HARBOR LEARNING CENTER

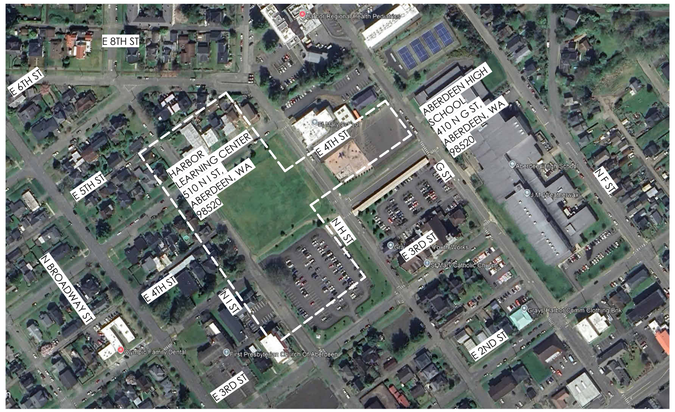
ABERDEEN SCHOOL DISTRICT #5

ABERDEEN, WASHINGTON

SCHEMATIC DESIGN SET



This image is provided for REFERENCE ONLY and is not a part of contract documents.



SITE VICINITY MAP

NTS

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Client
ABERDEEN SD #5

Project
HARBOR LEARNING CENTER
2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates
12 AUGUST 2025 95% SD

100% Schematic Design
Not for Construction

Drawn By DV
Checked By JRM

Sheet Title
COVER SHEET

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GENERAL ABBREVIATIONS

NOTE: ALSO SEE GENERAL NOTES AND SCHEDULES FOR ADDITIONAL SPECIFIC ABBREVIATIONS NOT LISTED HERE. SPECIFIC ABBREVIATIONS IN THE SCHEDULES AND GENERAL NOTES SHALL SUPERCEDE THE DEFINITION OF ABBREVIATIONS GIVEN IN THE GENERAL ABBREVIATIONS

@	At
&	And
A/C	Air Conditioning
A/V	Audio/Video
AB	Anchor Bolt
ACP	Acoustical Ceiling Panels
ACT	Acoustical Ceiling Tile
ADA	Americans with Disabilities Act
ADD	Additive
ADD'L	Additional
ADJ	Adjustable
ADM	Addendum
ADMIN	Administration or Administrative
AFF	Above Finish Floor
AL	Aluminum
ALT	Alternate
ALUM	Aluminum
ANOD	Anodized
AP	Access Panel
APRX	Approximate
ARCH	Architect (ural)
ASPH	Asphalt
ASST	Assistant
ASSY	Assembly
AUTO	Automatic
AWP	Acoustical Wall Panel
B	Bottom
BD	Board
BEL	Below
BLDG	Building
BLK	Block
BLKG	Blocking
BM	Beam
B.O.	Bottom Of
STRUCT	Bottom Of Structure
BOT	Bottom
BPL	Base Plate
BRG	Bearing
BRK	Brick
BS	Back Splash
BTWN	Between
BV	Brick Veneer
CABT	Cabinet
CB	Coved Base
CC	Clear Coating
CFMF	Cold-Formed Metal Framing
CH	Coat Hook
CIP	Cast-In-Place
CIPC	Cast-in-Place Concrete
CJ	Control Joint
C/L	Centerline
CLG	Ceiling
CLR	Clear
CLT	Cross-Laminated Timber
CMU	Concrete Masonry Unit
CO	Cleanout
COJ	Construction Joint
COL	Column
COMP	Composition or Composite
CONC	Concrete
CONC-S	Concrete Sealed
COND	Condition
CONF	Conference
CONST	Construction
CONT	Continuous
CONTR	Contract(or)
COORD	Coordinate
CORR	Corridor
CPT	Carpet
CT	Ceramic Tile
CTR	Center or Counter
CW	Curtain Wall
CTW	Ceramic Tile Wainscot
DBL	Double
DEG	Degree
DEMO	Demolition
DF	Drinking Fountain
DIAG	Diagonal
DIA	Diameter
DIM	Dimension
DISP	Dispenser
DMPR	Damproofing
DMT	Demountable
DN	Down
DR	Door
DS	Downspout
DW	Dishwasher
DWG	Drawing
DWR	Drawer
(E)	Existing
E	East
EA	Each
EB	Expansion Bolt
EFC	Epoxy Floor Coating
EJ	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevation or Elevator
EMER	Emergency
ENCL	Enclosure
EP	Electrical Panel or Epoxy Paint
EPS	Expanded Polystyrene
EQ	Equal
EQP	Equipment
ES	Each Side
EW	Each Way
EXEC	Executive
EXH	Exhaust
EXP	Exposed
EXPN	Expansion
EXT	Exterior
EXTN	Extinguisher
F	Float
FA	Fire Alarm
FAWP	Fluid-Applied Waterproofing
FAWRB	Fluid-Applied Weather Resistant Barrier
FAP	Fire Alarm Panel
FC	Furring Channel
FCP	Fiber Cement Panel
FCL	Fiber Cement Lap Siding
FCV	Fiber Cement V-Groove Siding
FCS	Fiber Cement Shiplap Siding
FD	Floor Drain
FE	Fire Extinguisher
FEB	Fire Extinguisher Bracket
FEC	Fire Extinguisher Cabinet
FF	Factory Finish
FFSAM	Foil Faced Self Adhered Membrane
FH	Fire Hydrant
FIN	Finish
FIX	Fixture
FLEX	Flexible
FLR	Floor
FLSH	Flash or Flashing
FND	Feminine Napkin Dispenser
F.O.	Face of
FOB	Face of Brick
FOC	Face of Concrete
FOCL	Face of Column
FOM	Face of Masonry
FOS	Face of Stud
FRL	Fiber Reinforced Laminate
FRP	Fiberglass Reinforced Panels
FRT	Fire Retardant Treated
FS	Foreshortened
FSS	Folding Shower Seat
FT	Feet or Foot
FTP	Fire Tape / Mud
FTG	Footing
GA	Gauge
GB	Gypsum Board
GBR	Grab Bar
GALV	Galvanized
GEJ	Gutter Expansion Joint
GFRC	Glass-Fiber-Reinforced Concrete
GL	Glass
GB-PT	Gypsum Board Paint / Painted
GBCTW	Painted Gypsum with CT Wainscot
GB-PT/W	Painted Gypsum with Wainscot
H	Height
HBD	Hardboard
HDO	High Density Overlay
HDR	Header
HDW	Hardware
HGT	Height
HM	Hollow Metal
HMP	Horizontal Metal Panel
HORZ	Horizontal
HR	Hour
HSD	Hand Sanitizer Dispensor
HSS	Hollow Structural Section
HT	Height
HTSAM	High Temperature Self Adhered Membrane
HVAC	Heating/Ventilating/Air Conditioning
HWH	Hot Water Heater
ID	Inside Diameter
IF	Insulated Float
IGU	Insulated Glass Unit
IFRM	Intumescent Fire-Resistive Material
INCL	Including
INSUL	Insulation
INT	Interior
INV	Invert
ISO	Isometric
IT	Insulated Tempered
IRGB	Impact-Resistant Gypsum Board
JAN	Janitor
JT	Joint
KIT	Kitchen
KO	Knockout
KS	Knee Space
LAB	Laboratory
LAV	Lavatory
LB	Pound or Lag Bolt
LBL	Label
LBS	Pounds
LF	Linear Foot
LH	Left Hand
LIN	Linoleum
LINS	Linoleum Sheet
LINT	Linoleum Tile
LOC	Location
LP	Light Pole
LT	Light
LTWT	Light Weight
LVR	Louver
LWIC	Lightweight Insulating Concrete
MACH	Machine
MAN	Manual
MAT	Material
MAX	Maximum
MB	Machine Bolt or Marker Board
MBR	Member
MDF	Medium Density Fiberboard
MDFS	Medium Density Fiberboard Stripping
MDFW	Medium Density Fiberboard Wainscot
MDO	Medium Density Overlay
M/E	Mechanical/ Electrical
MEAS	Measure
MECH	Mechanical
MED	Medium
MEMB	Membrane
M/E/P	Mechanical/Electrical/Plumbing
MFR	Manufacturer
MHO	Magnetic Hold Open
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MOD	Modular
MTD	Mounted
MTG	Mounting
MTL	Metal
MULL	Mullion
MW	Microwave Oven
N	North
N/A	Not Applicable
NIC	Not In Contract
NO	Number
NOM	Nominal
NTS	Not to Scale
O/	Over
O/R	Oven/Range
OA	Overall
OC	On Center
OD	Outside Diameter
OFF	Office
OH	Overhead
OPG	Opening
OPH	Opposite Hand
OPP	Opposite
OFCI	Owner Furnished, Contractor Installed
OFOI	Owner Furnished, Owner Installed
OSB	Oriented Strand Board
PAV	Paving
PAVER	Pedestal Supported Roof Paver Assembly
PART	Partition or Partial
PC	Polished Concrete
PCC	Precast Concrete
PEMB	Pre-Engineered Metal Building
PERF	Perforated
PERIM	Perimeter
PJ	Panel Joint
PKG	Parking
PL	Property Line or Panel
PLAM	Plastic Laminate
PR	Pair
PREC	Precast
PREFIN	Pre-finished
PROJ	Project
PS	Purse Shelf
PSF	Pounds/Square Foot
PSI	Pounds/Square Inch
PT	Paint(ed) or Point
PTD	Paper Towel Dispenser
PTRT	Pressure Treated
PW	Plywood
QT	Quarry Tile
QTY	Quantity
R	Radius
RAF	Rubber Athletic Flooring
RB	Rubber Base
RC	Resilient Channel
RCP	Reflected Ceiling Plan
RD	Roof Drain
REF	Refrigerator
REINF	Reinforcing
REL	Relocate
REQ'D	Required
REQ'S	Requirements
RESIL	Resilient
RETG	Retaining
RFG	Roofing
RH	Right Hand or Robe Hook
RECEPT	Reception
RECPT	Receptacle
RECT	Rectangular
REF	Reference
REFL	Reflected
REFR	Refrigerator
RFAM	Reinforced Fluid Applied Membrane
RL	Rain Leader
RM	Room
RO	Rough Opening
ROW	Right-of-Way
RT	Rubber Tile
REM	Recessed Exterior Mat
RIM	Recessed Interior Mat
RESF	Resilient Flooring
S	South
SAM	Self Adheared Water Resistant Membrane
SAU	Self-Adheared Underlayment
SB	Splash Block
SC	Solid Core
SCH	Schedule
SCHED	Schedule
SD	Soap Dispenser or Storm Drain
SF	Storefront
SFRM	Sprayed Fire-Resistive Material
SECT	Section
SHT	Sheet
SHTHG	Sheathing
SIM	Similar
SL	Sealed
SM	Sheet Metal
SND	Sanitary Napkin Disposal
SNV	Sanitary Napkin Vendor
SOG	Slab on Grade
SPEC'D	Specified
SPECS	Specifications
SQ	Square
SS	Stainless Steel
SSM	Solid Surface Material
SS TWF	Stainless Steel Through-Wall Flashing
SSW	Stainless Steel Wainscot
SSD	See Structural Drawings
SSL	Stain and Seal
ST	Stain
STG	Storage
STL	Steel
STRUCT	Structural
SU	Synthetic Underlayment
SUSP	Suspended
SV	Sheet Vinyl
SW	Shear Wall
SYM	Symmetrical/Symmetry
T	Tempered
TB	Tackboard
TC	Top of Curb
TCS	Tackable Cork Surface
TEL	Telephone
TG	Translucent Glass
T&G	Tongue and Groove
THK	Thick
T.O.	Top of
TPD	Toilet Paper Dispenser
TSCD	Toilet Seat Cover Dispenser
TWF	Through-Wall Flashing
TYP	Typical
UNF	Unfinished
UNO	Unless Noted Otherwise
UR	Urinal
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIF	Verify in Field
VOL	Volume
VRB	Vented Rubber Base
VWC	Vinyl Wall Covering
VWP	Vinyl Wall Panel
WAF	Wood Athletic Flooring
W	West
WWF	Welded Wire Fabric
W	Width
W/	With
W/D	Washer/Dryer
WB	Wood Base
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WGT	Weight
W/O	Without
WOM	Walk-Off Mat
WP	Waterproof
WR	Weather Resistant or Waste Receptacle
WRB	Weather Resistant Barrier
WRBPS	Weather Resistant Barrier Pre-Strip
WS	Wood Stripping
W	Wainscot or Wood Studs
WT	Weight
WWF	Welded Wire Fabric
XPS	Extruded Polystyrene Board Insulation

GENERAL NOTES

A. GENERAL REQUIREMENTS: IT SHALL BE THE SPECIFIC DUTY AND RESPONSIBILITY OF EACH TRADE AND SUPPLIER TO EXAMINE ALL DRAWINGS, DETAILS AND SPECIFICATIONS, AND TO PROVIDE AND FURNISH PROPER EQUIPMENT, HARDWARE, FIXTURES, MATERIALS, LABOR, ETC., PERTAINING TO THEIR PART OF THE WORK SHOWN OR LISTED IN ANY PART OF THE CONTRACT DOCUMENTS. SCHEDULES ARE FOR THE CONVENIENCE OF THE CONTRACTOR TO ASSIST THEM IN UNDERSTANDING AND CONSTRUCTING THE PROJECT. IT IS THE CONTRACTOR 'S RESPONSIBILITY TO VERIFY THAT ALL ITEMS IN THE SCHEDULES REFLECT THE PLANS AND DETAILS. ANY OMISSIONS OR CONTRADICTIONS IN THESE DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE CONTRACTOR'S FINAL BID. THE CONTRACTOR'S FINAL BID SHALL BE CONSIDERED TO INCLUDE ALL ITEMS SHOWN AND/OR SPECIFIED OR SCHEDULED FOR A COMPLETE PROJECT.

B. CONFLICTING INFORMATION: IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE CONTRACT DOCUMENTS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION, PROCEEDING WITHOUT SUCH CLARIFICATION IS AT THE CONTRACTORS RISK AND COST.

C. SCALING DRAWINGS: DO NOT SCALE DRAWINGS; CONTACT ARCHITECT FOR ANY MISSING OR INACCURATE DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.

D. FLOOR TYPES: SEE BUILDING AND WALL SECTIONS FOR FLOOR TYPE CALLOUTS. SEE A21 SERIES SHEETS FOR FLOOR TYPE DESCRIPTIONS.

E. WALL TYPES: SEE FLOOR PLANS, BUILDING AND WALL SECTIONS FOR WALL TYPE CALLOUTS. SEE A30 SERIES SHEETS FOR EXTERIOR WALL TYPE DESCRIPTIONS AND A31 SERIES SHEETS FOR INTERIOR WALL TYPE DESCRIPTIONS.

F. CEILING TYPES: SEE REFLECTED CEILING PLANS FOR CEILING TYPE CALLOUTS AND FOR CEILING TYPE DESCRIPTIONS.

G. ROOF TYPES: SEE BUILDING AND WALL SECTIONS AND ROOF PLAN FOR ROOF TYPE CALLOUTS. SEE A40 SERIES SHEETS FOR ROOF TYPE DESCRIPTIONS.

H. ROOM FINISH AND COLOR SCHEDULES: SEE A70 & A71 SERIES SHEETS.

I. SIGNAGE: SEE "A2.XXc" FINISH FLOOR PLANS AND A74 SERIES SHEETS.

J. HAZARDOUS MATERIALS:
1. ALL PRODUCTS AND MATERIALS USED IN THIS PROJECT MUST BE CERTIFIED AS BEING "ASBESTOS FREE," NO EXCEPTIONS.
2. NO PRODUCTS CONTAINING PCB OR OTHER HAZARDOUS MATERIALS SHALL BE USED ON THIS PROJECT, NO EXCEPTIONS.
3. NO PRODUCTS CONTAINING LEAD SHALL BE USED ON THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND OWNER.

K. DOWNSPOUTS: THE GENERAL CONTRACTOR SHALL COORDINATE ALL DOWNSPOUT LOCATIONS AND CONNECTIONS TO TIGHTLINES AND STORM DRAINAGE SYSTEM(S) (ALSO SEE NOTE ABOVE). THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS ILLUSTRATE AND DIMENSION DOWNSPOUT LOCATIONS AND SHALL TAKE PRECEDENCE. ALSO SEE CIVIL DRAWINGS AND SPECIFICATIONS. COORDINATE ALL REQUIRED FOUNDATION BLOCK-OUTS WITH STRUCTURAL AND CIVIL DRAWINGS.

L. FINISH LUMBER SIZES: THE LUMBER SIZES SHOWN FOR WOOD BLOCKING, BACKING, ETC., WILL NOT BE ACTUAL SIZES BUT NOMINAL SIZES. FINISHED TRIM CALLOUTS WILL BE A "NET" DRESSED SIZE, TYP. UNLESS NOTES OTHERWISE.

M. INSULATION SYSTEMS: THERMAL INSULATION IS INTENDED TO PROVIDE A CONTINUOUS INSULATED BUILDING ENVELOPE, AND SHALL BE INSTALLED AS SUCH. SOUND INSULATION IN ACOUSTICALLY RATED WALLS IS INTENDED TO PROVIDE A CONTINUOUS ROOM ENVELOPE, AND SHALL BE INSTALLED AS SUCH. IN BOTH CASES, FILL ALL VOIDS IN ASSEMBLIES WITH INSULATION TO PROVIDE A COMPLETE, THOROUGHLY INSULATED ASSEMBLY.

N. VAPOR BARRIER: CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER MEMBRANE AT THE FLOOR SLAB. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO VAPOR BARRIERS, OR REPLACE THEM PRIOR TO COVER, AS APPROVED. CONTRACTOR SHALL EXERCISE CARE DURING THE INSTALLATION OF THE VAPOR BARRIER TO PROVIDE SPECIFIED OVERLAP BETWEEN INDIVIDUAL SHEETS AND SHALL TAPE ALL JOINTS. SHOULD THE MATERIAL BE TORN OR PUNCTURED, PATCH BY ADDITION OF MATERIAL OVER AFFECTED AREA WITH AT LEAST 12" COVERAGE BEYOND DAMAGE, AND TAPE ALL JOINTS. ALSO SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

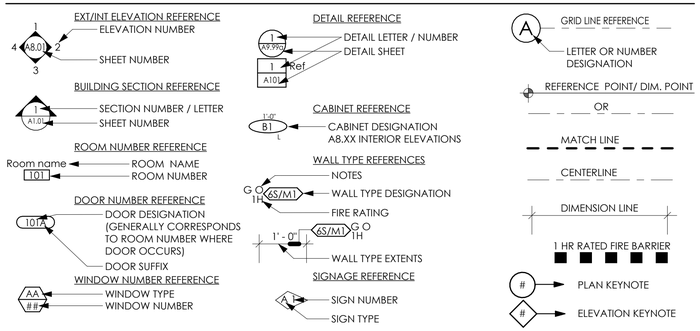
O. AIR BARRIER: A CONTINUOUS AIR BARRIER SHALL BE MAINTAINED AT THE BUILDING'S EXTERIOR MEMBRANE LAYER, AND OR FINISH CEILING WHERE INDICATED. SEE GENERAL NOTES TO THE WALL, ROOF, AND CEILING TYPES AND THE REFLECTED CEILING PLAN GENERAL NOTES FOR MORE INFORMATION. ALL JOINTS, PENETRATIONS, RECESSES, AND CONNECTIONS THROUGH THE AIR BARRIER SHALL BE SEALED AND BE AIR TIGHT IN CONSTRUCTION.

P. WALL OPENINGS: COORDINATE WALL OPENING REQUIREMENTS FOR MECHANICAL DUCTS, PIPES, ETC. AND FOR ELECTRICAL CONDUIT WITH MECHANICAL AND ELECTRICAL DRAWINGS AND PROVIDE AS NEEDED. OPENINGS SHALL BE SIZED ONLY AS NEEDED FOR THESE PENETRATIONS AND SHALL BE SEALED AT EDGES FOR SOUND CONTROL AND FIRE-STOPPED PER SPECIFICATIONS AND BUILDING CODE REQUIREMENTS WHERE REQUIRED, TYP.

Q. FIRE SPRINKLER SYSTEM: SPRINKLER PIPES, DRAIN VALVES AND OTHER COMPONENTS OF THE SYSTEM (EXCEPT HEAD) SHALL NOT BE EXPOSED TO VIEW EXCEPT IN MECHANICAL ROOMS, ELECTRICAL ROOMS, CUSTODIAN ROOMS, ROOMS WITH EXPOSED STRUCTURE AND ATTICS, UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS/DOORS FOR FIRE SPRINKLER SYSTEM ACCESS WHERE SPRINKLER HEADS, DRAIN VALVES, INSPECTORS, TESTS, ETC. ARE INACCESSIBLE WITHOUT DEMOLITION OF BUILDING ELEMENTS. PANELS SHALL BE OF A FUNCTIONAL SIZE FOR APPLICATION, MEET ALL CODE REQUIREMENTS AND GENERAL CONTRACTOR SHALL COORDINATE WITH THE FIRE SPRINKLER SYSTEM DESIGNER (BIDDER / DESIGN) TO ASSURE ALL SUCH PANELS AND INSTALLATION COSTS ARE INCLUDED IN THE BID. ALL PANELS EXPOSED TO VIEW FROM OCCUPIED SPACES SHALL BE OF A FLUSH DESIGN, PAINTED TO MATCH ADJACENT SURFACES AND FIRE RATED WHERE REQUIRED BY CODE. FIRE SPRINKLER SUB-CONTRACTOR SHALL PROVIDE DRAWINGS CLEARLY INDICATING PROPOSED LOCATIONS OF EXPOSED PIPES, SPRINKLER HEADS AND ACCESS PANELS FOR THE ARCHITECT'S REVIEW AND APPROVAL. SHOULD THE ARCHITECT NOT APPROVE OF PROPOSED LOCATIONS, CONTRACTOR AND SPRINKLER SYSTEM DESIGNER SHALL ENDEAVOR TO WORK WITH THE ARCHITECT TO FIND ACCEPTABLE LOCATIONS. SUCH CHANGES SHALL BE INCLUDED IN THE BID COSTS.

R. DEVICE COORDINATION: ARCHITECTURAL DRAWINGS DO NOT ILLUSTRATE ALL MECHANICAL AND ELECTRICAL ITEMS AND DEVICES. ITEMS AND DEVICES WHICH ARE SHOWN ARE FOR COORDINATION AND LOCATING PURPOSES. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. LACK OF ILLUSTRATION OF DEVICES AND/OR BUILDING ELEMENTS ON ARCHITECTURAL DRAWINGS DOES NOT EXCLUDE SUCH WORK FROM BID. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS FOR CLARIFICATION. DO NOT PROCEED WITH WORK WITHOUT CLARIFICATION.

SYMBOLS



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Drawn By MN
Checked By JRM

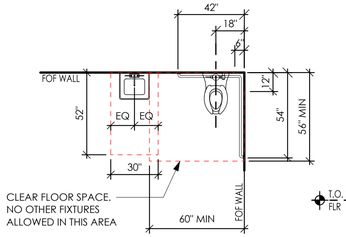
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ABBREVIATIONS, SYMBOLS, GENERAL NOTES & MATERIALS LEGEND

G2.01

Sheet Number Of

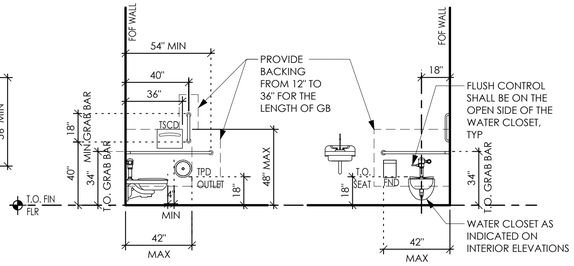
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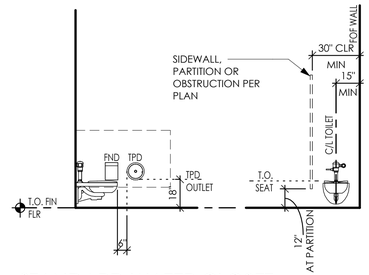
ADA PLUMBING FIXTURE CLEARANCES

ICC A117.1-2017 604.3.1

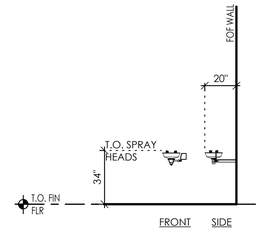


ADA WATER CLOSET

ICC A117.1-2017 604.3.1



STANDARD WATER CLOSET



EMERGENCY EYE WASH AND SHOWER

TYPICAL MOUNTING HEIGHTS AND LOCATIONS

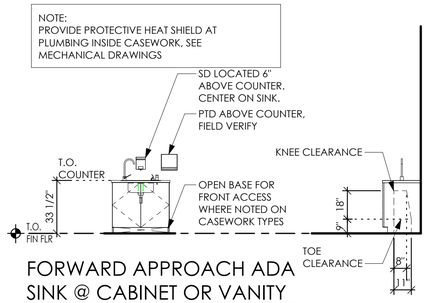
A. ALL FIXTURES AND ACCESSORIES INDICATED TO BE "ADA" COMPLIANT OR "ACCESSIBLE" SHALL FULLY COMPLY WITH ACCESSIBILITY, ADA OR DISABLED CODE REQUIREMENTS OF THE LOCAL JURISDICTION, ANSI 117.1-2017 AND THE ADA (AMERICANS WITH DISABILITIES ACT). ANY CONFLICTS IN THESE DRAWINGS OR BETWEEN CODES AND THE ADA SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY FOR CLARIFICATION, PRIOR TO PROCEEDING WITH INSTALLATION.

B. SEE THE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF SPECIFIC ITEMS. MOUNTING HEIGHTS AND ORIENTATION MAY VARY FROM STANDARD MOUNTING HEIGHTS SHOWN HEREIN. MOUNTING HEIGHTS SHOWN ON THE INTERIOR ELEVATIONS SHALL SUPERSEDE THOSE ON THE TYPICAL MOUNTING HEIGHTS SHEET. **DIMENSIONS GIVEN FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS ARE TO FINISH SURFACES.** CONTRACTOR SHALL CAREFULLY COORDINATE ROUGH-IN LOCATIONS TO ACCOUNT FOR FINISH AND WALLBOARD THICKNESS.

C. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS TO ASSURE ALL FIXTURES AND ACCESSORIES ARE PLACED. IT IS THE INTENT OF THESE DOCUMENTS TO HAVE ALL FIXTURES AND ACCESSORIES PLACED PER DIMENSIONS INDICATED. FLOOR SLOPES AND FINISHES SHALL BE TAKEN INTO ACCOUNT WHEN LOCATING FIXTURES AND ACCESSORIES.

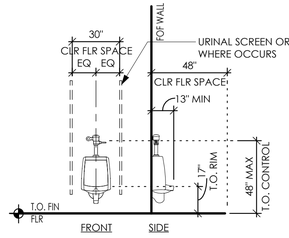
D. GENERAL CONTRACTOR TO PROVIDE BACKING FOR ALL WALL AND CEILING MOUNTED ITEMS INCLUDING NIC, OFOI AND FUTURE ITEMS FOR ALL WALLS AS A PART OF THE BASE BID. INSTALL BACKING PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED BY THE CONTRACT DOCUMENTS. SOLICIT INFORMATION FROM OWNER OR ARCHITECT WHERE NEEDED. SEE SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. CONFIRM MODEL, SIZE AND CONFIGURATION OF OWNER-FURNISHED, CONTRACTOR-INSTALLED TOILET ACCESSORIES BEFORE INSTALLATION OF BACKING IN WALL.

E. NIC, OFOI AND FUTURE WORK: SEE THE FLOOR PLANS, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR INDICATION OF ITEMS NIC (NOT IN CONTRACT), OFCI (OWNER FURNISHED, CONTRACTOR INSTALLED), OFOI (OWNER FURNISHED, OWNER INSTALLED), FUTURE, ETC.



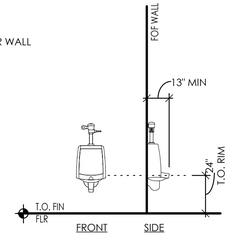
FORWARD APPROACH ADA SINK @ CABINET OR VANITY

ICC A117.1-2017 308.3.2

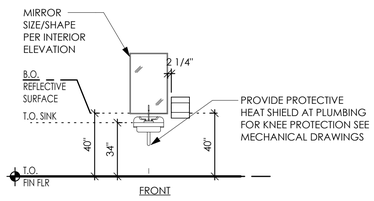


ADA WALL-HUNG URINAL

ICC A117.1-2017 605

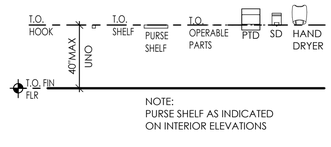


STANDARD WALL-HUNG URINAL



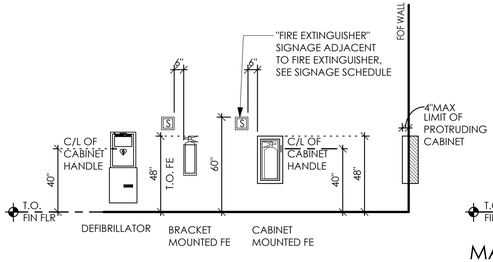
ADA LAVATORY & MIRROR

ICC A117.1-2017 606 AND 306.3



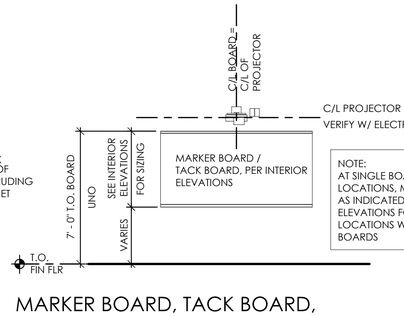
ACCESSORIES @ ADA LAVATORY

ICC A117.1-2017 603.4 AND TABLE 603.6

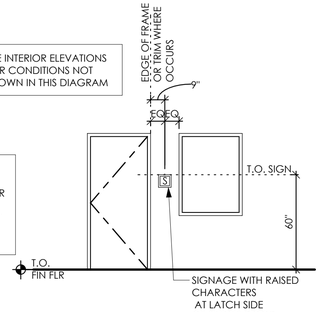


FIRE EXTINGUISHER AND DEFIBRILLATOR

ICC A117.1-2017 307.2 AND NFPA

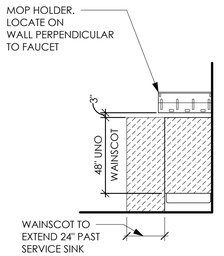


MARKER BOARD, TACK BOARD, AND PROJECTION SCREENS



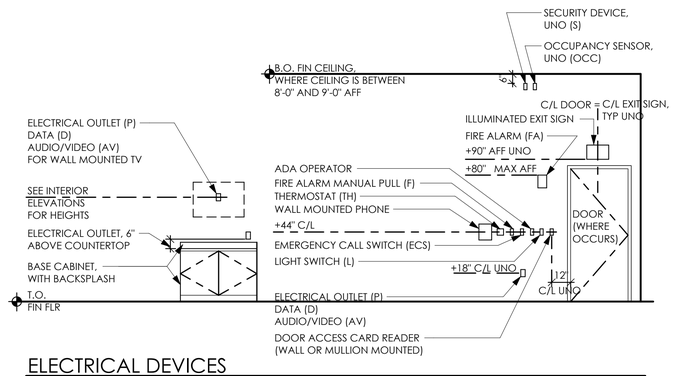
ROOM SIGNAGE

ICC A117.1-2017 703.3.10

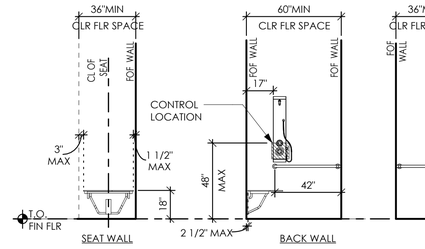


MOP SINK

IBC 1210.2.2

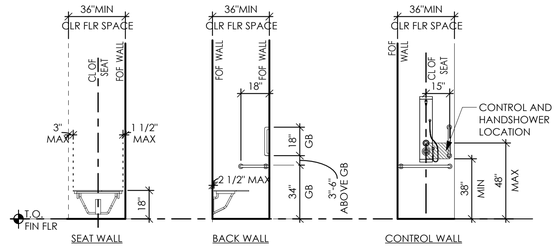


ELECTRICAL DEVICES



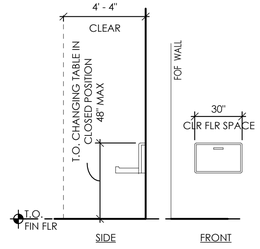
STANDARD ROLL-IN-TYPE SHOWER

ICC A117.1-2017 608.4.2

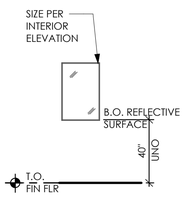


TRANSFER-TYPE SHOWER

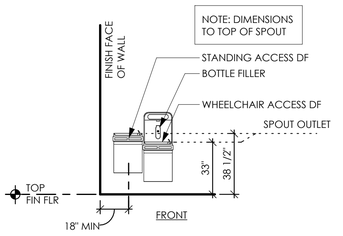
ICC A117.1-2017 608.4.1



DIAPER CHANGING TABLE



MIRROR



STANDARD DRINKING FOUNTAIN & ADA DRINKING FOUNTAIN

ICC A117.1-2017 602

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Client

ABERDEEN SD #5

Project

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2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates

12 AUGUST 2025 95% SD

100% Schematic Design

Not for Construction

Drawn By Author
Checked By Checker

Sheet Title

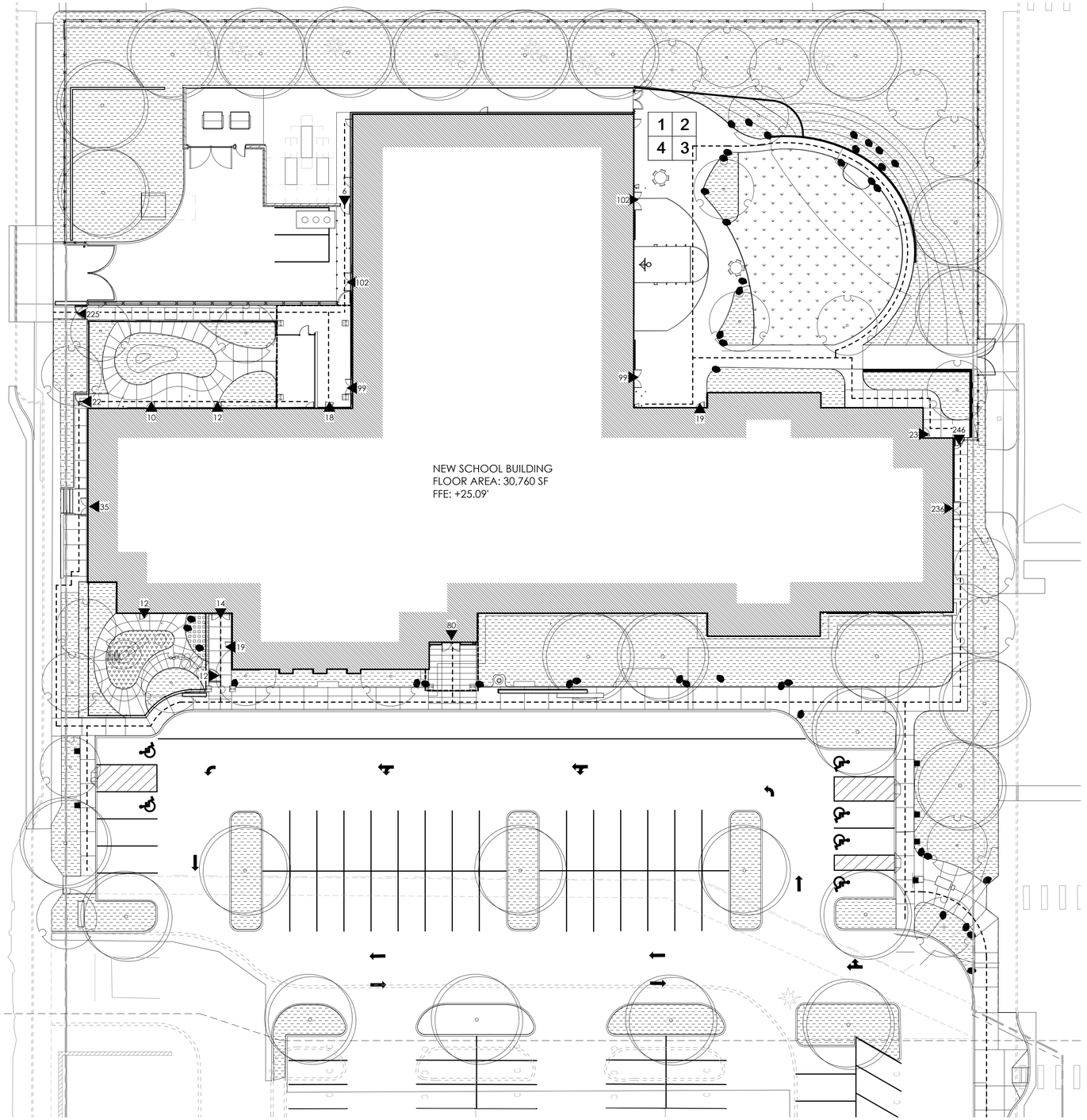
TYPICAL MOUNTING HEIGHTS

G2.02

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1 SITE CODE PLAN
1" = 20'-0"

NORTH

LEGEND

- CONSTRUCTION BOUNDARY LINE
- 6'-0" HIGH EXISTING GALVANIZED CHAINLINK FENCING TO REMAIN PROPERTY LINE
- ADA ROUTING
- VEHICLE SIGN, SEE CIVIL DRAWINGS
- SITE LIGHTING, SEE ELECTRICAL DWGS
- FH FDC PIV FIRE HYDRANTS, FIRE DEPARTMENT CONNECTION & POST INDICATOR VALVE, SEE CIVIL DRAWINGS
- PLAYGROUND SURFACING, OFOI

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NOTE: DRAWING MAY BE REDUCED
0 10' 20' 40'

Drawn By DV
Checked By JRM

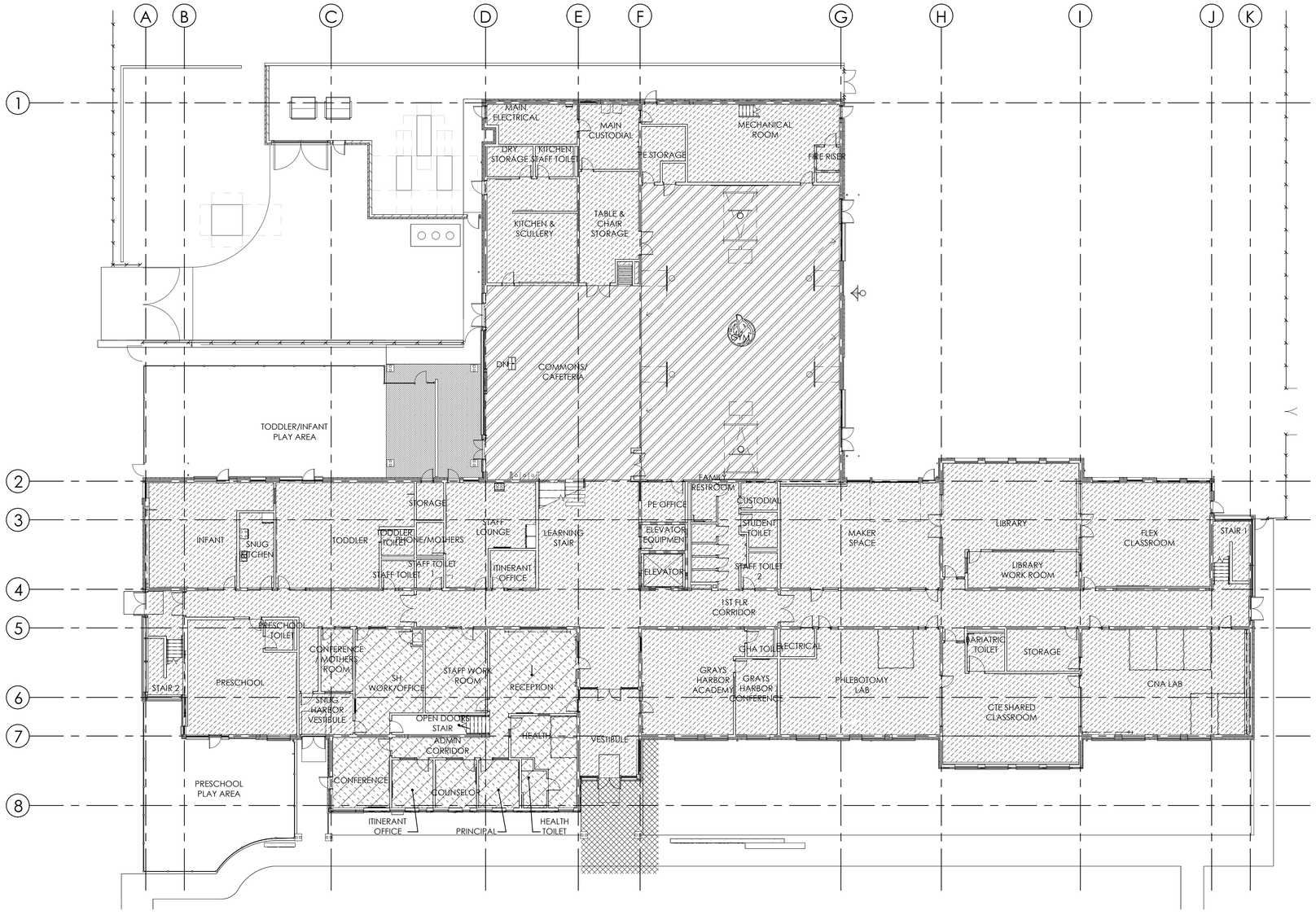
Sheet Title
CODE SITE PLAN

G3.01

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1 FIRST FLOOR AREA & OCCUPANCY PLAN

1/16" = 1'-0"

BUILDING FLOOR AREA

CALCULATED USING INSIDE PERIMETER OF EXTERIOR WALLS PER 2021 IBC 202

FLOOR \ TYPE	AREA NAME	ASSEMBLY A-3	EDUCATIONAL E	BUSINESS B	TOTAL AREA
FIRST FLOOR	GYM & COMMONS	6,125.38 SF			29,133.79 SF
	CLASSROOMS		17,179.32 SF		
	KITCHEN & SERVICES		3,006.38 SF		
	ADMIN			2,822.71 SF	
SECOND FLOOR	CLASSROOMS		15,955.93 SF		16,088.53 SF
	SATELLITE WORK			132.60 SF	
TOTAL AREAS BY OCCUPANCY		6,125.38 SF	36,141.63 SF	2,955.31 SF	45,222.32 SF

LEGEND

CODE BUILDING A (MAIN BUILDING)

- ASSEMBLY GROUP A-3
- EDUCATIONAL GROUP - E
- BUSINESS GROUP - B ACCESSORY TO GROUP E PER 508.2
- EXTERIOR COVERED AREA
- NON-CONCURRENT EXTERIOR COVERED AREA

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100% Schematic Design

Not for Construction

NOTE: DRAWING MAY BE REDUCED

0 8' 16' 32'

Drawn By DV
Checked By JRM

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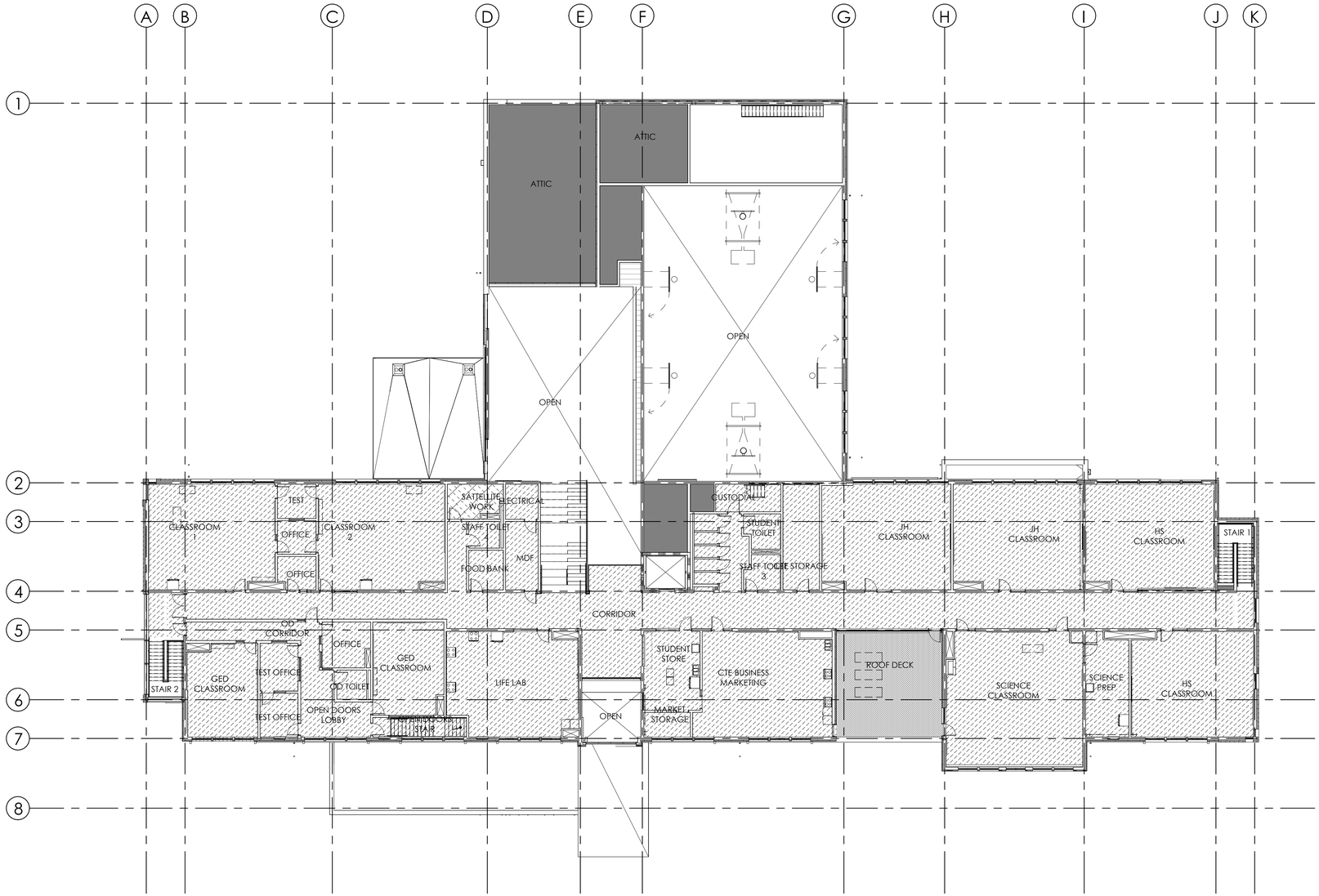
FIRST FLOOR GROSS AREA AND OCCUPANCY GROUP

G3.02a

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1 SECOND FLOOR AREA & OCCUPANCY PLAN

1/16" = 1'-0"

NORTH

BUILDING FLOOR AREA — CALCULATED USING INSIDE PERIMETER OF EXTERIOR WALLS PER 2021 IBC 202

FLOOR \ TYPE	AREA NAME	ASSEMBLY A-3	EDUCATIONAL E	BUSINESS B	TOTAL AREA
FIRST FLOOR	GYM & COMMONS	6,125.38 SF			29,133.79 SF
	CLASSROOMS		17,179.32 SF		
	KITCHEN & SERVICES		3,006.38 SF		
	ADMIN			2,822.71 SF	
SECOND FLOOR	CLASSROOMS		15,955.93 SF		16,088.53 SF
	SATELLITE WORK			132.60 SF	
TOTAL AREAS BY OCCUPANCY		6,125.38 SF	36,141.63 SF	2,955.31 SF	45,222.32 SF

LEGEND

CODE BUILDING A (MAIN BUILDING)

- ASSEMBLY GROUP A-3
- EDUCATIONAL GROUP - E
- BUSINESS GROUP - B ACCESSORY TO GROUP E PER 508.2
- EXTERIOR COVERED AREA
- NON-CONCURRENT EXTERIOR COVERED AREA

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100% Schematic Design

Not for Construction

NOTE: DRAWING MAY BE REDUCED

0 8' 16' 32'

Drawn By DV

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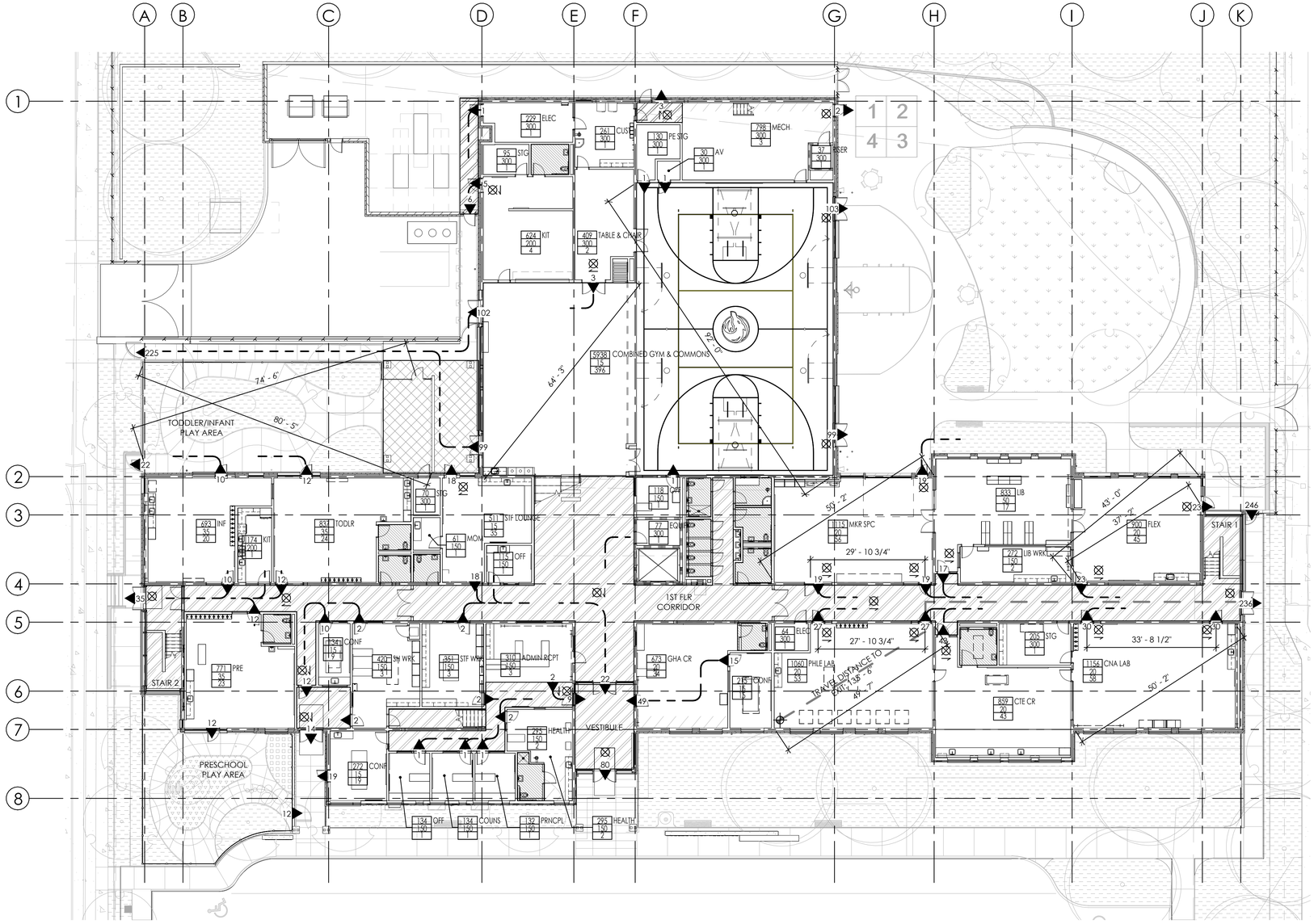
SECOND FLOOR GROSS AREA AND OCCUPANCY GROUP

G3.02b

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1 FIRST FLOOR OCCUPANT LOAD & EXITING PLAN
1/16" = 1'-0"

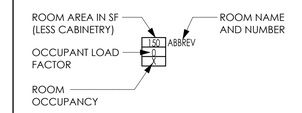
NORTH

SHEET NOTES

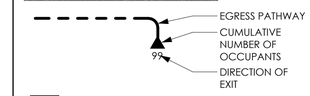
A. FOR EXIT SIGN LOCATIONS, AND TYPES REFER TO ELECTRICAL PLANS
B. FOR FIRE EXTINGUISHER LOCATIONS AND TYPES REFER TO THE FIRE RESISTANCE CODE PLANS
C. FOR PANIC HARDWARE LOCATIONS SEE HARDWARE SCHEDULE IN THE SPECIFICATIONS
D. ALL DOORS IN PATH OF EGRESS ARE REQUIRED TO SWING IN THE DIRECTION OF TRAVEL IF OCC LOAD IS 50 OR MORE

LEGEND

OCCUPANCY TAG



EGRESS PATHWAY & EXIT LOCATION TAG

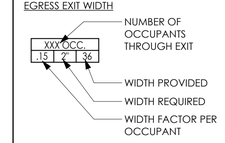


MEANS OF EGRESS COMPONENT

NON-CONCURRENT OCCUPANT LOAD

NON-CONCURRENT OUTDOOR COVERED AREA

EGRESS EXIT WIDTH



EXIT SEPARATION

X' - X" MAX DIAGONAL FOR 2ND EXIT REQUIREMENT AND ASSOCIATED SEPARATION LENGTH DETERMINATION

TRAVEL DISTANCE

DASHED LINE REPRESENTS LONGEST TRAVEL DISTANCE TO AN EXIT PER FLOOR PER BUILDING

ILLUMINATED EXIT SIGNAGE LOCATION WITH BATTERY BACKUP, ARROW INDICATES DIRECTION TO EGRESS, SEE ELECTRICAL DRAWINGS

TCF
124 North 'I' St. Tacoma, WA
www.tcfarchitecture.com
P.253.572.3993

Client
ABERDEEN SD #5

Project
HARBOR LEARNING CENTER
2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates
12 AUGUST 2025 95% SD

100% Schematic Design
Not for Construction

NOTE: DRAWING MAY BE REDUCED
0 8" 16" 32"

Drawn By Author
Checked By Checker

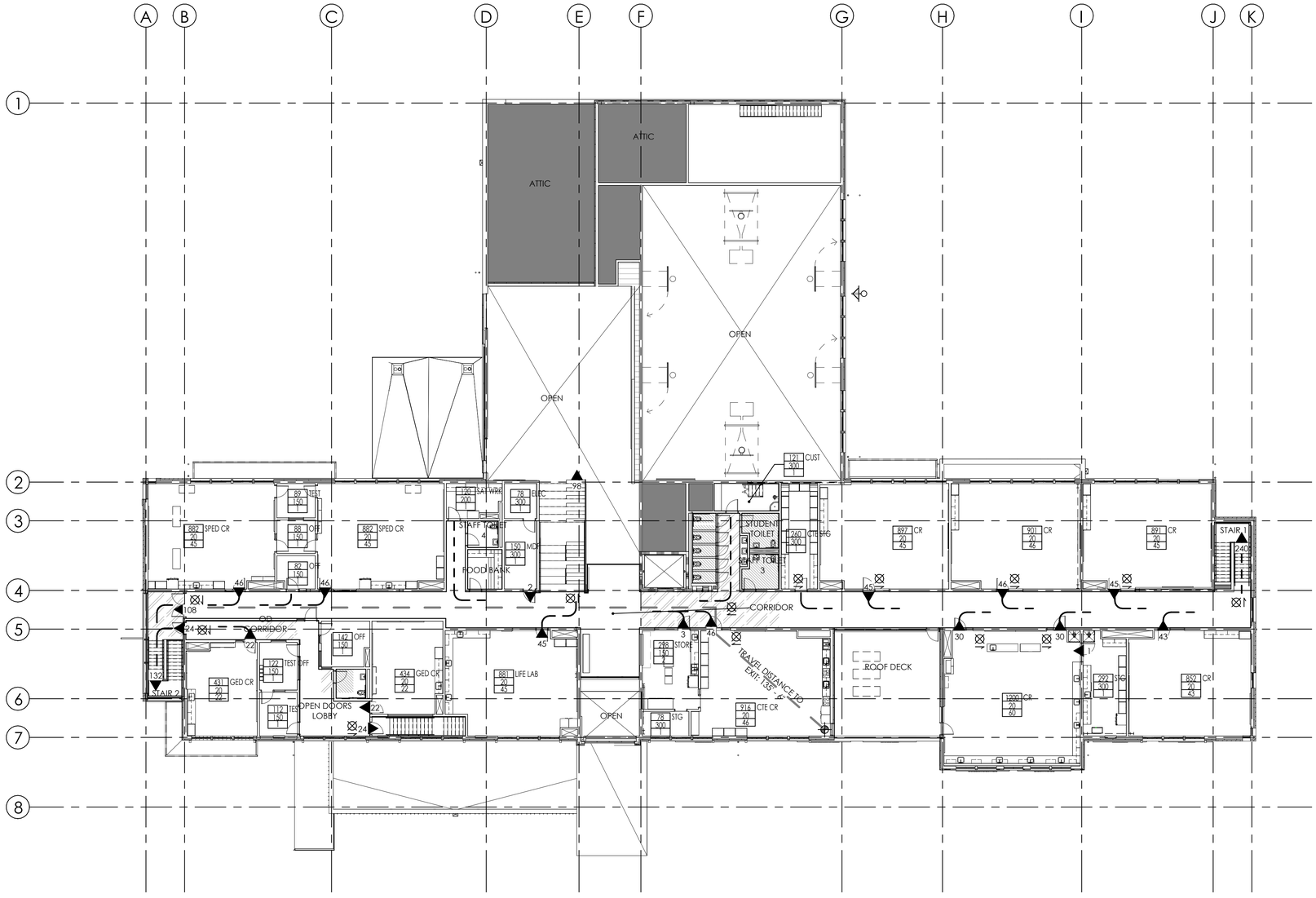
Sheet Title
FIRST FLOOR OCCUPANT LOAD & EXITING PLAN

G3.03a

Sheet Number Of

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1 SECOND FLOOR OCCUPANT LOAD & EXITING PLAN

1/16" = 1'-0"

NORTH

SHEET NOTES

A. FOR EXIT SIGN LOCATIONS, AND TYPES REFER TO ELECTRICAL PLANS
B. FOR FIRE EXTINGUISHER LOCATIONS AND TYPES REFER TO THE FIRE RESISTANCE CODE PLANS
C. FOR PANIC HARDWARE LOCATIONS SEE HARDWARE SCHEDULE IN THE SPECIFICATIONS
D. ALL DOORS IN PATH OF EGRESS ARE REQUIRED TO SWING IN THE DIRECTION OF TRAVEL IF OCC LOAD IS 50 OR MORE

LEGEND

OCCUPANCY TAG

ROOM AREA IN SF (LESS CABINETRY)
OCCUPANT LOAD FACTOR
ROOM OCCUPANCY
ROOM NAME AND NUMBER
150 ABBREV 0 1

EGRESS PATHWAY & EXIT LOCATION TAG

EGRESS PATHWAY
CUMULATIVE NUMBER OF OCCUPANTS
DIRECTION OF EXIT
99

MEANS OF EGRESS COMPONENT

NON-CONCURRENT OCCUPANT LOAD

NON-CONCURRENT OUTDOOR COVERED AREA

EGRESS EXIT WIDTH

XXX OCC. 15 2 36
NUMBER OF OCCUPANTS THROUGH EXIT
WIDTH PROVIDED
WIDTH REQUIRED
WIDTH FACTOR PER OCCUPANT

EXIT SEPARATION

X' - X"
MAX DIAGONAL FOR 2ND EXIT REQUIREMENT AND ASSOCIATED SEPARATION LENGTH DETERMINATION

TRAVEL DISTANCE

DASHED LINE REPRESENTS LONGEST TRAVEL DISTANCE TO AN EXIT PER FLOOR PER BUILDING

ILLUMINATED EXIT SIGNAGE LOCATION WITH BATTERY BACKUP, ARROW INDICATES DIRECTION TO EGRESS, SEE ELECTRICAL DRAWINGS

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100% Schematic Design
Not for Construction

NOTE: DRAWING MAY BE REDUCED
0 8' 16' 32'

Drawn By DV
Checked By JRM

Sheet Title
SECOND FLOOR OCCUPANT LOAD & EXITING PLAN

G3.03b

Sheet Number Of

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SEC 17, TWN 9, RGE 8 & 9, W.M., ABERDEEN, WASHINGTON

HARBOR LEARNING CENTER

SCHEMATIC DESIGN

SURVEY INFORMATION

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/2011 BASED ON GPS AND RTK TIES TO WSDOT MONUMENT "BENN", ID 5114.

VERTICAL DATUM

NAVD 88 BASED ON GPS TIES TO WSDOT MONUMENT "BENN", ELEVATION: 16.201.

BASIS OF BEARING

WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/2011 BASED ON GPS TIES TO WSDOT MONUMENT "BENN", ID 5114.

HELD BEARING S34°27'21"E BETWEEN FOUND ℄ MONUMENTS 1 AND 3 AS BASIS OF BEARING. MONUMENTING N BROADWAY ST.

LEGAL DESCRIPTIONS

LOTS 1 THROUGH 12, INCLUSIVE, BLOCK 6, WEATHERWAX AND BENN'S ADDITION TO THE TOWN OF ABERDEEN, TOGETHER WITH THAT PORTION OF VACATED ALLEY RIGHT-OF-WAY LYING ADJACENT TO SAID BLOCK 6, AS VACATED IN ORDINANCE NO. 6378 RECORDED ON MARCH 30, 2005 UNDER GRAYS HARBOR COUNTY AUDITOR'S FILE NO. 2005-03300038, RECORDS OF GRAYS HARBOR COUNTY;

TOGETHER WITH LOTS 1 THROUGH 12, INCLUSIVE, BLOCK 7, WEATHERWAX AND BENN'S ADDITION TO THE TOWN OF ABERDEEN, TOGETHER WITH THAT PORTION OF VACATED STREET RIGHT-OF-WAY LYING ADJACENT TO SAID BLOCK 7, AS VACATED IN ORDINANCE NO. 5152 RECORDED ON JUNE 06, 1975 UNDER GRAYS HARBOR COUNTY AUDITOR'S FILE NO. 67207, RECORDS OF GRAYS HARBOR COUNTY;

SITUATE IN THE COUNTY OF GRAYS HARBOR, STATE OF WASHINGTON.

SURVEY NOTES:

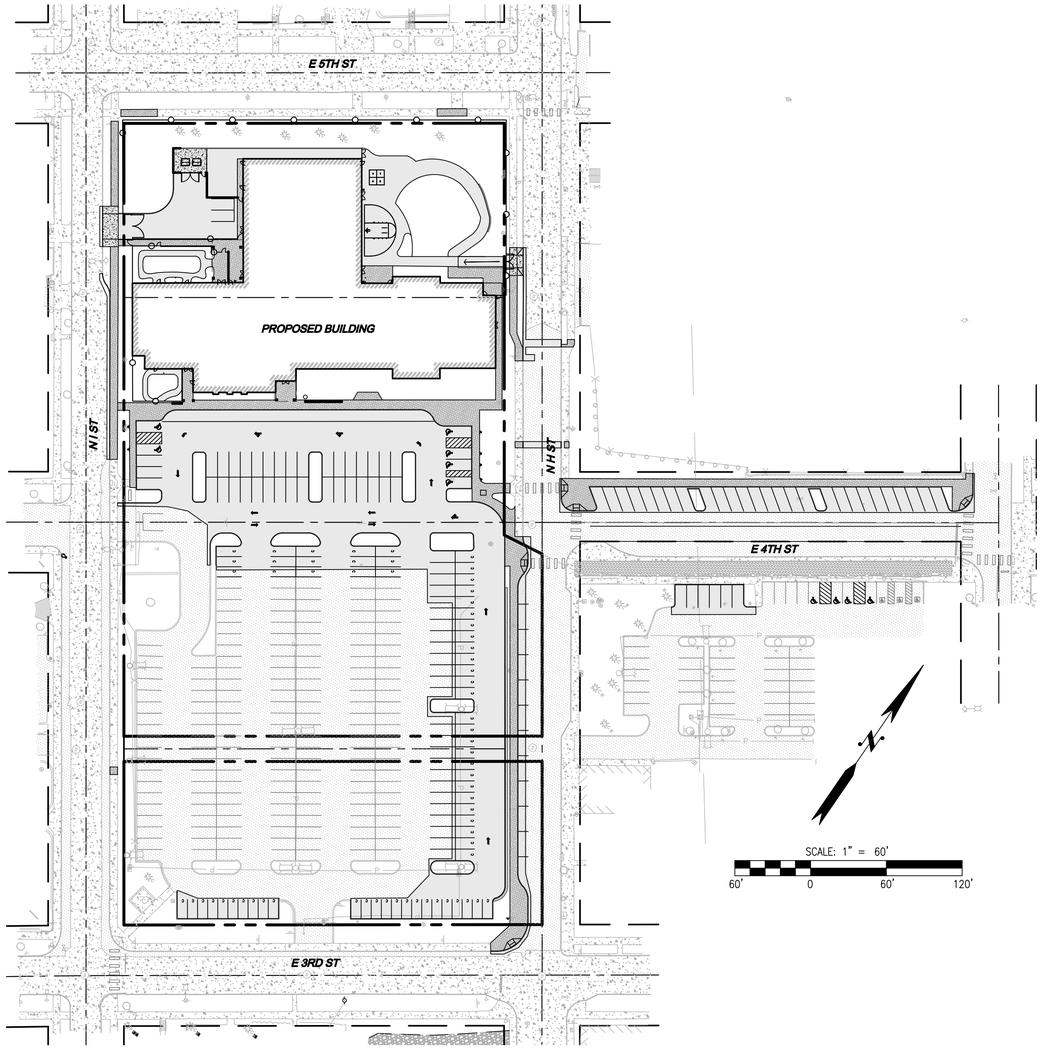
1. INSTRUMENT USED: SOKKIA IX 3" TOTAL STATION AND TOPCON VR GPS.
2. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS OF WAC 332-130-090, 332-130-145.
3. SURVEY COMPLETED 9/18/2024
4. ALL MONUMENTS SHOWN AS FOUND VISITED 8/2024.
5. PURPOSE OF TOPOGRAPHICAL MAPPING IS FOR FUTURE DEVELOPMENT OF SITE.
6. CONTOURS WERE ESTABLISHED FROM FIELD MAPPING, 1' CONTOURS SHOWN.
7. MTN2COAST (M2C) WAS RETAINED BY LDC TO COMPLETE A BOUNDARY AND TOPOGRAPHIC SURVEY OF GRAYS HARBOR COUNTY TPN 029300700000, 029300600000.
8. BOUNDARY ESTABLISHED BASED ON WEATHERWAX BENNS ADDITION TO ABERDEEN RECORDED UNDER VOL 1, PG 14, RECORDS OF GRAYS HARBOR COUNTY. A RECORD OF SURVEY MAP FOR BOUNDARY IS PREPARED SEPARATELY TO BE RECORDED WITH THE COUNTY.
9. A PARTIAL UTILITY SURVEY WAS ALSO DONE, SEE UTILITY NOTE.

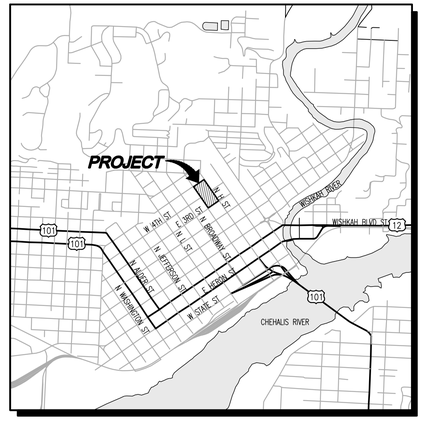
UTILITY NOTE:

UTILITIES SHOWN HEREON ARE FROM FIELD MAPPING VISIBLE SURFACE APPURTENANCES. UTILITY LOCATING SERVICE WAS NOT REQUESTED AT THIS TIME. MTN2COAST (M2C) MAPPED STORM, SEWER AND GAS UTILITY PAINT MARKS FOUND ON THE GROUND. ORIGIN OF THE PAINT MARKS ARE UNKNOWN.
STORM AND SEWER DIPS DONE ONLY, LINES ARE SHOWN. NO UNDERGROUND POWER, WATER, TELEPHONE OR OTHER UTILITY ARE VERIFIED OR SHOWN.
BURIED UTILITIES SHOULD BE VERIFIED BEFORE CONSTRUCTION.

PROJECT INFORMATION

TAX PARCELS:	029300700000; 029300600000
SITE ADDRESS:	410 & 510 N I ST ABERDEEN, WA 98520
SITE AREA:	202,264.84 SF (4.64 AC)
CURRENT ZONING:	MI- MAJOR INSTITUTIONAL
PROPOSED ZONING:	MI- MAJOR INSTITUTIONAL
PROPOSED LAND USE:	EDUCATION
BUILDING SETBACKS:	10' FRONT 5' SIDE, 10' ABUTTING STREET 5' REAR
WATER:	ABERDEEN
SEWER:	ABERDEEN
POWER:	GRAYS HARBOR PUD
GAS:	GRAYS HARBOR PUD
TELEPHONE:	COMCAST OR CENTURYLINK
CABLE:	COMCAST
SCHOOL DISTRICT:	ABERDEEN
FIRE DISTRICT:	ABERDEEN





VICINITY MAP
SCALE: 1"=2000'

TABLE OF CONTENTS

1	CV-01	COVER SHEET
2	EX-01	EXISTING CONDITIONS MAP
3	EX-02	EXISTING CONDITIONS MAP
4	EX-03	EXISTING CONDITIONS MAP
5	EC-01	DEMOLITION AND TESC PLAN
6	SP-01	ON-SITE SITE IMPROVEMENT PLAN
7	SP-02	FRONTAGE IMPROVEMENT PLAN
8	CG-01	ON-SITE GRADING AND DRAINAGE PLAN
9	CG-02	FRONTAGE GRADING AND DRAINAGE PLAN
10	UT-01	WATER AND SANITARY SEWER PLAN

CONTACT LIST

OWNER:
ABERDEEN SCHOOL DISTRICT
216 N. G STREET
ABERDEEN, WA 98520

CIVIL ENGINEER:
LDC, INC.
321 CLEVELAND AVE SE, SUITE 209
TUMWATER, WA 98501
CONTACT: ROSS JARVIS, PE
PHONE: (360) 634-2065
FAX: (425) 482-2893
EMAIL: rjarvis@ldccorp.com

ARCHITECT:
TCF ARCHITECTURE PLLC
902 NORTH 2ND STREET
TACOMA, WA 98403
CONTACT: STEVE WACHTLER, AIA
PHONE: (253) 572-3993
EMAIL: stevew@tcfarchitecture.com

SURVEYOR:
MTN2COAST, LLC
2320 MOTTMAN RD SW STE 106
TUMWATER, WA 98512
CONTACT: SETH PRIGGE, PLS
PHONE: (360) 688-1949
EMAIL:seth@mtn2coast.com

UTILITY NOTE

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

DISCLAIMER

THE TOPOGRAPHIC SURVEY WAS PERFORMED BY MTN2COAST, LLC. IN SEPTEMBER, 2024. ANY CHANGES TO THE SITE AFTER THIS DATE WILL NOT BE REFLECTED IN THE PLANS. ANY DISCREPANCIES FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS NOTED IN THE FIELD SHOULD BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

Call 2 Business Days Before You Dig
811 or 1-800-424-5555
Utilities Underground Location Center

REVISIONS

NO.	DATE	DESCRIPTION	BY

LDC
Surveying
Engineering
Planning
Woodinville
Olympia
321 Cleveland Ave SE, #209
Tumwater, WA 98501
Kent
T 425.806.1869
www.LDCcorp.com
F 425.482.2893

ABERDEEN SCHOOL DISTRICT

HARBOR LEARNING CENTER

COVER SHEET

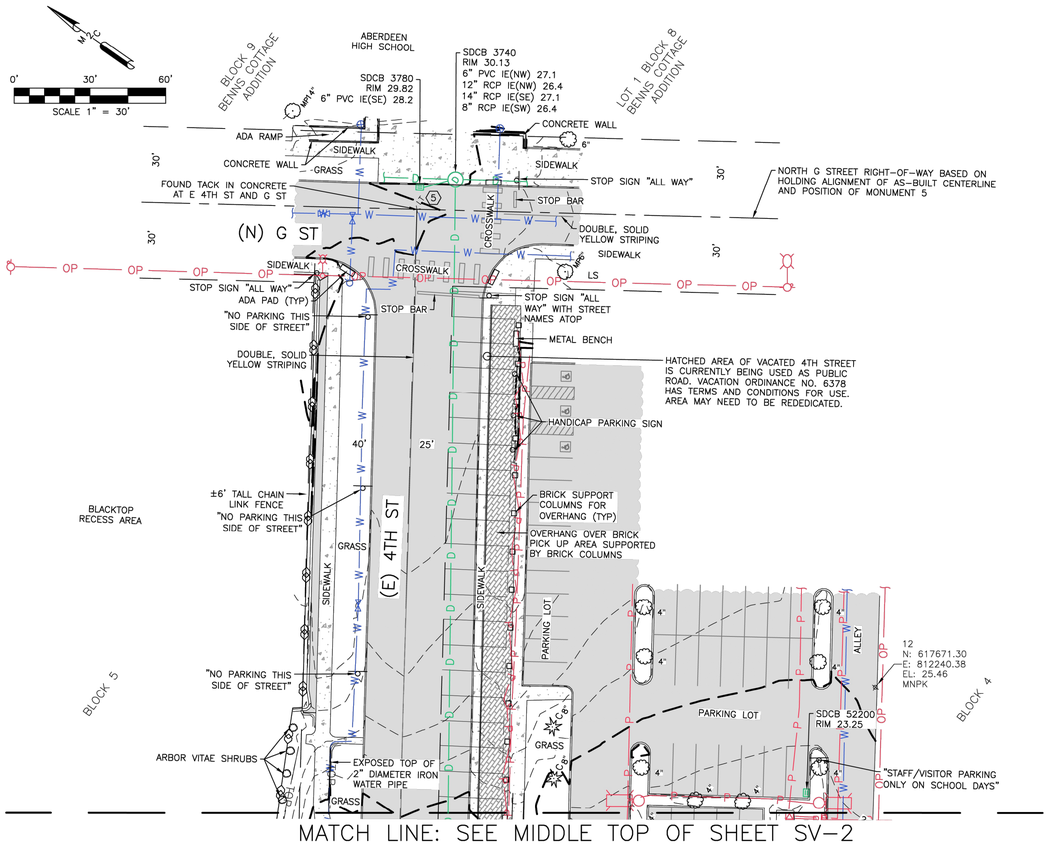
ROSS D. JARVIS
STATE OF WASHINGTON
43668
REGISTERED
PROFESSIONAL ENGINEER
10-22-25

JOB NUMBER:	C25-161
DRAWING NAME:	C25-161 CV-01
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

CV-01

SHEET 1 OF 10

Drawing: P:\Civil\2025\C25-161 Aberdeen SD - Harbor Learning Center\Drawings\Construction\C25-161 CV-01.dwg Plotted: Aug 08, 2025 - 9:11am



LEGEND

- SHRUB
- CEDAR
- DECIDUOUS
- MAPLE
- PINE
- CABLE VAULT/MANHOLE
- SS CLEANOUT
- SS MANHOLE
- SS VALVE
- CULVERT
- STORM CATCH BASIN
- STORM MANHOLE
- STORM CLEANOUT
- IRRIGATION CONTROL VALVE
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER BLOW OFF
- FIRE DEPARTMENT CONNECTION
- WATER METER
- WATER POST INDICATOR VALVE
- WATER FIRE HYDRANT
- WATER VAULT/MANHOLE
- WELL
- NATURAL GAS VALVE
- LUMINAIRE WITH ARM
- LUMINAIRE WITH SHORT ARM
- LUMINAIRE
- GUY ANCHOR
- POWER JUNCTION BOX
- POWER POLE
- PP WITH DROP LINE
- PP WITH DROP AND LIGHT
- PP WITH DROP, LIGHT AND TRANSFORMER
- PP WITH DROP AND TRANSFORMER
- PP WITH LIGHT AND TRANSFORMER
- PP WITH LIGHT
- PP WITH TRANSFORMER
- POWER TRANSFORMER
- BOLLARDS
- POST (AS DESCRIBED)
- WHEEL STOP
- STREET SIGN (AS DESCRIBED)
- FOUND LEAD AND TACK
- FOUND REBAR
- SET 5/8" REBAR WITH YELLOW PLASTIC CAP MARKED "MTN2COAST LS 21013244" PER RD(1)
- SET PK NAIL WITH METAL WASHER MARKED "MTN2COAST LS 21013244" PER RD(1)
- REBAR AND CONTROL CAP (M2C CONTROL)
- HUB AND TACK (M2C CONTROL)

LINE TYPES

- BUILDING LINE
- BUILDING OVERHANG
- CHAIN LINK FENCE
- IRON FENCE
- GROUND TOE
- GROUND TOP
- STORM LINE
- SANITARY SEWER LINE
- BURIED CABLE LINE
- BURIED POWER LINE
- OVERHEAD POWER
- NATURAL GAS LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE
- LOTS LINE
- ROAD CENTERLINE
- RIGHT OF WAY
- OLD RIGHT OF WAY

HATCHING

- ASPHALT
- CONCRETE
- GRAVEL
- RED BRICK
- VACATED RIGHT-OF-WAY (SEE MAP FOR NOTES)

SURVEY NOTES

1. INSTRUMENT USED: SOKKIA IX 3" TOTAL STATION AND TOPCON HIPER VR RTK GPS.
2. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS OF WAC 332-130-090 AND 332-130-145.
3. SURVEY COMPLETED 05/2025.
4. ALL MONUMENTS SHOWN AS FOUND VISITED 08/2024.
5. PURPOSE OF TOPOGRAPHICAL MAPPING IS FOR FUTURE DEVELOPMENT OF SITE.
6. CONTOURS WERE ESTABLISHED FROM FIELD MAPPING, 1' CONTOURS SHOWN.
7. MTN2COAST, LLC (M2C) WAS ORIGINALLY RETAINED 08/2024 BY LDC, INC TO COMPLETE A TOPOGRAPHIC AND RIGHT-OF-WAY SURVEY OF TAX PARCELS 029300700000, 029300600000, AND THE ADJACENT HALF ROAD WIDTH OF THE OF EAST 3RD STREET, EAST 5TH STREET, NORTH I STREET, AND NORTH H STREET. IN 05/2025 M2C WAS RETAINED AGAIN TO COMPLETE ADDITIONAL TOPOGRAPHIC AND RIGHT-OF-WAY SURVEY OF THE ADDITIONAL ROADWAY NOT PREVIOUSLY MAPPED OF EAST 3RD STREET, EAST 4TH STREET, EAST, 5TH STREET, NORTH I STREET, NORTH H STREET, NORTH G STREET AND A PORTION OF TAX PARCEL 029300400100. M2C ALSO MAPPED UTILITY LOCATES OVER THE ENTIRE SITE WITH THE ADDITIONAL WORK IN 08/2024.
8. M2C IS SHOWING BOUNDARY OF GRAYS HARBOR COUNTY TAX PARCELS 029300700000, 029300600000, AND RIGHT-OF-WAY PER RECORD OF SURVEY RECORDED UNDER AFN 2024-10220045.

