIPMENT. GENERAL REQUIREMENTS ARE AS FOLLOWS:
   A. SYSTEM OPERATION DESCRIPTION: DETAILED DESCRIPTION FOR THIS PROJECT, INCLUDING METHOD OF OPERATION AND SUPERVISION OF EACH TYPE OF CIRCUIT AND SEQUENCE OF OPERATIONS FOR MANUALLY AND AUTOMATICALLY INITIATED SYSTEM INPUTS AND OUTPUTS. MANUFACTURER'S STANDARD DESCRIPTIONS FOR GENERIC SYSTEMS ARE NOT ACCEPTABLE.
   B. DEVICE ADDRESS LIST: COORDINATE WITH FINAL SYSTEM PROGRAMMING.
   C. SYSTEM RISER DIAGRAM WITH DEVICE ADDRESSES, CONDUIT SIZES, AND CABLE AND WIRE TYPES AND SIZES.
   D. WIRING DIAGRAMS: POWER, SIGNAL, AND CONTROL WIRING. INCLUDE DIAGRAMS FOR EQUIPMENT AND FOR SYSTEM WITH ALL TERMINALS AND INTERCONNECTIONS IDENTIFIED. SHOW WIRING COLOR CODE.
   E. BATTERIES: SIZE CALCULATIONS.
10. SUBMIT SHOP DRAWINGS TO AND OBTAIN WRITTEN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION, PRIOR TO ROUGHING. RESUBMIT IF REQUIRED TO MAKE CLARIFICATIONS OR REVISIONS TO OBTAIN APPROVAL. ON RECEIPT OF COMMENTS FROM AUTHORITIES HAVING JURISDICTION, SUBMIT THEM TO ENGINEER FOR REVIEW.
11. GUARANTEE AND FINAL TEST: GUARANTEE ALL NEW EQUIPMENT AND WIRING TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SERVICES OF THE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR FOR TIE-IN OF NEW FIRE ALARM CIRCUITRY.
12. BEFORE THIS INSTALLATION SHALL BE CONSIDERED COMPLETE AND ACCEPTABLE TO THE AWARDING AUTHORITIES, A COMPLETE TEST ON THE SYSTEM SHALL BE PERFORMED AS FOLLOWS: THE ELECTRICAL CONTRACTOR'S JOB FOREMAN, IN THE PRESENCE OF A REPRESENTATIVE OF THE FIRE ALARM MAINTENANCE CONTRACTOR, FIRE ALARM MANUFACTURER AND A REPRESENTATIVE OF THE LOCAL FIRE DEPARTMENT, SHALL OPERATE EACH ALARM INITIATING DEVICE AND VERIFY ZONE ANNUNCIATION, AUDIBLE AND VISUAL SIGNALING AND PROPER OPERATION OF THE MASTER BOX. EACH CIRCUIT SHALL BE OPENED AT ITS MOST REMOTE POINT TO CHECK FOR THE CORRECTNESS OF THE SUPERVISORY CIRCUITRY. WHEN THE ABOVE TEST HAS BEEN COMPLETED TO THE SATISFACTION OF THE MANUFACTURER'S REPRESENTATIVE, THE ELECTRICAL SUBCONTRACTOR'S JOB FOREMAN, AND THE LOCAL FIRE DEPARTMENT, A LETTER WITNESSED AND CO-SIGNED BY ALL ATTESTING TO THE COMPLETION OF THIS TESTING SHALL BE FORWARDED TO THE ENGINEER. TEST TO INCLUDE BOTH NEW AND EXISTING WIRING AND EQUIPMENT.
13. DURING THE GUARANTEE PERIOD, 24 HOUR SERVICE (365 DAYS/YEAR) IS REQUIRED OF THE CONTRACTOR AND EQUIPMENT SUPPLIER.
14. QUARTERLY TESTING, AS REQUIRED BY THE RHODE ISLAND FIRE SAFETY CODE IS NOT PART OF THIS CONTRACT.
15. SERVICE CALLS RESULTING FROM ACTS OF VANDALISM, ACTS OF NATURE, OR ACTS WHICH ARE BEYOND THE CONTROL OF THE EQUIPMENT MANUFACTURER ARE EXCLUDED UNDER THE GUARANTEE AND SHALL BE CONSIDERED A BILLABLE CALL.

2.2. WIRE AND CABLE:

1. WIRING SHALL BE TYPE THHN/THWN OR XHHW, MINIMUM OF #12 AWG SOLID COPPER WITH CONDUCTIVITY OF NOT LESS THAN 98% OF THE ANSI STANDARD FOR ANNEALED COPPER, UL LISTED FOR BUILDING WIRE 90 DEGREES CELSIUS. WET OR DRY LOCATIONS RATED FOR 600V SERVICE. MC AND FAMC CABLING CAN BE USED WHERE CONCEALED. CONDUCTORS LARGER THAN #10 SHALL BE STRANDED. COLOR CODING SHALL BE CONSISTENT THROUGHOUT.

2.3. CONDUIT:

1. ELECTRIC METALLIC TUBING SHALL BE ELECTRO-GALVANIZED SHERARDIZED STEEL. WHERE EXPOSED, ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL ROUTING OF CONDUIT SHALL BE RUN PERPENDICULAR TO BUILDING WALLS. ALL ELECTRIC METALLIC TUBING SHALL BE UTILIZED WITH STEEL SET SCREW TYPE FITTINGS. CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE; AND SHALL BE INDEPENDENT OF DUCTS, PIPES, CEILING AND THEIR SUPPORTING MEMBERS.

2.4. MISCELLANEOUS CONDUIT FITTINGS:

1. PROVIDE WATER-TIGHT GLAND SEALING ASSEMBLIES WITH PRESSURE BUSHINGS EQUAL TOOZ/GEDNEY TYPE WSK FOR NEW CAST-IN-PLACE INSTALLATIONS OR TYPE CSCM FOR RETROFIT (CORE DRILLING OF EXISTING WALLS) AS REQUIRED FOR BELOW GRADE WALL AND FLOOR PENETRATIONS.

2.5. WIRING DEVICES:

A. LIGHT SWITCHES:
   A. REFER TO DRAWINGS
   B. COLOR OF SWITCHES SHALL BE AS SELECTED BY ARCHITECT.
B. OCCUPANCY SENSORS:
   A. REFER TO DRAWINGS
C. RECEPTACLES:
   A. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE GROUNDING TYPE, RATED 20 AMPERES, 125 VOLTS. RECEPTACLES SHALL BE BACK AND SIDE WIRED WITH SCREW TYPE TERMINALS HAVING SUITABLE CONDUCTOR RELEASE ARRANGEMENT. GFCI RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMPERES, 125 VOLTS.
   B. COLOR OF RECEPTACLES SHALL BE AS SELECTED BY ARCHITECT.

2.6. LIGHTING FIXTURES:

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION OF THE LIGHTING EQUIPMENT SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE.
2. INTERIOR LIGHTING FIXTURES SHALL BE 3500°K AND EXTERIOR SHALL BE 4100°K UNLESS OTHERWISE NOTED.
3. LIGHTING FIXTURES SHALL BE SUPPORTED ABOVE CEILING FROM STRUCTURAL FLOOR OF ROOF VIA #12 JACK CHAIN AND "Y" HANGERS FROM TWO OPPOSITE CORNERS.
4. EXIT SIGNS SHALL BE TYPICALLY MOUNTED ON CEILING WHERE VISIBLE OR ON WALL WHERE CEILING MOUNTING IS NOT PRACTICAL. PRIOR TO ROUGHING COORDINATE WITH ARCHITECTURAL DRAWINGS/ELEVATIONS FOR SPECIFIC MOUNTING DIRECTION AND FOR LOCATION.
5. WHERE LIGHTING FIXTURES OTHER THAN THE SPECIFIED PRODUCTS ARE PROVIDED, THE CONTRACTOR SHALL PROVIDE LIGHT LEVEL CALCULATIONS IN ACCORDANCE WITH IESNA STANDARDS TO JUSTIFY THAT SUBSTITUTED FIXTURES ARE OR EQUAL PERFORMANCE TO THE SPECIFIED PRODUCTS (APPLIES TO ALL LIGHTING FIXTURES IN ALL SPACES).
6. WHERE SUBMITTING TO ENGINEER FOR REVIEW THE LIGHTING FIXTURE SUBMITTALS SHALL CONSIST OF THE FOLLOWING: LIGHTING FIXTURE CUT SHEET, LIGHTING FIXTURE BALLAST/DRIVER CUT SHEET, AND LIGHTING FIXTURE LAMP/LED CUT SHEET FOR EACH FIXTURE. GROUPED CUT SHEETS WILL NOT BE ALLOWED. WHEN SUBMITTING ON LED PRODUCTS PROVIDE LIGHTING FACTS, LM-79 AND LM-80 TEST REPORTS FOR REVIEW.

2.6. OUTLET BOXES:

1. PROVIDE OUTLET BOXES AS REQUIRED FOR ALL ELECTRICAL DEVICES AND EQUIPMENT. MINIMUM SIZE OF BOXES SHALL BE 4", 1-1/4" DEEP. ALL OUTLET BOXES SHALL BE GALVANIZED STEEL.

2.7. PULL BOXES, JUNCTION BOXES AND WIREWAYS:

1. PULL BOXES SHALL BE OF CODE GAUGE GALVANIZED STEEL WITH SCREW COVERS TO MATCH. PULL BOXES AND WIREWAYS SHALL BE AS SHOWN ON CONTRACT DRAWINGS AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND/OR JOB CONDITIONS, WITH STEEL BARRIERS SEPARATING SYSTEMS.
2. WIREWAYS SHALL BE OF CODE GAUGE STEEL, BAKED ENAMEL MANUFACTURED STANDARD SECTIONS AND STEEL FITTINGS, WITH COMBINATION HINGED AND SCREW COVERS.
3. CONDUCTORS PASSING THROUGH PULL BOXES AND WIREWAYS SHALL BE IDENTIFIED TO INDICATE THEIR ORIGIN AND TERMINATION. PROVIDE NAMEPLATES FOR ALL PULL BOXES.
4. WEATHERPROOF JUNCTION BOXES INSTALLED IN GRADE SHALL BE POLYMER CONCRETE WITH CASKETED COVER, MINIMUM 6"x8".

2.8. THERMAL SWITCHES:

1. THERMAL SWITCHES SHALL BE NEMA TYPE 1 TOGGLE SWITCH FOR NORMAL DUTY WITH THERMAL OVERLOAD RELAY.
2. SWITCH ENCLOSURES SHALL BE OF A TYPE APPROVED FOR THE LOCATION AND ATMOSPHERE IN WHICH IT IS MOUNTED.
3. THERMAL SWITCHES SHALL BE INSTALLED WHERE CALLED FOR OR WHERE REQUIRED BY CODE.
4. THERMAL SWITCHES SHALL BE PROVIDED WITH PILOT WHERE CALLED FOR ON THE DRAWINGS.

2.9. CIRCUIT BREAKERS FOR EXISTING PANELBOARDS:

1. CIRCUIT BREAKERS SHALL BE EQUAL TO THE EXISTING CIRCUIT BREAKERS AND OF THE SAME MANUFACTURER AS THE EXISTING PANELBOARDS IN WHICH THEY ARE TO BE INSTALLED.
2. PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORY CARDS INDICATING AREAS AND DEVICES SERVED BY EACH CIRCUIT IN ALL EXISTING PANELBOARDS PANELS AFFECTED BY THE WORK OF THIS PROJECT.

2.10. TELECOMMUNICATION OUTLETS:

1. FURNISH AND INSTALL TELECOMMUNICATION OUTLETS, BOXES, AND CONDUIT FOR ALL TELECOMMUNICATION OUTLET LOCATIONS INDICATED ON THE DRAWINGS, PROVIDE BACK BOXES, CONDUIT, PULLSTRINGS, ETC. AS PER DRAWINGS.

2.11. PANELBOARDS:

1. AT EACH LOCATION INDICATED ON THE PLANS, FURNISH AND INSTALL AN APPROPRIATE PANEL OF THE AMPACITY AND VOLTAGE RATING SHOWN ON THE DRAWINGS.
2. ALL PANELS SHALL BE OF THE SAFETY DEAD FRONT CIRCUIT BREAKER TYPE FOR SERVICE ON THREE PHASES, FOUR WIRE MAINS UNLESS OTHERWISE SPECIFIED.
3. ALL PANELS SHALL BE OF CODE GAUGE STEEL.
4. PANELS SHALL BE SURFACE OR FLUSH MOUNTED, AS INDICATED ON THE PLANS, AND INSTALLED SO THAT THE TOP CIRCUIT BREAKER IS NO MORE THAN 6'-0"ABOVE THE FINISHED FLOOR.
5. THE PANELBOARDS SHALL BEAR THE UNDERWRITERS' LABORATORIES LABEL.
6. ALL BUSES SHALL BE COPPER.
7. ALL PANELBOARDS SHALL HAVE A CIRCUIT DIRECTORY CARD MOUNTED IN A FRAME WITH PLASTIC COVER INSTALLED ON THE INSIDE OF THE DOOR.
8. ALL DIRECTORY CARDS SHALL BE PROPERLY FILLED IN, USING A TYPEWRITER, AND INDICATING AREAS AND DEVICES SERVED BY EACH CIRCUIT.
9. ALL CIRCUIT BREAKERS SHALL BE OF QUICK-MAKE AND QUICK-BREAK TYPE ON MANUAL OPERATION, TRIP-FREE, AND WITH INVERSE TIME CHARACTERISTICS AND SHALL HAVE BOLTED BUS CONNECTIONS; PLUG-IN CIRCUIT BREAKERS WILL NOT BE ALLOWED.
10. PANELBOARD TRIMS SHALL BE DOOR-IN-DOOR DESIGN.
11. TRIMS AND DOORS SHALL BE MADE OF CODE GAUGE, FULL FINISH SHEET STEEL.
12. THE TRIM AND DOORS SHALL BE FACTORY FINISHED ON BOTH SIDES.
13. ALL PANELBOARDS SHALL BE KEYED ALIKE.
14. PANELBOARDS SHALL CONTAIN CIRCUIT BREAKERS INDICATED ON PANELBOARD SCHEDULE ON THE DRAWINGS.
15. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP TYPE.
16. ALL PANELBOARDS SHALL BE EQUIPPED WITH A NEUTRAL BAR HAVING ONE SOLDERLESS CONNECTOR FOR EACH CIRCUIT AS INDICATED AND WITH ALL REQUIRED KNOCKOUTS.
17. NEW PANELBOARDS SHALL BE MANUFACTURED BY SQUARE D COMPANY TO MATCH EXISTING.

2.12. DISCONNECT SWITCHES:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECTING MEANS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR ALL MOTORS.
2. MANUAL MOTOR STARTERS SHALL HAVE QUICK MAKE, QUICK BREAK TOGGLE MECHANISMS WITH ALLOWANCE FOR UP TO 10% FIELD ADJUSTMENT TO NOMINAL OVERLOAD HEATER VALUES.
3. DISCONNECT SWITCHES SHALL BE FUSED OR UNFUSED AS SHOWN ON THE DRAWINGS, OR AS REQUIRED, NEMA TYPE HD SAFETY SWITCHES FOR HEAVY DUTY, WITH INTERLOCKING COVER, SIDE OPERATED WITH PROVISIONS FOR PADLOCKING THE SWITCH HANDLE IN THE OFF POSITION.
4. ALL MOTOR ISOLATING SWITCHES INDICATED ON THE DRAWINGS SHALL BE RATED IN HORSEPOWER, AND SHALL BE RATED FOR THE VOLTAGE OF THE MOTOR AND SHALL BE FURNISHED AND INSTALLED AT THE MOTOR LOCATION WHETHER OR NOT THE MOTOR IS WITHIN SIGHT OF THE MOTOR FEEDER DISCONNECTING MEANS.
5. DISCONNECT SWITCH ENCLOSURES SHALL BE OF THE PROPER NEMA TYPE FOR THE INTENDED LOCATION AS DEFINED BY NEMA AND SHALL BE PHOSPHATE COATED OR EQUIVALENT CODE GAUGE GALVANIZED SHEET STEEL WITH USAFI NO. 24 DARK GRAY BAKED ENAMEL FINISH.
6. FUSES SHALL BE CLASS RK-1 SIZED PER DRAWING AND NAMEPLATE REQUIREMENTS.
7. INSTALL REJECTION CLIPS TO PROHIBIT INSTALLATION OF OTHER THAN CURRENT LIMITING FUSES.
8. DISCONNECT SWITCHES SHALL BEAR THE UNDERWRITERS' LABORATORIES LABEL AND BE MANUFACTURED BY SQUARE D COMPANY, EATON/CUTLER-HAMMER, OR SIEMENS.

2.13. MOTOR STARTERS:

1. ALL MOTOR STARTERS SHALL BE OF THE MAINTAINED CONTACT TYPE AND HAVE INDIVIDUAL RUNNING OVERLOAD PROTECTION IN EACH PHASE AND SHALL BE PROVIDED WITH TWO SETS OF AUXILIARY CONTACTS (ONE NORMALLY OPEN AND ONE NORMALLY CLOSED).
2. STARTERS SHALL BE OF SIZE AND TYPE REQUIRED FOR THE PARTICULAR MOTOR HORSEPOWER AND VOLTAGE.
3. STARTERS SHALL BE PROVIDED WITH SELECT R CLASS FUSING IN ACCORDANCE WITH NEC REQUIREMENTS OR ADJUST MOTOR CIRCUIT PROTECTORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. LOCATE STARTERS ADJACENT TO PANEL FEEDING SAME UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
5. MANUAL STARTERS SHALL BE OF THE TOGGLE MECHANISM TYPE FOR FULL VOLTAGE STARTING.
6. MAGNETIC STARTERS SHALL BE ACROSS-THE-LINE TYPE, WITH MEANS FOR REMOTE CONTROL, EXCEPT MAINTAINED CONTACT TYPE STARTERS SHALL BE USED ONLY WHERE NOTED FOR SPECIFIC ITEMS OF EQUIPMENT.
7. ALL STARTERS SHALL HAVE OVERLOAD RESET BUTTON, PILOT LIGHT TO INDICATE ON OR OFF AND HAND-OFF-AUTO SWITCH IN COVER UNLESS OTHERWISE INDICATED.
8. STARTERS SHALL BE FURNISHED IN THE ENCLOSURES CALLED FOR ON THE DRAWINGS AND SHALL BE GROUPED WHENEVER POSSIBLE.
9. 1MOTOR STARTERS, WHERE GROUPED, SHALL BE MOUNTED ON A NEW 3/4" THICK EXTERIOR GRADE PLYWOOD MOUNTING BOARD FINISHED TO MATCH STARTER ENCLOSURES.
10. ALL STARTERS AND REMOTE CONTROL STATIONS FURNISHED UNDER THIS SECTION SHALL HAVE LAMINATED PLASTIC ENGRAVED NAMEPLATES DESIGNATING THE EQUIPMENT CONTROLLED. LETTERS SHALL BE 1/4" HIGH.
11. ALL MAGNETIC STARTERS FURNISHED UNDER THIS SECTION WHICH ARE CONNECTED TO CIRCUITS OPERATING AT MORE THAN 120V SHALL HAVE BUILT-IN CONTROL TRANSFORMERS WITH 120V SECONDARY CONTROL SUPPLY.
12. THERMAL TRIPS FOR ALL MOTOR STARTERS SHALL BE AMBIENT TEMPERATURE COMPENSATED.
13. MOTOR STARTERS AND CONTROLS SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, OR EQUAL.

PART 3 - EXECUTION

3.1. GENERAL:

ALL INTERRUPTIONS AND SHUTDOWNS OF EXISTING ELECTRICAL SYSTEMS AND SERVICES SHALL BE AS SHORT AS POSSIBLE AND AT TIME AND DURATION APPROVED BY THE OWNER AND THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL PREMIUM TIME ASSOCIATED WITH THE SYSTEM AND SERVICE INTERRUPTIONS AND SHUTDOWNS.

3.2. CLEANING, ADJUSTING, AND TESTING:

1. AT THE COMPLETION OF THE WORK, ALL PARTS OF THE INSTALLATION SHALL BE THOROUGHLY CLEANED. ALL DEVICES, EQUIPMENT, CONDUITS, AND FITTINGS SHALL BE COMPLETELY CLEANED OF GREASE, METAL CUTTINGS, DIRT WHICH MAY HAVE ACCUMULATED DURING CONSTRUCTION, AND PROTECTION COVERS.
2. ANY DISCOLORATION OR DAMAGE TO PARTS OF THE BUILDING, ITS FINISH OR FURNISHINGS DUE TO FAILING TO PROPERLY CLEAN THE ELECTRICAL SYSTEM SHALL BE REPAIRED BY THE ELECTRICAL CONTRACTOR WITHOUT COST TO THE OWNER.
3. THE ELECTRICAL CONTRACTOR SHALL TEST ALL WORK AND EQUIPMENT AS DIRECTED BY THE ARCHITECT AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, FURNISH ALL EQUIPMENT, NECESSARY PERSONNEL AND THE ELECTRICAL POWER.
4. THE ENTIRE INSTALLATION SHALL BE TESTED FOR SHORTS, GROUNDS AND OPEN CIRCUITS AND ALL DEFECTS SHALL BE CORRECTED BEFORE ACCEPTANCE OF HIS WORK.
5. ALL WORK SHALL BE DEMONSTRATED TO BE IN PROPER OPERATING CONDITION TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND OWNER.

3.3. EQUIPMENT CONNECTIONS:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL SERVICE, INCLUDING POWER CABLES, BRANCH CIRCUIT EXTENSIONS, FIRE ALARM CABLES, MOTORS, CONTROLLERS, LIGHTING FIXTURES AND ALL OTHER EQUIPMENT AND SYSTEMS SPECIFIED OR SHOWN ON THE DRAWINGS.

3.4. GROUNDING AND BONDING:

1. PROVIDE GROUNDING AND BONDING METHODS IN ACCORDANCE WITH NEC CODE ARTICLE 250 AND LOCAL UTILITY COMPANY REGULATIONS.

3.5. CONDUIT WORK:

1. ALL WIRING SHALL BE INSTALLED IN HEAVY WALL GALVANIZED RIGID STEEL CONDUIT UNLESS OTHERWISE NOTED BELOW AND RUN CONCEALED EXCEPT AS INDICATED ON THE DRAWINGS.
2. BRANCH CIRCUIT WIRING IN HUNG CEILINGS, FURRED SPACES OR EXPOSED AND NOT SUBJECT TO PHYSICAL DAMAGE MAY BE INSTALLED IN ELECTRICAL METALLIC TUBING.
3. PANELBOARD FEEDERS MAY BE RUN IN ELECTRICAL METALLIC TUBING WHERE NOT SUBJECT TO PHYSICAL DAMAGE EXCEPT PANELBOARD FEEDERS RUN UNDERGROUND OR IN CONCRETE SLABS SHALL BE IN HEAVY WALL GALVANIZED RIGID STEEL CONDUIT AS SPECIFIED ABOVE OR PVC.
4. ALL EXPOSED CONDUIT WHERE INSTALLED EXPOSED BELOW THE 8' LEVEL AND SUBJECT TO PHYSICAL DAMAGE SHALL BE RIGID STEEL CONDUIT.
5. PROVIDE RIGID GALVANIZED STEEL CONDUIT SWEEPS, INCLUDING ELBOWS AND CONDUIT WHERE STUBBING UP THROUGH CONCRETE. PROVIDE TRANSITION FITTINGS AS REQUIRED.
6. PROVIDE RIGID GALVANIZED STEEL CONDUIT IN ELEVATOR SHAFTS, ELEVATOR MACHINE CONTROL ROOMS, AND FIRE PUMP ROOMS.
7. YPE MC CABLE MAY BE USED WHERE REQUIRED FOR "FISHING" INTO EXISTING WALL AND CEILING CAVITIES. PATIENT CARE AREAS OF HEALTHCARE OCCUPANCIES SHALL UTILIZED TYPE HCF MC CABLE FOR SAME EXISTING WALL AND CEILING CONDITIONS.
8. CONDUIT EXTENSIONS IN METAL PARTITIONS MAY BE MADE WITH FLEXIBLE METAL CONDUIT, WITH GROUNDING CONDUCTOR.
9. CONNECTIONS TO PORTABLE AND PERMANENTLY MOUNTED MOTORIZED EQUIPMENT AND MOTORS, AS WELL AS THE EQUIPMENT HOUSING, SHALL BE MADE WITH APPROVED LIQUID TIGHT FLEXIBLE METAL CONDUIT.
10. FLEXIBLE CONNECTIONS SHALL BE A MAXIMUM OF 18" LONG AND WITH GROUNDING CONDUCTOR.
11. FLEXIBLE CONNECTIONS SHALL BE USED PRIOR TO ATTACHMENT TO EQUIPMENT HOUSINGS.
12. CONDUIT ENDS SHALL BE CUT SQUARE, THREADED AND REAMED TO REMOVE BURRS AND SHARP EDGES.
13. FIELD THREADS SHALL BE OF THE SAME TYPE AND HAVE THE SAME EFFECTIVE LENGTH AS FACTORY CUT THREADS.
14. EXCESSIVE EXPOSED THREADS WILL NOT BE ALLOWED.
15. TURNS, WHEREVER REQUIRED IN EXPOSED CONDUIT RUNS SHALL BE MADE BY THE USE OF FACTORY-MADE BENDS, OR FIELD MADE BENDS.
16. CONDULETS, OR IN THE EVENT OF A MULTIPLICITY OF CONDUITS MAKING THE SAME TURN, A STEEL JUNCTION BOX WITH A REMOVABLE STEEL COVER MAY BE USED.
17. OFFSETS AND BENDS FOR CHANGES IN ELEVATION OF EXPOSED CONDUIT RUNS SHALL BE MADE AT WALLS OR BEAMS AND NOT IN OPEN SPACES BETWEEN WALLS OR BEAMS.
18. CONDUITS SHALL BE ROUTED SO AS NOT TO INTERFERE WITH THE OPERATION OF MAINTENANCE OF ANY EQUIPMENT.
19. THE ENTIRE JOB SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
20. STEEL SUPPORTS OR RACKS SHALL BE GALVANIZED STEEL CHANNEL AND FITTINGS, UNISTRUT, KINDORF, HUSKY PRODUCTS COMPANY, OR EQUAL.
21. ALL CONDUIT WORK SHALL BE CAREFULLY CLEANED AND DRIED INSIDE BEFORE THE INSTALLATION OF CONDUCTORS.
22. WIRE SHALL NOT BE PULLED INTO CONDUIT SYSTEM UNTIL BUILDING IS COMPLETED.
23. PLUG CONDUIT ENDS TO EXCLUDE DUST, MOISTURE, PLASTER OR MORTAR WHILE BUILDING IS UNDER CONSTRUCTION.
24. NO LUBRICANTS OR CLEANING AGENTS WHICH MIGHT HAVE A DELETERIOUS EFFECTS ON CONDUCTOR COVERINGS SHALL BE USED FOR DRAWING CONDUCTORS INTO RACEWAYS.
25. DRAWINGS, IN RELATION TO ROUTING OF CONDUITS, ARE DIAGRAMMATIC.
26. THE NUMBER AND SIZE OF CONDUITS AND WIRE SHALL BE FURNISHED AND INSTALLED AS INDICATED BY THE DRAWINGS.
27. CONDUITS SHALL BE ROUTED IN THE FIELD SO AS TO BE COORDINATED WITH THE BUILDING STRUCTURE.
28. CONCEALED CONDUIT SHALL BE AS SHORT AND DIRECT AS POSSIBLE.
29. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL TO WALLS, BEAMS AND COLUMNS AND WITH RIGHT ANGLE BENDS AND STEEL THREADED CONDUIT FITTINGS.
30. ALL CONDUIT IN CONCRETE SLABS SHALL BE RUN ABOVE BOTTOM STEEL REINFORCING, BELOW TOP REINFORCING AND COLUMN TIES.
31. CONDUITS PASSING THROUGH FLOORS, WALLS AND BEAMS SHALL BE OF SUCH SIZE, NUMBER AND IN SUCH LOCATIONS SO AS NOT TO IMPAIR THE STRENGTH OF THE CONSTRUCTION.
32. AT TIME OF ROUGHING CONDUITS IN CONCRETE SLAB AREA, PRIOR TO POURING OF SLAB, THE ELECTRICAL SUBCONTRACTOR SHALL CONSULT THE STRUCTURAL ENGINEER FOR COORDINATION AND APPROVAL OF SIZE, SPACING AND METHOD OF CONDUIT INSTALLATION IN SLABS AND WALLS, AS WELL AS PENETRATION OF SUCH.
33. PARTICULAR ATTENTION SHALL BE GIVEN TO THE INSTALLATION OF CONDUITS AT GROUPED AREAS, SUCH AS PANELBOARD, CABINET AND PULL BOX ENTRANCES.
34. ALL METAL CONDUIT BURIED IN THE EARTH OR FILL SHALL BE COATED WITH TWO COATS OF HEAVY ASPHALT PAINT OVER ITS ENTIRE LENGTH, INCLUDING COUPLINGS.
35. RACEWAYS IN CEILING SPACES SHALL BE ROUTED IN SUCH AN APPROVED MANNER AS TO ELIMINATE OR MINIMIZE THE NUMBER OF JUNCTION BOXES REQUIRED, BUT ALSO SHALL BE ROUTED IN AN ORDERLY AND ORGANIZED MANNER.
36. SUPPORT OF CONDUITS BY USE OF WIRE IS STRICTLY PROHIBITED.
37. CONDUITS SHALL BE SUPPORTED AND SECURED BY CONDUIT SUPPORT DEVICES.
38. WHERE RIGID METAL CONDUIT IS THREADED IN THE FIELD, A STANDARD CONDUIT CUTTING DIE PROVIDING 3/4" TAPER PER FOOT SHALL BE EMPLOYED.
39. THREADLESS COUPLING SHALL NOT BE USED ON RIGID METAL CONDUIT EXCEPT WHERE SPECIFICALLY ALLOWED BY THE ARCHITECT.
40. RUNNING THREADS SHALL NOT BE USED ON RIGID METAL CONDUIT.
41. CONDUIT WORK SHALL BE INSTALLED IN SUCH A MANNER TO KEEP EXPOSED THREADS TO AN ABSOLUTE MINIMUM, AND IN NO CASE SHALL MORE THAN THREE THREADS BE LEFT EXPOSED AFTER THE CONDUIT WORK IS MADE UP TIGHT.
42. THIS REQUIREMENT APPLIES TO ALL CONDUIT WORK, INCLUDING CONDUIT BURIED IN EARTH OR FILL OR IN CONCRETE.
43. MINIMUM SIZE CONDUIT SHALL BE 1/2" NOMINAL TRADE SIZE.
44. A MINIMUM 3/16" DIAMETER TWISTED NYLON PLASTIC TYPE FISH CORD SHALL BE FURNISHED AND INSTALLED IN ALL EMPTY RACEWAYS.
45. PROVIDE A TAG ON EACH END OF FISH CORD INDICATING THE LOCATION OF THE OTHER END.

3.6. FIRE STOPPING:

1. ELECTRICAL INSTALLATIONS IN HOLLOW SPACES, VERTICAL SHAFTS AND VENTILATION OR AIR HANDLING DUCTS SHALL BE SO MADE THAT THE POSSIBLE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION WILL NOT BE SUBSTANTIALLY INCREASED.
2. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE-RESISTANCE RATING. 3.7.

3.7. IDENTIFICATION:

1. NAMEPLATES SHALL BE FURNISHED AND INSTALLED ON THE METER CENTERS/SWITCHBOARD AND METER CENTERS/SWITCHBOARD CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, JUNCTION BOXES, CABINETS FOR ALL SPECIAL PURPOSE SWITCHES, MOTOR DISCONNECT SWITCHES, STARTERS AND OTHER CONTROLS FURNISHED UNDER THIS CONTRACT, TO DESIGNATE THE EQUIPMENT CONTROLLED AND FUNCTION.
2. NAMEPLATES SHALL BE LAMINATED WHITE BAKELITE WITH 1/4" HIGH BLACK RECESSED LETTERS.
3. NAMEPLATES SHALL BE SECURELY ATTACHED TO THE EQUIPMENT WITH GALVANIZED SCREWS OR RIVETS.
4. ADHESIVES OR CEMENTS WILL NOT BE PERMITTED.
5. ALL PULL BOXES AND JUNCTION BOXES SHALL BE IDENTIFIED AS TO SYSTEM AND FUNCTION BY MEANS OF BLACK FIBRE PEN.

END OF SPECIFICATIONS.

Certification

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04/10/2025

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Sheet Contents
ELECTRICAL SPECIFICATIONS

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TELECOMMUNICATIONS LEGEND AND ABBREVIATIONS

ABBREVIATIONS

℄	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
CT	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GFGI	GOVERNMENT FURNISHED - GOVERNMENT INSTALLED
GC	GENERAL CONTRACTOR
GND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT - SEE NEC ARTICLE 342
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE - NFPA 70
NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OSP	OUTSIDE PANT
PNL	PANEL
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMC	RIGID METAL CONDUIT - SEE NEC ARTICLE 344
RU	RACK UNIT; UNIT OF PATCH PANEL HEIGHT EQUAL TO 1.75 INCH
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SM	SINGLE-MODE (OPTICAL FIBER)
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF

TELECOM. NOTES

1. THE LOCATIONS AND ELEVATIONS OF TECHNOLOGY DEVICES SHOWN ON THESE DRAWINGS ARE SCHEMATIC UNLESS ACTUAL DIMENSIONS ARE SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECTURAL PLANS AND OBTAIN THE APPROVAL OF THE ARCHITECT FOR THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL DEVICES.
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
3. ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF DEVICE).
4. PROVIDE SUPPORTS AND ANCHORING FOR PIPING, CONDUIT, DUCTS, EQUIPMENT, AND OTHER NON-STRUCTURAL ELEMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE SOUND PUTTY PADS IN ALL BACK BOXES.
6. FIRESTOPPING: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS AND CONDUIT/SLEEVE OPENINGS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR APPLICABLE CODES.
7. ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250 AND ANSI/TIA-607-C.
8. LABEL ALL CLOSETS, RACKS, FRAMES, CABINETS, TERMINATION BLOCKS, CABLES, TERMINATIONS, RACEWAYS, ETC. IN ACCORDANCE WITH ANSI/TIA-606-C.
9. ALL COMMUNICATIONS RACEWAYS AND PATHWAYS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (E.G CAT.6). BASIC LINK CABLE LENGTH SHALL NOT EXCEED 295 FT (90M) FOR UTP CABLE, 150 FT (45M) FOR SERIES-6 COAXIAL CABLE.
10. ALL COMMUNICATIONS CABLE SHALL BE PLENUM RATED (CMP), RISER RATED (CMR) AND UNDERGROUND RATED (WATERBLOCK) ACCORDING TO USE AND ENVIRONMENTAL CONDITIONS.
11. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS AND WHERE CABLING ROUTES THROUGH METAL STUDS.
12. ALL NON-ARMORED FIBER OPTIC CABLE SHALL BE INSTALLED IN APPROVED INNERDUCT.
13. ALWAYS INSTALL LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. NEVER INSTALL CABLES IN SUCH A MANNER THAT THEY ARE SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER), HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING.
14. EXPOSED LOW-VOLTAGE CABLES SHALL NOT BE PAINTED. ANY PAINTED CABLES SHALL BE REMOVED AND REPLACED WITH NEW CABLES.
15. PROVIDE WEATHERPROOF, IN-USE COVER FOR EXTERIOR DATA DEVICES.
16. ALL CABLE TRAY MOUNTING HEIGHTS INDICATED ON FLOOR PLANS ARE TO THE BOTTOM OF CABLE TRAY SUPPORTS.
17. SEISMIC BRACING FOR ALL CABLE TRAYS SHALL BE PROVIDED AS REQUIRED BY CODE, LOCAL GOVERNING JURISDICTION AND CABLE TRAY MANUFACTURER SPECIFICATIONS.
18. ALL CABLE TRAY ROUTING THROUGH ELECTRICAL ROOMS SHALL BE FULLY ENCLOSED. REFER TO CABLE TRAY DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
19. CABLE TRAY AND CABLE ROUTING ARE INTENDED TO SUPPORT ALL TYPES OF TELECOMMUNICATIONS CABLING AS DEFINED IN TIA-569-D.
20. RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE INDICATED.
21. REUSABLE VELCRO TIES SHALL BE USED TO BUNDLE OR MANAGE CABLES. PLASTIC ZIP TIES ARE NOT APPROVED FOR USE.
22. SIZE AND ORIENTATION OF ALL TELECOM PULL-BOXES SHALL MEET OR EXCEED THE BICSI TDMM REQUIREMENTS.
23. ALL LOW-VOLTAGE CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL LOW-VOLTAGE CONDUIT 2" AND SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS.
24. ALL CONDUITS SHALL BE INSTALLED WITH PULL-STRINGS.