UTILITY NOTE

UTILITIES SHOWN HEREON ARE FROM FIELD MAPPING VISIBLE SURFACE APPURTENANCES, AND MAPPING UTILITY PAINT MARKS FROM A UTILITY LOCATING SERVICE. BURIED UTILITIES ARE ONLY SHOWN AS APPROXIMATE AND SHOULD BE VERIFIED BEFORE CONSTRUCTION.

DATUM

HORIZONTAL – WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/2011 BASED ON GPS AND RTK TIES TO WSDOT MONUMENT "BENN", ID 5114.

VERTICAL – NAVD 88 BASED ON GPS TIES TO WSDOT MONUMENT "BENN", ELEVATION: 16.201.

HELD BEARING OF SOUTH 34°27'21" EAST BETWEEN FOUND ℄ MONUMENTS OF NORTH BROADWAY STREET AS BASIS OF BEARING.

RD(X) REFERENCED DOCUMENTS

1. RECORD OF SURVEY RECORDED UNDER AFN 2024-10220045.
2. PLAT OF WEATHERWAX BENNS ADDITION TO ABERDEEN RECORDED IN VOLUME 1, PAGE 14.
3. BENNS COTTAGE ADDITION TO ABERDEEN RECORDED IN VOLUME 5, PAGE 29.

(X) MONUMENT NOTES

1. FOUND 2" LEAD WITH TACK IN CASE. HELD POSITION FOR 5TH ST AND BROADWAY ST ALIGNMENT.
2. FOUND 2" LEAD WITH TACK IN CASE.
3. FOUND 3" BRASS CAP WITH PUNCH MARKED "T.S.14-67, B.M.14-43". HELD POSITION FOR BROADWAY ST AND 3RD ST ALIGNMENT.
4. FOUND TACK IN CONCRETE. HELD POSITION FOR 3RD ST AND I ST ALIGNMENT.
5. FOUND TACK IN CONCRETE. HELD POSITION FOR 4TH ST ALIGNMENT.
6. FOUND 5/8" REBAR WITH PUNCH. HELD POSITION FOR 5TH ST AND H ST ALIGNMENT.
7. PREVIOUSLY SET 5/8" REBAR WITH YELLOW PLASTIC CAP MARKED "MTN2COAST LS 21013244" PER RD(1).
8. PREVIOUSLY SET PK NAIL WITH METAL WASHER MARKED "MTN2COAST LS 21013244" PER RD(1).

SHEET INDEX

SV-1	TOPOGRAPHIC MAPPING (UTILITIES INCLUDED), SURVEY NOTES, REFERENCED DOCUMENTS, UTILITY NOTE, MONUMENT NOTES, DATUM, LEGEND, LINE TYPES, HATCHING
SV-2	TOPOGRAPHIC MAPPING
SV-3	STORM AND SEWER INFORMATION

REVISIION NOTE

MTN2COAST, LLC (M2C) WAS REQUESTED BY LDC ON 07/22/2025 TO SHOW THE APPROXIMATE LOCATION OF SIGNIFICANT TREES ON TPN 029300600000 & 029300700000 AND UPDATE PDF SHEETS. TREES ADDED TO THE MAP WERE NOT LOCATED IN THE FIELD AND WERE PLACED AS APPROXIMATE BASED ON AERIAL IMAGERY. SIZE OF TREES WERE NOT COLLECTED. SEE MAP PAGE SV-2 AND FOR LOCATION OF APPROXIMATE TREES ADDED.

DATE	05/30/2025
SCALE	1" = 30'
M2C PROJECT NO.:	24-214
DRAWN	TLM
CHECKED	PBJ
APPROVED	SEP

SETH E. PRIGGE — STATE OF WASHINGTON — 21013244 — REGISTERED PROFESSIONAL LAND SURVEYOR

MTN 2 COAST LLC
PROFESSIONAL LAND SURVEYORS
2320 MOTTMAN RD SW, STE 106
TUMWATER, WA 98512
360.688.1949

PROJECT NAME:
ADDITIONAL MAPPING
ABERDEEN, WASHINGTON
TOPOGRAPHIC SURVEY

CLIENT NAME:
LDC, INC

SHEET NAME: SV-1

SHEET NO. 1 OF 3

SHEET INDEX

SV–1 TOPOGRAPHIC MAPPING (UTILITIES INCLUDED), SURVEY NOTES, REFERENCED DOCUMENTS, UTILITY NOTE, MONUMENT NOTES, DATUM, LEGEND, LINE TYPES, HATCHING

SV–2 TOPOGRAPHIC MAPPING

SV–3 STORM AND SEWER INFORMATION

0' 30' 60'

SCALE 1" = 30'

MATCH LINE: SEE MIDDLE LEFT OF SHEET SV–1

HATCHED AREA OF VACATED 4TH STREET IS CURRENTLY BEING USED AS PUBLIC ROAD. VACATION ORDINANCE NO. 6378 HAS TERMS AND CONDITIONS FOR USE. AREA MAY NEED TO BE REDEDICATED.

HATCHED AREA OF VACATED H STREET IS CURRENTLY BEING USED AS PUBLIC ROAD. VACATION ORDINANCE NO. 5152 HAS TERMS AND CONDITIONS FOR USE. AREA MAY NEED TO BE REDEDICATED.

PLAYGROUND

ST MARY SCHOOL

CONCRETE STEPS WITH ±3' TALL METAL HANDRAILS

FLAG POLE

±4' TALL CHAIN LINK FENCE ATOP CONCRETE RETAINING WALL

±5' TALL IRON FENCE

±4' TALL CHAIN LINK FENCE

CONCRETE RETAINING WALL WITH ±6' TALL CHAIN LINK FENCE

CONCRETE RETAINING WALL WITH ±3' TALL METAL HANDRAIL

FOUND 5/8" REBAR WITH PUNCH

STACKED RAILROAD TIE RETAINING WALL

STOP SIGN

BUILDING OVERHANG

DRIVEWAY

LANDSCAPE BLOCK RETAINING WALL 11 CONCRETE STEPS

LANDSCAPE BLOCK RETAINING WALL

5 CONCRETE STEPS

CONCRETE RETAINING WALL

7 CONCRETE STEPS

CONCRETE RETAINING WALL

(E) 5TH ST

(N) H ST

(E) 4TH ST

DOUBLE, SOLID YELLOW STRIPING

STOP SIGN "ALL WAY"

CROSSWALK

SIDEWALK

GRASS

ALLEY

POWER TRANSFORMER IS ON RAISED CONCRETE PAD

"STAFF/VISITOR PARKING ONLY ON SCHOOL DAYS"

PARKING LOT

GRAYS HARBOR YOUTH WORKS

BRICK SUPPORT COLUMNS FOR OVERHANG (TYP)

"NO PARKING THIS SIDE OF STREET"

(VACATED H ST PER ORDINANCE NO. 5152, AFN 67207)

QUARRY SPALLS

STATUE

CONCRETE PLANTER (TYP)

MEMORIAL PLAQUE

MONUMENT ROCK

HANDICAP PARKING SIGNS

TRASH CAN

STORM SWALE

"NO PARKING THIS SIDE OF STREET"

±4' TALL FENCE

SEE REVISION NOTE SV–1

MEMORIAL PLAQUE FLUSH WITH GROUND IN 2'X2' CONCRETE

5
N: 617788.58
E: 811800.92
EL: 26.19
MNCC

10
N: 617713.46
E: 811779.84
EL: 25.20
MNHT

20' WIDE ALLEY VACATED PER ORDINANCE NO. 6378, AFN 2005–03300038 CITY RETAIN EASEMENT OVER VACATED ALLEY.

GRASS FIELD

BLOCK 6

BLOCK 7

PLAT OF WEATHERWAX BENNS ADDITION TO ABERDEEN VOL 1 PG 14

(VACATED 4TH ST PER ORDINANCE NO. 5152, AFN 67207)

NO PARKING

LS

PARKING LOT

LINE SHOWN PER UTILITY PAINT MARKS; ORIGIN OF PAINT MARKS UNKNOWN

UNEVEN ASPHALT (TYP)

PRIVATE PROPERTY SIGN

METAL BOLLARDS FOR SLIDE GATE CONTAINMENT

GATE OPERATOR

SLIDE GATE

KEYPAD POST

METAL POSTS FOR SLIDE GATE CONTAINMENT

NO TRESPASSING, VIDEO SURVEILLANCE, AND ICY CONDITIONS SIGNS

"NO PARKING THIS SIDE OF STREET"

PARKING INFORMATION SIGN

WHITE STRIPING

±1.5'TALL BRICK WALL

11
N: 617322.59
E: 811917.83
EL: 21.48
MNPK

PAINTED BOULDER

NO TRESPASSING SIGN

GATE OPERATOR

(N) I ST

ADA PAD

FOUND TACK IN CONCRETE

(E) 3RD ST

STOP SIGN "ALL WAY"

BUILDING

STOP SIGN "4–WAY" WITH STREET NAMES ATOP

STOP BAR

ECO BLOCK (TYP)

GRAVEL PARKING AREA

±8' TALL HEDGE

5' TALL CHAIN LINK FENCE

5' TALL CONCRETE WALL

7 CONCRETE STEPS

STOP SIGN "4–WAY"

"NO PARKING THIS SIDE OF STREET"

STOP SIGN "4–WAY" WITH ±2.5' TALL HEDGE

NEIGHBORHOOD WATCH SIGN

±4' CHAIN LINK FENCE

±0.5' TALL RAILROAD TIE RETAINING WALL

WOOD STEPS

CONCRETE STEPS

STOP SIGN WITH STREET NAMES ATOP

11 CONCRETE STEPS WITH IRON RAILING ON EACH SIDE

4" DIAMETER METAL BOLLARD ±4' TALL

±4' TALL AMAZING GRACE LUTHERAN CHURCH MONUMENT SIGN SITS ON CONCRETE PAD

CHURCH PARKING LOT

LANDSCAPE STONE RETAINING WALL

±4' TALL WOOD SIGN FOR DRIFTWOOD THEATER

PILE OF LARGE BOULDERS

TOP OF 4" DIAMETER PVC PIPE EXPOSED ABOVE SURFACE GRADE

NO PARKING SIGN

40'

DATE	05/30/2025
SCALE	1" = 30'
M2C PROJECT NO.:	24–214
DRAWN	TLM
CHECKED	PBJ
APPROVED	SEP

SETH E. PRIGGE — STATE OF WASHINGTON — 21013244 — REGISTERED PROFESSIONAL LAND SURVEYOR

MTN 2 COAST LLC
PROFESSIONAL LAND SURVEYORS
2320 MOTTMAN RD SW, STE 106
TUMWATER, WA 98512
360.688.1949

PROJECT NAME:

ADDITIONAL MAPPING
ABERDEEN, WASHINGTON
TOPOGRAPHIC SURVEY

CLIENT NAME:

LDC, INC

SHEET NAME: SV–2

SHEET NO. 2 OF 3

SHEET INDEX

SV–1 TOPOGRAPHIC MAPPING (UTILITIES INCLUDED), SURVEY NOTES, REFERENCED DOCUMENTS, UTILITY NOTE, MONUMENT NOTES, DATUM, LEGEND, LINE TYPES, HATCHING
SV–2 TOPOGRAPHIC MAPPING
SV–3 STORM AND SEWER INFORMATION

SCALE 1" = 30'

MATCH LINE: SEE MIDDLE LEFT OF SHEET SV–1

(E) 4TH ST
(N) H ST
(E) 5TH ST
(E) 3RD ST
(N) I ST
BLOCK 6
BLOCK 7
PLAT OF WEATHERWAX BENNS ADDITION TO ABERDEEN VOL 1 PG 14

SDMH 3110 RIM 42.46 (SEWER LID) 8" RCP(NW,SW) IE ℄ CHANNEL 39.3 8" PVC IE(E) 38.4
SDCB 3949 RIM 41.93 8" PVC IE(SW) 39.6 8" PVC IE(W) 39.5
SDMH 3111 RIM 44.10 8" DI IE(SW) 41.2
SDCB 3112 RIM 45.05 8" DI IE(SE) 44.2
SSMH 2911 RIM 45.78 8"PVC ℄ CHANNEL NW, SE 39.1
SDCB 3113 RIM 45.25 8" DI IE(SE) 44.4
FOUND 5/8" REBAR WITH PUNCH
MP#1
SDMH 3109 RIM 43.12 IE 8" DI S 40.7
SDMH 3108 RIM 42.33 8" DI IE(N) 37.1 8" PVC IE(N) 38.3 8" DI IE(NE) 37.1
SSMH 4172 RIM 42.74 UNABLE TO OPEN STRUCTURE
SDCB 4389 RIM 33.84 6" PVC IE(SE) 32.8
SSMH 4384 RIM 34.68 8" PVC IE(NE) 27.9 8" PVC IE(SW) 27.7
SDMH 4388 RIM 33.99 6" PVC IE(NW) 32.1 8" DI IE(E) 30.5
SDCB 4110 RIM 33.54 8" DI IE(W) 32.7
SDCB 4098 RIM 34.22 8" PVC IE(SE) 32.7 8" PVC IE(E) 32.6
SDMH 2933 RIM 33.28 BRICK STRUCTURE 8" DI IE(NW) 28.6 8" DI IE(W) 28.6 18" DI IE(SW) 27.9 8" DI IE(S) 28.7 12" DI IE(SE) 27.8 6" DI IE(SE) 30.0 8" DI IE(NE) 27.9 8" DI IE(NW) 28.1
SDCB 1331 RIM 32.09 BRICK STRUCTURE 6" DI IE(NW) 30.0
SDCB 1109 RIM 29.34 8" DI IE(NE) 27.3
SDCB 1102 RIM 28.72 8" DI IE(SW) 24.7 8" CPP IE(SE) 24.7
SSMH 1375 RIM 27.29 6" PVC IE(W) 20.4 8"PVC IE(SW) 18.3 8"PVC IE(SE) 18.1 8"PVC IE(NE) 18.2
SDMH 2942 RIM 27.02 8" CPP IE(NW) 21.2 6" PVC IE(W) 21.9 8" PVC IE(SE) 21.0 12" PVC IE(SW) 21.0
SSMH 1119 RIM 27.89 8" PVC IE(SE) 20.4 8" PVC IE(NW) 20.5 8" PVC IE(NE) 20.6
4" CPP CULVERT IE (NE) 26.4
5 N: 617788.58 E: 811800.92 EL: 26.19 MNCC
10 N: 617713.46 E: 811779.84 EL: 25.20 MNHT
SDMH 3503 RIM 19.69 10" PVC IE(NE) 15.6 6" DI IE(NE) 13.9 10" PVC IE(S) 13.9 12" CPP IE(W) 14.6
SDCB 1130 RIM 20.04 8" PVC IE(SW) 17.5 8" PVC IE(SE) 17.6
4" CPP CULVERT IE(W) 26.9
SSMH 1133 RIM 19.43 8" PVC(SW,NW,SE) IE ℄ CHANNEL 6.5
SDCB 1127 RIM 20.25 8" PVC IE(NE) 18.0
SDCB 1093 RIM 23.67 8" CPP IE(NW) 18.6 12" CMP IE(SE) 17.8 12" CPP IE(SW) 18.4
SDCB 1143 RIM 22.45 BRICK STRUCTURE CIRCULAR LID 12" PVC IE(SE) 18.3 8" DI IE(W) 18.7 12" DI IE(NW) 18.3
SDCB 1155 RIM 24.17 12" CPP IE(NE) 21.8
SDCB 1153 RIM 21.92 6" DI IE(SE) 21.0
SDCB 53300 RIM 22.74 8" DI IE(SE) 21.9
SDMH 1150 RIM 22.49 BRICK STRUCTURE 1' WIDE 2' TALL CUTOUT IN WALL, DI IE(SE) 18.9 6" PVC IE(N) 20.3 6" DI IE(W) 20.7 4" DI IE(NW) 20.7
SSMH 1146 RIM 22.66 BRICK STRUCTURE 6" DI IE(NW) 20.5 4" DI IE(W) 20.5 8" DI IE(SW) 20.4 1' WIDE 2' TALL CUTOUT IN WALL, DI IE(E) 19.1
SDCB 53060 RIM 22.39 6" DI IE(NE) 21.6
SSMH 1140 RIM 22.49 8" PVC IE(SW) 9.3 8" PVC IE(NE) 8.9 8" PVC IE(SE) 9.2 8" PVC IE(NW) 11.0
SDMH 3502 RIM 19.16 6" CPP IE(NE) 12.7 12" PVC IE(NW) 14.0 12" PVC IE(SE) 12.5
SDCB 1081 RIM 17.91 12" PVC IE(E) 14.9 12" DI IE(SW) 14.9
SDCB 5476 RIM 12.74 12" PVC IE(NW) 9.6 12" PVC IE(SE) 9.8
12" DI CULVERT IE(NE) 14.34
12" CMP CULVERT IE(NW) 14.82
12" DI CULVERT IE(SW) 14.45
SSMH 2959 RIM 13.25 8" PVC(NW,SW,NE,SE) IE ℄ CHANNEL 6.4
SDCB 1221 RIM 17.32 8" DI IE(SE) 15.0
SDCB 1224 RIM 16.79 8" DI IE(NW) 14.8 12" DI IE(NE) 14.5 12" DI IE(SE) 14.6
SDCB 1228 RIM 16.80 12" DI IE(NW) 14.9
SDCB 1217 RIM 19.47 12" PVC IE(W) 15.1 12" PVC IE(SE) 15.2
SDCB 1213 RIM 19.37 12" PVC IE(NW) 15.8
SDCB 1220 RIM 20.36 12" PVC IE(E) 15.4
SDMH 1178 RIM 19.46 BRICK STRUCTURE 12" DI IE(NW) 9.9 24" RCP DI(E) 9.7 8" DI IE(E) 14.5 8" PVC IE(SW) 14.3 8" PVC IE(SW) 13.5
SDMH 1174 RIM 19.80 24" RCP IE(W) 10.2 24" RCP IE(SE) 9.9 1' WIDE BRICK CHANNEL FILLED WITH DIRT, IE(E) 10.4
11 N: 617322.59 E: 811917.83 EL: 21.45 MNPK
SDCB 1181 RIM 18.95 6" PVC IE(SW) 17.9
SDCB 2955 RIM 19.08 IE 6"DI N 18.2
SDMH 2953 RIM 19.40 8" PVC IE(NW) 9.3 8" DI IE(SE) 12.0
SDMH 2952 RIM 19.06 CONCRETE BLOCK STRUCTURE 12" DI IE(NW) 10.0 12" DI IE(SE) 9.9 8" PVC IE(W) 16.8
SDCB 2951 RIM 18.56 6" PVC IE(SE) 17.8
SSMH 2954 RIM 19.02 8" PVC(SW)/8" DI(NW) IE ℄ CHANNEL 12.2
SDMH 1184 RIM 19.12 1'X1' DI CHANNEL CUTOUT IN WALL IE(NW) 14.9 4" DI IE(W) 16.3 12" PVC IE(NW) 16.4 6" PVC IE(NE) 16.8 6" DI IE(S) 16.3 8" DI IE(SE) 16.3
SDCB 1080 RIM 11.30 6" PVC IE(SE) 10.0
18" PVC CULVERT IE(SW) 12.36
SDCB 1073 RIM 10.98 8" CMP IE(NE) 10.0
SDCB 1072 RIM 11.16 CIRCULAR LID 6" PVC IE(NW) 9.3 8" CMP IE(SW) 9.6 8" RCP IE(SE) 9.5
SDCB 5400 RIM 11.74 12" PVC IE(NW) 9.3 12" PVC IE(SE) 9.5
SDCB 5442 RIM 12.67 6" PVC IE(N) 10.6 6" PVC IE(E) 10.5 8" PVC IE(S) 10.5
SDCB 5396 RIM 11.77 8" DI IE(SW) 11.0
SDMH 5395 RIM 11.53 8" PVC IE(N) 9.9 8" PVC IE(NE) 9.8 6" RCP IE(NW) 9.8
SSMH 2958 RIM 11.89 (RECTANGLE CUTOUT ON WALL, CANNOT SEE PIPE) IE(NW,SE) 8.1 8" DI IE(SW) 8.8 8" DI IE(S) 9.0 8" DI IE(NE) 8.8
SDMH 5378 RIM 11.88 8" DI IE(S) 10.5 6" RCP IE(SW) 9.9
SDMH 5337 RIM 11.72 8" DI IE(N) 9.3 10" RCP IE(NW) 9.4 10" RCP IE(S) 9.0 8" RCP IE(SW) 9.5
SDMH 5369 RIM 11.31 6" RCP IE(NW) 9.3 8" RCP IE(NE) 9.5 6" RCP IE(SE) 9.7
SDMH 1201 RIM 11.56 16" RCP IE(W) 5.4 22" DI IE(NE) 8.4 30" RCP IE(SE) 4.7 6" PVC IE(SW) 9.3
SDCB 5367 RIM 10.72 6" PVC IE(SE) 9.4
SDMH 1197 RIM 13.51 24" RCP IE(SW) 8.3 18" RCP IE(W) 8.5 24" RCP IE(E) 8.2 18" PVC IE(NE) 9.1 6" PVC IE(NE) 10.1
SSMH 2957 RIM 16.42 DRY, NOT IN USE 8" DI(SW,NE) IE ℄ CHANNEL 12.2
SSMH 2956 RIM 22.36 DRY, NOT IN USE 8" DI(NW,SW,SE) IE ℄ CHANNEL 17.8
SDCB 4715 RIM 21.81 8" DI IE(NE) 21.0
FOUND TACK IN CONCRETE
SDMH 1192 RIM 21.86 24" RCP(NW,NE) ℄ CHANNEL 9.7
SDCB 4730 RIM 21.87 8" DI IE(NW) 21.0
SDMH 4731 RIM 22.06 0.8'X0.7" CONCRETE CHANNEL CUTOUT IN WALL IE(NW,SE) 19.0

DATE	05/30/2025
SCALE	1" = 30'
M2C PROJECT NO.:	24–214
DRAWN	TLM
CHECKED	PBJ
APPROVED	SEP

SETH E. PRIDGE — STATE OF WASHINGTON — 21013244 — REGISTERED PROFESSIONAL LAND SURVEYOR

MTN 2 COAST LLC
PROFESSIONAL LAND SURVEYORS
2320 MOTTMAN RD SW, STE 106
TUMWATER, WA 98512
360.688.1949

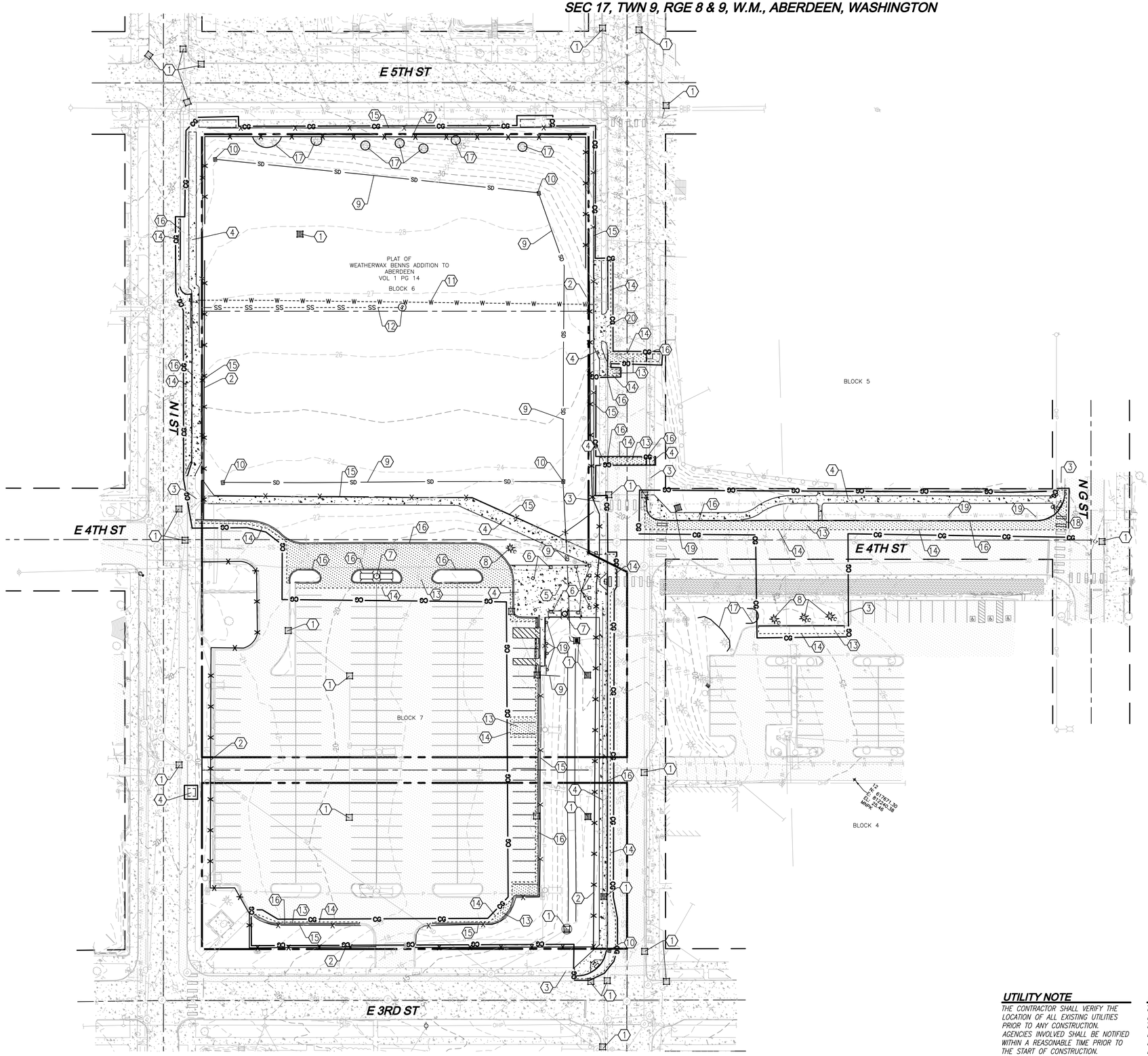
PROJECT NAME:
ADDITIONAL MAPPING
ABERDEEN, WASHINGTON
STORM AND SEWER LINES

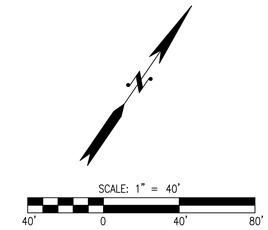
CLIENT NAME:
LDC, INC

SHEET NAME: SV–3

SHEET NO. 3 OF 3

SEC 17, TWN 9, RGE 8 & 9, W.M., ABERDEEN, WASHINGTON





LEGEND

- CG — CLEARING LIMITS
- X X — SILT FENCE
- TREE PROTECTION FENCE
- STORM DRAIN INLET PROTECTION
- SAWCUT
- ASPHALT PAVEMENT REMOVAL
- CEMENT CONCRETE REMOVAL

XX DEMOLITION AND TESC NOTES

1. INSTALL STORM DRAIN INLET PROTECTION
2. INSTALL SILT FENCE
3. PROTECT IN-PLACE EXISTING CONCRETE SIDEWALK
4. REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK
5. REMOVE EXISTING STATUE FOR RELOCATION, SEE LANDSCAPE PLANS FOR PROPOSED LOCATION
6. REMOVE AND DISPOSE OF EXISTING CONCRETE BLOCK
7. REMOVE AND DISPOSE OF EXISTING LIGHT POLE
8. REMOVE AND DISPOSE OF EXISTING TREE, INCLUDING ROOTBALL
9. REMOVE AND DISPOSE OF EXISTING STORM DRAIN LINE. BACKFILL AND COMPACT TO 95%
10. REMOVE AND DISPOSE OF EXISTING CATCH BASIN
11. REMOVE AND DISPOSE OF EXISTING WATER LINE AND CAP AT PROPERTY LINE. BACKFILL AND COMPACT TO 95%
12. REMOVE AND DISPOSE OF EXISTING SEWER LINE AND MANHOLE. BACKFILL AND COMPACT TO 95%.
13. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT
14. SAWCUT
15. REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE.
16. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB
17. INSTALL TREE PROTECTION FENCING
18. EXISTING HYDRANT TO BE RELOCATED, SEE SHEET UT-01
19. REMOVE AND DISPOSE OF EXISTING SIGN AND POST
20. REMOVE AND DISPOSE OF EXISTING DRIVEWAY ENTRANCE

UTILITY NOTE

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

DISCLAIMER

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Tumwater, WA 98501
Kent
T 425.806.1869
www.LDCcorp.com
F 425.482.2893

ABERDEEN SCHOOL DISTRICT

HARBOR LEARNING CENTER

DEMOLITION AND TESC PLAN

ROSS D. JARVIS
STATE OF WASHINGTON
43668
REGISTERED
PROFESSIONAL ENGINEER
10-28-25

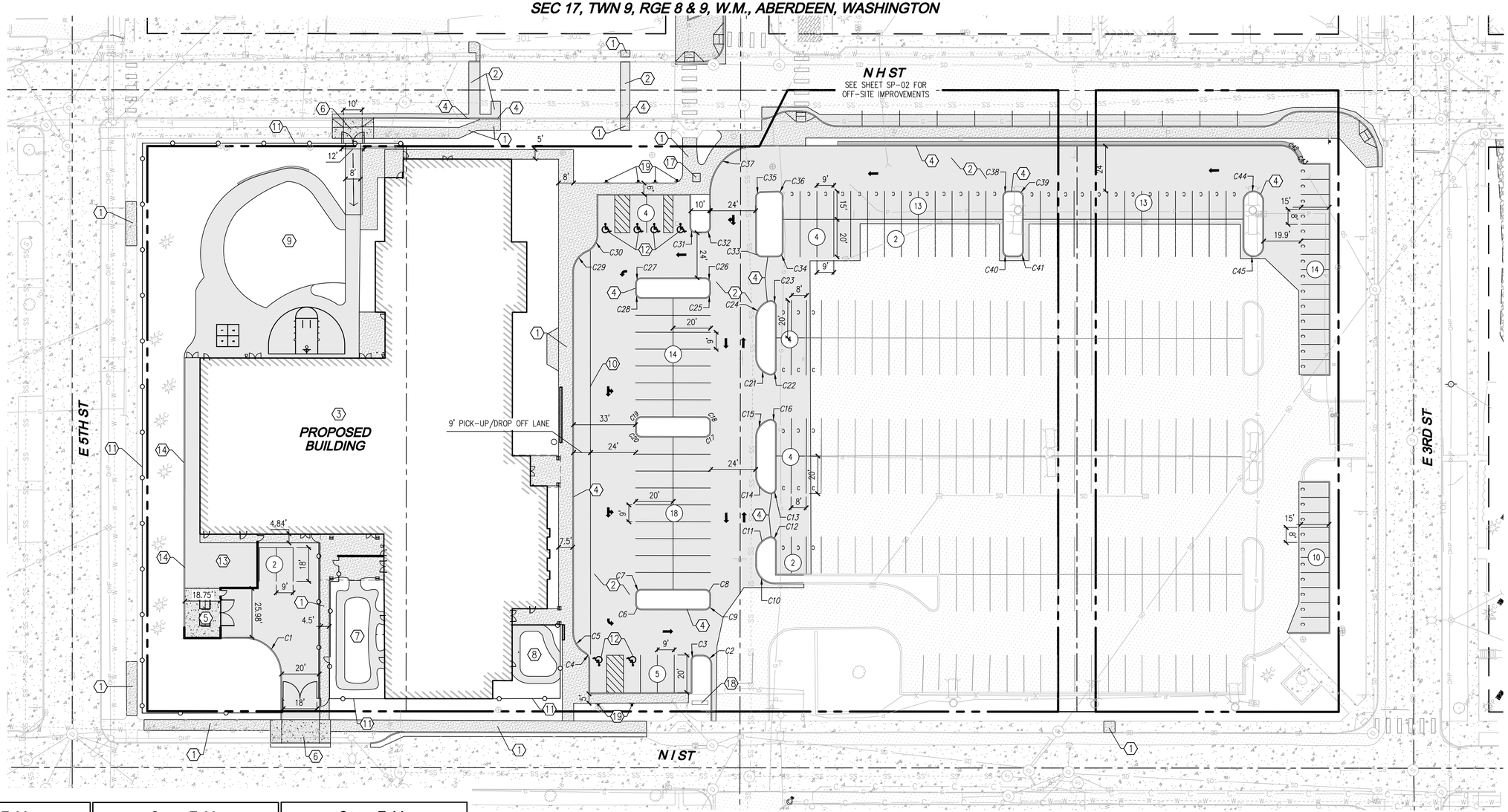
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DRAWING NAME:	C25-161 EC-01
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

EC-01

SHEET 5 OF 10

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SEC 17, TWN 9, RGE 8 & 9, W.M., ABERDEEN, WASHINGTON



Curve Table

Curve #	LENGTH	RADIUS	START	END
C1	31.42'	20.00'	N:617749.83 E:811593.72	N:617777.63 E:811598.89
C2	7.86'	5.00'	N:617564.40 E:811727.64	N:617571.35 E:811728.93
C3	4.71'	3.00'	N:617573.86 E:811727.20	N:617574.63 E:811723.03
C4	5.27'	5.00'	N:617619.21 E:811692.61	N:617623.76 E:811694.76
C5	12.64'	12.00'	N:617623.76 E:811694.76	N:617634.66 E:811699.92
C6	4.71'	3.00'	N:617611.84 E:811730.27	N:617616.01 E:811731.05
C7	4.72'	3.00'	N:617618.84 E:811735.17	N:617618.07 E:811739.34
C8	4.71'	3.00'	N:617590.01 E:811758.57	N:617585.84 E:811757.79
C9	4.71'	3.00'	N:617583.01 E:811753.67	N:617583.79 E:811749.50
C10	15.71'	10.00'	N:617561.19 E:811781.91	N:617575.09 E:811784.51
C11	12.81'	10.00'	N:617578.13 E:811788.95	N:617577.66 E:811800.89
C12	5.58'	3.00'	N:617577.66 E:811800.89	N:617572.85 E:811800.70
C13	5.59'	3.00'	N:617590.81 E:811819.90	N:617589.24 E:811824.45
C14	12.78'	10.00'	N:617602.09 E:811823.77	N:617590.81 E:811819.90
C15	12.86'	10.00'	N:617613.10 E:811852.52	N:617613.60 E:811840.54

Curve Table

Curve #	LENGTH	RADIUS	START	END
C16	5.53'	3.00'	N:617608.32 E:811852.29	N:617613.10 E:811852.52
C17	4.71'	3.00'	N:617635.12 E:811829.49	N:617635.90 E:811825.32
C18	4.71'	3.00'	N:617642.12 E:811834.39	N:617637.95 E:811833.61
C19	4.71'	3.00'	N:617670.96 E:811810.98	N:617670.19 E:811815.15
C20	4.71'	3.00'	N:617863.97 E:811806.08	N:617868.14 E:811806.86
C21	12.81'	10.00'	N:617637.96 E:811875.92	N:617626.65 E:811872.05
C22	5.58'	3.00'	N:617626.65 E:811872.05	N:617625.10 E:811876.60
C23	5.53'	3.00'	N:617644.17 E:811904.44	N:617648.95 E:811904.67
C24	12.86'	10.00'	N:617648.95 E:811904.67	N:617649.46 E:811892.69
C25	4.72'	3.00'	N:617677.83 E:811886.29	N:617677.06 E:811890.46
C26	4.71'	3.00'	N:617679.91 E:811894.61	N:617684.09 E:811895.39
C27	4.71'	3.00'	N:617712.10 E:811876.12	N:617712.87 E:811871.95
C28	4.71'	3.00'	N:617710.05 E:811867.84	N:617705.88 E:811867.07
C29	13.80'	12.00'	N:617743.39 E:811858.08	N:617743.75 E:811871.12
C30	11.50'	10.00'	N:617743.75 E:811871.12	N:617744.05 E:811881.99

Curve Table

Curve #	LENGTH	RADIUS	START	END
C31	4.71'	3.00'	N:617705.94 E:811913.05	N:617701.77 E:811912.28
C32	4.71'	3.00'	N:617697.64 E:811915.11	N:617696.87 E:811919.28
C33	4.71'	3.00'	N:617665.66 E:811921.54	N:617669.83 E:811922.31
C34	4.71'	3.00'	N:617657.73 E:811930.64	N:617658.50 E:811926.46
C35	4.62'	3.00'	N:617686.12 E:811946.00	N:617685.42 E:811950.12
C36	4.81'	3.00'	N:617678.42 E:811955.27	N:617674.17 E:811954.55
C37	39.27'	25.00'	N:617707.17 E:811934.26	N:617700.73 E:811969.03
C38	4.71'	3.00'	N:617577.75 E:812020.82	N:617576.97 E:812024.99
C39	4.71'	3.00'	N:617572.85 E:812027.82	N:617568.68 E:812027.05
C40	4.71'	3.00'	N:617557.14 E:811996.15	N:617561.32 E:811996.92
C41	4.71'	3.00'	N:617552.25 E:812003.16	N:617553.02 E:811998.98
C42	13.19'	10.00'	N:617471.09 E:812126.92	N:617458.85 E:812126.22
C43	3.96'	3.00'	N:617458.85 E:812126.22	N:617455.18 E:812126.00
C44	16.30'	5.53'	N:617471.15 E:812091.71	N:617462.09 E:812097.94
C45	16.30'	5.53'	N:617447.90 E:812077.30	N:617456.96 E:812071.07

CONSTRUCTION NOTES

1. INSTALL CONCRETE SIDEWALK
2. INSTALL ASPHALT PAVEMENT
3. PROPOSED BUILDING, SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION
4. PROPOSED CONCRETE CURB
5. PROPOSED TRASH ENCLOSURE
6. PROPOSED CONCRETE DRIVEWAY TYPE 1 PER WSDOT STD. PLAN F80.10-04
7. PROPOSED TODDLER PLAY AREA
8. PROPOSED PRESCHOOL PLAY AREA
9. PROPOSED PLAY FIELD
10. PROPOSED PICK-UP/DROP OFF LANE
11. PROPOSED CHAIN LINK FENCE, SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION
12. PROPOSED ADA PARKING
13. PROPOSED SERVICE YARD
14. PROPOSED WALL, SEE SHEET CG-01 FOR ADDITIONAL INFORMATION
15. PROPOSED PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-04
16. REINSTALL EXISTING STOP SIGN BEHIND PROPOSED SIDEWALK
17. RELOCATE EXISTING STATUE
18. PROPOSED MONUMENT SIGN
19. PROPOSED ADA SIGN AND POST

NEW PARKING COUNTS

ON-SITE:

STANDARD (9'x20' TYP.)	43
COMPACT (8'x15' TYP.)	60
ADA (9'x20' TYP.)	6
TOTAL:	109

OFF-SITE:

E 4TH ST:	
STANDARD (9'x20' TYP.)	27
ABERDEEN SCHOOL DISTRICT PARKING LOT:	
STANDARD (9'x20' TYP.)	6
N H ST:	
PARALLEL (8'x20' TYP.)	12
TOTAL:	45
TOTAL NEW PARKING (ON & OFF SITE):	154
EXISTING PARKING ON-SITE:	188

SCALE: 1" = 30'

30' 0 30' 60'

LEGEND

- RIGHT OF WAY
- R.O.W. CENTER LINE
- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED CEMENT CONCRETE SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE CURB
- (XX) NEW PARKING STALL COUNT

UTILITY NOTE

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DISCLAIMER

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321 Cleveland Ave SE, #209
Tumwater, WA 98501
T 425.806.1869 | www.LDCcorp.com | F 425.482.2893

ABERDEEN SCHOOL DISTRICT

HARBOR LEARNING CENTER

ON-SITE SITE IMPROVEMENT PLAN

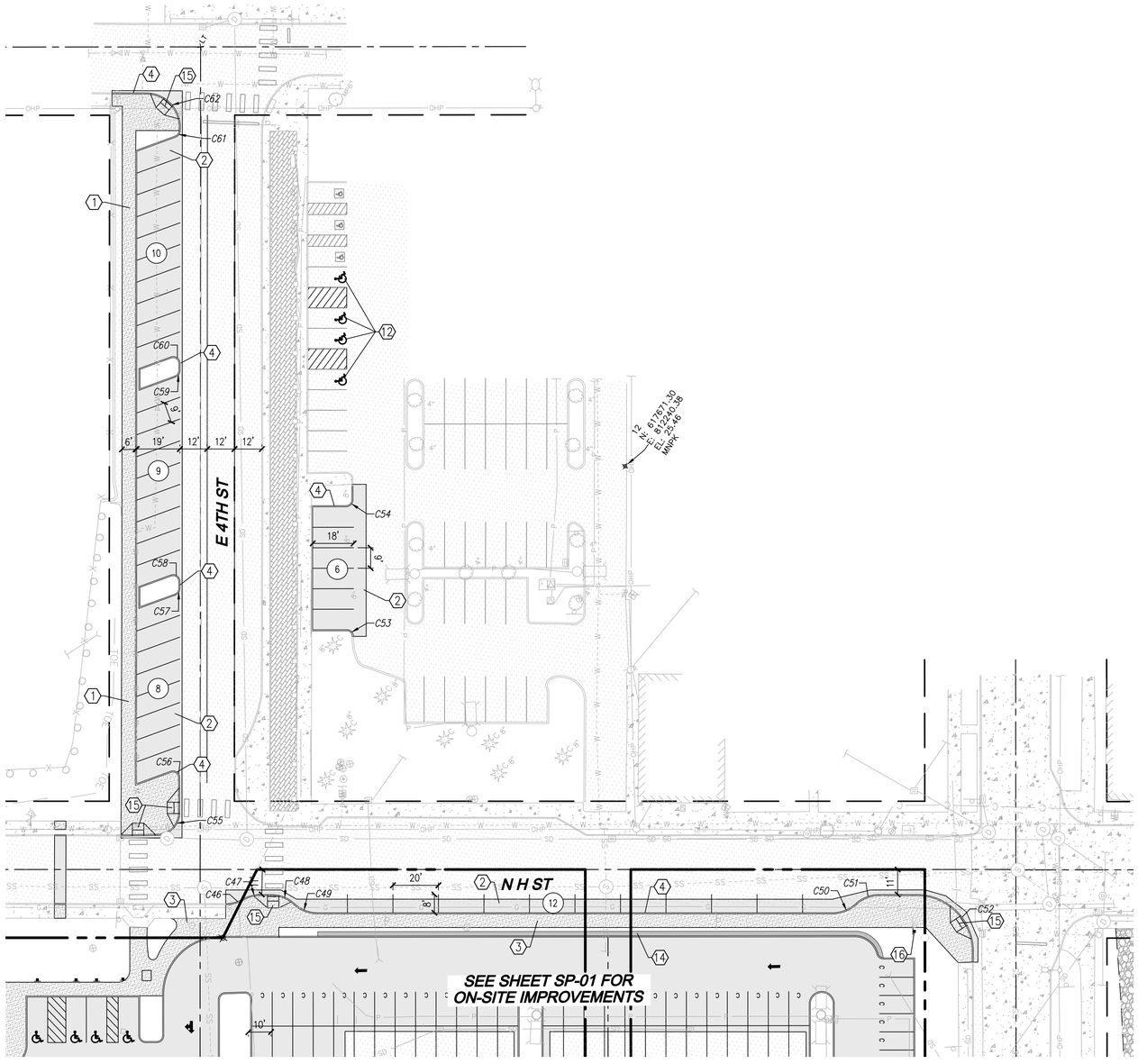
ROSS D. JARVIS — STATE OF WASHINGTON — 43668 — REGISTERED PROFESSIONAL ENGINEER — XX-XX-26

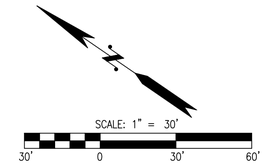
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DRAWING NAME:	C25-161 SP-01
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

SP-01

SHEET 6 OF 10

Drawing: P:\C&W\2025\C25-161 Aberdeen SD - Harbor Learning Center\Drawings\Construction\C25-161 SP-01.dwg Plotted: Aug 08, 2025 - 9:12am





LEGEND

- RIGHT OF WAY
- R.O.W. CENTER LINE
- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED CEMENT CONCRETE SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE CURB
- (XX) NEW PARKING STALL COUNT

Curve Table

Curve #	LENGTH	RADIUS	START	END
C46	7.86'	15.00'	N: 617702.20 E: 811988.46	N: 617707.27 E: 811982.58
C47	7.88'	15.00'	N: 617697.14 E: 811994.39	N: 617702.20 E: 811988.46
C48	11.21'	15.00'	N: 617693.02 E: 811997.21	N: 617682.34 E: 811999.69
C49	11.21'	15.00'	N: 617682.34 E: 811999.69	N: 617671.67 E: 812002.16
C50	11.21'	15.00'	N: 617485.13 E: 812130.15	N: 617478.99 E: 812139.21
C51	11.19'	15.00'	N: 617472.85 E: 812148.27	N: 617478.99 E: 812139.21
C52	39.25'	25.00'	N: 617424.49 E: 812151.17	N: 617459.24 E: 812157.62
C53	4.69'	3.00'	N: 617731.53 E: 812111.95	N: 617727.37 E: 812111.20
C54	4.71'	3.00'	N: 617761.51 E: 812160.51	N: 617762.28 E: 812156.34
C55	15.71'	10.00'	N: 617749.12 E: 811990.17	N: 617746.52 E: 812004.07
C56	5.76'	3.00'	N: 617755.23 E: 812016.79	N: 617760.15 E: 812016.84
C57	3.66'	3.00'	N: 617802.20 E: 812081.88	N: 617802.17 E: 812085.32
C58	5.77'	3.00'	N: 617803.97 E: 812087.96	N: 617808.89 E: 812088.00
C59	3.66'	3.00'	N: 617856.39 E: 812160.91	N: 617856.36 E: 812164.34
C60	5.76'	3.00'	N: 617858.16 E: 812166.98	N: 617863.08 E: 812167.02
C61	3.26'	3.00'	N: 617915.98 E: 812247.86	N: 617915.74 E: 812250.95
C62	25.50'	15.00'	N: 617915.74 E: 812250.95	N: 617937.56 E: 812256.62

CONSTRUCTION NOTES

1. INSTALL CONCRETE SIDEWALK
2. INSTALL ASPHALT PAVEMENT
3. PROPOSED BUILDING, SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION
4. PROPOSED CONCRETE CURB
5. PROPOSED TRASH ENCLOSURE
6. PROPOSED CONCRETE DRIVEWAY TYPE 1 PER WSDOT STD. PLAN F80.10-04
7. PROPOSED TODDLER PLAY AREA
8. PROPOSED PRESCHOOL PLAY AREA
9. PROPOSED PLAY FIELD
10. PROPOSED PICK-UP/DROP OFF LANE
11. PROPOSED CHAIN LINK FENCE, SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION
12. PROPOSED ADA PARKING
13. PROPOSED SERVICE YARD
14. PROPOSED WALL, SEE SHEET CG-01 FOR ADDITIONAL INFORMATION
15. PROPOSED PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-04
16. REINSTALL EXISTING STOP SIGN BEHIND PROPOSED SIDEWALK
17. RELOCATE EXISTING STATUE
18. PROPOSED MONUMENT SIGN
19. PROPOSED ADA SIGN AND POST

NEW PARKING COUNTS

ON-SITE:	
STANDARD (9'x20' TYP.)	43
COMPACT (8'x15' TYP.)	60
ADA (9'x20' TYP.)	6
TOTAL:	109
OFF-SITE:	
E 4TH ST:	
STANDARD (9'x20' TYP.)	27
ABERDEEN SCHOOL DISTRICT PARKING LOT:	
STANDARD (9'x20' TYP.)	6
N H ST:	
PARALLEL (8'x20' TYP.)	12
TOTAL:	45
TOTAL NEW PARKING (ON & OFF SITE):	154
EXISTING PARKING ON-SITE:	188

UTILITY NOTE

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

DISCLAIMER

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ABERDEEN SCHOOL DISTRICT

HARBOR LEARNING CENTER

FRONTAGE IMPROVEMENT PLAN

ROSS D. JARVIS — STATE OF WASHINGTON — 43668 — REGISTERED PROFESSIONAL ENGINEER — 10-24-25

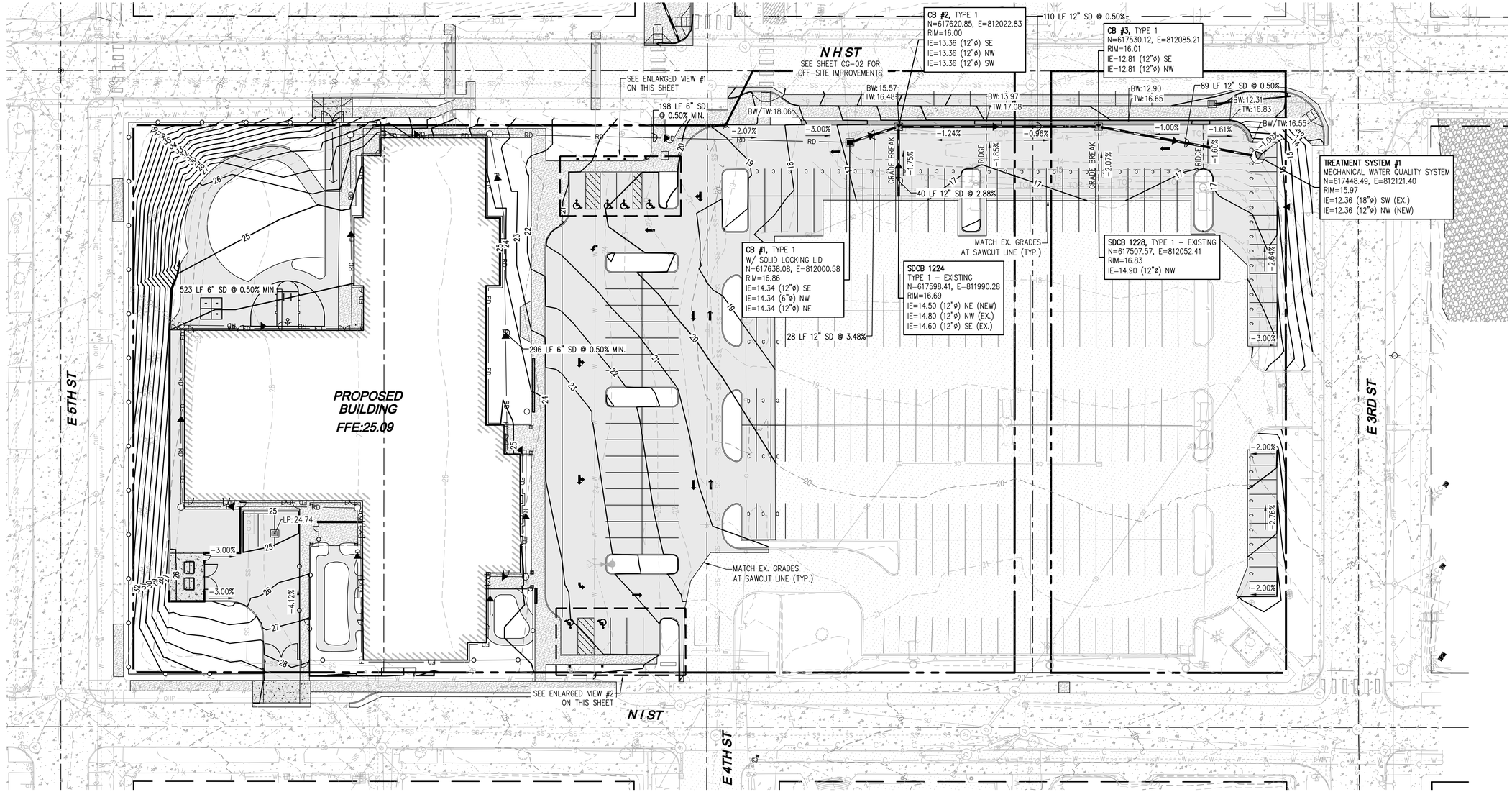
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DRAWING NAME:	C25-161 SP-02
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

SP-02

SHEET 7 OF 10

Drawing: P:\Civil\2025\C25-161 Aberdeen SD - Harbor Learning Center\Drawings\Construction\C25-161 SP-02.dwg Plotted: Aug 08, 2025 - 9:12am

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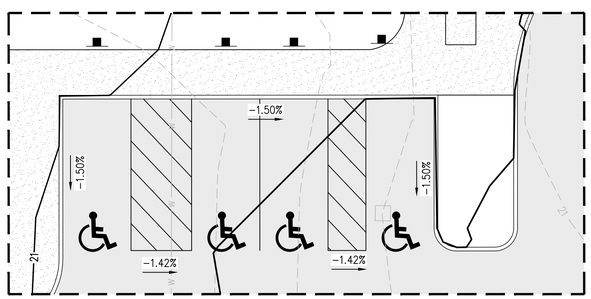


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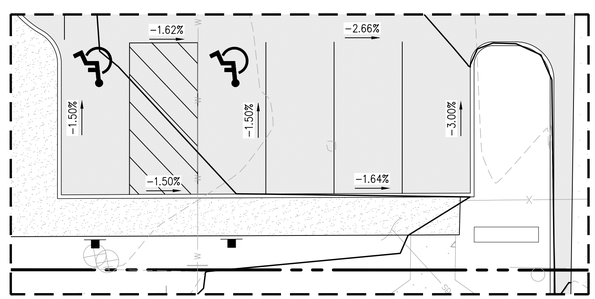
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM DRAIN CLEANOUT
- TYPE 1 CATCH BASIN
- ASTM D3034 SDR35 PVC STORM PIPE, UNLESS OTHERWISE NOTED
- RD — ASTM D3034 SDR35 PVC DRAIN LINE
- FD — FOOTING DRAIN LINE
- GRADE BREAK

SCALE: 1" = 30'

30' 0 30' 60'



ENLARGED VIEW #1
SCALE: 1" = 10'



ENLARGED VIEW #2
SCALE: 1" = 10'

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ABERDEEN SCHOOL DISTRICT

HARBOR LEARNING CENTER

ON-SITE GRADING AND DRAINAGE PLAN

ROSS D. JARVIS — STATE OF WASHINGTON — 45668 — REGISTERED PROFESSIONAL ENGINEER — 10-24-25

JOB NUMBER:	C25-161
DRAWING NAME:	C25-161 CG-01
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

CG-01

SHEET 8 OF 10

Drawing: P:\Civil\2025\C25-161 Aberdeen SD - Harbor Learning Center\Drawings\Construction\C25-161 CG-01.dwg Plotted: Aug 08, 2025 - 9:12am

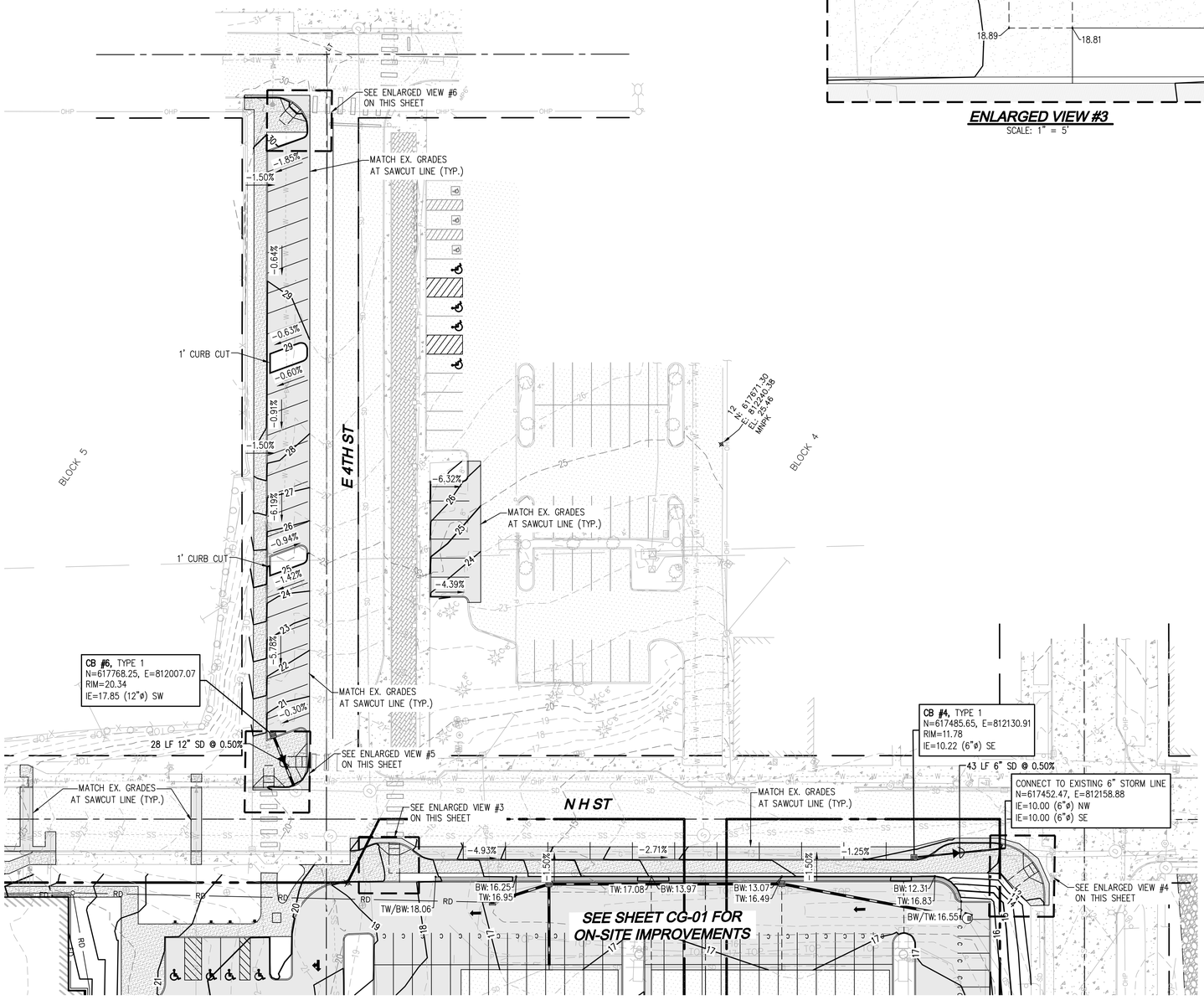
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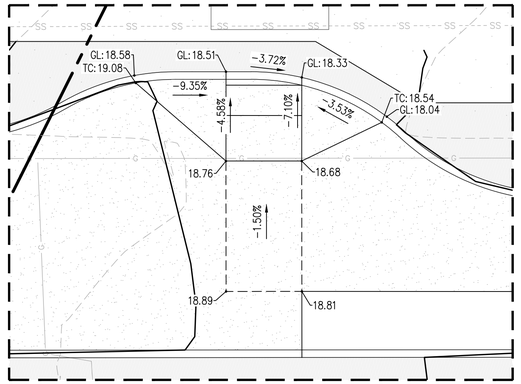
SCALE: 1" = 30'

30' 0 30' 60'

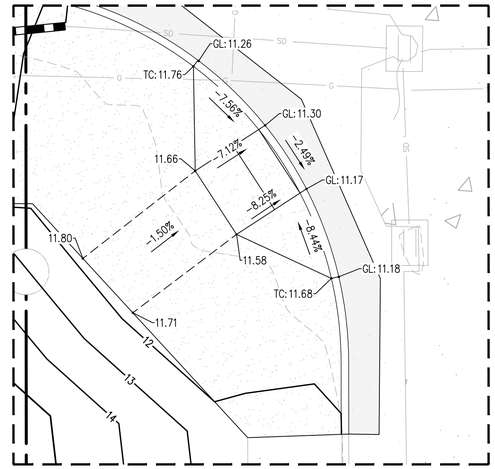
LEGEND

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- PROPOSED CONTOURS
- PROPOSED STORM DRAIN CLEANOUT
- TYPE 1 CATCH BASIN
- ASTM D3034 SDR35 PVC STORM PIPE, UNLESS OTHERWISE NOTED
- RD — ASTM D3034 SDR35 PVC DRAIN LINE
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- GRADE BREAK

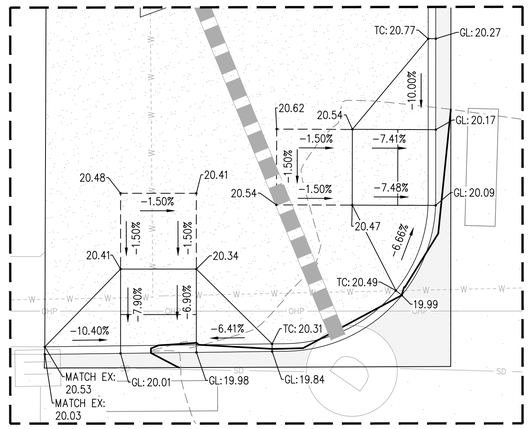




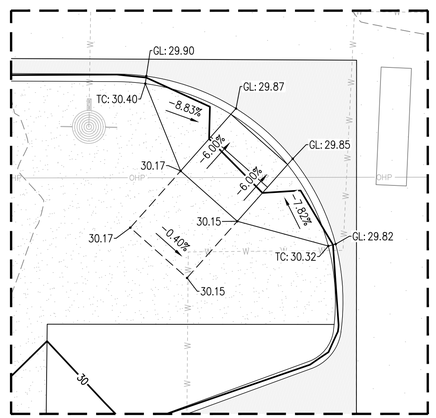
ENLARGED VIEW #3
SCALE: 1" = 5'



ENLARGED VIEW #4
SCALE: 1" = 5'



ENLARGED VIEW #5
SCALE: 1" = 5'



ENLARGED VIEW #6
SCALE: 1" = 5'

UTILITY NOTE

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ABERDEEN SCHOOL DISTRICT

HARBOR LEARNING CENTER

FRONTAGE GRADING AND DRAINAGE PLAN

ROSS D. JARVIS — STATE OF WASHINGTON — 43960 — REGISTERED PROFESSIONAL ENGINEER — XX-XX-25

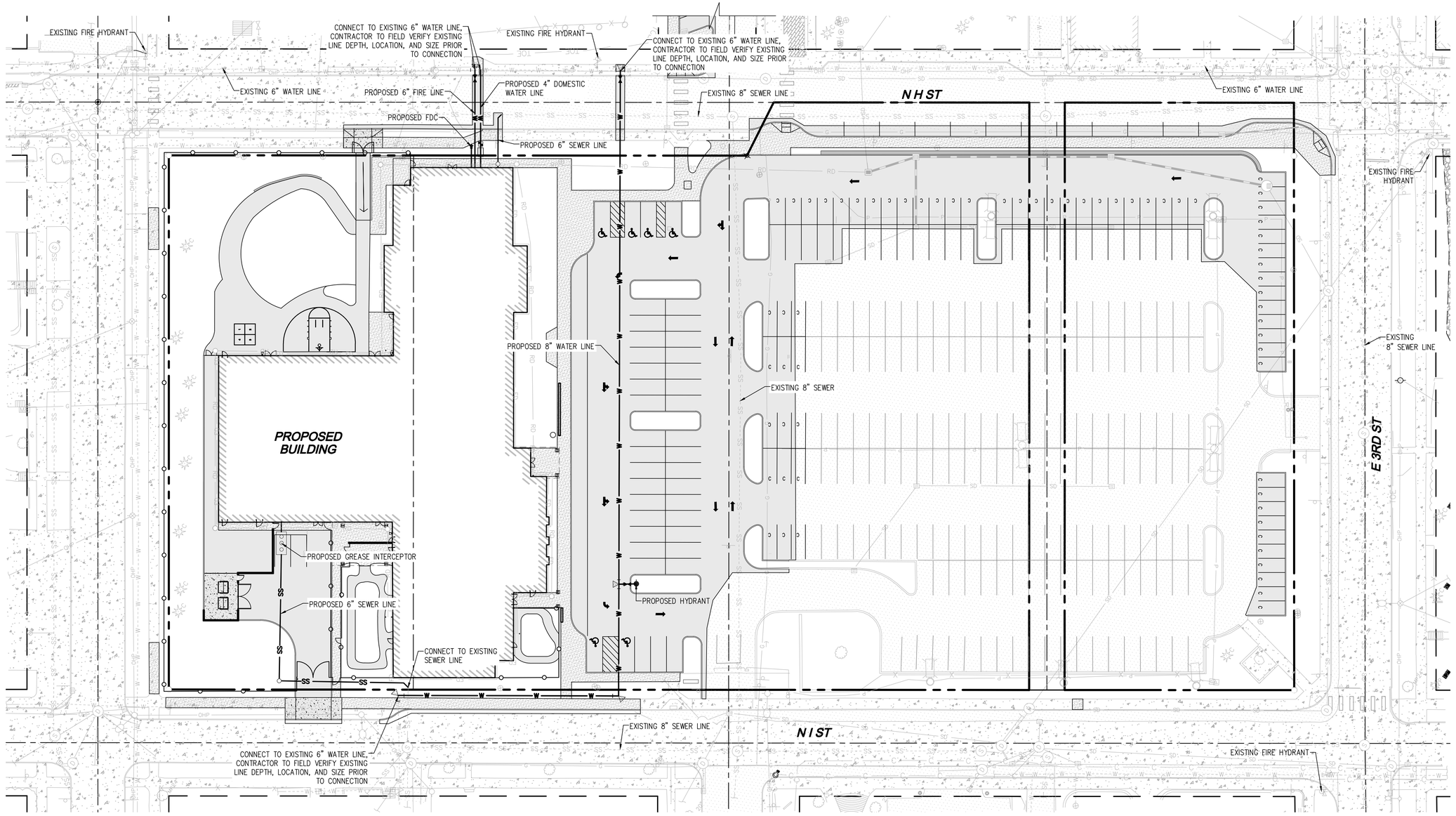
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DRAWING NAME:	C25-161 CG-02
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

CG-02

SHEET 9 OF 10

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LEGEND

- PROPOSED AWWA C900 PVC DR14 WATER LINE
- EXISTING WATER LINE
- EXISTING HYDRANT
- PROPOSED METER
- PROPOSED ASTM D 3034 SDR 35 PVC SANITARY SEWER PIPE
- EXISTING SEWER LINE
- EXISTING CLEANOUT
- PROPOSED SANITARY SEWER CLEANOUT

UTILITY NOTE

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WATER AND SANITARY SEWER PLAN

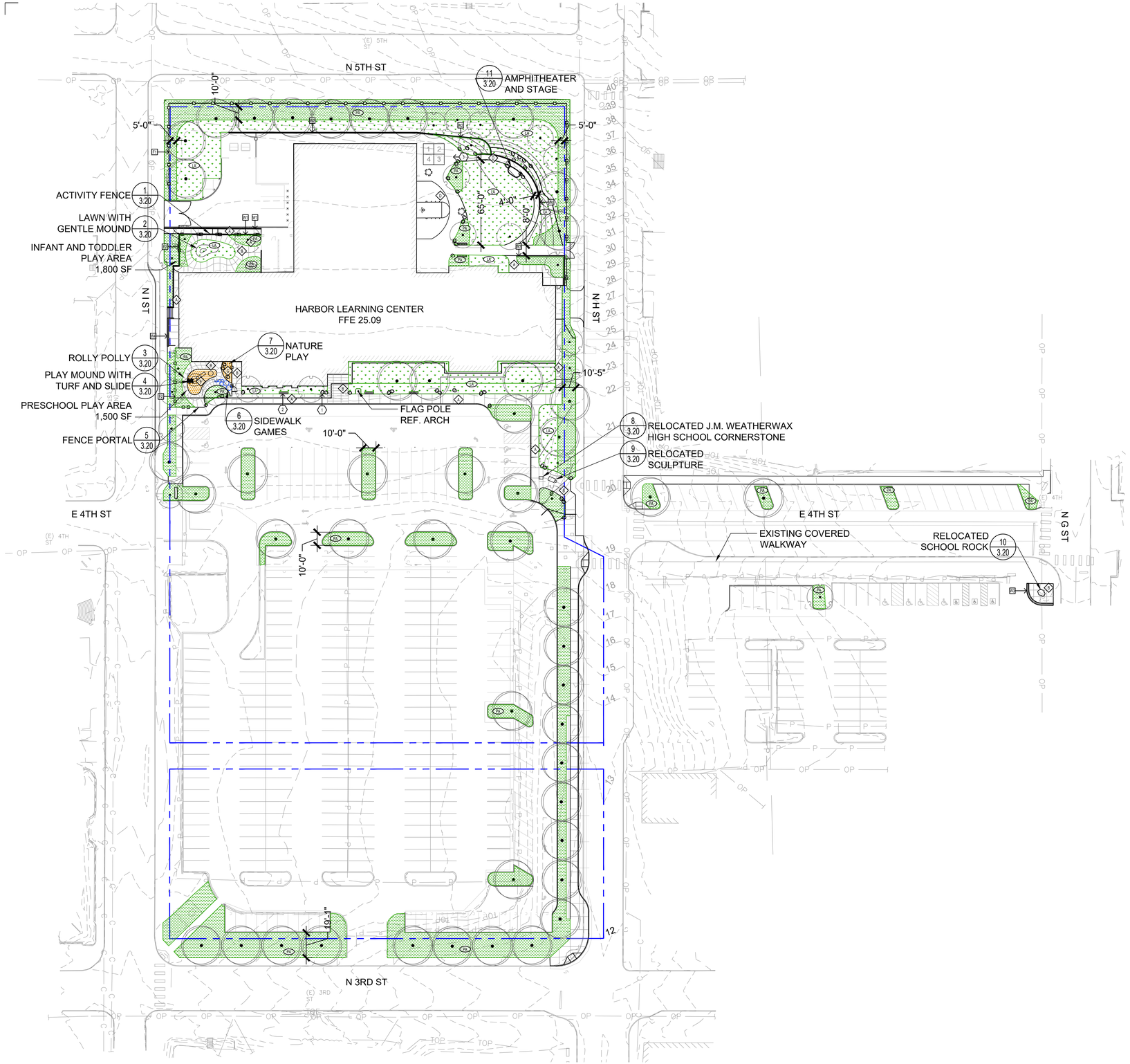
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DRAWING NAME:	C25-161 UT-01
DESIGNER:	RJ
DRAFTING BY:	ES
DATE:	AUGUST 2025
SCALE:	AS NOTED
JURISDICTION:	

UT-01

SHEET 10 OF 10

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1 OVERALL LANDSCAPE SITE PLAN

SCALE: 1" = 40'

SCHEDULE

SYMBOL

- TYPE 1 C.I.P.CONCRETE PAVING - Medium broom finish, sawcut joints at courtyards and plazas, tooled joints at sidewalks, no shiners).
- TYPE 2 CIP CONCRETE PAVING - Exposed aggregate finish, sawcut jointing, no shiners).
- ASPHALT PAVING - Ref civil.
- CRUSHED ROCK PAVING - 1/4" minus top course (2" depth), 5/8" minus base course (4" depth).
- PEDESTRIAN ASPHALT PAVING
- SYNTHETIC TURF - Safety play surfacing.
- NATURE PLAY - 4" depth engineered wood fiber.
- PLANTING AREA - 9" depth bioretention soil, 1 gal shrubs, 1 gal. groundcover, 4" pot herbaceous.
- LAWN - 8" depth bioretention, proof roll, seed.
- PROPOSED TREE - Deciduous / broadleaf trees: 1.5" caliper. Conifers: 6" HT. Each tree location shall be decompacted to 18" depth, three times the width of the root ball, amend with 2" bioretention soil, 3" arborist wood chip mulch around each tree to 3' radius.
- 6" CIP CONCRETE WALL - ref civil.
- 8" CIP CONCRETE WALL - ref civil.
- 12" CIP CONCRETE WALL - ref civil.
- 18" CIP CONCRETE WALL - ref civil.
- BOULDER - 50% 1-ton and 50% 2-ton igneous rock.
- BENCH - TimberForm Colossus
- PICNIC TABLE - TimberForm Parkway Integral Table and Seats
- 4' HT CHAIN LINK FENCE - Black vinyl coated.
- 6' HT CHAIN LINK FENCE - Black vinyl coated.
- PROPERTY LINE

IRRIGATION:

AUTOMATED PERMANENT TWO-WIRE IRRIGATION WITH RAIN SENSOR AND FLOW METER FOR ALL PLANTING AREAS AND LAWN AREAS. PROVIDE HEAD-TO-HEAD UNIFORM COVERAGE WITH POP-UP ROTARY SPRAY HEADS. ALL NEW TREES TO BE ON DEDICATED ZONES.

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P.253.572.3993

Client

ABERDEEN SD #5

Project

HARBOR LEARNING CENTER

2012-009
Harbor Learning Center

510 N I ST, Aberdeen

Issue & Revision Dates

12 AUGUST 2025 95% SD
24 SEPTEMBER 2025 100% SD

100% Schematic Design

Not for Construction

Keyplan

Drawn By LV,AR
Checked By CB

Sheet Title

OVERALL LANDSCAPE SITE PLAN

L1.00

Sheet Number Of

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1 ACTIVITY FENCE
SCALE: NTS



1 LAWN WITH GENTLE MOUND
SCALE: NTS



1 ROLLY POLLY
SCALE: NTS



4 PLAY MOUND W/ TURF AND SLIDE
SCALE: NTS



5 FENCE PORTAL
SCALE: NTS



6 SIDEWALK GAMES
SCALE: NTS



7 NATURE PLAY
SCALE: NTS



8 RELOCATED CORNERSTONE
SCALE: NTS



9 RELOCATED BRONZE SCULPTURE
SCALE: NTS



10 RELOCATED SCHOOL ROCK
SCALE: NTS



1 AMPHITHEATER AND STAGE
SCALE: NTS

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ABERDEEN SD #5

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PRECEDENT IMAGES

L3.20

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1 SITE REFERENCE PLAN

1" = 40'-0"

NORTH

GENERAL NOTES

1. SEE CIVIL DEMO PLANS AND SURFACING PLANS FOR CONTRACTOR'S SURFACING SCOPE OF WORK.

2. SURFACE PAVING SCOPE, SITE UTILITIES, SITE LIGHTING TYPE AND LOCATIONS, LANDSCAPE PLANTINGS SCHEMES ARE SHOWN ON THE ARCHITECTURAL SITE PLAN AND ENLARGED SITE PLANS FOR REFERENCE ONLY - SEE APPLICABLE DESIGN DISCIPLINE FOR EACH - CIVIL, ELECTRICAL AND LANDSCAPE SHEETS FOR THE ABOVE NAMED SCOPES OF WORK ON SITE.

SITE PLAN LEGEND

- PROPERTY LINE
- AREA OF PAVING TO BE DEMOLISHED
- BUILDING AREA
- PROPOSED TURF / LANDSCAPE AREA, SEE LANDSCAPE DRAWINGS
- EXISTING TURF / LANDSCAPE AREA - NO WORK, SEE LANDSCAPE DRAWINGS
- PROPOSED ASPHALT PAVING AREA OR REPLACED ASPHALT PAVING, SEE CIVIL DRAWINGS
- EXISTING ASPHALT PAVING TO REMAIN, NO WORK, SEE CIVIL DRAWINGS
- PROPOSED CONCRETE PAVING AREA OR REPLACED CONCRETE PAVING, SEE CIVIL DRAWINGS
- EXISTING CONCRETRE PAVING TO REMAIN, NO WORK, SEE CIVIL DRAWINGS
- SOFT PLAY SURFACE, SEE LANDSCAPE DRAWINGS
- EXISTING BRICK PAVERS

PARKING CALCULATIONS

PARKING REQUIREMENTS
MIN. (1) SPACE PER 300 FT

BARRIER-FREE PARKING REQUIREMENTS
MIN. (6) SPACES

PARKING	MIN. REQ.	PROVIDED
STANDARD	142	85
COMPACT		65
BARRIER-FREE	6 (+4 EXISTING)	10
TOTAL	154	154
AUTHORIZED ONLY	N/A	2

KEYNOTES

S1	6' CHAIN LINK FENCE, VINYL COATED
S2	4' CHAIN LINK FENCE, VINYL COATED
S3	VEHICLE GATE
S10	12' HEIGHT CONCRETE RETAINING WALL
S15	RELOCATED CLASS BOULDER ON 14'X14' CONCRETE BASE
S16	FLAG POLE
S17	EXISTING CHAIN LINK FENCING TO REMAIN
S18	MONUMENT SIGN
S19	INFILL LOCATION OF EXISTING CLASS BOULDER WITH LANDSCAPING
S20	EXISTING BRICK PAVERS, PREASURE WASH
S21	RELOCATED EXISTING SCULPTURE
S25	BLOCK RETAINING WALL, SEE CIVIL

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Client
ABERDEEN SD #5

Project
HARBOR LEARNING CENTER

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HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates
12 AUGUST 2025 95% SD

100% Schematic Design
Not for Construction

NOTE: DRAWING MAY BE REDUCED
0 20' 40' 80'

Drawn By Author
Checked By Checker

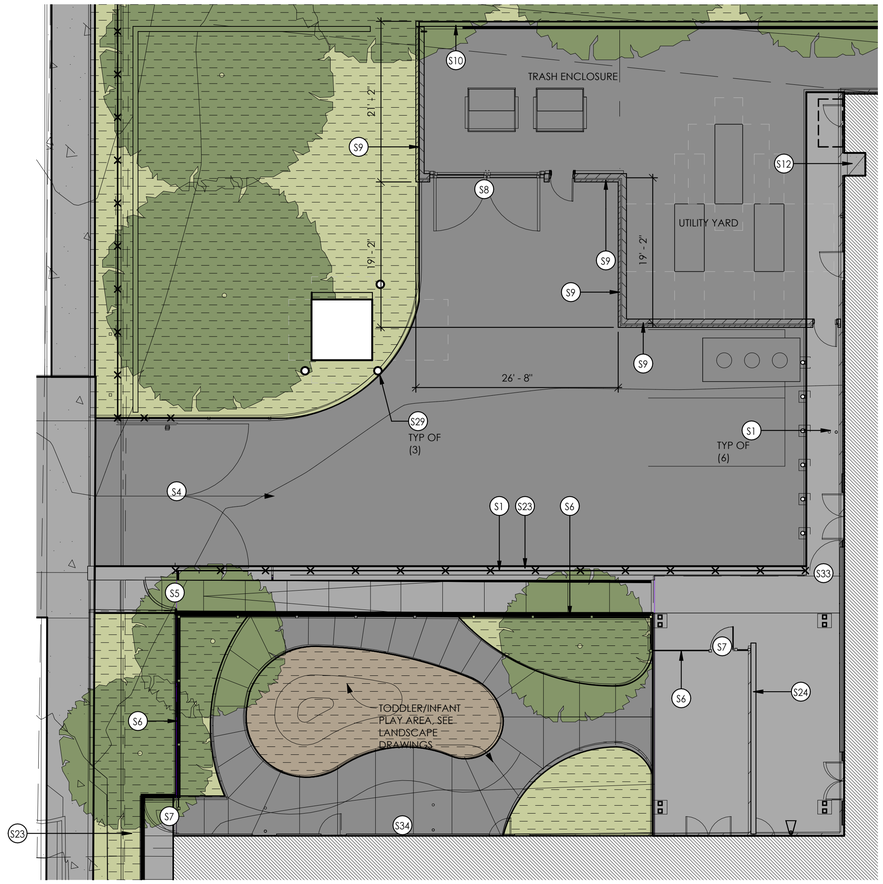
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SITE PLAN

A1.01

Sheet Number Of

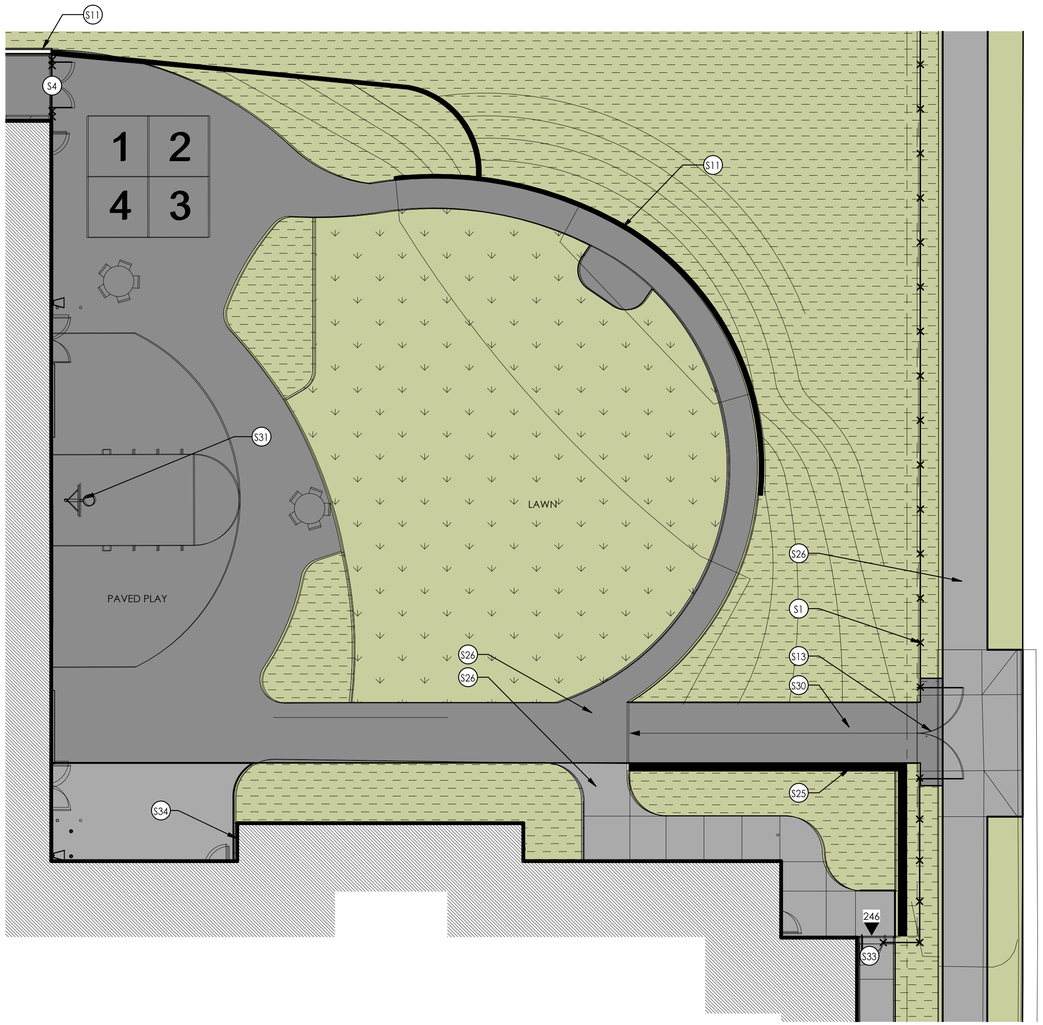
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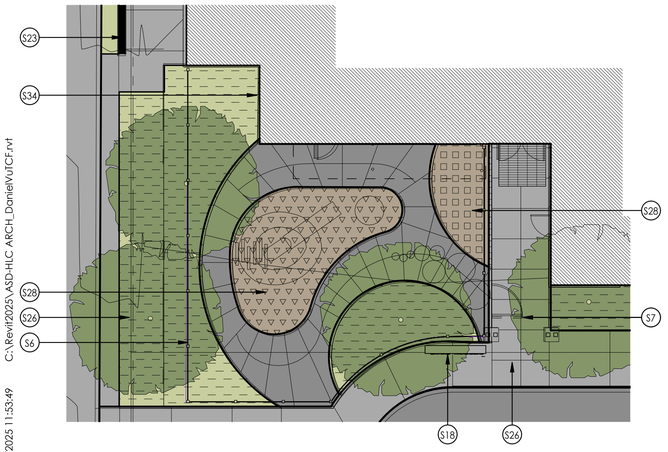
1 ENLARGED SITE PLAN - UTILITY YARD
1" = 10'-0"

NORTH



2 ENLARGED SITE PLAN - PAVED PLAY
1" = 10'-0"

NORTH



3 ENLARGED SITE PLAN - PRE-K PLAY
1" = 10'-0"

NORTH

GENERAL NOTES

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- EXISTING TURF / LANDSCAPE AREA - NO WORK, SEE LANDSCAPE DRAWINGS
- PROPOSED ASPHALT PAVING AREA OR REPLACED ASPHALT PAVING, SEE CIVIL DRAWINGS
- EXISTING ASPHALT PAVING TO REMAIN, NO WORK, SEE CIVIL DRAWINGS
- PROPOSED CONCRETE PAVING AREA OR REPLACED CONCRETE PAVING, SEE CIVIL DRAWINGS
- EXISTING CONCRETRE PAVING TO REMAIN, NO WORK, SEE CIVIL DRAWINGS
- SOFT PLAY SURFACE, SEE LANDSCAPE DRAWINGS
- EXISTING BRICK PAVERS

KEYNOTES

S1	6' CHAIN LINK FENCE, VINYL COATED
S4	6' HEIGHT CHAIN LINK VEHICLE GATE, VINYL COATED
S5	4' WIDTH X 4' HEIGHT CHAINLINK ACCESS GATE, VINYL COATED WITH EGRESS HARDWARE
S6	4' HEIGHT DECORATIVE METAL FENCING
S7	4' HEIGHT X 3'-6" WIDTH DECORATIVE METAL GATE WITH EGRESS HARDWARE
S8	14' WIDTH X 8' HEIGHT CUSTOM FABRICATED STEEL SERVICE YARD GATE, PAINTED
S9	10' HEIGHT CMU SERVICE YARD WALL WITH BRICK VENEER
S10	12' HEIGHT CONCRETE RETAINING WALL
S11	4' HEIGHT CONCRETE RETAINING WALL
S12	CAN WASH AREA WITH DRAIN AND HOT AND COLD WATER
S13	12' WIDTH CHAIN LINK GATE, VINYL COATED FOR MAINTENANCE ACCESS
S18	MONUMENT SIGN
S23	3' HEIGHT X 14" WIDTH CONCRETE SEATING WALL
S24	10' HEIGHT CONCRETE AND BRICK VENEER ACCENT WALL, SEE WALL TYPE BM/BV
S25	BLOCK RETAINING WALL, SEE CIVIL
S26	CONCRETE SIDEWALK, PAVING, SEE CIVIL
S28	SOFT SURFACE PLAY AREA, SEE LANDSCAPE
S29	SURFACE-MOUNTED STEEL BOLLARD, SEE LANDSCAPE
S30	MAINTENANCE VEHICLE ACCESS RAMP
S31	OUTDOOR BASKETBALL HAFT-COURT
S33	6' HEIGHT X 3'-6" WIDTH CHAINLINK ACCESS GATE, VINYL COATED WITH EGRESS HARDWARE
S34	WALL-MOUNTED FROSTPROOF HOSE BIBB WITH VACUUM BREAKER, CONNECTED TO DOMESTIC COLD WATER SUPPLY

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Sheet Title
ENLARGED SITE PLAN

A1.10

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GENERAL NOTES

A. SEE GENERAL NOTES ON SHEET G2.01 FOR ADDITIONAL INFORMATION.

B. DIMENSIONING: REFER TO SITE PLANS, DIMENSION PLANS, FLOOR PATTERN PLANS, REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, INTERIOR ELEVATIONS, ENLARGED FLOOR PLANS, AND DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION.

EXTERIOR WALLS: ALL DIMENSIONS TO EXTERIOR WALLS ARE TO FACE OF STUD OR EXTERIOR FACE OF MASONRY VENEER, OR CENTERLINE OF COLUMNS U.N.O.

INTERIOR WALLS: ALL DIMENSIONS TO INTERIOR STEEL STUD WALLS ARE TO FACE OF STUD, CENTER OF OPENING OR CENTERLINE OF STEEL COLUMNS, U.N.O.

ABBREVIATIONS:
FOB - FACE OF BRICK
FOC - FACE OF CONCRETE
FOM - FACE OF MASONRY VENEER
FOS - FACE OF STUD
C/L COL - CENTERLINE OF COLUMN
C/L STUD - CENTERLINE OF STUD
C/L FIX - CENTERLINE OF FIXTURE

DOORS: AT DOORS WITHOUT LOCATION DIMENSIONS LOCATE HINGE JAMB PER DIAGRAM IN FLOOR PLAN LEGEND.

MASONRY DIMENSIONS: OVERALL BUILDING PLAN DIMENSIONS AND OPENING DIMENSIONS ARE PRIMARILY BASED UPON ACTUAL MASONRY DIMENSIONS. THE CONTRACTOR MUST CAREFULLY COORDINATE OPENING SIZES AND LOCATIONS AND COORDINATE PLACEMENT OF COORDINATING ITEMS SUCH AS MASONRY PENETRATIONS BY STEEL ITEMS REQUIRING COORDINATION WITH MASONRY JOINTS AND MODULES. MASONRY CUTTING WILL BE REQUIRED AT SOME LOCATIONS BUT THE INTENT OF THE DOCUMENTS IS TO MINIMIZE CUTTING THROUGH CAREFUL COORDINATION BY THE CONTRACTOR.

C. WALL LAYOUT: WALLS ARE TYPICALLY 90 DEGREES FROM A HORIZONTAL PLANE, U.N.O.

D. VERTICAL HEIGHTS ON ARCHITECTURAL DRAWINGS: TOP OF CONCRETE FLOOR SLAB, IS GENERALLY REFERENCED AS ELEVATION 0' - 0" FOR THE MAIN FLOOR LEVEL. ALL OTHER VERTICAL DIMENSION REFERENCE POINTS ABOVE (+) OR BELOW (-) 0' - 0": SEE CIVIL DRAWINGS FOR ACTUAL BUILDING TOP OF SLAB BASE ELEVATION

E. FLOOR SLOPES: AT ROOMS W/ FLOORS SHOWN SLOPED TO DRAIN DO NOT REDUCE SLAB THICKNESS OF SLAB ON GRADE. ONLY MINOR ADJUSTMENTS SHALL BE MADE W/TILE GROUT BASE. UNLESS DIMENSIONED OTHERWISE, FLOOR DRAINS ARE LOCATED AT CENTER OF ROOMS. SEE GENERAL NOTES ON A2.03c FOR FLOOR SLOPE GENERAL NOTES. SEE DETAIL

F. SEE THE A8 SHEETS FOR INTERIOR ELEVATIONS, INTERIOR ELEVATIONS ARE REFERENCED IN EACH ROOM WITH A SYMBOL INDICATING THE WALL ELEVATED AND THE SHEET NUMBER OF THE ELEVATION (SEE LEGEND ON G2.01)

G. SEE INTERIOR ELEVATIONS FOR WALL MOUNTED ITEMS

H. ALL HANDICAP ACCESSIBLE TOILETS AND URINALS SHALL MEET CURRENT STATE RULES AND REGULATIONS FOR BARRIER-FREE DESIGN.

J. SEE SHEET G2.01 FOR SYMBOLS, ABBREVIATIONS, SEE SHEET G2.02 TYPICAL MOUNTING HEIGHTS, SEE SHEET A70.01 FOR FINISH SCHEDULE, SEE DETAIL SHEETS FOR SCHEDULES, DETAILS AND ADDITIONAL NOTES.

K. UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS FOR FLOORING REDUCERS, WHERE DIFFERING MATERIALS MEET. PROVIDE APPROPRIATE REDUCER AT ALL TRANSITIONS AS APPROVED WHETHER DETAILED OR NOT. SEE A21 SERIES FOR FLOOR & BASE DETAILS.

L. REFER TO SHEETS SERIES A30 AND A31 FOR WALL TYPES AND GENERAL NOTES TO WALL TYPES, BUILDING & WALL SECTIONS.

M. PROVIDE CONTINUATION OF 1-HR OR 2-HR WALL BARRIER BEHIND ALL RECESSED EQUIPMENT, SUCH AS FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC. BY RUNNING GWB BACK AND BEHIND. PROVIDE ADDITIONAL BLOCKING AND BACKING AS REQUIRED.

N. THERMAL AND SOUND INSULATION IS INTENDED TO PROVIDE A CONTINUOUS ENVELOPE AS INDICATED.

P. IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE DOCUMENTS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION, PROCEEDING WITHOUT SUCH CLARIFICATION IS AT THE CONTRACTORS RISK & COST.

Q. THE GENERAL CONTRACTOR SHALL COORDINATE ALL DOWNSPOUT LOCATIONS AND CONNECTIONS TO TIGHTLINES AND STORM DRAINAGE SYSTEM(S), THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS ILLUSTRATE AND DIMENSION DOWNSPOUT LOCATIONS AND WILL TAKE PRECEDENCE WHEN INSTALLING ALL ASSOCIATED WORK, ALSO SEE CIVIL DRAWING AND SPECIFICATIONS

R. VAPOR BARRIER: CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER MEMBRANE AT FLOOR SLAB. BACKER ROD, SEALANT, AND OTHER APPROVED MEANS SHALL BE APPLIED CONTINUOUSLY AROUND ALL EXTERIOR DOOR AND WINDOW OPENINGS AND OTHER AREAS OF POTENTIAL AIR INFILTRATION, INCLUDING STRUCTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS, THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO VAPOR BARRIERS, OR REPLACE THEM PRIOR TO COVER, AS APPROVED. CONTRACTOR SHALL EXERCISE CARE DURING THE INSTALLATION OF THE VAPOR BARRIER TO PROVIDE SPECIFIED OVERLAP BETWEEN INDIVIDUAL SHEETS AND SHALL TAPE ALL JOINTS. SHOULD THE MATERIAL BE TORN OR PUNCTURED, PATCH BY ADDITION OF MATERIAL OVER AFFECTED AREA WITH AT LEAST 12" COVERAGE BEYOND DAMAGE, AND TAPE ALL JOINTS. ALSO SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

S. DO NOT SCALE DRAWINGS; CONTACT ARCHITECT FOR ANY NEEDED CLARIFICATION.

T. COORDINATE LOCATION OF SIGNS WITH SITE PLAN, INTERIOR AND EXTERIOR ELEVATIONS AND FLOOR PLANS.

U. COORDINATE WALL OPENING REQUIREMENTS FOR MECHANICAL DUCTS, PIPES, ETC. AND FOR ELECTRICAL CONDUIT WITH MECHANICAL AND ELECTRICAL DRAWINGS AND PROVIDE AS NEEDED. OPENINGS SHALL BE SIZED ONLY AS NEEDED FOR THESE PENETRATIONS AND SHALL BE SEALED AT EDGES FOR SOUND CONTROL REQUIREMENTS WHERE REQUIRED, TYP.

V. REFER TO SHEET A30.01 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON WALL BACKING & BLOCKING REQUIREMENTS.

LEGEND

1HR 6S/MV1 — WALL TYPE REFERENCE, SEE SHEETS SERIES A30.01 AND A31.01 FOR WALL TYPE DESCRIPTIONS, AND WALL TYPE REFERENCE LEGEND

FLOOR BOX, SEE ELECTRICAL, PROVIDE FINISH FLOORING INSERT, TYP.

CEILING HEIGHT CHANGE ABOVE, U.N.O.

FD — FLOOR DRAIN, SEE DTL

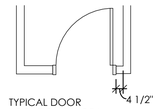
FD — FLOOR DRAIN, WITH LOCALIZED SLOPE, SEE DTL

FS — FLOOR SINK

DS — DOWNSPOUT, SEE GENERAL NOTES

FEC — WALL MOUNTED FIRE EXTINGUISHER IN CABINET

FEB — WALL MOUNTED FIRE EXTINGUISHER ON BRACKET



TYPICAL DOOR LOCATION DIAGRAM



CORNER GUARD, SEE FLOOR PATTERN AND SIGNAGE PLANS FOR LOCATIONS. ALSO SEE CG TYPES ON A72.10. (NOTE: CORNER GUARDS AT KITCHEN ARE SS. REFER TO SHEET FS-4 FOR LOCATIONS)

1-HOUR FIRE RATED WALL BARRIER

TYPICAL NEW WALL TYPES

ALL NEW INTERIOR WALLS ARE TYPE 6S/2 UNLESS NOTED OTHERWISE

6S/2

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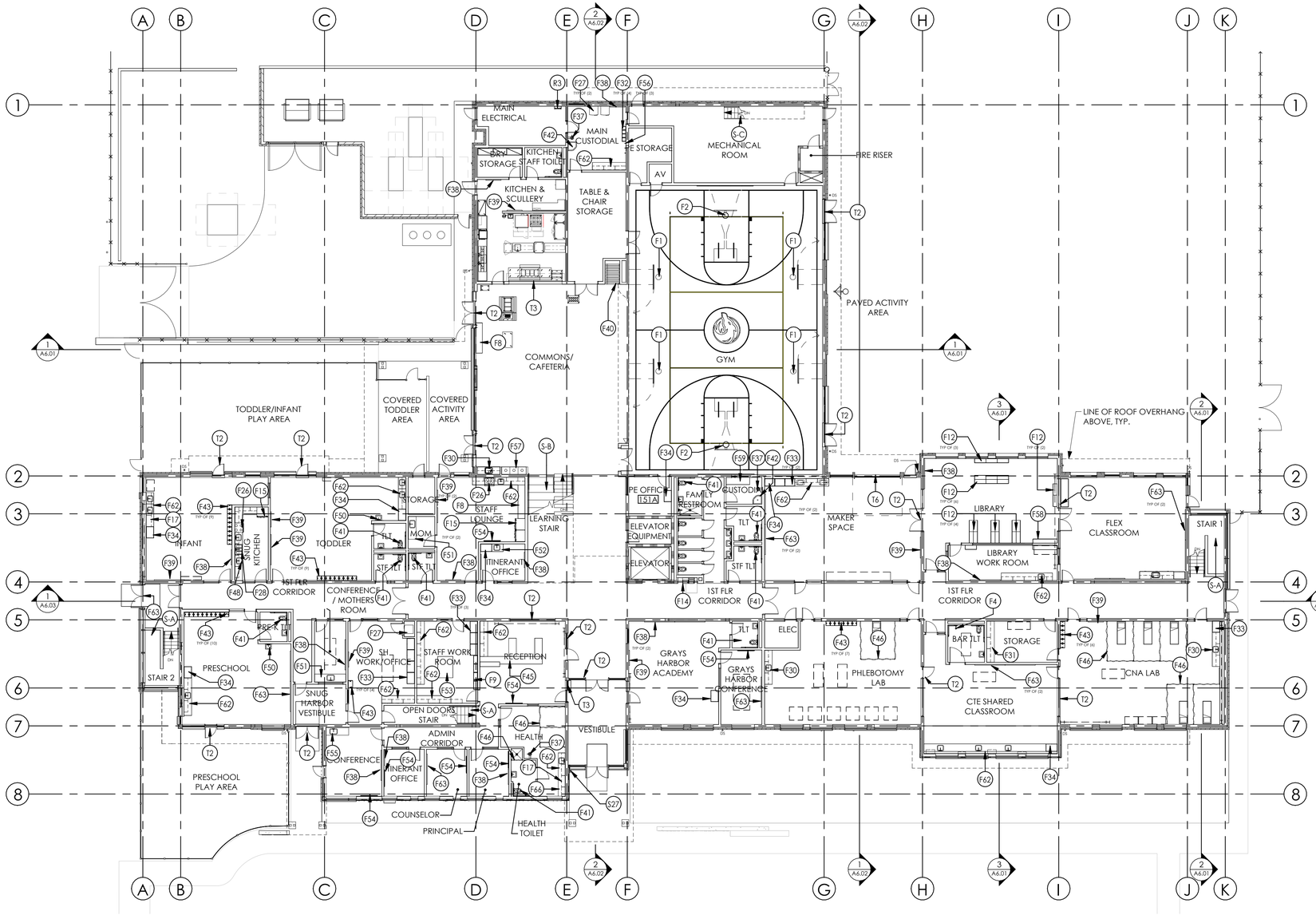
FLOOR PLAN GENERAL NOTES & LEGEND

A2.01

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1 FIRST FLOOR REFERENCE PLAN
1/16" = 1'-0"

NORTH

SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES, KEYNOTES AND LEGEND
B. SEE A30 SERIES SHEETS FOR EXTERIOR WALL TYPE DESCRIPTIONS AND GENERAL NOTES
C. SEE SHEET A2.02b AND A2.03b FOR WALL ASSEMBLY REFERENCES

KEYNOTES

F1	SIDE-FOLD BASKETBALL HOOP WITH HEIGHT ADJUSTER & BREAKAWAY RIM, WITH 8'-0" HEIGHT WALL PADS
F2	FRONT-FOLD BASKETBALL HOOP WITH HEIGHT ADJUSTER & BREAKAWAY RIM, WITH 8'-0" HEIGHT WALL PADS
F4	ACCESSIBLE SHOWER & BENCH SEAT
F8	SOLID SURFACE COUNTERTOP
F9	STAFF MAILBOXES OVER BASE CABINETS
F12	3' TALL BOOKSHELVES FOR DISPLAY
F14	DRINKING FOUNTAIN
F15	REFRIGERATOR
F17	UNDER COUNTER REFRIGERATOR
F26	OVEN/RANGE WITH RESIDENTIAL HOOD
F27	RESIDENTIAL STACKING WASHER/DRYER
F28	3 COMPARTMENT SINK
F30	TYPICAL CLASSROOM CASEWORK: PLAM FACED COUNTERTOP WITH DROP IN SINK, LOWER CASEWORK, UPPER CASEWORK, PAPER TOWEL DISPENSER, SOAP DISPENSER, SEE TYPICAL CLASSROOM LAYOUT ON SHEET A80.01
F31	TYPICAL SCIENCE CLASSROOM: RESIN/CHEMICAL RESISTANT COUNTERTOP, LOWER CASEWORK TYPICAL, UPPER CASEWORK TYPICAL, INTEGRAL SINKS WHERE OCCUR
F32	METAL LOCKERS
F33	FULL HEIGHT CASEWORK
F34	FULL HEIGHT CASEWORK WARDROBE
F37	EYEWASH STATION
F38	MARKER BOARD
F39	TACK BOARD
F40	MANUALLY OPERATED PARTITION WALL SYSTEM WITH TRACK AND DOOR
F41	ADA COMPARTMENT: PROVIDE ITEMS ABD CLEARANCES PER G2.02
F42	FLOOR SINK, MOP/BROOM HOLDER CHEMICAL DISPENSER, EYEWASH STATION
F43	PLAM FACED CASEWORK CUBBY
F45	CUSTOM HARDWOOD VENEER RECEPTION DESK, WITH SOLID SURFACE COUNTERTOP
F46	SHOWER CURTAIN
F48	INTEGRAL SINK
F50	CHILD HEIGHT SINK
F51	MOTHERS COUNTERTOP: PLAM FACED COUNTERTOP WITH DROP-IN SINK, LOWER CASEWORK TYPICAL, LOWER MINI FRIDGE, PAPER TOWEL DISPENSER, SOAP DISPENSER TYPICAL
F52	INTERANT OFFICE COUNTERTOP: PLAM COUNTERTOP WITH DROP-SINK, LOWER 3' BASE CABINET, WALL MOUNT MIRROR
F53	STAFF WORK COUNTER: PLAM COUNTERTOP, LOWER BASE CASEWORK, WITH OPEN SHELVES
F54	MONITOR
F55	CONFERENCE COUNTERTOP: PLAM COUNTERTOP WITH INTEGRAL SINK, LOWER CASEWORK TYPICAL, PAPER TOWLEL DISPENSER, SOAP DISPENSER TYPICAL
F56	COAT HOOK
F57	PLAM CASEWORK TRASH/RECYCLE ENCLOSURE
F58	FULL HEIGHT BOOKSHELVES FOR DISPLAY
F59	FULL HEIGHT CUSTODIAN SHELVING
F62	PLAM FACED COUNTERTOP, BASE, AND UPPERS, DROP-IN SINK WHERE OCCURS
F63	TYPICAL CLASSROOM TEACHING WALL, SEE TYPICAL LAYOUT ON SHEET A80.01
F66	ICE MAKER
R3	ROOF HATCH AND LADDER, 30" X 48"
S27	KNOX BOX
S-A	STAIR TYPE 'A', SEE A50.01
S-B	STAIR TYPE 'B', SEE A50.01
S-C	STAIR TYPE 'C', SEE A50.01
T2	STOREFRONT
T3	TRANSACTION WINDOW
T6	SECTIONAL DOOR

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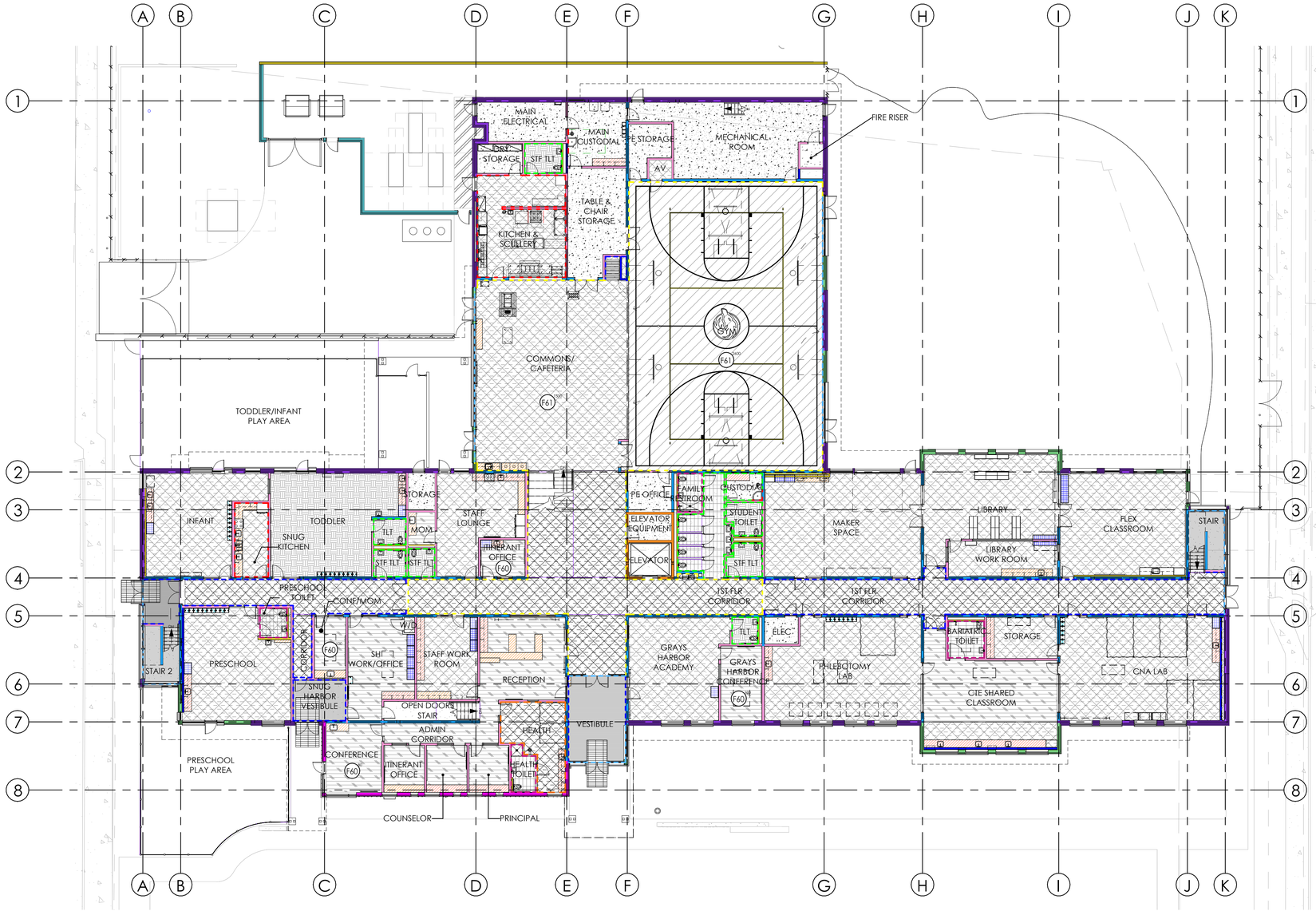
Sheet Title
FIRST FLOOR REFERENCE PLAN

A2.02a

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1 FIRST FLOOR REFERENCE PLAN
1/16" = 1'-0"

NORTH

WALL COVERING LEGEND

- MDF WAINSCOT, 3' - 8" HIGH
- ACOUSTIC WALL PANEL
- FULL HEIGHT VINYL WALL PANELING
- VINYL WALL COVERING T.O. MDF
- MDF WAINSCOT, 8' - 0" HIGH
- FIBER GLASS REINFORCED PANELS, FULL HEIGHT
- PLYWOOD WALL PANELING
- VINYL WALL PANELING
- CERAMIC TILE WAINSCOT, 5' - 0" HIGH
- CERAMIC TILE WAINSCOT, FULL HEIGHT

WALL TYPE LEGEND

SEE A30.02 FOR EXTERIOR WALL TYPE ASSEMBLY
SEE A31.01 FOR INTERIOR WALL TYPE ASSEMBLY

- WALL TYPE - 6S/2
- WALL TYPE - 8S/2
- WALL TYPE - 4S/1
- WALL TYPE - 8S/2 -1HR
- WALL TYPE - 8S/BV1
- WALL TYPE - 8S/MS1
- WALL TYPE - 8S/FCP1
- WALL TYPE - 8S/BV0
- WALL TYPE - 6S/1
- WALL TYPE - 8S1/MS
- WALL TYPE - 8M/BV
- WALL TYPE - 8C1

FLOOR FINISH LEGEND

CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
SV	SHEET VINYL
RAF	RUBBER ATHLETIC FLOORING
RESF	RESILIENT FLOORING
CONC-S	CONCRETE SEALED
WOM	SURFACE APPLIED CARPET WALK-OFF-MAT
PAVERS	PEDESTAL SUPPORTED ROOF PAVERS ASSEMBLY
WOM/A	ALUMINUM GRATE WALK-OFF-MAT WITH RECESSED SLAB

CASEWORK LEGEND

SEE SHEET A80.01 FOR TYPICAL CASEWORK ASSEMBLY AND TYPICAL CLASSROOM TEACHING WALL MARKER BOARD LAYOUT

ALTERNATE CLASSROOM CASEWORK:
IN LIEU OF TYPICAL CASEWORK WHERE NOTED, PROVIDE ALTERNATE CASEWORK OPTION SHOWN ON SHEET A80.01 AT TEACHING WALL LOCATIONS

- FULL HEIGHT STRG CABINETS
- BASE CABINETS WITH PLAM COUNTERTOP AND UPPERS
- FULL HEIGHT PLAM FACED CASEWORK CUBBIES FOR STUDENT STORAGE

KEYNOTES

F60	INSTALL 1" THICKNESS ACOUSTICAL WALL,CEILING PANELS FOR THE WALL AREA INDICATED IN KEYNOTE
F61	INSTALL 2" THICKNESS ACOUSTICAL WALL/CEILING PANELS FOR THHE WALL AREA INDICATED IN KEYNOTE

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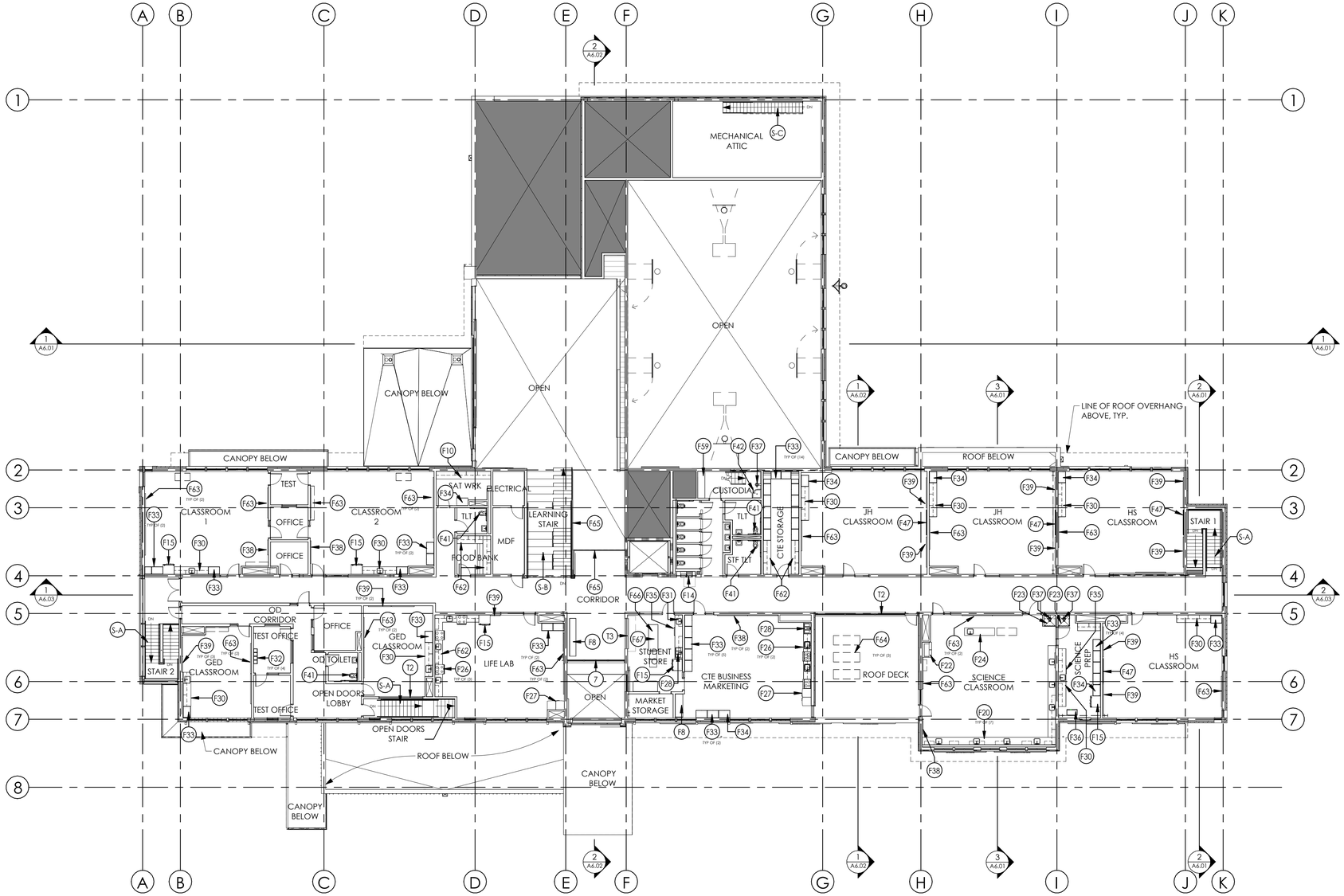
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FIRST FLOOR FINISH PLAN

A2.02b

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1 SECOND FLOOR REFERENCE PLAN
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NORTH

SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES, KEYNOTES AND LEGEND
B. SEE A30 SERIES SHEETS FOR EXTERIOR WALL TYPE DESCRIPTIONS AND GENERAL NOTES
C. SEE SHEET A2.02b AND A2.03b FOR WALL ASSEMBLY REFERENCES

KEYNOTES

7	
F8	SOLID SURFACE COUNTERTOP
F10	UPPER/BASE CABINETS, UPPER OPEN SHELVING, PLAM FACED COUNTERTOP
F14	DRINKING FOUNTAIN
F15	REFRIGERATOR
F20	TYPICAL LAB STATION: EPOXY RESIN COUNTER TOPS & INTEGRAL SINK GAS/AIR CONNECTIONS, UPPER CASEWORK WITH GLASS FRONTS, TYPICAL LOWER CASEWORK
F22	FUME HOOD
F23	DEPRESSED SLAB WITH METAL GRATE AND DRAIN FOR EMERGENCY SHOWER
F24	EPOXY RESIN COUNTERTOP WITH INTEGRAL SINK
F26	OVEN/RANGE WITH RESIDENTIAL HOOD
F27	RESIDENTIAL STACKING WASHER/DRYER
F28	3 COMPARTMENT SINK
F30	TYPICAL CLASSROOM CASEWORK: PLAM FACED COUNTERTOP WITH DROP IN SINK, LOWER CASEWORK, UPPER CASEWORK, PAPER TOWEL DISPENSER, SOAP DISPENSER, SEE TYPICAL CLASSROOM LAYOUT ON SHEET A80.01
F31	TYPICAL SCIENCE CLASSROOM: RESIN/CHEMICAL RESISTANT COUNTERTOP, LOWER CASEWORK TYPICAL, UPPER CASEWORK TYPICAL, INTEGRAL SINKS WHERE OCCUR
F32	METAL LOCKERS
F33	FULL HEIGHT CASEWORK
F34	FULL HEIGHT CASEWORK WARDROBE
F35	DISHWASHER
F36	CHEMICAL STORAGE CABINET
F37	EYEWASH STATION
F38	MARKER BOARD
F39	TACK BOARD
F41	ADA COMPARTMENT: PROVIDE ITEMS ABD CLEARANCES PER G2.02
F42	FLOOR SINK, MOP/BROOM HOLDER CHEMICAL DISPENSER, EYEWASH STATION
F47	85" TV, OFCI
F59	FULL HEIGHT CUSTODIAN SHELVING
F62	PLAM FACED COUNTERTOP, BASE, AND UPPERS, DROP-IN SINK WHERE OCCURS
F63	TYPICAL CLASSROOM TEACHING WALL, SEE TYPICAL LAYOUT ON SHEET A80.01
F64	PREFABRICATED METAL PLANTERS
F65	55" HEIGHT (CLIMB RESISTANT) CUSTOM FABRICATED STEEL GUARDRAIL
F66	ICE MAKER
F67	PIZZA WARMER
S-A	STAIR TYPE 'A', SEE A50.01
S-B	STAIR TYPE 'B', SEE A50.01
S-C	STAIR TYPE 'C', SEE A50.01
T2	STOREFRONT
T3	TRANSACTION WINDOW

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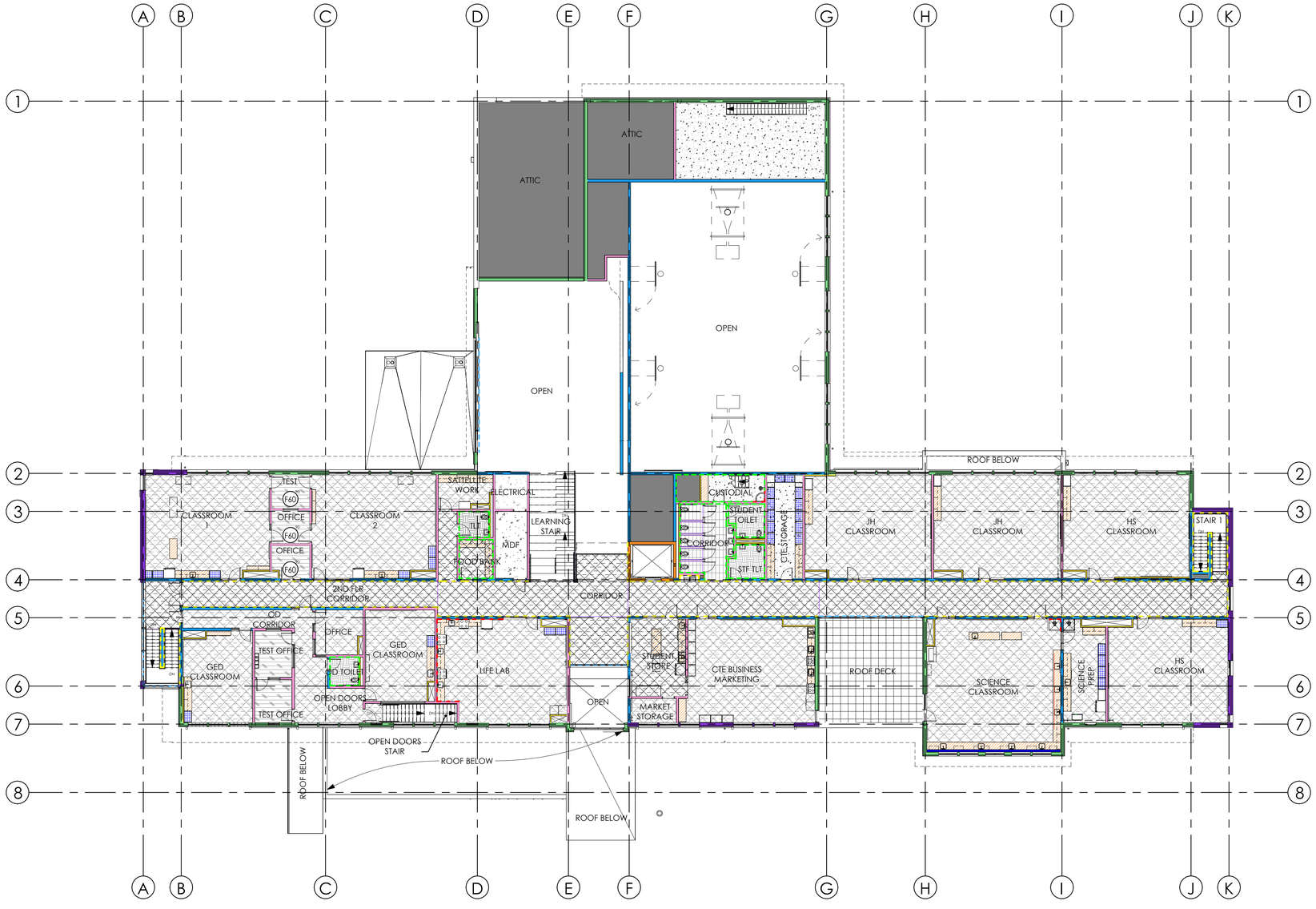
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SECOND FLOOR REFERENCE PLAN

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1 SECOND FLOOR REFERENCE PLAN
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NORTH

WALL COVERING LEGEND

- MDF WAINSCOT, 3' - 8" HIGH
- ACOUSTIC WALL PANEL
- FULL HEIGHT VINYL WALL PANELING
- VINYL WALL COVERING T.O. MDF
- MDF WAINSCOT, 8' - 0" HIGH
- FIBER GLASS REINFORCED PANELS, FULL HEIGHT
- PLYWOOD WALL PANELING
- VINYL WALL PANELING
- CERAMIC TILE WAINSCOT, 5' - 0" HIGH
- CERAMIC TILE WAINSCOT, FULL HEIGHT

WALL TYPE LEGEND

SEE A30.02 FOR EXTERIOR WALL TYPE ASSEMBLY
SEE A31.01 FOR INTERIOR WALL TYPE ASSEMBLY

- WALL TYPE - 6S/2
- WALL TYPE - 8S/2
- WALL TYPE - 4S/1
- WALL TYPE - 8S/2 -1HR
- WALL TYPE - 8S/BV1
- WALL TYPE - 8S/MS1
- WALL TYPE - 8S/FCP1
- WALL TYPE - 8S/BV0
- WALL TYPE - 6S/1
- WALL TYPE - 8S1/MS
- WALL TYPE - 8M/BV
- WALL TYPE - 8C1

FLOOR FINISH LEGEND

CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
SV	SHEET VINYL
RAF	RUBBER ATHLETIC FLOORING
RESF	RESILIENT FLOORING
CONC-S	CONCRETE SEALED
WOM	SURFACE APPLIED CARPET WALK-OFF-MAT
PAVERS	PEDESTAL SUPPORTED ROOF PAVERS ASSEMBLY
WOM/A	ALUMINUM GRATE WALK-OFF-MAT WITH RECESSED SLAB

CASEWORK LEGEND

SEE SHEET A80.01 FOR TYPICAL CASEWORK ASSEMBLY AND TYPICAL CLASSROOM TEACHING WALL MARKER BOARD LAYOUT

ALTERNATE CLASSROOM CASEWORK:
IN LIEU OF TYPICAL CASEWORK WHERE NOTED, PROVIDE ALTERNATE CASEWORK OPTION SHOWN ON SHEET A80.01 AT TEACHING WALL LOCATIONS

- FULL HEIGHT STRG CABINETS
- BASE CABINETS WITH PLAM COUNTERTOP AND UPPERS
- FULL HEIGHT PLAM FACED CASEWORK CUBBIES FOR STUDENT STORAGE

KEYNOTES

F60	INSTALL 1" THICKNESS ACOUSTICAL WALL,CEILING PANELS FOR THE WALL AREA INDICATED IN KEYNOTE

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NOTE: DRAWING MAY BE REDUCED
0 8' 16' 32'

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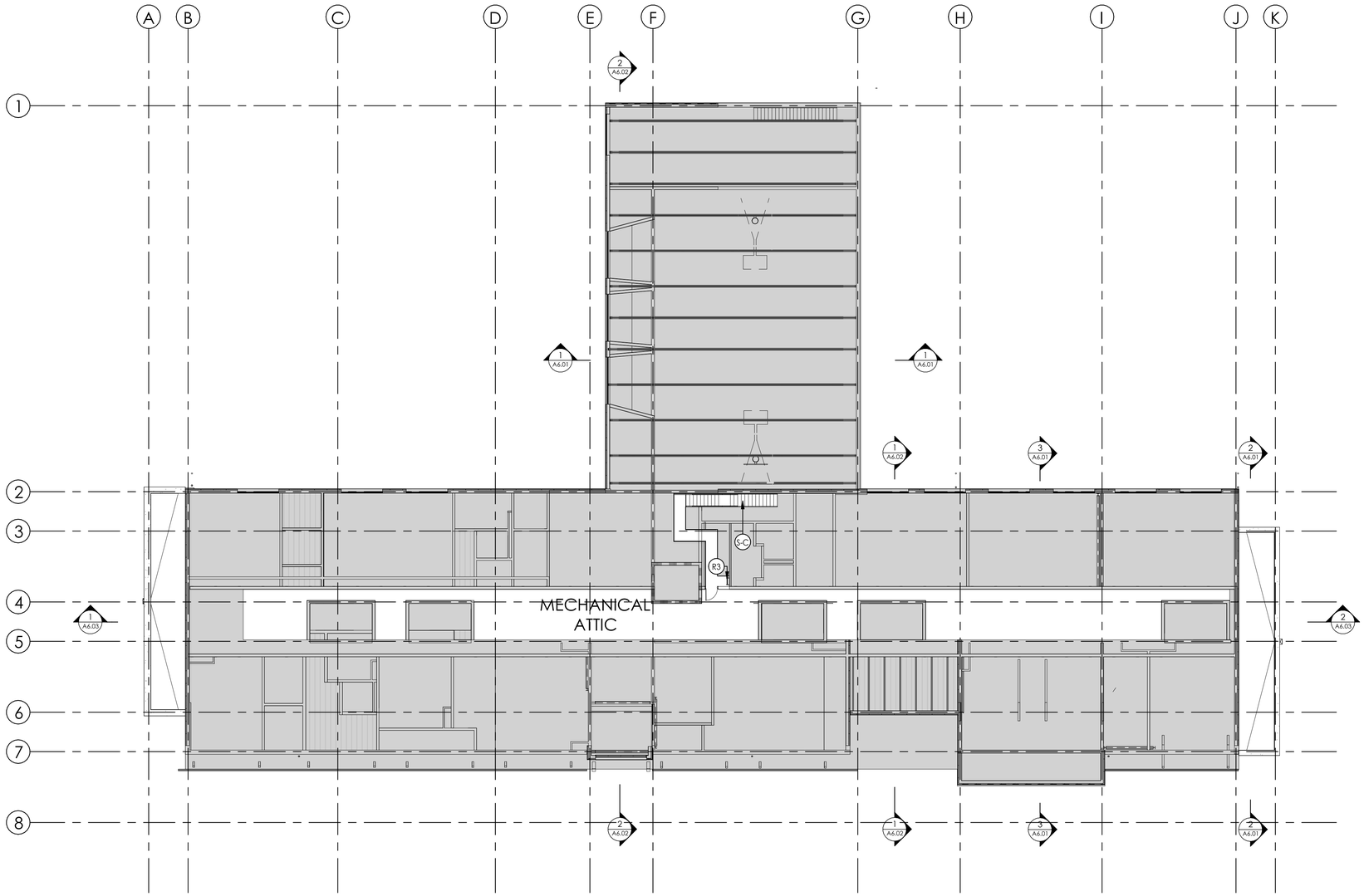
Sheet Title
SECOND FLOOR FINISH PLAN

A2.03b

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1 MECHANICAL ATTIC REFERENCE PLAN
1/16" = 1'-0"

NORTH

SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES, KEYNOTES AND LEGEND
B. SEE A30 SERIES SHEETS FOR EXTERIOR WALL TYPE DESCRIPTIONS AND GENERAL NOTES
C. SEE SHEET A2.02b AND A2.03b FOR WALL ASSEMBLY REFERENCES

KEYNOTES

R3	ROOF HATCH AND LADDER, 30" X 48"
S-C	STAIR TYPE 'C', SEE A50.01

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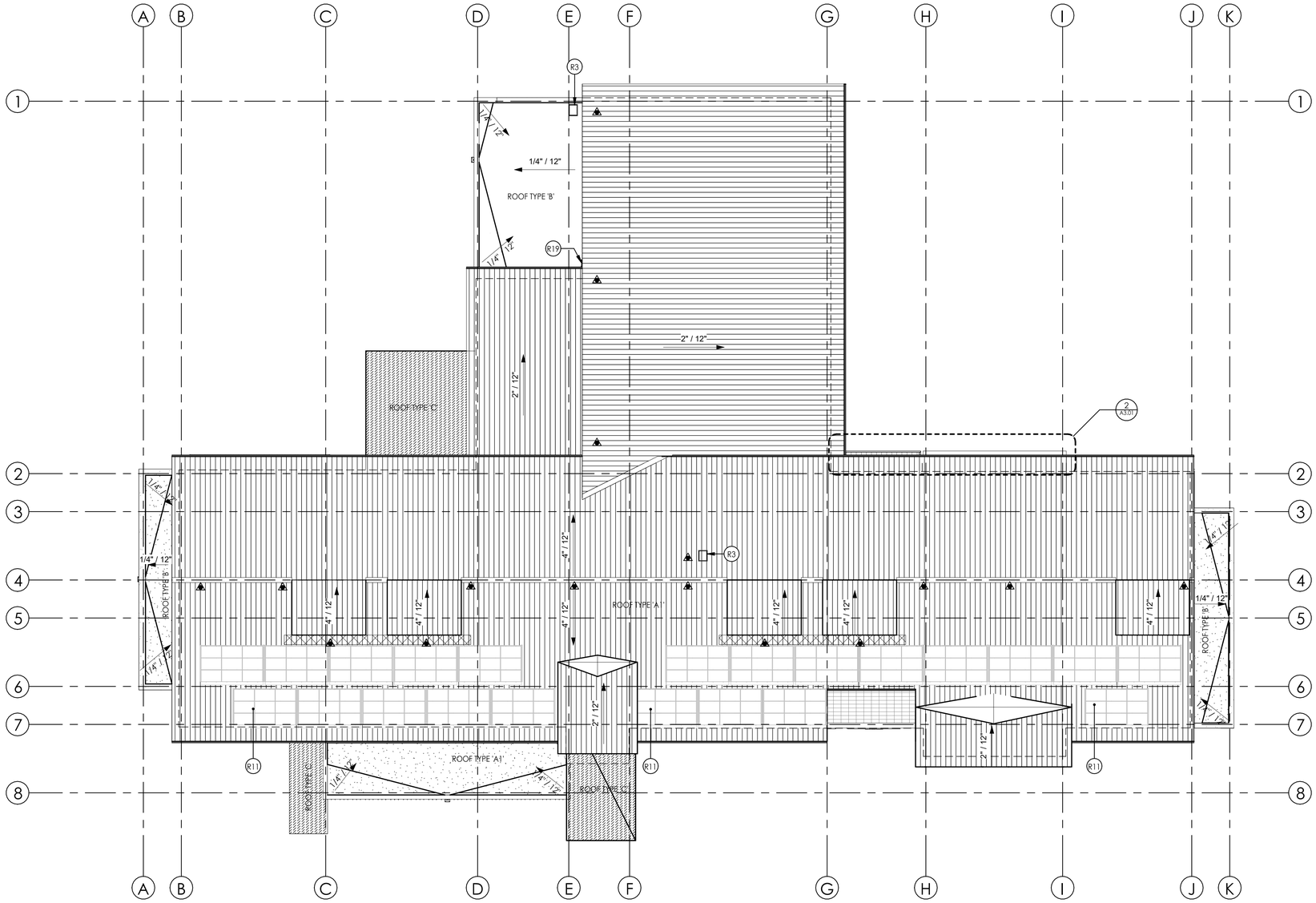
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MECHANICAL FLOOR PLAN

A2.04

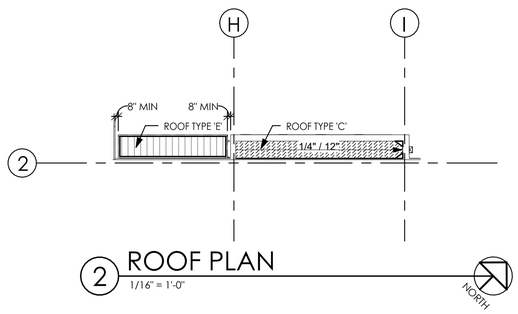
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1 REFERENCE ROOF PLAN
1/16" = 1'-0"



2 ROOF PLAN
1/16" = 1'-0"

GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. ROOF PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE LOCATED AWAY FROM ROOF VALLEYS. ALL ROOF PENETRATIONS SHALL BE PROPERLY FLASHED TO DIRECT PRECIPITATION TO GUTTERS AND SCUPPERS IN CONFORMANCE WITH DETAILS AND CURRENT "SMACNA" PUBLISHED STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ITEMS NOT DETAILED.

C. POSITIVE ROOF SLOPE: ALL ROOF CONSTRUCTION SHALL PROVIDE POSITIVE SLOPE TO DRAIN IN CONFORMANCE WITH N.R.C.A. PUBLISHED RECOMMENDATIONS. STANDING WATER OR PONDING SHALL NOT BE ACCEPTABLE. NOTE: ALL ROOF SLOPES ON ROOF PLAN ARE SURFACE SLOPE IN DIRECTION OF ARROW, TYP. ALL CRICKETS SLOPE AT 1:12 (SURFACE SLOPE), UNO.

D. SECTION REFERENCES: SEE FLOOR PLANS FOR ADDITIONAL BUILDING AND WALL SECTION REFERENCES.

E. ROOF TYPES AND DETAILS: SEE A40 SERIES SHEETS

F. DOWNSPOUTS: SEE FLOOR PLANS AND EXTERIOR ELEVATIONS FOR EXACT DOWNSPOUT, DOWNSPOUT BRACKET AND CONDUCTOR HEAD LOCATIONS. CAREFULLY COORDINATE WITH CIVIL DRAWINGS AND SUBCONTRACTOR TO ASSURE EXACT ALIGNMENT WITH STORM SEWER LINE CONNECTION AT GRADE.

1. ALL DOWNSPOUTS SIZES GIVEN ARE ID DIMENSIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR RESPECTIVE ROOF-MOUNTED EQUIPMENT AND ROOF PENETRATIONS.

2. PROVIDE TEMPORARY DRAINAGE FROM GUTTERS, SCUPPERS AND ROOF DRAINS AWAY FROM BUILDING UNTIL SUCH TIME AS FINAL DOWNSPOUT INSTALLATION AND CONNECTION TO STORM DRAINAGE SYSTEM.

G. PENETRATIONS: NOT ALL REQUIRED ROOF PENETRATIONS ARE ILLUSTRATED ON ARCHITECTURAL ROOF PLANS. PROVIDE CURBS, FLASHING, CRICKETS, COLLARS, ETC. PER ARCHITECTURAL DETAILS FOR ALL PENETRATIONS AND EQUIPMENT WHETHER SHOWN OR NOT. ALSO SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

H. M/E/P EQUIPMENT: REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ROOF-MOUNTED EQUIPMENT AND ROOF PENETRATIONS.

LEGEND

SEE SHEET A40.01 FOR ROOF TYPES

- XX"/12" — DIRECTION AND AMOUNT OF DOWNWARD SLOPE OF ROOF SURFACE
- ROOF WALKWAY PADS
- ROOF TYPE 'A' STANDING SEAM METAL ROOF
- NO PATTERN — ROOF TYPE 'B' SINGLE PLY EPDM MEMBRANE ROOF MECHANICALLY FASTENED
- ROOF TYPE 'C' SINGLE PLY EPDM MEMBRANE ROOF MECHANICALLY FASTENED, EXTERIOR CANOPY
- FALL PROTECTION TIE OFF POINT

KEYNOTES

R3	ROOF HATCH AND LADDER, 30" X 48"
R11	ROOF MOUNTED PV PANELS, MOUNTED ON RAIL AND CLIP SYSTEM
R19	ALUMINUM EXTERIOR LADDER

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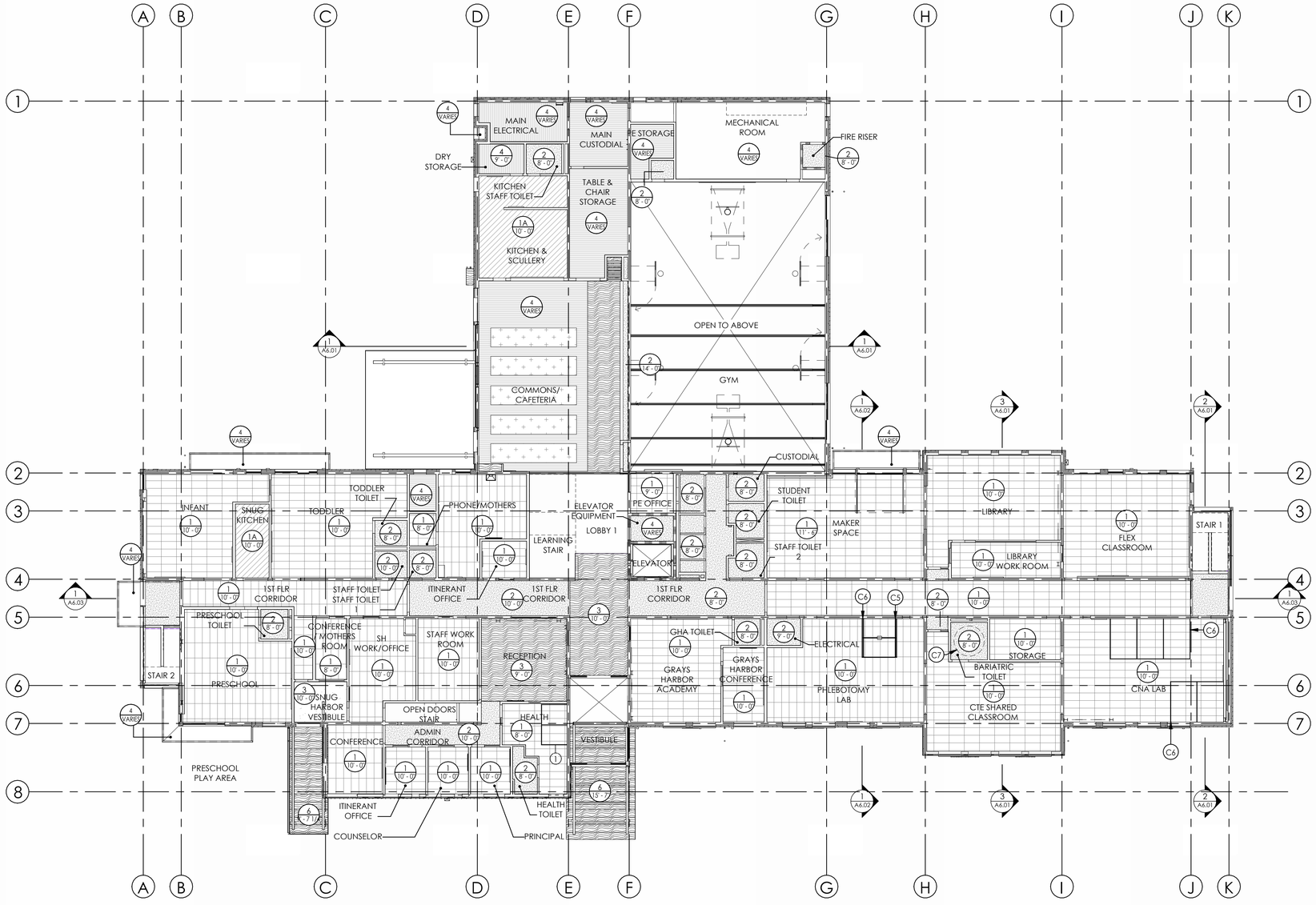
Sheet Title
REFERENCE ROOF PLAN

A3.01

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1 FIRST FLOOR REFLECTED CEILING PLAN

1/16" = 1'-0"

GENERAL NOTES

A. SEE SHEET G2.01 FOR GENERAL NOTES

B. GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE APPLICABLE TRADES TO PROVIDE PROPER LOCATIONS AND INSTALLATION OF CEILING ELEMENTS AND SYSTEMS

C. MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS IS FOR USE IN LOCATING CEILING MOUNTED FIXTURES, DIFFUSERS, GRILLES, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR QUANTITIES OF DEVICES AND ALL OTHER RELATED INFORMATION

D. STRUCTURAL ELEMENTS ARE SHOWN FOR CONTRACTORS CONVENIENCE, SEE STRUCTURAL DRAWINGS FOR ACTUAL SIZES AND SPACING OF SUCH ELEMENTS

E. ALL CEILING HEIGHTS ARE FROM THE TOP OF SLAB OR FLOOR DECKING DIRECTLY BELOW, UNLESS NOTED OTHERWISE

F. CEILING HEIGHTS ARE NOMINAL HEIGHTS, SEE WALL SECTIONS FOR ACTUAL CONSTRUCTION REQUIREMENTS

G. IF STAND ALONE LIGHT FIXTURE IS NOT DIMENSIONALLY LOCATED, COORDINATE WITH ARCHITECT

KEYNOTES

C5	BARIATRIC HOIST
C6	CEILING MOUNTED CURTAIN AND TRACK
C7	CEILING MOUNTED BARIATRIC SWING

CEILING & SOFFIT TYPES

TYPE 1:
2x4 SUSPENDED ACOUSTICAL CEILING PANELS (ACP), EXPOSED GRID (NON-RATED)

TYPE 1A:
2x4 SUSPENDED ACOUSTICAL CEILING PANELS (ACP), EXPOSED GRID, SRUBABABLE SURFACE (NON-RATED)

TYPE 2:
(1) LAYER 5/8" TYPE 'X' GWB APPLIED TO METAL CEILING FRAMING. WHERE STRUCTURAL DRAWINGS DO NOT ADDRESS FRAMING SIZE, USE 6" X 20 GAUGE STEEL STUD FRAMING @ 16" OC (NON-RATED)

TYPE 3:
SUSPENDED ACOUSTICAL HARDWOOD CEILING SYSTEM

TYPE 4:
EXPOSED TO STRUCTURE, ABOVE PAINT

TYPE 5:
SUSPENDED ACOUSTICAL CEILING PANELS

TYPE 6:
SHIPLAP WOOD, SOFFIT, STAIN

CEILING MODIFIERS

1HR — 1 HOUR FIRE RATED CEILING, SEE CEILING TYPE XX ABOVE

LEGEND

- CEILING TYPE
- CEILING HEIGHT ABOVE FLOOR BELOW MODIFIER, WHERE APPLICABLE
- SOFFIT TYPE, SEE A40.00
- SOFFIT HEIGHT, FEILD VERIFY MODIFIER, WHERE APPLICABLE
- RECESSED LIGHT FIXTURE (SEE ELECTRICAL)
- SUSPENDED LIGHT FIXTURE (SEE ELECTRICAL)
- EXIT SIGN (SEE ELECTRICAL & INTERIOR ELEVATIONS)
- WALL MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
- MECHANICAL GRILLE - SUPPLY (SEE MECHANICAL)
- MECHANICAL GRILLE - RETURN, RELIEF OR EXHAUST (SEE MECHANICAL)
- MECHANICAL GRILLE - EXHAUST (SEE MECHANICAL)
- PENDANT LIGHT FIXTURE (SEE ELECTRICAL)
- SUSPENDED LIGHT FIXTURE AT GYM AND MP ROOM (SEE ELECTRICAL)
- SURFACE MOUNTED EXTERIOR EGRESS LIGHT FIXTURE (SEE ELECTRICAL)
- SURFACE MOUNTED EXTERIOR LIGHT FIXTURE (SEE ELECTRICAL)
- WALL MOUNTED EGRESS LIGHT FIXTURE (SEE ELECTRICAL)
- 24"x24" CEILING ACCESS PANEL
- CEILING MOUNTED EXIT SIGN (SEE ELECTRICAL)

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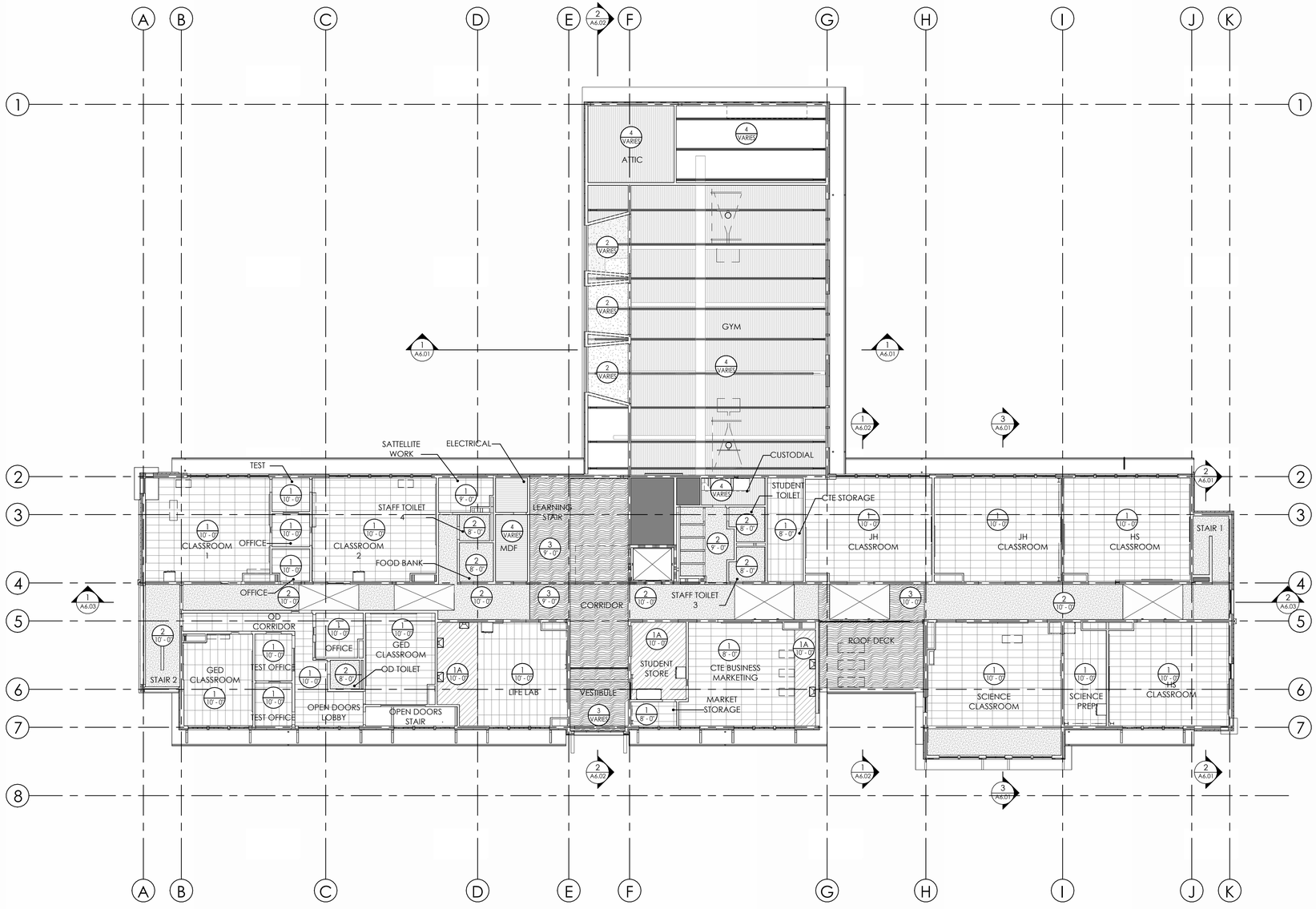
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FIRST FLOOR REFERENCE REFLECTED CEILING PLAN

A4.01

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1 SECOND FLOOR REFLECTED CEILING PLAN
1/16" = 1'-0"

CEILING & SOFFIT TYPES

TYPE 1:
2x4 SUSPENDED ACOUSTICAL CEILING PANELS (ACP), EXPOSED GRID (NON-RATED)

TYPE 1A:
2x4 SUSPENDED ACOUSTICAL CEILING PANELS (ACP), EXPOSED GRID, SRUBABABLE SURFACE (NON-RATED)

TYPE 2:
(1) LAYER 5/8" TYPE 'X' GWB APPLIED TO METAL CEILING FRAMING. WHERE STRUCTURAL DRAWINGS DO NOT ADDRESS FRAMING SIZE, USE 6" X 20 GAUGE STEEL STUD FRAMING @ 16" OC (NON-RATED)