SYMBOLS LEGEND

RACEWAY LEGEND	
T ——— T ———	TELECOMMUNICATIONS CONDUIT
UT ——— UT ———	CONDUITS BELOW GRADE/SLAB OR EMBEDDED IN SLAB
J ——— J ———	CABLES ON J-HOOKS
○———	CONDUIT UP
●———	CONDUIT DOWN
I———	CONDUIT STUBBED OUT WITH BUSHING
◕	CONDUIT CROSS-SECTION
——— CT ———	TELECOMMUNICATIONS CABLE TRAY
▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮	TELECOMMUNICATIONS CABLE TRAY

MISCELLANEOUS SYMBOL LEGEND

◇ #	SHEET KEYNOTE
△ #	REVISION NUMBER
1 / T2.1	CALLOUT — CALLOUT NUMBER; SHEET NUMBER

TELECOM. WIRING DEVICE LEGEND

# ▽	TELECOMMUNICATIONS WALL MOUNTED OUTLET '#' DENOTES NUMBER OF CATEGORY 6 4-PAIR UTP CABLES
# ▽	COMBINATION POWER/TELECOM FLOOR BOX/POKE-THRU DEVICE PROVIDED BY ELECTRICAL CONTRACTOR '#' DENOTES NUMBER OF CATEGORY 6 4-PAIR UTP CABLES. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
AV ▽	AUDIO-VISUAL WALL MOUNTED OUTLET (1) HDMI CABLE
MM	AUDIO-VISUAL MULTIMEDIA IN-WALL STORAGE BOX

NOTES:

1. FOR TELECOMMUNICATIONS OUTLETS, PROVIDE BOX WITH CONDUIT FROM BOX TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM. INCLUDE PULL STRING AND TERMINATED WITH AN INSULATED BUSHING. BOXES SHALL BE RECESSED.
   1"C., 4 11/16" x 2 1/8" BOX WITH 5/8" RAISED
   SINGLE GANG PLASTER RING. RACO #259 & 843 OR EQUAL.
2. ALL CONDUITS, BACK BOXES AND PLASTER RINGS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELECOMMUNICATIONS CONTRACTOR SHALL COORDINATE AND VERIFY THE OUTLET LOCATIONS BY REFERRING TO THE ARCHITECTURAL DRAWINGS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS.

LEGEND NOTES

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

DRAWING LIST

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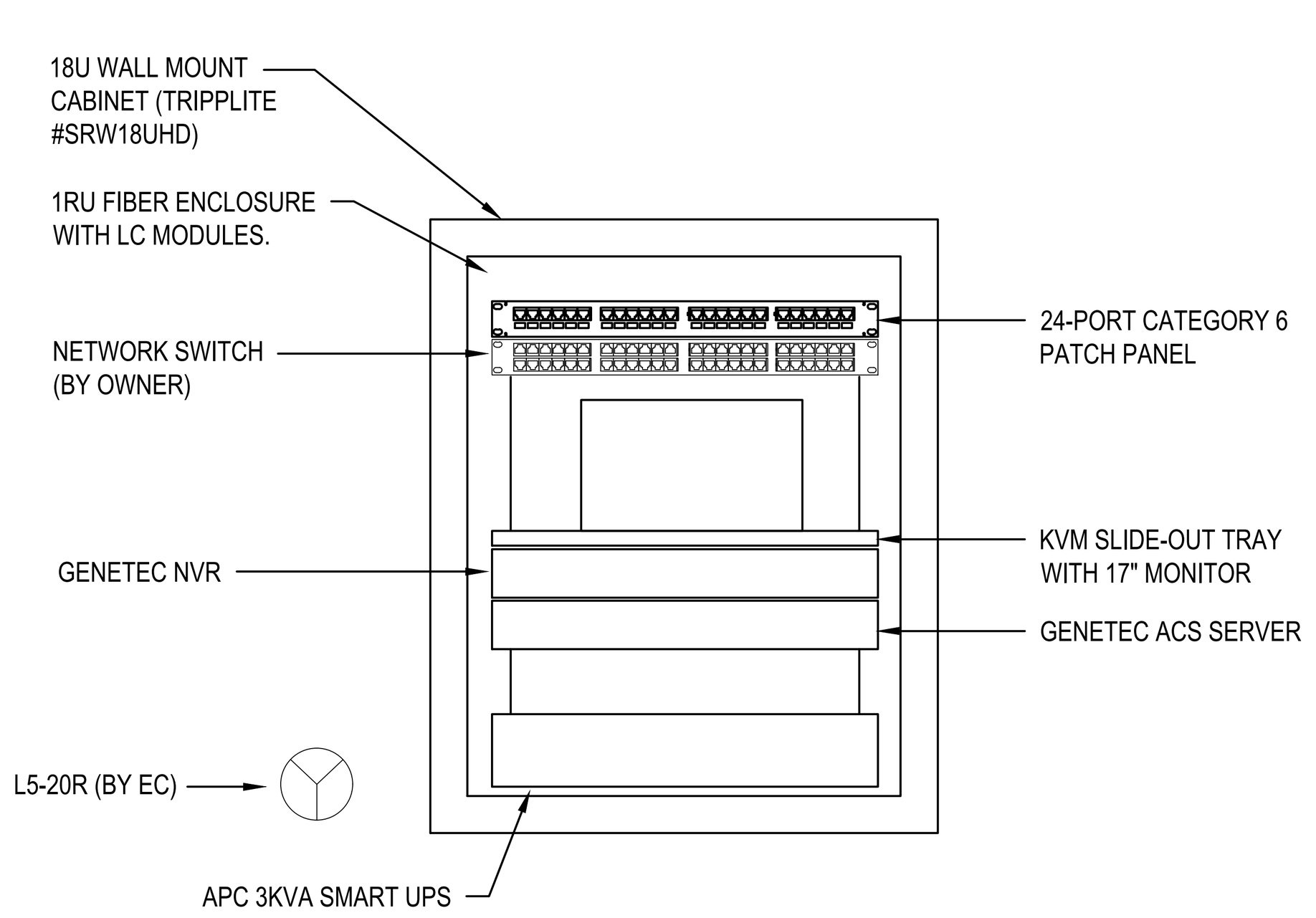
TELECOM LEGEND AND ABBREVIATIONS

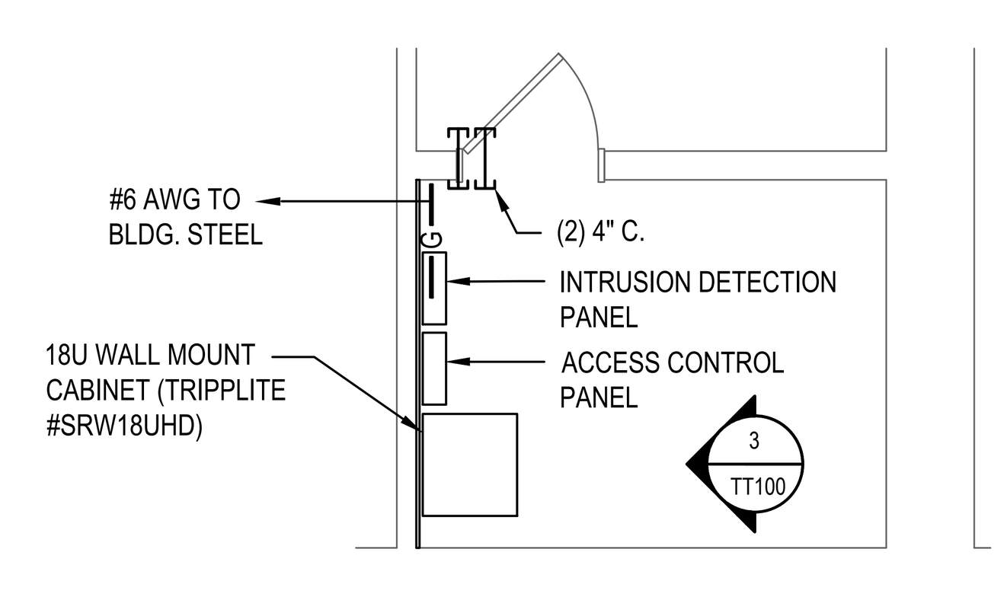
Project Number. 6846

Drawing No. TT001

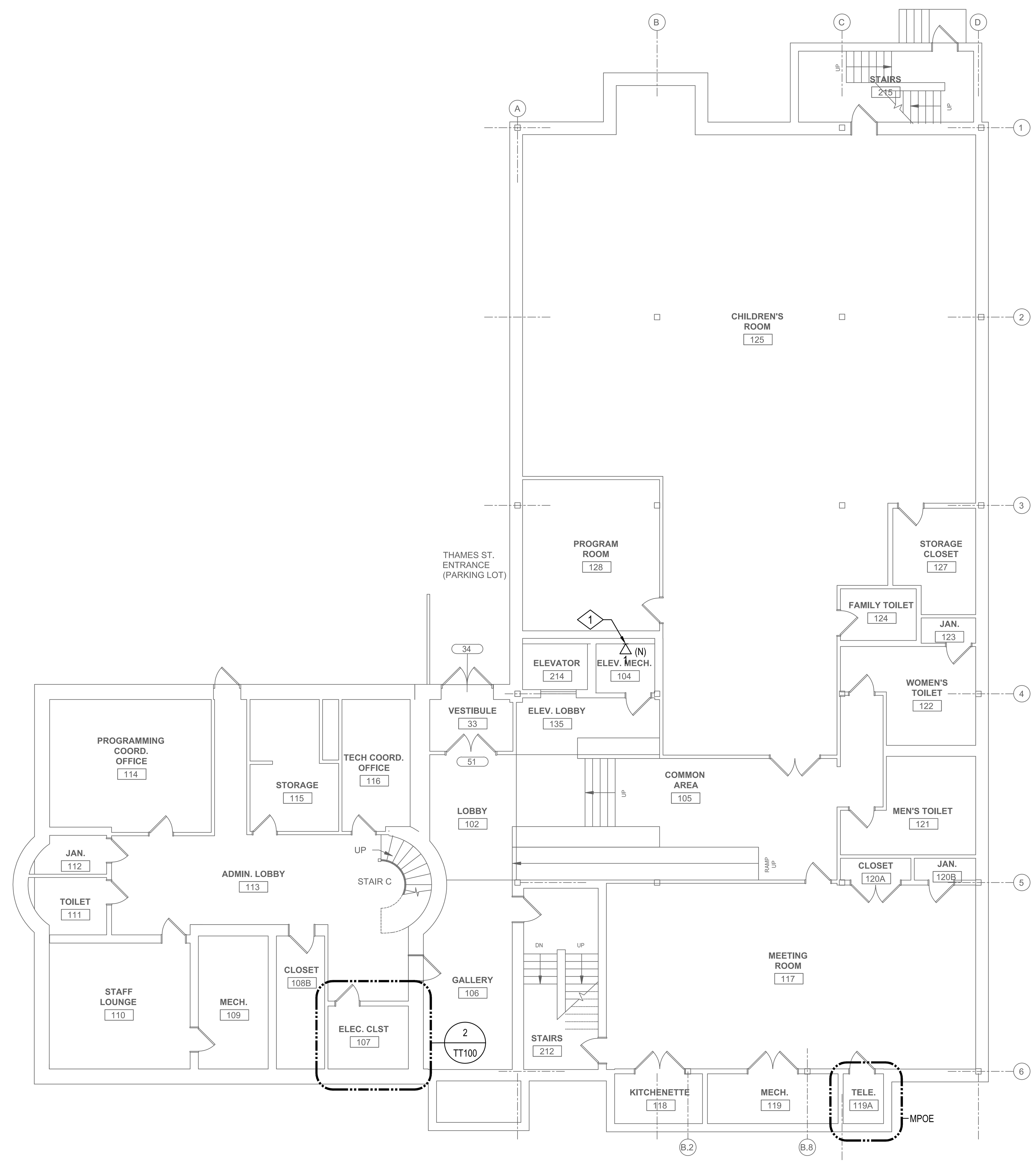
Sheet of



3 TT100 EQUIPMENT CABINET ELEVATION
Scale: NOT TO SCALE



2 TT100 ENLARGED STORAGE 107 PLAN
Scale: 1/4" = 1'-0"



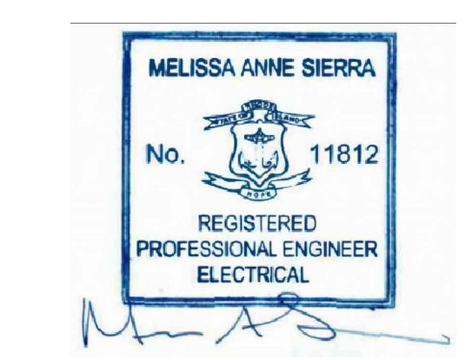
KEY NOTE:

1 FOR CAMERA IN ELEVATOR. PROVIDE 2-WIRE CONVERTER IN ELEVATOR MACHINE ROOM.

PLAN NORTH

1 TT100 FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

Certification



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TELECOM FIRST FLOOR PLAN

Project Number. 6846

Drawing No. TT100

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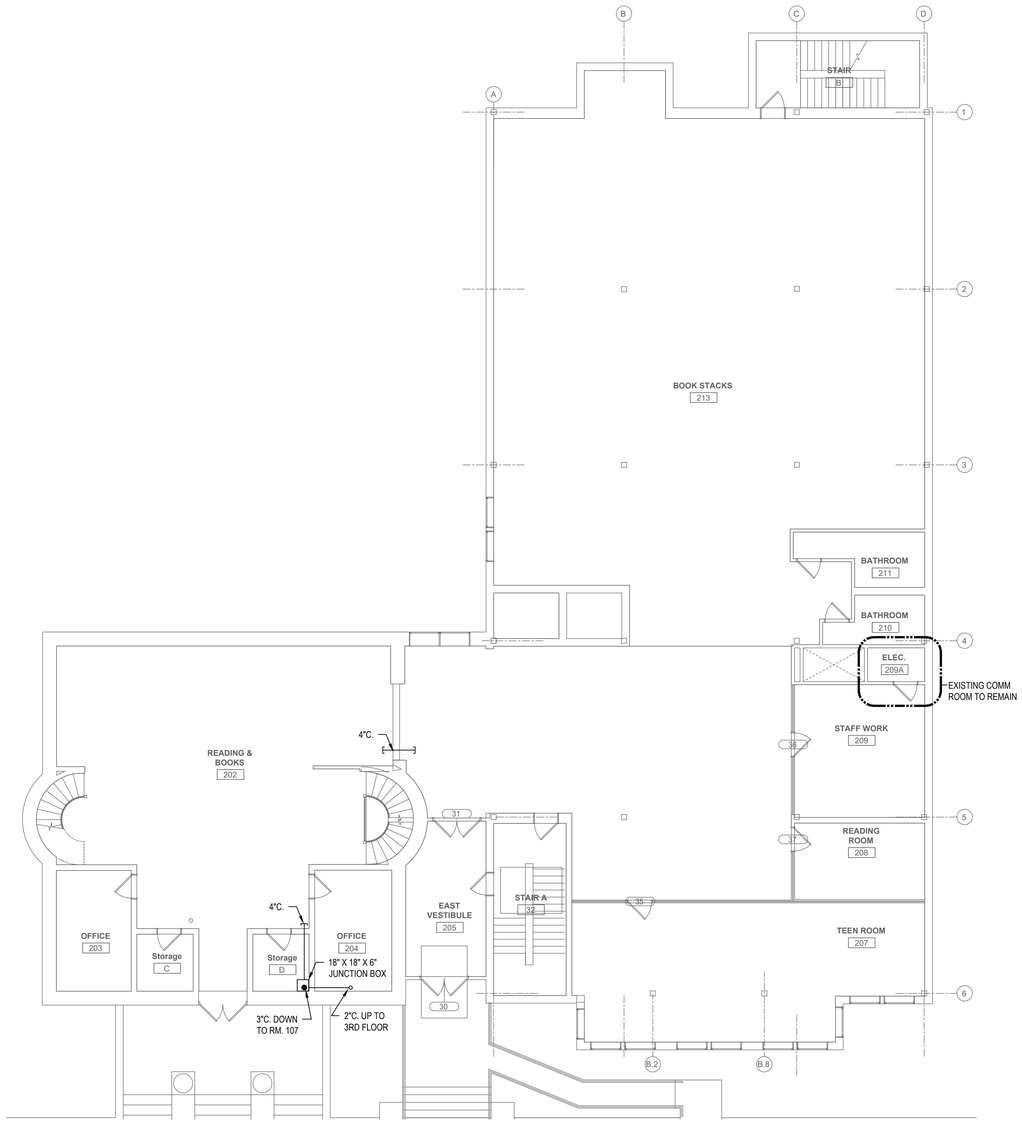
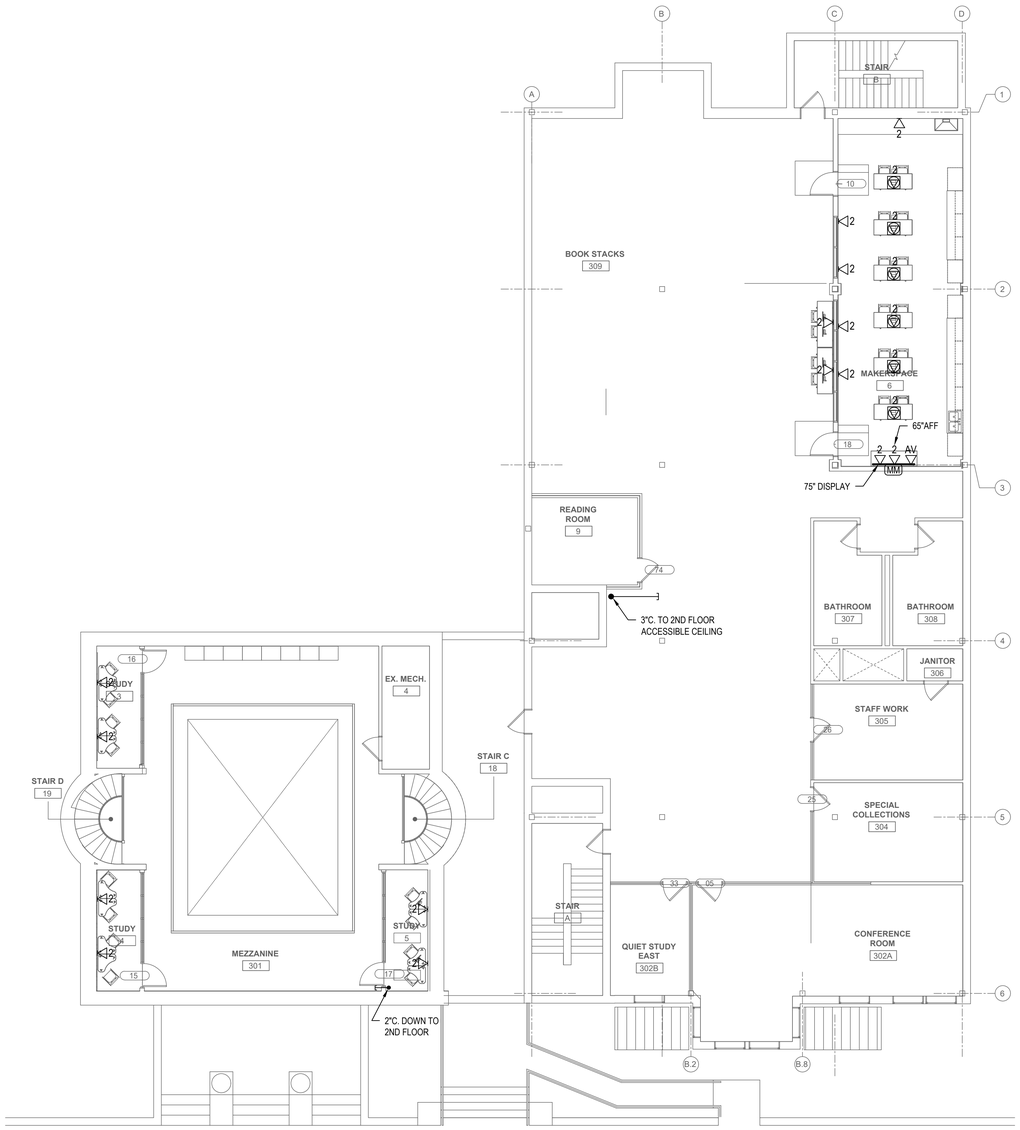