TYPE 3:
SUSPENDED ACOUSTICAL HARDWOOD CEILING SYSTEM

TYPE 4:
EXPOSED TO STRUCTURE, ABOVE PAINT

TYPE 5:
SUSPENDED ACOUSTICAL CEILING PANELS

TYPE 6:
SHIPLAP WOOD, SOFFIT, STAIN

CEILING MODIFIERS

1HR — 1 HOUR FIRE RATED CEILING, SEE CEILING TYPE XX ABOVE

LEGEND

- CEILING TYPE
- CEILING HEIGHT ABOVE FLOOR BELOW MODIFIER, WHERE APPLICABLE
- SOFFIT TYPE, SEE A40.00
- SOFFIT HEIGHT, FEILD VERIFY MODIFIER, WHERE APPLICABLE
- RECESSED LIGHT FIXTURE (SEE ELECTRICAL)
- SUSPENDED LIGHT FIXTURE (SEE ELECTRICAL)
- EXIT SIGN (SEE ELECTRICAL & INTERIOR ELEVATIONS)
- WALL MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
- MECHANICAL GRILLE - SUPPLY (SEE MECHANICAL)
- MECHANICAL GRILLE - RETURN, RELIEF OR EXHAUST (SEE MECHANICAL)
- MECHANICAL GRILLE - EXHAUST (SEE MECHANICAL)
- PENDANT LIGHT FIXTURE (SEE ELECTRICAL)
- SUSPENDED LIGHT FIXTURE AT GYM AND MP ROOM (SEE ELECTRICAL)
- SURFACE MOUNTED EXTERIOR EGRESS LIGHT FIXTURE (SEE ELECTRICAL)
- SURFACE MOUNTED EXTERIOR LIGHT FIXTURE (SEE ELECTRICAL)
- WALL MOUNTED EGRESS LIGHT FIXTURE (SEE ELECTRICAL)
- 24"x24" CEILING ACCESS PANEL
- CEILING MOUNTED EXIT SIGN (SEE ELECTRICAL)

SHEET NOTES

A. SEE SHEET A4.01 FOR RCP GENERAL NOTES AND RCP LEGEND

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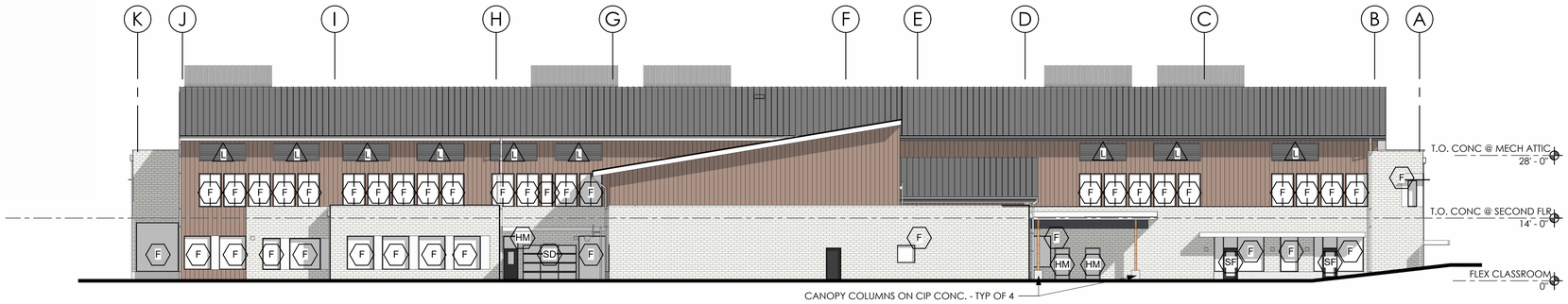
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SECOND FLOOR REFERENCE REFLECTED CEILING PLAN

A4.02

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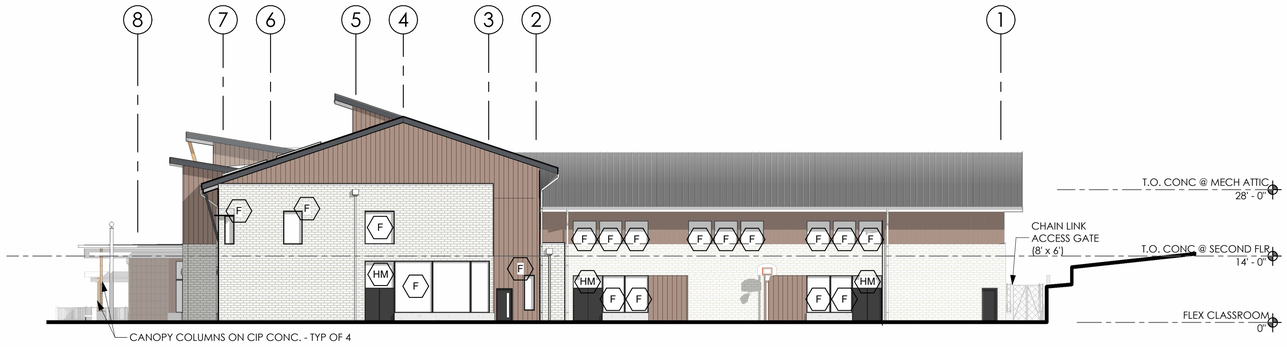
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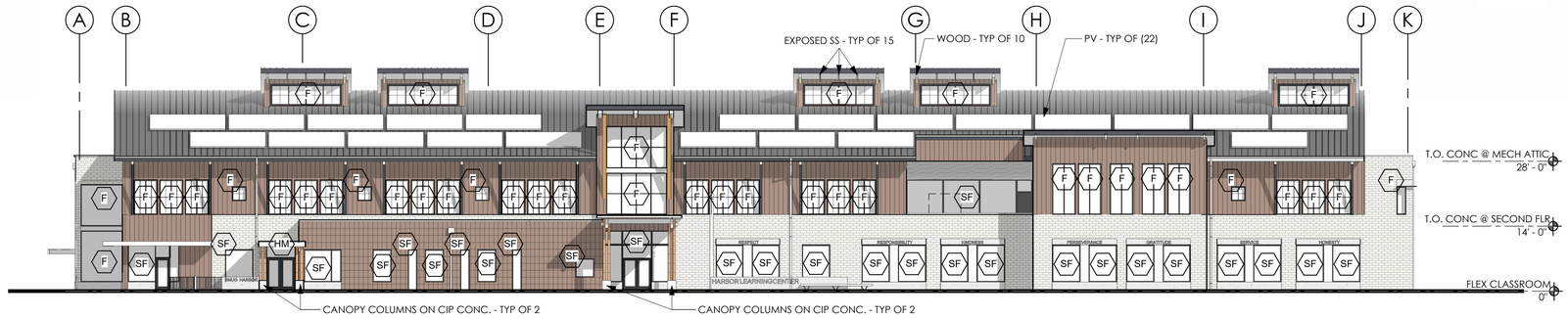
1 NORTH ELEVATION

1/16" = 1'-0"



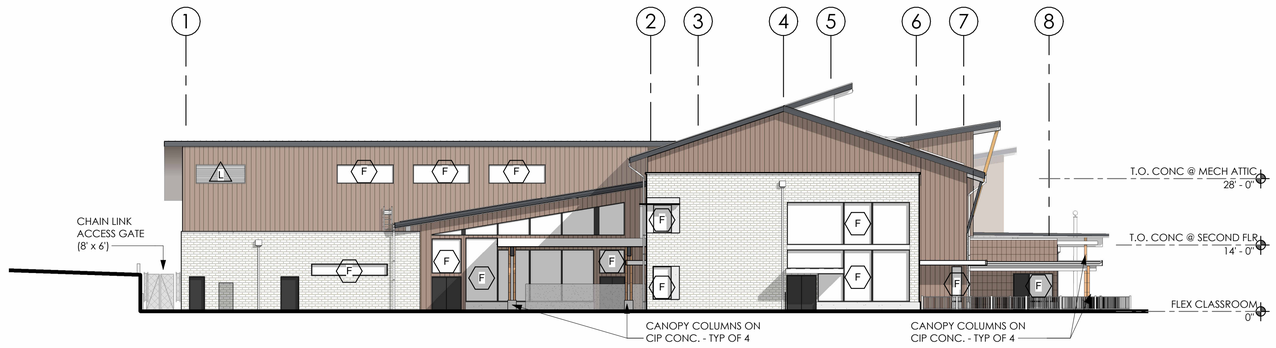
2 EAST ELEVATION

1/16" = 1'-0"



3 SOUTH ELEVATION

1/16" = 1'-0"



4 WEST ELEVATION

1/16" = 1'-0"

GENERAL NOTES

A. SEE FLOOR PLANS FOR WINDOW TYPES NOT CALLED OUT ON EXTERIOR ELEVATIONS
B. SEE COLOR AND MATERIAL FINISH SCHEDULE ON SHEET A71.00 FOR COLOR TREATMENT AND COLOR DEFINITIONS
C. FIBER CEMENT PANEL (FCP) CONTROL JOINT TO BLEND WITH ADJACENT FCP, COLOR MATCHED OR COLOR FINISHED SEALANT
D. SEE GENERAL NOTES ON SHEET G2.01 FOR ADDITIONAL INFORMATION
E. ARCHITECTURAL DRAWINGS DO NOT ILLUSTRATE ALL MECHANICAL AND ELECTRICAL ITEMS AND DEVICES. ITEMS AND DEVICES WHICH ARE SHOWN ARE FOR COORDINATION AND LOCATING PURPOSES

LEGEND

- HM — HOLLOW METAL
- F — FIBERGLASS FRAME
- SF — STOREFRONT
- CW — CURTAINWALL
- L — LOUVER
- SD — SECTIONAL OVERHEAD DOOR

MATERIAL LEGEND

- BRICK VENEER
- MS1 - VERTICALLY ORIENTED FLUSH PANEL PREFINISHED METAL SIDING
- MS2 - "LARGE TILE" PREFINISHED METAL WALL SHINGLE PANELS
- STANDING SEAM METAL ROOFING

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EXTERIOR ELEVATIONS

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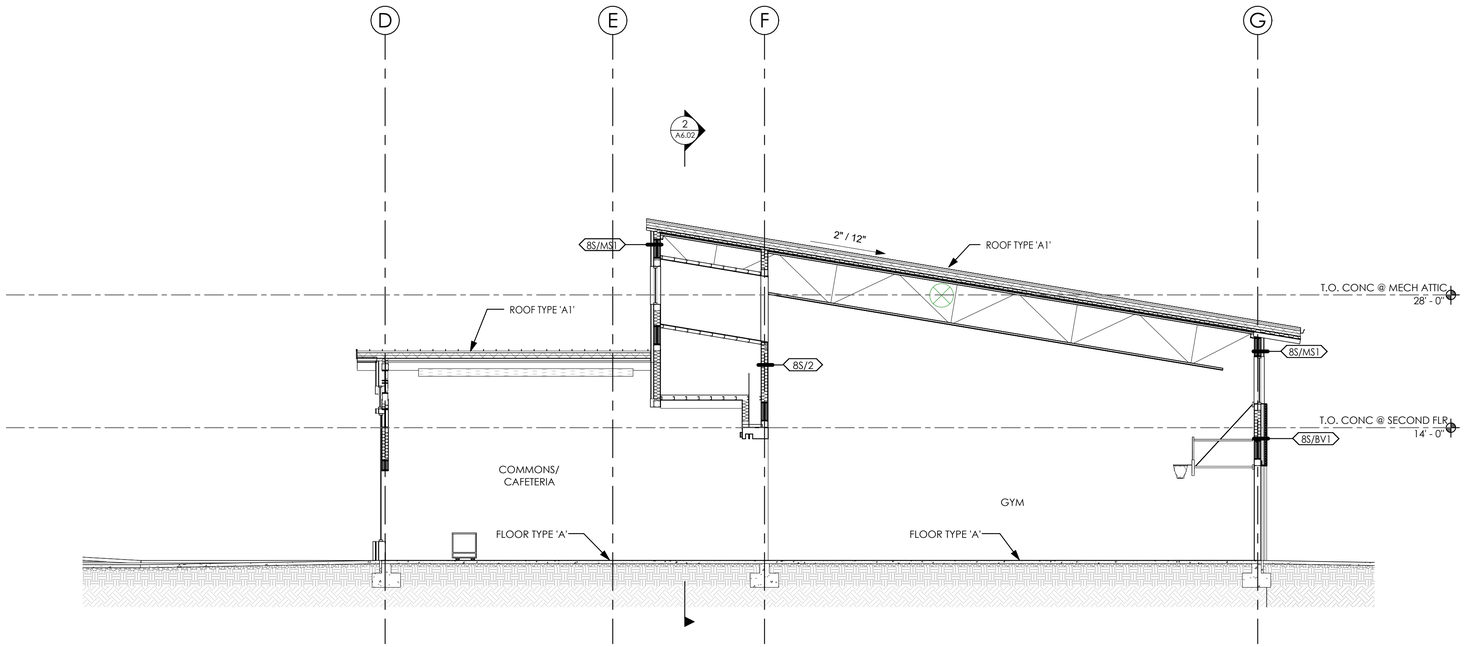
SHEET NOTES

A. SEE SHEET A30.01 & 31.01 FOR WALL TYPES, BUILDING AND WALL SECTION GENERAL NOTES
B. SEE A2.10 SERIES FOR TYPICAL WALL TYPES NOT NOTED ON BUILDING AND WALL SECTIONS
C. SEE GENERAL NOTES ON SHEET G2.01 FOR ADDITIONAL INFORMATION

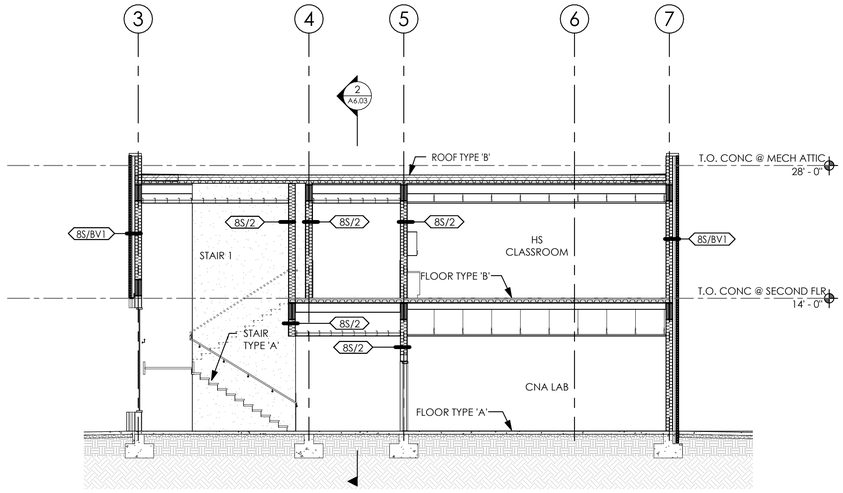
BUILDING SECTION LEGEND

- CAPILLARY BREAK, SEE SPECIFICATIONS
- UNDISTURBED EARTH, SEE SPECIFICATIONS
- FILL, SEE SPECIFICATIONS
- GRAVEL BACKFILL, SEE SPECIFICATIONS
- BELOW GRADE INSULATION, SEE SPECIFICATIONS

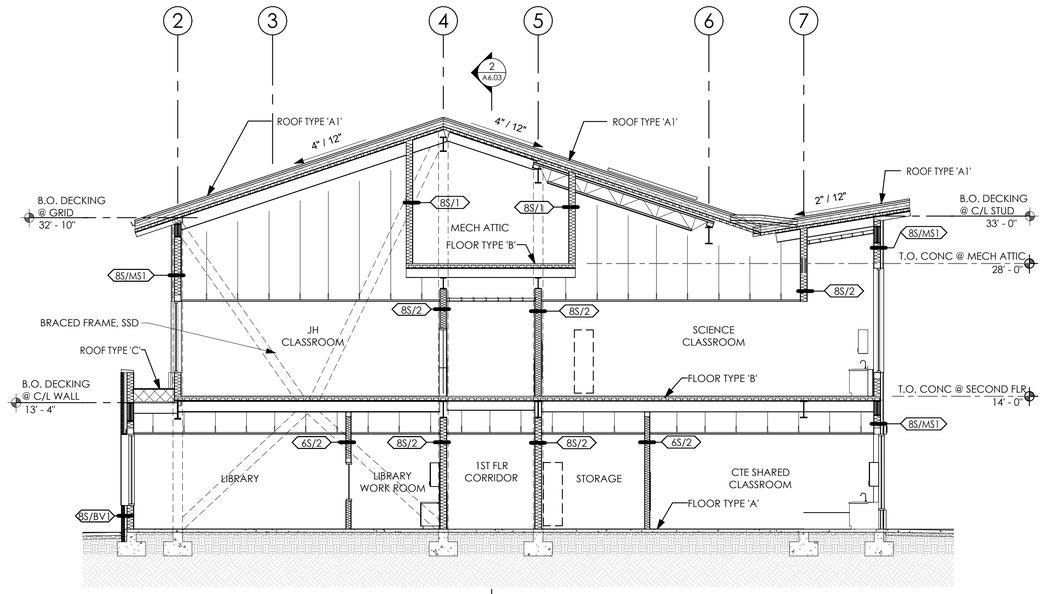
NOTE: HATCHES SHOW APPROXIMATE LOCATIONS OF FILL, GRAVEL BACKFILL, AND UNDISTURBED EARTH. SEE CIVIL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.



1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"

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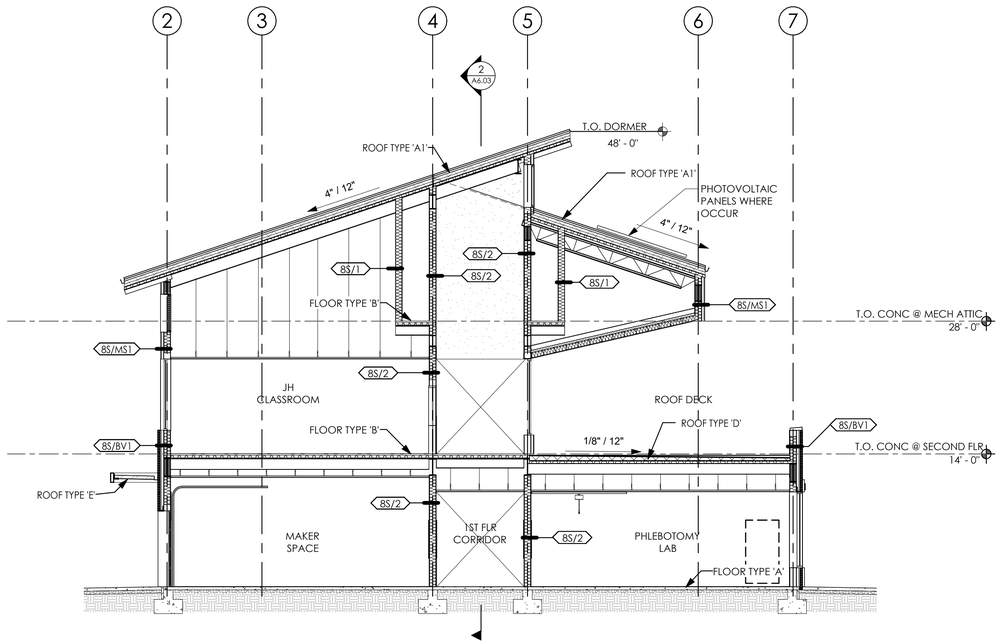
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BUILDING SECTIONS

A6.01

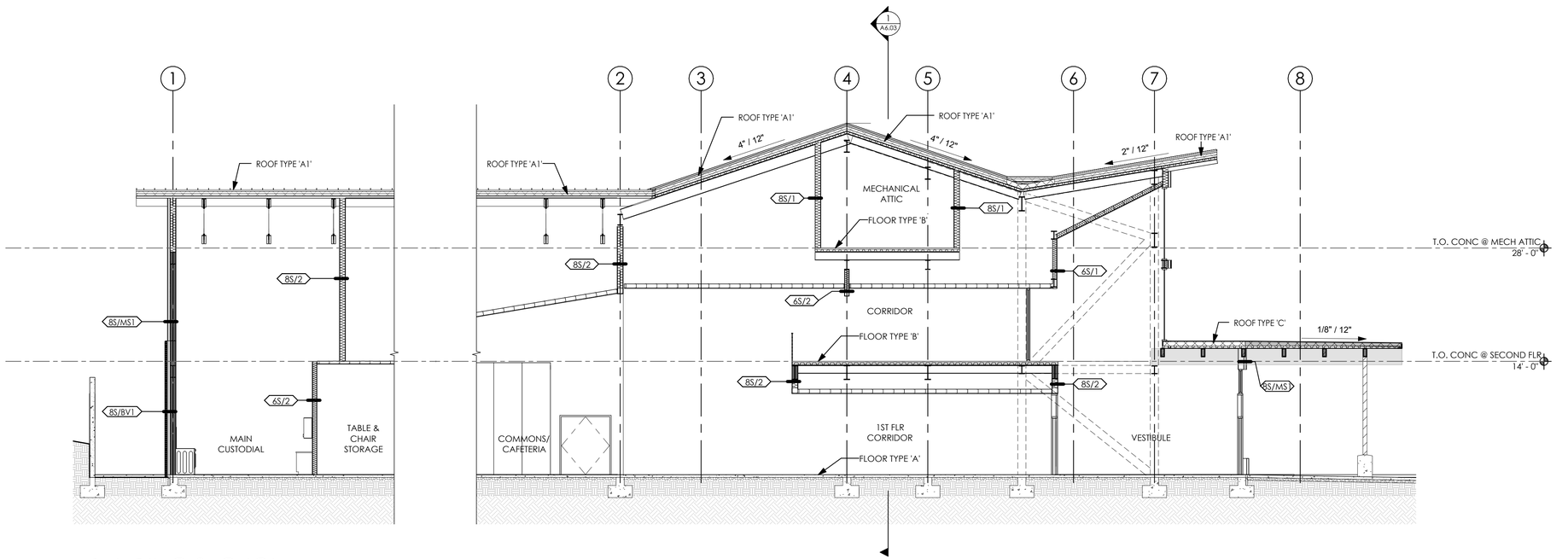
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1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"

SHEET NOTES

A. SEE SHEET A30.01 & 31.01 FOR WALL TYPES, BUILDING AND WALL SECTION GENERAL NOTES
B. SEE A2.10 SERIES FOR TYPICAL WALL TYPES NOT NOTED ON BUILDING AND WALL SECTIONS
C. SEE GENERAL NOTES ON SHEET G2.01 FOR ADDITIONAL INFORMATION

BUILDING SECTION LEGEND

- CAPILLARY BREAK, SEE SPECIFICATIONS
- UNDISTURBED EARTH, SEE SPECIFICATIONS
- FILL, SEE SPECIFICATIONS
- GRAVEL BACKFILL, SEE SPECIFICATIONS
- BELOW GRADE INSULATION, SEE SPECIFICATIONS

NOTE: HATCHES SHOW APPROXIMATE LOCATIONS OF FILL, GRAVEL BACKFILL, AND UNDISTURBED EARTH. SEE CIVIL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.

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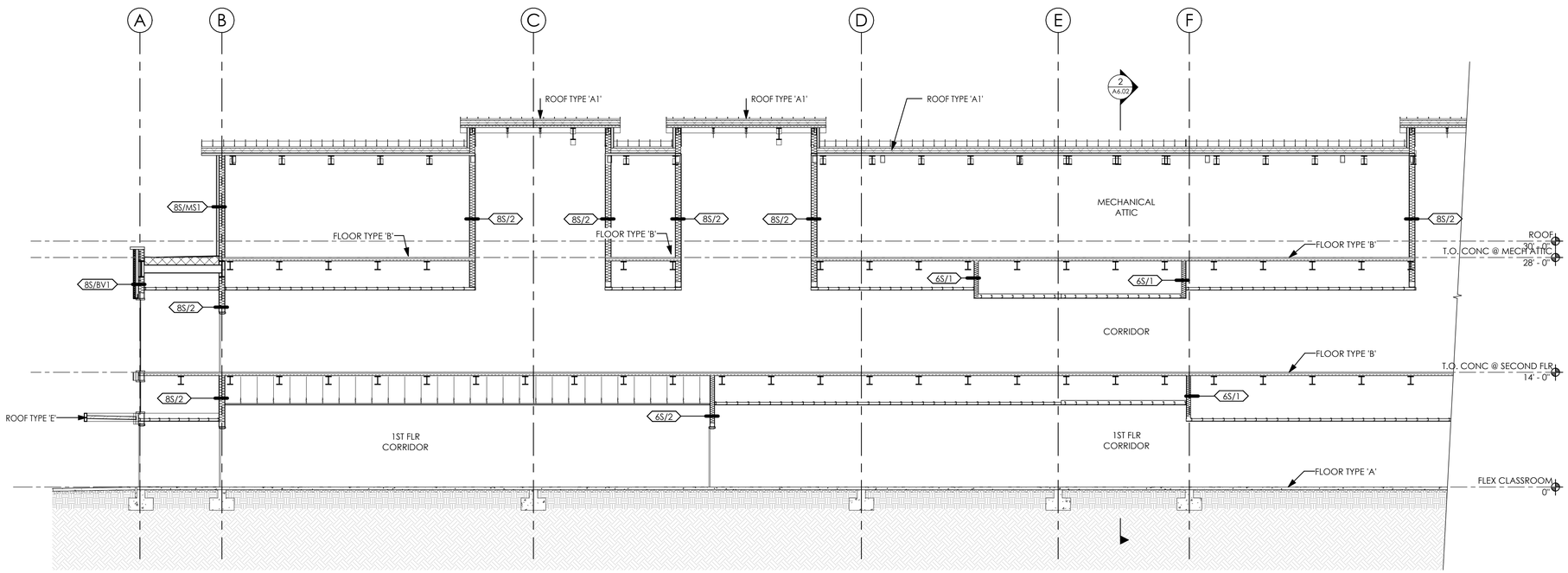
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BUILDING SECTIONS

A6.02

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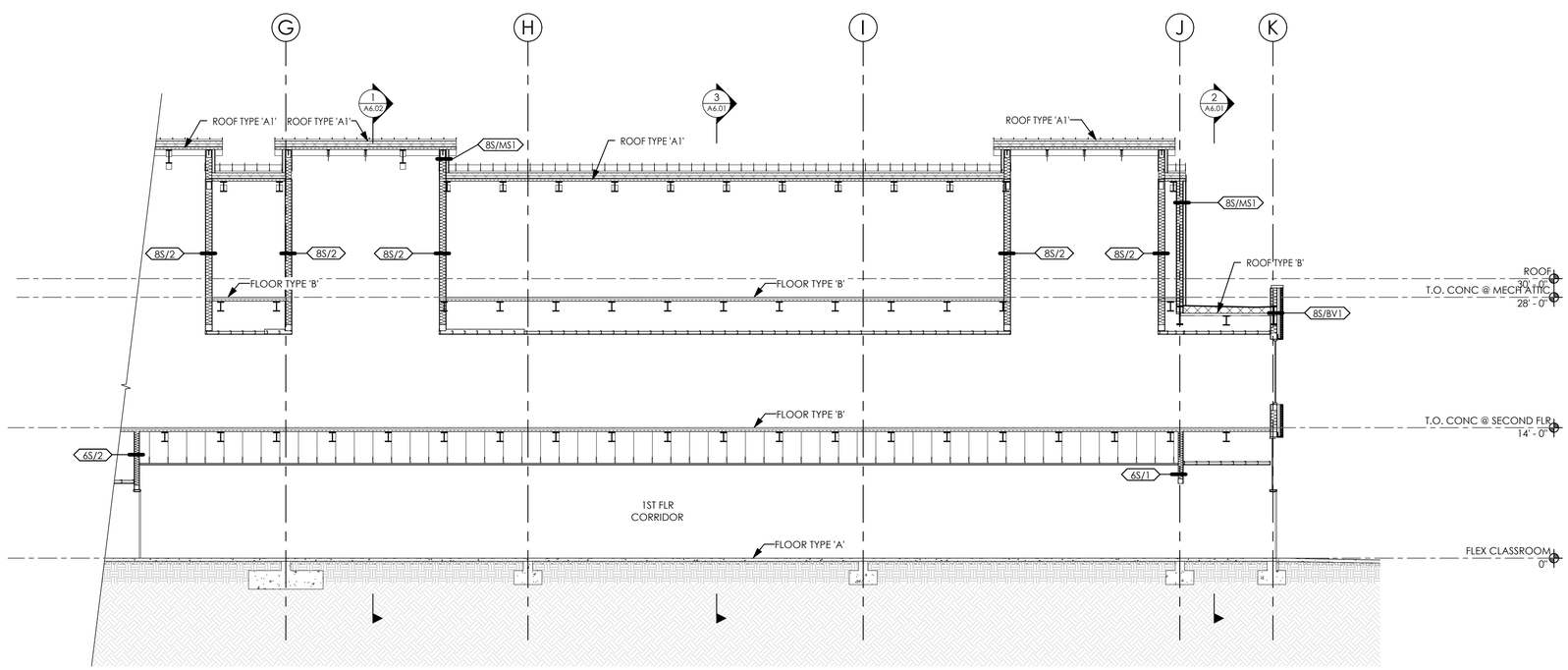
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1 BUILDING SECTION - WEST

1/8" = 1'-0"



2 BUILDING SECTION - EAST

1/8" = 1'-0"

SHEET NOTES

A. SEE SHEET A30.01 & 31.01 FOR WALL TYPES, BUILDING AND WALL SECTION GENERAL NOTES
B. SEE A2.10 SERIES FOR TYPICAL WALL TYPES NOT NOTED ON BUILDING AND WALL SECTIONS
C. SEE GENERAL NOTES ON SHEET G2.01 FOR ADDITIONAL INFORMATION

BUILDING SECTION LEGEND

- CAPILLARY BREAK, SEE SPECIFICATIONS
- UNDISTURBED EARTH, SEE SPECIFICATIONS
- FILL, SEE SPECIFICATIONS
- GRAVEL BACKFILL, SEE SPECIFICATIONS
- BELOW GRADE INSULATION, SEE SPECIFICATIONS

NOTE: HATCHES SHOW APPROXIMATE LOCATIONS OF FILL, GRAVEL BACKFILL, AND UNDISTURBED EARTH. SEE CIVIL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.

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Client

ABERDEEN SD #5

Project

HARBOR LEARNING CENTER

2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates

12 AUGUST 2025 95% SD

100% Schematic Design

Not for Construction

NOTE: DRAWING MAY BE REDUCED

0 4' 8' 16'

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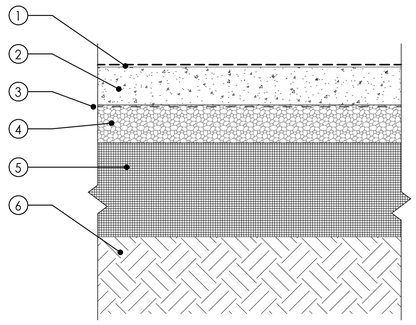
BUILDING SECTIONS

A6.03

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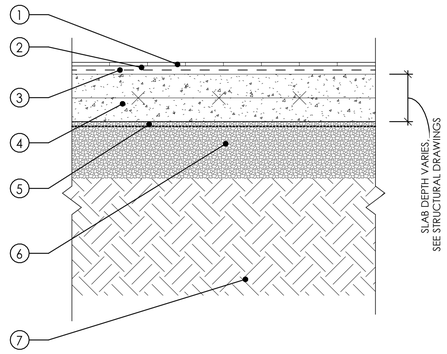
ASSEMBLY

1. FINISH FLOORING, AS SCHEDULED
2. CAST IN PLACE CONCRETE SLAB ON GRADE
3. WATERPROOF MEMBRANE
4. 4" CAPILLARY BREAK
5. IMPORTED COMPACTED STRUCTURAL FILL
6. NATIVE COMPACTED FILL

FIRE RATING

1. NON-RATED

FLOOR TYPE A - INTERIOR SLAB ON GRADE



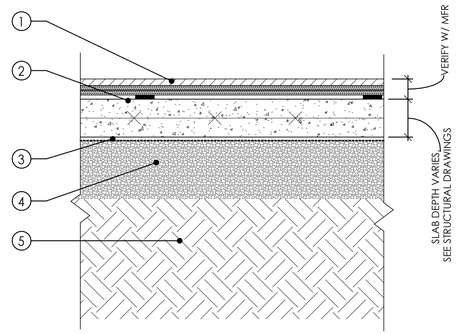
ASSEMBLY

1. TILE FLOORING, AS SCHEDULED
2. THIN SET MORTAR BOND COAT
3. WATERPROOF MEMBRANE
4. CONCRETE SLAB ON GRADE, SSD. SLOPE SLAB UNIFORMLY TO DRAIN AT ROOMS W/ FLOOR DRAINS & FLOOR SINKS, SEE MECH. MAINTAIN UNIFORM SLAB THICKNESS AT SLOPED SLABS.
5. VAPOR BARRIER
6. 6" CAPILLARY BREAK
7. COMPACTED SUBGRADE OR STRUCTURAL FILL, SEE CIVIL & GEOTECH REPORT

FIRE RATING

1. NON-RATED

FLOOR TYPE A1 - (@ FIRST FLOOR RESTROOMS)



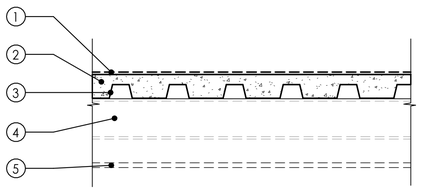
ASSEMBLY

1. RUBBER ATHLECTIC FLOORING
2. CONCRETE SLAB ON GRADE, SSD
3. VAPOR BARRIER
4. 6" CAPILLARY BREAK
5. COMPACTED SUBGRADE OR STRUCTURAL FILL, SEE CIVIL & GEOTECH REPORT

FIRE RATING

1. NON-RATED

FLOOR TYPE A2 - INTERIOR SLAB ON GRADE (@GYM)



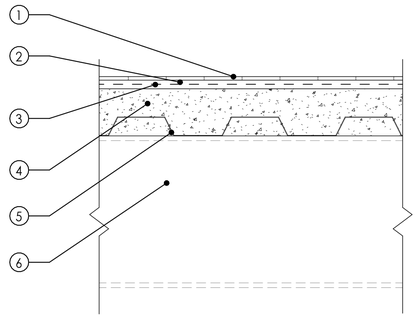
ASSEMBLY

1. FLOOR FINISH, AS SCHEDULED
2. CAST IN PLACE CONCRETE, SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR PADS, DEPRESSIONS, AND HOLES
3. METAL DECKING, SEE STRUCTURAL DRAWINGS
4. FLOOR STRUCTURE, SEE STRUCTURAL DRAWINGS
5. FINISH CEILING WHERE OCCURS, SEE REFLECTED CEILING PLAN FINISH CEILING TYPE AND ELEVATION

FIRE RATING

1. NON-RATED

FLOOR TYPE B1 - INTERIOR SLAB ON METAL DECKING



ASSEMBLY

1. FINISH AS SCHEDULED
2. THIN SET MORTAR BOND COAT
3. VAPOR BARRIER
4. NORMAL WEIGHT CONCRETE (2 1/2" OVER TOP OF FLUTE), SEE STRUCTURAL DRAWINGS. SEE FLOOR DETAILS FOR SLAB DEPRESSIONS AT FLOOR DRAINS
5. METAL DECK, SEE STRUCTURAL DRAWINGS, PAINT WHERE EXPOSED, SEE CEILING PLANS AND FINISH SCHEDULE
6. SOME STEEL STRUCTURE AT LOCATIONS, SSD, PAINT WHERE EXPOSED, SEE CEILING PLANS AND FINISH SCHEDULE

FIRE RATING

1. NON-RATED

FLOOR TYPE B2 - (@ SECOND FLOOR RESTROOMS)

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Sheet Title

FLOOR TYPES

A21.01

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GENERAL NOTES TO WALL TYPES , BUILDING & WALL SECTIONS

A. SEE G2.01 FOR ABBREVIATIONS & GENERAL NOTES.

B. ALL WALL TYPES ARE NOT NECESSARILY USED. SEE FLOOR PLANS, BUILDING, WALL, AND VERTICAL CIRCULATION SECTIONS FOR SCOPE.

C. WALL TYPES SHOWN ON FLOOR PLANS GENERALLY APPLY TO THE FULL EXTENT OF THE WALL EVEN WHEN INTERSECTED BY ANOTHER WALL. SEE SECTIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY MODIFY THE WALL TYPES ABOVE THE MAIN FLOOR LEVEL, IN WHICH CASE THE WALL SECTIONS GOVERN.

D. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE AND REINFORCEMENT OF WALLS - INTERIOR & EXTERIOR AND FOR CONCRETE REINFORCING.

E. ALL EXTERIOR WALL TYPES SHALL BE ASSUMED TO RUN FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS SPECIFICALLY DETAILED OTHERWISE. SEE SECTIONS AND STRUCTURAL DRAWINGS FOR MORE DETAILED INFORMATION.

F. CONTRACTOR SHALL EXERCISE CARE DURING THE INSTALLATION OF THE VAPOR BARRIER TO PROVIDE AT LEAST 12" OF OVERLAP BETWEEN INDIVIDUAL SHEETS AND SHALL TAPE ALL JOINTS. SHOULD THE MATERIAL BE TORN OR PUNNERED, PATCH BY ADDITION OF MATERIAL OVER AFFECTED AREA WITH AT LEAST 12" COVERAGE BEYOND DAMAGE, AND TAPE ALL JOINTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

G. SPRINKLER PIPES, DRAIN VALVES AND OTHER COMPONENTS OF THE SYSTEM (EXCEPT HEAD) SHALL NOT BE EXPOSED TO VIEW EXCEPT IN MECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS, CUSTODIAN ROOMS, ROOMS WITH EXPOSED STRUCTURE AND ATTICS, UNO. PROVIDE ACCESS PANELS/DOORS FOR FIRE SPRINKLER SYSTEM ACCESS WHERE SPRINKLER HEADS, DRAIN VALVES, INSPECTORS, TESTS, ETC. ARE INACCESSIBLE WITHOUT DEMOLITION OF BUILDING ELEMENTS. PANELS SHALL BE OF A FUNCTIONAL SIZE FOR APPLICATION, MEET ALL CODE REQUIREMENTS AND GENERAL CONTRACTOR SHALL COORDINATE WITH THE FIRE SPRINKLER SYSTEM DESIGNER (BIDDER / DESIGN) TO ASSURE ALL SUCH PANELS AND INSTALLATION COSTS ARE INCLUDED IN THE BID. ALL PANELS EXPOSED TO VIEW FROM OCCUPIED SPACES SHALL BE OF A FLUSH DESIGN, PAINTED TO MATCH ADJACENT SURFACES AND FIRE RATED WHERE REQUIRED BY CODE. SPRINKLER SUB-CONTRACTOR SHALL PROVIDE DRAWINGS CLEARLY INDICATING PROPOSED LOCATIONS OF EXPOSED PIPES, SPRINKLER HEADS AND ACCESS PANELS FOR THE ARCHITECT'S REVIEW AND APPROVAL. SHOULD THE ARCHITECT NOT APPROVE OF PROPOSED LOCATIONS, CONTRACTOR AND SPRINKLER SYSTEM DESIGNER SHALL ENDEAVOR TO WORK WITH THE ARCHITECT TO FIND ACCEPTABLE LOCATIONS. SUCH CHANGES SHALL BE INCLUDE IN THE BID.

H. WALL CONSTRUCTION SHALL BE PER THE WALL TYPE AND WALL SECTION REFERENCED AT EACH LOCATION. UNREFERENCED WALLS SHALL BE ASSUMED TO MATCH THE CONSTRUCTION AS CLARIFIED AND CONFIGURED IN SECTIONS AND ELEVATIONS) AS THE MOST SIMILAR ADJACENT WALL REFERENCED. SHOULD THERE BE A DISCREPANCY BETWEEN WALL TYPE REFERENCES AND BUILDING / WALL SECTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE CORRECT CONSTRUCTION WITH THE ARCHITECT.

I. SPACING OF STRUCTURAL AND NON-STRUCTURAL MEMBERS INDICATED ON DRAWINGS IS THE MAXIMUM ALLOWABLE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL LAYOUT PATTERN AND QUANTITIES REQUIRED, PARTICULARLY WITH RESPECT TO LAYOUT DEVIATIONS REQUIRED TO AVOID CONFLICT WITH MECHANICAL DUCTS, CHASES, LIGHT FIXTURES OR OTHER RECESSED EQUIPMENT FOR FIXTURES, ETC. PROVIDE ALL ADDITIONAL FRAMING, HEADERS, ETC., AS REQUIRED TO ACCOMMODATE.

J. COLUMNS (OR OTHER STRUCTURAL MEMBERS): ENGAGED BY PARTITIONS SHALL BE CONCEALED WITHIN WALLS AND FIRE PROTECTED WHERE REQ'D.

K. STUD WALLS:

1. CONSTRUCT ALL STUD WALLS IN ACCORDANCE WITH INDUSTRY STANDARD DETAILS, EXCEPT AS DETAILED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

2. PROVIDE BLOCKING AS REQUIRED BY CODE, AND AS DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.

3. PROVIDE BACKING FOR ALL RAILS, CASEWORK, COUNTERS, OR FIXTURES UNLESS NOTED OTHERWISE. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR TYPICAL BACKING DETAILS, AND PROVIDE AS REQUIRED BY WEIGHT TO BE SUPPORTED.

4. PROVIDE BACKING FOR ALL WALL MOUNTED EQUIPMENT. VERIFY ALL MOUNTING HEIGHTS AND SPECIAL STRUCTURAL SUPPORT REQUIREMENTS WITH EQUIPMENT MANUFACTURERS BEFORE INSTALLING BACKING AND BLOCKING

5. PROVIDE CONTINUOUS BLOCKING/BACKING IN ALL WALLS, FULL WIDTH:
AT ALL CEILING LINES
AT LOCATIONS SHOWN ON BUILDING & WALL SECTIONS
AT LOCATIONS REQUIRED BY STRUCTURAL DRAWINGS
AS REQUIRED BY SPECIFICATIONS
AS REQUIRED BY CODE
AS REQUIRED FOR BACKING

6. CONTRACTOR TO PROVIDE STUD WALL BACKING PLANS FOR ALL WALLS WITH WALL MOUNTED EQUIPMENT INCLUDING BUT NOT LIMITED TO: RAILINGS, DOORS, AND HOLD-OPENS, VISUAL DISPLAY BOARDS (MARKER AND TACK BOARDS), TOILET PARTITIONS, SIGNAGE, FIRE EXTINGUISHER CABINETS AND BRACKETS, TOILET, BATH AND ROOM ACCESSORIES, MISC. SPECIALTIES AND EQUIPMENT, ELECTRICAL OUTLETS, TOILET PARTITIONS, CASEWORK, DOOR STOPS, DRINKING FOUNTAINS, ETC. INCLUDE ITEMS TO BE MOUNTED IN CONTRACT AS WELL AS NIC, OFCI AND OFOI ITEMS, TYP. AT LOCATIONS AS SHOWN ON DRAWINGS & SPEC SECTION 05400 AND 09260.

7. WHERE EQUIPMENT OR CABINETS ARE SHOWN TO BE RECESSED IN OR MOUNTED ON FIRE-RATED PARTITIONS, THE FINISH SURFACE SHALL BE MADE TO RUN CONTINUOUSLY BEHIND AND AROUND SUCH EQUIPMENT OR CABINETS BEFORE THEIR INSTALLATION TO MAINTAIN FIRE RATING OR IN LIEU THEREOF, BACK PLASTER OR PROTECT BY OTHER APPROVED MEANS ALL PANELS, FIXTURES AND OTHER PENETRATIONS IN PARTITIONS AND CEILINGS IN ORDER TO MAINTAIN REQUIRED FIRE SEPARATIONS AND RATED ASSEMBLIES AS APPROVED BY THE BUILDING OFFICIAL.

8. IN WALLS WHERE SOUND INSULATION IS REQ'D , IT SHALL BE CONTINUOUS FOR THE FULL LENGTH AND FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE.

9. STUD WALLS WHICH ARE NOT CONTINUOUS UP TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL HAVE THE TOP OF THE WALL BRACED. SEE STRUCTURAL DRAWINGS. WRAP ALL PLATES AND BRACING AS REQUIRED TO ACHIEVE FIRE RATING OF WALL, IF RATED.

L. AT EXTERIOR WALL DOOR OPENINGS TYPICALLY BLOCK OUT TOP OF STEM WALL TO DEPTH OF BOTTOM OF THE INTERIOR SLAB (OR AS DETAILED ON THE STRUCTURAL DRAWING) AND CONTINUE INTERIOR FLOOR SLAB OUT OVER STEM WALL, UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS OR DETAILS. INSTALL 24" LONG #4 REBAR, 1/2 OF LENGTH IN INTERIOR SLAB AND 1/2 OF LENGTH INTO EXTERIOR SLAB; USE (3) BARS PER 3'-0" WIDE DOOR, EQUALLY SPACED, UNLESS OTHERWISE NOTED. ALSO SEE STRUCTURAL DRAWINGS AND TYPICAL THRESHOLD DETAIL AT THESE LOCATIONS.

M. DIMENSIONS:

<u>INTERIOR WALLS:</u>

1. WOOD STUD - INTERIOR WALL DIMENSIONS ARE TAKEN TO CENTERLINE OF COLUMN, CENTERLINE OF WALL, OR FACE OF STUD (FOS), UNO.

<u>EXTERIOR WALLS:</u>
1. WOOD STUD - ALL WOOD STUD WALL DIMENSIONS ARE TAKEN TO CENTERLINE OF COLUMN, CENTERLINE OF WALL, OR FACE OF STUD (FOS), UNO.

2. CONCRETE / MASONRY - CONCRETE FOUNDATION AND CONCRETE MASONRY UNIT WALL DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE (FOC), UNO.

N. WALL THICKNESS AND ALIGNMENT:

1. CONTRACTOR SHALL VERIFY AND COORDINATE WALLS AND OTHER FRAMING THAT REQUIRE A NON-TYPICAL WALL THICKNESS DUE TO STRUCTURAL, ELECTRICAL, MECHANICAL, EQUIPMENT, OR OTHER REQUIREMENTS.

2. ON A CONTINUOUS WALL SURFACE WHERE CONSTRUCTION INVOLVES MORE THAN ONE MATERIAL FINISH OR MATERIAL THICKNESS, ALIGN FACE OF FINISH, UNO.

O. GYPSUM WALL BOARD (GB) AND FINISHES:

1. PROVIDE CASING BEADS AT GB EDGES WHEREVER EDGES TERMINATE AGAINST A DIFFERENT MATERIAL, UNO PROVIDE CORNER BEADS AT ALL GB CORNERS, TYPICAL TO ALL SECTIONS OF THIS DRAWING SET.

2. SEE ROOM FINISH SCHEDULE, NOTES AND SPECIFICATIONS FOR TYPES OF GB TO BE USED (I.E. WATER RESISTANT), GENERALLY, USE WATER RESISTANT GYPSUM BOARD ON WALLS OF ALL RESTROOMS, TOILET ROOMS, SHOWERS, KITCHEN AND AT WALLS BEHIND OR ADJACENT TO MOP SINKS, UNLESS NOTED OTHERWISE.

3. FOR ALL LOCATIONS IN ATTICS AND OTHER LOCATIONS NOT EXPOSED TO VIEW WHERE FIRE OR SOUND RATING IS REQUIRED AND WHERE INDICATED ON FINISH SCHEDULE, FIRE TAPE AND MUD ONLY AS REQUIRED TO MEET FIRE AND SOUND RATING REQUIRED, UNLESS NOTED OR SPECIFIED OTHERWISE. NOTE THAT FIRE TAPE AND MUD MAY BE SCHEDULED EVEN WHERE NOT REQUIRED BY CODE, SEE ROOM FINISH SCHEDULE.

4. FOR ALL WALL TYPES, PROVIDE INTERIOR FINISHES PER ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS.

5. FLOOR AND CEILING FINISHES AND WALL BASES ARE NOT TYPICALLY SHOWN ON WALL SECTIONS OR WALL TYPES, SEE FLOOR PLANS, ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS.

6. SEE SPECIFICATIONS FOR COMPLETE DESCRIPTION OF TYPES OF GB.

7. INSTALL EXTRA LAYER OF GYP OR PLYWOOD ON THE SAME SIDE OF WALL AS WALL TYPE SYMBOL IN ALL LOCATIONS

P. FIRESTOPPING: CONTRACTOR IS RESPONSIBLE TO FIRE CAULK/ SEAL ALL FIRE RATED ASSEMBLIES SMOKE PARTITION, ALL PENETRATIONS OF 2ND AND MECHANICAL ATTIC FLOOR ASSEMBLIES, ALL 1-HOUR ASSEMBLIES, ALL SMOKE PARTITIONS, AND OTHER ASSEMBLIES REQUIRED BY CODE TO BE SEALED AND PROVIDE CODE APPROVED FIRESTOPPING AT ALL PENETRATIONS WHETHER OR NOT THE PENETRATION IS SPECIFICALLY DETAILED OR SPECIFIED - <u>ALL TRADES INCLUDED</u>. "PENETRATIONS" SHALL BE DEFINED PER THE CURRENT EDITION OF THE IBC, OR OTHER GOVERNING CODE(S), AND AT A MINIMUM SHALL INCLUDE ALL CABLES, PIPES, CONDUITS, DUCTS, COLUMNS, BEAMS AND OTHER PENETRATING ITEMS. SEE SPECIFICATIONS SECTION " THROUGH PENETRATION FIRESTOP SYSTEMS" FOR FURTHER DEFINITION. ALL OTHER PENETRATIONS OF BUILDING ASSEMBLIES SHALL BE SEALED FOR SOUND CONTROL PURPOSES BY GB AND TAPE, SEALANT, OR OTHER APPROVED METHODS. ALL COSTS FOR FIRE-RATED AND NON-FIRE-RATED SEALING SHALL BE INCLUDED IN THE BID. ALSO SEE PROJECT INFORMATION AND CODE REVIEW SHEETS.

Q. SOUND CONTROL: AT WALLS ADJOINING POTENTIAL NOISY SPACES SUCH AS MECHANICAL ROOMS, ELEVATORS, ELEVATOR EQUIPMENT ROOMS, GATHERING ROOMS, RESTROOMS, ETC., AND WHERE AN STC RATING IS INDICATED ON THE WALL TYPE ASSEMBLY, COMPLY WITH THE FOLLOWING (NOTE THAT MANY OF THESE REQUIREMENTS MAY BE REQUIRED BY OTHER PORTIONS OF THE DRAWINGS AND SPECIFICATIONS REGARDLESS OF THE USE OF AN 'S' MODIFIER OR NOT):

1. CAULK AND SEAL WALLS AIRTIGHT AT THE TOP AND BOTTOM PER ASTM C919.

2. SEAL THE BACKSIDE OF ELECTRICAL BACKBOXES W/ FIRE PUTTY PADS.

3. APPLY ACOUSTICAL SEALANT AT THE BASE AND FIRST LAYER OF GB ON BOTH SIDES OF EACH FULL HEIGHT WALL ASSEMBLY TO PREVENT SOUND LEAKAGE.

4. CAULK AIRTIGHT W/ ACOUSTICAL SEALANT ALL WALL PENETRATIONS INCLUDING OUTLETS, DUCTS, PIPING AND CONDUIT. THIS APPLIES TO ALL LAYERS OF THE WALL ASSEMBLY INCLUDING EACH LAYER OF GB.

5. EXTEND GB CONTINUOUSLY UP TO FLOOR OR ROOF SHEATHING ABOVE AND SEAL AIRTIGHT. FRAME GB AROUND ALL STRUCTURAL BEAMS, JOISTS, ETC.

R. EXCAVATION & FILL: ARCHITECTURAL DRAWINGS DO NOT ILLUSTRATE THE CONCEPTS OF EXISTING SOIL CONDITIONS

1. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR CONCRETE REINFORCING AND OTHER STRUCTURAL REQUIREMENTS AND, STRUCTURAL AND CIVIL DRAWINGS FOR RETAINING WALL REQUIREMENTS.

2. DETAILS ARE TYPICAL CONDITIONS.CONTRACTOR SHALL ADAPT TYPICAL DETAILS FOR VARIANT CONDITIONS. FOR VARIANT CONDITIONS TYPICAL DETAILS SHALL BE USED FOR PERFORMANCE CRITERIA.

3. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MATERIALS BELOW SLABS. COORDINATE CIVIL AND ARCHITECTURAL DETAILING WITH RESPECT TO PERIMETER FOUNDATION DRAINAGE SYSTEMS, RAINLEADER/DOWNSPOUT LOCATIONS AND TIGHTLINE CONNECTIONS.

4. COORDINATE ALL FINISHED FLOOR ELEVATIONS TO MATCH EXISTING FINISH FLOOR ELEVATIONS EXCEPT AS NOTED. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IF/WHEN DISCREPANCIES ARE IDENTIFIED PRIOR TO PROCEEDING.

S. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING DETAILS.

T. INSULATION IDENTIFICATION: AN IDENDITICACTION MARK SHALL BE APPLIED TO ALL INSULATION MATERIALS. INSTALL INSULATION SUCH THAT MARK IS READILY OBSERVABLE DURING INSPECTION.

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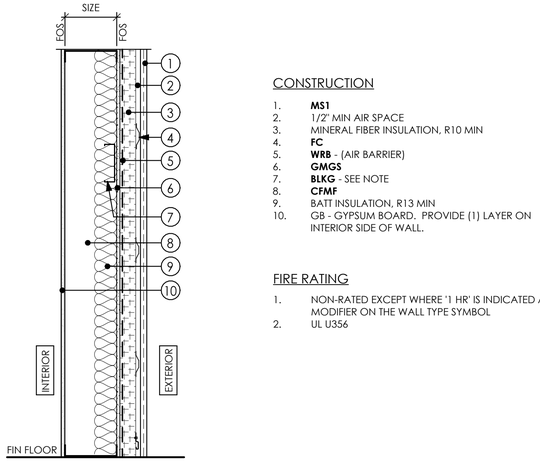
Sheet Title
GENERAL NOTES TO THE WALL TYPES

A30.01

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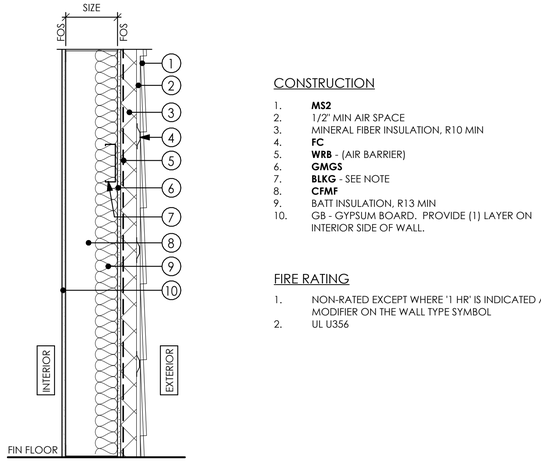
CONSTRUCTION

1. **MS1**
2. 1/2" MIN AIR SPACE
3. MINERAL FIBER INSULATION, R10 MIN
4. **FC**
5. **WRB** - (AIR BARRIER)
6. **GMGS**
7. **BLKG** - SEE NOTE
8. **CFMF**
9. BATT INSULATION, R13 MIN
10. GB - GYPSUM BOARD. PROVIDE (1) LAYER ON INTERIOR SIDE OF WALL.

FIRE RATING

1. NON-RATED EXCEPT WHERE '1 HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL
2. UL U356

EXTERIOR WALL TYPE _S/MS1



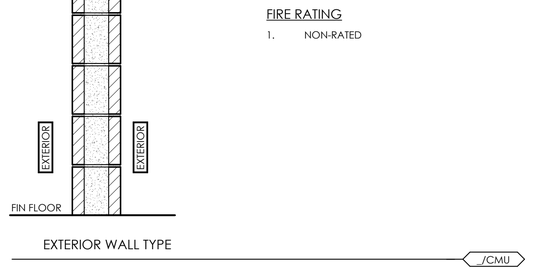
CONSTRUCTION

1. **MS2**
2. 1/2" MIN AIR SPACE
3. MINERAL FIBER INSULATION, R10 MIN
4. **FC**
5. **WRB** - (AIR BARRIER)
6. **GMGS**
7. **BLKG** - SEE NOTE
8. **CFMF**
9. BATT INSULATION, R13 MIN
10. GB - GYPSUM BOARD. PROVIDE (1) LAYER ON INTERIOR SIDE OF WALL.

FIRE RATING

1. NON-RATED EXCEPT WHERE '1 HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL
2. UL U356

EXTERIOR WALL TYPE _S/MS2



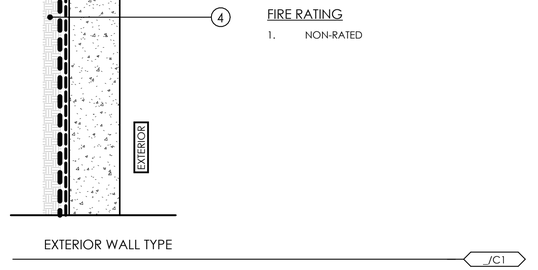
CONSTRUCTION

1. **BV**
2. AIR SPACE
3. MINERAL FIBER INSULATION, R10 MIN
4. **WRB** - (AIR BARRIER)
5. **GMGS**
6. **BLKG** - SEE NOTE
7. **CFMF**
8. BATT INSULATION, R13 MIN
9. MASONRY ANCHOR
10. **SAM TARGET**
11. **GB** - PROVIDE (1) LAYER ON INTERIOR SIDE OF WALL

FIRE RATING

1. NON-RATED EXCEPT WHERE '1 HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL
2. UL U356

EXTERIOR WALL TYPE _S/BV1



CONSTRUCTION

1. **BV**
2. **WRB**
3. **CMU**

FIRE RATING

1. NON-RATED EXCEPT WHERE '1 HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL
2. UL U356

EXTERIOR WALL TYPE _M/BV1

CONSTRUCTION

1. CMU - CONCRETE MASONRY UNIT

FIRE RATING

1. NON-RATED

EXTERIOR WALL TYPE _/CMU

CONSTRUCTION

1. CONCRETE RETAINING WALL
2. WATERPROOFING
3. DRAINAGE MAT
4. GRADE, SEE CIVIL DRAWINGS

FIRE RATING

1. NON-RATED

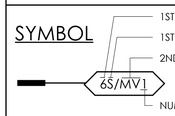
EXTERIOR WALL TYPE _/C1

SHEET NOTES

A. SEE SHEET A30.01 FOR GENERAL NOTES TO WALL TYPES, BUILDING AND WALL SECTIONS.

EXTERIOR WALL TYPE LEGEND

SYMBOL



STUD SIZE

NOMINAL DIMENSION OF BASIC WALL WOOD STUD OR MASONRY AS CALLED OUT ON DRAWINGS, LESS FINISHES; 2,4,6, ETC.
NUMBER IS ACTUAL SIZE FOR CONCRETE AND STEEL STUDS, LESS FINISHES

WALL HEIGHT

ALL WALLS ARE FULL HEIGHT FROM POINT OF ORIGIN TO BOTTOM OF FLOOR SHEATHING OR ROOF DECKING/SHEATHING UNLESS NOTED OTHERWISE, SEE BUILDING AND WALL SECTIONS. WALL ASSEMBLIES MUST BE CONSTRUCTED FULLY BETWEEN ALL FLOOR AND ROOF JOIST

CONSTRUCTION

AIR SPACE:
PROVIDE CAVITY SPACE TO ALLOW AIR TO CIRCULATE BETWEEN EXTERIOR FINISH AND SUBSTRATE. SEE DETAILS FOR WIDTH OF CAVITY AND METHOD(S) TO ALLOW AIR CIRCULATION AND WATER DRAINAGE FROM CAVITY.
NATIVE AIR MUST CONFORM TO EPA STANDARDS :)

B EXISTING BRICK

BATT INSULATION
FIBERGLASS BATT INSULATION, SEE WALL TYPE FOR R-VALUE

BLKG **BLOCKING AND OR BACKING:**
PROVIDE BLOCKING/ BACKING AS REQUIRED BY CODE AND PER GENERAL NOTES, SPECIFICATIONS, AS DETAILED, AT CEILING LINE AND PER REQ. ON A30.01. SEE NOTE BELOW REGARDING FIRE BLOCKING

BV **BRICK VENEER:**
SEE EXTERIOR ELEVATION AND DETAILS FOR LOCATION/EXTENTS, COURSING AND BOTH VERTICAL AND HORIZONTAL EXPANSION JOINTS. PROVIDE **BRICK VENEER ANCHORS** AT HOIZONTAL AND VERTICAL SPACING PER SPECIFICATIONS.

C CAST IN PLACE CONCRETE, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

CH CH-STUDS, COLD FORMED METAL CH SHAFT WALL STUDS

CFMF **COLD FORMED METAL FRAMING (STEEL STUDS):** COLD FORMED METAL FRAMING - SEE STRUCTURAL DRAWINGS FOR SPACING, GAUGE AND ADDITIONAL FRAMING AND BACKING/BLOCKING REQUIREMENTS. WHERE SPACING/GAUGE NOT IDENTIFIED, SPACING IS 16" O.C. @ 20 GAUGE.

CMU CONCRETE MASONRY UNIT

FC **FURRING CHANNEL:**
MANUFACTURED 18 GAUGE PERFORATED METAL FURRING CHANNEL HORIZONTALLY ORIENTED, SPACING IS 24" OC MAX SPACING

GB **GYPSUM BOARD:**
PROVIDE 5/8" TYPE 'X' GB
SEE NOTE O. ON A30.01 FOR ADDITIONAL REQUIREMENTS

GMGS **GLASS MAT GYPSUM SHEATHING:** PROVIDE 5/8" TYPE 'X' GMGS

MS1 **VERTICAL METAL SIDING**
12" WIDTH, VERTICALLY ORIENTED, FLUSH METAL SIDING, SEE EXTERIOR ELEVATIONS FOR LAYOUT, FASTEN PER MANUFACTURER'S RECOMMENDATIONS

MS2 **METAL TILE SIDING**
SHINGLED METAL TILE SIDING PANELS, SEE EXTERIOR ELEVATIONS FOR LAYOUT, FASTEN PER MANUFACTURER'S RECOMMENDATIONS

PC **PRECAST CONCRETE**
PRECAST CONCRETE, SEE EXTERIOR ELEVATIONS FOR LAYOUT

SAM TARGET
PROVIDE A 4" X 4" MIN SIZE SQUARE SAM "TARGET" PATCH BACKING BETWEEN WRB AND EACH BRICK VENEER TIE

WRB **WEATHER RESISTANT BARRIER (AIR BARRIER):**
SELF-ADHERED

Z-FURRING:
18 GA 4" WIDE X 5" DEEP X 7" LONG
VERT SEGEMENTS INSTALLED 16" OC VERTICALLY @ EA STUD, FASTEN TO STUD W/ (2) #10 FASTENERS

MASS WALLS

EXTERIOR WALL TYPES, WITH THE MATERIALS LISTED BELOW ARE MASS WALLS PER WESC 402.2.3
WALL MASS: BRICK @ 4" MIN THICKNESS = 40PSF CMU @ 6" MIN = 58PSF
CONCRETE @ 8" MIN THICKNESS= 96PSF

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Client
ABERDEEN SD #5

Project
HARBOR LEARNING CENTER
2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates
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100% Schematic Design
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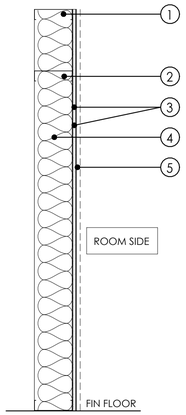
Sheet Title
EXTERIOR WALL TYPES

A30.02

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CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (1) LAYER ON EXTERIOR SIDE OF WALL.
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

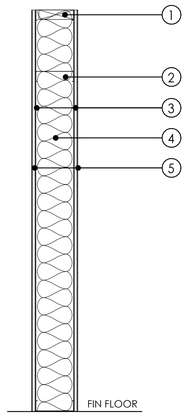
FIRE RATING

1. NON-RATED

SOUND

1. NON-RATED

INTERIOR WALL TYPE _6S/1



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (1) LAYER EACH SIDE OF WALL.
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

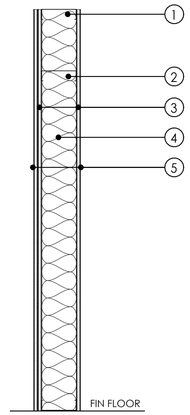
FIRE RATING

1. NON-RATED, EXCEPT WHERE '1HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL.

SOUND

1. STC 35 RATED ASSEMBLY. PROVIDE SOUND CONTROL AS REQUIRED BY NOTE Q ON A30.01

INTERIOR WALL TYPE _6S/2



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (2) LAYERS ON SAME SIDE OF WALL AS WALL TYPE SYMBOL AND (1) LAYER ON THE OTHER SIDE. AT RESTROOMS, ADD 2ND LAYER OF GB ON THE RESTROOM SIDE
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

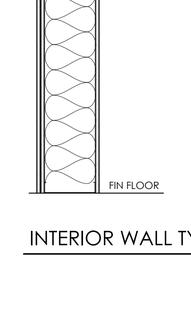
FIRE RATING

1. NON-RATED, EXCEPT WHERE '1HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL.

SOUND

1. STC 40 RATED ASSEMBLY. PROVIDE SOUND CONTROL AS REQUIRED BY NOTE Q ON A30.01

INTERIOR WALL TYPE _6S/3



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (2) LAYERS ON SAME SIDE OF WALL AS WALL TYPE SYMBOL AND (1) LAYER ON THE OTHER SIDE. AT RESTROOMS, ADD 2ND LAYER OF GB ON THE RESTROOM SIDE
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

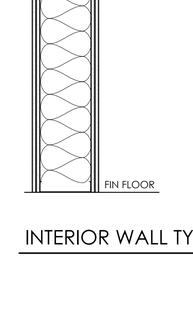
FIRE RATING

1. NON-RATED, EXCEPT WHERE '2HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL

SOUND

1. STC 40 RATED ASSEMBLY. PROVIDE SOUND CONTROL AS REQUIRED BY NOTE Q ON A30.01

INTERIOR WALL TYPE _6S/4



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (1) LAYER ON ROOM SIDE OF WALL. PROVIDE A SECOND LAYER OF GB AT RESTROOMS ON RESTROOM SIDE
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

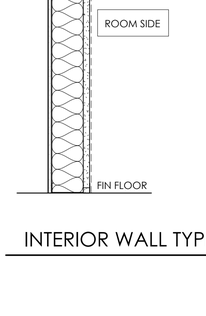
FIRE RATING

1. NON-RATED

SOUND

1. NON-RATED

INTERIOR WALL TYPE _8S/1



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (1) LAYER EACH SIDE OF WALL.
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

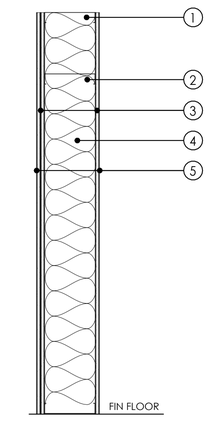
FIRE RATING

1. NON-RATED, EXCEPT WHERE '1HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL.

SOUND

1. STC 35 RATED ASSEMBLY. PROVIDE SOUND CONTROL AS REQUIRED BY NOTE Q ON A30.01

INTERIOR WALL TYPE _8S/2



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (2) LAYERS ON SAME SIDE OF WALL AS WALL TYPE SYMBOL AND (1) LAYER ON THE OTHER SIDE. AT RESTROOMS, ADD 2ND LAYER OF GB ON THE RESTROOM SIDE
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

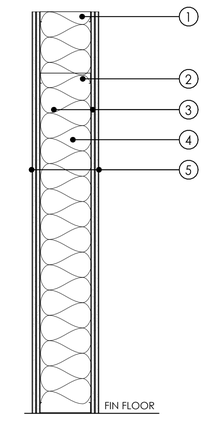
FIRE RATING

1. NON-RATED, EXCEPT WHERE '1HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL.

SOUND

1. STC 40 RATED ASSEMBLY. PROVIDE SOUND CONTROL AS REQUIRED BY NOTE Q ON A30.01

INTERIOR WALL TYPE _8S/3



CONSTRUCTION

1. S - STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (2) LAYERS ON SAME SIDE OF WALL AS WALL TYPE SYMBOL AND (1) LAYER ON THE OTHER SIDE. AT RESTROOMS, ADD 2ND LAYER OF GB ON THE RESTROOM SIDE
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

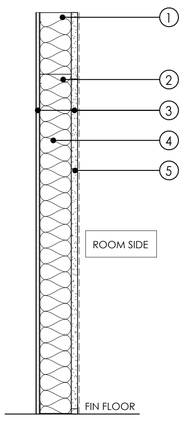
FIRE RATING

1. NON-RATED, EXCEPT WHERE '2HR' IS INDICATED AS A MODIFIER ON THE WALL TYPE SYMBOL

SOUND

1. STC 40 RATED ASSEMBLY. PROVIDE SOUND CONTROL AS REQUIRED BY NOTE Q ON A30.01

INTERIOR WALL TYPE _8S/4



CONSTRUCTION

1. CH - CH STEEL STUDS
2. BLKG - BACKING/BLOCKING
3. GB - GYPSUM BOARD. PROVIDE (5/8") LAYER ON ROOM SIDE OF WALL. PROVIDE A SECOND LAYER OF (1") GB ON SHAFT SIDE.
4. SOUND BATT INSULATION
5. FINISH AS SCHEDULED (NOT SHOWN)

FIRE RATING

1. NON-RATED

SOUND

1. NON-RATED

INTERIOR WALL TYPE CH6/2

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Client

ABERDEEN SD #5

Project

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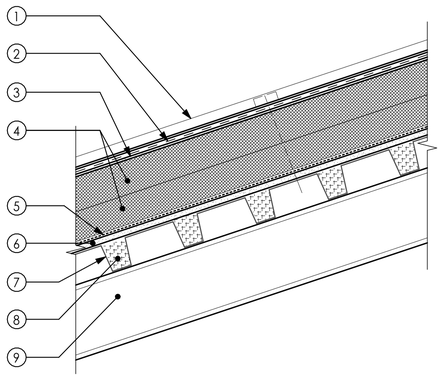
INTERIOR WALL TYPES

A31.01

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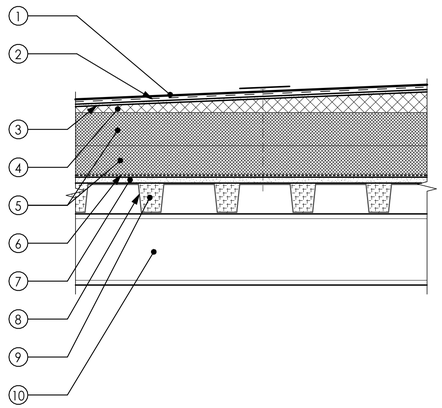
ASSEMBLY

1. STANDING SEAM METAL ROOF
2. WATERPROOF MEMBRANE
3. COVERBOARD 1/4" THICKNESS
4. RIGID INSULATION (R38 MIN)
5. INTERIM MEMBRANE **(AIR BARRIER)**
6. COVERBOARD 5/8" THICKNESS
7. METAL DECKING, SEE STRUCTURAL DRAWINGS
8. MINERAL WOOL INSULATION AT DECK FLUTES
9. ROOF FRAMING, SEE STRUCTURAL DRAWINGS
10. METAL ROOF ATTACHMENT THROUGH METAL DECKING

FIRE RATING

1. NON-RATED

ROOF TYPE 'A' - STANDING SEAM METAL ROOF



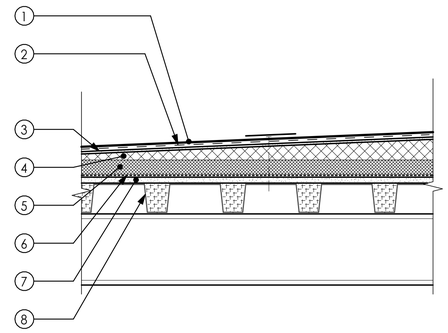
ASSEMBLY

1. SINGLE PLY MEMBRANE ROOFING, MECHANICALLY ATTACHED
2. WATERPROOF MEMBRANE
3. COVERBOARD, 1/4" THICKNESS
4. RIGID INSULATION SLOPE TO DRAIN
5. RIGID INSULATION, (R38 MIN)
6. INTERIM MEMBRANE **(AIR BARRIER)**
7. COVERBOARD, 5/8" THICKNESS
8. METAL DECKING, SEE STRUCTURAL DRAWINGS
9. MINERAL WOOL INSULATION AT DECK FLUTES
10. ROOF FRAMING, SEE STRUCTURAL DRAWINGS

FIRE RATING

1. NON-RATED

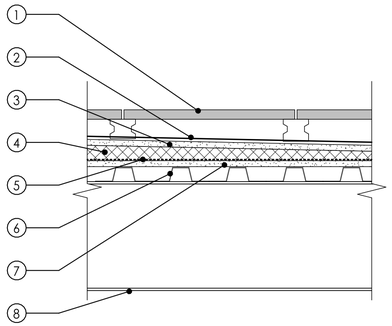
ROOF TYPE 'B' - SINGLE PLY MEMBRANE ROOF



ASSEMBLY

1. SINGLE PLY MEMBRANE ROOFING, MECHANICALLY ATTACHED
2. WATERPROOF MEMBRANE
3. COVERBOARD, 1/4" THICKNESS
4. RIGID INSULATION SLOPE TO DRAIN
5. RIGID INSULATION, 1 1/2" MIN THICKNESS
6. INTERIM MEMBRANE **(AIR BARRIER)**
7. COVERBOARD, 5/8" THICKNESS
8. METAL DECKING, SEE STRUCTURAL DRAWINGS
9. MINERAL WOOL INSULATION AT DECK FLUTES
10. ROOF FRAMING, SEE STRUCTURAL DRAWINGS

ROOF TYPE 'C' - SINGLE PLY MEMBRANE ROOF CANOPY



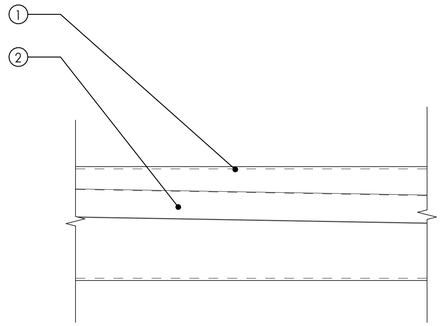
ASSEMBLY

1. PRECAST CONCRETE PAVERS IN PEDESTAL INSTALLATION, SEE COLOR & MATERIAL SCHEDULE
2. SINGLE PLY MEMBRANE ROOFING, MECHANICALLY ATTACHED
3. 1/2" FACTORY PRIMED COVER BOARD
4. (1) LAYER TAPERED POLYISO RIGID INSULATION SLOPED AT 1/4"/12" W/ 1" MINIMUM THICKNESS
5. INTERIM ROOFING MEMBRANE/VAPOR BARRIER
6. METAL DECKING, SSD
7. 1/2" SUBSTRATE BOARD
8. JOISTS, SSD, FINISH PER REFLECTED CEILING PLAN, TYP

FIRE RATING

1. NON-RATED

ROOF TYPE 'D' - PAVED ROOF DECK



ASSEMBLY

1. HSS FRAMING, SEE STRUCTURAL DRAWINGS
2. STRUCTURAL STANDING SEAM METAL ROOFING SPANNING BETWEEN STEEL MEMBERS

FIRE RATING

1. NON-RATED

ROOF TYPE 'E' - AWNING/CANOPY

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Client

ABERDEEN SD #5

Project

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HARBOR LEARNING CENTER
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Issue & Revision Dates

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100% Schematic Design

Not for Construction

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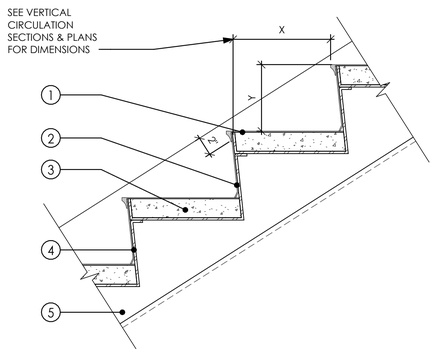
ROOF TYPES

A40.01

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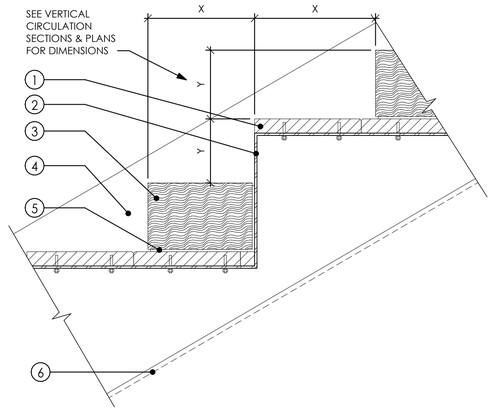
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ASSEMBLY

1. RUBBER STAIR TREAD, FINISH PER FINISH SCHEDULE
2. RUBBER RISER, FINISH PER FINISH SCHEDULE
3. CIP CONCRETE STAIR TREADS, FINISH PER FINISH SCHEDULE
4. STEEL PAN AND RISERS, MATCH STRINGER FINISH
5. STEEL STRINGER, FINISH PER FINISH SCHEDULE

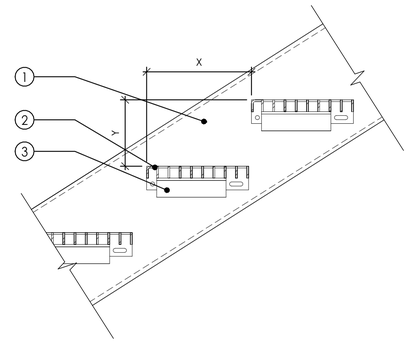
STAIR TYPE 'A'



ASSEMBLY

1. 2" THICK WOOD STAIR TREADS,
2. STEEL PANS & RISERS, MATCH STRINGER FINISH.
3. MILLED LOG TREAD
4. STEEL STRINGERS AT EACH SIDE, PAINT ALL STEEL SURFACES.
5. SEALANT
6. CEILING WHERE OCCURS, SEE REFLECTED CEILING PLANS

STAIR TYPE 'B'



ASSEMBLY

1. STEEL HSS PRE-ENGINEERED STRINGER BOTH SIDES PAINTED W/HPC, SSD
2. GALV STEEL ADA COMPLIANT BAR GRATING STAIR TREADS, MECHANICALLY FASTENED TO SUPPORT ANGELS, SSD
3. GALV SUPPORT ANGLE BEYOND, SSD.