PLAN NORTH

2 TT101 SECOND FLOOR PLAN

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



PLAN NORTH

1 TT101 THIRD FLOOR PLAN

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

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TELECOM
SECOND & THIRD
FLOOR PLANS

Project Number. 6846

Drawing No. TT101

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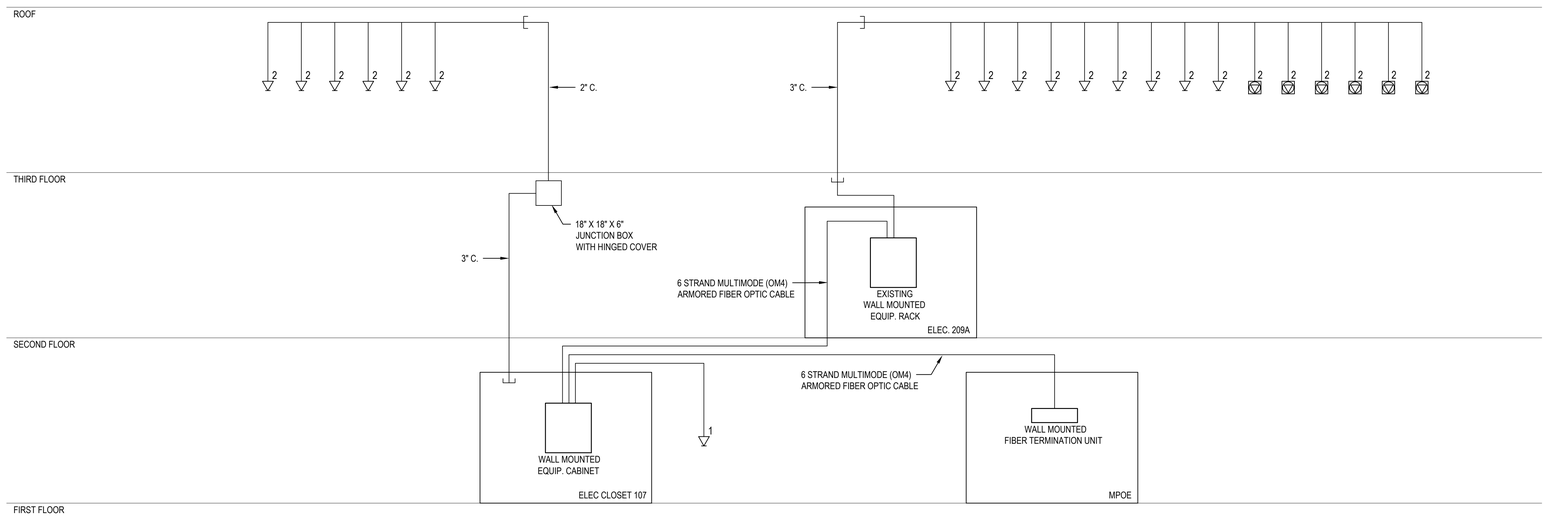

1 / TT201 TELECOM RISER DIAGRAM
SCALE: NTS

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TELECOM
RISER DIAGRAM

Project Number. 6846

Drawing No.

TT201

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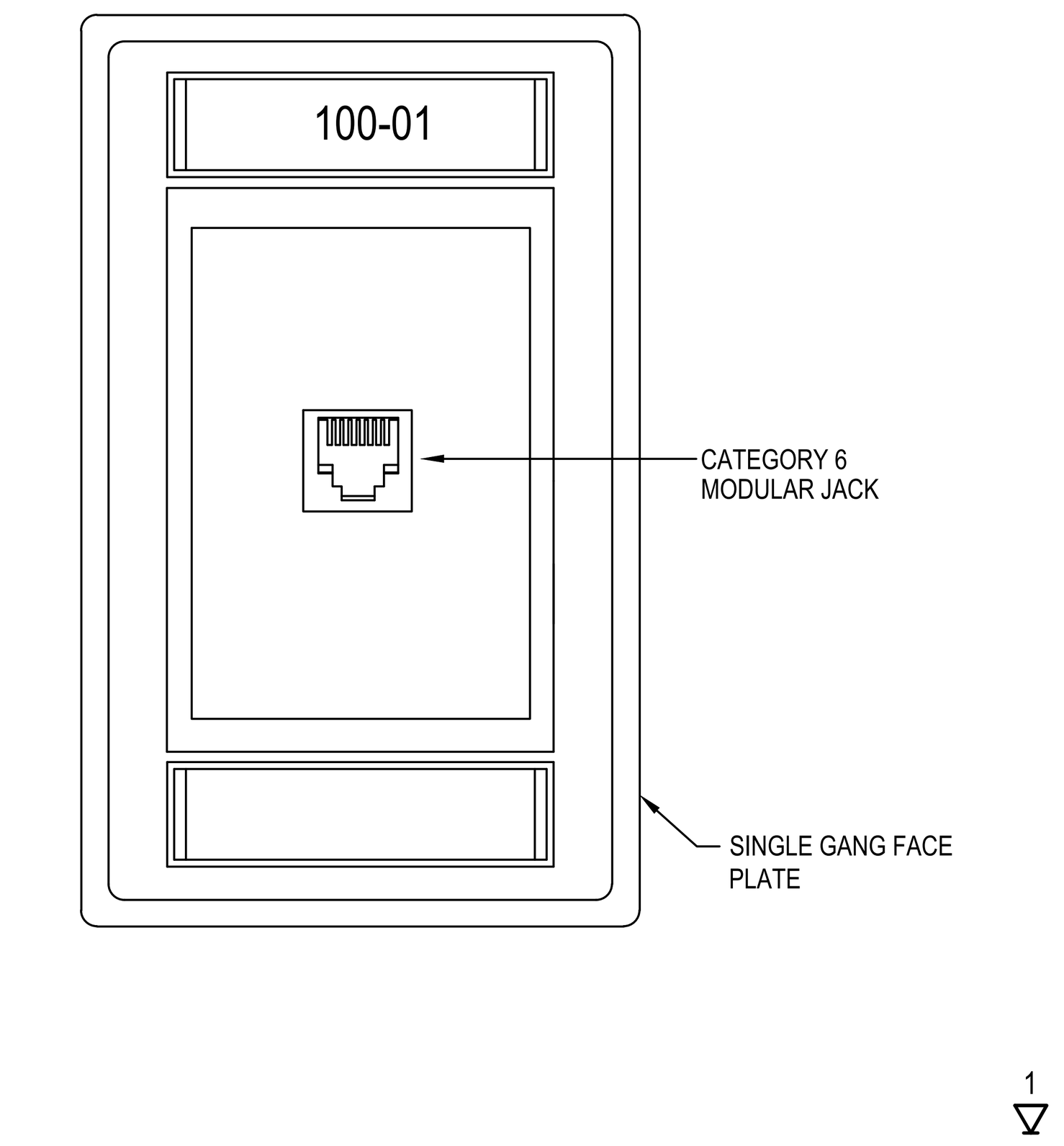
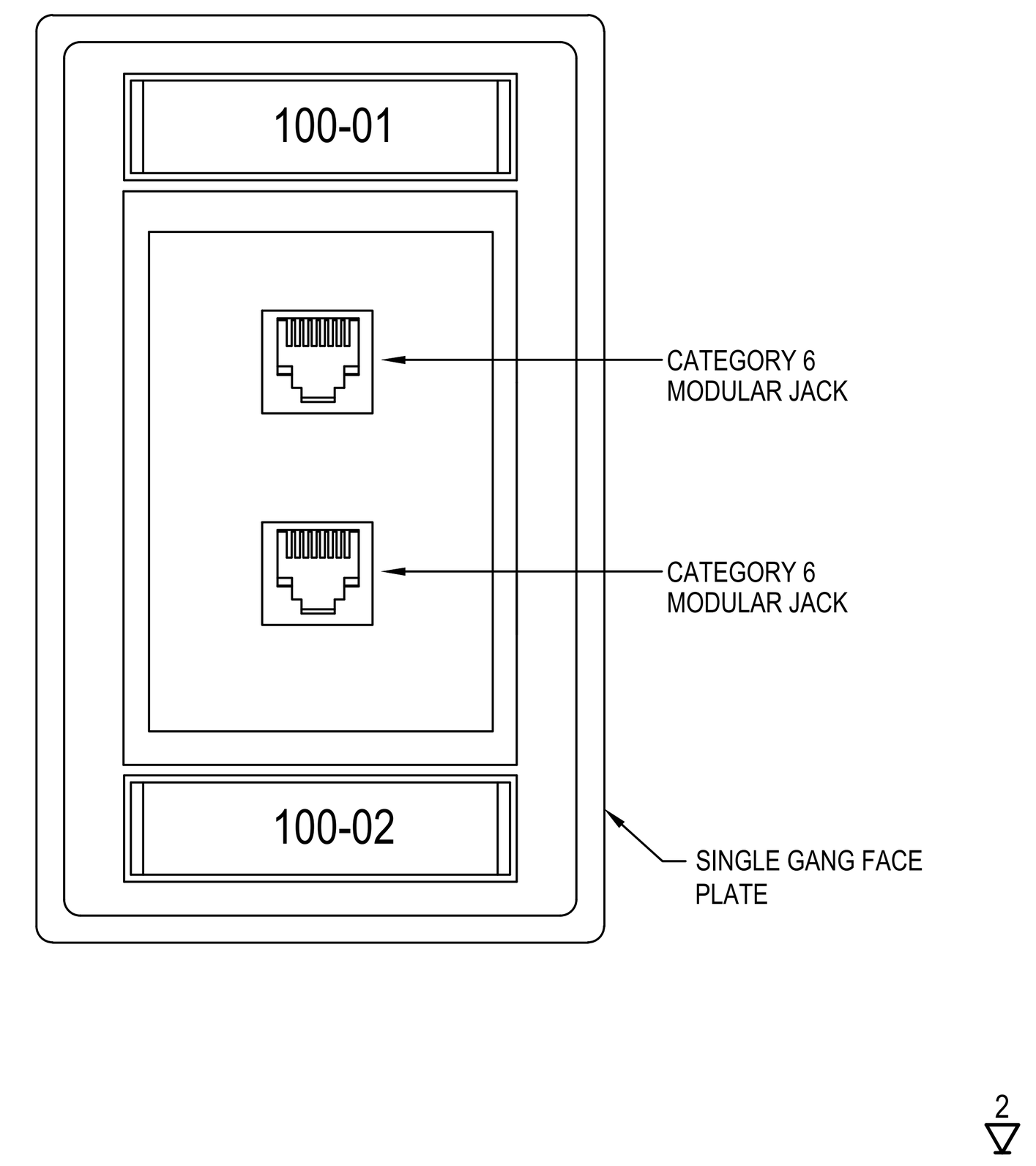


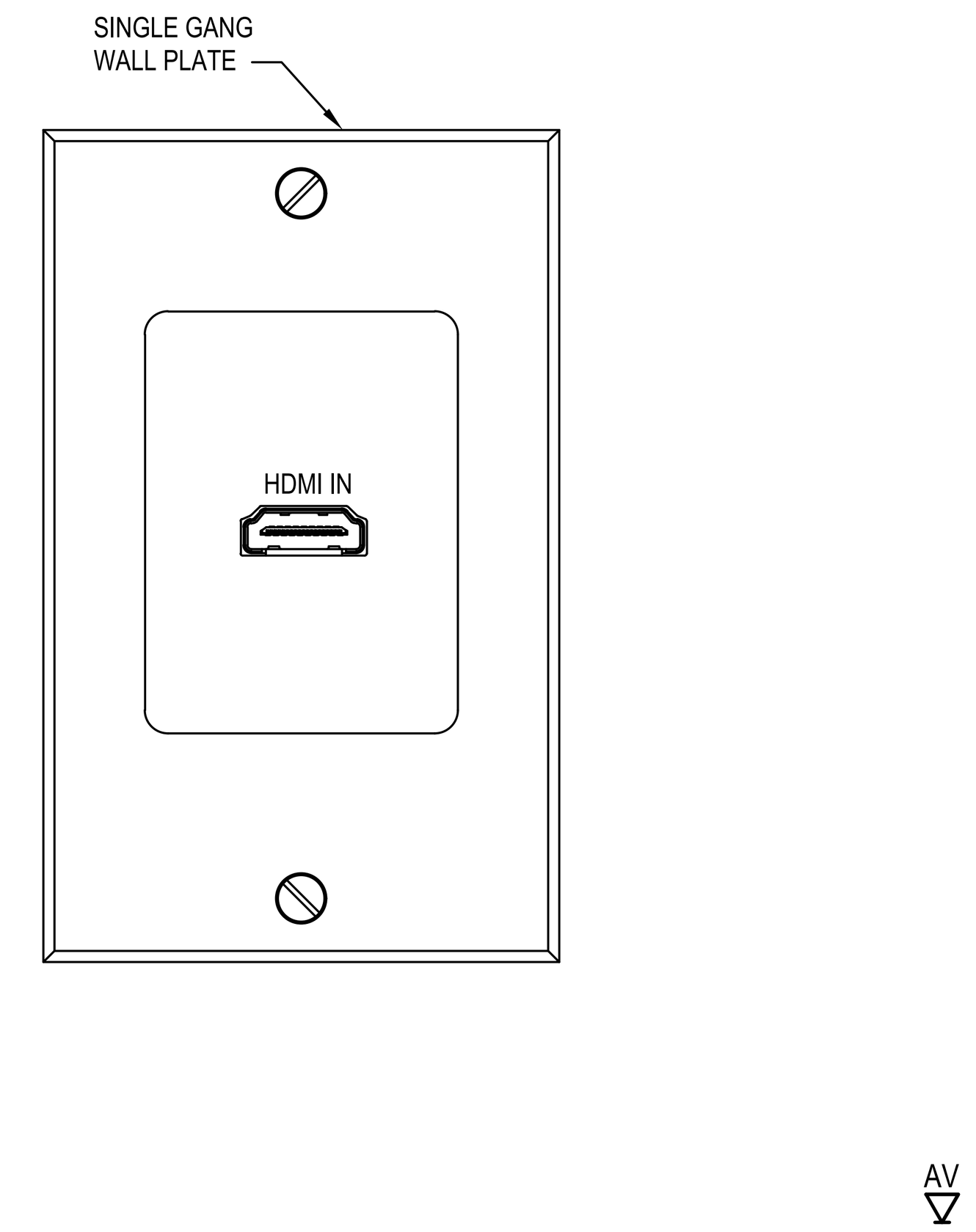
1 TELECOMMUNICATIONS 1-PORT OUTLET

NO SCALE



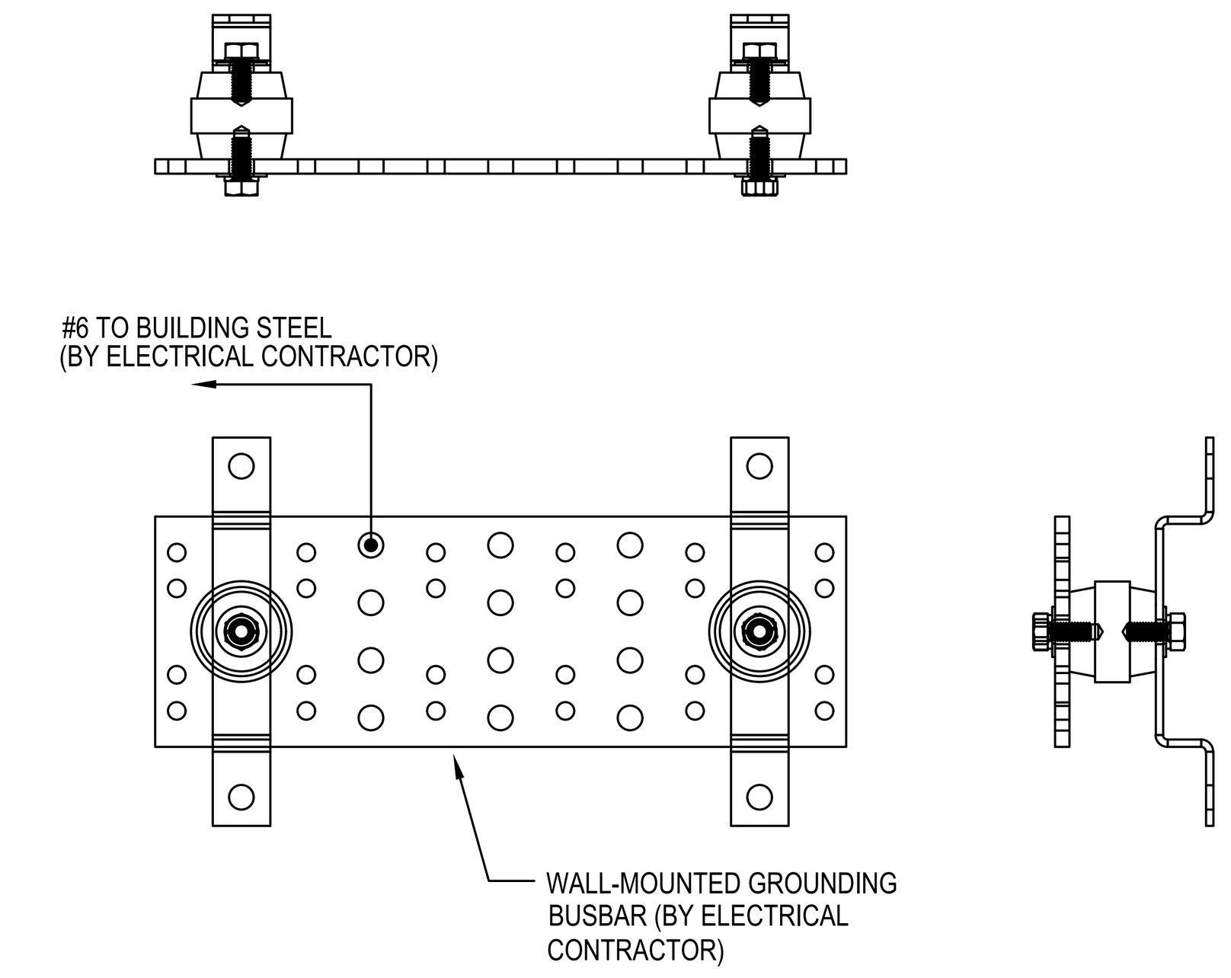
2 TELECOMMUNICATIONS 2-PORT OUTLET

NO SCALE



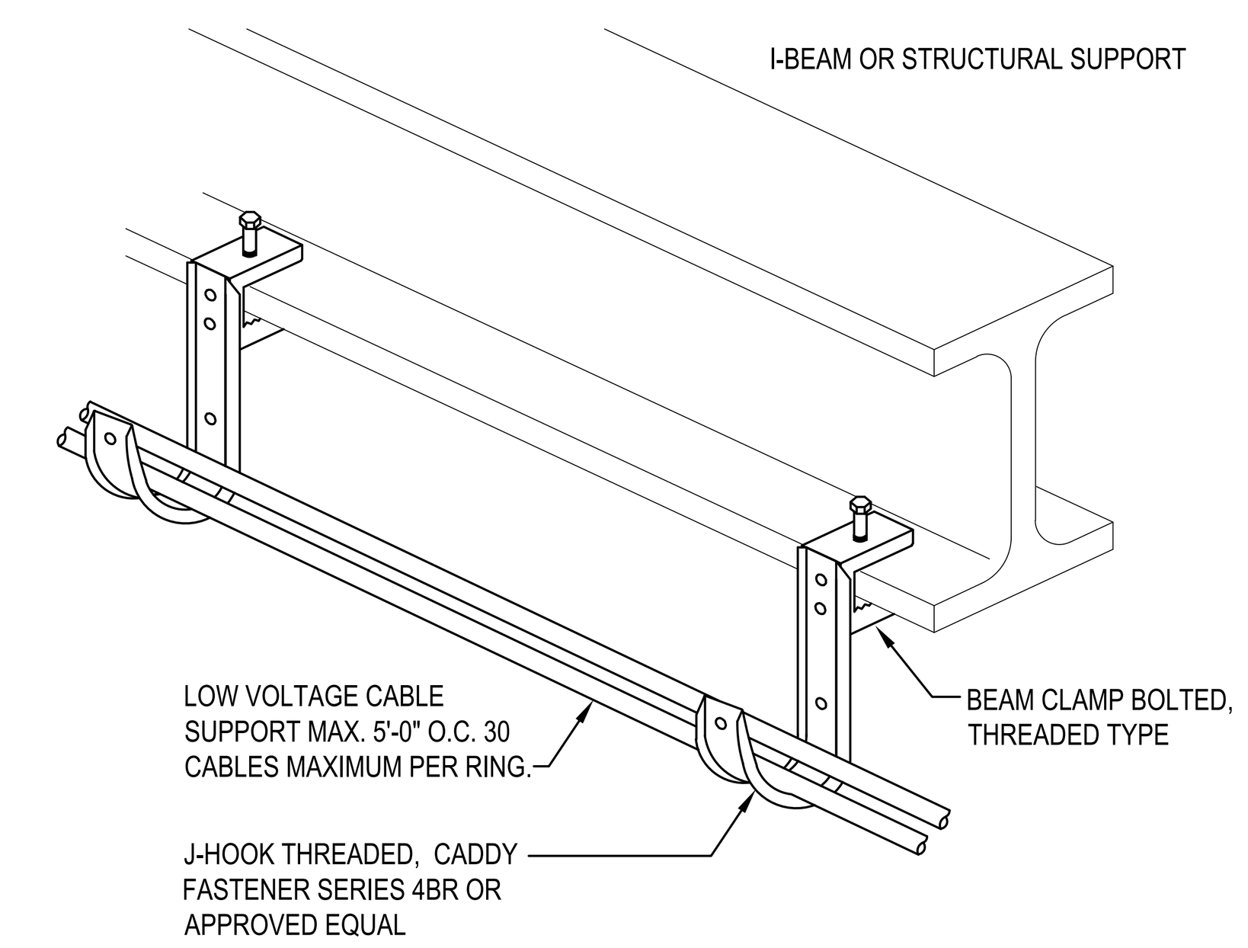
3 AUDIO-VISUAL WALL PLATE

NO SCALE



4 GROUNDING BAR DETAIL

NO SCALE

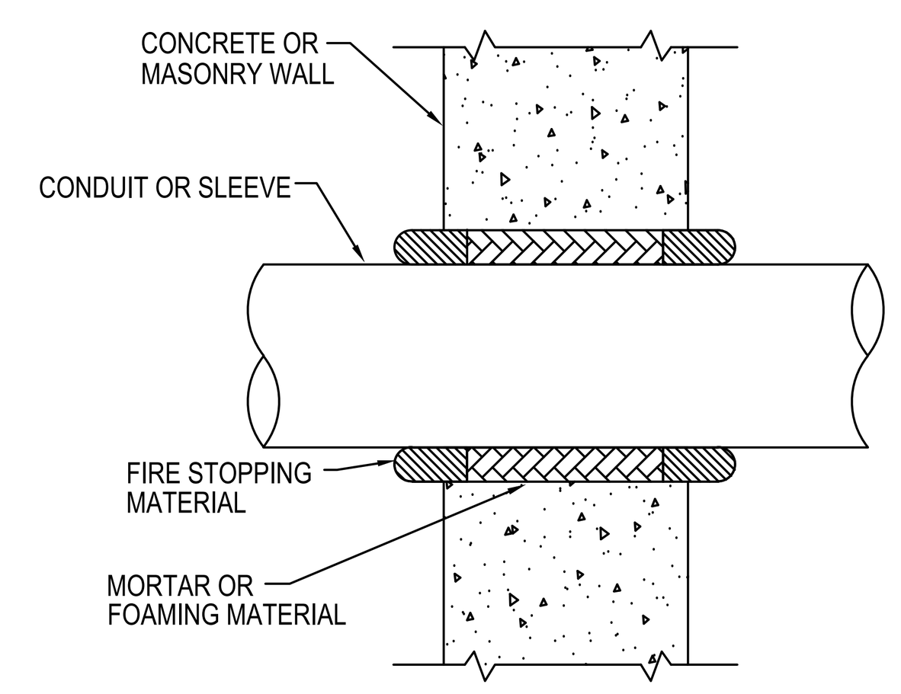


NOTES:

1. SUPPORTING CABLE IS ACCEPTABLE BELOW SUPPORT STEEL OR ABOVE STEEL. COORDINATE MOUNTING LOCATIONS WITH OTHER TRADES AND FIELD CONDITIONS. PROVIDE SUPPORT CLIPS AND THREADED RODS AS REQUIRED FOR A COMPLETE SUPPORT SYSTEM AS INDICATED.
2. SUPPORT CABLE EITHER PARALLEL OR PERPENDICULAR TO SUPPORT STEEL.

5 TYPICAL CABLE SUPPORT DETAIL

NO SCALE

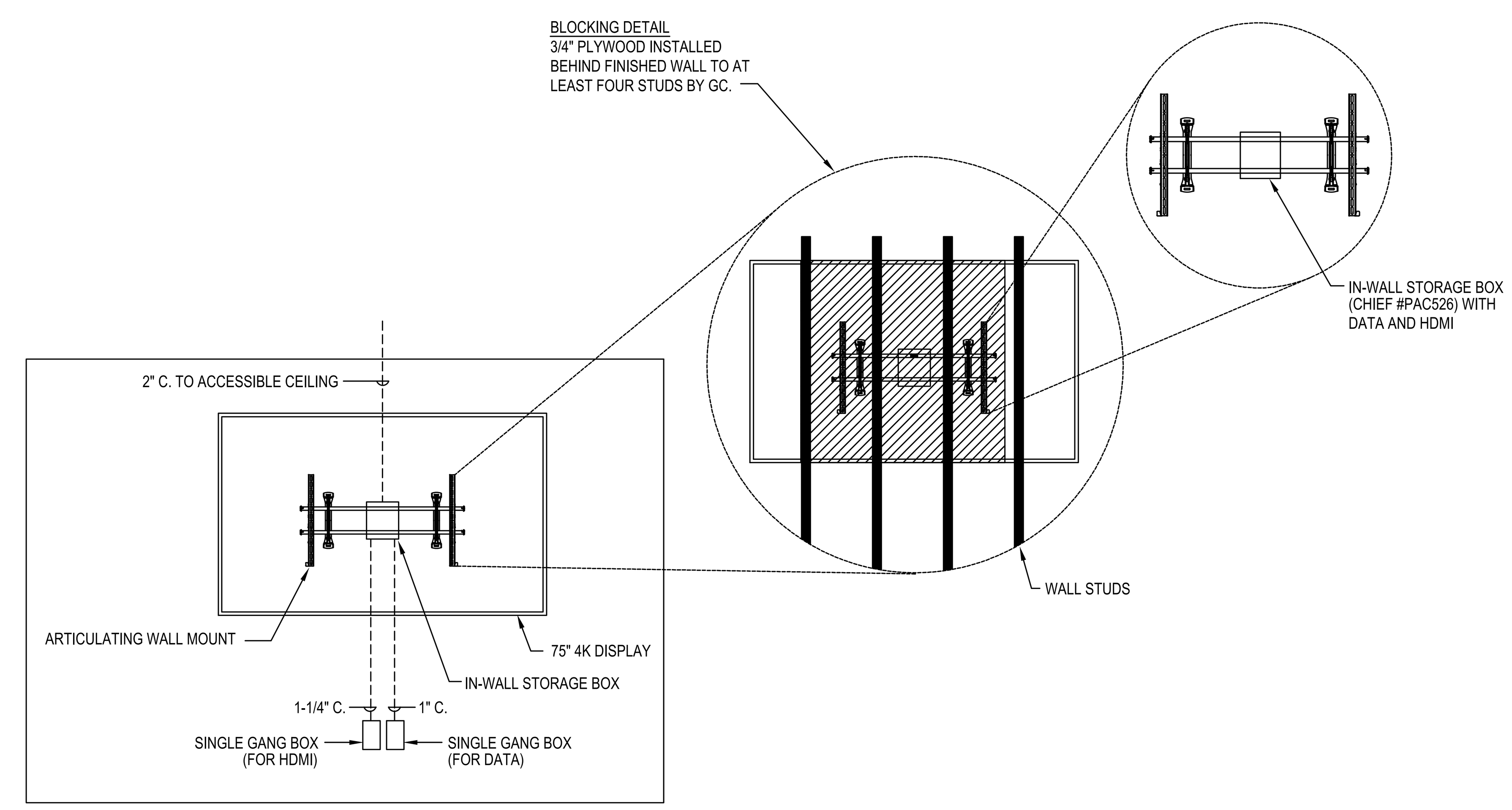


NOTES:

1. INSTALL FIRE STOPPING MATERIAL IN ACCORDANCE WITH MANUFACTURER TESTED METHODS.
2. INSTALL FIRE STOPPING MATERIAL INSIDE SLEEVES AFTER CABLE INSTALLATION IS COMPLETE.
3. ALWAYS RESTORE THE FIRE-RATING OF THE WALL TO IT'S INTENDED DESIGN.

6 FIRESTOPPING DETAIL

NO SCALE



7 DISPLAYMOUNTING DETAIL

NO SCALE

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TELECOM DETAILS

Project Number. 6846

Drawing No. TT301

Sheet of

SECURITY LEGEND AND ABBREVIATIONS

ABBREVIATIONS

℄	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
CT	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GFGI	GOVERNMENT FURNISHED - GOVERNMENT INSTALLED
GC	GENERAL CONTRACTOR
GND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT - SEE NEC ARTICLE 342
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE - NFPA 70
NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OSP	OUTSIDE PANT
PNL	PANEL
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMC	RIGID METAL CONDUIT - SEE NEC ARTICLE 344
RU	RACK UNIT; UNIT OF PATCH PANEL HEIGHT EQUAL TO 1.75 INCH
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SM	SINGLE-MODE (OPTICAL FIBER)
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF

MISCELLANEOUS SYMBOL LEGEND

#	SHEET KEYNOTE
#	REVISION NUMBER
1 / T2.1	CALLOUT — CALLOUT NUMBER / SHEET NUMBER

SECURITY NOTES

1. LOCATION OF ALL SECURITY DEVICES AND OTHER SECURITY COMPONENTS ARE APPROXIMATE AND SUBJECT TO CHANGE. SEE ARCHITECTURAL DRAWINGS FOR EXACT DETAILS.
2. PROVIDE FIRE STOPPING FOR ALL SLEEVE, CONDUIT AND CABLE TRAY PENETRATIONS THROUGH RATED PARTITIONS OR FLOORS IN ACCORDANCE WITH THE CODE AND SPECIFICATIONS.
3. ALL WALL MOUNTED DEVICES TO BE WIRED VIA 1" CONDUIT (PROVIDED UNDER ELECTRICAL CONTRACT) WITHIN WALL TO THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE SPECIFIED.
4. ANY ELECTRICAL AND MECHANICAL DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE PURPOSES ONLY UNLESS OTHERWISE SPECIFIED. SEE MEP DRAWINGS FOR DETAILS AND LOCATION OF ALL SUCH EQUIPMENT.
5. GROUND ALL EQUIPMENT RACKS, FRAMES, CABLE TRAYS, CABLE LADDERS AND OTHER PERMANENT SUPPORTS WITH #6 AWG (MIN), STRANDED, GREEN, INSULATED, COPPER WIRE AND SCREW COMPRESSION LUGS.
6. LABEL ALL CLOSETS, RACKS, CABINETS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH ANSI/TIA/EIA-606-A.
7. ALL SECURITY DEVICES ARE TO BE U.L. LISTED. CABLES FOR DEVICES ARE TO BE WIRED TO THE SAME CLOSET THAT SERVES THE REST OF THE FLOOR.

DOOR WIRING NOTES

1. NO CABLES ARE TO BE INSTALLED EXPOSED. ALL CABLES ARE TO BE CONCEALED IN CONDUIT. ALL CONDUIT ARE TO BE FINISHED AND TERMINATED IN JUNCTION BOXES AND/OR DEVICE BOXES, UON.
2. ALL JUNCTION BOXES ARE TO BE PLACED ON SECURE SIDE OF DOORS.
3. SECURITY CONTRACTOR TO PROVIDE ALL CABLING AND COORDINATION WITH ELECTRICAL CONTRACTOR FOR PROPER CONDUIT INSTALLATION.
4. DOOR WIRING DETAILS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF SECURITY DEVICES MAY DIFFER.
5. COORDINATE ALL CONNECTIONS AT ENTRY AND EGRESS SIDE OF DOORS WITH EC, GC AND HARDWARE CONTRACTOR.

DEMOLITION NOTES

1. GENERAL DEMOLITION WORK SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS OTHERWISE INDICATED. COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES REMAINING IN THE BUILDING.
2. WHERE EXISTING DEVICES ARE NOT TO BE REUSED, THEY SHALL BE REMOVED AND THE CABLING PULLED BACK TO ITS SOURCE AS REQUIRED BY JOB CONDITIONS.
3. REMOVE EXPOSED OR ACCESSIBLE CABLING TO EQUIPMENT OR DEVICES TO BE REMOVED OR RELOCATED, UNLESS OTHERWISE INDICATED.
4. CABLING INDICATED TO BE REMOVED SHALL BE REMOVED BACK TO ITS SOURCE. CONDUIT OVER UNDISTURBED CEILINGS SHALL REMAIN AND BE LABELED ABANDONED ON EACH END.
5. BE RESPONSIBLE FOR VERIFYING THE INTEGRITY AND CONDITION OF THE EXISTING CABLING WHICH IS TO BE REUSED. CABLING FOUND TO BE NON-FUNCTIONAL SHALL BE REPLACED.
6. COORDINATE WORK CONCERNING EXISTING EQUIPMENT AND SERVICES IN THE BUILDING. COORDINATE REQUIRED INTERRUPTIONS AND PERFORM AT TIME CONVENIENT TO OWNER. INCLUDE COSTS FOR REQUIRED PREMIUM TIME.
7. WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.
8. CONTRACTOR SHALL VISIT THE SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT WORK OF THIS SECTION. RENOVATION WORK REQUIRES CAREFUL SITE EXAMINATION BEFORE BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS.
9. PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE THE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING ITEMS. REPORT TO ENGINEER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK WILL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
10. TONE, TAG AND IDENTIFY ALL CAQBLING BEFORE DEMOLITION.