STAIR TYPE 'C'

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Sheet Title
STAIR TYPES

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	Room - TCF Ceiling Material	WALLS				NOTES / REMARKS
					NORTH	EAST	SOUTH	WEST	
463	1ST FLR CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
1	STUDENT TOILET STALLS	CT	CTW	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
1010	STUDENT TOILET STALLS	CT	CTW	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
11C	1ST FLR CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
10C	1ST FLR CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
140	1ST FLR CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
10E	ADMIN CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
151B	AV	RESF	RB		GB-PT	GB-PT	GB-PT	GB-PT	
144A	BARIATRIC TOILET	CT	CT	GB	CT	CT	CT	CT	CTW FULL HEIGHT
146	CNA LAB	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
150	COMMONS/ CAFETERIA	RESF	RB		GB-PT/W	GL	GB-PT/W	GL	
105	CONFERENCE	CPT	RB		GB-PT	GB-PT	GB-PT	GB-PT	
112	CONFERENCE / MOTHERS ROOM	CPT	RB		GB-PT	GB-PT	GB-PT	GB-PT	
11B	CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
103	COUNSELOR	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
144	CTE SHARED CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
133	CUSTODIAL	CT	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	FRP @ MOP SINK
153A	DRY STORAGE	VCT	RB	GB-PT	FRP	FRP	FRP	FRP	FRP FULL HEIGHT
140	ELECTRICAL	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	No ceiling specified
136	ELEVATOR EQUIPMENT	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	not specified in ed spec
134	FAMILY RESTROOM	CT	CTW	CT	CT	CT	CT	CT	CTW FULL HEIGHT
162A	FIRE RISER	CONC-S	RB	EXP	GB-PT	GB-PT	GB-PT	GB-PT	not specified in ed spec
144	FLEX CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
120B	GHA TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
120	GRAYS HARBOR ACADEMY	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
120A	GRAYS HARBOR CONFERENCE	CPT	RB	ACT	GB	GB	GB	GB	
151	GYM	RAF	MDFW	EXP	GB-PT	GB-PT	GB-PT	GB-PT	8' WAINSCOTTING/CRASH PADS
101	HEALTH	RESF	RB	ACT	VWP	VWP	VWP	VWP	VWP FULL HEIGHT
101A	HEALTH TOILET	VCT	NA	ACT	CT	CT	CT	CT	
116	INFANT	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
104	ITINERANT OFFICE	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
105	ITINERANT OFFICE	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
153	KITCHEN & SCULLERY	RESF	RB	ATC (CLEANABLE)	FRP	FRP	FRP	FRP	FRP FULL HEIGHT
153B	KITCHEN STAFF TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
143	LIBRARY	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
143A	LIBRARY WORK ROOM	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
10D	LOBBY 1								
160	MAIN CUSTODIAL	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	FRP @ MOP SINK
161	MAIN ELECTRICAL	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
141	MAKER SPACE	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
162	MECHANICAL ROOM	CONC-S	RB	GB-PT	GB	GB	GB	GB	
04	OPEN DOORS STAIR			ACT	GB-PT	GB-PT	GB-PT	GB-PT	
151A	PE OFFICE	CONC-S	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
151C	PE STORAGE	CONC-S	RB	EXP	GB-PT	GB-PT	GB-PT	GB-PT`	
142	PHLEBOTOMY LAB	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
107A	PHONE/MOTHERS	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
114	PRESCHOOL	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
114A	PRESCHOOL TOILET	CT	CTW		GB-PT	GB-PT	GB-PT	GB-PT	CTW FULL HEIGHT
102	PRINCIPAL	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
100	RECEPTION	CPT	RB		GB-PT	GB-PT	GB-PT	GBG-PT	
135D	RESTROOM STALL	CT	CT	GB	GB	GB	GB	GB	
135C	RESTROOM STALL	CT	CT	GB	GB	GB	GB	GB	
135B	RESTROOM STALL	CT	CT	GB	GB	GB	GB	GB	
135A	RESTROOM STALL	CT	CT	GB	GB	GB	GB	GB	
10B	Room								
110	SH WORK/OFFICE	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
11A	SNUG HARBOR VESTIBULE	Walk-off mat/4" REM	MDFW		GB-PT	GB-PT	GB-PT	GB-PT	MDFW FULL HEIGHT
115	SNUG KITCHEN	RESF	RB	ATC (CLEANABLE)	FRP	FRP	FRP	FRP	FRP FULL HEIGHT
107	STAFF LOUNGE	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
111	STAFF TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
108	STAFF TOILET 1	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
131	STAFF TOILET 2	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
106	STAFF WORK ROOM	RESF	RB		GB-PT	GB-PT	GB-PT	GB-PT	
03	STAIR 1		RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
02	STAIR 2		RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
146A	STORAGE	RESF	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
117	STORAGE	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
132	STUDENT TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
152	TABLE & CHAIR STORAGE	CONC-S	RB	EXP	GB-PT	GB-PT	GB-PT	GB-PT	

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	Room - TCF Ceiling Material	WALLS				NOTES / REMARKS
					NORTH	EAST	SOUTH	WEST	
113	TODDLER	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
113A	TODDLER TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
10A	VESTIBULE	Walk-off mat/4" REM	MDFW	GB-PT	GB-PT/W	GB-PT/W	GB-PT/W	GB-PT/W	MDFW FULL HEIGHT
206	CLASSROOM 1	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
204	CLASSROOM 2	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
22A	CORRIDOR	VCT	MDFW	ACT	GB-PT	GB-PT	GB-PT	GB-PT	MDFW 3'-8" HIGH
222	CTE BUSINESS MARKETING	RESF	RB		GB-PT	GB-PT	GB-PT	GB-PT	
232	CTE STORAGE	CONC-S	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
234	CUSTODIAL	CT	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	FRP @ MOP SINK
200A	ELECTRICAL	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
201	FOOD BANK	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
216	GED CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
212	GED CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
245	HS CLASSROOM	RESF	RB		GB-PT	GB-PT	GB-PT	GB-PT	
244	HS CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
241	JH CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
243	JH CLASSROOM	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
220	LIFE LAB	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	FRP FULL HEIGHT @ COOKING WALLS
221A	MARKET STORAGE	RESF	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
200	MDF	CONC-S	RB		GB-PT	GB-PT	GB-PT	GB-PT	No ceiling specified
592	MECHANICAL ATTIC	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	
21A	OD CORRIDOR	VCT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
213	OD TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
205	OFFICE	CPT	RB	ACT	GB	GB	GB	GB	
204A	OFFICE	CPT-1	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
215	OFFICE	CPT-1	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
210	OPEN DOORS LOBBY	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
235E	RESTROOM STALL								
235D	RESTROOM STALL								
235A	RESTROOM STALL								
24	Room								
22B	Room								
203	SATTELLITE WORK	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
242	SCIENCE CLASSROOM	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	RFP @ EMERGENCY SHOWER
242A	SCIENCE PREP	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	RFP @ EMERGENCY SHOWER
231	STAFF TOILET 3	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
202	STAFF TOILET 4	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
221	STUDENT STORE	RESF	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
233	STUDENT TOILET	SV	CTW	GB-PT	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	GB-PT/CTW	5' CTW
205A	TEST	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
211	TEST OFFICE	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
214	TEST OFFICE	CPT	RB	ACT	GB-PT	GB-PT	GB-PT	GB-PT	
535	MECHANICAL ATTIC	CONC-S	RB	GB-PT	GB-PT	GB-PT	GB-PT	GB-PT	

SHEET NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.
B. WALL TYPES: SEE FLOOR PLANS ON A2 SERIES SHEETS FOR WALL TYPE CALLOUTS
C. GENERAL NOTES: SEE FLOOR PLAN GENERAL NOTES ON A2 SERIES SHEETS AND WALL & BUILDING SECTION AND WALL TYPE NOTES ON A31 AND A32 SERIES SHEETS FOR ADDITIONAL INFORMATION.
D. CEILINGS: SEE REFLECTED CEILING PLANS ON A4 SERIES SHEETS FOR CEILING HEIGHTS, FINISHES, AND SUSPENDED ACOUSTIC BAFFLES (SAB). SEE A35 SERIES SHEETS FOR CEILING DETAILS.
E. FLOOR AND BASE DETAILS: SEE A22 SERIES SHEETS FOR DETAILS.
F. COLOR SCHEDULE: SEE A70 SERIES SHEETS.
G. VARYING FINISH MATERIALS: SEE PLANS AND INTERIOR ELEVATIONS FOR LOCATION AND EXTENT OF MATERIALS AND FINISHES WHERE MORE THAN ONE MATERIAL OR FINISH IS SCHEDULED. ALIGN FACE OF FINISH SURFACES UNLESS NOTED OTHERWISE.
H. BACKING PANELS: PROVIDE PLYWOOD BACKING PANELS FOR TELEPHONE AND ELECTRICAL PANELS AND EQUIPMENT; PAINT WHITE. COORDINATE WITH ELECTRICAL & TELECOMMUNICATION DRAWINGS AND SPECIFICATIONS.
I. HOLLOW METAL FRAMES: THESE ASSEMBLIES ARE NOT NOTED ON THE ROOM FINISH SCHEDULE. SEE OPENING SCHEDULES FOR SPECIFIC REQUIREMENTS. IF A WALL IS FULLY ONE OF THESE ASSEMBLIES, NO MATERIAL OR FINISH IS NOTED ON THE FINISH SCHEDULE.
J. EXPOSED STRUCTURE AND MISCELLANEOUS STEEL FINISH: ALL EXPOSED STEEL STRUCTURE SHALL BE FINISHED WITH HIGH PERFORMANCE COATING(HPC) WHERE EXPOSED, UNLESS SPECIFICALLY NOTED OTHERWISE. GENERALLY, EXPOSED STEEL STRUCTURE AND MISCELLANEOUS STEEL ARE NOT SCHEDULED ON THE FINISH SCHEDULE.
K. GYPSUM WALL BOARD (GWB):
   1. ALL GB SHALL BE TYPE 'X', UNLESS NOTED OTHERWISE. REFERENCE FINISH SCHEDULE AND SPECIFICATIONS FOR SPECIFIC TYPES OF GWB TO BE USED (i.e. WATER RESISTANT).
   2. WATER RESISTANT GB TO BE USED AT RESTROOMS, TOILET ROOMS, SHOWERS, KITCHEN AND WALLS BEHIND OR ADJACENT TO MOP/SERVICE SINKS, AND AS SCHEDULED.
   3. PROVIDE CASING BEADS AT GWB EDGES WHEREVER EDGES TERMINATE AGAINST A DIFFERENT MATERIAL OR AT A REVEAL. PROVIDE CORNER BEADS AT ALL GWB CORNERS, TYPICAL TO ALL SECTIONS OF THIS DRAWING SET.
   4. AT WALLS WITH VWC AND DIGITAL GRAPHICS, PROVIDE GWB W/MUD/TAPE FINISH AND WALL PRIMER AS SPECIFIED FOR PREPARATION AT AREAS OF VINYL WALL COVERING OR DIGITAL GRAPHICS.
L. AT ALL ROOMS WITH WATERPROOF DECK COATING, EXTEND COATING UP WALL 4" MINIMUM.
M. SEE FOOD SERVICE DRAWINGS FOR THE LOCATION OF SS CORNER GUARDS.

LEGEND

AWP	ACOUSTIC WALL PANEL
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONC-S	CONCRETE SEALED
CLW	COMPACT PLASTIC LAMINATE WAINSCOT
CPT	CARPET
CT	CERAMIC TILE
CTW	CERAMIC TILE WAINSCOT
(E)	EXISTING
EFC	EPOXY FLOOR COATING
FF	FACTORY FINISH
FRLW	FIBER-REINFORCED LAMINATE WAINSCOT
FTP	FIRE TAPE / MUD
MDFW	MEDIUM DENSITY FIBERBOARD WAINSCOT
GB	GYPSUM WALL BOARD
LINS	LINOLEUM SHEET
LINT	LINOLEUM TILE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLAM	PLASTIC LAMINATE
PT	PAINT / PAINTED
PW	PLYWOOD
RAF	RUBBER ATHLETIC FLOORING
RB	4" RUBBER BASE
RT	RUBBER TILE
SC	SOLID CORE
SL	SEALED
SSW	STAINLESS STEEL WAINSCOT
VCT	VINYL COMPOSITE FLOORING
VWC	VINYL WALL COVERING
WOM	WALK-OFF MAT
GBCTW	PAINTED GYPSUM WITH CT WAINSCOT
GB-PT	PAINTED GYPSUM
RESF	RESILIENT FLOORING
ACT	ACOUSTIC CEILING TILE
GL	GLASS
FRP	FIBERGLASS REINFORCED PANELS
EXP	EXPOSED
VWP	VINYL WALL PAPER
SV	SHEET VINYL

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Client
ABERDEEN SD #5

Project
HARBOR LEARNING CENTER
2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates
12 AUGUST 2025 95% SD

100% Schematic Design
Not for Construction

Drawn By MN
Checked By JRM

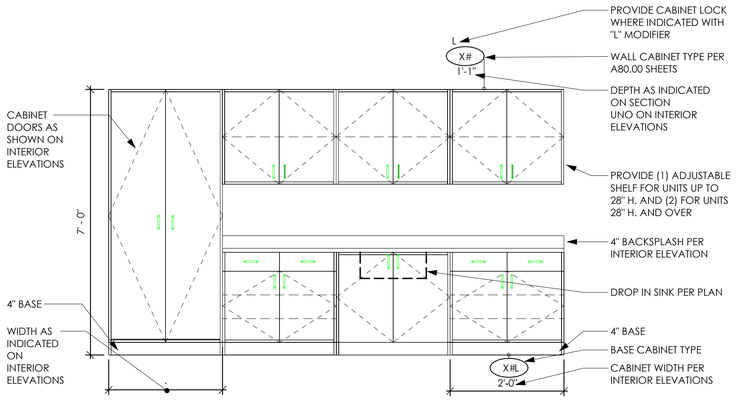
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ROOM FINISH SCHEDULE

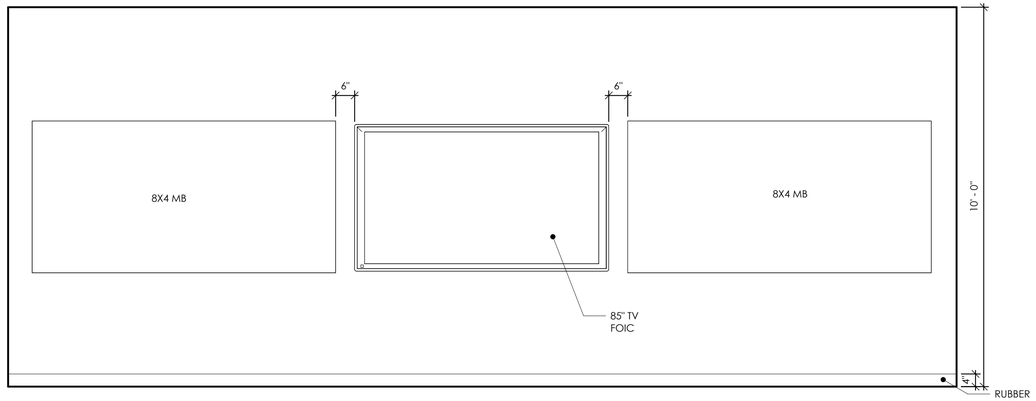
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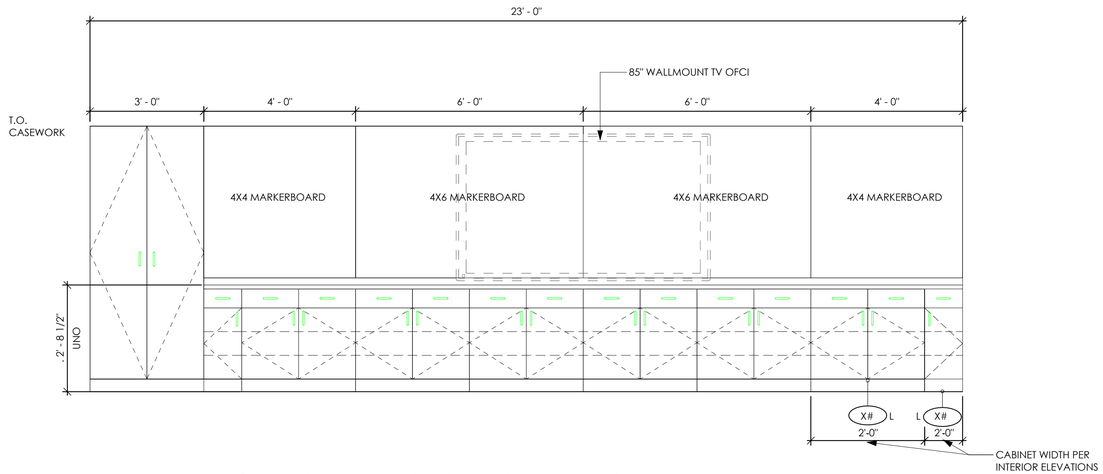
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1 TYPICAL CLASSROOM CASEWORK LAYOUT

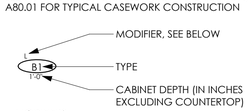


2 ALTERNATE TEACHING WALL CASEWORK LAYOUT

CASEWORK TYPE LEGEND & GENERAL NOTES

SEE INTERIOR ELEVATIONS FOR CALLOUTS AND NOTATIONS NOT SHOWN OR LISTED HERE

1. SEE SHEET G2.01 FOR LEGEND & GENERAL NOTES
2. SEE INTERIOR ELEVATIONS FOR CASEWORK SCHEDULED AND USED FOR THE PROJECT
3. SEE A60-SERIES SHEETS FOR WINDOW SILL DETAILS.
4. ALL CABINETS SHALL BE FROM A SINGLE MANUFACTURER
5. FINISH ALL EXPOSED PORTIONS OF CASEWORK AND COUNTERTOPS
6. BASES ON CASEWORK, AS PROVIDED BY OTHER TRADES, TYPICALLY 4", UNLESS OTHERWISE NOTED.
7. "DEPTH" OF CASEWORK SHOWN ON INTERIOR ELEVATIONS OR IN SCHEDULE INDICATES THE NOMINAL DEPTH OF THE CABINET AND NOT THE COUNTERTOP
8. PROVIDE FILLER PANELS BETWEEN ENDS OF CABINETS AND ADJACENT WALLS AT GAPS OVER 1/4" WIDE, INCLUDING SIDES AND BACKS
9. IN CASE OF CABINET INSTALLATIONS BETWEEN WALLS, VERIFY DIMENSIONS IN FIELD AND PROVIDE FILLER PANEL STRIPS NOT TO EXCEED 2" AT ENDS AND TOPS OR REDUCE END CABINET WIDTH AS REQUIRED TO FIT SPACE AS SHOWN. THIS SHALL BE REFLECTED IN THE SHOP DRAWINGS FOR THE ARCHITECTS REVIEW
10. UPPER AND LOWER CABINET DOORS AND FULL HEIGHT CABINETS SHALL HAVE PULLS MOUNTED VERTICALLY (UNO). DRAWERS SHALL HAVE HORIZONTAL PULLS.
11. COORDINATE HEIGHT AND LOCATION OF BACKING PLATES FOR CASEWORK AS PER MANUFACTURER'S RECOMMENDATIONS. SEE GENERAL NOTES TO THE INTERIOR WALL TYPES ON SHEET A32.01. TYPICAL CASEWORK DETAILS ON SHEET A80.01 AND STRUCTURAL FRAMING DETAILS FOR ADDITIONAL BACKING PLATE AND BLOCKING DETAILS AND REQUIREMENTS
12. ALL SHELVING SHALL BE ADJUSTABLE INCLUDING OPEN SHELVING, UNLESS OTHERWISE NOTED
13. LOCATE TOP OF ALL WALL HUNG CASEWORK 7'-0" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE. SEE SCHEDULE AND INTERIOR ELEVATIONS FOR BASE AND WALL CABINET DIMENSIONS
14. UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS, ALL FIXED BASE CABINETS SHALL HAVE A BACKSPLASH AS INDICATED ON INTERIOR ELEVATIONS, AND ALSO HAVE A SAME- HEIGHT SIDESPLASH WHERE ENDS OF CABINETS MEET WITH WALLS, AND OTHER CASEWORK AND WHERE CALLED OUT. BACKSPLASHES TO BE AS SCHEDULED ON 3/4" BACKING. BACKSPLASHES SHALL BE SAME MATERIAL AS TOPS.
15. ALL SHELVES, VERTICAL DIVIDERS, AND CABINET INTERIORS SHALL BE FINISHED PER THE SPECIFICATIONS, EXCEPT FINISHED WITH PLASTIC LAMINATE TO MATCH EXTERIOR FINISH AT OPEN OR GLAZED DOOR CASEWORK, AND WHERE CALLED OUT.
16. ALL SHELVES SHALL HAVE ALL EDGES AND ENDS FINISHED AS PER THE SPECIFICATIONS FOR FRONT EDGE FINISH REQUIREMENTS. ALL SHELVES FINISHED WITH PLASTIC LAMINATE TO MATCH EXTERIOR FINISH AT OPEN OR GLAZED DOOR CASEWORK SHALL HAVE EDGES FINISHED WITH SPECIFIED EDGE-BANDING OR P-LAM.
17. ALL CABINETS AND MILLWORK SHALL BE SECURELY ANCHORED TO WALLS AND FLOORS TO CONFORM TO SEISMIC SUPPORT REQUIREMENTS OF THE STATE OF WASHINGTON.
18. CABINET SHOP DRAWINGS SHALL SHOW ACTUAL LOCATIONS OF ELECTRICAL ITEMS AND PLUMBING FIXTURES AND TRIM TO BE INSTALLED. GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF CABINETS AND MILLWORK ITEMS WITH ELECTRICAL SWITCHES, OUTLET LOCATIONS, AND PLUMBING FIXTURES. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF ANY WORK.
19. ALL TOPS OF UNITS UNDER 72" A.F.F., OR OVER 72" A.F.F. IF VISIBLE FROM AN UPPER BUILDING LEVEL, SHALL BE FURNISHED WITH CONTINUOUS COUNTERTOP OR, WHEN APPROVED BY THE ARCHITECT, INDIVIDUAL PLASTIC LAMINATE FINISH TOP.
20. PROVIDE FILLER PANELS AT ALL GAPS AND VOIDS AT TOPS OF TALL UNITS AND AT TOP AND BOTTOM OF WALL UNITS (UPPER CASEWORK) NOT OTHERWISE CLOSED (I.E. WHERE CONTINUOUS COUNTERTOPS ARE REQUIRED) TO PREVENT PAPER, ETC., FROM COLLECTING BEHIND OR BETWEEN UNITS.
21. EXACT HEIGHT OF INDIVIDUAL DRAWERS IN DRAWER UNITS OR DRAWER/DOOR COMBINATION UNITS IS NOT GIVEN AND IS SUBJECT TO ADJUSTMENT DURING SHOP DRAWING REVIEW AND MAY VARY, DEPENDING ON LOCATION OF UNIT (I.E. TO LINE UP WITH ADJACENT CASEWORK, TRIM, ETC.).
22. CASEWORK SCHEDULE LISTS CABINETS BY TYPE, BUT DOES NOT GIVE QUANTITIES. SEE INTERIOR ELEVATIONS AND FLOOR PLANS TO DETERMINE QUANTITIES.
23. HEIGHTS LISTED FOR BASE CABINETS ARE TO TOP OF COUNTERTOP, UNLESS NOTED OTHERWISE.
24. FLOOR FINISHES SHALL RUN UNDER ALL OPEN CASEWORK IN ALL ROOMS
25. SEE TYPICAL CASEWORK ELEVATION AND SECTION, DETAIL 1 ON SHEET A80.01 FOR TYPICAL CASEWORK CONSTRUCTION



MODIFIERS

L LOCKING

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Client

ABERDEEN SD #5

Project

HARBOR LEARNING CENTER

2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates

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100% Schematic Design

Not for Construction

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Sheet Title

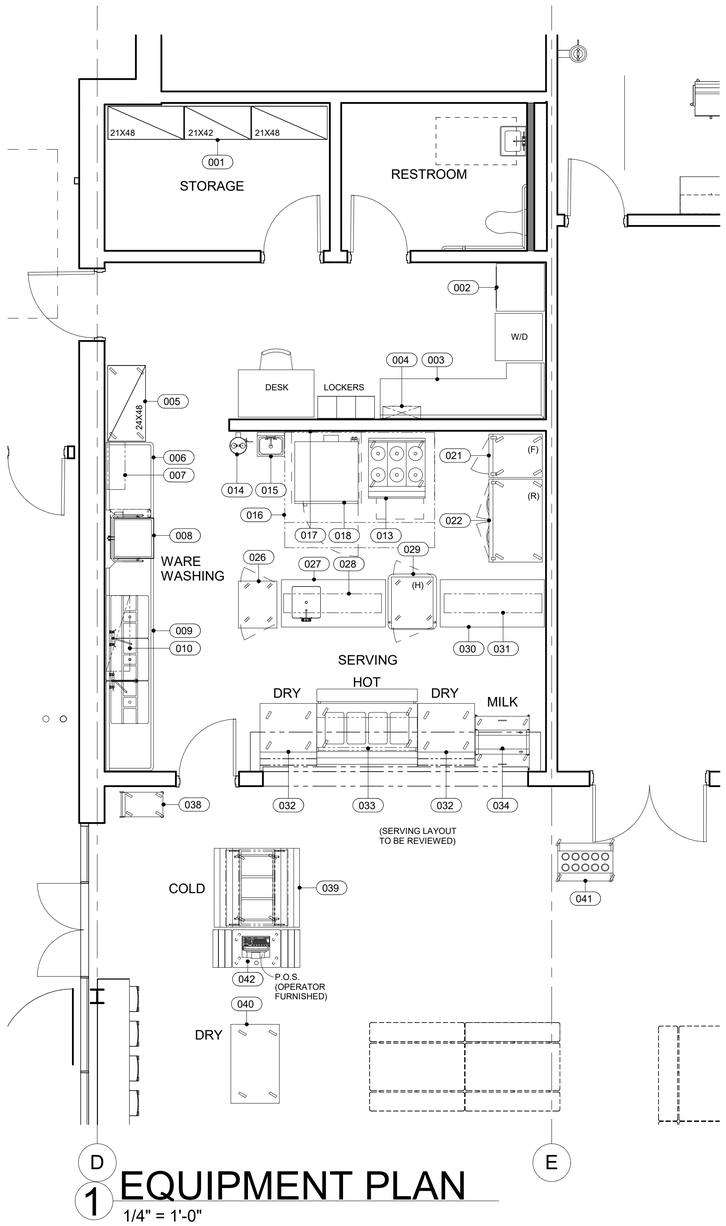
ROOM FINISH SCHEDULE

A80.01

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1 EQUIPMENT PLAN

1/4" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL
001	3	STORAGE SHELVING	METRO	METROMAX Q
002	1	MOP SINK CABINET	JOHN BOOS	PBJC-303084
003	1	WORKTABLE	CUSTOM FABRICATED	CUSTOM
004	1	FIRE SUPRESSION SYSTEM	ANSUL/HALTON	R-102 WET
005	1	MOBILE POT SHELVING	METRO	METROMAX Q
006	1	CLEAN DISHTABLE	CUSTOM FABRICATED	CUSTOM
007	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
008	1	DISHWASHER WITH BOOSTER HEATER (VENTLESS)	HOBART	AM16VLT-ADV
009	1	SOILED DISHTABLE WITH POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM
010	1	UTENSIL RACK WITH SHELF	CUSTOM FABRICATED	CUSTOM
011	1	SPARE NUMBER		
012	1	SPARE NUMBER		
013	1	RANGE WITH OVEN	IMPERIAL RANGE	IHR-6-E
014	1	EYE WASH STATION WITH THERMOSTATIC MIXING VALVE	T & S BRASS	EW-7360B-TMV
015	1	HAND SINK	ADVANCE TABCO	7-PS-40
016	1	EXHAUST HOOD W/ MAKE-UP AIR (TYPE 1)	HALTON	KVE
017	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	CUSTOM
018	1	MOBILE CONVECTION OVEN (DOUBLE STACKED)	BLODGETT	CNVX-14E DBL
019	1	SPARE NUMBER		
020	1	SPARE NUMBER		
021	1	MOBILE REACH-IN FREEZER	TRUE	STA1F-1S-HC
022	1	MOBILE REACH-IN REFRIGERATOR	TRUE	STA2R-2S-HC
023	1	SPARE NUMBER		
024	1	SPARE NUMBER		
025	1	SPARE NUMBER		
026	1	MOBILE TRANSPORT CABINET (PASS-THRU)	FWE	ETC-UA-13INS
027	1	ISLAND WORKTABLE WITH SINK	CUSTOM FABRICATED	CUSTOM
028	1	DOUBLE PASS SHELVES	CUSTOM FABRICATED	CUSTOM
029	1	MOBILE HEATED CABINET (PASS-THRU)	FWE	UHST-5
030	1	ISLAND WORKTABLE	CUSTOM FABRICATED	CUSTOM
031	1	DOUBLE PASS SHELVES	CUSTOM FABRICATED	CUSTOM
032	2	MOBILE UTILITY COUNTER	ATLAS METAL INDUSTRIES	BLU-2
033	1	MOBILE HOT SERVING COUNTER (4 PAN) WITH FOOD SHIELD	ATLAS METAL INDUSTRIES	BLH-4-H
034	1	MOBILE MILK COOLER	TRUE	TMC-34-HC
035	1	SPARE NUMBER		
036	1	SPARE NUMBER		
037	1	SPARE NUMBER		
038	1	MOBILE UTILITY CART	LAKESIDE	610
039	1	MOBILE COLD SERVING COUNTER (3 PAN) WITH FOOD SHIELD	ATLAS METAL INDUSTRIES	BLC-3-RM
040	1	MOBILE CONDIMENT COUNTER	ATLAS METAL INDUSTRIES	BLU-3-BU
041	1	MOBILE TRAY AND SILVERWARE UNIT	ATLAS METAL INDUSTRIES	CWTS
042	1	MOBILE CASHIER UNIT	ATLAS METAL INDUSTRIES	BLM-1

PROGRESS PRINT 08-08-25

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ABERDEEN SD #5

Project

HARBOR LEARNING CENTER

2025-001
Harbor Learning Center

510 N I ST, Aberdeen

Issue & Revision Dates

11 JULY 2025 65% SD

100% Schematic Design

Not for Construction

NOTE: DRAWING MAY BE REDUCED

0 2' 4' 8'

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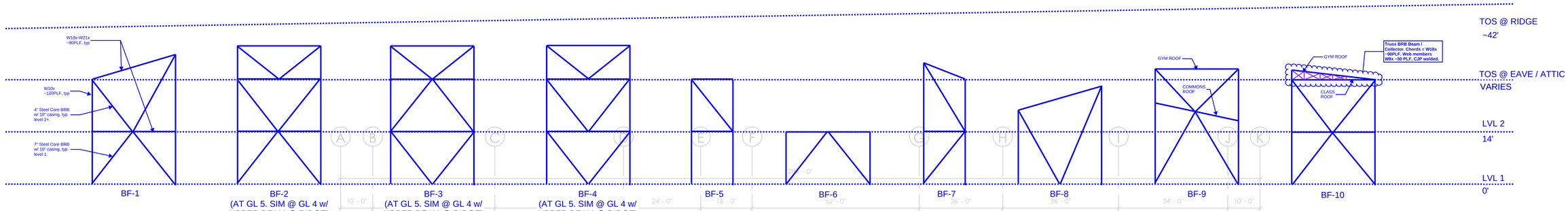
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EQUIPMENT PLAN

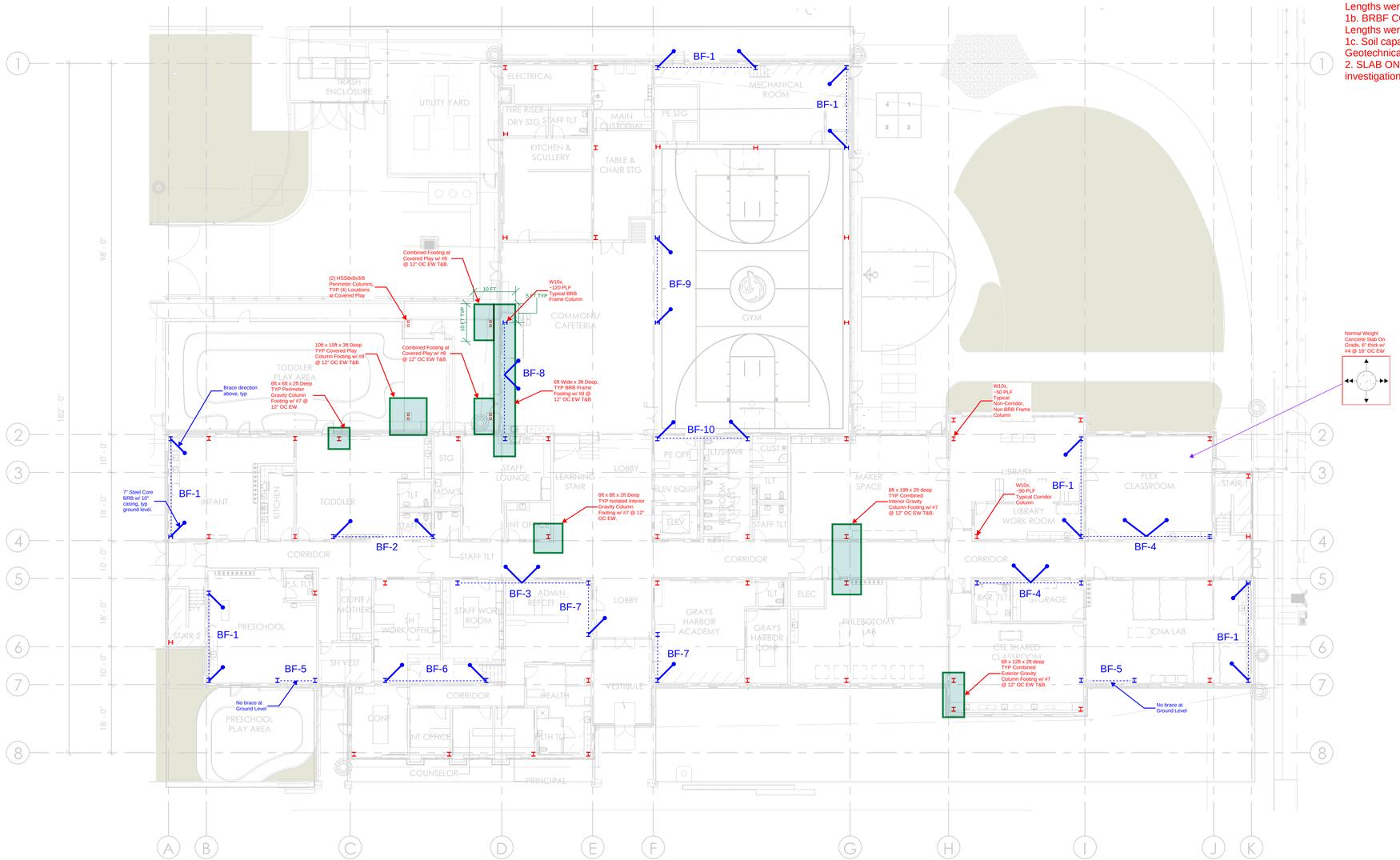
FS-1

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NOTES:
1a. GRAVITY COLUMN FOOTINGS Depths, Widths, Lengths were sized for a soil capacity of 3000 psf.
1b. BRBF COLUMN FOOTINGS Depths, Widths, Lengths were sized for a soil capacity of 4000 psf.
1c. Soil capacity subject to change pending Geotechnical investigation and ground improvement.
2. SLAB ON GRADE thickness pending Geotechnical investigation and ground improvement.



1 FOUNDATION PLAN
1/16" = 1'-0"

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2025-001
Harbor Learning Center

510 N I ST, Aberdeen

Issue & Revision Dates
12 AUGUST 2025 95% SD
24 SEPTEMBER 2025 100% SD

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Keyplan

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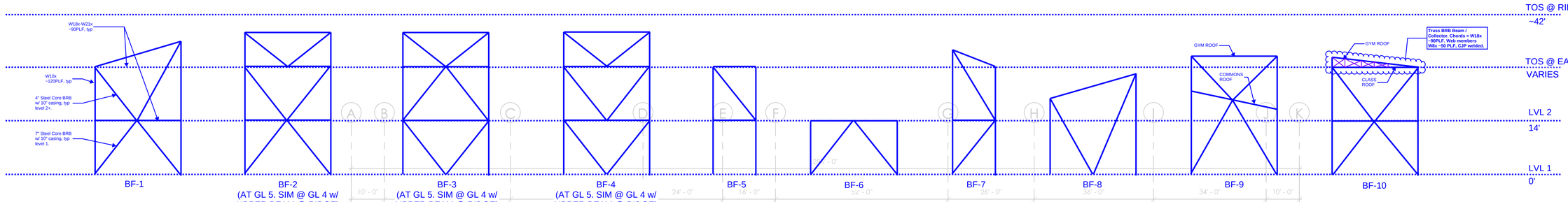
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FOUNDATION PLAN

S 2.01

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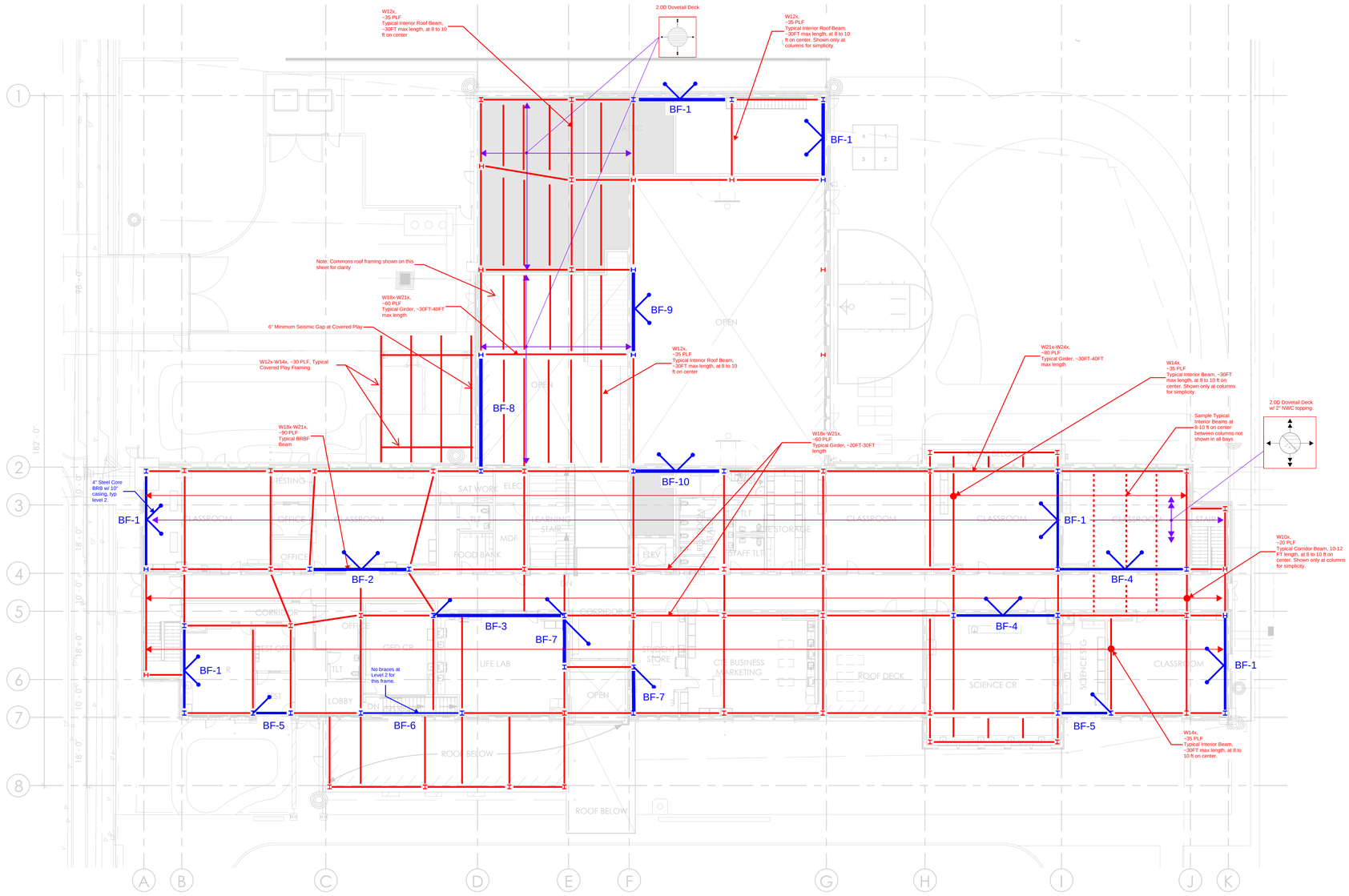
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BF-1 | BF-2 (AT GL 5. SIM @ GL 4 w/ UPPER BEAM @ RIDGE) | BF-3 (AT GL 5. SIM @ GL 4 w/ UPPER BEAM @ RIDGE) | BF-4 (AT GL 5. SIM @ GL 4 w/ UPPER BEAM @ RIDGE) | BF-5 | BF-6 | BF-7 | BF-8 | BF-9 | BF-10

NOTES:
1. BEAMS run plan North-South
2. GIRDERS run plan East-West



1 FRAMING PLAN - LEVEL 2
1/16" = 1'-0"

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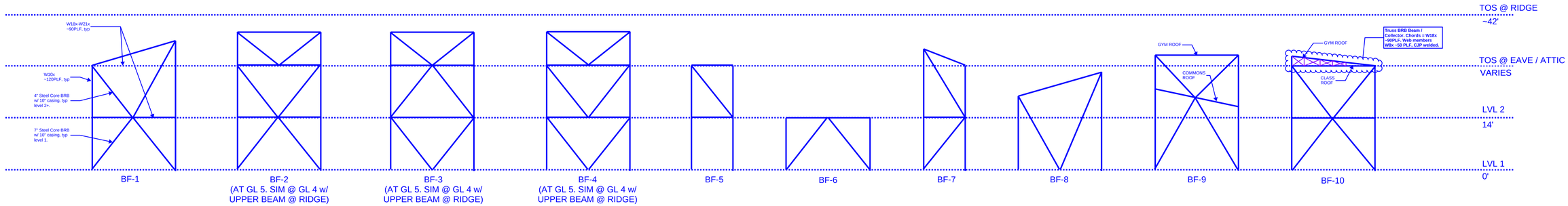
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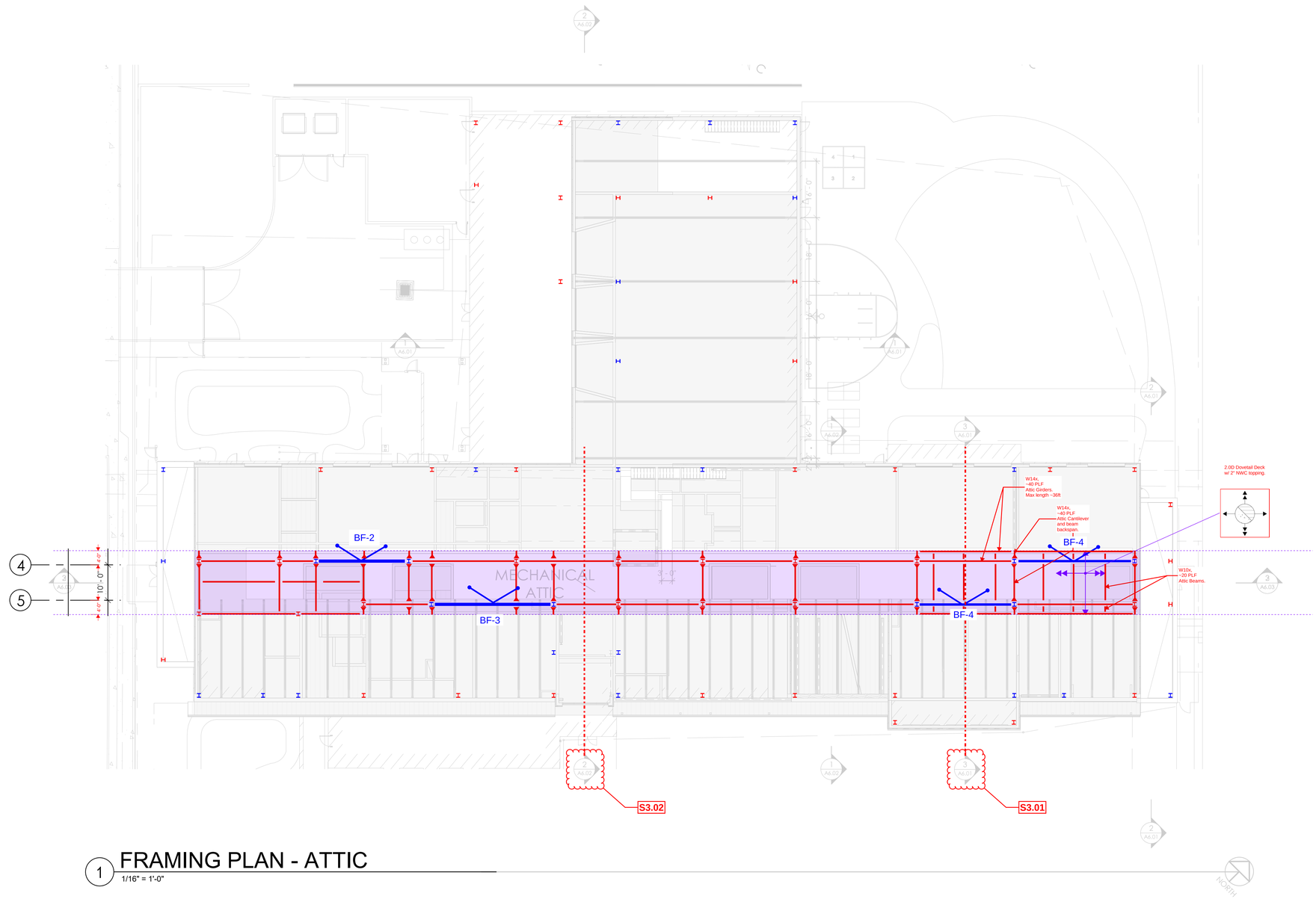
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1 FRAMING PLAN - ATTIC
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Harbor Learning Center

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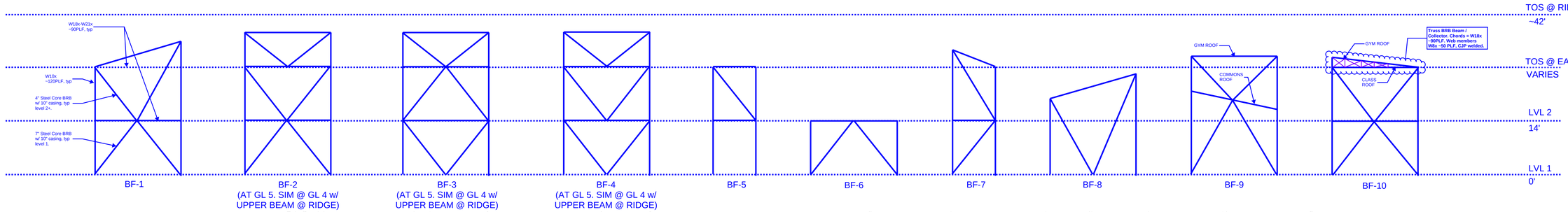
FRAMING PLAN - ATTIC

S 2.03

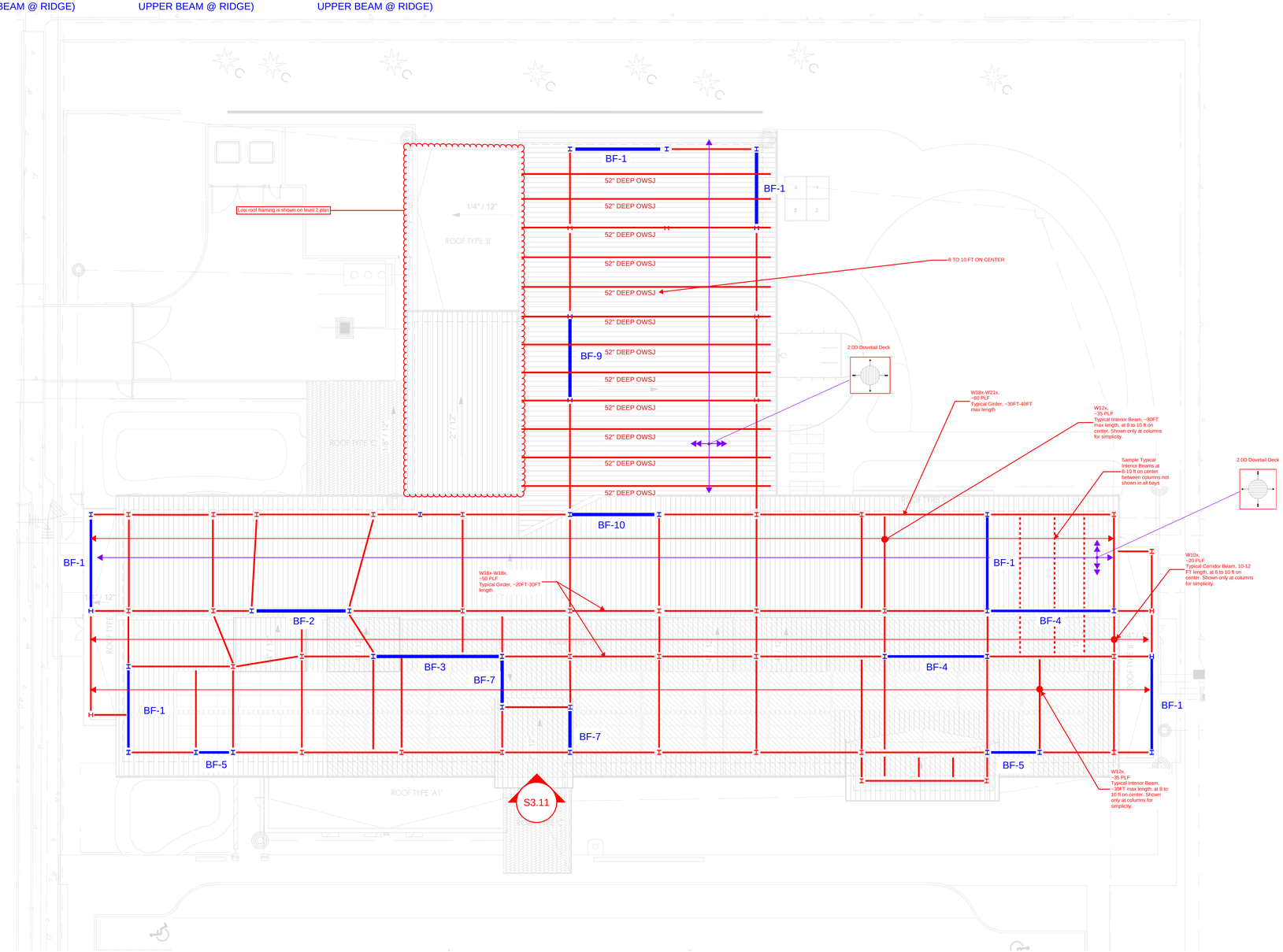
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1 FRAMING PLAN - ROOF
1/16" = 1'-0"

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Keyplan

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0 8' 16' 32'

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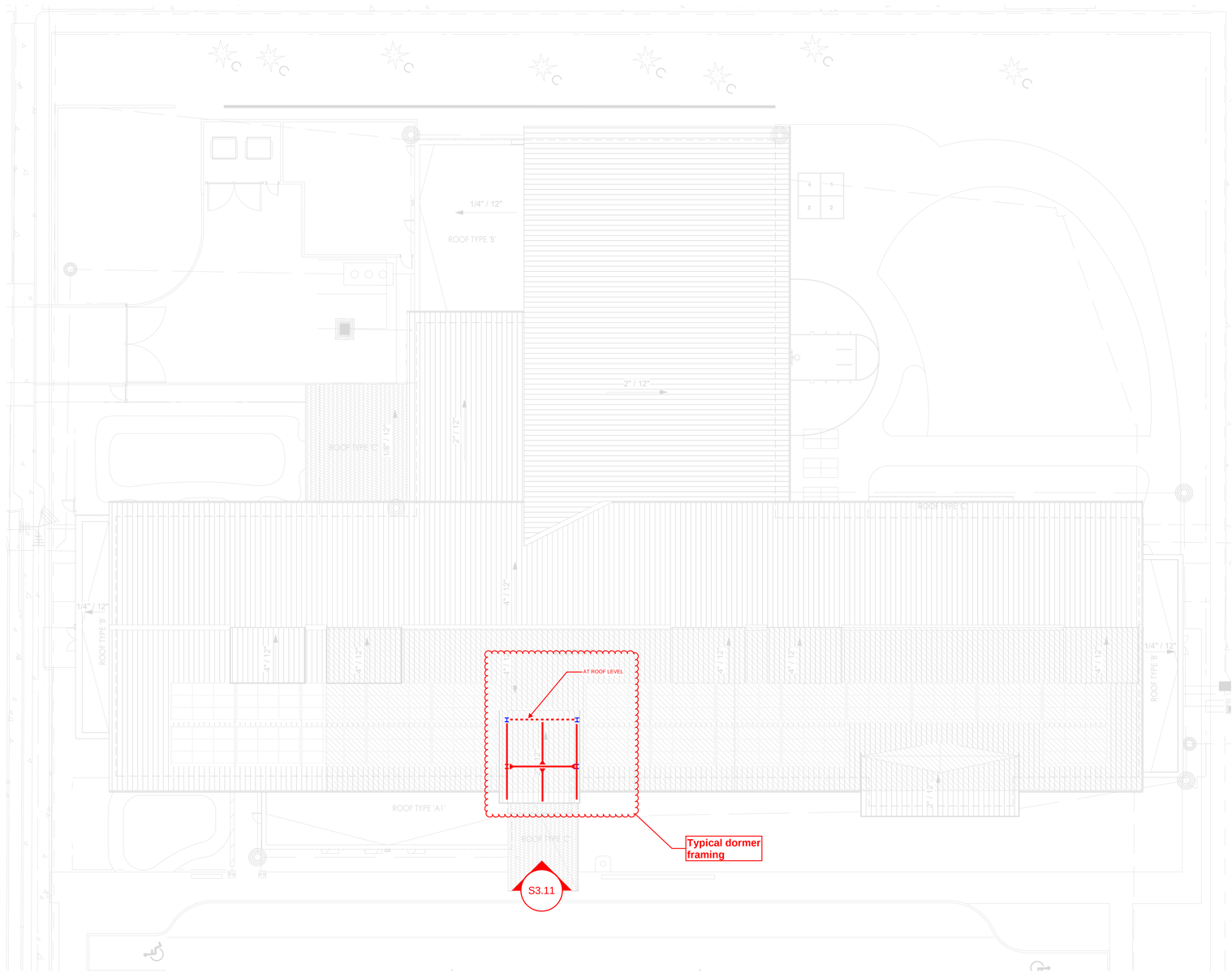
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1 FRAMING PLAN - DORMERS

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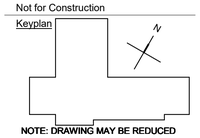
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100% Schematic Design

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Keyplan



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FRAMING PLAN - DORMERS

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Project
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2025-001 Harbor Learning Center

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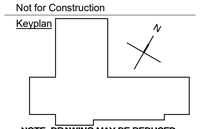
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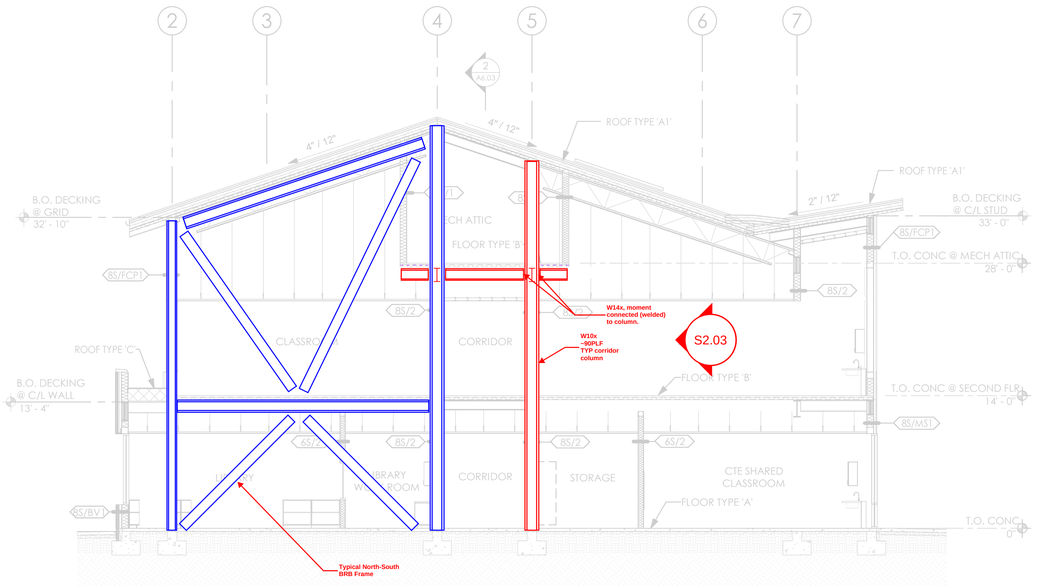
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0 8' 16' 32'

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Sheet Title

BUILDING SECTIONS



1 ATTIC SECTION
1/8" = 1'-0"

S 3.01

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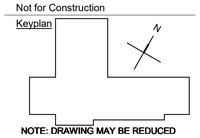
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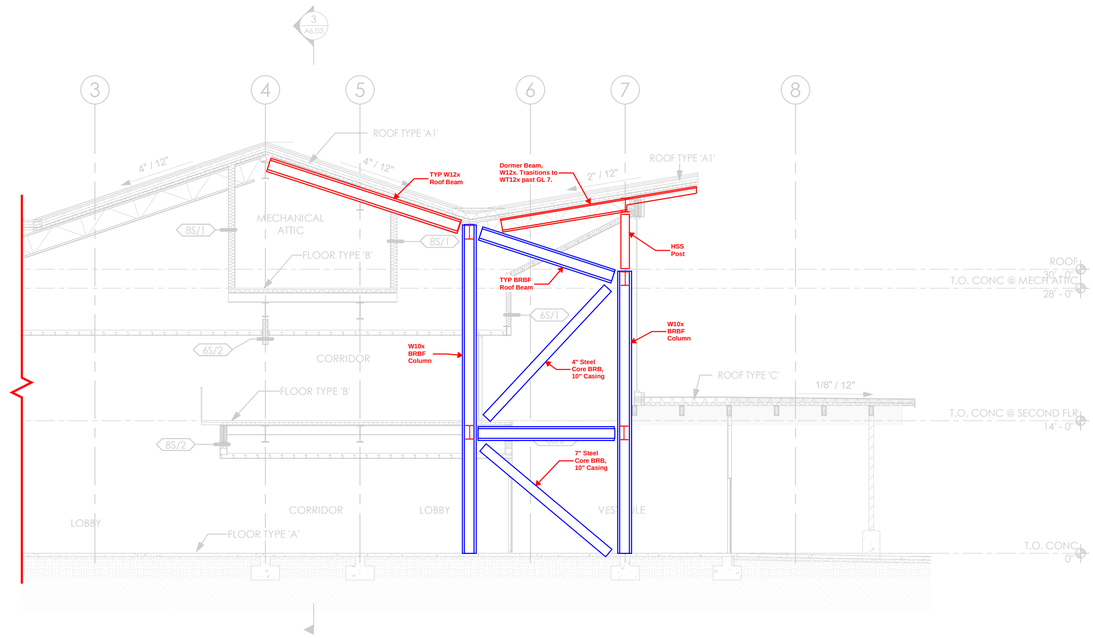
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BUILDING SECTIONS

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1 DORMER SECTION AT ATTIC
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1 DORMER ELEVATION

1/8" = 1'-0"

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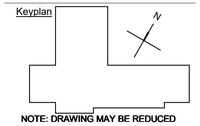
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0 8' 16' 32'

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BUILDING ELEVATIONS

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REFERENCE SYMBOLS

- NEW MECHANICAL WORK
- EXISTING MECHANICAL WORK
- EXISTING MECHANICAL WORK TO BE DEMOLISHED
- ENLARGED PLAN BORDER
- MATCHLINE
- SECTION IDENTIFIER (1 / MX.X)
- DETAIL OR DRAWING IDENTIFIER (1 / MX.X)
- REVISION CLOUD INDICATES WHERE SECTION APPEARS
- INDICATES REVISION & NUMBER (1)
- FLAG NOTE (1)
- EQUIPMENT IDENTIFIER (AHU-XXX)
- POINT OF CONNECTION
- NORTH ARROW
- MECHANICAL ACCESS

PLUMBING LINE DESIGNATION SYMBOLS

- DOMESTIC COLD WATER (POTABLE)
- DOMESTIC HOT WATER (POTABLE)
- DOMESTIC HOT WATER CIRCULATING (POTABLE)
- NPCW — NON-POTABLE COLD WATER
- NPHW — NON-POTABLE HOT WATER
- NPHWC — NON-POTABLE HOT WATER CIRCULATING
- SANITARY SEWER ABOVEGROUND
- SANITARY SEWER UNDERGROUND
- VENT PIPING
- GV — GREASE WASTE ABOVEGROUND
- GV — GREASE WASTE UNDERGROUND
- AW — ACID RESISTANT (CHEMICAL) WASTE ABOVEGROUND
- AW — ACID RESISTANT (CHEMICAL) WASTE UNDERGROUND
- AV — ACID RESISTANT (CHEMICAL) VENT PIPING
- A — COMPRESSED AIR
- RWL — RAIN WATER LEADER
- ORWL — OVERFLOW RAIN WATER LEADER

HVAC PIPING LINE DESIGNATION SYMBOLS

- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- DTS — DUAL TEMPERATURE HEATING AND COOLING WATER SUPPLY
- DTR — DUAL TEMPERATURE HEATING AND COOLING WATER RETURN
- MU — MAKEUP WATER
- C — CONDENSATE DRAIN PIPING
- PC — PUMPED CONDENSATE
- LL — REFRIGERANT LIQUID LINE
- SL — REFRIGERANT SUCTION LINE

FIRE PROTECTION LINE DESIGNATION SYMBOLS

- F — FIRE SPRINKLER
- FD — DRY FIRE SPRINKLER

PIPING ELEMENTS/VALVING

- VALVE
- CHECK VALVE
- BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TEMPERATURE/PRESSURE RELIEF VALVE
- RELIEF/SAFETY VALVE
- MANUAL AIR VENT
- AAV — AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- FM — FLOW METER
- AUTOMATIC FLOW CONTROL VALVE
- DIRECTION OF FLOW
- R D — DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- UNION
- ANCHOR
- GUIDE
- FS — FLOW SWITCH
- TT — TEMPERATURE TRANSMITTER
- PT/PS — PRESSURE TRANSMITTER OR PRESSURE SWITCH
- PRESSURE GAUGE
- THERMOMETER
- AQUASTAT
- GAUGE WITH GAUGE COCK & SIPHON (STEAM)
- GAS PRESSURE REGULATOR
- T — TEMPERATURE/PRESSURE TEST PORT
- BASKET STRAINER
- STEAM TRAP
- EXPANSION JOINT
- VB — VACUUM BREAKER
- FLEXIBLE CONNECTOR
- WM — WATER METER
- GM — GAS METER
- PUMP
- SPRINKLER HEAD
- BACKFLOW PREVENTION DEVICE (REDUCED ZONE)
- BACKFLOW PREVENTION DEVICE (DOUBLE CHECK VALVE ASSEMBLY)
- WATER HAMMER ARRESTER
- HOSE BIBB
- ROOF DRAIN
- FLOOR DRAIN
- FLOOR SINK
- FCO — CLEAN-OUT (FLOOR)
- WCO — CLEAN-OUT (WALL)
- CO — CLEAN-OUT
- PIPE CONTINUES
- PIPE CAP
- VTR — VENT THRU ROOF
- TRENCH DRAIN
- PIPE RISING UP
- PIPE DROPPING DOWN
- PIPE CONNECTION
- PIPE CONNECTION DOWN

DUCTWORK SYMBOLS

- NEW DUCTWORK
- R D — RISE OR DROP DIRECTION OF AIR FLOW
- INTERNALLY LINED DUCT
- MANUAL VOLUME DAMPER
- BDD — BACKDRAFT DAMPER
- M — MOTOR OPERATED DAMPER
- DSD — DUCT SMOKE DETECTOR
- FIRE DAMPER
- SMOKE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- HORIZONTAL FIRE DAMPER
- HORIZONTAL SMOKE DAMPER
- HORIZONTAL COMBINATION FIRE/SMOKE DAMPER
- FLEXIBLE CONNECTION
- UC — UNDERCUT DOOR
- SUPPLY AIR DUCT SECTION
- RETURN OR OUTSIDE AIR DUCT SECTION
- EXHAUST AIR DUCT SECTION
- RECTANGULAR DUCT UP
- RECTANGULAR DUCT DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN
- FLEXIBLE DUCTWORK

DIFFUSER, REGISTER, AND GRILLE SYMBOLS

- X XxX CFM — AIR DEVICE TAG
- SUPPLY DIFFUSER
- RETURN OR RELIEF GRILLE
- EXHAUST GRILLE
- SIDEWALL GRILLE (SUPPLY), LOUVER (EXHAUST OR RETURN)
- SIDEWALL GRILLE (RETURN OR EXHAUST), LOUVER (OUTSIDE)
- LINEAR GRILLE
- ROUND DIFFUSER

CONTROLS

- T — ROOM THERMOSTAT SENSOR "THERMOSTAT"
- S — FLAT PLATE TEMPERATURE SENSOR
- P — ROOM PRESSURE SENSOR
- H — ROOM HUMIDITY SENSOR
- CO — ROOM CARBON MONOXIDE SENSOR
- CO2 — ROOM CARBON DIOXIDE SENSOR
- NO2 — ROOM NITROGEN DIOXIDE SENSOR
- OS — OCCUPANCY SENSOR
- VFD — VARIABLE FREQUENCY DRIVE
- STR — STARTER OR STARTER/DISCONNECT
- DDC — DIRECT DIGITAL CONTROL PANEL
- DP — DIFFERENTIAL PRESSURE TRANSMITTER
- CONTROL WIRING
- $ — SWITCH

MECHANICAL SHEET LIST

M0.01	MECHANICAL LEGEND AND SHEET LIST
M0.02	MECHANICAL ABBREVIATIONS AND GENERAL NOTES
M0.03	MECHANICAL SCHEDULES
M0.04	MECHANICAL SCHEDULES
M0.05	MECHANICAL SCHEDULES
M0.06	MECHANICAL SCHEDULES
M0.07	MECHANICAL SCHEDULES
M1.00	MECHANICAL SITE PLAN
M1.01	UNDERGROUND PLUMBING PLAN
M2.01	FIRST FLOOR PLUMBING PLAN
M2.02	SECOND FLOOR PLUMBING PLAN
M2.03	MECHANICAL ATTIC PLUMBING PLAN
M3.01	FIRST FLOOR HVAC PLAN
M3.02	SECOND FLOOR HVAC PLAN
M3.03	THIRD FLOOR HVAC PLAN
M4.01	FIRST FLOOR ZONING PLAN
M4.02	SECOND FLOOR ZONING PLAN
M5.01	ENLARGED MECHANICAL ROOM PLAN
M8.01	AIR-TO-WATER HEAT PUMP CHILLED WATER PIPING DIAGRAM
M8.02	AIR-TO-WATER HEAT PUMP HEATING WATER PIPING DIAGRAM
M8.03	AIR-TO-WATER HEAT PUMP HEATING / CHILLED WATER PIPING DIAGRAM

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Client

ABERDEEN SD #5

Project

HARBOR LEARNING CENTER

510 N I ST, Aberdeen

Issue & Revision Dates

12 AUGUST 2025 — 95% SD
24 SEPTEMBER 2025 — 100% SD

100% Schematic Design

Not for Construction

Keyplan

NOTE: DRAWING MAY BE REDUCED

0 4' 8' 16'

Drawn By

Checked By

Sheet Title

MECHANICAL LEGEND AND SHEET LIST

M0.01

Sheet Number Of

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ABBREVIATIONS:

Ø	DIAMETER, PHASE
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AD	AREA DRAIN, ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS, INC.
ATM	ATMOSPHERE
AV	ACID RESISTANT (CHEMICAL) VENT
AW	ACID RESISTANT (CHEMICAL) WASTE
B	BOILER
BDD	BACKDRAFT DAMPER
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLW	BELOW
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDENSATE DRAIN PIPING
CA	AIR COMPRESSOR
CAP	CAPACITY
CBV	CIRCUIT BALANCING VALVE
CC	COOLING COIL
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER, CABINET HEATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWS/R	CHILLED WATER SUPPLY AND RETURN
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COMB	COMBUSTION, COMBINATION
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUE, CONTROL
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CT	COOLING TOWER
CU	CONDENSING UNIT, CUBIC
CV	CHECK VALVE, CONSTANT VOLUME
CW	DOMESTIC COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWS/R	CONDENSER WATER SUPPLY AND RETURN
DB	DRY BULB
DC	DUCT COIL, DUST COLLECTOR
DDC	DIRECT DIGITAL CONTROL
DDCV	DOUBLE DETECTOR CHECK VALVE
DEPT	DEPARTMENT
DEG	DEGREE
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DH	DUCT HEATER
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DIM	DIMENSION
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEMS
DP	DIFFERENTIAL PRESSURE
DTS	DUAL TEMPERATURE HEATING AND COOLING WATER SUPPLY
DTR	DUAL TEMPERATURE HEATING AND COOLING WATER RETURN
DTS/R	DUAL TEMPERATURE HEATING AND COOLIN WATER SUPPLY AND RETURN
DX	DIRECT EXPANSION
DWG	DRAWING
DWP	DOMESTIC WATER PUMP
(E)	EXISTING
EA	EACH, EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECG	EGGCRATE GRILLE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETC	AND SO FORTH
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR, EVAPORATIVE
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXT	EXTERIOR, EXTERNAL
F	FIRE SPRINKLER
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTOR, FLUID COOLER
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F/D	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FLR	FLOOR
FLEX	FLEXIBLE
FO	FUEL OIL, FLAT OVAL
FOG	FUEL OIL GAGE
FOP	FUEL OIL PUMP
FOV	FUEL OIL VENT
FP	FIRE PROTECTION, FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
F/S/D	COMBINATION FIRE SMOKE DAMPER
FT	FEET, FINNED TUBE
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
G	GAS
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCWR	GLYCOL COOLING WATER RETURN
GCWS	GLYCOL COOLING WATER SUPPLY
GCWS/R	GLYCOL COOLING WATER SUPPLY AND RETURN
GFU	GAS FIRED UNIT
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GR	GRILLE
GRD	GRILLES, REGISTERS, AND DIFFUSERS
GW	GREASE WASTE
GWB	GYPSUM WALLBOARD
GWH	GAS WATER HEATER
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HOR	HORIZONTAL
HP	HEAT PUMP, HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HRU	HEAT RECOVERY UNIT
HT	HEIGHT
HTR	HEATER
HX	HEAT EXCHANGER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HWS/R	HEATING WATER SUPPLY AND RETURN
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
I.E.	INVERT ELEVATION
IN	INCH
INCL	INCLUDING
INT	INTERNAL
INV	INVERT
IRR	IRRIGATION WATER
ISP	INTERNAL STATIC PRESSURE
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LBS/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LL	REFRIGERANT LIQUID LINE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSANDS OF BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MED	MEDIUM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPG	MEDIUM PRESSURE GAS
MPS	MEDIUM PRESSURE STEAM
MS	MOP SINK
MTD	MOUNTED
MU	MAKEUP WATER
MUA	MAKEUP AIR UNIT
(N)	NEW
NA	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NEG	NEGATIVE
NO	NORMALLY OPEN
NO.	NUMBER
NOM	NOMINAL
NP	NON-POTABLE
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
NPHWC	NON-POTABLE HOT WATER CIRCULATING
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
ORWL	OVERFLOW RAIN WATER LEADER
OSA	OUTSIDE AIR
OT	OFF TOP
OV	OUTLET VELOCITY
P	PRESSURE, PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PERF	PERFORATED
PH	PHASE
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PR	CONDENSATE PUMP RETURN
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PTRV	PRESSURE/TEMPERATURE RELIEF VALVE
PU	PUMP
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	REFRIGERANT PIPING
RA	RETURN AIR
RAF	RETURN/RELIEF AIR FAN
RAG	RETURN AIR GRILLE
RAH	RADIANT HEATER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE, RETURN/EXHAUST FAN
REG	REGISTER
REL	RELIEF
REQD	REQUIRED
RET	RETURN
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY, ROOF HOOD
RHC	REHEAT COIL
RI&C	ROUGH IN AND CONNECT
RLA	RATED LOAD AMPS
RM	ROOM
ROD	ROOF OVERFLOW DRAIN
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
RWL	RAIN WATER LEADER
SA	SUPPLY AIR
SAD	SUPPLY AIR DIFFUSER
SAT	SUPPLY AIR TEMPERATURE
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCHEM	SCHEMATIC
S/D	SMOKE DAMPER
SF	SUPPLY FAN, SQUARE FOOT
SG	SUPPLY GRILLE
SL	REFRIGERANT SUCTION LINE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
ST	STORAGE TANK, SOUND TRAP
STD	STANDARD
STM	STEAM
STR	STARTER, STRUCTURAL
SUCT	SUCTION
SUP	SUPPLY
TAB	TESTING, ADJUSTING AND BALANCING
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOF	TOP OF FOOTING
TOP	TOP OF PIPE
TP	TOTAL PRESSURE
TPRV	TEMPERATURE/PRESSURE RELIEF VALVE
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
UH	UNIT HEATER
UNOCC	UNOCCUPIED
UP/DN	UP AND DOWN
URN	URINAL
V	VENT, VOLTS
VAC	VACUUM
VAV	VARIABLE AIR VOLUME UNIT
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATION, VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WASTE, WATT, WIDTH
W/	WITH
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WM	WATER METER
W/O	WITHOUT
WPD	WATER PRESSURE DROP
WSEC	WASHINGTON STATE ENERGY CODE
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WEIGHT
WTD	WATER TEMPERATURE DROP

GENERAL NOTES:

GENERAL:

1. COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
2. COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF DUCTS, PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., IN MECHANICAL ROOM ACCESS SPACES.
5. COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
6. PROVIDE 4" MINIMUM CONCRETE BASES (HOUSEKEEPING PADS) UNDER FLOOR MOUNTED MECHANICAL EQUIPMENT. THIS INCLUDES, BUT IS NOT LIMITED TO BOILERS, CHILLERS, FLUID COOLERS, COOLING TOWERS, PUMPS, EXPANSION TANKS, WATER HEATERS, AND STORAGE TANKS. COMPLY WITH REQUIREMENTS FOR EQUIPMENT BASES AND FOUNDATIONS SPECIFIED IN DIVISION 03.
7. PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
8. LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS, DAMPERS, CONTROLS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA. STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE UL LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATING IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACUDOR, ELMDOR, MILCOR, OR APPROVED.
9. COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
10. MAINTAIN INDICATED FIRE AND SMOKE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT MECHANICAL PENETRATIONS. SEAL PENETRATIONS WITH FIRESTOP MATERIAL. PROVIDE MATERIAL IN ACCORDANCE WITH ASTM E 814 AND UL 1479 3M OR APPROVED. COMPLY WITH REQUIREMENTS SPECIFIED IN DIVISION 07.
11. PROVIDE FIREBLOCKING AND DRAFT STOPPING AT MECHANICAL PENETRATIONS IN COMBUSTIBLE CONCEALED SPACES PER THE INTERNATIONAL BUILDING CODE.
12. REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
13. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
14. PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD. PAINT FOAM MATERIAL WHITE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
16. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
17. PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
18. PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
19. BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
20. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
21. MECHANICAL EQUIPMENT, PACKAGED UNITS, CONTROL PANELS, MOTOR STARTER, MOTOR CONTROLLERS, VARIABLE FREQUENCY DRIVES AND SIMILAR EQUIPMENT SHALL CARRY A SHORT CIRCUIT CURRENT RATING (SCCR) EQUAL TO OR GREATER THAN AVAILABLE FAULT CURRENT DELIVERED FROM ELECTRICAL SYSTEM. INCLUDE VISIBLE FACTORY NAMEPLATE FOR SUCH EQUIPMENT INDICATING SCCR OF EQUIPMENT IN ACCORDANCE WITH UL 1995 AND UL 508A.