SECURITY LEGEND

	FIXED SECURITY CAMERA (1) CATEGORY 6 4-PAIR UTP CABLE
ELEV	ELEVATOR FIXED SECURITY CAMERA (1) CATEGORY 6 4-PAIR UTP CABLE
EXT	EXTERIOR FIXED SECURITY CAMERA (1) CATEGORY 6 4-PAIR UTP CABLE
EXT 360	EXTERIOR 360° SECURITY CAMERA (1) CATEGORY 6 4-PAIR UTP CABLE
DC	MAGNETIC DOOR CONTACT (1) 18/4 SHIELDED
RE	REQUEST-TO-EXIT DEVICE (1) 18/4 SHIELDED
PS	POWER SUPPLY
DR	DOOR RELEASE BUTTON (1) 18/4 SHIELDED
PB	PANIC BUTTON (1) 18/4 SHIELDED
CR	PROXIMITY CARD READER (1) 22/6 SHIELDED
CR LC	SCHLAGE ENCODE LEVER SMART LOCK CONNECT LOCK TO LIBCAL SCHEDULING SYSTEM VIA THE LIBRARY WIFI SYSTEM. COORDINATE WITH THE LIBRARY MANAGER.
EL	ELECTRIC LOCK (1) 16/2 SHIELDED
MS	MOTION SENSOR (1) 18/4 SHIELDED
GB	GLASS BREAK SENSOR (1) 18/4 SHIELDED
IC	VIDEO INTERCOM SUBSTATION (1) CATEGORY 6 4-PAIR UTP CABLE
IC M	VIDEO INTERCOM MASTER STATION (1) CATEGORY 6 4-PAIR UTP CABLE
KP	KEYPAD (1) 18/4 SHIELDED
WS	WORKSTATION FOR ACCESS CONTROL AND VIDEO SURVEILLANCE (1) CATEGORY 6 4-PAIR UTP CABLE
CAM - XXX	SECURITY CAMERA CIRCUITING; XXX=CAMERA NUMBER

DEVICE DESIGNATIONS

(E)	EXISTING DEVICE TO REMAIN
(X)	EXISTING DEVICE TO BE REMOVED
(XR)	EXISTING DEVICE TO BE REMOVED AND RELOCATED
(XL)	NEW LOCATION OF EXISTING RELOCATED DEVICE
(N)	NEW DEVICE

LEGEND NOTES

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SECURITY LEGEND AND ABBREVIATIONS

Project Number. 6846

Drawing No: TY001

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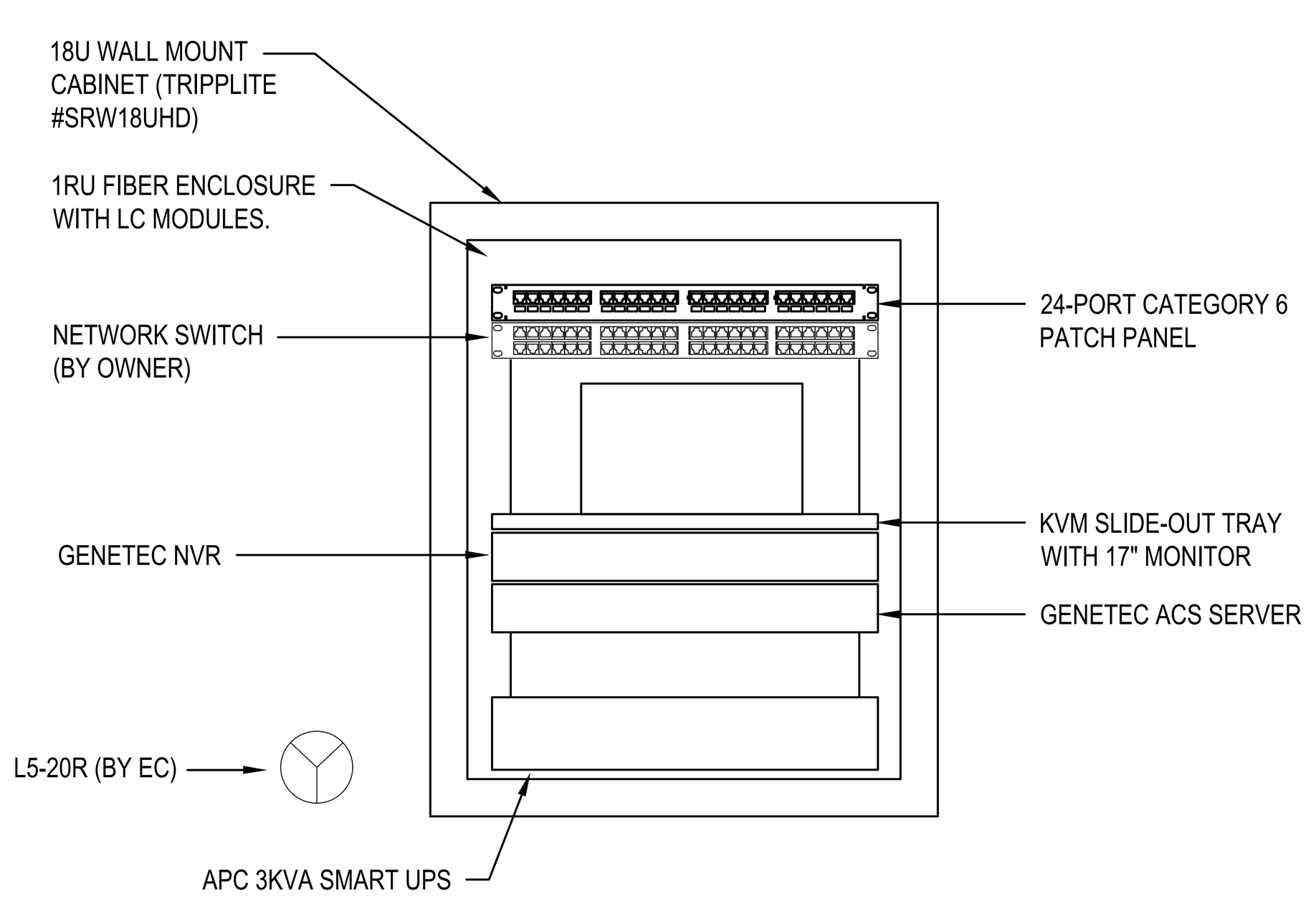
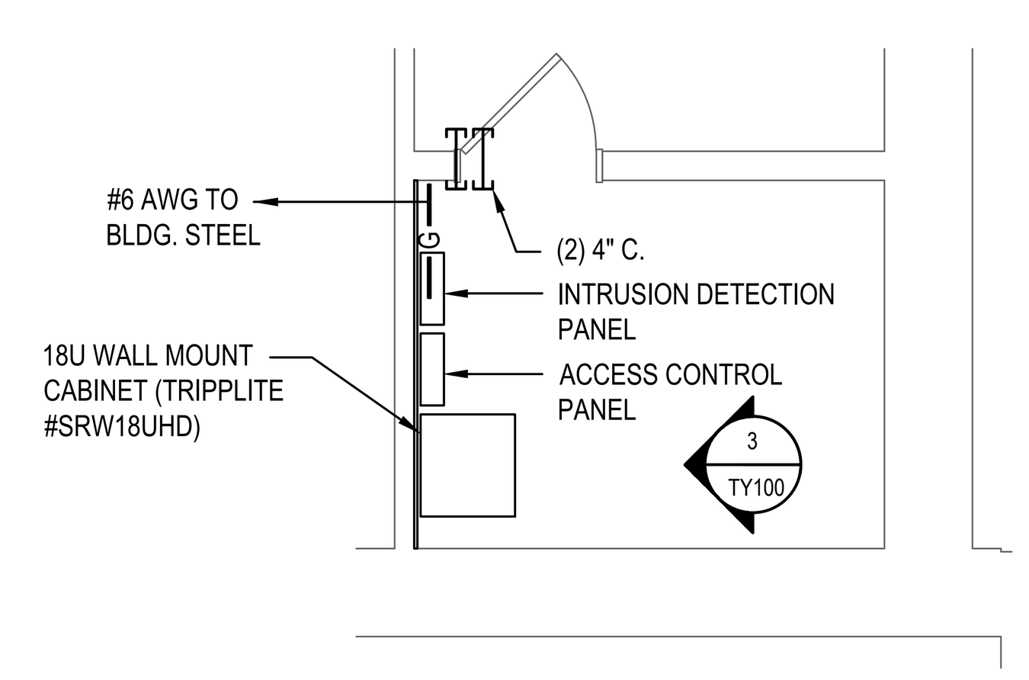


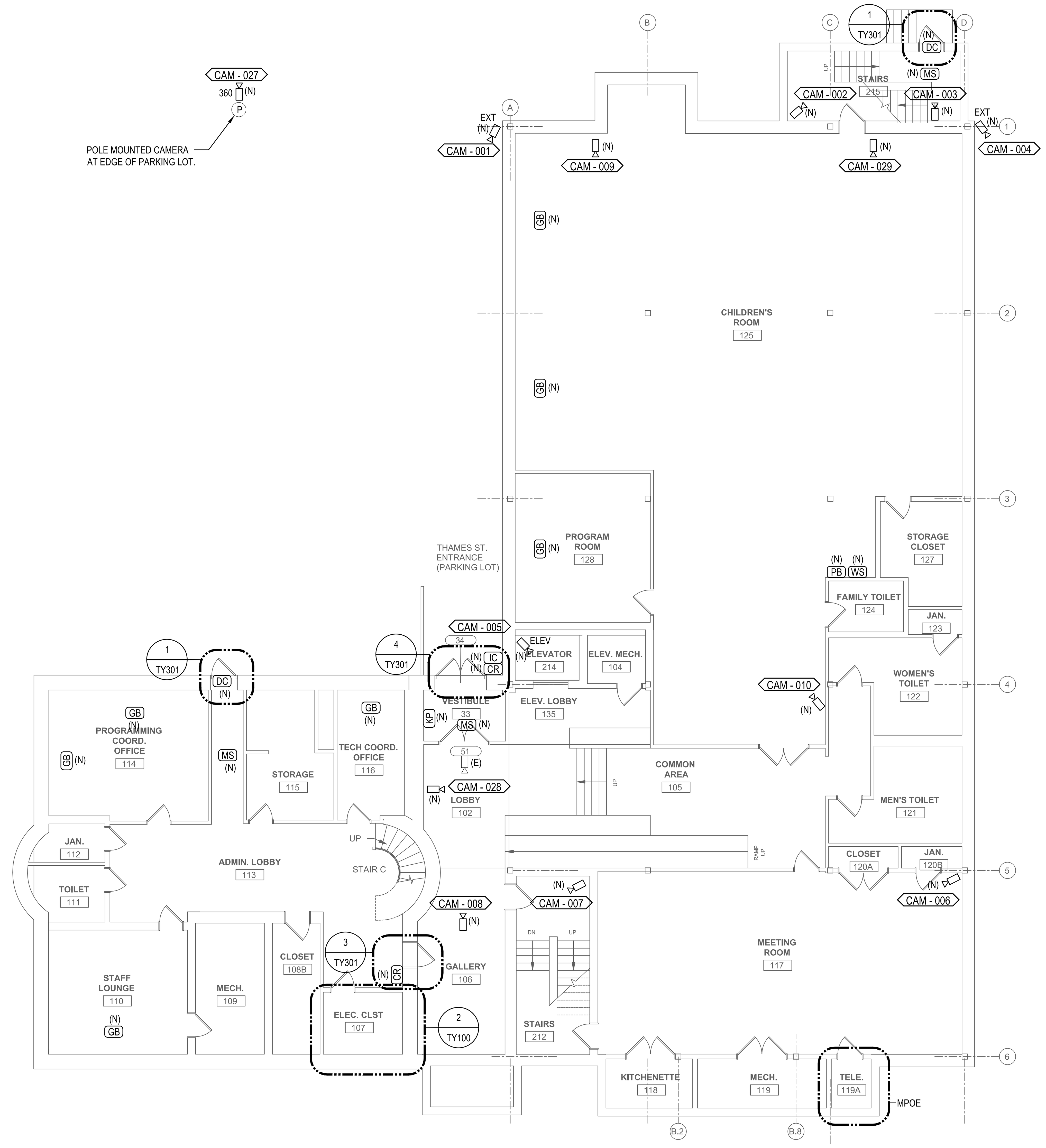
3 TY100 EQUIPMENT CABINET ELEVATION

Scale: NOT TO SCALE



2 TY100 ENLARGED STORAGE 107 PLAN

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



1 TY100 FIRST FLOOR PLAN

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

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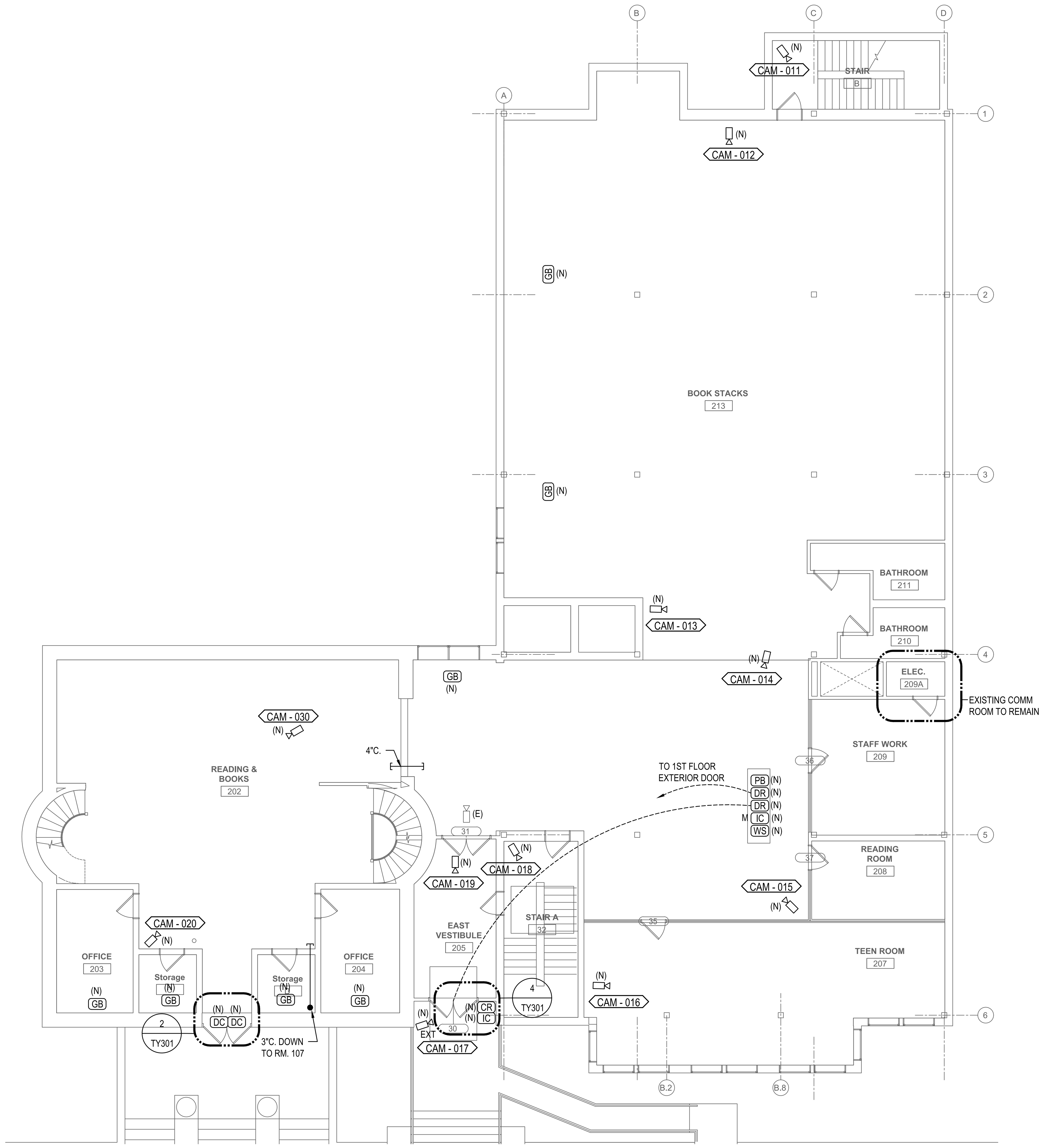
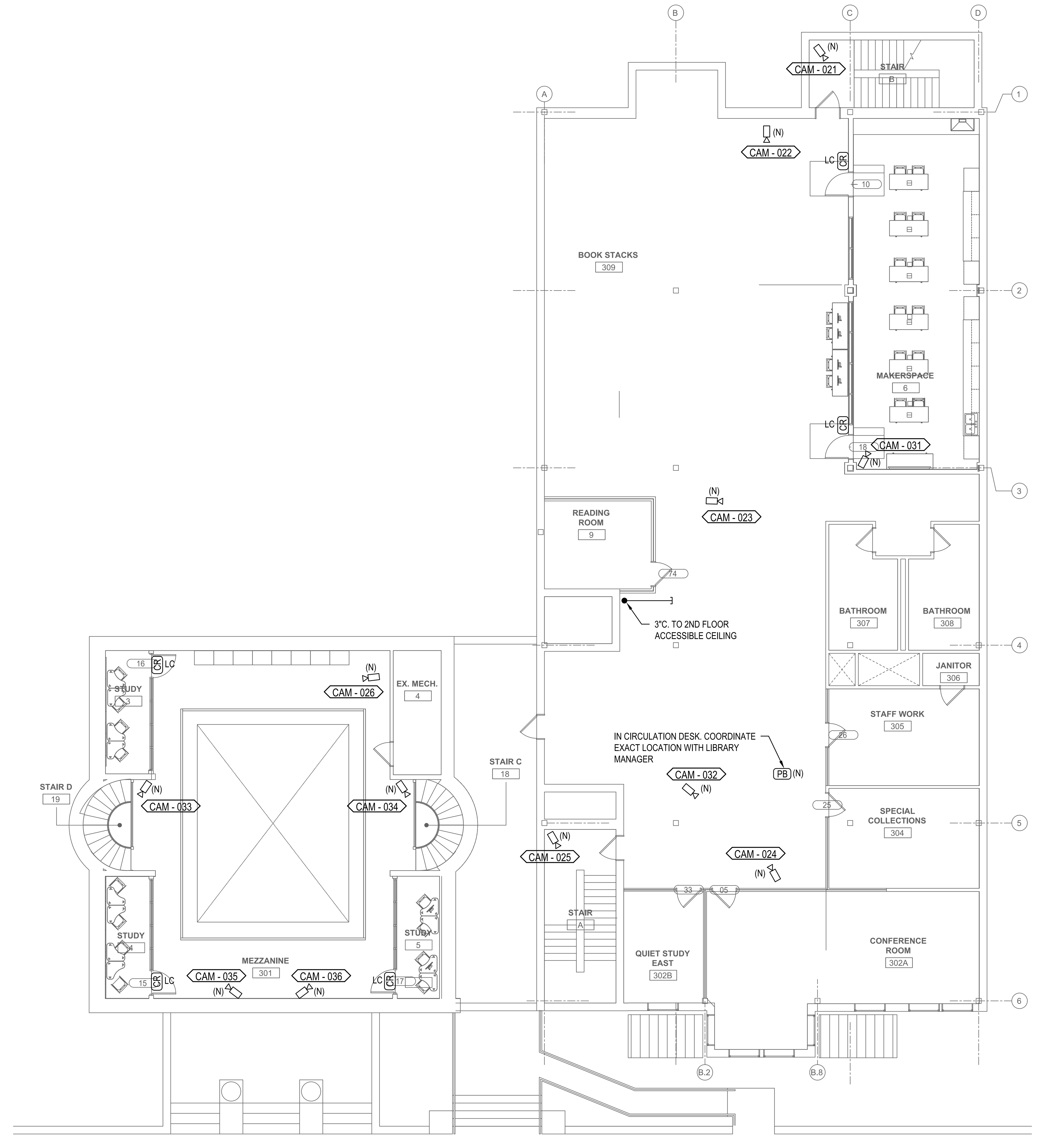


PLAN NORTH

2 SECOND FLOOR PLAN

TY101 Scale: 1/8" = 1'-0"



PLAN NORTH

1 THIRD FLOOR PLAN

TY101 Scale: 1/8" = 1'-0"

Certification

MELISSA ANNE SIERRA
No. 11812
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

Drawn by RF

Checked by WH

Revised on

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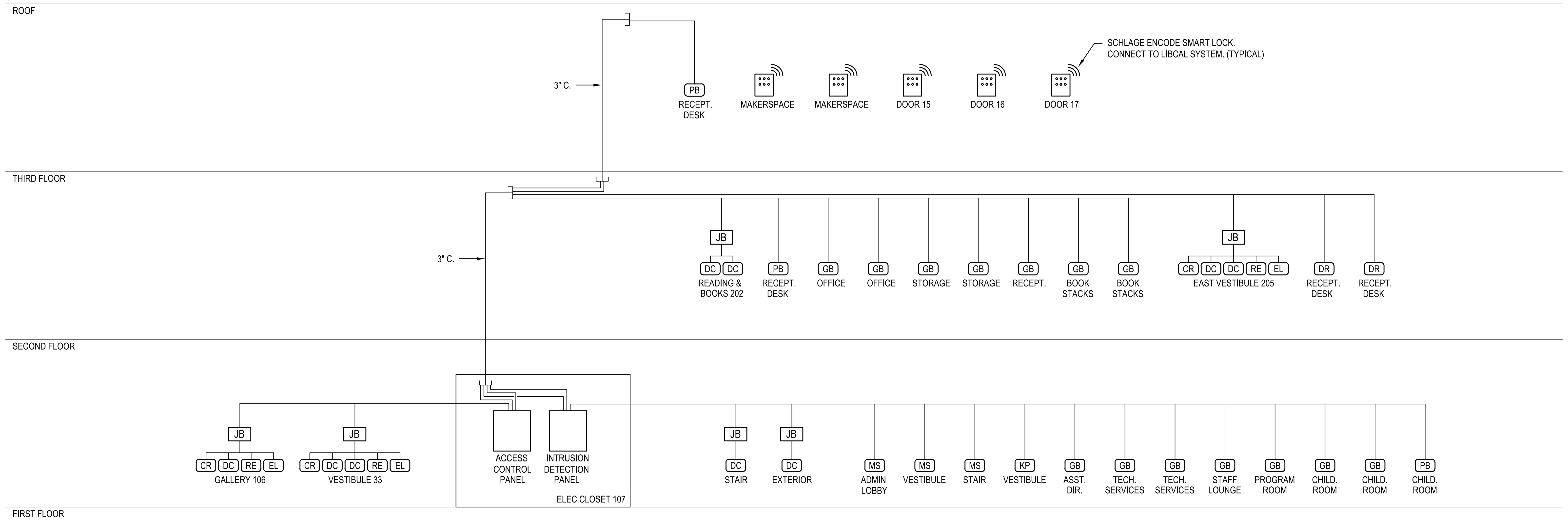
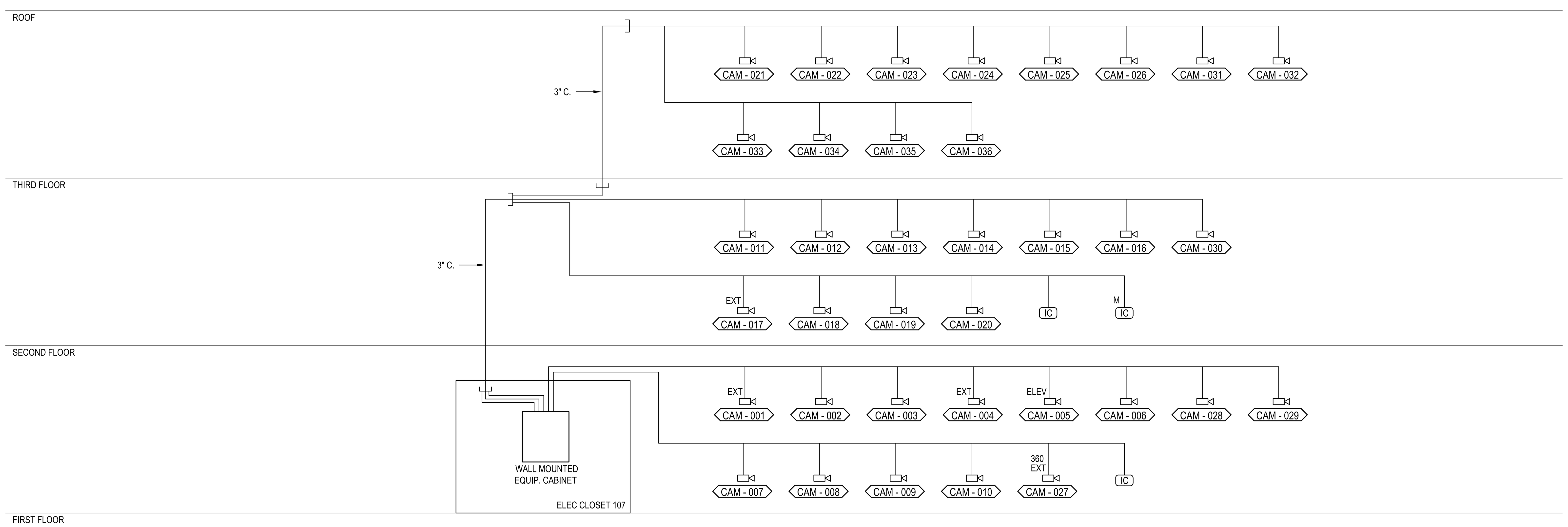


2 / TY201 **ACCES CONTROL & INTRUSION RISER DIAGRAM**

SCALE: NTS



1 / TY201 **VIDEO SURVEILLANCE RISER DIAGRAM**

SCALE: NTS

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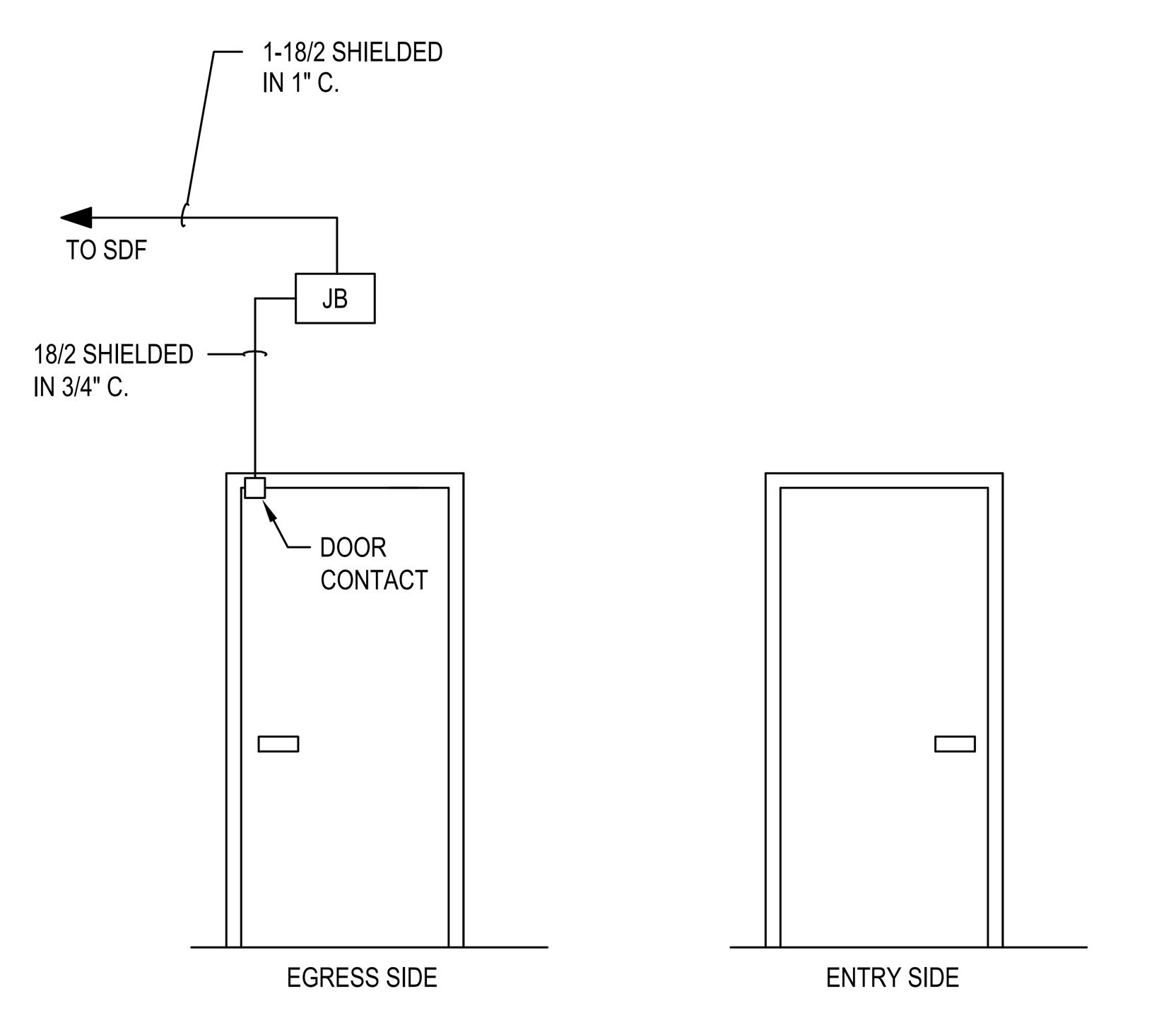
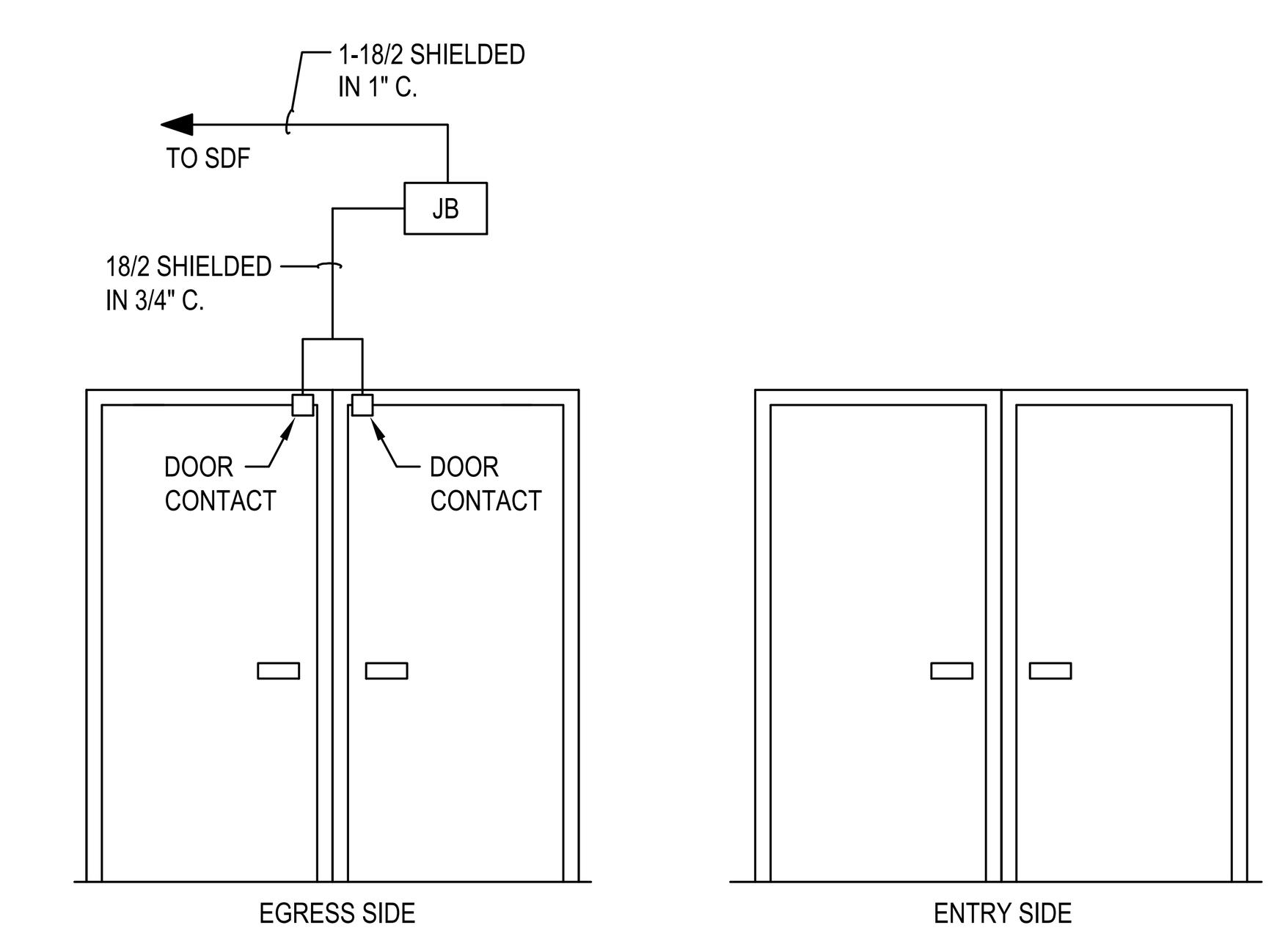