PLUMBING:

1. DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, PLUMBING FITTINGS AND ALL OTHER APPURTENANCES IN CONTACT WITH DRINKING WATER SHALL BE LEAD-FREE EXCEPT THOSE EXPLICITLY EXEMPTED IN SECTION 3874 OF THE SAFE WATER DRINKING ACT. LEAD-FREE SHALL MEAN (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO WETTED SURFACES OF DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, AND PLUMBING FITTINGS.
2. PROVIDE WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING IN ACCORDANCE WITH PDI-WH 201. INCLUDE ON PIPING SERVING DOMESTIC DISHWASHING MACHINES.
3. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH BACKFLOW PREVENTER, WATER PRESSURE REDUCING VALVE, CONTROL VALVE, SOLENOID VALVE AND PUMP. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.
4. VALVES, EXPANSION FITTINGS/LOOPS, AND PIPING SPECIALTIES SHALL BE FULL SIZE OF PIPE UNLESS NOTED OTHERWISE.

PIPING:

1. PROVIDE AN AUTOMATIC AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER, CHILLED WATER, AND OTHER CLOSED WATER PIPING SYSTEMS. PIPE VENT TO NEAREST DRAIN. PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF RISERS AND LOW POINTS.
2. VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
3. VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
4. PROVIDE UNIONS AND/OR FLANGES AT EACH PIECE OF EQUIPMENT, AT EACH CONTROL VALVE, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
5. PROVIDE FLEXIBLE CONNECTORS IN PIPING SYSTEMS CONNECTED TO AIR HANDLING EQUIPMENT, PUMPS, CHILLERS, COOLING TOWERS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION.
6. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH BACKFLOW PREVENTER, WATER PRESSURE REDUCING VALVE, AUTOMATIC FLOW CONTROL VALVE, CONTROL VALVE, SOLENOID VALVE, GAS PRESSURE REGULATOR, AND PUMP. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.
7. VALVES, EXPANSION FITTINGS/LOOPS, AND PIPING SPECIALTIES SHALL BE FULL SIZE OF PIPE UNLESS NOTED OTHERWISE.

HVAC/SHEET METAL:

1. DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
2. THE ANNULAR SPACE AROUND DUCTS THAT PENETRATE NON-FIRE RESISTANCE-RATED FLOOR ASSEMBLIES (AND ARE NOT INSTALLED IN A RATED SHAFT ENCLOSURE) SHALL BE PROTECTED WITH AN IBC APPROVED NONCOMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.
3. PROVIDE TEMPORARY COVERS OVER OPEN ENDS OF EQUIPMENT AND DUCTWORK DURING CONSTRUCTION.
4. PROVIDE MANUAL VOLUME DAMPER FOR EACH DIFFUSER, REGISTER, AND GRILLE.
5. PROVIDE DUCT ACCESS DOORS AT DUCT SMOKE DETECTORS, BACKDRAFT DAMPERS, MOTORIZED CONTROL DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, DUCT MOUNTED COILS, DUCT AIRFLOW STATIONS AND LOUVER PLENUMS.
6. PROVIDE THE FOLLOWING MINIMUM BRANCH DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES, UNLESS NOTED TO USE LARGER SIZE ON DRAWINGS:
   - 6.1. 6"Ø: 100 CFM
   - 6.2. 8"Ø": 200 CFM
   - 6.3. 10"Ø: 300 CFM
   - 6.4. 12"Ø: 450 CFM
   - 6.5. 14"Ø: 600 CFM
   - 6.6. 16"Ø: 750 CFM

ENERGY CODE: *(WASHINGTON STATE ENERGY CODE)*

1. MOTORS: COMPLY WITH MINIMUM FULL LOAD EFFICIENCIES LISTED IN THE WASHINGTON STATE ENERGY CODE.
2. PIPING AND DUCT INSULATION: COMPLY WITH THICKNESS AND TYPES LISTED IN THE WASHINGTON STATE ENERGY CODE.
3. DUCT SEALING: SEAL DUCT TRANSVERSE JOINTS AND LONGITUDINAL SEAMS PER THE WASHINGTON STATE ENERGY CODE.
4. RECORD DRAWINGS: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
5. OPERATION AND MAINTENANCE MANUALS: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
6. MAINTENANCE STAFF SYSTEMS OPERATIONAL TRAINING: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
7. SYSTEM BALANCING: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
8. MECHANICAL SYSTEMS COMMISSIONING: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
9. THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH THE WASHINGTON STATE ENERGY CODE. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
10. BUILDING PRESSURE TESTING: COORDINATE PHASING OF BUILDING ENVELOPE LEAKAGE TESTING WITH MECHANICAL SYSTEM SCOPES OF WORK. TEMPORARILY CAP SYSTEMS AS REQUIRED TO FACILITATE LEAKAGE TESTING SCOPE OF WORK.

NON-STRUCTURAL MECHANICAL COMPONENTS:

1. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-16. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
2. IBC 1613.1 SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH CHAPTERS 11, 12, 13, 15, 17 AND 18 OF ASCE 7-16, AS APPLICABLE.
3. IBC 1705.11 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
4. HANGERS AND SEISMIC BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.

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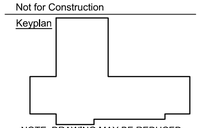
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NOTE: DRAWING MAY BE REDUCED

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MECHANICAL ABBREVIATIONS AND GENERAL NOTES

M0.02

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AIR SEPARATOR SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	VOLUME (GAL)	FLOW (GPM)	SYSTEM CONN (IN)	MAX WPD (FT HD)	DIMENSIONS (DIAxHT) (INxIN)	OPERATING WEIGHT (LBS)	NOTES
AS-01	HEATING WATER	MECHANICAL ROOM	SPIROTHERM / VDN-400							1, 2
AS-02	CHILLED WATER	MECHANICAL ROOM	SPIROTHERM / VDN-400							1, 2

NOTES:
1) HANG IN ACCESSIBLE LOCATION WITH SPACE FOR AUTOMATIC AIR VENT. PROVIDE SEISMIC BRACING.
2) ELEVATE MIN 6'6" AFF TO BOTTOM OF DEVICE.

SINGLE-DUCT AIR TERMINAL UNIT SCHEDULE

TAG	AREA SERVED	SERVED BY	MANUFACTURER / MODEL	PRIMARY AIRFLOW MAX (CFM)	PRIMARY AIRFLOW MIN (CFM)	INLET SIZE (IN)	OUTLET SIZE (IN)	INLET PRESSURE (IN WC)	PRESSURE DROP (IN WC)	NOTES
VAV-101	TYP CLASSROOM	DOAS	NAILOR 3001-9	500		9	14x12 1/2	0.5	0.5	1, 2, 3
VAV-102	TYP SCIENCE LAB	DOAS	NAILOR 3001-14	1200		14	24x12 1/2	0.5	0.5	1, 2, 3
VAV-103	TYP OFFICE	DOAS	NAILOR 3001-4	80		4	10x10	0.5	0.5	1, 2, 3

NOTES:
1) PROVIDE WITH ACCESS DOOR.
2) PROVIDE BELIMO ACTUATORS FOR PRIMARY AIR DAMPER.
3) FACTORY MOUNT SECTION 230900 FURNISHED CONTROLLERS.

DOMESTIC WATER HEAT PUMP STORAGE TANK SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	CAPACITY (GAL)	ARRANGEMENT (HOR/VERT)	PRESSURE RATING (PSIG)	RELIEF VALVE (PSIG)	HW INLET (IN)	HW OUTLET (IN)	DIMENSIONS (DIAxHT) (INxIN)	OPERATING WEIGHT (LBS)	NOTES
HPST-01	DOMESTIC HW	MECHANICAL	AO SMITH / TJVHP		VERT	125	125	3	3			1, 2

NOTES:
1) PROVIDE WITH INTERNAL BAFFLE DESIGNED TO ELIMINATE TURBULANCE IN THE TANK.
2) PROVIDE WITH MINIMUM R30 TANK INSULATION.

UNIT HEATER SCHEDULE

TAG	AREA SERVED	MANUFACTURER / MODEL	FAN	ELECTRIC HEATING			DIMENSIONS (LxWxHT)	WEIGHT	NOTES
			AIRFLOW	CAPACITY	AMPS	VOLTAGE/PHASE			
UH-01	ELECTRICAL	QMARK / MUH	350	3	3.6	480/3	16x14x8	30	1,2
UH-02	MECHANICAL	QMARK / MUH	350	3	3.6	480/3	16x14x8	30	1,2
UH-03	RISER	QMARK / MUH	350	3	3.6	480/3	16x14x8	30	1,2
UH-04	VESTIBULE	QMARK / EFF 4804	350	3.6	17.3	208/1	16x14x8	30	1, 4
UH-05	VESTIBULE	QMARK / EFF 4804	350	3.6	17.3	208/1	16x14x8	30	1, 4
UH-06	VESTIBULE	QMARK / EFF 4804	350	3.6	17.3	208/1	16x14x8	30	1, 4
UH-07	ENTRANCE	QMARK / AWH	-	3	14.4	208/1	20x16x4	30	1, 3, 4
UH-08	MECH ATTIC	QMARK / MUH	350	3	3.6	480/3	16x14x8	30	1,2
UH-09	MECH ATTIC	QMARK / MUH	350	3	3.6	480/3	16x14x8	30	1,2
UH-10	MECH ATTIC	QMARK / MUH	350	3	3.6	480/3	16x14x8	30	1,2

NOTES:
1) PROVIDE WITH DISCONNECT SWITCH AND TRANSFORMER/CONTACTOR FOR BAS LOW VOLTAGE CONTROL. COORDINATE CONTROL OPTIONS SECTION 230900 CONTRACTOR.
2) PROVIDE WITH MOUNTING BRACKET AND FAN GUARD.
3) RECESS IN WALL.
4) STANDARD COLOR BY ARCHITECT.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	CONNECTIONS										NOTES
		W	V	AW	AV	CW	HW (NOTE 1)	NPCW	NPHW (NOTE 1)	G	A	
P-1	WATER CLOSET	4"	2"	-	-	1-1/2"	-	-	-	-	-	5
P-1A	WATER CLOSET ADA	4"	2"	-	-	1-1/2"	-	-	-	-	-	5
P-1B	WATER CLOSET PRE KINDERGARTEN	4"	2"	-	-	1-1/2"	-	-	-	-	-	5
P-2	URINAL	2"	2"	-	-	3/4"	-	-	-	-	-	-
P-3A	STUDENT LAVATORY - WALL MOUNTED	2"	2"	-	-	1/2"	1/2"	-	-	-	-	3, 5
P-3B	STUDENT LAVATORY - COUNTER MOUNTED	2"	2"	-	-	1/2"	1/2"	-	-	-	-	3
P-4A	STAFF LAVATORY - WALL MOUNTED	2"	2"	-	-	1/2"	1/2"	-	-	-	-	3, 5
P-4B	STAFF LAVATORY - COUNTER MOUNTED	2"	2"	-	-	1/2"	1/2"	-	-	-	-	3
P-5	SERVICE SINK	3"	2"	-	-	3/4"	3/4"	-	-	-	-	-
P-6	CLASSROOM SINK	2"	2"	-	-	1/2"	1/2"	-	-	-	-	-
P-7	SINK - SINGLE COMPARTMENT	2"	2"	-	-	1/2"	1/2"	-	-	-	-	-
P-8	SINK - DOUBLE COMPARTMENT	2"	2"	-	-	1/2"	1/2"	-	-	-	-	-
P-9	HEALTH SINK	2"	2"	-	-	1/2"	1/2"	-	-	-	-	-
P-10	SCIENCE SINK W/ DILUTION TRAP	2"	2"	-	-	-	-	1/2"	1/2"	-	-	-
P-11	SINGLE [AIR] [GAS] OUTLET	-	-	-	-	-	-	-	-	[1/2"]	[1"]	-
P-12	DRINKING FOUNTAIN HI/LO	2"	2"	-	-	1/2"	-	-	-	-	-	-
P-13	DRINKING FOUNTAIN SINGLE	2"	2"	-	-	1/2"	-	-	-	-	-	-
P-14	DRINKING FOUNTAIN HI/LO WITH BOTTLE FILLING STATION	2"	2"	-	-	1/2"	-	-	-	-	-	120V/1Ø
P-15	SHOWER ADA - 36x36	2"	2"	-	-	1"	1"	-	-	-	-	-
P-16	SHOWER ADA - 62x36	2"	2"	-	-	1"	1"	-	-	-	-	-
P-17	EMERGENCY EYEWASH - WALL MOUNTED ABV SINK	-	-	-	-	3/4"	3/4"	-	-	-	-	-
P-18	EMERGENCY EYE/FACE WASH	2"	2"	-	-	3/4"	3/4"	-	-	-	-	-
P-19	EMERGENCY SHOWER/EYE/FACE WASH	4"	2"	-	-	1-1/2"	1-1/2"	-	-	-	-	2
P-20	INSTA-HOT	-	-	-	-	1/2"	-	-	-	-	-	120V/1Ø, 1300W
P-21	GARBAGE DISPOSER	2"	-	-	-	-	-	-	-	-	-	120V/1Ø, 1300W
P-22	DISHWASHER CONNECTION	2"	-	-	-	-	1/2"	-	-	-	-	4
P-23	REFRIGERATOR COLD WATER SERVICE BOX	-	-	-	-	1/2"	-	-	-	-	-	-
P-24	WASHER SERVICE BOX	2"	2"	-	-	1/2"	1/2"	-	-	-	-	-
HB-1	EXTERIOR NONFREEZE WALL HYDRANT	-	-	-	-	3/4"	-	-	-	-	-	-
HB-2	INTERIOR HOT AND COLD WALL HYDRANT	-	-	-	-	3/4"	3/4"	-	-	-	-	-
HB-3	EXTERIOR HOT AND COLD WALL HYDRANT	-	-	-	-	3/4"	3/4"	-	-	-	-	-
HB-5	ROOF NONFREEZE HYDRANT	-	-	-	-	1"	-	-	-	-	-	-
HB-4	YARD NONFREEZE HYDRANT	-	-	-	-	1"	-	-	-	-	-	-
TP	TRAP PRIMER	-	-	-	-	1/2"	-	-	-	-	-	120V/1Ø, 5 AMPS
FD-1	FLOOR DRAIN	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
FD-2	FLOOR DRAIN WITH SEDIMENT BUCKET	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
FD-3	HEAVY DUTY TRAFFIC RATED FLOOR DRAIN	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
FFD-1	FUNNEL FLOOR DRAIN	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
FS-1	FLOOR SINK	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
FS-2	FLOOR SINK	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
FS-3	FLOOR SINK	2", 3", 4"	2"	-	-	-	-	-	-	-	-	-
RD-1	ROOF DRAIN	4"	-	-	-	-	-	-	-	-	-	-
ORD-1	OVERFLOW ROOF DRAIN	4"	-	-	-	-	-	-	-	-	-	-
ON-1	OVERFLOW NOZZLE	2", 3", 4", 6"	-	-	-	-	-	-	-	-	-	5

NOTES:
1) SEE MAX PIPING LENGTH TO PLUMBING HOT WATER SUPPLY SCHEDULE TO MEET 2015 WASHINGTON STATE ENERGY CODE REQUIREMENTS.
2) PROVIDE DIRECT WASTE CONNECTION FROM EYEWASH DRAIN TO SANITARY SEWER SYSTEM. EYEWASH SHALL NOT DISCHARGE TO FLOOR.
3) PROVIDE WITH INDIVIDUAL FIXTURE WATER TEMPERING VALVES.
4) HOT WATER AND WASTE ROUTED TO ADJACENT SINK.
5) ELEVATE PER ARCHITECT.

DUCTLESS SPLIT-SYSTEM AIR-CONDITIONER AND HEAT PUMP UNIT SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER/MODEL	INDOOR FAN					HEAT PUMP HEATING				COOLING				ELECTRICAL OUTDOOR UNIT				DIMENSIONS INDOOR/OUTDOOR (LxWxHT) (INxINxIN)	WEIGHT INDOOR/OUTDOOR (LBS)	NOTES
				FLOW (CFM)	FLA (AMPS)	MCA (AMPS)	MOTOR (W)	VOLTAGE/ PHASE V/Ø	CAPACITY (BTU)	MINIMUM CAPACITY (BTU)	OUTDOOR AIR TEMP (°F)	COP	TOTAL CAPACITY (BTU)	MINIMUM CAPACITY (BTU)	OUTDOOR AIR TEMP (°F)	SEER / EER	MCA (AMPS)	MOCP (AMPS)	MAX FUSE (AMPS)	VOLTAGE/ PHASE V/Ø			
SAC-01/SCU-01	E MACHINE ROOM	E MACHINE ROOM	DAIKIN FTXS18LVJU / RXS18LVJU	484	0.32	1	48	208/1	21,600	5,800	47 / 17	3.7 / 2.73	24,000	10,000	95	17.9 / 10.8	13.8	20	20	208/1	10x38x12/14x34x36	30/125	1, 2, 3, 4, 5, 6, 7
SAC-02/SCU-02	MDF	MDF	DAIKIN FTK24BXVJU / RK18BXVJU	770	0.57	1	56	208/1	-	-	-	-	18,000	5,800	95	20.3 / 12.7	19.5	31	30	208/1	12x48x16/14x38x38	50/175	1, 2, 3, 4, 5, 6, 7

NOTES:
1) EFFICIENCIES ARE IN ACCORDANCE WITH AHRI STANDARD 210/240.
2) AIRSIDE ECONOMIZER NOT REQUIRED PER WSEC C403.3 EXCEPTION 10.
3) PROVIDE WITH WIRED REMOTE CONTROLLER. PROVIDE CONTROL/POWER WIRES AND REFRIGERANT PIPING FROM CONDENSING UNIT TO AC UNIT PER MANUFACTURERS RECOMMENDATIONS.
4) PROVIDE BAS WALL MOUNTED TEMPERATURE SENSOR FOR MONITORING/ALARM.
5) PROVIDE WITH WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 TO SHUT OFF EQUIPMENT SERVED IN THE EVENT THE PRIMARY CONDENSATE DRAIN IS BLOCKED.
6) PROVIDE WITH CONDENSATE PUMP.
7) PROVIDE WITH LOW AMBIENT COOLING CONTROL.

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MECHANICAL SCHEDULES

M0.03

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BUFFER TANK SCHEDULE

TAG	LOCATION	SYSTEM SERVED	MANUFACTURER / MODEL	CAPACITY (GAL)	INLET (IN)	OUTLET (IN)	DIMENSIONS (DIAxHT) (INxIN)	OPERATING WEIGHT (LBS)	NOTES
BT-01	MECHANICAL ROOM	HEATING WATER	TACO / BTL						
BT-02	MECHANICAL ROOM	HEATING WATER	TACO / BTH						

NOTES:
1) BUFFER TANK CONSTRUCTION SHALL COMPLY WITH ASME BOILER AND PRESSURE VESSEL CODE: SECTION VIII, DIV. 1.
2) PROVIDE INTERNAL BAFFLE.
3) PROVIDE ELASTOMERIC INSULATION ON CHILLED WATER BUFFER TANKS.
4) PROVIDE SILICON BLANKET INSULATION ON HEATING WATER BUFFER TANKS.
5) [PROVIDE VERTICAL [TOP] [BOTTOM] BAFFLE, [TOP] [BOTTOM] INLET, AND [TOP] [BOTTOM] OUTLET.]
6) PROVIDE PIPE CONNECTIONS SIZED PER PLANS.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	MANUFACTURER / MODEL	TYPE	MATERIAL (NOTE 13)	FINISH	FACE STYLE	FACE SIZE	DUCT INLET	MOUNTING	PATTERN	DAMPERS	ACCESSORIES	NOTES
A	PRICE / SCDA	SQUARE CEILING DIFFUSER	ST	WHITE	-	NOTE 1	NOTE 3	NOTE 4	ADJ	NONE	-	14
B	PRICE / SMCD	MODULAR CORE SUPPLY DIFFUSER	ST	WHITE	-	NOTE 2	NOTE 3	NOTE 4	-	NONE	-	7
C	PRICE / SMDA	LOUVER FACE DIFFUSER	ST	WHITE	-	NOTE 2	NOTE 3	NOTE 4	ADJ	NONE	-	14
D	PRICE / HCD	DRUM LOUVER	AL	WHITE	-	NOTE 2	NOTE 3	SURFACE/DUCT	-	NONE	-	-
E	PRICE / 80F	EGGCRATE GRILLE	AL	WHITE	-	NOTE 2	NOTE 3	NOTE 4	-	NONE	-	-
F	DUCTSOX	FLEXIBLE DIFFUSION OUTLET	WOVEN	NOTE 8	-	-	-	-	-	-	-	-
H	PRICE / 90	HEAVY DUTY RETURN GRILLE	ST	NOTE 8	-	NOTE 2	NOTE 3	NOTE 4	-	NONE	-	-
H	KEES / GHD	HEAVY DUTY RETURN GRILLE	ST	NOTE 8	-	NOTE 2	NOTE 3	NOTE 4	-	NONE	-	-
J	PRICE / 90	LINEAR BAR DIFFUSER	AL	WHITE	-	-	NOTE 3	NOTE 5	-	NONE	BO, DB	-
K	PRICE / SDS	LINEAR SLOT DIFFUSER	AL	NOTE 6	-	-	-	NOTE 5	FA	NONE	BO, P	14
L	NOTE 9	LOUVER	AL	NOTE 10	-	-	NOTE 11	NOTE 12	-	-	-	-
S	PRICE / 520RS	SUPPLY GRILLE	ST	NOTE 8	-	NOTE 2	NOTE 3	NOTE 4	FA	NONE	-	14
R	PRICE / 530RL	RETURN / EXHAUST GRILLE	ST	NOTE 8	-	NOTE 2	NOTE 3	NOTE 4	-	NONE	-	-
O	PRICE / RCD	ROUND CEILING DIFFUSER	ST	WHITE	3 CONE	-	NOTE 3	DUCT	FA	NONE	-	-
P	PRICE / PDF	PERFORATED DIFFUSER	ST	WHITE	-	-	-	NOTE 4	ADJ	NONE	-	14
T	PRICE / SPJD	LOW FLOW CEILING DIFFUSER	ST	WHITE	PLAQUE	24x24	6"	NOTE 4	-	NONE	-	-
W	PRICE / RTD	SWIRL INDUCTION DIFFUSER	ST	WHITE	-	NOTE 1	-	NOTE 4	-	NONE	-	-

NOTES:
1) SEE DRAWINGS FOR FACE SIZE (24x24 OR 12x12). PROVIDE 24x24 FOR LAY IN CEILINGS.
2) FACE SIZE DETERMINED FROM DUCT INLET SIZE.
3) SEE AIR DEVICE TAG FOR DUCT INLET SIZE.
4) COORDINATE BORDER TYPE (SURFACE MOUNT, SNAP IN, LAY-IN, SPLINE, DROPPED FACE, AND BEVELED DROP FACE) WITH ARCHITECTURAL CEILING PLANS.
5) COORDINATE BORDER TYPE WITH ARCHITECTURAL CEILING DETAILS.
6) PROVIDE BLACK FOR FACE AND SHELL, BLACK PATTERN CONTROLLER, AND WHITE TEES.
7) PROVIDE FOUR GRILLES PER UNIT, WITH [ADJUSTABLE BLADES] [REMOVABLE, ROTATABLE MODULES].
8) PROVIDE CUSTOM COLOR PER [ARCHITECT] [ENGINEER].
9) [PROVIDED BY OTHERS.]
10) PROVIDE KYNAR FINISH, COLOR PER [ARCHITECT] [ENGINEER].
11) DUCT SIZE SHALL MATCH LOUVER SIZE UNLESS OTHERWISE NOTED.
12) SEE DETAIL FOR MOUNTING REQUIREMENTS.
13) PROVIDE ALUMINUM DIFFUSERS, REGISTERS AND GRILLES IN KITCHENS, LOCKER ROOMS, ROOMS CONTAINING SHOWERS AND OTHER AREAS SUBJECT TO MOISTURE.
14) PROVIDE WITH FIELD ADJUSTABLE VERTICAL TO HORIZONTAL DISCHARGE PATTERN.

ABBREVIATIONS:
ST = STEEL, AL = ALUMINUM, BE = BAKED ENAMEL, AA = ANODIZED ALUMINUM, FA = FULLY ADJUSTABLE, TP = TWO POSITION, OPD = OPPOSED BLADE DAMPERS, ADJ = ADJUSTABLE, BA = BAKED ACRYLIC, BO = BLANK OFF, DB = DIRECTIONAL BLADES, AND P = PLENUM.

ELECTRIC PRIMARY WATER HEATER SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	CAPACITY (GAL)	RECOVERY AT 100°F (GPH)	TEMP SETTING (F)	CAPACITY (KW)	ELEMENTS (#)	CW INLET (IN)	HW OUTLET (IN)	GPM	EWT (F)	LWT (F)	ELECTRICAL AMPS	ELECTRICAL VOLTAGE/PHASE (V/Ø)	DIMENSIONS [(DIAxHT)] [(LxWxH)] [(INxIN)] [(INxINxIN)]	OPERATING WEIGHT (LBS)	NOTES
EPWH-01	DOMESTIC HOT WATER PRIMARY	MECH	AO SMITH / DSE												460/3			1, 2

NOTES:
1) [ELECTRICAL RESISTANCE PRIMARY SERVICE IS SIZED FOR MAXIMUM 75% OF THE CALCULATED DEMAND FOR HOT WATER PRODUCTION DURING THE PEAK DEMAND PERIOD AT 24°F OUTDOOR AIR TEMPERATURE.]
1) [ELECTRICAL RESISTANCE PRIMARY SERVICE IS SIZED FOR MAXIMUM 50% OF THE CALCULATED DEMAND FOR HOT WATER PRODUCTION DURING THE PEAK DEMAND PERIOD AT 44°F ENTERING SOURCE WATER TEMPERATURE.]
2) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. [REFER TO ELECTRICAL FOR MINIMUM RATINGS.] [PROVIDE MINIMUM SCCR OF 65,000 AMPS.]

ELECTRIC SUPPLEMENTAL WATER HEATER SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	CAPACITY (GAL)	RECOVERY AT 100°F (GPH)	TEMP SETTING (F)	CAPACITY (KW)	ELEMENTS (#)	CW INLET (IN)	HW OUTLET (IN)	GPM	EWT (F)	LWT (F)	ELECTRICAL AMPS	ELECTRICAL VOLTAGE/PHASE (V/Ø)	DIMENSIONS [(DIAxHT)] [(LxWxH)] [(INxIN)] [(INxINxIN)]	OPERATING WEIGHT (LBS)	NOTES
ESWH-01	DOMESTIC HOT WATER SUPPLEMENTARY	MECH	AO SMITH / DSE												-	460/3	-	1, 2

NOTES:
1) TOTAL ELECTRICAL RESISTANCE SUPPLEMENTAL WATER HEATING OUTPUT CAPACITY IS LESS THAN THE PRIMARY WATER HEATING EQUIPMENT AT A 40°F OUTDOOR AIR TEMPERATURE.
2) [ELECTRICAL RESISTANCE SUPPLEMENTAL WATER HEATING SHALL NOT OPERATE AT OUTDOOR AIR TEMPERATURES GREATER THAN 40°F AND PRIMARY HEAT PUMP WATER HEATERS SHALL CONTINUE TO OPERATE TOGETHER WITH SUPPLEMENTAL HEATING.]
3) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. [REFER TO ELECTRICAL FOR MINIMUM RATINGS.] [PROVIDE MINIMUM SCCR OF 65,000 AMPS.]

ELECTRIC WATER HEATER SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	CAPACITY (GAL)	TEMP SETTING (F)	CAPACITY (KW)	CW INLET (IN)	HW OUTLET (IN)	VOLTAGE/PHASE (V/Ø)	DIMENSIONS (DIAxHT) (INxIN)	OPERATING WEIGHT (LBS)	NOTES
EWH-01	NONPOTABLE DOMESTIC HOT WATER	MECH ATTIC	AO SMITH / DEL-10S	10	120	3	1/2	1/2	208/1	19x18	150	1, 2, 3

NOTES:
1) PROVIDE WITH 4" HOUSEKEEPING PAD AND DRAIN PAN.
2) PROVIDE SEISMIC RESTRAINTS TO HOUSEKEEPING PAD AND UNISTRUT FRAME.
3) ELECTRIC WATER HEATERS IN UNCONDITIONED SPACES OR ON CONCRETE FLOORS SHALL BE PLACED ON AN INCOMPRESSIBLE, INSULATED SURFACE WITH A MINIMUM THERMAL RESISTANCE OF R-10.

ELECTRONIC MIXING VALVE SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	SYSTEM SERVED	TEMPERED WATER TEMP (F)	VALVE SIZE (IN)	TEMPERED WATER FLOW (GPM)	TEMPERED WATER MIN FLOW (GPM)	MIN BLDG RECIRC (GPM)	PRESSURE DROP (PSIG)	INLET SIZE (IN)	OUTLET SIZE (IN)	ELECTRICAL VOLTAGE/PHASE (V/Ø)	NOTES
EMV-01	BUILDING	MECH	HEAT TIMER / ETV PLATINUM PLUS										120/1	
EMV-02	KITCHEN	MECH	HEAT TIMER / ETV PLATINUM PLUS										120/1	

NOTES:
1) PROVIDE WITH MIXING VALVE CONTROLLER WITH BUILT IN CONTROL LOGIC, LED DIGITAL DISPLAY, INLET HOT AND COLD WATER TEMPERATURE SENSOR INPUTS, OUTLET HOT WATER TEMPERATURE SENSOR INPUT, HIGH TEMP ALARM OUTPUT, BACNET INTERFACE AND BATTERY BACK UP POWER SUPPLY.
2) [PROVIDE WITH OPTIONAL MOTORIZED STAINLESS BALL SAFETY VALVE.]

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EXPANSION TANK SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	SYSTEM CONN (IN)	DIMENSIONS (DIAxHT) (INxIN)	OPERATING WEIGHT (LBS)	NOTES
ET-01	HEATING WATER	MECHANICAL	AMTROL / 400-L						1, 2, 3, 5
ET-02	CHILLED WATER	MECHANICAL	AMTROL / 300-L						1, 2, 3, 5
DET-01	DOMESTIC HW	MECHANICAL	AMTROL / 200-L						1, 3, 4
DET-02	DOMESTIC CW	MECHANICAL	AMTROL / ST-12C						1, 3, 4
DET-03	NONPOTABLE HW	MECH ATTIC	AMTROL / ST-20VC						1, 3, 4

NOTES:
1) PROVIDE WITH SIGHT GLASS AND SEISMIC RESTRAINTS.
2) CHARGE TANK TO MAINTAIN MIN 4 PSI AT HIGH POINT IN SYSTEM.
3) ASME RATED TANK.
4) CHARGE TANK TO MATCH INCOMING PRESSURE AT DEVICE CONNECTION.
5) LOCATE TANK ON HOUSEKEEPING PAD.

PUMP SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	FLOW (GPM)	HEAD (FT)	FLUID	HP (HP)	RPM (RPM)	VOLTAGE/PHASE V/Ø	DIMENSIONS (LxWxHT) (INxINxIN)	OPERATING WEIGHT (LBS)	NOTES
PU-01	HEATING WATER	MECHANICAL	TACO				15	1800	480/3			
PU-02	HEATING WATER	MECHANICAL	TACO				15	1800	480/3			
PU-03	CHILLED WATER	MECHANICAL	TACO				20	1800	480/3			
PU-04	CHILLED WATER	MECHANICAL	TACO				20	1800	480/3			
PU-B01	B-01 CIRC	MECHANICAL	TACO				1.5	1800	480/3			
DPU-01	SUPPLEMENTARY WATER HEATER PUMP	MECHANICAL	TACO				1/6	3300	120/1			
DPU-02	PRIMARY WATER HEATER PUMP	MECHANICAL	TACO				1/6	3300	120/1			
DPU-03	DOMESTIC HOT WATER CIRC	MECHANICAL	TACO				1/6	3300	120/1			
DPU-04	KITCHEN HOT WATER CIRC	MECHANICAL	TACO				1/6	3300	120/1			
DPU-05	NONPOTABLE HW CIRC	MECH ATTIC	TACO				1/6	3300	120/1			

NOTES:
1) PROVIDE PUMPS WITH MOTOR SHAFT GROUNDING SYSTEM AND VFD BY 230900 FOR VARIABLE FLOW CAPACITY CONTROL.
2) SEISMICALLY MOUNT PUMP TO HOUSEKEEPING PAD.
3) PUMPS ARE SIZED FOR LEAD/STANDBY OPERATION.
4) PUMPS ARE SIZED FOR LEAD/LAG OPERATION.
5) BALANCE HOT WATER RECIRC CIRCUIT SETTERS TO 0.75 GPM EACH.
6) PROVIDE PUMPS WITH VARIABLE SPEED EC MOTORS. PUMP SPEED SHALL VARY BASED ON SYSTEM DEMAND.

ELECTRIC BOILER SCHEDULE

TAG	LOCATION	MANUFACTURER / MODEL	HEATING MEDIUM	DESIGN PRESSURE (PSIG)	RELIEF VALVE (PSIG)	WATER VOLUME (GAL)	TURNDOWN	HEATING CAPACITY (MBH)	HEAD LOSS (FT)	EWT (°F)	LWT (°F)	DESIGN FLOW (GPM)	MIN FLOW (GPM)	HYDRONICS RUNOUT (IN)	ELECTRICAL KW (KW)	ELECTRICAL FLA (AMPS)	ELECTRICAL MCA (AMPS)	ELECTRICAL MOP (AMPS)	ELECTRICAL VOLTAGE/PHASE (V/Ø)	DIMENSIONS (LxWxHT) (INxINxIN)	OPERATING WEIGHT (LBS)	NOTES
B-01	MECHANICAL	PRECISION / PCW	WATER				SCR															

NOTES:
1) [BOILER SHALL BE LOCKED OUT WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 36 DEG F.]
1) [BOILER SHALL BE LOCKED OUT WHEN THE HEAT PUMP SOURCE-SIDE ENTERING WATER TEMPERATURE IS ABOVE 42 DEG F, UNLESS THE HOT WATER SUPPLY TEMPERATURE SETPOINT TO THE BUILDING HEAT COILS CANNOT BE MAINTAINED FOR 20 MINUTES.]
2) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. [REFER TO ELECTRICAL FOR MINIMUM RATINGS.] [PROVIDE MINIMUM SCCR OF 65,000 AMPS.]
3) PROVIDE WITH SCR STEP CONTROL FOR INTERSTAGE MODULATING CONTROL.
4) PROVIDE WITH FUSED DISCONNECT, UL508A PANEL LABEL, AND ELECTRICAL SAFETY DOOR INTERLOCK.
5) PROVIDE WITH HARD WIRED CONTROL CONTROL INPUTS FOR START/STOP AND CAPACITY CONTROL. PROVIDE HARD WIRED CONTROL OUTPUTS FOR ALARM[, LOW WATER AND BOILER STATUS]. PROVIDE BACNET INTERFACE FOR ALL OTHER CONTROL INPUTS.
6) [PROVIDE WALL MOUNTED BACNET GATEWAY PANEL TO SERVE ALL BOILERS. PROVIDE CONTROL WIRING FROM GATEWAY TO EACH BOILER CONTROLLER PER BOILER MFR. PROVIDE 120V/1 POWER TO WALL MOUNTED GATEWAY PANEL.]

AIR SOURCE HEAT PUMP WATER HEATER SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	TYPE	REFRIGERANT	CAPACITY AT DESIGN DAY [__ °F] OAT (MBH)	CAPACITY AT 24°F OAT (MBH)	CAPACITY AT 40°F OAT (MBH)	RECOVERY AT 90°F RISE (GPH) (NOTE 1)	TEMP SETTING (F)	CW INLET (IN)	HW OUTLET (IN)	FLOW RATE AT [__ °F] OAT (GPM)	MAX FLOW RATE (GPM)	EXTERNAL PRESSURE DROP (FT HD)	COP (NOTE 4)	FAN TYPE	AIR FLOW RATE (CFM)	ELECTRICAL MCA (AMPS)	ELECTRICAL MOP (AMPS)	ELECTRICAL VOLTAGE/PHASE (V/Ø)	DIMENSIONS (LxWxH) (INxINxIN)	OPERATING WEIGHT (LBS)	NOTES
HPWH-01	DOMESTIC HW	SERVICE YARD	AO SMITH / AHPA-___	SCROLL	R-513A					120	1-1/2	1-1/2									460/3			1, 2, 6, 7

NOTES:
1) RECOVERY RATE BASED ON WATER HEATED FROM 50°F TO 140°F WITH 75°F ENTERING AIR TEMPERATURE AND 60% RELATIVE HUMIDITY.
2) COMBINED HEAT PUMP SYSTEM RATED HEATING CAPACITY AT 40 DEG F DRY BULB IS NO LESS THAN 50% OF THE DESIGN SERVICE WATER HEATING LOAD.
3) COMBINED HEAT PUMP RATED HEATING CAPACITY AT 24 DEG F DRY BULB IS NO LESS THAN 25% OF THE PEAK SERVICE WATER HEATING DEMAND.
4) COP BASED ON WATER HEATED FROM 50°F TO 140°F WITH [__°F] ENTERING AIR TEMPERATURE.
5) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. [REFER TO ELECTRICAL FOR MINIMUM RATINGS.] [PROVIDE MINIMUM SCCR OF 65,000 AMPS.]
6) PROVIDE WITH DUAL POWER FEED FOR GENERATOR BACK UP OF FREEZE PROTECTION.
7) PROVIDE WITH FACTORY FURNISHED DIGITAL TANK THERMOSTAT [AND BACNET GATEWAY].
8) PROVIDE WITH FACTORY INSTALLED LOW AMBIENT KIT AND EVAPORATOR COIL CORROSIVE DUTY PACKAGE.

AIR TO WATER HEAT PUMP SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	TYPE	REFRIGERANT	FLUID TYPE	HYDRONICS RUNOUT (IN)	# OF CIRCUITS (#)	FANS QTY FANS (#)	COMPRESSORS QTY (#)	PUMP GPM (#)	PUMP HEAD (AMPS)	HEATING CAPACITY AT [28] (MBH)	HEATING CAPACITY AT 36F (MBH)	HEATING CAPACITY AT 47F (MBH)	HEATING FLOW (GPM)	HEATING EWT (F)	HEATING LWT (F)	HEATING WPD (FT HD)	HEATING COP (NOTE 1)	COOLING CAPACITY AT [88] (MBH)	COOLING FLOW (GPM)	COOLING EWT (F)	COOLING LWT (F)	COOLING WPD (FT HD)	COOLING EER (NOTE 1)	COOLING IPLV (NOTE 1)	ELECTRICAL POWER INPUT (KW)	ELECTRICAL MCA (AMPS)	ELECTRICAL MOP (AMPS)	ELECTRICAL VOLTAGE/PHASE V/Ø	DIMENSIONS (LxWxHT) (INxINxIN)	WEIGHT (LBS)	NOTES
AWHP-01	BUILDING	SERVICE YARD	AERMEC / NYG	SCROLL	R-454B																									460/3			
AWHP-01	BUILDING	SERVICE YARD	AERMEC / NYG	SCROLL	R-454B																									460/3			

NOTES:
1) EFFICIENCIES ARE IN ACCORDANCE WITH AHRI STANDARD 550/590. COP RATED AT [105] [120] [140] DEG F LEAVING HEATING WATER TEMPERATURE.
2) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. [REFER TO ELECTRICAL FOR MINIMUM RATINGS.] [PROVIDE MINIMUM SCCR OF 65,000 AMPS.]
3) USER INTERFACE SHALL BE MOUNTED ON MODULE BY FACTORY WITHIN NEMA 4X WEATHERPROOF ENCLOSURE AT A LOCATION THAT DOES NOT IMPEDE ON MAINTENANCE ACCESS TO UNIT.
4) PROVIDE HEAT TRACE ON REFRIGERANT TO WATER HEAT EXCHANGER. HEAT TRACE SHALL BE PROVIDED WITH SEPARATE 120/1 POWER CONNECTION [AND POWERED BY EMERGENCY GENERATOR].
5) RATED HEATING CAPACITY AT 47 DEG F IS NO LESS THAN 75% OF THE DESIGN HEATING LOAD AT 29 DEG F.
6) CONTROLS SHALL BE CONFIGURED TO USE THE COMPRESSOR AS THE FIRST STAGE OF HEATING DOWNS TO THE LOWEST EXTERIOR DESIGN TEMPERATURE FOR WHICH THE EQUIPMENT IS RATED EXCEPT FOR DURING START UP OR DEFROST OPERATION.
7) HEATING CAPACITY INCLUDES DERATE DUE TO DEFROST. IF EQUIPMENT SELECTION SOFTWARE DOES NOT INCLUDE DEFROST DERATE, HEAT PUMP SHALL BE SELECTED WITH GREATER HEATING CAPACITY AND A DESCRIPTION OF DEFROST OPERATION AND DERATE CALCULATION SHALL BE INCLUDED IN SUBMITTAL.
8) PROVIDE WITH OUTDOOR THERMAL DISPERSION TYPE FLOW SWITCH (FIELD INSTALLED).
9) PROVIDE WITH LOW AMBIENT COOLING CONTROL DOWN TO 50 DEG F.

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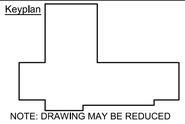
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EXHAUST FAN SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	FAN			MOTOR				DRIVE TYPE	CONTROL	DIMENSIONS (LxWxHT) (INxINxIN)	WEIGHT (LBS)	NOTES
				FLOW (CFM)	ESP (IN WC)	SPEED (RPM)	POWER (HP)	SPEED (RPM)	TYPE	VOLTAGE/PHASE (V/Ø)					
EF-01	ELECTRICAL	ELECTRICAL	GREENHECK / SQ				1/2	1725	ECM	115/1	DIRECT				
EF-02	MAIN CUSTODIAL	MAIN CUSTODIAL	GREENHECK / SQ				1/4	1725	ECM	115/1	DIRECT				
EF-03	BOILER ROOM	BOILER ROOM	GREENHECK / SQ				1/2	1725	ECM	115/1	DIRECT				
EF-04	CUSTODIAL	CUSTODIAL	GREENHECK / SQ				1/6	1725	ECM	115/1	DIRECT				
EF-05	ELECTRICAL	ELECTRICAL	GREENHECK / SQ				1/6	1725	ECM	115/1	DIRECT				
EF-06	CUSTODIAL	CUSTODIAL	GREENHECK / SQ				1/6	1725	ECM	115/1	DIRECT				
EF-07	HEALTH ROOM	HEALTH ROOM	GREENHECK / SQ				1/6	1725	ECM	115/1	DIRECT				
EF-08	KITCHEN	ROOF	GREENHECK / CUE				1	1725	ECM	115/1	DIRECT				
EF-09	FUME HOOD	ROOF	GREENHECK / USFD				1/2	1725	ECM	115/1	DIRECT				
TF-01	KITCHEN TRANSFER	ROOF	GREENHECK / SQ				1	1725	ECM	115/1	DIRECT				

NOTES:
1) FANS OR FAN ARRAYS WITH A COMBINED MOTOR HP > 1 (KW > 0.75) OR ELECTRICAL IMPUT POWER > 0.89 KW SHALL HAVE A FAN ENERGY INDEX (FEI) OF NOT LESS THAN 1.00 (CONSTANT VOLUME) AND 0.95 (VARIABLE VOLUME) AT THE DESIGN POINT OF OPERATION, AS DETERMINED IN ACCORDANCE WITH AMCA 208 BY AN APPROVED, INDEPENDENT TESTING LABORATORY AND LABELED BY THE MANUFACTURER. FEI FOR FAN ARRAYS SHALL BE CALCULATED IN ACCORDANCE WITH AMCA 208 ANNEX C.
2) PROVIDE WITH GREENHECK VARI-GREEN CONSTANT PRESSURE CONTROLLER.

DEDICATED OUTSIDE AIR SYSTEM "DOAS" AIR-HANDLING UNIT SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	SUPPLY FANS								RETURN/EXHAUST] FANS								ENERGY RECOVERY								DIMENSIONS	WEIGHT	NOTES
				AIRFLOW (CFM)	QTY FANS (#)	ESP (IN)	MOTOR (#-HP)	MAX SPEED (RPM)	FLA (AMPS)	MCA (AMPS)	MOP (AMPS)	VOLTAGE/ PHASE (V/Ø)	AIRFLOW (CFM)	QTY FANS (#)	ESP (IN)	MOTOR (#-HP)	MAX SPEED (RPM)	FLA (AMPS)	MCA (AMPS)	MOP (AMPS)	VOLTAGE/ PHASE (V/Ø)	HX TOTAL EFF (%)	HX SENS EFF (%)	EATR (%)	HX [MAX] AIRFLOW (CFM)	HX MIN AIRFLOW (CFM)	SUPPLY HX VEL/APD (FPM/IN)	EXHAUST HX VEL/APD (FPM/IN)	SUPPLY WINTER EAT DB (°F)	SUPPLY WINTER LAT DB/WB (°F)	SUPPLY SUMMER EAT DB (°F)	SUPPLY SUMMER LAT DB (°F)	EXHAUST WINTER EAT DB/WB (°F)	EXHAUST WINTER LAT DB/WB (°F)	EXHAUST SUMMER EAT DB (°F)	EXHAUST SUMMER LAT DB (°F)	(LxWxHT) (INxINxIN)	(LBS)	
DOAS-01	CLASSROOM WEST	MECH ATTIC	AAON	6,000		2.25						460/3	6,000		1.25						460/3	60	68				500/.15	500/.15	24		83		70/52.5		75/65				
DOAS-02	CLASSROOM EAST	MECH ATTIC	AAON	8,000		2.25						460/3	8,000		1.25						460/3	60	68				500/.15	500/.15	24		83		70/52.5		75/65				

NOTES:
1) FANS OR FAN ARRAYS WITH A COMBINED MOTOR HP > 5 (KW > 3.7) OR ELECTRICAL IMPUT POWER ≥ **4.1 KW** SHALL HAVE A FAN ENERGY INDEX (FEI) OF NOT LESS THAN 1.00 (CONSTANT VOLUME) AND 0.95 (VARIABLE VOLUME) AT THE DESIGN POINT OF OPERATION, AS DETERMINED IN ACCORDANCE WITH AMCA 208 BY AN APPROVED, INDEPENDENT TESTING LABORATORY AND LABELED BY THE MANUFACTURER. FEI FOR FAN ARRAYS SHALL BE CALCULATED IN ACCORDANCE WITH AMCA 208 ANNEX C.
2) PROVIDE [FANS WITH VFD AND MOTOR SHAFT GROUNDING SYSTEM] [ECM FANS] FOR VARIABLE FLOW CAPACITY CONTROL.
3) [PROVIDE GAS FURNACE WITH INTERMITTENT IGNITION OR INTERRUPTED DEVICE, POWER VENTING, AND JACKET LOSS NOT EXCEEDING 0.75% OF THE INPUT RATING.]
4) DAMPERS: AMCA CLASS 1A. [OUTSIDE AIR AND EXHAUST AIR ISOLATION DAMPERS]. [RECIRCULATION DAMPER]. [FACE AND BYPASS DAMPERS AT [HEAT EXCHANGER] [PRE-HEAT COIL]].
5) [PROVIDE WITH AIRSIDE ECONOMIZER.] [AIRSIDE ECONOMIZER NOT REQUIRED PER WSEC C403.5 EXCEPTION [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11].]
6) [PROVIDE WITH HOT GAS BYPASS. PROVIDE [STAGED COMPRESSOR CONTROL] [MODULATING COMPRESSOR CONTROL]. MAXIMUM HOT GAS BYPASS CAPACITY SHALL BE 50% FOR RATED CAPACITIES ≤ 240 MBH AND 25% FOR RATED CAPACITIES ≥ 240 MBH.]
7) [ENERGY RECOVERY NOT REQUIRED. OCCUPANT LOAD IS GREATER THAN 25 PEOPLE PER 1000SF. PROVIDE WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION.]
8) [ENERGY RECOVERY NOT REQUIRED. DOAS SYSTEMS SOLE PURPOSE IS TO PROVIDES MAKE UP AIR FOR SYSTEMS EXHAUSTING TOXIC, FLAMMABLE, PAINT, OR CORROSIVE FUMES OR DUST, DRYER EXHAUST, OR COMMERCIAL KITCHEN HOODS.]
9) [ENERGY RECOVERY SHALL BE [FIXED PLATE COUNTERFLOW ENTHALPIC] [FIXED PLATE CROSSFLOW ENTHALPIC] [ENTHALPY WHEEL WITH PURGE SECTION] [DUAL CORE REVERSE FLOW]. ENERGY RECOVERY IS RATED AT HEATING DESIGN OUTSIDE AIR TEMPERATURE AND A RETURN/EXHAUST TEMPERATURE OF 70°F DRY BULB AND 30 PERCENT RELATIVE HUMIDITY.]
10) [PROVIDE MOTORIZED DAMPERS ON THE CORES TO ALLOW FOR VARIABLE AIRFLOW OPERATION. QUANTITY OF DAMPERS SHALL PROVIDE EFFICIENCY BETWEEN 93% AND 76% AT ALL AIRFLOWS BETWEEN MAX AND MIN HEAT RECOVERY CFM.]
11) [PROVIDE REMOVABLE SIDE ACCESS PANEL FOR CORE REMOVAL. WHERE MOTORIZED DAMPERS AND DIVIDER PANELS ARE PROVIDED, DIVIDER PANELS SHALL BE REMOVABLE THROUGH SIDE ACCESS PANEL.]
12) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. REFER TO ELECTRICAL FOR MINIMUM RATINGS.
13) SUPPLY FAN [ARRAY]: CLASS [I] [II] [III], [STEEL] [ALUMINUM], [DWDI BACKWARD-INCLINED CENTRIFUGAL] [DWDI FORWARD-CURVED CENTRIFUGAL] [DWDI AIRFOIL CENTRIFUGAL] [AIRFOIL CENTRIFUGAL PLENUM], DIRECT DRIVE. [PROVIDE SPRING ISOLATORS ON FAN.]
14) [RETURN] [EXHAUST] FAN: CLASS [I] [II] [III], [STEEL] [ALUMINUM], [DWDI BACKWARD-INCLINED CENTRIFUGAL] [DWDI FORWARD-CURVED CENTRIFUGAL] [DWDI AIRFOIL CENTRIFUGAL] [AIRFOIL CENTRIFUGAL PLENUM], DIRECT DRIVE. [PROVIDE SPRING ISOLATORS ON FAN.]
15) FILTERS: [2 INCH PRE-FILTER] [AND] [4] INCH FINAL FILTER [ON OUTSIDE AIR]. [2 INCH PRE-FILTER ON RETURN/EXHAUST.]
16) PROVIDE WITH (1) [480V/3] PHASE POWER CONNECTION FOR UNIT POWER [AND (1) 120V/1 CONNECTION FOR INTERIOR LIGHTING[AND RECEPTACLE]. LIGHTING SHALL BE LED.]
17) [PROVIDE 1 SPARE MOTOR FOR EACH EC MOTOR SIZE.]
18) [PROVIDE 1 HAND HELD EC PROGRAMMER FOR EACH MOTOR SIZE RANGE.]
19) [PROVIDE FLOW MONITORING STATION FOR ECM FAN/FAN ARRAY.]
20) [PROVIDE SPRING ISOLATION ON FANS] [PROVIDE NEOPRENE ISOLATORS ON FANS].
21) [PROVIDE COILS WITH VERTICAL SPLIT SECTIONS TO ENABLE FUTURE COIL REMOVAL AND REPLACEMENT.]
22) PROVIDE FIELD INSTALLED ELECTRICAL WIRING AS REQUIRED FOR SECTIONS SHIPPED SEPARATELY OR FOR KNOCKDOWN CONSTRUCTION.
23) [PROVIDE BACKDRAFT DAMPERS AT EACH FAN WITHIN FAN ARRAY. BACKDRAFT DAMPERS SHALL PREVENT RECIRCULATION THROUGH FAN DURING FAN FAILURE.] [PROVIDE FAN BLANK OFF PANELS SHIPPED LOOSE FOR MAINTENEANCE INSTALL AT FAN ARRAY FAN DURING FAN FAILURE. BLANK OFF PANELS SHALL PREVENT RECIRCULATION THROUGH FAN DURING FAN FAILURE.]

HIGH EFFICIENCY VAV SINGLE ZONE AIR-HANDLING UNIT SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	SUPPLY FANS								HEATING WATER COIL								CHILLED WATER COIL											DIMENSIONS	WEIGHT	NOTES
				AIRFLOW (CFM)	QTY FANS (#)	ESP (IN)	MOTOR (#-HP)	MAX SPEED (RPM)	FLA (AMPS)	MCA (AMPS)	MOP (AMPS)	VOLTAGE/ PHASE (V/Ø)	TOTAL CAPACITY (MBH)	MAX AIR VEL/APD (FPM/IN)	EAT (°F)	LAT (°F)	FLOW (GPM)	MAX WATER VEL/WPD (FPS/FT HD)	EWT/LWT (°F/°F)	HWS/R RUNOUT SIZE (IN)	CONTROL VALVE TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MAX AIR VEL/APD (FPM/IN)	EAT DB/WB (°F/°F)	LAT DB/WB (°F/°F)	FLOW (GPM)	MAX WATER VEL/WPD (FPS/FT HD)	EWT/LWT (°F/°F)	CHWS/R RUNOUT SIZE (IN)	CONTROL VALVE TYPE	(LxWxHT) (INxINxIN)	(LBS)	
AHU-01	GYM	MECH ATTIC	AAON	6,000		1.5						460/3		500/.15				4/10						450/.25				4/10						
AHU-02	COMMONS	MECH ATTIC	AAON	3,500		1.5						460/3		500/.15				4/10						450/.25				4/10						

NOTES:
1) FANS OR FAN ARRAYS WITH A COMBINED MOTOR HP > 5 (KW > 3.7) OR ELECTRICAL IMPUT POWER ≥ **4.1 KW** SHALL HAVE A FAN ENERGY INDEX (FEI) OF NOT LESS THAN 1.00 (CONSTANT VOLUME) AND 0.95 (VARIABLE VOLUME) AT THE DESIGN POINT OF OPERATION, AS DETERMINED IN ACCORDANCE WITH AMCA 208 BY AN APPROVED, INDEPENDENT TESTING LABORATORY AND LABELED BY THE MANUFACTURER. FEI FOR FAN ARRAYS SHALL BE CALCULATED IN ACCORDANCE WITH AMCA 208 ANNEX C.
2) PROVIDE [FANS WITH VFD AND MOTOR SHAFT GROUNDING SYSTEM] [ECM FANS] FOR VARIABLE FLOW CAPACITY CONTROL.
3) [PROVIDE GAS FURNACE WITH INTERMITTENT IGNITION OR INTERRUPTED DEVICE, POWER VENTING, AND JACKET LOSS NOT EXCEEDING 0.75% OF THE INPUT RATING.]
4) DAMPERS: AMCA CLASS 1A. [OUTSIDE AIR AND EXHAUST AIR ISOLATION DAMPERS]. [RECIRCULATION DAMPER]. [FACE AND BYPASS DAMPERS AT [HEAT EXCHANGER] [PRE-HEAT COIL]].
5) [PROVIDE WITH AIRSIDE ECONOMIZER.] [AIRSIDE ECONOMIZER NOT REQUIRED PER WSEC C403.5 EXCEPTION [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11].]
6) [PROVIDE WITH HOT GAS BYPASS. PROVIDE [STAGED COMPRESSOR CONTROL] [MODULATING COMPRESSOR CONTROL]. MAXIMUM HOT GAS BYPASS CAPACITY SHALL BE 50% FOR RATED CAPACITIES ≤ 240 MBH AND 25% FOR RATED CAPACITIES ≥ 240 MBH.]
7) [HEAT RECOVERY NOT REQUIRED. OCCUPANT LOAD IS GREATER THAN 25 PEOPLE PER 1000SF. PROVIDE WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION.]
8) [HEAT RECOVERY NOT REQUIRED. DOAS SYSTEMS SOLE PURPOSE IS TO PROVIDES MAKE UP AIR FOR SYSTEMS EXHAUSTING TOXIC, FLAMMABLE, PAINT, OR CORROSIVE FUMES OR DUST, DRYER EXHAUST, OR COMMERCIAL KITCHEN HOODS.]
9) [HEAT RECOVERY SHALL BE [FIXED PLATE ENTHALPIC] [ENTHALPY WHEEL] [DUAL CORE REVERSE FLOW]. HEAT RECOVERY IS RATED AT HEATING DESIGN OUTSIDE AIR TEMPERATURE AND A RETURN/EXHAUST TEMPERATURE OF 70°F DRY BULB AND 30 PERCENT RELATIVE HUMIDITY.]
10) [PROVIDE MOTORIZED DAMPERS ON THE CORES TO ALLOW FOR VARIABLE AIRFLOW OPERATION. QUANTITY OF DAMPERS SHALL PROVIDE EFFICIENCY BETWEEN 93% AND 76% AT ALL AIRFLOWS BETWEEN MAX AND MIN HEAT RECOVERY CFM.]
11) [PROVIDE REMOVABLE SIDE ACCESS PANEL FOR CORE REMOVAL. WHERE MOTORIZED DAMPERS AND DIVIDER PANELS ARE PROVIDED, DIVIDER PANELS SHALL BE REMOVABLE THROUGH SIDE ACCESS PANEL.]
12) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS. REFER TO ELECTRICAL FOR MINIMUM RATINGS.
13) SUPPLY FAN [ARRAY]: CLASS [I] [II] [III], [STEEL] [ALUMINUM], [DWDI BACKWARD-INCLINED CENTRIFUGAL] [DWDI FORWARD-CURVED CENTRIFUGAL] [DWDI AIRFOIL CENTRIFUGAL] [AIRFOIL CENTRIFUGAL PLENUM], DIRECT DRIVE. [PROVIDE SPRING ISOLATORS ON FAN.]
14) [RETURN] [EXHAUST] FAN: CLASS [I] [II] [III], [STEEL] [ALUMINUM], [DWDI BACKWARD-INCLINED CENTRIFUGAL] [DWDI FORWARD-CURVED CENTRIFUGAL] [DWDI AIRFOIL CENTRIFUGAL] [AIRFOIL CENTRIFUGAL PLENUM], DIRECT DRIVE. [PROVIDE SPRING ISOLATORS ON FAN.]
15) FILTERS: [2 INCH PRE-FILTER] [AND] [4] INCH FINAL FILTER [ON OUTSIDE AIR]. [2 INCH PRE-FILTER ON RETURN/EXHAUST.]
16) PROVIDE WITH (1) [480V/3] PHASE POWER CONNECTION FOR UNIT POWER [AND (1) 120V/1 CONNECTION FOR INTERIOR LIGHTING[AND RECEPTACLE]. LIGHTING SHALL BE LED.]
17) [PROVIDE 1 SPARE MOTOR FOR EACH EC MOTOR SIZE.]
18) [PROVIDE 1 HAND HELD EC PROGRAMMER FOR EACH MOTOR SIZE RANGE.]
19) [PROVIDE FLOW MONITORING STATION FOR ECM FAN/FAN ARRAY.]
20) [PROVIDE CONTROL WIRING FROM ECM FAN TO EXTERNAL J-BOX FOR ENABLE AND FAN SPEED CONTROL.]
21) [PROVIDE SPRING ISOLATION ON FANS] [PROVIDE NEOPRENE ISOLATORS ON FANS].
22) [PROVIDE COILS WITH VERTICAL SPLIT SECTIONS TO ENABLE FUTURE COIL REMOVAL AND REPLACEMENT.]

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MECHANICAL SCHEDULES

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FAN COIL UNIT SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER/MODEL	FAN					HEATING COIL								CHILLED WATER COIL									ELECTRICAL			FILTER	DIMENSIONS	WEIGHT	NOTES
				FLOW (CFM)	ESP (IN WC)	FAN SPEED (RPM)	MOTOR (W)	VOLTAGE/ PHASE V/Ø	TOTAL CAPACITY (MBH)	EAT (°F)	LAT (°F)	FLOW (GPM)	MAX WATER VEL/WPD (FPS/FT HD)	EWT/LWT (°F/°F)	HWS/R RUNOUT SIZE (IN)	CONTROL VALVE TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MAX AIR VEL/APD (FPM/IN)	EAT DB/WB (°F/°F)	LAT DB/WB (°F/°F)	FLOW (GPM)	MAX WATER VEL/WPD (FPS/FT HD)	EWT/LWT (°F/°F)	CHWS/R RUNOUT SIZE (IN)	CONTROL VALVE TYPE	POWER (W)	CURRENT (AMPS)	VOLTAGE/ PHASE V/Ø	(# - WxHxD)	(LxWxHT) (INxINxIN)	(LBS)	
FCU-01	INFANT	MECH ATTIC	IEC	1200																											
FCU-02	CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-03	PRESCHOOL	MECH ATTIC	IEC	1200																											
FCU-04	GED CR	MECH ATTIC	IEC	590																											
FCU-05	KITCHEN	MECH ATTIC	IEC	230																											
FCU-06	L2 INTERIOR OFFICES	MECH ATTIC	IEC	600																											
FCU-07	CONFERENCE	MECH ATTIC	IEC	180																											
FCU-08	CONFERENCE	MECH ATTIC	IEC	360																											
FCU-09	TODDLER	MECH ATTIC	IEC	1200																											
FCU-10	CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-11	TEST	MECH ATTIC	IEC	150																											
FCU-12	GED CR	MECH ATTIC	IEC	560																											
FCU-13	STAFF LOUNGE	MECH ATTIC	IEC	890																											
NOT USED	-	-	-	-																											
FCU-15	HEALTH	MECH ATTIC	IEC	370																											
FCU-16	L1 EXTERIOR OFFICES	MECH ATTIC	IEC	540																											
FCU-17	L1 INTERIOR OFFICES	MECH ATTIC	IEC	1700																											
FCU-18	LIFE LAB	MECH ATTIC	IEC	1200																											
FCU-19	STUDENT STORE	MECH ATTIC	IEC	320																											
FCU-20	CTE BUSINESS MARKETING	MECH ATTIC	IEC	1200																											
FCU-21	PE OFFICE	MECH ATTIC	IEC	160																											
FCU-22	GRAYS HARBOR ACADEMY	MECH ATTIC	IEC	850																											
FCU-23	GRAYS HARBOR CONF	MECH ATTIC	IEC	280																											
FCU-24	PHLEBOTOMY LAB	MECH ATTIC	IEC	1200																											
FCU-25	MAKER SPACE	MECH ATTIC	IEC	1200																											
NOT USED	-	-	-	-																											
FCU-27	CTE SHARED CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-28	SCIENCE CR	MECH ATTIC	IEC	1200																											
FCU-29	CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-30	CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-31	CNA LAB	MECH ATTIC	IEC	1200																											
FCU-32	CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-33	LIBRARY	MECH ATTIC	IEC	1200																											
FCU-34	LIBRARY WORKROOM	MECH ATTIC	IEC	360																											
FCU-35	FLEX CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-36	CLASSROOM	MECH ATTIC	IEC	1200																											
FCU-37	KITCHEN	MECH ATTIC	IEC	940																											
FCU-38	SAT WORK	MECH ATTIC	IEC	180																											
FCU-39	FOOD BANK	MECH ATTIC	IEC	120																											

NOTES:
1)
2)

SUMP PUMP SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER / MODEL	TOTAL FLOW (GPM)	HEAD (FT)	FLUID	DISCHARGE SIZE (IN)	MOTOR			NOTES
								HP (HP)	SPEED (RPM)	VOLTAGE/PHASE V/Ø	
SP-01	SANITARY	ELEVATOR	WEIL 1411	50	21	WATER	2	1/2	1750	115/1	1, 2

NOTES:
1) PROVIDE WITH WEIL TETHERED LEVEL CONTROL MODEL 8245. PROVIDE WITH PIGGYBACK PLUG FOR SINGLE POINT ELECTRICAL CONNECTION. DO NOT PROVIDE PUMP CONTROL PANEL.
2) SEE M9 SERIES FOR DETAIL. PROVIDE ISOLATION VALVE AND CHECK VALVE ON PUMP DISCHARGE.

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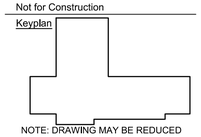
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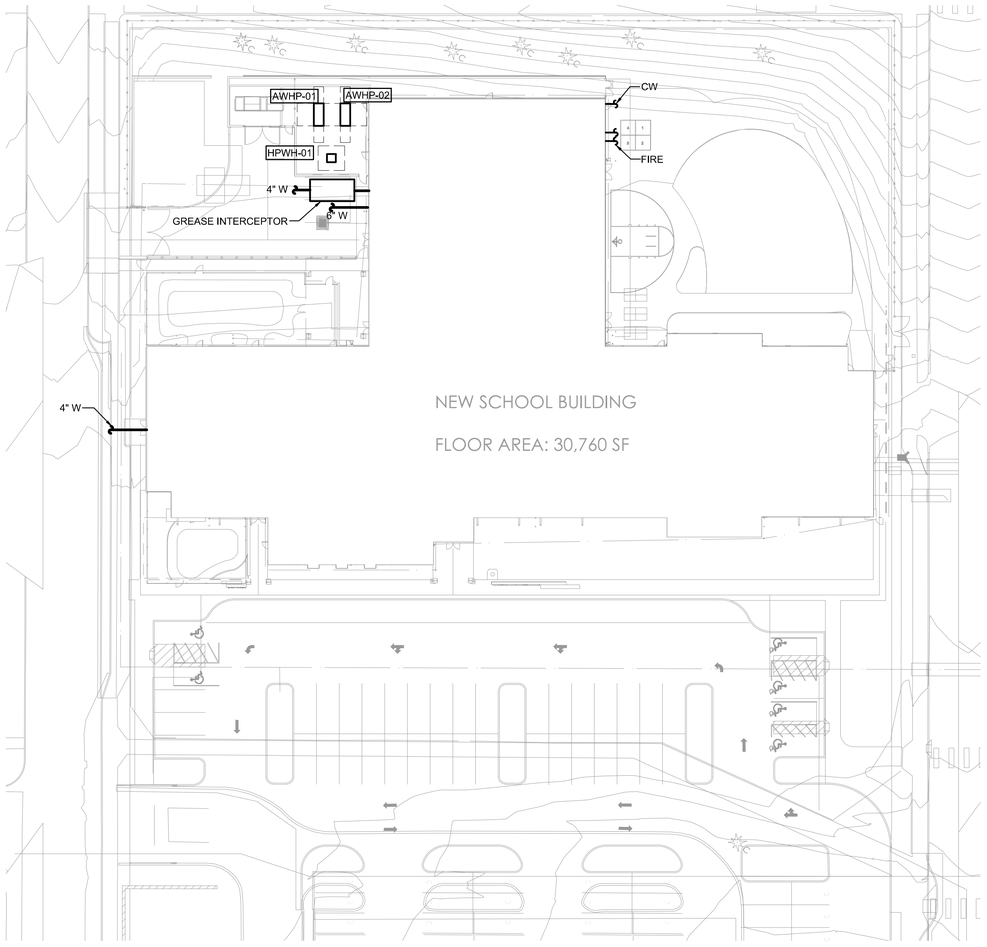
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MECHANICAL SCHEDULES

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1 MECHANICAL SITE PLAN
1" = 20'-0"

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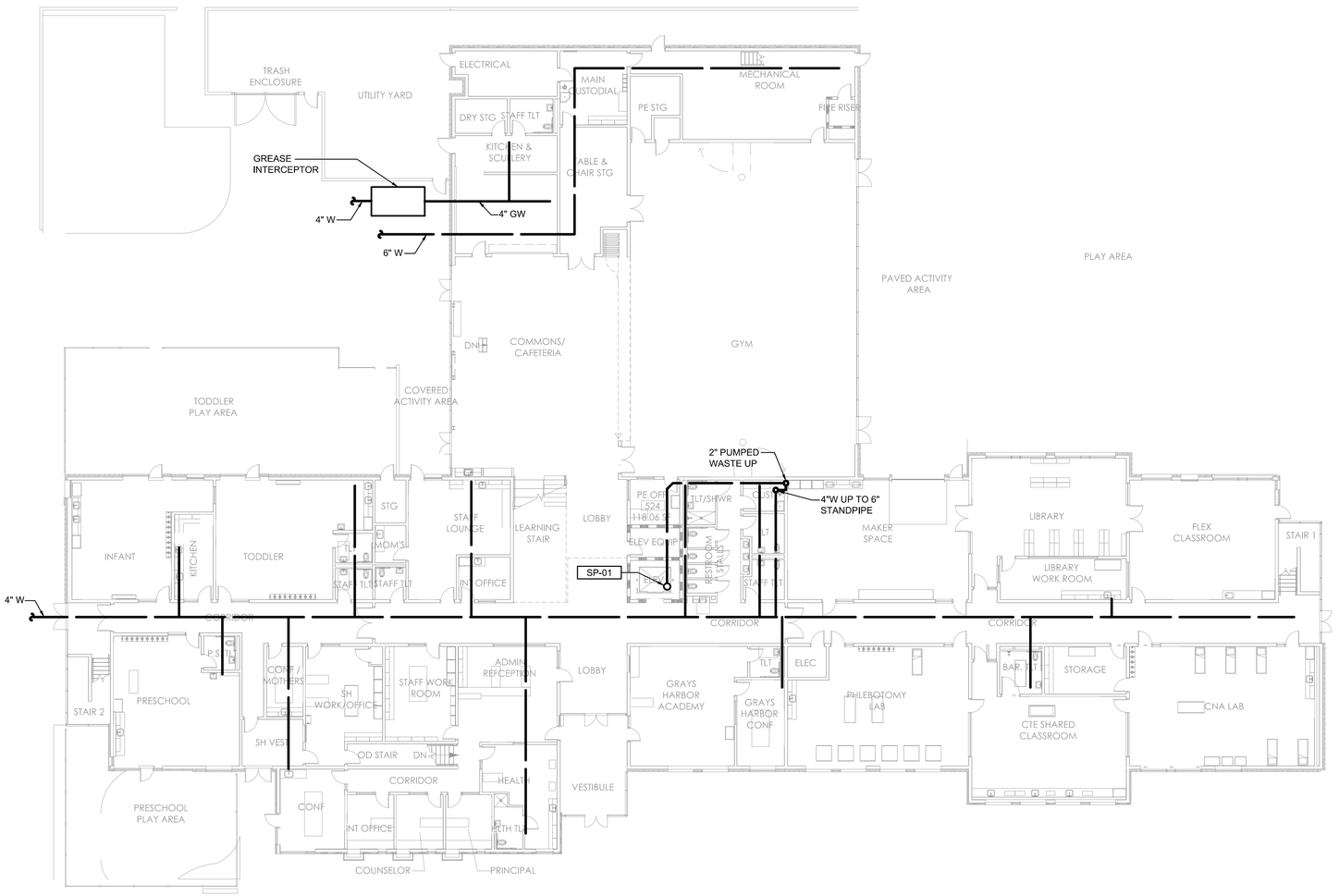
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MECHANICAL SITE PLAN

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1 UNDERGROUND PLUMBING PLAN
1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. PROVIDE CLEANOUTS AT EVERY URINAL, SINK, AND LAVATORY. WHERE THE UPPER TERMINUS OF BRANCH LINES EXCEEDING 5 FEET IN LENGTH DO NOT END WITH A SINK OR LAVATORY, PROVIDE A WALL OR FLOOR CLEANOUT PER UPC 707.4.
2. COORDINATE WASTE PIPE ROUTING WITH STRUCTURAL FOUNDATION PLANS. SLEEVE PIPING WHERE REQUIRED THROUGH STEM WALLS & FOUNDATION. WHERE NOTCHING OF FOUNDATION IS REQUIRED, OBTAIN APPROVAL OF LOCATION AND APPROACH FROM STRUCTURAL ENGINEER PRIOR TO INSTALL. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
3. SLOPE WASTE/VENT PIPING AT MIN 1/4" PER FOOT.
4. PROVIDE TRAP PRIMER CONNECTION FROM NEAREST TRAP PRIMER TO ALL FLOOR DRAINS, FLOOR SINKS AIR GAP FITTINGS AND OTHER TRAPS REQUIRING PROTECTION.
5. REFER TO PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPING SIZES NOT DIMENSIONED ON PLANS.
6. REFER TO ARCHITECTURAL FLOOR PLANS AND DETAILS FOR FLOOR SLOPE TO FLOOR DRAINS. INSTALL FLOOR DRAIN AT ELEVATION REQUIRED FOR FLOOR DRAIN TO BE FLUSH WITH FINISHED FLOOR ELEVATION.
7. DO NOT PROVIDE DOUBLE WYE FITTINGS IN HORIZONTAL SANITARY SEWER SYSTEM.
8. SEE X/M9.0X FOR FLOOR CLEANOUT DETAIL.

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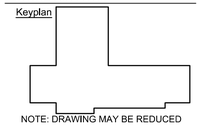
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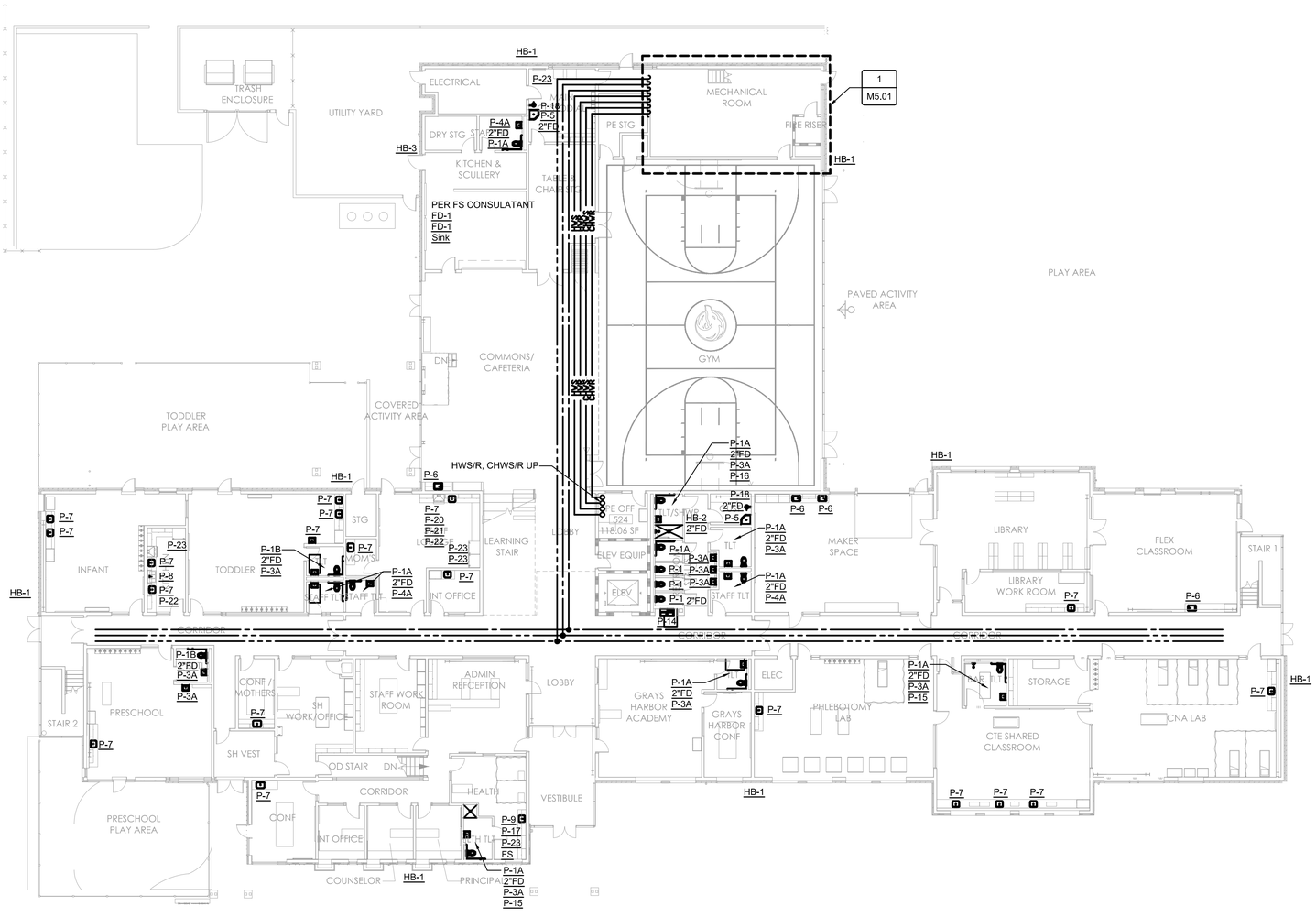
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UNDERGROUND PLUMBING PLAN

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1 FIRST FLOOR PLUMBING PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. PROVIDE CLEANOUTS AT EVERY URINAL, SINK, AND LAVATORY. WHERE THE UPPER TERMINUS OF BRANCH LINES EXCEED 5 FEET IN LENGTH DO NOT END WITH A SINK OR LAVATORY, PROVIDE A WALL OR FLOOR CLEANOUT PER UPC 707.4.
2. PROVIDE OFFSETS IN PIPING WHERE PLUMBING PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING IN CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS.
3. REFER TO ARCHITECTURAL FLOOR PLANS AND DETAILS FOR FLOOR SLOPE TO FLOOR DRAINS. INSTALL FLOOR DRAIN AT ELEVATION REQUIRED FOR FLOOR DRAIN TO BE FLUSH WITH FINISHED FLOOR ELEVATION.
4. LOOP HW PIPING ON PLANS AS SHOWN NEAR LAVATORY FIXTURES, IN LIEU OF RECIRCULATION LOOP, TO PROVIDE NEGLIGIBLE WAIT TIME FOR HOT WATER.
5. COORDINATE PLUMBING TO PROVIDE UNOBSTRUCTED ACCESS TO ABOVE CEILING MECHANICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO DAMPERS, VALVES, AND AIR TERMINAL UNITS.
6. PROVIDE TRAP PRIMER CONNECTION FROM NEAREST TRAP PRIMER TO ALL FLOOR DRAINS, FLOOR SINKS AIR GAP FITTINGS AND OTHER TRAPS REQUIRING PROTECTION.
7. DO NOT PROVIDE DOUBLE WYE FITTINGS IN HORIZONTAL SANITARY SEWER SYSTEM.
8. PROVIDE UNISTRUT MODEL CUSH-A-CLAMP AT ALL UNISTRUT PIPE SUPPORTS.
9. PROVIDE STRAINER AND ISOLATION VALVE ON COLD WATER BRANCH PIPING UPSTREAM OF TRAP PRIMERS.
10. COORDINATE SHEAR WALL AND MASS WALL OPENINGS WITH STRUCTURAL.
11. PROVIDE ACCESS PANEL IN WALL FOR WATER HAMMER ARRESTORS. SEE X/M9.0X FOR WATER HAMMER ARRESTOR DETAIL.
12. SEE X/M9.0X FOR FLOOR CLEANOUT DETAIL.
13. SEE X/M8.0X FOR NATURAL GAS PIPE SIZES.

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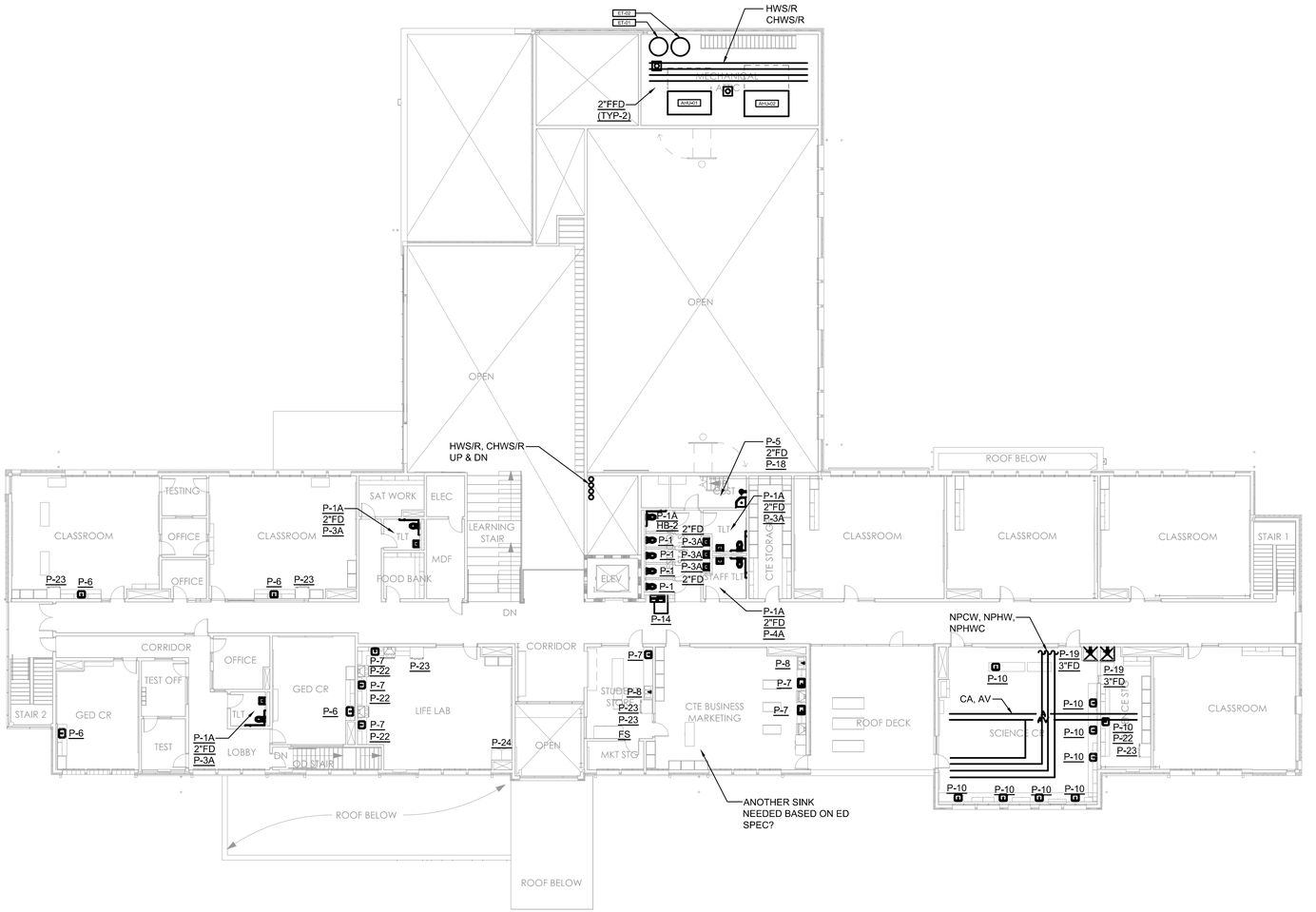
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FIRST FLOOR PLUMBING PLAN

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1 SECOND FLOOR PLUMBING PLAN

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2. PROVIDE OFFSETS IN PIPING WHERE PLUMBING PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING IN CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS.
3. REFER TO ARCHITECTURAL FLOOR PLANS AND DETAILS FOR FLOOR SLOPE TO FLOOR DRAINS. INSTALL FLOOR DRAIN AT ELEVATION REQUIRED FOR FLOOR DRAIN TO BE FLUSH WITH FINISHED FLOOR ELEVATION.
4. LOOP HW PIPING ON PLANS AS SHOWN NEAR LAVATORY FIXTURES, IN LIEU OF RECIRCULATION LOOP, TO PROVIDE NEGLIGIBLE WAIT TIME FOR HOT WATER.
5. COORDINATE PLUMBING TO PROVIDE UNOBSTRUCTED ACCESS TO ABOVE CEILING MECHANICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO DAMPERS, VALVES, AND AIR TERMINAL UNITS.
6. PROVIDE TRAP PRIMER CONNECTION FROM NEAREST TRAP PRIMER TO ALL FLOOR DRAINS, FLOOR SINKS AIR GAP FITTINGS AND OTHER TRAPS REQUIRING PROTECTION.
7. DO NOT PROVIDE DOUBLE WYE FITTINGS IN HORIZONTAL SANITARY SEWER SYSTEM.
8. PROVIDE UNISTRUT MODEL CUSH-A-CLAMP AT ALL UNISTRUT PIPE SUPPORTS.
9. PROVIDE STRAINER AND ISOLATION VALVE ON COLD WATER BRANCH PIPING UPSTREAM OF TRAP PRIMERS.
10. COORDINATE SHEAR WALL AND MASS WALL OPENINGS WITH STRUCTURAL.
11. PROVIDE ACCESS PANEL IN WALL FOR WATER HAMMER ARRESTORS. SEE X/M9.0X FOR WATER HAMMER ARRESTOR DETAIL.
12. SEE X/M9.0X FOR FLOOR CLEANOUT DETAIL.
13. SEE X/M8.0X FOR NATURAL GAS PIPE SIZES.

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SECOND FLOOR PLUMBING PLAN

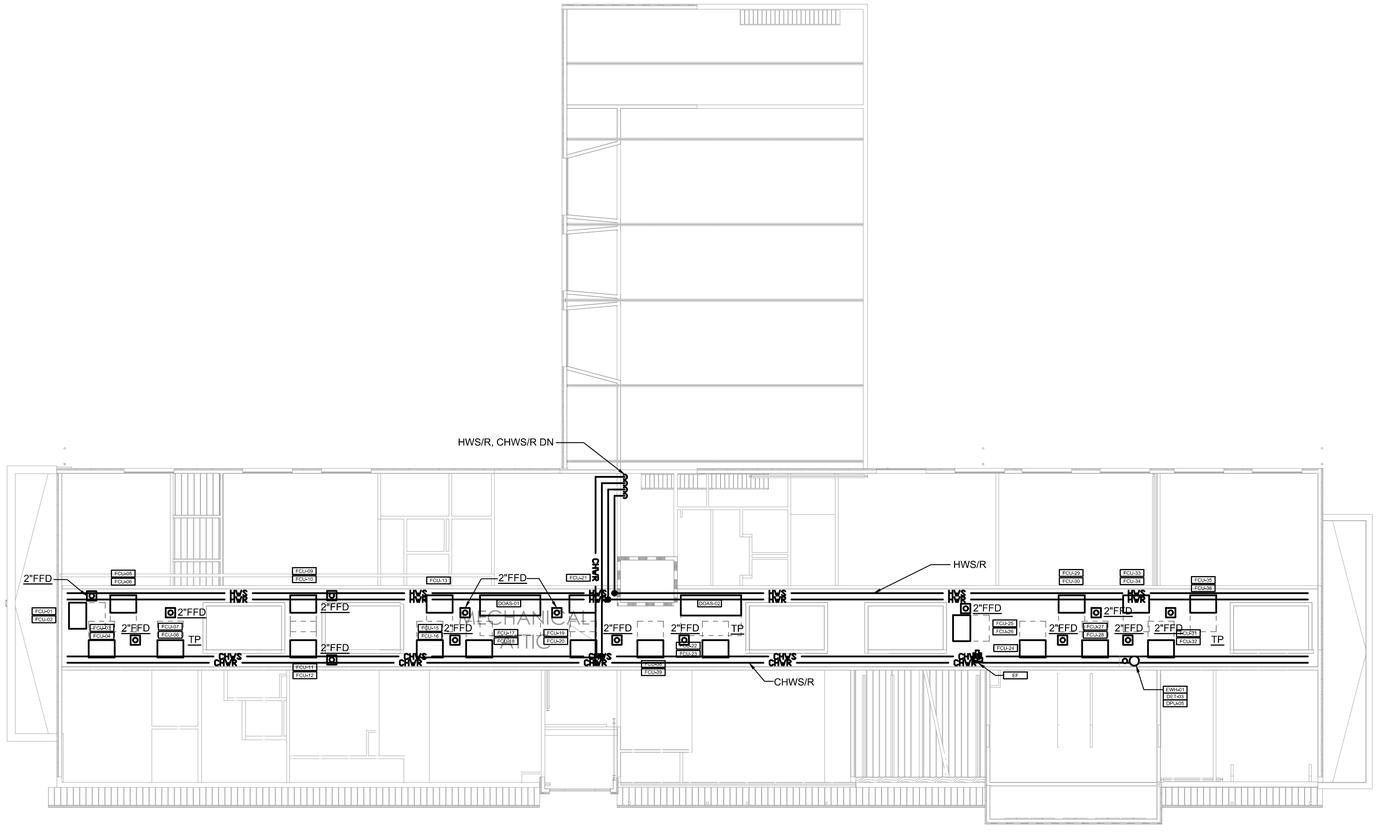
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4. LOOP HW PIPING ON PLANS AS SHOWN NEAR LAVATORY FIXTURES, IN LIEU OF RECIRCULATION LOOP, TO PROVIDE NEGLIGIBLE WAIT TIME FOR HOT WATER.
5. COORDINATE PLUMBING TO PROVIDE UNOBSTRUCTED ACCESS TO ABOVE CEILING MECHANICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO DAMPERS, VALVES, AND AIR TERMINAL UNITS.
6. PROVIDE TRAP PRIMER CONNECTION FROM NEAREST TRAP PRIMER TO ALL FLOOR DRAINS, FLOOR SINKS AIR GAP FITTINGS AND OTHER TRAPS REQUIRING PROTECTION.
7. DO NOT PROVIDE DOUBLE WYE FITTINGS IN HORIZONTAL SANITARY SEWER SYSTEM.
8. PROVIDE UNISTRUT MODEL CUSH-A-CLAMP AT ALL UNISTRUT PIPE SUPPORTS.
9. PROVIDE STRAINER AND ISOLATION VALVE ON COLD WATER BRANCH PIPING UPSTREAM OF TRAP PRIMERS.
10. COORDINATE SHEAR WALL AND MASS WALL OPENINGS WITH STRUCTURAL.
11. PROVIDE ACCESS PANEL IN WALL FOR WATER HAMMER ARRESTORS. SEE X/M9.0X FOR WATER HAMMER ARRESTOR DETAIL.
12. SEE X/M9.0X FOR FLOOR CLEANOUT DETAIL.
13. SEE X/M8.0X FOR NATURAL GAS PIPE SIZES.



1 MECH ATTIC PLUMBING PLAN
1/16" = 1'-0"

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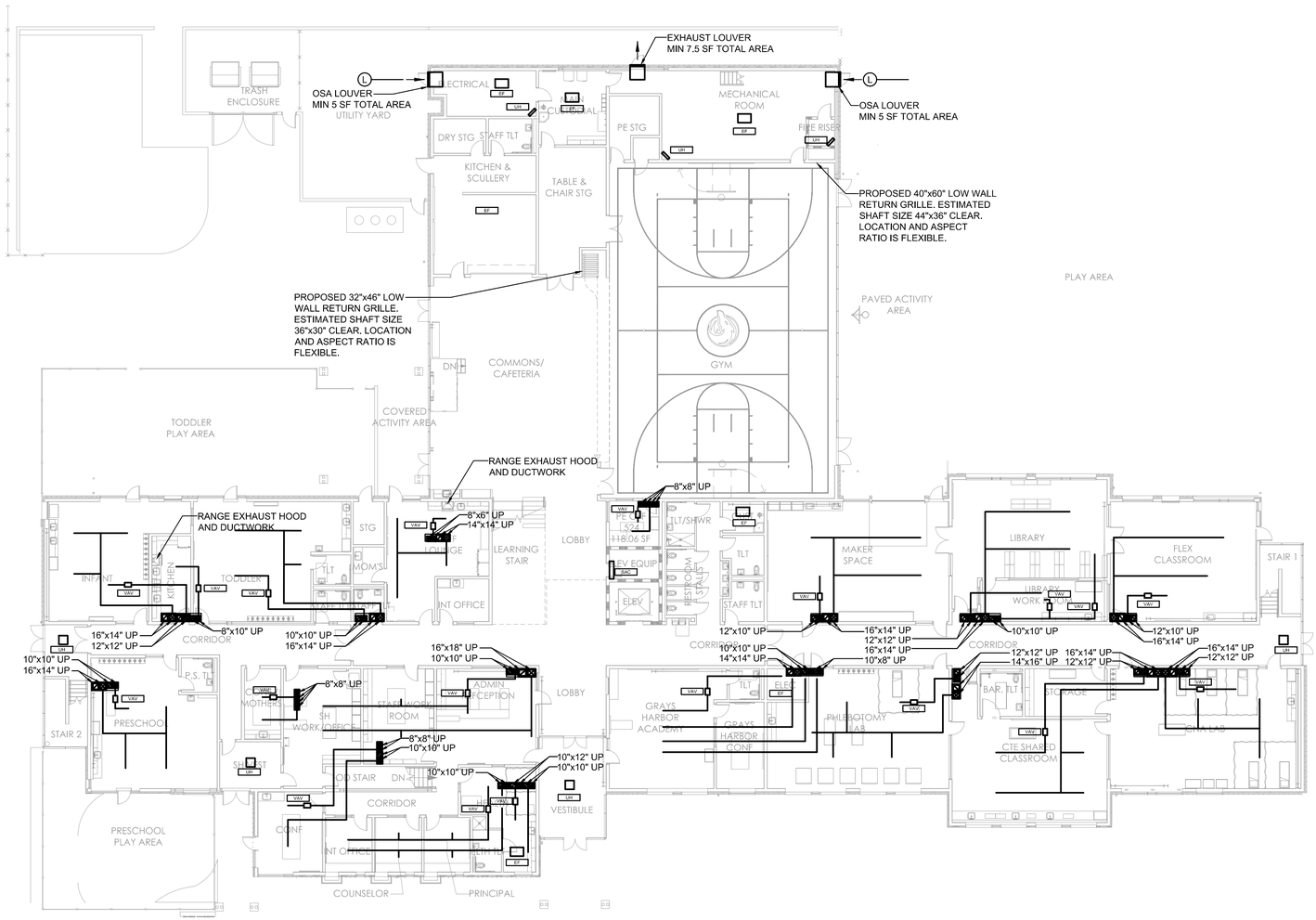
Sheet Title

MECH ATTIC PLUMBING PLAN

M2.03

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1 FIRST FLOOR HVAC PLAN

1/16" = 1'-0"

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ABERDEEN SD #5

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HARBOR LEARNING CENTER

510 N I ST, Aberdeen

Issue & Revision Dates

12 AUGUST 2025	95% SD
24 SEPTEMBER 2025	100% SD

100% Schematic Design

Not for Construction

Keyplan

NOTE: DRAWING MAY BE REDUCED

0 4' 8' 16'

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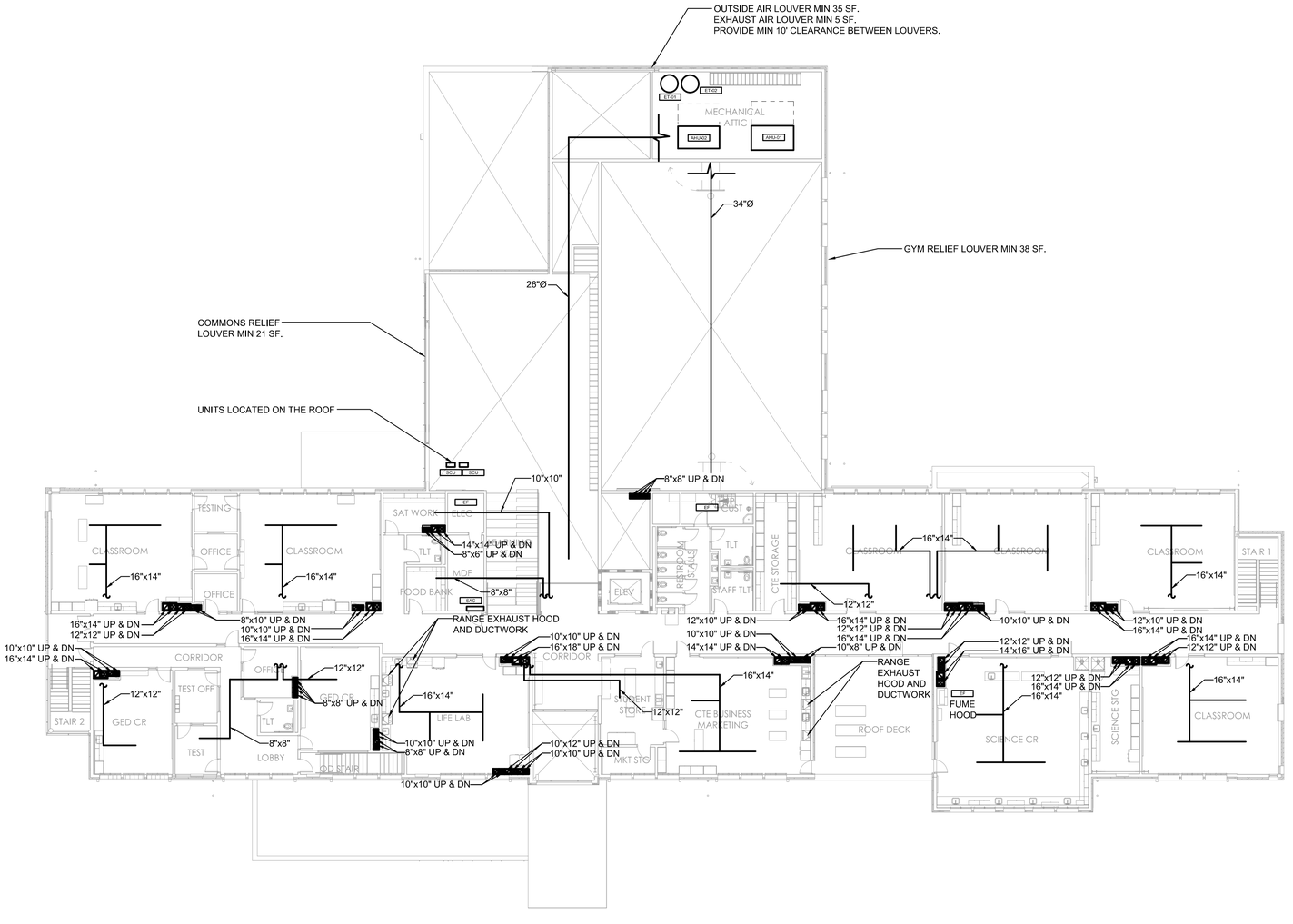
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FIRST FLOOR HVAC PLAN

M3.01

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SECOND FLOOR HVAC PLAN

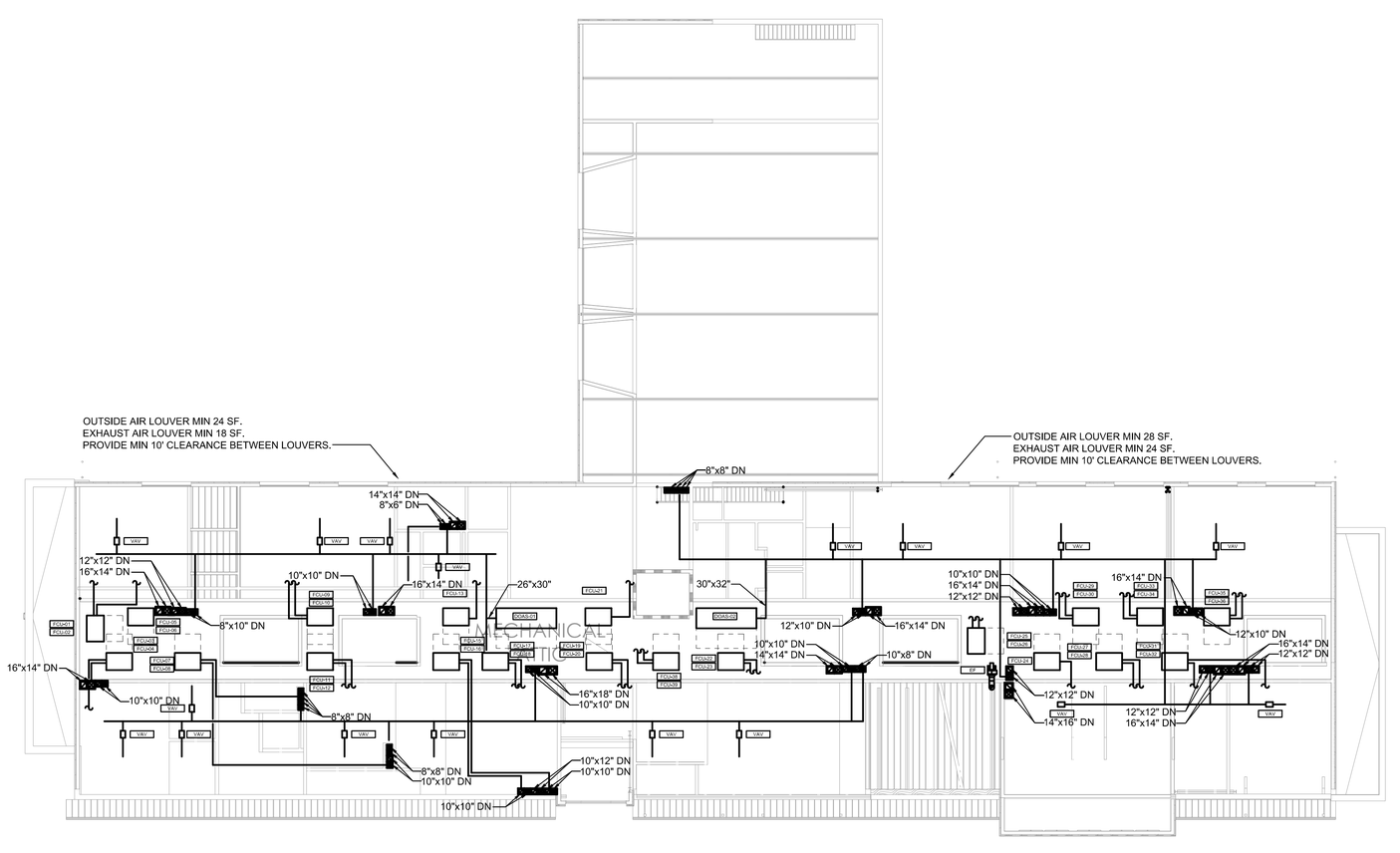
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1 MECH ATTIC HVAC PLAN
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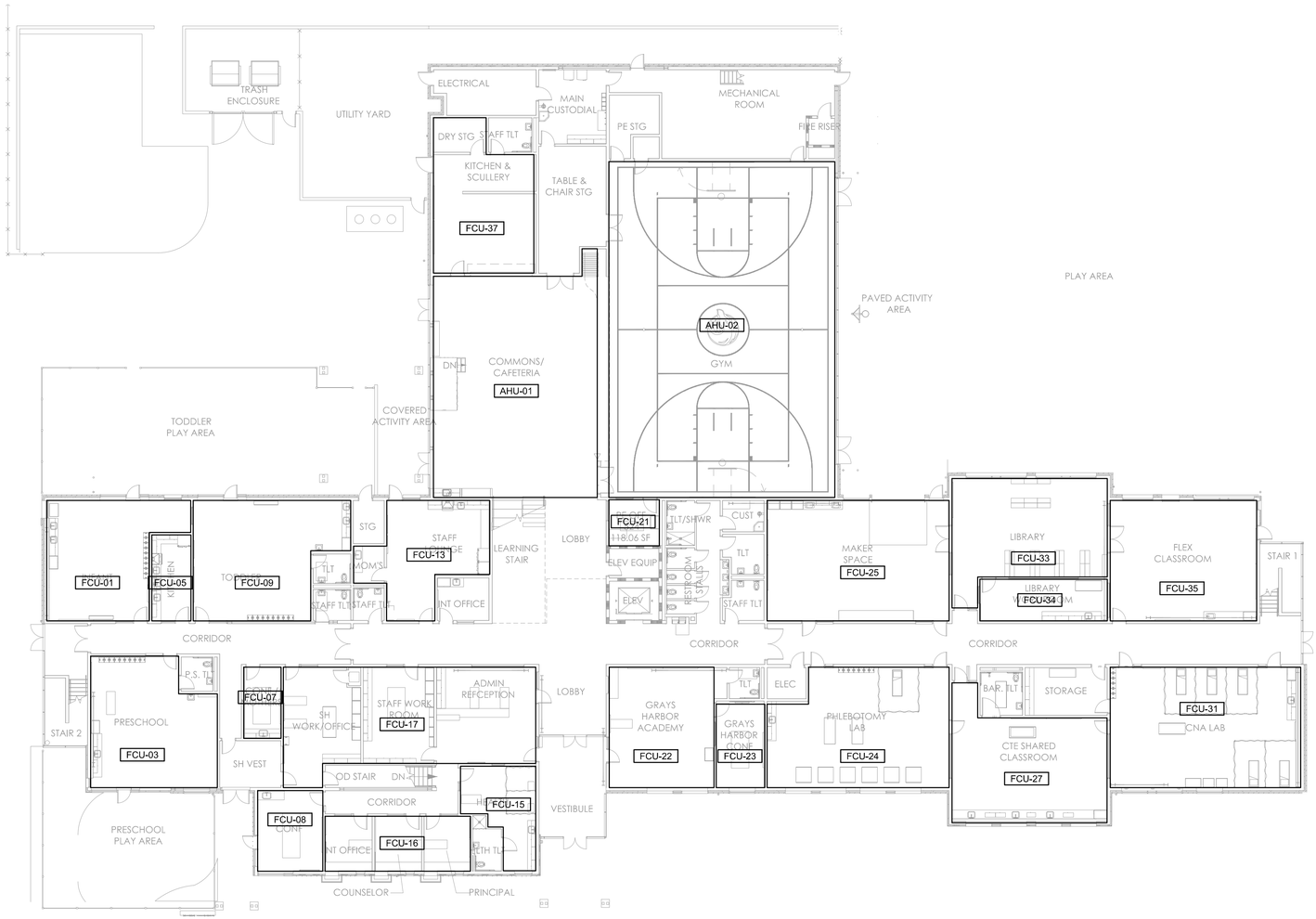
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MECH ATTIC HVAC PLAN

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1 FIRST FLOOR ZONING PLAN

1/16" = 1'-0"

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FIRST FLOOR ZONING PLAN

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SECOND FLOOR ZONING PLAN

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1 ENLARGED MECHANICAL ROOM PLAN
1/4" = 1'-0"

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ENLARGED MECHANICAL ROOM PLAN

M5.01

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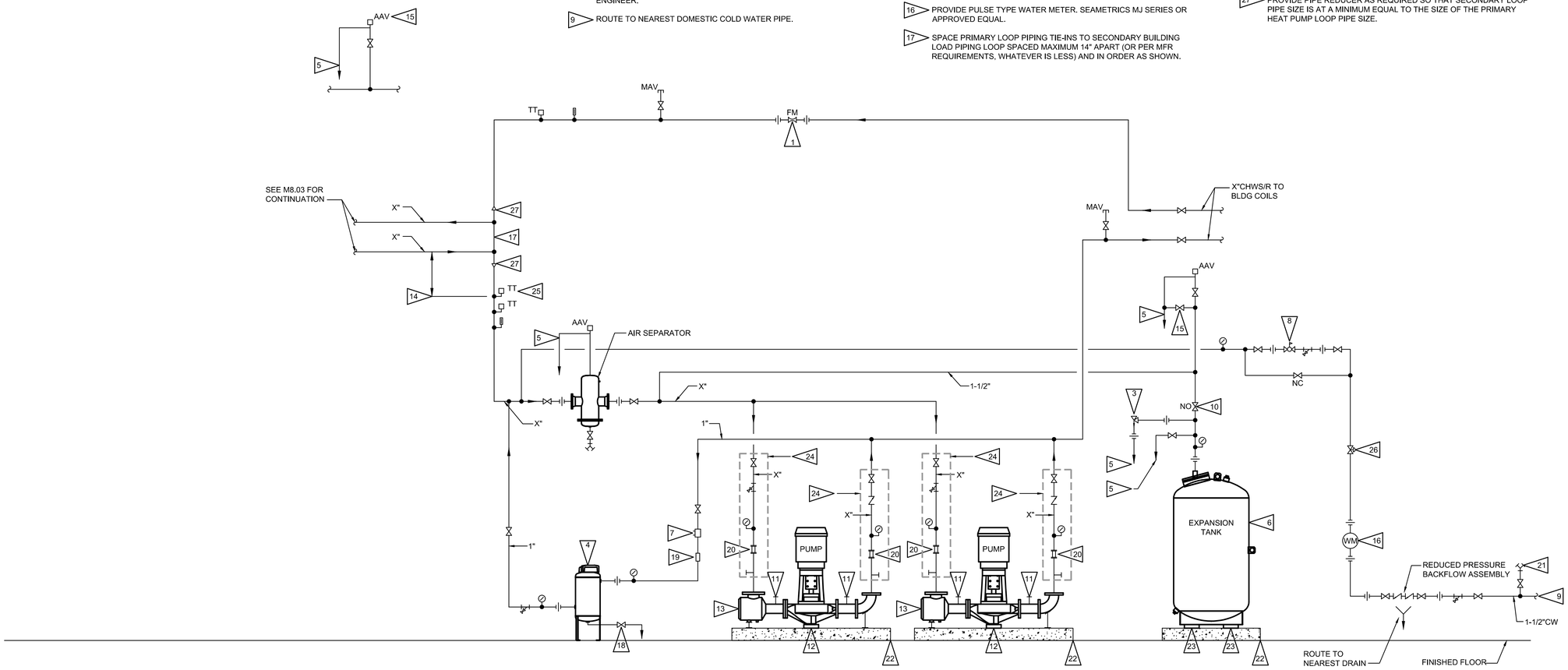
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FLAG NOTES

1. PROVIDE MANUFACTURER REQUIRED STRAIGHT PIPE LENGTH UPSTREAM AND DOWNSTREAM OF FLOW METER.
2. NOT USED.
3. PROVIDE RELIEF VALVE AT 75 PSIG.
4. PROVIDE BYPASS CHEMICAL FILTER FEEDER.
5. ROUTE FULL SIZE TO DRAIN. (TYPICAL)
6. CHARGE EXPANSION TANK TO MAINTAIN A MINIMUM OF 4 PSI AT HIGH POINT OF SYSTEM DURING COLD FILL. APPROXIMATELY 17 PSI.
7. PROVIDE AUTOMATIC FLOW CONTROL VALVE SIZED AT 5 GPM AND 4-57 PSI DIFFERENTIAL PRESSURE.
8. PROVIDE PRESSURE REDUCING VALVE. SET PRESSURE REDUCING VALVE TO MATCH EXPANSION TANK CHARGE. COORDINATE WITH ENGINEER.
9. ROUTE TO NEAREST DOMESTIC COLD WATER PIPE.
10. SET SHUT-OFF VALVE TO OPEN POSITION AND REMOVE HANDLE PRIOR TO STARTING HOT WATER SYSTEM.
11. PROVIDE PIPE AT DISCHARGE AND SUCTION OF PUMPS TO ACCOMMODATE T/P TEST PORTS AND MANUFACTURER RECOMMENDED STRAIGHT LENGTH.
12. ANCHOR TO HOUSEKEEPING PAD. PROVIDE VIBRATION ISOLATORS AND VIBRATION ISOLATION EQUIPMENT BASE PER SPECIFICATIONS.
13. PROVIDE SUCTION DIFFUSER ON INLET TO PUMP. REMOVE START UP SCREEN AFTER SYSTEM FLUSH. ATTACH SCREEN TO SUCTION DIFFUSER FOR VISUAL REMOVAL VERIFICATION.
14. DISTANCE FROM TEE SHALL BE MIN 5 TIMES PIPE DIAMETER (OR PER MFR REQUIREMENTS, WHATEVER IS GREATER).
15. PROVIDE AUTOMATIC AIR VENTS AT PIPING MAINS THAT ARE INSTALLED HIGHER THAN AIR SEPERATOR. (TYPICAL)
16. PROVIDE PULSE TYPE WATER METER. SEAMETRICS MJ SERIES OR APPROVED EQUAL.
17. SPACE PRIMARY LOOP PIPING TIE-INS TO SECONDARY BUILDING LOAD PIPING LOOP SPACED MAXIMUM 14" APART (OR PER MFR REQUIREMENTS, WHATEVER IS LESS) AND IN ORDER AS SHOWN.
18. PROVIDE DRAIN VALVE. ROUTE FULL SIZE TO NEAREST DRAIN.
19. PROVIDE SITE FLOW INDICATOR.
20. PROVIDE FLEX CONNECTION.
21. PROVIDE HOSE CONNECTION VACUUM BREAKER WITH SHUT-OFF VALVE.
22. PROVIDE HOUSEKEEPING PAD. MINIMUM 4" HIGH.
23. ANCHOR TO HOUSEKEEPING PAD.
24. OPTIONAL GROOVED PUMP DROP ASSEMBLY.
25. HEAT PUMP MANAGEMENT SYSTEM TEMPERATURE TRANSMITTER.
26. SPRING RETURN, FAIL OPEN CONTROL VALVE.
27. PROVIDE PIPE REDUCER AS REQUIRED SO THAT SECONDARY LOOP PIPE SIZE IS AT A MINIMUM EQUAL TO THE SIZE OF THE PRIMARY HEAT PUMP LOOP PIPE SIZE.



1 AIR-TO-WATER HEAT PUMP CHILLED WATER PIPING DIAGRAM
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Keyplan

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M8.01

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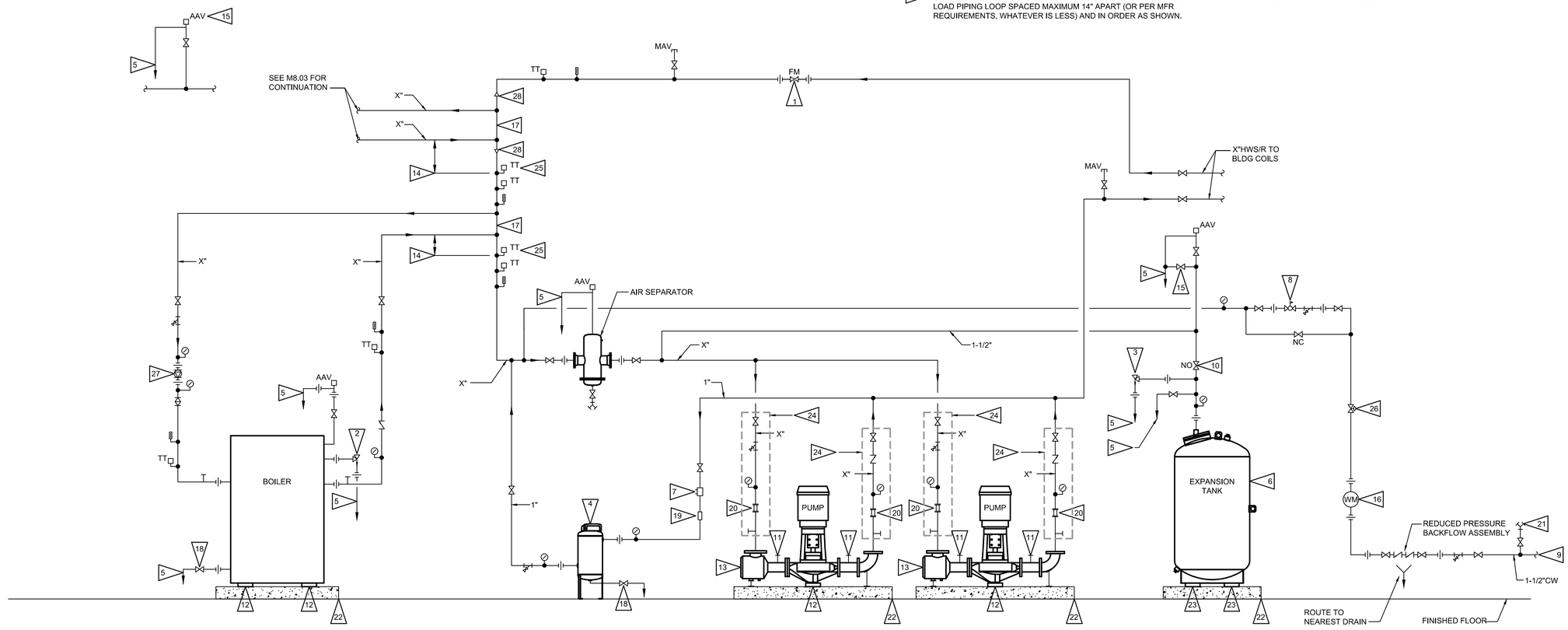
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FLAG NOTES

1. PROVIDE MANUFACTURER REQUIRED STRAIGHT PIPE LENGTH UPSTREAM AND DOWNSTREAM OF FLOW METER.
2. PROVIDE RELIEF VALVE AT 75 PSIG PER MFR'S REQUIREMENTS.
3. PROVIDE RELIEF VALVE AT 75 PSIG.
4. PROVIDE BYPASS CHEMICAL FILTER FEEDER.
5. ROUTE FULL SIZE TO DRAIN. (TYPICAL)
6. CHARGE EXPANSION TANK TO MAINTAIN A MINIMUM OF 4 PSI AT HIGH POINT OF SYSTEM DURING COLD FILL. APPROXIMATELY 17 PSI.
7. PROVIDE AUTOMATIC FLOW CONTROL VALVE SIZED AT 5 GPM AND 4-57 PSI DIFFERENTIAL PRESSURE.
8. PROVIDE PRESSURE REDUCING VALVE. SET PRESSURE REDUCING VALVE TO MATCH EXPANSION TANK CHARGE. COORDINATE WITH ENGINEER.
9. ROUTE TO NEAREST DOMESTIC COLD WATER PIPE.
10. SET SHUT-OFF VALVE TO OPEN POSITION AND REMOVE HANDLE PRIOR TO STARTING HOT WATER SYSTEM.
11. PROVIDE PIPE AT DISCHARGE AND SUCTION OF PUMPS TO ACCOMMODATE T/P TEST PORTS AND MANUFACTURER RECOMMENDED STRAIGHT LENGTH.
12. ANCHOR TO HOUSEKEEPING PAD. PROVIDE VIBRATION ISOLATORS AND VIBRATION ISOLATION EQUIPMENT BASE PER SPECIFICATIONS.
13. PROVIDE SUCTION DIFFUSER ON INLET TO PUMP. REMOVE START UP SCREEN AFTER SYSTEM FLUSH. ATTACH SCREEN TO SUCTION DIFFUSER FOR VISUAL REMOVAL VERIFICATION.
14. TRANSMITTER DISTANCE FROM TEE SHALL BE MIN 3 TO 5 TIMES PIPE DIAMETER (OR PER MFR REQUIREMENTS, WHATEVER IS GREATER).
15. PROVIDE AUTOMATIC AIR VENTS AT PIPING MAINS THAT ARE INSTALLED HIGHER THAN AIR SEPERATOR. (TYPICAL)
16. PROVIDE PULSE TYPE WATER METER. SEAMETRICS MJ SERIES OR APPROVED EQUAL.
17. SPACE PRIMARY LOOP PIPING TIE-INS TO SECONDARY BUILDING LOAD PIPING LOOP SPACED MAXIMUM 14" APART (OR PER MFR REQUIREMENTS, WHATEVER IS LESS) AND IN ORDER AS SHOWN.
18. PROVIDE DRAIN VALVE. ROUTE FULL SIZE TO NEAREST DRAIN.
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20. PROVIDE FLEX CONNECTION.
21. PROVIDE HOSE CONNECTION VACUUM BREAKER WITH SHUT-OFF VALVE.
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23. ANCHOR TO HOUSEKEEPING PAD.
24. OPTIONAL GROOVED PUMP DROP ASSEMBLY.
25. HEAT PUMP MANAGEMENT SYSTEM TEMPERATURE TRANSMITTER.
26. SPRING RETURN, FAIL OPEN CONTROL VALVE.
27. PROVIDE CIRCULATION PUMP. INSTALL LESS THAN 6'-0" AFF.
28. PROVIDE PIPE REDUCER AS REQUIRED SO THAT SECONDARY LOOP PIPE SIZE IS AT A MINIMUM EQUAL TO THE SIZE OF THE PRIMARY HEAT PUMP LOOP PIPE SIZE.



1 AIR-TO-WATER HEAT PUMP HEATING WATER PIPING DIAGRAM
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Keyplan

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AIR-TO-WATER HEAT PUMP HEATING WATER PIPING DIAGRAM

M8.02

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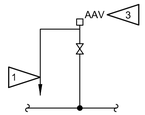
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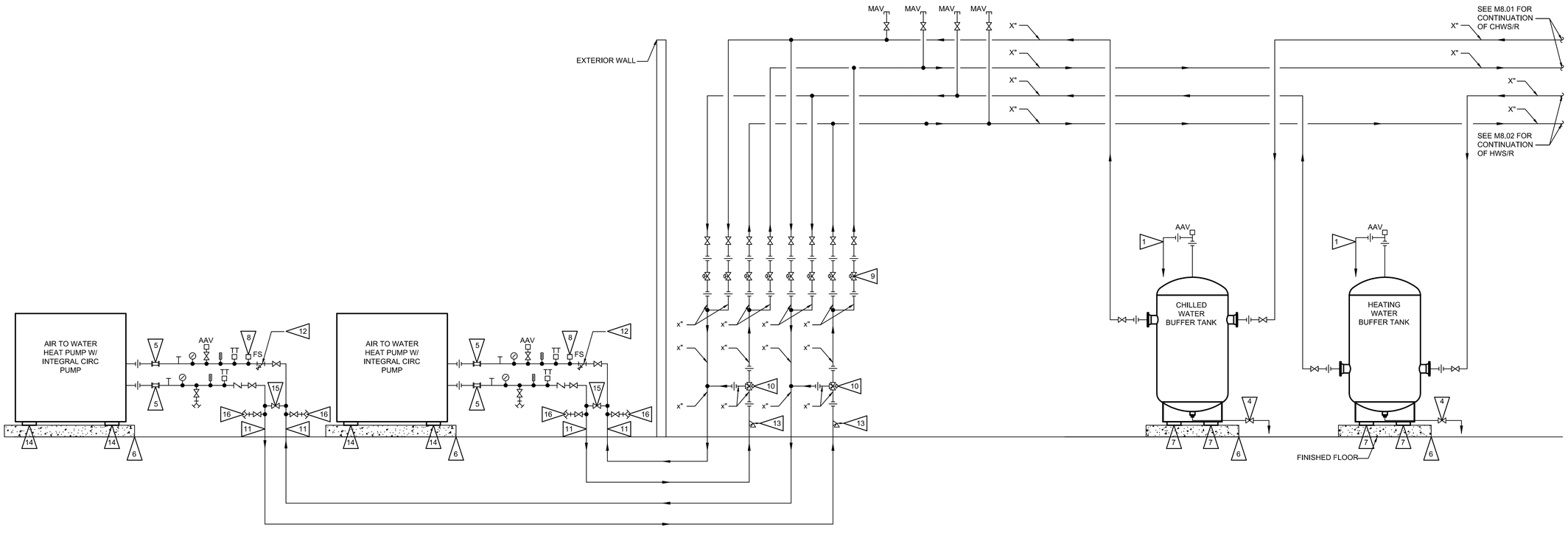
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FLAG NOTES

1. ROUTE FULL SIZE TO DRAIN. (TYPICAL)
2. NOT USED.
3. PROVIDE AUTOMATIC AIR VENTS AT PIPING MAINS THAT ARE INSTALLED HIGHER THAN AIR SEPERATOR. (TYPICAL)
4. PROVIDE DRAIN VALVE. ROUTE FULL SIZE TO NEAREST DRAIN.
5. PROVIDE FLEX CONNECTION.
6. PROVIDE HOUSEKEEPING PAD. MINIMUM 4" HIGH.
7. ANCHOR TO HOUSEKEEPING PAD.
8. PROVIDE HEAT PUMP THERMAL DISPERSION TYPE FLOW SWITCH.
9. SPRING RETURN, FAIL CLOSED 2-WAY CONTROL VALVE. PROVIDE VALVE WITH CONTROL FEEDBACK FOR VALVE STATUS. INSTALL LESS THAN 6'-0" AFF. PROVIDE FLOOR MOUNTED UNISTRUT SUPPORT RACK AS REQUIRED. (TYP 8)
10. SPRING RETURN, FAIL OPEN (FAIL POSITION SO FLOW GOES TO SECONDARY LOOP, NOT BACK TO HEAT PUMP) 3-WAY CONTROL VALVE. PROVIDE VALVE WITH CONTROL FEEDBACK FOR VALVE STATUS. INSTALL LESS THAN 6'-0" AFF. PROVIDE FLOOR MOUNTED UNISTRUT SUPPORT RACK AS REQUIRED.
11. PROVIDE HEAT TRACE ON EXTERIOR PIPING.
12. PROVIDE 60-MESH STRAINER (OR AS REQUIRED BY HEAT PUMP MFR) WITH BLOW DOWN VALVE.
13. PROVIDE RELIEF VALVE AT 75 PSIG PER MFR'S REQUIREMENTS.
14. ANCHOR TO HOUSEKEEPING PAD. PROVIDE VIBRATION ISOLATORS AND VIBRATION ISOLATION EQUIPMENT BASE PER SPECIFICATIONS.
15. NORMALLY CLOSED BYPASS VALVE. DO NOT FLUSH HYDRONIC SYSTEM THROUGH HEAT PUMP.
16. PROVIDE ISOLATION VALVE AND HOSE CONNECTION FOR HEAT PUMP PIPING LOOP FLUSH. MINIMUM 2 INCH.





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REFERENCE SYMBOLS

- NEW ELECTRICAL WORK
- EXISTING ELECTRICAL WORK
- ENLARGED PLAN BORDER
- MATCHLINE
- ITEM TO BE REMOVED
- AREA NOT IN CONTRACT
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW
- MATCHLINE ARROW (E3.1)
- SECTION IDENTIFIER (1 / E-001)
- DETAIL OR DRAWING IDENTIFIER (1 / E-001)
- REVISION TAG (1)
- EQUIPMENT IDENTIFIER (AHU-XXX)
- SHEET NOTE

RACEWAY SYMBOLS

- CONDUIT IN CEILING OR WALL
- CONDUIT IN FLOOR OR BELOW GRADE
- HOME RUN TO BRANCH CIRCUIT PANELBOARD (4PN-102/1,3,5)
- CABLE TRAY - LADDER TYPE

DIAGRAM SYMBOLS

- CIRCUIT BREAKER
- ARC FLASH ENERGY REDUCTION (AF)
- GROUND FAULT RELAY (GF)
- METER (M)
- TRANSFORMER
- GROUND
- CURRENT TRANSFORMER
- SURGE PROTECTIVE DEVICE (SPD)
- TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS)
- TRANSFER SWITCH
- FAULT CURRENT TAG
- FUSED SWITCH
- SINGLE POLE SINGLE THROW SWITCH
- FUSE

LIGHTING SYMBOLS

- DIMMER SWITCH ($D)
- KEYED SWITCH ($K)
- OCCUPANCY SENSOR CEILING
- OCCUPANCY SENSOR WALL
- SINGLE POLE SWITCH ($)
- THREE-WAY SWITCH ($3)
- FOUR-WAY SWITCH ($4)
- OCCUPANCY SENSOR SWITCH ($OS)
- EXIT SIGN
- LINEAR FIXTURE
- 1X4 LUMINAIRE
- 2X2 LUMINAIRE
- 2X4 LUMINAIRE
- HIGH BAY LUMINAIRE
- STRIP LUMINAIRE
- ROUND SURFACE LUMINAIRE
- BOLLARD
- ROUND CAN LUMINAIRE
- ROUND PENDANT LUMINAIRE
- WALL WASH LUMINAIRE
- WALL LUMINAIRE
- DOUBLE-SIDED EXIT SIGN
- SINGLE-SIDED EXIT SIGN
- PHOTOCELL

POWER SYMBOLS

- GROUND BAR
- JUNCTION BOX
- JUNCTION BOX CEILING (CLNG)
- JUNCTION BOX FLOOR
- POWER POLE
- POWER SWITCH ($)
- DUPLEX RECEPTACLE FLOOR
- DUPLEX RECEPTACLE WALL (XX")
  XX" = MOUNTING HEIGHT
  G = GROUND FAULT CIRCUIT INTERRUPTER
  WP = WEATHERPROOF
  C = CONTROLLED
- TVSS DUPLEX RECEPTACLE WALL PROVIDE MULTI-SYSTEM WALL BOX. SEE DETAIL 8/E9.02
- FOURPLEX RECEPTACLE FLOOR
- FOURPLEX RECEPTACLE WALL
- CORD REEL
- SIMPLEX RECEPTACLE
- SPECIAL RECEPTACLE CEILING
- SPECIAL RECEPTACLE FLOOR
- SPECIAL RECEPTACLE WALL
- SAFETY DISCONNECT SWITCH (FUSED)
- PANELBOARD
- EQUIPMENT CONNECTION. REFER TO MOTOR AND EQUIPMENT SCHEDULE FOR REQUIREMENTS

FIRE ALARM SYMBOLS

- HEAT DETECTOR
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- FIREFIGHTER PHONE
- MASTER CALL BOX
- PULL STATION
- SPEAKER STROBE WALL
- SPEAKER STROBE CEILING
- STROBE WALL
- STROBE CEILING
- FLOW SWITCH
- POST INDICATOR VALVE
- TAMPER SWITCH

COMMUNICATION SYMBOLS

- COMM SPEAKER CEILING
- COMM SPEAKER WALL
- DATA OUTLET (# INDICATES DROP COUNT)
- DATA OUTLET CEILING (CLNG)
- DATA OUTLET FLOOR
- VOICE/DATA OUTLET
- VOICE/DATA OUTLET CEILING (CLNG)
- VOICE/DATA OUTLET FLOOR
- TELEPHONE OUTLET
- TELEPHONE OUTLET FLOOR
- WIRELESS ACCESS POINT
- COMBINATION CLOCK/INTERCOM SPEAKER
- ANALOG CLOCK (AG)
- COMBINATION CLOCK/MESSAGE BOARD (MB)
- INTERCOM CALL BUTTON

CLASSROOM AV SYSTEM SYMBOLS

- ANTENNA
- CATV OUTLET
- MICROPHONE OUTLET
- TV OUTLET
- VOLUME CONTROL
- WIRELESS TOUCHPAD
- CONTROL PANEL WALL
- AV/CLASSROOM SPEAKER WALL
- AV/CLASSROOM SPEAKER CEILING
- AV PLATE WALL (AMP = AMPLIFIER)
- AV PLATE CEILING (AMP = AMPLIFIER)
- WIRELESS MEDIA CONNECTOR WALL
- WIRELESS MEDIA CONNECTOR CEILING

SECURITY SYMBOLS

- CAMERA
- CARD READER
- DOOR BELL
- DOOR CONTACT
- LOCKDOWN PUSHBUTTON
- DOOR LOCK OVERRIDE PUSHBUTTON
- ELECTRIC STRIKE
- GLASS BREAK DETECTOR
- MAGNETIC LOCK
- MOTION DETECTOR WALL
- MOTION DETECTOR CEILING
- ADA PUSHBUTTON
- REQUEST TO EXIST
- KEYPAD
- INTERCOM WALL
- ELECTRIC LOCK

ELECTRICAL SHEET LIST

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ELECTRICAL LEGEND

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ABBREVIATIONS:

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPR	DAMPER
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HOA	HANDS-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SW
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QUAN	QUANTITY
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
▲	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

ELECTRICAL GENERAL NOTES:

GENERAL:

1. COORDINATE ELECTRICAL WORK WITH MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
2. FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDE ALL LINE VOLTAGE CIRCUITING AND CONNECTIONS TO MECHANICAL EQUIPMENT, PACKAGED UNITS, CONTROL PANELS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE FREQUENCY DRIVES AND SIMILAR EQUIPMENT. COORDINATE ADDITIONAL REQUIREMENTS WITH CONTROLS CONTRACTOR.
4. COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS.
5. COORDINATE ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY WORK PRIOR TO INSTALLATION. EQUIPMENT ACCESS TAKES PRECEDENCE OVER CONDUIT FOR AVAILABLE SPACE.
6. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
7. PROVIDE CONDUCTORS OPERATING AT 50 VOLTS OR GREATER IN RACEWAY. PROVIDE METAL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB. PROVIDE PVC RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE.
8. CONDUIT AND WIRE IS NOT PERMITTED TO BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.
9. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
10. PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.
11. PERFORM ELECTRICAL WORK UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.
12. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL DOCUMENTATION REQUIRED TO CITY OF ABERDEEN FOR PERMITTING. COORDINATE WITH ENGINEER FOR ANY ADDITIONAL DOCUMENTATION.
13. PROVIDE NEW, COMMERCIAL GRADE MATERIALS FURNISHED FOR THIS PROJECT THAT ARE FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNO.
14. CONTRACTOR IS RESPONSIBLE FOR WIRING ELECTRICAL ITEMS SHOWN ON DRAWINGS.
15. PROVIDE 4" MINIMUM CONCRETE BASES (HOUSEKEEPING PADS) UNDER FLOOR MOUNTED ELECTRICAL EQUIPMENT. THIS INCLUDES, BUT IS NOT LIMITED TO SWITCHBOARDS, GENERATORS, TRANSFORMERS, AND MOTOR CONTROL CENTERS. COMPLY WITH REQUIREMENTS FOR EQUIPMENT BASES AND FOUNDATIONS SPECIFIED IN DIVISION 03.
16. COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
17. MAINTAIN INDICATED FIRE AND SMOKE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT ELECTRICAL PENETRATIONS. SEAL PENETRATIONS WITH FIRESTOP MATERIAL. PROVIDE MATERIAL IN ACCORDANCE WITH ASTM E 814 AND UL 1479 3M OR APPROVED. COMPLY WITH REQUIREMENTS SPECIFIED IN DIVISION 07.
18. PROVIDE FIREBLOCKING AND DRAFT STOPPING AT ELECTRICAL PENETRATIONS IN COMBUSTIBLE CONCEALED SPACES PER THE INTERNATIONAL BUILDING CODE.
19. REFER TO TYPICAL DETAILS PROVIDED IN THIS DRAWING SET FOR EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
20. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF ELECTRICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE ELECTRICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF THEIR OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
22. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED CONDUIT AND SIMILAR ITEMS.
23. PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
24. BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
25. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

EXISTING ELECTRICAL:

1. WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
2. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
3. WHERE INDICATED, CONDUIT OR PORTIONS OF CONDUIT SHALL BE REUSED. REFER TO DRAWING PLANS FOR POINTS OF CONNECTIONS.
4. PROVIDE TEMPORARY SUPPORT OF EXISTING ELECTRICAL SYSTEMS WHERE REQUIRED BY DEMOLITION OR ALTERATION OF EXISTING STRUCTURE DURING CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE ALL NECESSARY CONDUIT AND EQUIPMENT SUPPORTS AND HANGERS TO MAINTAIN INTEGRITY, SAFETY AND PROPER OPERATION OF EXISTING ELECTRICAL SYSTEMS FOR THE DURATION OF THE WORK.

DEMOLITION:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE DEMOLITION/INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BY NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.
2. COORDINATE WITH OTHER TRADES FOR PROPER DEMOLITION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. RESOLVE CONFLICTS PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.
3. TAKE CAUTION IN DEMOLITION OF ELECTRICAL EQUIPMENT.
4. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL CONDUIT AND EQUIPMENT INDICATED ON DRAWINGS INCLUDING ALL ASSOCIATED HANGERS, WIREMOLD, WIRING, DEVICES, CONTROLS, AND APPURTENANCES ASSOCIATED WITH EACH PIECE OF EQUIPMENT.
5. EXISTING CONTROL PATHWAYS MAY BE RE-USED. COORDINATE CONTROLS DEMO WORK PRIOR TO DEMOLITION.
6. WHERE EXISTING ITEMS PENETRATE A WALL OR ROOF, CONTRACTOR SHALL PROVIDE INFILL AT (E) PENETRATIONS THROUGH WALL/ROOF WITH LIKE MATERIALS. PATCH & REPAIR TO MATCH SURROUNDING SURFACES INCLUDING PAINT.
7. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF EXISTING ELECTRICAL EQUIPMENT WHERE REQUIRED BY DEMOLITION OR ALTERATION OF EXISTING STRUCTURE DURING CONSTRUCTION. COORDINATE WITH GC AND PROVIDE NECESSARY SUPPORTS AND HANGERS TO MAINTAIN INTEGRITY, SAFETY AND PROPER OPERATION OF EXISTING ELECTRICAL SYSTEMS.
8. THE OWNER HAS THE RIGHT TO RETAIN OWNERSHIP OF ANY MATERIALS BEING REMOVED. DELIVER ITEMS TO THE OWNER'S REPRESENTATIVE AS INDICATED IN THE CONTRACT DOCUMENTS. NOTIFY OWNER IN WRITING AT LEAST 7 DAYS IN ADVANCE OF DEMOLITION.

FIRE ALARM GENERAL NOTES:

GENERAL:

1. FIRE ALARM DESIGN SHALL BE A SEPARATE DEFERRED PERMIT SUBMITTAL. FIRE ALARM EQUIPMENT AND DEVICES SHOWN ARE PROVIDED FOR BASIS-OF-DESIGN LAYOUTS AND PERFORMANCE CRITERIA TO SUPPORT BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS, EQUIPMENT, PROGRAMMING, ACCESSORIES, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY INDICATED ON THE DRAWINGS.
2. PROVIDE CONNECTIONS TO ALL DOOR HOLD OPENS. INSTALL NEW TAMPER AND FLOW SWITCHES AT SPRINKLER RISER(S) AS WELL AS DCVA VAULTS AND PIV. PROVIDE ALL CONNECTIONS AS REQUIRED BY SUPERVISORY, ALARM, TROUBLE, LOW AIR, WATER FLOW ETC., AS APPLICABLE.
3. TEST FIRE ALARM WIRING FOR CIRCUIT CONTINUITY. REPLACE ANY WIRING THAT IS FOUND TO BE DEFECTIVE.
4. COMPLY WITH ADA REQUIREMENTS FOR THE INSTALLATION OF ALL FIRE ALARM MANUAL PULL STATIONS AND AUDIO-VISUAL DEVICES.
5. EMERGENCY PANEL IS SUPPLIED BY THE GENERATOR. THIS PANEL SERVES THE FIRE ALARM PANEL.
6. PROVIDE ADDITIONAL REMOTE ANNUNCIATORS AS REQUIRED BY THE AHJ. ALL FIRE ALARM POWER INCLUDING POWER SUPPLIES SHALL BE FED VIA EMERGENCY PANEL.
7. CONTRACTOR TO FIELD VERIFY CEILING STRUCTURE AND PROVIDE ADDITIONAL COVERAGE AS REQUIRED.
8. PROVIDE WIRE GUARDS FOR ALL SPEAKER/STROBES, SMOKES OR BEAM DETECTOR DEVICES IN GYM AREAS.
9. PROVIDE TAMPER SWITCHES IN VAULTS AND CONNECT TO THE NEW FIRE ALARM SYSTEM.
10. CONNECT HVAC SYSTEM INTO NEW FIRE ALARM SYSTEM FOR SHUTDOWN OF HVAC SYSTEM UPON ALARM. PROVIDE PROGRAMMING AND DEVICES FOR GLOBAL SHUTDOWN OF HVAC SYSTEM. COORDINATE REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
11. PER NFPA 72, THE FIRE ALARM CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONTRACTOR'S MANUAL AND TEST CERTIFICATE PRIOR TO ANY ACCEPTANCE TESTING WITH THE AHJ.
12. OWNER SHALL APPROVE ALL VERBIAGE FOR ADDRESSABLE DEVICE LOCATIONS PRIOR TO THE FINAL PROGRAMMING OF THE FIRE ALARM CONTROL PANEL.
13. PROVIDE COMMISSIONING OF THE FIRE ALARM SYSTEM WITH OWNER AT THE SAME TIME AS THE FINAL INSPECTION WITH THE AHJ.
14. A COMPLETE SET OF AS BUILT DRAWINGS SHALL BE GIVEN TO OWNER FIRE ALARM PERSONNEL AT COMMISSIONING.

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Project

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510 N I ST, Aberdeen

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ELECTRICAL ABBREVIATIONS AND GENERAL NOTES

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LIGHTING CONTROL SEQUENCE OF OPERATION:

GENERAL:

1. PROVIDE AUXILIARY CONTACT FOR INTERFACE TO ENERGY MANAGEMENT SYSTEM FOR CONTROL OF DAMPERS DURING UNOCCUPIED TIMES.
2. VACANCY/OCCUPANCY SENSORS SHALL BE CONNECTED TOGETHER FOR CONTROL OF ALL LIGHTS IN THE ROOM. SET UP SENSORS IN VACANCY MODE. VACANCY SENSOR TIME OUT PERIOD SHALL BE SET FOR 15-MINUTES.
3. PHOTOCELLS TO BE INSTALLED IN EDGE OF PRIMARY AND SECONDARY DAYLIGHT ZONES. TRIGGER ONE OF THE PHOTOCELLS TO CONTROL LIGHTS IN PRIMARY DAYLIGHT ZONES, TRIGGER TWO OF THE PHOTOCELLS TO CONTROL LIGHTS IN SECONDARY DAYLIGHT ZONES.
4. PROGRAMMING SHALL BE PROVIDED FOR TIME ADJUSTMENT OF LIGHTS ON SITE.
5. ALL LIGHTS WHERE INDICATED SHALL BE CONTROLLED VIA 0-10V DIMMING.
6. THE LIGHTING CONTROL SYSTEM SPECIFIED IN THIS SECTION IS TO BE INTEGRATED WITH THE BUILDING MANAGEMENT SYSTEM TO FORM A COMPLETE OPERATIONAL SYSTEM PERFORMING THE FOLLOWING SEQUENCE OF OPERATIONS.
7. THE LIGHTING CONTROLS OPERATE THE LUMINAIRES IN EACH ZONE AND THE LIGHTING CONTROL SYSTEM AND BAS MONITORS THE LIGHTING SYSTEM VIA BACNET CONNECTION AS INDICATED AND PROVIDES FLOOR PLAN AND INDIVIDUAL ZONE LIGHTING SYSTEM GRAPHICS.
8. ALARMS: COORDINATE ALARMS WITH OWNER.

SEQUENCE OF OPERATION:

- TYPICAL CLASSROOM
  - THE LIGHTING CONTROLS MONITOR THE CLASSROOM OCCUPANCY SENSORS, PHOTOCELLS, SWITCHES AND PERFORMS THE FOLLOWING:
    - LIGHTING CONTROL IS MANUAL ON FROM THE PRIMARY LIGHT SWITCH AND AUTOMATIC OFF VIA THE OCCUPANCY SENSORS.
    - IF THE ROOM BECOMES OCCUPIED, BASED UPON A SIGNAL FROM THE ROOM PRIMARY LIGHT SWITCH, THE INTERIOR LIGHT ZONE COMES ON AND THE TWO DAYLIGHTING ZONES ARE MODULATED TO MAINTAIN THE LIGHTING LEVEL SETPOINT (ADJ) AS MEASURED BY THE PHOTOCELL. LIGHTING SHALL BE DIM TO OFF.
    - THE TEACHER LIGHT SWITCHES ALLOW THE TEACHER TO MANUALLY OVERRIDE THE AUTOMATIC CONTROLS OF THE LIGHTS TO REDUCE THE LIGHTING IN THE ROOM. EACH SWITCH SHALL CONTROL AS FOLLOWS: SWITCH "OFF" TURNS OFF THE LUMINAIRES IN ITS RESPECTIVE LIGHTING ZONE; SWITCH "ON" REVERTS TO AUTOMATIC CONTROL. THE SWITCH ALSO ALLOWS FOR DIMMING OF EACH ZONE INDEPENDENTLY OF ADJACENT ZONES. DIMMING CONTROL SHALL NOT ALLOW OVERRIDE OF DAYLIGHT SENSOR SETPOINT.
    - IF THE ROOM BECOMES UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE TURNED OFF AFTER AN ADJUSTABLE TIME DELAY (INITIALLY SET AT 10 MINUTES). ONCE THE LIGHTS GO OFF, PROVIDE AN ADJUSTABLE GRACE PERIOD (INITIALLY SET AT 10 SECONDS) DURING WHICH THE LIGHTS WILL AUTOMATICALLY COME BACK ON IF OCCUPANCY IS SENSED.
- TYPICAL OFFICE ZONE PERIMETER ZONE
  - THE LIGHTING CONTROLS MONITOR THE OCCUPANCY SENSORS, PHOTOCELLS, SWITCHES AND PERFORMS THE FOLLOWING:
    - LIGHTING CONTROL IS MANUAL ON FROM THE PRIMARY LIGHT SWITCH AND AUTOMATIC OFF VIA THE OCCUPANCY SENSORS.
    - IF THE ROOM BECOMES OCCUPIED, BASED UPON A SIGNAL FROM THE ROOM PRIMARY LIGHT SWITCH, THE INTERIOR LIGHT ZONE COMES ON AND THE ONE OR TWO DAYLIGHTING ZONES ARE MODULATED TO MAINTAIN THE LIGHTING LEVEL SETPOINT (ADJ) AS MEASURED BY THE PHOTOCELL. LIGHTING SHALL BE DIM TO OFF.
    - THE SWITCHES (ONE PER LIGHTING ZONE) ALLOW THE USER TO MANUALLY OVERRIDE THE AUTOMATIC CONTROLS OF THE LIGHTS TO REDUCE THE LIGHTING IN THE ROOM. EACH SWITCH SHALL CONTROL AS FOLLOWS: SWITCH "OFF" TURNS OFF THE LUMINAIRES IN ITS RESPECTIVE LIGHTING ZONE; SWITCH "ON" REVERTS TO AUTOMATIC CONTROL. THE SWITCH ALSO ALLOWS FOR DIMMING OF EACH ZONE INDEPENDENTLY OF ADJACENT ZONES. DIMMING CONTROL SHALL NOT ALLOW OVERRIDE OF DAYLIGHT SENSOR SETPOINT.
    - IF THE ROOM BECOMES UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE TURNED OFF AFTER AN ADJUSTABLE TIME DELAY (INITIALLY SET AT 10 MINUTES). ONCE THE LIGHTS GO OFF, PROVIDE AN ADJUSTABLE GRACE PERIOD (INITIALLY SET AT 10 SECONDS) DURING WHICH THE LIGHTS WILL AUTOMATICALLY COME BACK ON IF OCCUPANCY IS SENSED.
- GYMNASIUM/COMMONS
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE LIGHTING CONTROLS IN OCCUPIED OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
  - OCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
    - THE LIGHTING CONTROLS MONITOR THE ZONE OCCUPANCY SENSORS AND PERFORMS THE FOLLOWING FUNCTIONS:
      - LIGHTING CONTROL IS MANUAL ON FROM THE PRIMARY LIGHT SWITCH AND AUTOMATIC OFF VIA THE OCCUPANCY SENSORS.
      - IF THE ROOM BECOMES OCCUPIED, BASED UPON A SIGNAL FROM THE ROOM PRIMARY LIGHT SWITCH, THE DAYLIGHTING ZONES ARE MODULATED TO MAINTAIN THE LIGHTING LEVEL SETPOINT (ADJ) AS MEASURED BY THE PHOTOCELL. LIGHTING SHALL BE DIM TO OFF.
      - THE LIGHT SWITCHES ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE AUTOMATIC CONTROLS OF THE LIGHTS TO REDUCE THE LIGHTING IN THE ROOM. EACH SWITCH SHALL CONTROL AS FOLLOWS: SWITCH "OFF" TURNS OFF THE LUMINAIRES IN ITS RESPECTIVE LIGHTING ZONE; SWITCH "ON" REVERTS TO AUTOMATIC CONTROL. THE SWITCH ALSO ALLOWS FOR DIMMING OF EACH ZONE INDEPENDENTLY OF ADJACENT ZONES. DIMMING CONTROL SHALL NOT ALLOW OVERRIDE OF DAYLIGHT SENSOR SETPOINT.
      - IF THE ROOM BECOMES UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE TURNED OFF AFTER AN ADJUSTABLE TIME DELAY (INITIALLY SET AT 10 MINUTES). ONCE THE LIGHTS GO OFF, PROVIDE AN ADJUSTABLE GRACE PERIOD (INITIALLY SET AT 10 SECONDS) DURING WHICH THE LIGHTS WILL AUTOMATICALLY COME BACK ON IF OCCUPANCY IS SENSED.
  - UNOCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
    - THE LIGHTING CONTROLS TURN OFF ALL THE LIGHTS.
  - TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE SWITCH IS ENABLED.
- TYPICAL MISCELLANEOUS INTERIOR ZONE
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE LIGHTING CONTROLS IN OCCUPIED OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
  - OCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
    - THE LIGHTING CONTROLS MONITOR THE ZONE OCCUPANCY SENSORS AND PERFORMS THE FOLLOWING FUNCTIONS:
      - IF THE ZONE IS UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL DIM TO 0% (ADJ).
      - IF THE ROOM BECOMES OCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE SWITCHES TO 100%.
  - UNOCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
    - THE LIGHTING CONTROLS TURN OFF ALL THE LIGHTS.
  - TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE SWITCH IS ENABLED.
- TYPICAL MISCELLANEOUS PERIMETER ZONE
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE LIGHTING CONTROLS IN OCCUPIED OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
  - OCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
    - THE LIGHTING CONTROLS MONITOR THE ZONE OCCUPANCY SENSORS AND PHOTOCELL AND PERFORMS THE FOLLOWING FUNCTIONS:
      - IF THE ZONE IS UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL DIM TO THE LESSER OF 0% (ADJ) OR THE DAYLIGHT LEVEL AS DETERMINE BY THE PHOTOCELL. LIGHTING SHALL DIM TO OFF.
      - IF THE ROOM BECOMES OCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE SWITCHED DAYLIGHTING CONTROL PER THE PHOTOCELL.
  - UNOCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
    - THE LIGHTING CONTROLS TURN OFF ALL THE LIGHTS.
  - TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE OCCUPANCY SENSOR SENSES OCCUPANCY. IN THIS MODE, LIGHTS SHALL BE DIMMED TO 30% (ADJ).
  - KEYED SWITCH OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE KEYED SWITCH IS ENABLED. MODE SHALL LAST FOR 1 HOUR (ADJ).
- HALLWAY/COMMON AREA INTERIOR ZONE
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE LIGHTING CONTROLS IN OCCUPIED OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
  - OCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
    - THE LIGHTING CONTROLS MONITOR THE ZONE OCCUPANCY SENSORS AND PERFORMS THE FOLLOWING FUNCTIONS:
      - IF THE ZONE IS UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL DIM TO 0% (ADJ).
      - IF THE ROOM BECOMES OCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE SWITCHES TO 100%.
  - UNOCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
    - THE LIGHTING CONTROLS TURN OFF ALL THE LIGHTS.
  - TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE OCCUPANCY SENSOR SENSES OCCUPANCY. IN THIS MODE, LIGHTS SHALL BE DIMMED TO 30% (ADJ).
  - KEYED SWITCH OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE KEYED SWITCH IS ENABLED. MODE SHALL LAST FOR 1 HOUR (ADJ).
- HALLWAY/COMMON AREA PERIMETER ZONE
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE LIGHTING CONTROLS IN OCCUPIED OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
  - OCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
    - THE LIGHTING CONTROLS MONITOR THE ZONE OCCUPANCY SENSORS AND PHOTOCELL AND PERFORMS THE FOLLOWING FUNCTIONS:
      - IF THE ZONE IS UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL DIM TO THE LESSER OF 0% (ADJ) OR THE DAYLIGHT LEVEL AS DETERMINE BY THE PHOTOCELL.
      - IF THE ROOM BECOMES OCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE SWITCHED DAYLIGHTING CONTROL PER THE PHOTOCELL.
  - UNOCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
    - THE LIGHTING CONTROLS TURN OFF ALL THE LIGHTS.
  - TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE OCCUPANCY SENSOR SENSES OCCUPANCY. IN THIS MODE, LIGHTS SHALL BE DIMMED TO 30% (ADJ).
  - KEYED SWITCH OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE KEYED SWITCH IS ENABLED. MODE SHALL LAST FOR 1 HOUR (ADJ).
- TYPICAL EXTERIOR ZONE
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE LIGHTING CONTROLS PER THE OWNER'S SCHEDULE.
    - WHEN ENABLED, THE LIGHTING CONTROLS MONITOR THE PHOTOCELL SENSOR AND TURNS THE LIGHTS ON WHEN IT GETS DARK.
    - THE LIGHTING CONTROL SYSTEM DISABLES THE LIGHTING CONTROLS WHICH TURNS OFF THE LIGHTS AT A TIME PER THE OWNER'S SCHEDULES.
- MANUAL OVERRIDES: FOR THE ZONES INDICATED, PROVIDE A MANUAL OVERRIDE SWITCH TO OVERRIDE LIGHTING OFF COMMAND AND TURN ON ITS RESPECTIVE ZONE LIGHTS FOR AN ADJUSTABLE LENGTH OF TIME (INITIALLY SET AT 1 HOUR). OVERRIDE STATUS SHALL BE SHOWN ON THE GRAPHIC INTERFACE WITH AN ADJUSTABLE OVERRIDE PERIOD. DAYLIGHT SENSORS AND PHOTOCELLS SHALL STILL LIMIT LIGHT LEVELS IN OVERRIDE MODE.
  - CUSTODIAL OFFICE:
    - PROVIDE THE FOLLOWING OVERRIDE SWITCHES IN THE CUSTODIAL OFFICE.
      - EXTERIOR CUSTODIAL PARKING.
      - ALL HALLWAY LIGHTS.
      - ALL EXTERIOR LIGHTS.
  - PROVIDE THE FOLLOWING OVERRIDE SWITCHES IN THE RECEPTION WAITING AREA NEAR THE SECURITY PANEL.
    - EXTERIOR ADMINISTRATION PARKING.
- RECEPTACLE CONTROL
  - THE RECEPTACLE CONTROL SYSTEM SHALL UTILIZE THE LIGHTING CONTROL SYSTEM TO PERFORM THE SEQUENCE OF OPERATIONS BELOW.
  - THE LIGHTING CONTROL SYSTEM SPECIFIED IN THIS SECTION IS TO BE INTEGRATED WITH THE RECEPTACLE CONTROLS TO FORM A COMPLETE OPERATIONAL SYSTEM PERFORMING THE FOLLOWING SEQUENCE OF OPERATIONS.
  - THE LIGHTING CONTROL SYSTEM SHALL OPERATE THE RECEPTACLE CONTROLS IN OCCUPIED OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
  - OCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
    - THE RECEPTACLE CONTROLS MONITOR THE ZONE OCCUPANCY SENSORS AND PERFORMS THE FOLLOWING FUNCTIONS:
      - IF THE ZONE IS UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE CONTROLLED RECEPTACLES SHALL TURN OFF.
  - UNOCCUPIED MODE:
    - THE LIGHTING CONTROL SYSTEM PLACES THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
  - TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND THE OCCUPANCY SENSOR SENSES OCCUPANCY.