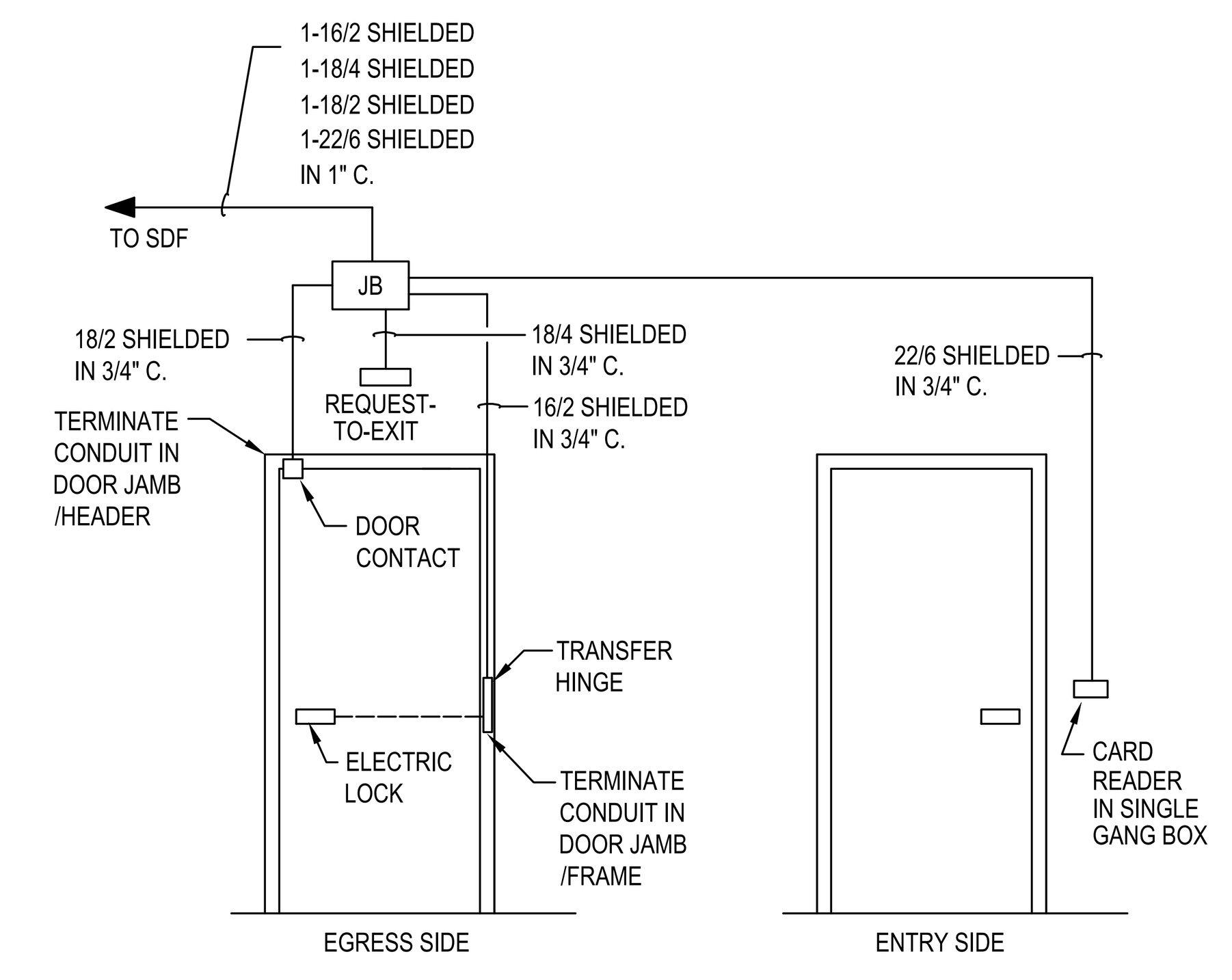
1 MONITORED SINGLE DOOR WIRING DIAGRAM

NO SCALE



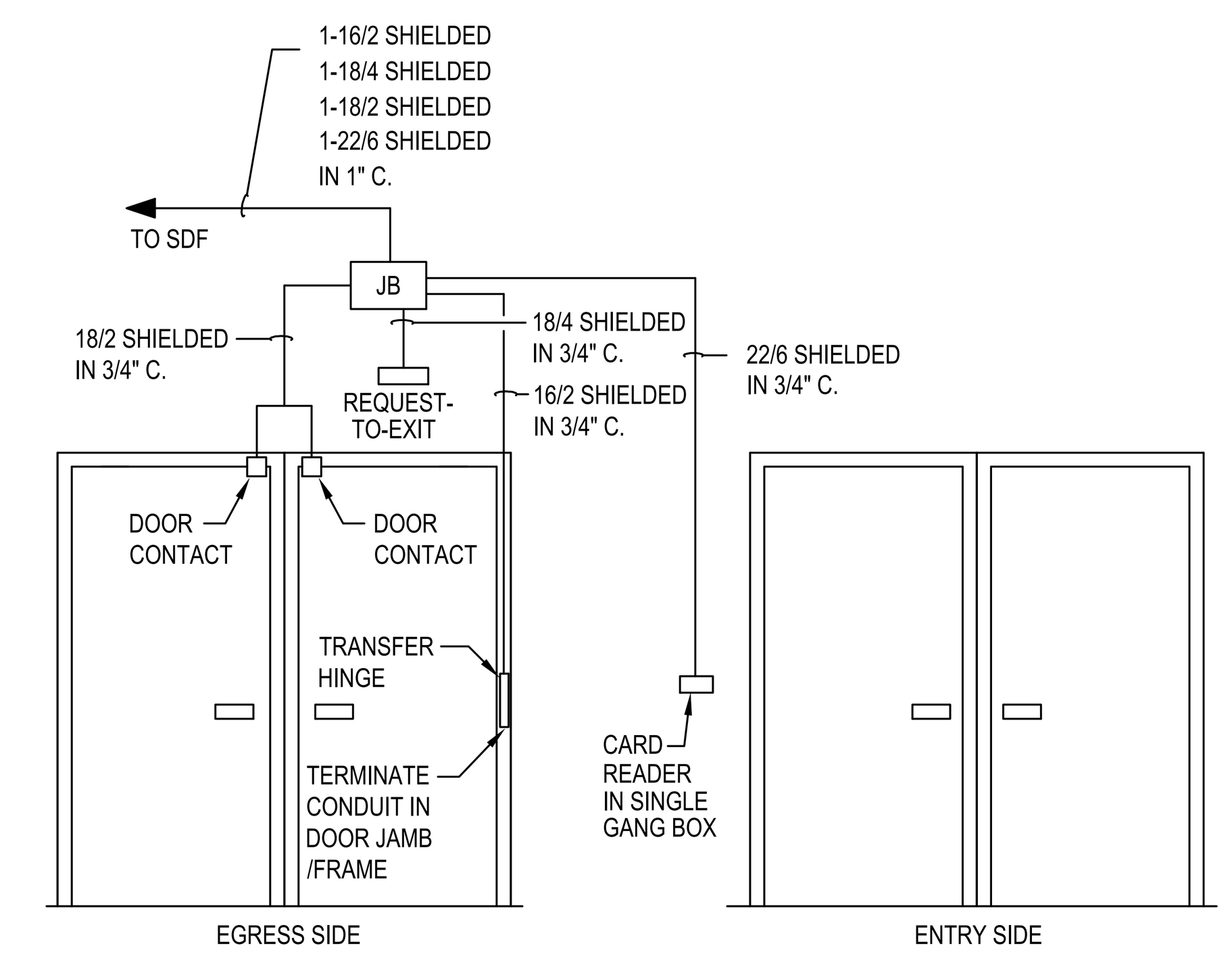
2 MONITORED DOUBLE DOOR WIRING DIAGRAM

NO SCALE



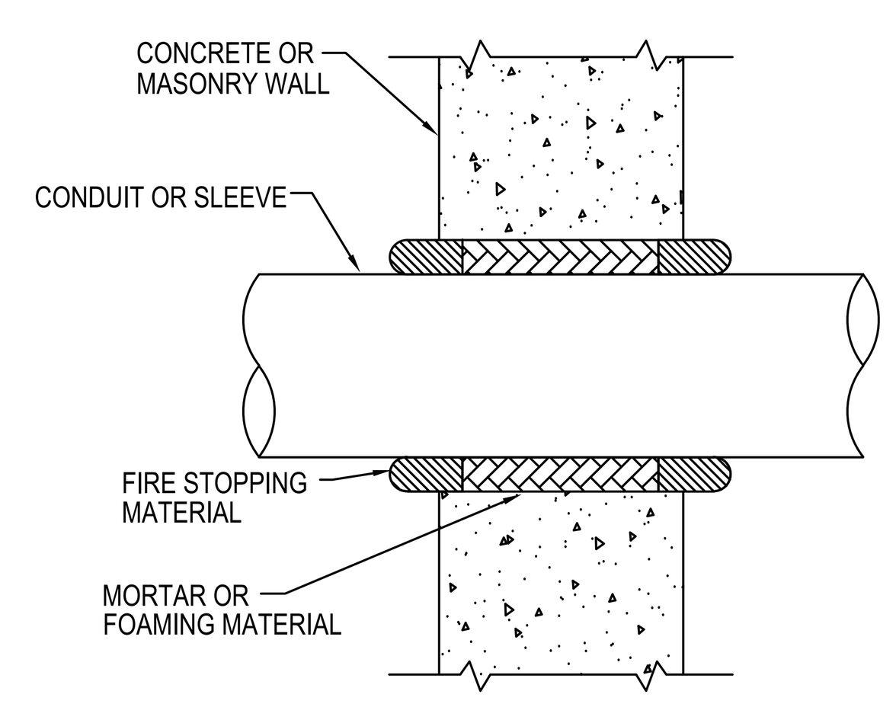
3 SINGLE DOOR WIRING DIAGRAM
WITH CARD READER

NO SCALE



4 DOUBLE DOOR WIRING DIAGRAM
WITH CARD READER

NO SCALE

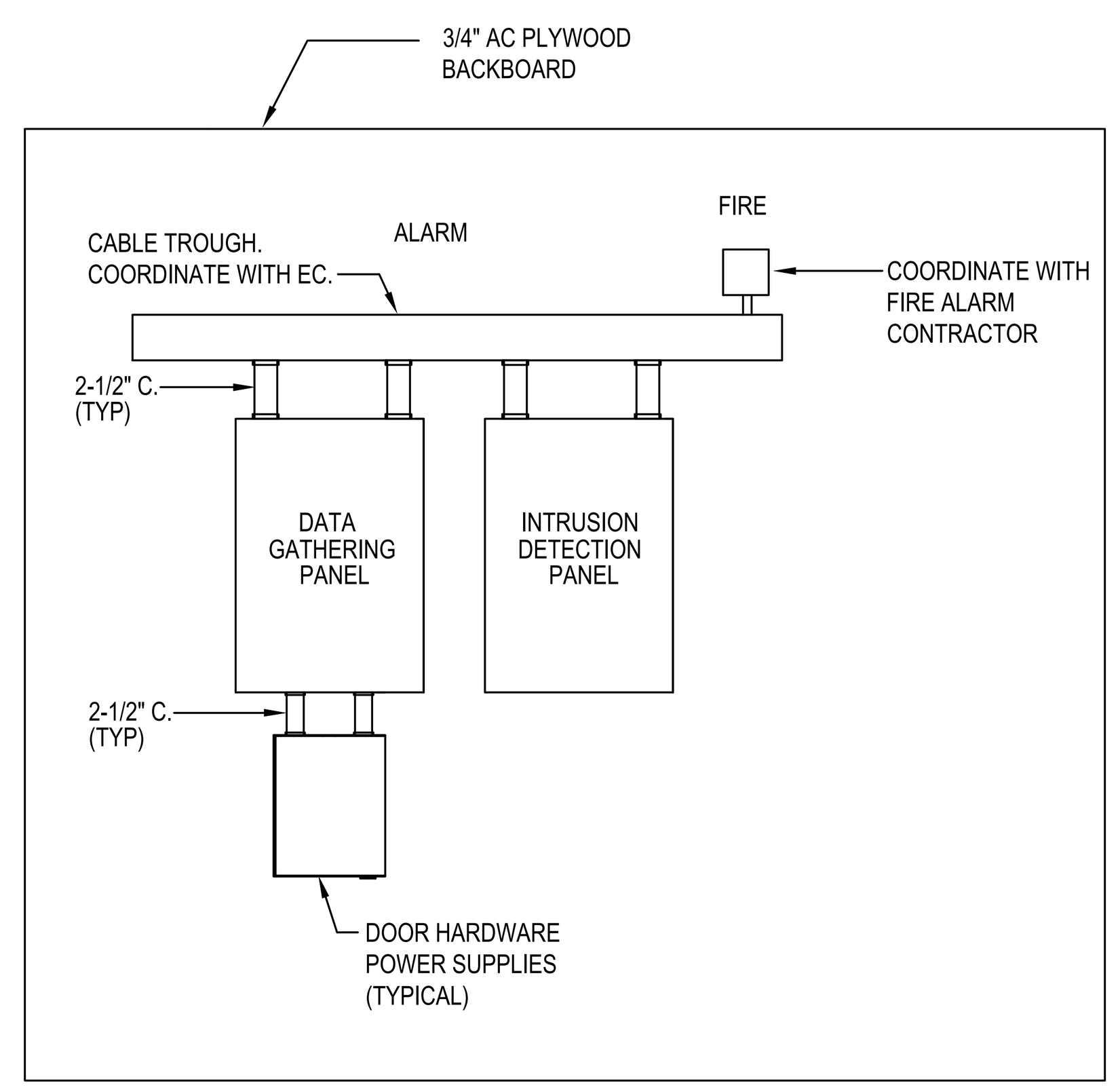


NOTES:

1. INSTALL FIRE STOPPING MATERIAL IN ACCORDANCE WITH MANUFACTURER TESTED METHODS.
2. INSTALL FIRE STOPPING MATERIAL INSIDE SLEEVES AFTER CABLE INSTALLATION IS COMPLETE.
3. ALWAYS RESTORE THE FIRE-RATING OF THE WALL TO IT'S INTENDED DESIGN.

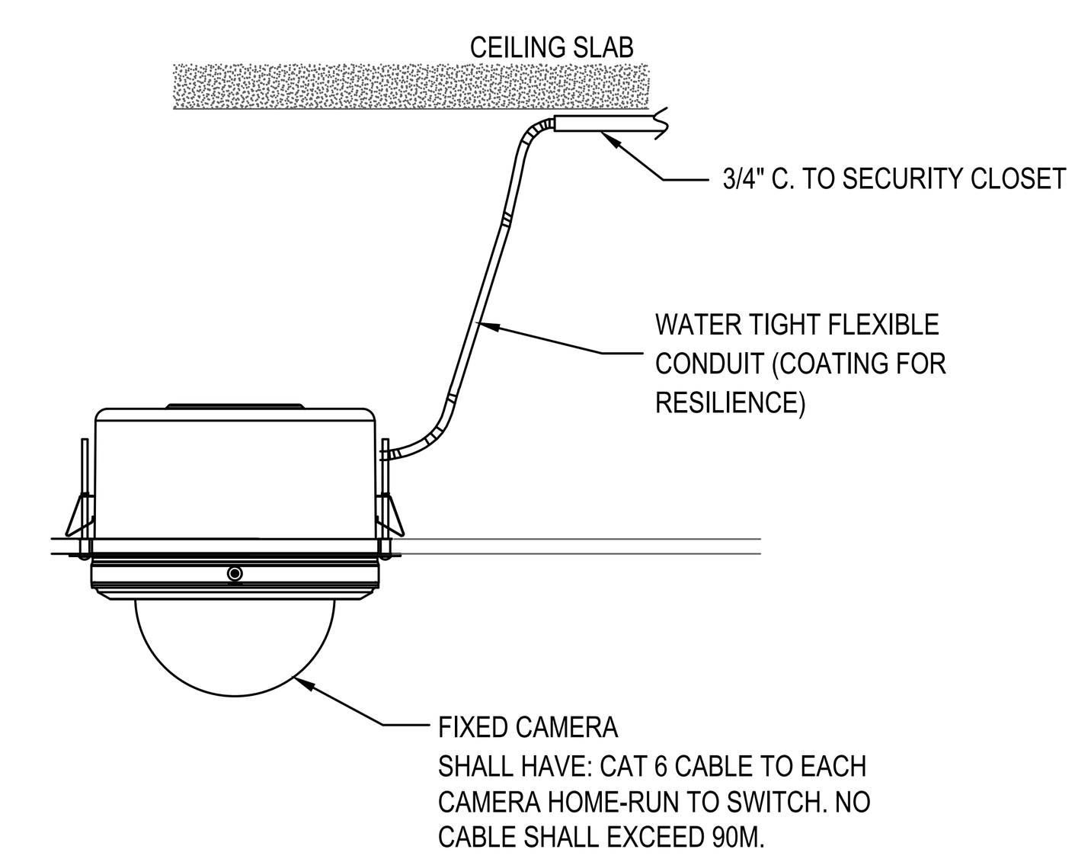
5 FIRESTOPPING DETAIL

NO SCALE



6 SECURITY WALL FIELD

NO SCALE

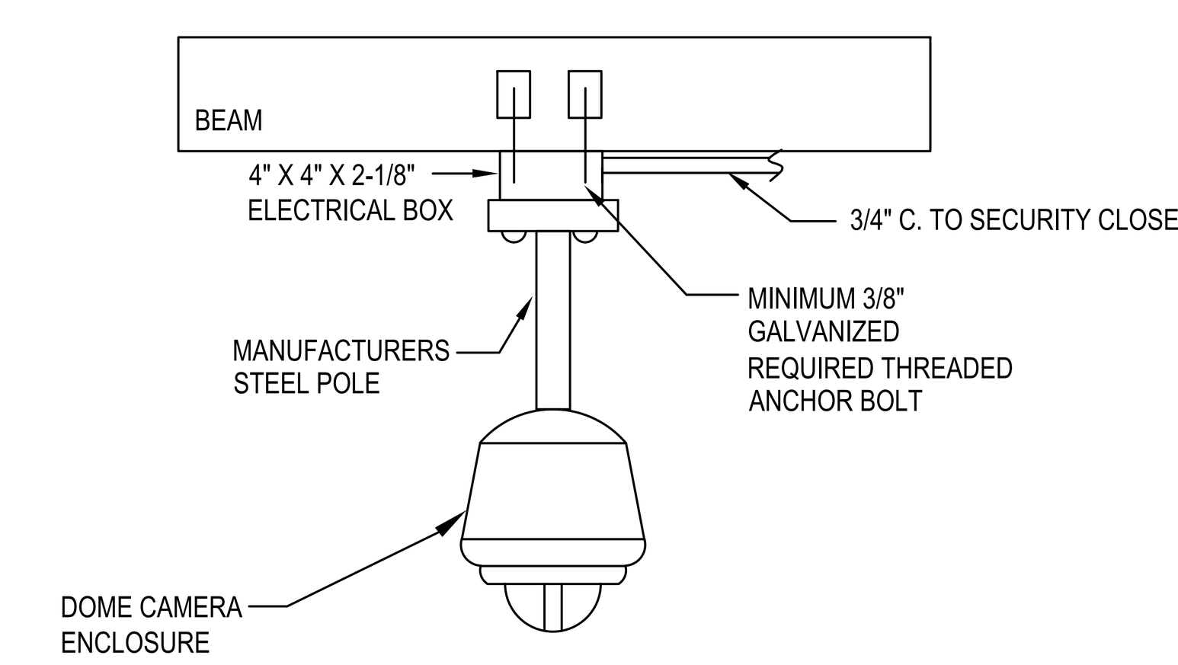


NOTE:

1. THIS DETAIL REPRESENTS THE INSTALLATION REQUIREMENTS OF CONDUIT AND BOX SIZING AND LOCATIONS.
2. REFER TO ARCHITECTURAL PLANS FOR ALL DEVICE MOUNTING REQUIREMENT PRIOR TO INSTALLATION.
3. CONDUIT SHALL BE REQUIRED IN ALL EXPOSED AREAS, AND IN AREAS OF INACCESSIBILITY, J-HOOKS AND OTHER CABLE SUPPORT MECHANISMS THAT ARE ACCESSIBLE ABOVE CONCEALED AND ACCESSIBLE CEILINGS IS ACCEPTABLE.

7 CEILING MOUNTED CAMERA DETAIL

NO SCALE



NOTE:

1. THIS DETAIL REPRESENTS THE INSTALLATION REQUIREMENTS OF CONDUIT AND BOX SIZING AND LOCATIONS.
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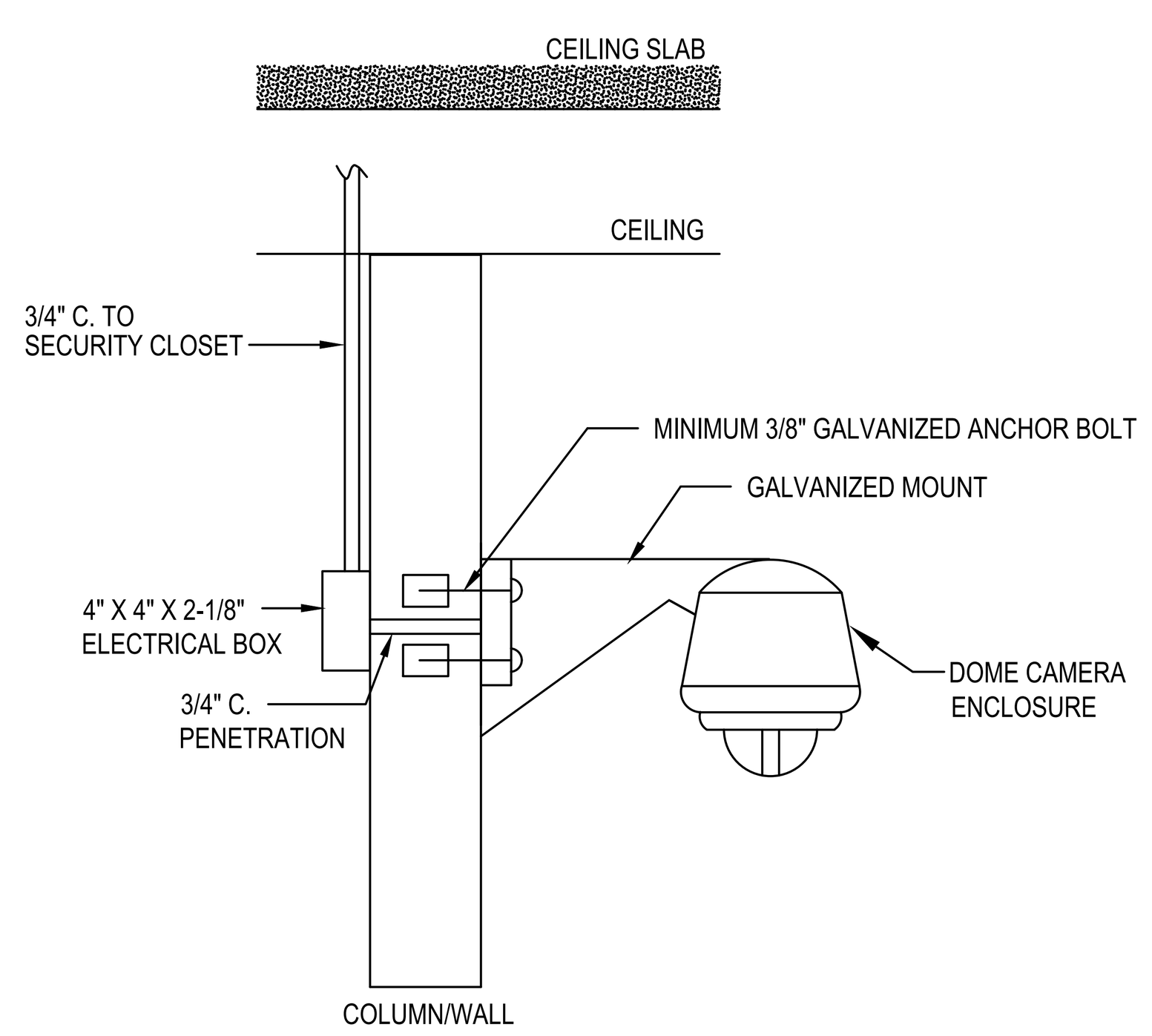
8 EXTERIOR MOUNTED CAMERA DETAIL

NO SCALE



NOTE:

1. THIS DETAIL REPRESENTS THE INSTALLATION REQUIREMENTS OF CONDUIT AND BOX SIZING AND LOCATIONS.
2. REFER TO ARCHITECTURAL PLANS FOR ALL DEVICE MOUNTING REQUIREMENT PRIOR TO INSTALLATION.
3. CONDUIT SHALL BE REQUIRED IN ALL EXPOSED AREAS, AND IN AREAS OF INACCESSIBILITY, J-HOOKS AND OTHER CABLE SUPPORT MECHANISMS THAT ARE ACCESSIBLE ABOVE CONCEALED AND ACCESSIBLE CEILINGS IS ACCEPTABLE.

9 COLUMN/WALL MOUNTED CAMERA DETAIL

NO SCALE

Certification

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