LIGHTING GENERAL NOTES:

GENERAL:

1. MINIMUM LIGHT INTENSITY OF 10 FOOT CANDLES, FROM GENERAL, TASK, OR NATURAL LIGHTING SHALL BE PROVIDED IN NON-INSTRUCTIONAL AREAS INCLUDING AUDITORIUMS, LUNCHROOMS, ASSEMBLY AREAS, TOILET AND STORE ROOMS, CORRIDORS, AND STAIRS. MAINTAINED LIGHT INTENSITIES SHALL BE PROVIDED AS MEASURED 30 INCHES ABOVE THE FLOOR OR ON WORKING OR TEACHING SURFACES.
2. MINIMUM LIGHT INTENSITY OF 20 FOOT CANDLES, FROM GENERAL, TASK, OR NATURAL LIGHTING SHALL BE PROVIDED IN GYMNASIUMS INCLUDING MAIN AND AUXILIARY SPACES, AND SHOWER AND LOCKER ROOMS. MAINTAINED LIGHT INTENSITIES SHALL BE PROVIDED AS MEASURED 30 INCHES ABOVE THE FLOOR OR ON WORKING OR TEACHING SURFACES.
3. MINIMUM LIGHT INTENSITY OF 30 FOOT CANDLES, FROM GENERAL, TASK, OR NATURAL LIGHTING SHALL BE PROVIDED IN KITCHEN AREAS INCLUDING FOOD STORAGE AND PREPARATION ROOMS. MAINTAINED LIGHT INTENSITIES SHALL BE PROVIDED AS MEASURED 30 INCHES ABOVE THE FLOOR OR ON WORKING OR TEACHING SURFACES.
4. MINIMUM LIGHT INTENSITY OF 50 FOOT CANDLES SHALL BE PROVIDED AT A SURFACE WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR.
5. MINIMUM LIGHT INTENSITY OF 30 FOOT CANDLES, FROM GENERAL, TASK, OR NATURAL LIGHTING SHALL BE PROVIDED IN INSTRUCTIONAL AREAS INCLUDING STUDY HALLS, LECTURE ROOMS, AND LIBRARIES. IN ROOMS WITH COMPUTERS, OR DURING AUDIO-VISUAL PRESENTATIONS, LIGHTING MAY BE REDUCED. MAINTAINED LIGHT INTENSITIES SHALL BE PROVIDED AS MEASURED 30 INCHES ABOVE THE FLOOR OR ON WORKING OR TEACHING SURFACES.
6. USE OF LIGHT FIXTURE COVERS TO REDUCE CLASSROOM LIGHTING BELOW 30 FOOT CANDLES IS NOT ALLOWED. EXCEPTIONS MAY BE MADE FOR SPECIAL NEEDS CLASSROOMS EXCEPT DURING READING TIME OR WHEN FINE WORK IS BEING DONE. COVERS MUST MEET FIRE CODE STANDARDS AND BE REMOVABLE.
7. MINIMUM LIGHT INTENSITY OF 50 FOOT CANDLES, FROM GENERAL, TASK OR NATURAL LIGHTING SHALL BE PROVIDED IN SPECIAL INSTRUCTIONAL AREAS WHERE SAFETY IS OF PRIME CONSIDERATION OR FINE DETAIL WORK IS DONE INCLUDING: SEWING ROOMS, LABORATORIES (INCLUDING CHEMICAL STORAGE AREAS), SHOPS (CAREER AND TECHNICAL EDUCATION), DRAFTING ROOMS, AND ART AND CRAFT ROOMS. MAINTAINED LIGHT INTENSITIES SHALL BE PROVIDED AS MEASURED 30 INCHES ABOVE THE FLOOR OR ON WORKING OR TEACHING SURFACES.
8. ANY TIME A BUILDING IS OCCUPIED, THE PATH OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOT CANDLE AT THE FLOOR LEVEL. (EXCEPTION: 0.2 FOOT CANDLE DURING A PERFORMANCE IN A THEATER OR AUDITORIUM IF IT WILL BE AUTOMATICALLY RESTORED UPON ACTIVATION OF THE FIRE ALARM SYSTEM.) EMERGENCY (EXIT) LIGHTING MAY NEVER BE TURNED OFF.
9. ILLUMINATION FOOTCANDLE LEVELS WERE CALCULATED DURING DESIGN USING BASIS-OF-DESIGN LUMINAIRES AS INDICATED IN THE LUMINAIRE SCHEDULE. IF THE CONTRACTOR IS PROVIDING LUMINAIRES OTHER THAN THE BASIS-OF DESIGN, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ILLUMINATION CALCULATIONS THAT MEET THE MINIMUM ILLUMINATION TARGET FOOTCANDLE LEVELS IN EACH SPACE AS INDICATED BELOW TO THE ENGINEER FOR REVIEW.

MINIMUM ILLUMINATION TARGET FOOTCANDLE LEVELS:

- CLASSROOMS: 35-40FC
- LABORATORY CLASSROOMS: 50-70FC
- OFFICE: 30-40FC
- COMMONS: 20-30FC
- GYMNASIUM: 40-50FC
- CORRIDORS: 15-20FC
- RESTROOMS: 15-20FC
- KITCHEN: 30-50FC
- ALL OTHER SPACES NOT INDICATED ABOVE, SHALL MEET THE RECOMMENDED MINIMUM FOOTCANDLE LEVELS AS NOTED PER WAC 246-366-120 AND THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA).

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Client

ABERDEEN SD #5

Project

HARBOR LEARNING CENTER

2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

Issue & Revision Dates

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LIGHTING NOTES

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LUMINAIRE SCHEDULE

NOTES:
1. FIRST MANUFACTURER LISTED FOR EACH LUMINAIRE TYPE IS BASIS OF DESIGN.

TYPE	DESCRIPTION	MOUNTING	LAMP	LUMENS DOWN	LUMENS UP	CCT	CRI	BALLAST/DRIVER	VOLTAGE	LOAD (KVA)	WATTS	MANUFACTURER	NOTES
EX1	EXIT SIGN, EDGE-LIT, 1-SIDED	SURFACE	LED	0 lm	0 lm	0 K	0	--	277 V	0.00 kVA	2 W	-	
EX2	EXIT SIGN, EDGE-LIT, 2-SIDED	SURFACE	LED	0 lm	0 lm	0 K	0	--	277 V	0.00 kVA	2 W	-	
L1	2X4 TROFFER	RECESSED	LED	4000 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.08 kVA	30 W	-	
L2	4' LINEAR	RECESSED	LED	3600 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.04 kVA	30 W	-	
L3	2X2 TROFFER	RECESSED	LED	4000 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.08 kVA	15 W	-	
L4	8' LINEAR PENDANT	PENDANT	LED	4000 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.07 kVA	30 W	-	
L6	HIGHBAY	PENDANT	LED	17000 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.19 kVA	175 W	-	
L7	6" DOWNLIGHT	RECESSED	LED	1404 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.01 kVA	12 W	-	
L8	14" ROUND SURFACE	SURFACE	LED	2040 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.03 kVA	30 W	-	
L9	4' STRIP	SURFACE	LED	4000 lm	0 lm	4000 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.05 kVA	41 W	-	
L10	CUSTOM COMMONS LUMINAIRE	PENDANT	LED	17600 lm	0 lm	4000 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.10 kVA	88 W	-	
L11	4' WALL STRIP	SURFACE WALL	LED	4000 lm	0 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.06 kVA	50 W	-	
L12	4' WALL DIRECT/INDIRECT	WALL	LED	549 lm	1282 lm	3500 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	0.04 kVA	38 W	-	
R9	BOLLARD, ASYMMETRIC, WHITE	--	LED	1191 lm	0 lm	4000 K	70	LED DRIVER	277 V	0.02 kVA	22 W	-	
S1	POLE MOUNTED ARM: 25' ROUND TAPERED ALUMINUM POLE	POLE	LED	11787 lm	0 lm	4000 K	80	LED DRIVER, 0-10V DIMMING, 1%	277 V	1.00 kVA	100 W	-	
W1	EXTERIOR WALL PACK	WALL	LED	3215 lm	0 lm	3000 K	70	LED DRIVER	277 V	0.04 kVA	39 W	-	

LIGHTING CONTROL MATRIX

SPACE TYPE	MANUAL ON	MANUAL OFF	MULTIZONE SWITCHING	DIMMING	TIME CONTROLLED	OCCUPANCY SENSORS	DAYLIGHT SENSORS	PLUG LOAD CONTROLLER
CLASSROOM	X	X	X	X		X	X	X
OFFICE	X	X		X		X	X	X
WORKROOM	X	X		X		X	X	X
RECEPTION	X	X		X		X	X	X
CONFERENCE	X	X		X		X	X	X
RESTROOMS	X	X			X	X		
HEALTH OFFICE	X	X		X		X	X	X
GYM	X	X	X	X	X	X	X	
COMMONS	X	X	X	X	X	X	X	
CAFETERIA	X	X	X	X	X	X	X	
KITCHEN	X	X				X		
STORAGE	X	X				X		
MECHANICAL/ELECTRICAL	X	X						
MDF/IDF	X	X						
NON-RATED CORRIDORS	X	X			X	X	X	
SITE/ BUILDING EXTERIOR	X	X			X	X	X	

GENERAL NOTES:

EGRESS LIGHTING DENSITY CALCULATION

FIXTURE ID	WATTAGE	QUANTITY
L1	30	-
L2	50	-
L3	50	-
L5	75	-
L6	13	-
L9	30	-
TOTAL EGRESS LIGHTING WATTAGE: 2,106 W		
BUILDING SQUARE FOOTAGE: 30,760		
WATTS PER SQUARE FOOT: 0.067		

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IT RESPONSIBILITY MATRIX

Key Name	RESPONSIBILITY	TYP.	NOTES
27 1323 & 27 1513 COMMUNICATIONS OPTICAL FIBER & COPPER HORIZONTAL CABLING			
1.01	DISTRICT FIBER SERVICE (INCL. DEMARC IN BUILDING)	OFOI	DISTRICT-OWNED FIBER OPTIC CABLE
1.02	DISTRICT COPPER PHONE LINE SERVICE (INCL. DEMARC IN BUILDING)	OFOI	PROVIDER: GRANITE TELECOMMUNICATIONS
1.03	PATHWAYS/VAULTS TO PROPERTY LINE FOR OSP SERVICE PROVIDER CABLING	CFCI	TO INCLUDE CONDUIT RISER UP POLE, IF REQ'D COORD. ONGOING
1.04	PATHWAYS/VAULTS TO UNDERGROUND BETWEEN BUILDINGS	CFCI	
1.05	FIBER AND COPPER BACKBONE CABLING BETWEEN MDF/IDF/BUILDINGS	CFCI	REQ'S: 12-STRAND SINGLE MODE PLUS (2) CAT-6 COPPER
1.06	CATEGORY 6 HORIZONTAL CABLING (SUPPORTING NETWORK AND IP SYSTEMS)	CFCI	
1.07	CATEGORY 6A HORIZONTAL CABLING (SUPPORTING WAPS)	CFCI	
1.08	FIBER CABLING TO OUT-OF-LENGTH DEVICES (E.G, SITE CAMERAS)	CFCI	
1.09	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
1.10	CABLING SUPORT/J-HOOKS ABOVE CEILINGS	CFCI	
1.11	COPPER & FIBER PATCH CORDS IN MDFS/IDFS FOR SWITCHES	CFOI	PATCH CORDS IN VARIABLE LENGTHS AS NEEDED FOR CONNECTIONS
1.12	COPPER & FIBER PATCH CORDS AT FIELD DEVICES (INCL. WAPS, ACPS, IACPS, FACPS, IDM/TVS, AV, IP INTERCOM, CAMERAS, ETC)	CFCI	EXCEPTION: COPPER PATCH CABLES FOR WAPS AND TVS ARE CUSTOMER PROVIDED
1.13	COPPER & FIBER PATCH CORDS FROM WALL OUTLETS TO WORKSTATIONS (INCL. COMPUTERS, IP PHONES, PRINTERS, ETC.)	CFOI	
1.14	EQUIPMENT RACKS & ENCLOSURES	CFCI	
1.15	COPPER PATCH PANELS & FIBER LIUS	CFCI	PATCH PANEL/SWITCH/LIU LAYOUT REQ'S
1.16	VERTICAL & HORIZONTAL WIRE MANAGMENTS FOR RACKS & ENCLOSURES	CFCI	WIRE MANAGEMENT REQ'S
1.17	CABLE TRAY IN MDF/IDFS	CFCI	
1.18	POWER IN MDFS/IDFS (INCL. RACK & WALL EQUIPMENT)	CFCI	REQ'S
1.19	UPS'S IN MDF/IDFS	OFOI	REQ'S
1.20	PDU'S IN MDF/IDFS	CFCI	REQ'S
1.21	HVAC COOLING IN MDF/IDFS (BY DIV. 23)	CFCI	
1.22	GROUNDING AND BONDING BETWEEN MDF/IDFS/RACKS	CFCI	
1.23	FIRESTOPPING	CFCI	
1.24	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	
1.25	PC WORKSTATIONS AND MONITORS	OFOI	
1.26	WAPS	OFCI	
1.27	WAP ENCLOSURES - INTERIOR (WHERE REQ'D)	OFCI	
1.28	WAP ENCLOSURES - EXTERIOR (WHERE REQ'D)	OFCI	
1.29	NETWORKS PROGRAMMING, QOS, VLANS (INCL. DATA, SECURITY, A/V, INTERCOM, ETC)	OFOI	
1.30	NETWORK SERVERS, LICENSING & PROGRAMMING	OFOI	
1.31	NETWORK SWITCHES, LICENSING & PROGRAMMING (INCL. POE, CCTV SWITCHES, PON, ETC)	OFOI	
1.32	PRINTERS, FAX MACHINES, MODEMS, ETC.	OFOI	
1.33	IP TELEPHONES	OFOI	
1.34	IP TELEPHONE SERVERS	OFOI	
1.35	IP TELEPHONE SYSTEM PROGRAMMING	OFOI	
1.36	POTS LINES FOR EMERGENCY PHONES, FAXES & WHERE REQ'D	CFCI	CONTRACTOR SHALL INSTALL CAT-6 CABLE FOR EACH LOCATION OF AN ANALOG VOICE CONNECTION FROM NEAREST IDF
27 4116 COMMONS/GYM AUDIO-VISUAL SYSTEM			
2.01	DEVICE BACKBOX & CONDUIT ROUGH-IN (INCL. LOCKING CONTROL PANEL BOX & COVER)	CFCI	
2.02	MOBILE SOUND CART W/ MIXER (WHEN REQ'D)	CFCI	
2.03	MEDIA PLAYERS (INCL. BLU-RAY, DVD, CD, USB, MP3, BLUETOOTH & 3.5MM AUDIO)	CFCI	
2.04	DIGITAL SIGNAL PROCESSOR & PROGRAMMING	CFCI	
2.05	CONTROL PROCESSOR, CONTROL PANELS & PROGRAMMING	CFCI	
2.06	SYSTEM NETWORK SETTINGS (WHERE REQ'D): IP ADDRESSES, SUBNET MASK, GATEWAY	OFCI	MAC ADDRESSES REQUIRED FOR OWNER'S DHCP IP RESERVATIONS.
2.07	COMPUTER(S)/TABLET(S) (FOR SYSTEM REMOTE CONTROL)	CFCI	
2.08	LOUDSPEAKERS, MOUNTS & AMPLIFIERS (INSTALLED)	CFCI	
2.09	LOUDSPEAKERS & STANDS (MOBILE FLOOR MONITORS)	CFCI	
2.10	SYSTEM INPUT/OUTPUT PLATES & CABLING	CFCI	
2.11	MICROPHONES (WIRED), DIRECT INPUT BOXES, MIC STANDS & CABLES	CFCI	
2.12	MICROPHONES (WIRELESS), ANTENNAS, RECEIVERS & CABLES	CFCI	
2.13	SPECIALTY AV CABLING; F/UTP CAT 6/6A, COAXIAL, SPEAKER, MICROPHONE/LINE, ETC.	CFCI	
2.14	SPECIALTY AV NETWORKING EQUIPMENT: SWITCHES, ROUTERS & WAPS	CFCI	
2.15	PATCH CABLES FOR OFOI-DEVICE CONNECTION INTO SYSTEMS (HDMI, AUDIO, ETC.)	CFCI	
2.16	PATCH CABLES CFCI-DEVICE CONNECTION (MICROPHONES, PROJECTOR HDMI, ETC.)	CFCI	
2.17	ADA-COMPLIANT ASSISTIVE LISTENING KIT(S), WIRING, SIGNAGE & COMPONENTS	CFCI	
2.18	PROJECTORS, MOUNTS, CAGES/WIREGUARDS, AND/OR VIDEO WALLS/SCOREBOARDS	CFCI	
2.19	SYSTEM RACK, EQUIPMENT, SHELVES, DRAWERS, ETC.	CFCI	
2.20	UPS, PDU & POWER-SEQUENCING EQUIPMENT	CFCI	
2.21	VIDEO SWITCHERS & EXTENDERS	CFCI	
2.22	PODIUM	OFOI	
2.23	THEATRICAL LIGHTING (BY DIV. 26)	CFCI	
2.24	FIRE ALARM RELAY INTEGRATION (FOR MUTING AUDIO, BY 283176)	CFCI	
2.25	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	
27 5113 INTERCOM AND CLOCK SYSTEM			
3.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
3.02	SPECIALTY BACK BOXES (E.G CLOCK/SPEAKERS, WEATHERPROOF EXTERIOR BOXES, ETC.)	CFCI	
3.03	INTERCOM MASTER CONSOLE (WHEN REQ'D)	CFCI	
3.04	IP ANALOG CLOCKS	CFCI	
3.05	INTERCOM HORN DEVICES	CFCI	
3.06	ANALOG SPEAKERS AND AMPLIFIERS (CORRIDOR AND COMMON SPACES)	CFCI	
3.07	ZONE CONTROLLERS AND IP GATEWAY MODULES	CFCI	
3.08	SOFTWARE LICENSES	CFCI	
3.09	SOFTWARE & PROGRAMMING, INTEGRATION TO IP PHONES, ETC.	CFCI	
3.10	SYSTEM NETWORK SETTINGS (WHERE REQ'D): IP ADDRESSES, SUBNET MASK, GATEWAY	OFCI	MAC ADDRESSES REQUIRED FOR OWNER'S DHCP IP RESERVATIONS.
3.11	EMERGENCY ALERT INTEGRATION, PROGRAMMING, MESSAGING, ETC.	CFCI	
3.12	FIRE ALARM RELAY INTEGRATION (FOR MUTING AUDIO, BY 283176)	CFCI	
3.13	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	
27 5123 CLASSROOM AUDIO-VISUAL SYSTEM			
4.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
4.02	NON-INTERACTIVE FLAT PANEL DISPLAYS OR PROJECTORS	CFCI	
4.03	INTERACTIVE FLAT PANEL DISPLAYS OR PROJCETORS	CFCI	
4.04	FLAT PANEL DISPLAY OR PROJECTOR MOUNTS (FIXED, ADJUSTIBLE, CARTS, ETC.)	CFCI	
4.05	USB PATCH CORDS BEHIND MONITORS OR PROJECTORS	CFCI	
4.06	USB PATCH CORDS FROM WALL OUTLETS TO WORKSTATIONS	CFCI	
4.07	USB EXTENDERS/SWITCHES	CFCI	
4.08	AV INPUT/OUTPUT PLATES & CABLING (HDMI, USB, AUDIO IN/OUT)	CFCI	
4.09	AV CONTROL PANEL PLATES & CABLING (TOUCHSCREEN/BUTTON)	CFCI	
4.10	AUDIO AMPLIFIER/VIDEO SWTICHER (FOR VOICE ENHANCEMENT & MEDIA)	OFCI	
4.11	AV NETWORKED AMPLIFIER INTEGRATION (INCL. TEACHER DEVICE SOFTWARE/PROGRAMMING)	OFCI	

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Key Name	RESPONSIBILITY	TYP.	NOTES
4.12	SYSTEM NETWORK SETTINGS (WHERE REQ'D): IP ADDRESSES, SUBNET MASK, GATEWAY	OFCI	
4.13	AV SPEAKERS, CABLING, MOUNTING HARDWARE	CFCI	
4.14	WIRELESS MICROPHONE(S), BASE CHARGER & RECEIVER	OFCI	
4.15	ADA-COMPLIANT ASSISTIVE LISTENING KIT(S), WIRING SIGNAGE & COMPONENTS	CFCI	
4.16	WIRELESS STREAMING DEVICES, CABLES & PROGRAMMING	OFCI	
4.17	LAPTOPS, COMPUTERS, MONITORS, KEYBOARDS & MICE	OFOI	
4.18	DISK AND MEDIA PLAYERS	OFOI	
4.19	DOCUMENT CAMERAS & CABLES	OFOI	
4.20	1:1 DEVICE CHARGING CARTS/RACKS	OFOI	
4.21	USB WEBCAM	OFOI	
4.22	FIRE ALARM RELAY INTEGRATION (FOR MUTING AUDIO, BY 283176)\	CFCI	
4.23	INTERCOM INTEGRATION (FOR MUTING AUDIO)	CFCI	
4.24	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	
27 5320 EMERGENCY RESPONDER COVERAGE ENHANCEMENT SYSTEM/DAS			
5.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
5.02	PUBLIC SAFETY RADIO NETWORK RF TEST & RESULTS (IFC 510, IF PASSED, SUBMIT TO AHJ)	CFCI	
5.03	HEADEND, BATT. BACKUP, ANNUNCIATOR, SPLITTERS, ANTENNAS & CABLING, ETC. (IF REQ'D)	CFCI	
5.04	MONITORING BY FACP (BY 283176)	CFCI	
5.05	SYSTEM SUBMITTAL TO AHJ	CFCI	
5.06	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	
28 1300 ACCESS CONTROL SYSTEM			
6.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
6.02	POWER CONNECTIONS TO POWER SUPPLIES	CFCI	
6.03	CARD READERS	CFCI	
6.04	CREDENTIALS (CARDS AND/OR FOBS)	CFCI	REQ'D TYPE & QTY
6.05	PORTAL AND DOOR INTERCOM LICENSES	CFCI	
6.06	DOOR INTERCOM VIDEO STATIONS AND MASTER STATIONS	CFCI	
6.07	SPDT MAGNETIC DOOR HOLD OPENS (BY INTRUSION ALARM CONTRACTOR)	CFCI	
6.08	EMERGENCY LOCKDOWN/DURESS/DOOR RELEASE BUTTON(S)	CFCI	
6.09	LOW VOLTAGE CABLING AND TERMINATIONS	CFCI	
6.10	ACCESS CONTROL PANEL(S) & PROGRAMMING (INCL. INTEGRATION TO INTRUSION ALARM)	CFCI	
6.11	SYSTEM NETWORK SETTINGS (WHERE REQ'D): IP ADDRESSES, SUBNET MASK, GATEWAY	OFCI	MAC ADDRESSES REQUIRED FOR OWNER'S DHCP IP RESERVATIONS.
28 1600 SECURITY SYSTEM			
7.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
7.02	POWER CONNECTIONS TO POWER SUPPLIES	CFCI	
7.03	KEYPADS AND/OR DISARM CARD READERS	CFCI	
7.04	MAGNETIC DOOR CONTACTS (SPDT AT ACCESS CONTROL DOORS)	CFCI	
7.05	MOTION/GLASSBREAK/AUDIO DETECTORS	CFCI	
7.06	LOW VOLTAGE CABLING AND TERMINATIONS	CFCI	
7.07	INTRUSION DETECTION PANEL, MODULES, AND PROGRAMMING	CFCI	
7.08	SYSTEM NETWORK SETTINGS (WHERE REQ'D): IP ADDRESSES, SUBNET MASK, GATEWAY	OFCI	
7.09	MONITORING METHOD (E.G AES RADIO, CELLULAR, POTS, IP, ETC.)	CFCI	PREESTABLISHED OWNER MONITORING CONTRACT
7.10	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	
28 2000 VIDEO SURVEILLANCE SYSTEM			
8.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
8.02	CAMERAS, MOUNTS & ACCESSORIES	CFCI	
8.03	MEDIA CONVERTERS FOR OUT-OF-LENGTH CAMERAS (AT CAMERA)	CFCI	
8.04	MEDIA CONVERTERS FOR OUT-OF-LENGTH CAMERAS (AT MDF/IDF)	CFCI	
8.05	NEMA ENCLOSURE FOR EQUIP. FOR OUT-OF-LENGTH CAMERAS	CFCI	
8.06	CAMERA LICENSES, PROGRAMMING & AIMING	CFCI	
8.07	SERVER HARDWARE/SOFTWARE, LICENSES & PROGRAMMING	OFOI	CENTRAL DISTRICT SERVER, STORAGE BY DISTRICT
8.08	SYSTEM NETWORK SETTINGS (WHERE REQ'D): IP ADDRESSES, SUBNET MASK, GATEWAY	OFCI	MAC ADDRESSES REQUIRED FOR OWNER'S DHCP IP RESERVATIONS.
8.09	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	(1) EACH IN RECEPTION
8.10	PUBLIC-VIEW CCTV MONITOR AND STAFF-VIEW CCTV MONITORS	CFCI	
8.11	POE NETWORK SWITCHES	CFCI	
8.12	COPPER & FIBER PATCH CORDS AT CAMERA	CFCI	
8.13	COPPER & FIBER PATCH CORDS IN MDFS/IDFS FOR SWITCHES	CFCI	
28 4621 ADDRESSABLE FIRE-ALARM SYSTEM			
9.01	DEVICE BACKBOX & CONDUIT ROUGH-IN	CFCI	
9.02	HEADEND, BATT. BACKUP, ANNUNCIATOR, ETC. FOR A COMPLETE SYSTEM	CFCI	
9.03	MONITORING	CFCI	PREESTABLISHED OWNER MONITORING CONTRACT
9.04	MONITORING METHOD (E.G, AES RADIO, CELLULAR, POTS, ETC.)	CFCI	CONFIRM REQ.
9.05	SYSTEM TESTING/COMMISSIONING/REPORTS/O&M'S	CFCI	

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Project

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2025-001
HARBOR LEARNING CENTER
510 N I ST, Aberdeen

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E0.10

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POWER AND LIGHTING SYSTEMS ENERGY CODE NOTES:

LIGHTING CONTROLS:

1. LIGHTING SYSTEMS SHALL BE PROVIDED WITH THE FOLLOWING CONTROLS: OCCUPANT SENSOR CONTROLS; TIME SWITCH CONTROLS; MANUAL CONTROLS; LIGHT-REDUCTION CONTROLS; DAYLIGHT RESPONSIVE CONTROLS; NETWORKED LIGHTING CONTROLS; EXTERIOR LIGHTING CONTROLS.

2. OCCUPANT SENSOR CONTROLS SHALL BE INSTALLED TO CONTROL LUMINAIRES IN CLASSROOMS/LECTURE/TRAINING ROOMS, CONFERENCE/MEETING/MULTIPURPOSE ROOMS, COPY/PRINT ROOMS, LOUNGE/BREAKROOMS, ENCLOSED OFFICES, RESTROOMS, STORAGE ROOMS, SPACES 300 SQUARE FEET OR LESS THAT ARE ENCLOSED BY FLOOR-TO-CEILING HEIGHT PARTITIONS, LIBRARY STACKS, ENCLOSED FIRE RATED STAIRWAYS, AND CORRIDORS.

3. TIME SWITCH CONTROLS SHALL BE PROVIDED IN EACH AREA OF THE BUILDING THAT IS NOT PROVIDED WITH OCCUPANT SENSOR CONTROLS.

4. MANUAL CONTROLS SHALL BE PROVIDED FOR ALL LIGHTING IN A LOCATION WITH READY ACCESS TO OCCUPANTS THAT CONTROL A SINGLE ROOM OR AREA NO LARGER THAN 2,500 SQUARE FEET. MANUAL CONTROLS SHALL BE LOCATED IN SINGLE OCCUPANT STAFF RESTROOMS; MANUAL CONTROLS SHALL NOT BE REQUIRED IN GROUP/SINGLE OCCUPANT STUDENT RESTROOMS.

5. LIGHT-REDUCTION CONTROLS SHALL BE PROVIDED FOR ALL SPACES WITH THE EXCEPTION OF LUMINAIRES IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS; SPACES WITH ONLY ONE LUMINAIRE RATED LESS THAN 60W, SPACES THAT USE LESS THAN 0.45 WATTS PER SQUARE FOOT, CORRIDORS, LOBBIES, ELECTRICAL ROOMS AND MECHANICAL ROOMS WHERE PROVIDED WITH MANUAL CONTROLS.

6. SPACES SHALL BE PROVIDED WITH DAYLIGHT RESPONSIVE CONTROLS IN THE FOLLOWING SPACES: SPACES WITH A TOTAL OF MORE THAN 75 WATTS OF GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIGHT ZONES; SPACES WITH A TOTAL OF MORE THAN 150 WATTS OF GENERAL LIGHTING WITHIN COMBINED PRIMARY AND SECONDARY DAYLIGHT ZONES; SPACES WITH A TOTAL OF MORE THAN 75 WATTS OF GENERAL LIGHTING WITHIN TOPLIT DAYLIGHT ZONES.

   A. DAYLIGHT RESPONSIVE CONTROLS COMPLY WITH THE FOLLOWING:

      a. LIGHTS IN PRIMARY SIDELIT DAYLIGHT ZONES SHALL BE CONTROLLED INDEPENDENTLY OF LIGHTS IN SECONDARY SIDELIT DAYLIGHT ZONES.

      b. LIGHTS IN TOPLIT DAYLIGHT ZONES SHALL BE CONTROLLED INDEPENDENTLY OF LIGHTS IN SIDELIT DAYLIGHT ZONES.

      c. DAYLIGHT RESPONSIVE CONTROLS WITHIN EACH SPACE SHALL BE CALIBRATED WITHIN THAT SPACE.

      d. CALIBRATION MECHANISMS SHALL BE READILY ACCESSIBLE.

      e. DAYLIGHT RESPONSIVE CONTROLS SHALL DIM LIGHTS CONTINUOUSLY FROM FULL LIGHT OUTPUT TO 15 PERCENT OF FULL LIGHT OUTPUT OR LOWER.

      f. DAYLIGHT RESPONSIVE CONTROLLS SHALL BE CONFIGURED TO COMPLETELY SHUT OFF ALL CONTROLLED LIGHTS IN THAT ZONE.

      g. DAYLIGHT RESPONSIVE CONTROLS SHALL CONTINUE TO ADJUST LUMINAIRE LIGHT LEVELS IN RESPONSE TO AVAILABLE DAYLIGHT BUT NOT INCREASE THE SPECIFIED UNOCCUPIED SETPOINT ESTABLISHED BY OCCUPANCY SENSOR CONTROLS.

      h. LIGHTS IN SIDELIT DAYLIGHT ZONES FACING DIFFERENT CARDINAL ORIENTATIONS SHALL BE CONTROLLED INDEPENDENTLY OF EACH OTHER.

      i. TIME-DELAY CIRCUITS SHALL BE INCORPORATED TO PREVENT CYCLING OF LIGHT LEVEL CHANGES OF LESS THAN THREE MINUTES.

      j. THE MAXIMUM AREA A SINGLE DAYLIGHT RESPONSIVE CONTROL DEVICE SERVES SHALL NOT EXCEED 2,500 SQUARE FEET.

      k. OCCUPANT OVERRIDE CAPABILITY OF DAYLIGHT DIMMING CONTROLS IS NOT PERMITTED, OTHER THAN REDUCING LIGHT OUTPUT FROM LEVEL ESTABLISHED BY DAYLIGHTING CONTROLS.

7. LUMINAIRES FOR DISPLAY/ACCENT, DISPLAY CASES, SUPPLEMENTAL TASK LIGHTING (INCLUDING UNDER-SHELF OR UNDER-COUNTER) SHALL BE PROVIDED WITH OCCUPANCY SENSOR CONTROLS. LUMINAIRES SERVING EXIT ACCESS AND MEANS OF EGRESS SHALL BE CONTROLLED BY A COMBINATION OF UL924 EMERGENCY RELAYS AND OCCUPANCY SENSORS, OR SINGAL FROM ANOTHER BUILDING CONTROL SYSTEM THAT AUTOMATICALLY SHUTS OFF THE LIGHTING WHEN THE AREAS SERVED BY THAT ILLUMINATION ARE UNOCCUPIED.

8. THE MAXIMUM LIGHTING POWER CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL DEVICE SHALL NOT EXCEED A 20 AMPERE CIRCUIT LOADED TO MORE THAN 80 PERCENT. A MASTER CONTROL MAY BE INSTALLED PROVIDED THE INDIVIDUAL SWITCHES RETAIN THEIR CAPABILITY TO FUNCTION INDEPENDENTLY.

9. EXTERIOR LIGHTING SYSTEMS SHALL INCLUDE DAYLIGHT SHUTOFF; BUILDING FACADE AND LANDSCAPE LIGHTING AUTOMATIC SHUTOFF FOR A MINIMUM OF 6 HOURS PER NIGHT; TIME SWITCH CONTROLS.

INTERIOR LIGHTING POWER REQUIREMENTS:

1. THE TOTAL CONNECTED INTERIOR LIGHTING POWER ASSOCIATED WITH THE FOLLOWING LIGHTING EQUIPMENT AND APPLICATIONS IS NOT INCLUDED IN CALCULATING TOTAL CONNECTED LIGHTING POWER: EMERGENCY LIGHTING AUTOMATICALLY OFF DURING NORMAL BUILDING OPERATION; LIGHTING IN SPACES SPECIFICALLY DESIGNED FOR USE BY OCCUPANTS WITH SPECIAL LIGHTING NEEDS INCLUDING THOSE WITH VISUAL IMPAIRMENT AND OTHER MEDICAL AND AGE-RELATED ISSUES; LIGHTING INTEGRAL TO EQUIPMENT OR INSTRUMENTATION AND INSTALLED BY THE MANUFACTURER; LIGHTING APPROVED BECAUSE OF SAFETY CONSIDERATIONS; FURNITURE MOUNTED SUPPLEMENTAL TASK LIGHTING THAT IS CONTROLLED BY AUTOMATIC SHUTOFF; EXIT SIGNS.

2. THE TOTAL INTERIOR LIGHTING POWER ALLOWANCE (WATTS) IS DETERMINED USING THE BUILDING AREA METHOD. THE TOTAL INTERIOR LIGHTING POWER ALLOWANCE IS CALCULATED PER THE SEC LIGHTING COMPLIANCE SUMMARY.

EXTERIOR LIGHTING POWER REQUIREMENTS:

1. ALL EXTERIOR BUILDING GROUNDS LUMINAIRES THAT OPERATE AT GREATER THAN 25 WATTS SHALL HAVE A MINIMUM EFFICACY OF 100 LUMENS PER WATT.

2. THE TOTAL EXTERIOR CONNECTED LIGHTING POWER SHALL BE THE TOTAL MAXIMUM RATED WATTAGE OF ALL EXTERIOR LIGHTING THAT IS POWERED THROUGH THE ENERGY SERVICE FOR THE BUILDING EXCEPT FOR SAFETY LIGHTING; EMERGENCY LIGHTING AUTOMATICALLY OFF DURING NORMAL BUSINESS HOURS; EXIT SIGNS; SPECIALIZED SIGNAL, DIRECTIONAL, AND MARKER LIGHTING ASSOCIATED WITH TRANSPORTATION; ADVERTISING SIGNAGE OR DIRECTIONAL SIGNAGE; INTEGRAL TO EQUIPMENT OR INSTRUMENTATION AND INSTALLED BY ITS MANUFACTURER; ATHLETIC PLAYING AREAS; TEMPORARY LIGHTING; LIGHTING INTEGRATED WITHIN OR USED TO HIGHLIGHT FEATURES OF ART, PUBLIC MONUMENTS, AND THE NATIONAL FLAG.

3. THE EXTERIOR LIGHTING POWER ALLOWANCE (WATTS) IS CALCULATED PER THE SEC LIGHTING COMPLIANCE SUMMARY.

ELECTRICAL TRANSFORMERS:

1. LOW-VOLTAGE DRY-TYPE DISTRIBUTION ELECTRIC TRANSFORMERS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF THE SEC AS TESTED AND RATED IN ACCORDANCE WITH THE TEST PROCEDURE LISTED IN DOE 10 CFR 431 WITH THE EXCEPTION OF THE FOLLOWING TYPES: DRIVE, RECTIFIER, AUTO, UPS, IMPEDANCE, REGULATING, SEALED AND NONVENTILATING, MACHINE TOOL, WELDING, GROUNDING, AND TESTING TRANSFORMERS.

AUTOMATIC RECEPTACLE CONTROL:

1. AT LEAST 50 PERCENT OF ALL 125V, 15- AND 20-AMP RECEPTACLES INSTALLED IN ENCLOSED OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS AND MODULE OFFICE WORKSTATION SYSTEMS SHALL BE AUTOMATICALLY CONTROLLED.

2. AUTOMATIC RECEPTACLE CONTROL SHALL COMPLY WITH PROVIDING A CONTROLLED RECEPTACLE SHALL BE LOCATED WITHIN 12 INCHES OF EACH UNCONTROLLED RECEPTACLE. CONTROLLED RECEPTACLES ARE CONTROLLED VIA AN OCCUPANT SENSOR CONTROL THAT SHALL TURN OFF RECEPTACLES WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING A SPACE. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70 AND ARE UNIFORMLY DISTRIBUTED THROUGHOUT THE SPACE. PLUG-IN DEVICES ARE NOT ALLOWED.

VOLTAGE DROP:

1. THE TOTAL VOLTAGE DROP ACROSS THE COMBINATION OF CUSTOMER-OWNED SERVICE CONDUCTORS, FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS SHALL NOT EXCEED FIVE PERCENT.

DOCUMENTATION AND SYSTEM SPECIFIC REQUIREMENT TO SUPPORT COMMISSIONING

1. SCOPE OF ELECTRICAL SYSTEM COMMISSIONING: A BUILDING COMMISSIONING PROCESS LED BY A CERTIFIED COMMISSIONING PROFESSIONAL AND FUNCTIONAL TESTING REQUIREMENTS SHALL BE COMPLETED FOR CONTROLLED RECEPTACLE AND LIGHTING CONTROL SYSTEMS AND ENERGY METERING SYSTEMS.

2. SCOPE OF CONTROLLED RECEPTACLE AND LIGHTING CONTROL SYSTEMS SHALL BE COMMISSIONED AND TESTED IN ACCORDANCE WITH SEC.

3. COMMISSIONING REQUIREMENTS PER SEC IS REQUIRED FOR ALL APPLICABLE ENERGY METERING SYSTEMS INCLUDING TESTING PER SEC FOR ALL ENERGY METERING EQUIPMENT AND CONTROLS REQUIRED BY SEC.

PROJECT CLOSEOUT AND DOCUMENTATION

1. DOCUMENTATION AND PROJECT CLOSE OUT SUBMITTAL REQUIREMENTS: PROJECT CLOSE OUT DOCUMENTATION AND TRAINING OF BUILDING OPERATIONS PERSONNEL IS REQUIRED FOR ALL ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS GOVERNED BY SEC. CLOSEOUT DOCUMENTATION SHALL INCLUDE RECORD DOCUMENTS, O&M MANUALS, SEC COMPLIANCE FORMS AND CALCULATIONS.

RENEWABLE ENERGY SYSTEMS ENERGY CODE NOTES:

ON-SITE RENEWABLE ENERGY:

1. C411.1 EACH NEW BUILDING SHALL INCLUDE A RENEWABLE ENERGY GENERATION SYSTEM CONSISTING OF NOT LESS THAT 0.5 W/SQUARE FT MULTIPLIED BY THE SUM OF THE GROSS CONDITIONED FLOOR AREA.

2. [C411.1.1 [BUILDING ACHIEVES ADDITIONAL 18 EFFICIENCY PACKAGE CREDITS FROM TABLE C406.2(1)] [BUILDING ACHIEVES REDUCED ADDITIONAL EFFICIENCY PACKAGE CREDITS FROM TABLE C406.2(1) BASED ON PRORATED FRACTION OF RENEWABLE CAPACITY THAT IS INSTALLED ON-SITE.]]

SOLAR READINESS:

1. C411.3 A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING OR ON ANOTHER STRUCTURE ELSEWHERE ON THE SITE.

2. C411.3.1 THE MINIMUM AREA OF THE SOLAR ZONE SHALL BE DETERMINED BY: 40 PERCENT OF THE ROOF AREA, CALCULATED AS THE HORIZONTALLY-PROJECTED GROSS ROOF AREA LESS THE AREA COVERED BY SKYLIGHTS, OCCUPIED ROOF DECKS, MECHANICAL EQUIPMENT AND SERVICE CLEARANCES, AND PLANTED AREAS.

3. C411.3.2 THE SOLAR ZONE IS PERMITTED TO BE COMPRISED OF SEPARATED SUB-ZONES. EACH SUB-ZONE SHALL BE AT LEAST 5 FEET WIDE IN THE NARROWEST DIMENSION.

4. C411.3.3 THE SOLAR ZONE SHALL BE FREE OF PIPES, VENTS, DUCTS, HVAC EQUIPMENT, SKYLIGHTS, AND OTHER OBSTRUCTIONS, EXCEPT THOSE SERVING PHOTOVOLTAIC SYSTEMS WITHIN THE SOLAR ZONE. THE SOLAR ZONE IS PERMITTED TO BE LOCATED ABOVE ANY SUCH OBSTRUCTIONS, PROVIDED THAT THE RACKING FOR SUPPORT OF THE FUTURE SYSTEM IS INSTALLED AT THE TIME OF CONSTRUCTION, THE ELEVATED SOLAR ZONE DOES NOT SHADE OTHER PORTIONS OF THE SOLAR ZONE, AND ITS HEIGHT IS PERMITTED BY THE IBC. PHOTOVOLTAIC OR SOLAR WATER HEATING SYSTEMS ARE PERMITTED TO BE INSTALLED WITHIN THE SOLAR ZONE.

5. C411.3.4 THE SOLAR ZONE SHALL BE SET BACK FROM ANY EXISTING OR NEW OBJECT ON THE BUILDING OR SITE THAT IS LOCATED SOUTH, EAST, OR WEST OF THE SOLAR ZONE A DISTANCE AT LEAST TWO TIMES THE OBJECTS HEIGHT ABOVE THE NEAREST POINT ON THE ROOF SURFACE. SUCH OBJECTS INCLUDE BUT ARE NOT LIMITED TO TALLER PORTIONS OF THE BUILDING ITSELF, PARAPETS, CHIMNEYS, ANTENNAS, SIGNAGE, ROOFTOP EQUIPMENT, TREES, AND ROOF PLANTINGS. NO PORTION OF THE SOLAR ZONE SHALL BE LOCATED ON A ROOF SLOPE GREATER THAN 2:12 THAT FACES WITHIN 45 DEGREES OF TRUE NORTH.

6. C411.3.5 AREA CONTIGUOUS TO THE SOLAR ZONE SHALL PROVIDE ACCESS PATHWAYS AND PROVISIONS FOR EMERGENCY SMOKE VENTILATION AS REQUIRED BY THE IFC AND LOCAL AHJ.

7. C411.3.6 THE AS-DESIGNED DEAD LOAD AND LIVE LOAD FOR THE SOLAR ZONE SHALL BE CLEARLY MARKED ON THE RECORD DRAWINGS AND SHALL ACCOMMODATE FUTURE PHOTOVOLTAIC SYSTEM ARRAYS AT AN ASSUMED DEAD LOAD OF 4 POUNDS PER SQUARE FOOT IN ADDITION TO OTHER REQUIRED LIVE AND DEAD LOADS. A LOCATION FOR FUTURE INVERTERS SHALL BE DESIGNATED PER THE DRAWINGS AND SHALL ACCOMMODATE AN ASSUMED DEAD LOAD OF 175 POUNDS PER SQUARE FOOT. WHERE PHOTOVOLTAIC SYSTEMS ARE INSTALLED IN THE SOLAR ZONE, STRUCTURAL ANALYSIS SHALL BE BASED UPON CALCULATED LOADS, NOT ASSUMED LOADS.

8. C411.3.7 INTERCONNECTION OF THE FUTURE PHOTOVOLTAIC SYSTEM SHALL BE PROVIDED FOR AT THE MAIN SERVICE PANEL AT THE END OF THE BUS OPPOSITE THE SERVICE DISCONNECTING MEANS BY [A SPACE FOR THE MOUNTING OF A FUTURE OVERCURRENT DEVICE, SIZED TO ACCOMMODATE THE LARGEST STANDARD RATED OVERCURRENT DEVICE THAT IS LESS THAN 20 PERCENT OF THE BUS RATING.] [LUGS SIZED TO ACCOMMODATE CONDUCTORS WITH AN AMPACITY OF AT LEAST 20 PERCENT OF THE BUS RATING, TO ENABLE THE MOUNTING OF AN EXTERNAL OVERCURRENT DEVICE FOR INTERCONNECTION.] THE ELECTRICAL CONSTRUCTION DOCUMENTS INDICATE THE SOLAR ZONE BOUNDARIES AND ACCESS PATHWAYS; LOCATION FOR FUTURE INVERTERS AND METERING EQUIPMENT; AND ROUTE FOR FUTURE WIRING BETWEEN THE PHOTOVOLTAIC PANELS AND THE INVERTER, AND BETWEEN THE INVERTER AND THE MAIN SERVICE PANEL.

DOCUMENTATION AND SYSTEM SPECIFIC REQUIREMENT TO SUPPORT COMMISSIONING:

1. PHOTOVOLTAIC SYSTEMS AND EQUIPMENT SHALL BE COMMISSIONED.

PROJECT CLOSEOUT AND DOCUMENTATION:

1. C103.6 DOCUMENTATION AND PROJECT CLOSE OUT SUBMITTAL REQUIREMENTS: PROJECT CLOSE OUT DOCUMENTATION AND TRAINING OF BUILDING OPERATIONS PERSONNEL IS REQUIRED FOR ALL SERVICE WATER HEATING COMPONENTS, EQUIPMENT AND SYSTEMS GOVERNED BY WSEC. CLOSEOUT DOCUMENTATION SHALL INCLUDE RECORD DOCUMENTS, O&M MANUALS, AND PHOTOVOLTAIC CALCULATIONS.

ENERGY MANAGEMENT SYSTEMS ENERGY CODE NOTES:

GENERAL:

1. C409.1 ALL NEW BUILDINGS AND ADDITIONS SHALL HAVE THE CAPABILITY OF METERING ALL SOURCE ENERGY USAGE IN ADDITION TO TO ON-SITE RENEWABLE ENERGY AND ELECTRIC VEHICLE CHARGING.

ENERGY SOURCE METERING:

1. C409.2 BUILDINGS SHALL HAVE A METER AT EACH ENERGY SOURCE. METERS SHALL COLLECT DATA FOR THE WHOLE BUILDING OR FOR EACH SEPARATELY METERED PORTION OF THE BUILDING.

2. C409.2.1 INCLUDE ALL ELECTRICAL ENERGY SUPPLIED TO THE BUILDING AND ITS ASSOCIATED SITE, INCLUDING SITE LIGHTING, PARKING, RECREATIONAL FACILITIES, AND OTHER AREAS THAT SERVE THE BUILDING AND ITS OCCUPANTS.

3. C409.2.4 INCLUDE ALL NET ENERGY GENERATED FROM ON-SITE SOLAR, WIND, GEOTHERMAL, TIDAL, OR OTHER NATURAL SOURCES.

END-USE METERING:

1. C409.3 METERS SHALL BE PROVIDED TO COLLECT ENERGY USE DATA FOR EACH END-USE CATEGORY. THESE METERS SHALL COLLECT DATA FOR THE WHOEL BUILDING OR FOR EACH SEPARATELY METERED PORTION OF THE BUILDING. NOT MORE THAN 10 PERCENT OF THE TOTAL CONNECTED LOAD OF ANY OF THE END-USE METERING CATEGORIES IS PERMITTED TO BE EXCLUDED FROM THAT END-USE DATA COLLECTION. NOT MORE THAN 10 PERCENT OF THE TOTAL CONNECTED LOAD OF ANY OF THE END-USE METERING CATEGORIES IS PERMITTED TO CONSIST OF LOADS NOT PART OF THAT CATEGORY MULTIPLE METERS MAY BE USED FOR ANY END-USE CATEGORY, PROVIDED THAT THE DATA ACQUISITION SYSTEM TOTALS ALL OF THE ENERGY USED BY THAT CATEGORY EXCEPT FOR THE FOLLOWING EXEMPTIONS. EXEMPTION 1 - SEPARATE METERING IS NOT REQUIRED FOR FIRE PUMPS, STAIRWELL PRESSURIZATION FANS, OR OTHER LIFE SAFETY SYSTEMS THAT OPERATE ONLY DURING TESTING OR EMERGENCY.

2. C409.3.1 HVAC SYSTEM ENERGY USE SHALL INCLUDE ALL ENERGY INCLUDING ELECTRICAL THAT IS USED BY BOILERS, CHILLERS, PUMPS, FANS, AND OTHER EQUIPMENT USED TO PROVIDE SPACE HEATING, SPACE COOLING, DEHUMIDIFICATION AND VENTILATION TO THE BUILDING, BUT NOT INCLUDING ENERGY THAT SERVES PROCESS LOADS, SERVICE WATER HEATING OR MISCELLANEOUS LOADS. MULTIPLE HVAC ENERGY SOURCES SUCH AS GAS, ELECTRIC, AND STEAM ARE NOT REQUIRED TO BE SUMMED TOGETHER.

3. C409.3.3 LIGHTING SYSTEM ENERGY USE SHALL INCLUDE ALL ENERGY USED BY INTERIOR AND EXTERIOR LIGHTING, INCLUDING LIGHTING IN PARKING STRUCTURES AND LOTS, BUT NOT INCLUDING PLUG-IN TASK LIGHTING.

4. C409.3.4 ELECTRIC VEHICLE CHARGING ENERGY USE SHALL INCLUDE ALL ENERGY USED FOR ELECTRICAL VEHICLE CHARGING.

5. C409.3.5 PLUG LOAD SYSTEM ENERGY USE SHALL INCLUDE ALL ENERGY USED BY APPLIANCES, COMPUTERS, PLUG-IN TASK LIGHTING, AND OTHER EQUIPMENT OR EQUIPMENT COVERED BY OTHER END-USE METERING CATEGORIES.

6. C409.3.6 PROCESS LOAD SYSTEM ENERGY USE SHALL INCLUDE ALL ENERGY USED BY ANY NON-BUILDING PROCESS LOAD, INCLUDING BUT NOT LIMITED TO REFRIGERATION AND COOKING EQUIPMENT, LAUNDRY EQUIPMENT, INDUSTRIAL EQUIPMENT, AND STAGE LIGHTING.

MEASUREMENT DEVICES, DATA ACQUISITION AND ENERGY DISPLAY:

1. C409.4.1 METERS AND OTHER MEASUREMENT DEVICES REQUIRED SHALL BE DIGITAL-TYPE METERS AND CONFIGURED TO AUTOMATICALLY COMMUNICATE ENERGY DATA TO A DATA ACQUISITION SYSTEM AND ENERGY DISPLAY. ALL REQUIRED METERING SYSTEMS AND EQUIPMENT SHALL PROVIDE DATA THAT IS FULLY INTEGRATED INTO THE DATA ACQUISITION AND DISPLAY SYSTEM. ELECTRICAL METERS SHALL BE CONFIGURED TO COMMUNICATE DATA TO THE DATA ACQUISITION SYSTEM AND ENERGY DISPLAY FOR BOTH CONSUMPTION (KWH) AND CONSUMPTION RATE (KW).

2. C409.2.2 THE DATA ACQUISITION SYSTEM SHALL STORE THE DATA FROM THE REQUIRED METERS AND OTHER SENSING DEVICES IN A SINGLE DATABASE FOR A MINIMUM OF 36 MONTHS. FOR EACH ENERGY SUPPLY AND END USE CATEGORY, IT SHALL PROVIDE ENERGY CONSUMPTION RATE LOGGED IN ONE-HOUR OR LESS INTERVALS AND ENERGY CONSUMPTION RATE LOGGED IN 10-MINUTE OR LESS INTERVALS. DATA FROM THE DATA ACQUISITION SYSTEM SHALL BE VIEWABLE VIA THE ENERGY DISPLAY.

3. C409.2.3 FOR EACH BUILDING, EITHER A SINGLE VISIBLE DISPLAY IN A LOCATION WITH READY ACCESS, OR A SINGLE WEB PAGE OR OTHER ELECTRONIC DOCUMENT AVAILABLE FOR ACCESS TO BUILDING OPERATION AND MANAGEMENT PERSONNEL OR TO A THIRD-PARTY ENERGY DATA ANALYSIS SERVICE SHALL BE PROVIDED INT EH BUILDING; FOR METERING DATA ACQUISITION SYSTEM AND ENERGY DISPLAYS MONITORED BY A THIRD-PARTY ENERGY DATA ANALYSIS SERVICE, BUILDING OPERATION AND MANAGEMENT PERSONNEL SHALL RETAIN ACCESS TO THE METERING DATA ACQUISITION SYSTEM AND ENERGY DISPLAY. THE DISPLAY SHALL NUMERICALLY PROVIDE THE CURRENT ENERGY CONSUMPTION RATE AND ENERGY CONSUMPTION TOTAL FOR EACH WHOLE BUILDING ENERGY SOURCE AND EACH END USE CATEGORY. THE ENERGY DISPLAY SHALL ALSO GRAPHICALLY AND NUMERICALLY DISPLAY LOGGED DATA FROM THE DATA ACQUISITION SYSTEM FOR ENERGY CONSUMPTION FOR EACH WHOLE BUILDING ENERGY SOURCE AND ENERGY CONSUMPTION RATE FOR WHOLE BUILDING ELECTRICAL USE AND EACH END USE CATEGORY FOR ANY SELECTED DAY, WEEK, MONTH, OR YEAR.

DOCUMENTATION AND SYSTEM SPECIFIC REQUIREMENT TO SUPPORT COMMISSIONING:

1. C409.4 ENERGY METERING AND ENERGY CONSUMPTION MANAGEMENT SYSTEMS SHALL BE COMMISSIONED.

PROJECT CLOSEOUT AND DOCUMENTATION:

1. C103.6 DOCUMENTATION AND PROJECT CLOSE OUT SUBMITTAL REQUIREMENTS: PROJECT CLOSE OUT DOCUMENTATION AND TRAINING OF BUILDING OPERATIONS PERSONNEL IS REQUIRED FOR ALL ENERGY METERING AND ENERGY CONSUMPTION MANAGEMENT SYSTEMS GOVERNED BY WSEC. CLOSEOUT DOCUMENTATION SHALL INCLUDE RECORD DOCUMENTS AND O&M MANUALS.

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Sheet Title
ENERGY CODE NOTES

E0.11

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WSEC 406.2(1) - EFFICIENCY PACKAGE CREDITS

NO	CODE SECTION	SECTION	OCCUPANCY GROUP		NOTES
			GROUP E		
			POINTS AVAILABLE	POINTS ACHIEVED	
9	REDUCED LIGHTING POWER: OPTION 1	C406.2.3.1	16		
10	REDUCED LIGHTING POWER: OPTION 2	C406.2.3.2	32		PROJECTS USING THIS ITEM MAY NOT USE ITEM 9.
13	ENHANCED LIGHTING CONTROLS	C406.2.4.2	6		
14	RENEWABLE ENERGY	C406.2.5	13		

C411 SOLAR READINESS

C411.2 MINIMUM AREA	
ROOF AREA (SQFT)	26,214
COMPLIANCE METHOD	40% OF ROOF AREA
40% OF ROOF AREA	0.4
TOTAL AREA (SQFT)	10,485
ELECTRICAL SERVICE SIZE (A)	1600
SERVICE VOLTAGE (V)	480Y/277V
ELECTRICAL SERVICE SIZE (W)	1,330,215
20% OF ELECTRICAL SERVICE SIZE (W)	266,043
TOTAL AREA (SQFT @ 10 W/SQFT)	26,604
TOTAL SOLAR READINESS AREA (SQFT):	10,485

C412 ON-SITE RENEWABLE ENERGY

BASED ON 0.5W/SQFT GROSS CONDITIONED FLOOR AREA (C412.1 0.25 W/SF + C406.5 0.25 W/SF)	
CONDITIONED FLOOR AREA (SQFT)	46,007
0.5 W/SQFT	0.5
TOTAL GENERATION (W)	23,004
TOTAL # OF SOLAR PANELS	45
TOTAL PV ARRAY GENERATION (W DC)	26,100

SOLAR PANELS

PANEL NAME	SILFAB
LENGTH (IN)	82.6
WIDTH (IN)	44.6
AREA (SQFT)	25.58
WEIGHT (LBS)	56.9
TOTAL PSF	2.2
TILT	SINGLE
WATTAGE	580
ROOF TYPE	SLOPED

WAC 51-50-0429 TABLE 429.2 ELECTRIC VEHICLE CHARGING INFRASTRUCTURE

OCCUPANCY TYPE	GROUP E
# OF STAFF PARKING SPACES	30
# OF ACCESSIBLE PARKING SPACES	6
EV CHARGING STATIONS (10%)	3
EV-READY PARKING SPACES (10%)	3
EV-CAPABLE PARKING SPACES (10%)	3
# OF EV CHARGING STATIONS	3
# OF EV-READY PARKING SPACES	3
# OF EV-CAPABLE PARKING SPACES	3
# OF ACCESSIBLE EV CHARGING PARKING SPACES	2

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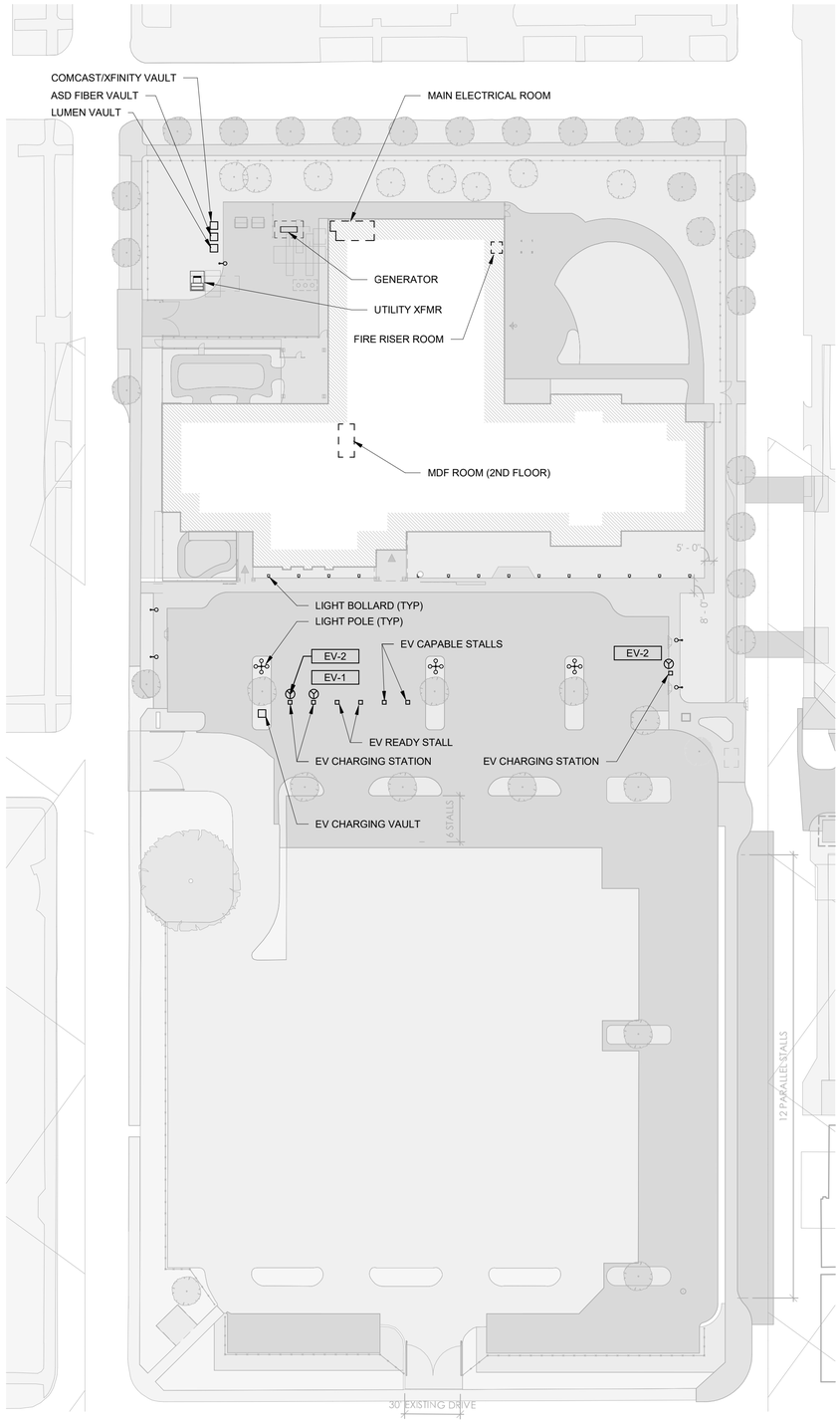
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ENERGY CODE SCHEDULES

E0.12
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1 OVERALL SITE PLAN
1" = 40'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT AND CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
2. PROTECT AND MAINTAIN EXISTING UNDERGROUND UTILITIES TO REMAIN DURING CONSTRUCTION.
3. EQUIPMENT AND CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPING PRIOR TO INSTALLATION.
4. PROVIDE PVC COATED RIGID STEEL SWEEPS FOR ALL UNDERGROUND CONDUIT. PVC BENDS/SWEEPS ARE NOT PERMITTED.
5. PROVIDE HANDHOLES AS REQUIRED FOR ALL POWER AND LIGHTING CIRCUITS. SPLICE CONDUCTORS IN HANDHOLES.
6. PROVIDE ADDITIONAL PULL BOXES FOR AS REQUIRED TO MINIMIZE TOTAL BEND RADIUS TO 270 DEGREES FOR POWER CONDUCTORS AND 180 DEGREES FOR LOW VOLTAGE CABLING. SIZE PULL BOXES PER NEC.
7. COORDINATE WITH UTILITY COMPANIES FOR CONNECTING SERVICES.
8. REFER TO SHEET E9.1 FOR LIGHT POLE BASE DETAILS.
9. THE SIZE, LOCATION, AND DEPTH OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN AND ASSOCIATED DETAILS ARE BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY AT THE TIME OF DESIGN. VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IN THE WORK AREA BEFORE DIGGING AND SHALL TAKE NECESSARY MEASURES TO PROTECT PERSONNEL, AND THE PUBLIC FROM HARM DUE TO CONTACT WITH UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THESE PLANS. CONTACT AN UNDERGROUND UTILITIES LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO DIGGING TO SPOT UTILITIES. NOTIFY THE ARCHITECT, ENGINEER, AND OWNER OF ALL INCORRECTLY CHARTED SITE UTILITIES ENCOUNTERED DURING THE COURSE OF WORK.
10. ALL UNDERGROUND CONDUITS SHALL BE MINIMUM 3/4"C. HOMERUNS SHALL BE MINIMUM 1"C. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS NOTED OR APPROVED BY THE ENGINEER. ALL UNDERGROUND SWEEPS SHALL BE PVC COATED RIGID STEEL. ALL UNDERGROUND WIRING SHALL BE MINIMUM #10, UNLESS OTHERWISE NOTED.
11. REFER TO UTILITY SITE-SPECIFIC SHOP DRAWINGS FOR TRENCH ROUTING, CONDUIT SIZES, AND QUANTITIES FOR INCOMING ELECTRIC, PHONE, DATA, AND CABLE TV SERVICES.
12. UNLESS OTHERWISE DIRECTED BY THE UTILITY COMPANY, PROVIDE MINIMUM 24" COMPACTED COVER OVER UTILITY-OWNED SECONDARY SERVICE ENTRANCE CABLES. PROVIDE MINIMUM 36" COVER OVER UTILITY-OWNED PRIMARY CABLES. UNLESS DIRECTED OTHERWISE BY THE SERVING UTILITY, ALL UNDERGROUND CROSSINGS SHALL BE INSTALLED SO THAT THERE IS AT LEAST 12" CLEAR VERTICAL SEPARATION BETWEEN THE ELECTRIC UTILITY'S UNDERGROUND FACILITIES AND THE UNDERGROUND CONSTRUCTION BEING CROSSED.
13. WHERE UNDERGROUND ELECTRIC UTILITY AND NATURAL-GAS UTILITY FACILITIES ARE IN SEPARATE PARALLEL TRENCHES, A MINIMUM 24" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE ELECTRIC AND NATURAL-GAS FACILITIES. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS PRIOR TO INSTALLATION.
14. WHERE TELEPHONE AND/OR CATV CABLES ARE CO-LOCATED IN THE SAME TRENCH WITH ELECTRIC UTILITY-OWNED FACILITIES, THE TELEPHONE AND CATV LINES SHALL BE LOCATED ABOVE THE ELECTRIC LINES AND SHALL BE INSTALLED WITH MINIMUM 6" CLEAR VERTICAL SEPARATION. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS PRIOR TO INSTALLATION.
15. WET UTILITIES SHALL NOT BE RUN IN THE SAME TRENCH AS ELECTRIC, TELEPHONE, OR CATV UTILITIES. WHERE ELECTRIC TELEPHONE, OR CATV CROSS UNDERGROUND WET UTILITY LINES, A MINIMUM 24" VERTICAL SEPARATION SHALL BE MAINTAINED WITH THE WET UTILITY LINES PASSING BELOW. VERIFY SEPARATION DISTANCES WITH THE LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS PRIOR TO INSTALLATION.
16. TRENCH BOTTOMS SHALL BE SMOOTH, FLAT, AND WITHOUT SURFACE IRREGULARITIES. WHEN NECESSARY, PROVIDE SUFFICIENT QUANTITIES OF BEDDING MATERIAL TO PROVIDE THE REQUIRED SURFACE. BEDDING MATERIAL SHALL BE AS SPECIFIED BY THE UTILITY COMPANY.
17. WHEN CHANGING ELEVATIONS IN STRAIGHT CONDUIT RUNS, THE ELEVATION OF THE TRENCH BOTTOM SHALL NOT EXCEED 1'-0" RISE IN 12'-0" HORIZONTAL RUN.
18. PROVIDE ALL TRENCHING AND BACKFILL, EQUIPMENT PADS, AND FOUNDATIONS FOR UTILITY OWNED EQUIPMENT PER UTILITY STANDARDS AND SPECIFICATIONS.
19. PROVIDE ALL TRENCHING AND BACKFILL, EQUIPMENT PADS, AND FOUNDATIONS FOR CUSTOMER OWNED EQUIPMENT. HOUSEKEEPING EQUIPMENT PADS SHALL BE MINIMUM 4" THICK AND EXTEND MINIMUM 4" AROUND FLOOR MOUNTED ELECTRICAL EQUIPMENT.
20. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.
21. PROVIDE EXTERIOR BUILDING MOUNTED PHOTOCELL AND ROUTE EXTERIOR LIGHTING CIRCUITS THROUGH PHOTOCELL FOR AUTOMATIC CONTROL OF EXTERIOR LIGHTS. LOCATE PHOTOCELL PER MANUFACTURER RECOMMENDATIONS.

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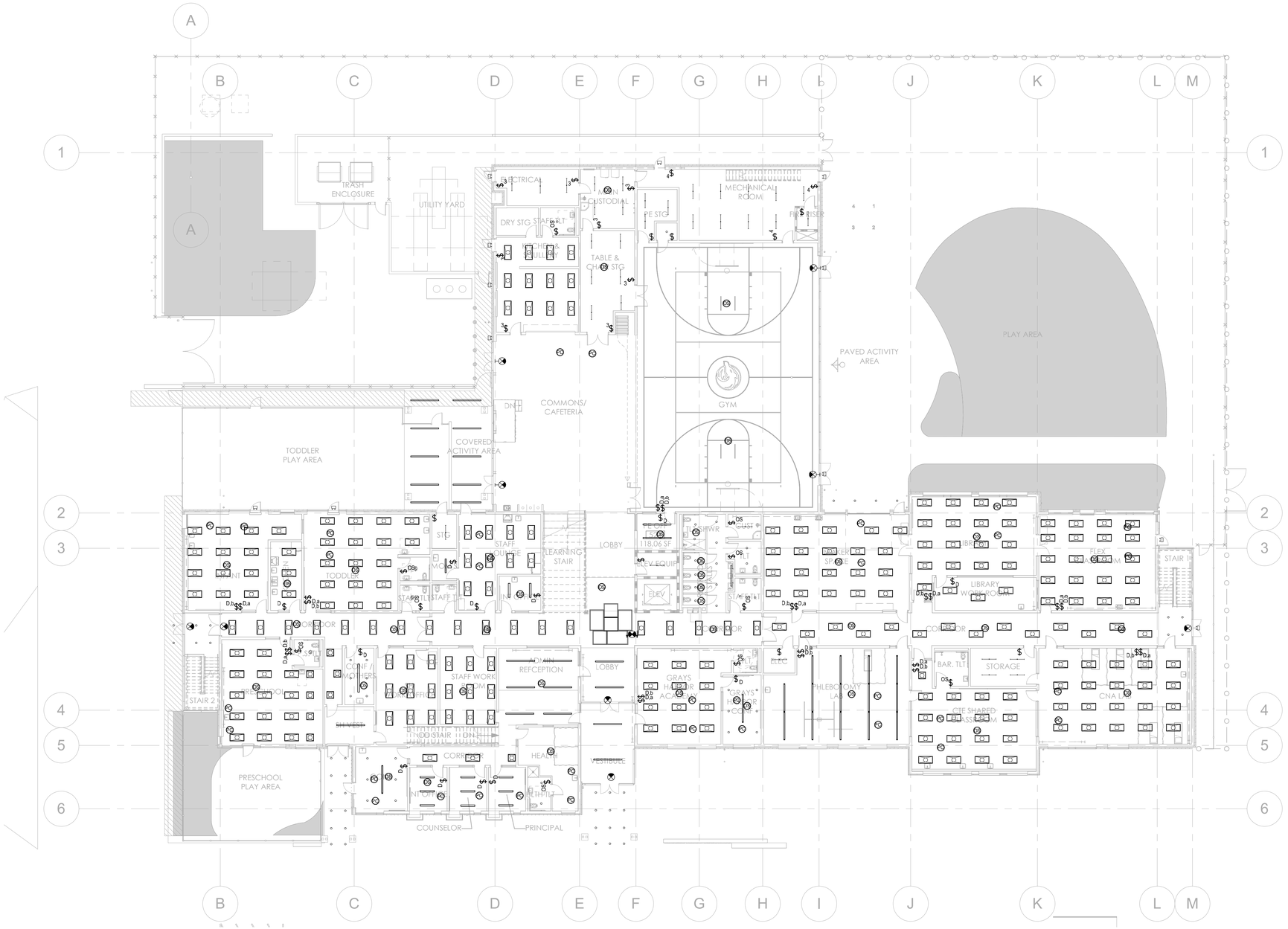
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ELECTRICAL SITE PLAN

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1 FIRST FLOOR LIGHTING PLAN
1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. COORDINATE LOCATION OF LUMINAIRES IN MECHANICAL SPACES WITH DUCTWORK, PIPING, AND EQUIPMENT PRIOR TO INSTALLATION.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR FIXTURE ELEVATIONS AND LOCATIONS.
5. PROVIDE UNSWITCHED CIRCUIT TO EXIT SIGNS.
6. PROVIDE 10' OF EXTRA CONTROL WIRING FOR ALL CEILING MOUNTED LIGHTING CONTROLS (I.E. OCCUPANCY SENSORS, DAYLIGHT SENSORS, ETC.) FOR FIELD REQUIRED ADJUSTMENTS AS NECESSARY.
7. REFER TO SCHEDULES ON SHEETS E0.0X TO E0.0X FOR ADDITIONAL INFORMATION.
8. AN AVERAGE OF AT LEAST 1.0 FOOTCANDLES SHALL BE PROVIDED FOR EMERGENCY EGRESS LIGHTING.
9. PROVIDE UL924 DEVICES FOR ALL EMERGENCY FIXTURES TO MAINTAIN EMERGENCY FUNCTION IN ACCORDANCE WITH NEC 700.12(F) FOR A COMPLETE AND OPERABLE SYSTEM.
10. FINAL QUANTITIES AND LOCATIONS OF EMERGENCY EXIT SIGNS ARE TO BE DETERMINED IN THE FIELD WITH CITY AND STATE INSPECTORS AND THE ARCHITECT. THE CONTRACTOR SHALL PROVIDE A UNIT PRICE IN THEIR BID FOR ADDITIONAL EXIT SIGNS THAT MAY BE REQUIRED BY THE LOCAL JURISDICTION THAT ARE REQUIRED BEYOND WHAT IS SHOWN IN THE CONTRACT DOCUMENTS.
11. ALL CONDUITS SHALL BE PROVIDED WITH A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 25.122.
12. PROVIDE A SEPARATE NEUTRAL FOR ALL 120V AND 277V LIGHTING BRANCH CIRCUITS. COMMON NEUTRALS ARE NOT PERMITTED.
13. PROVIDE A NEUTRAL CONDUCTOR AT ALL LIGHT SWITCHES PER NEC 404.2.
14. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
15. PRIOR TO ROUGH-IN, ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER AND ARCHITECT TO DETERMINE IF ANY CHANGES TO EQUIPMENT FURNISHED BY OTHERS HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.
16. ALL 120V AND 277V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT PERMITTED (EXCEPTION: MULTIWIRE BRANCH CIRCUITS).
17. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
18. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
19. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.
20. PROVIDE EXTERIOR BUILDING MOUNTED PHOTOCELL AND ROUTE EXTERIOR LIGHTING CIRCUITS THROUGH PHOTOCELL FOR AUTOMATIC CONTROL OF EXTERIOR LIGHTS. LOCATE PHOTOCELL PER MANUFACTURER RECOMMENDATIONS.

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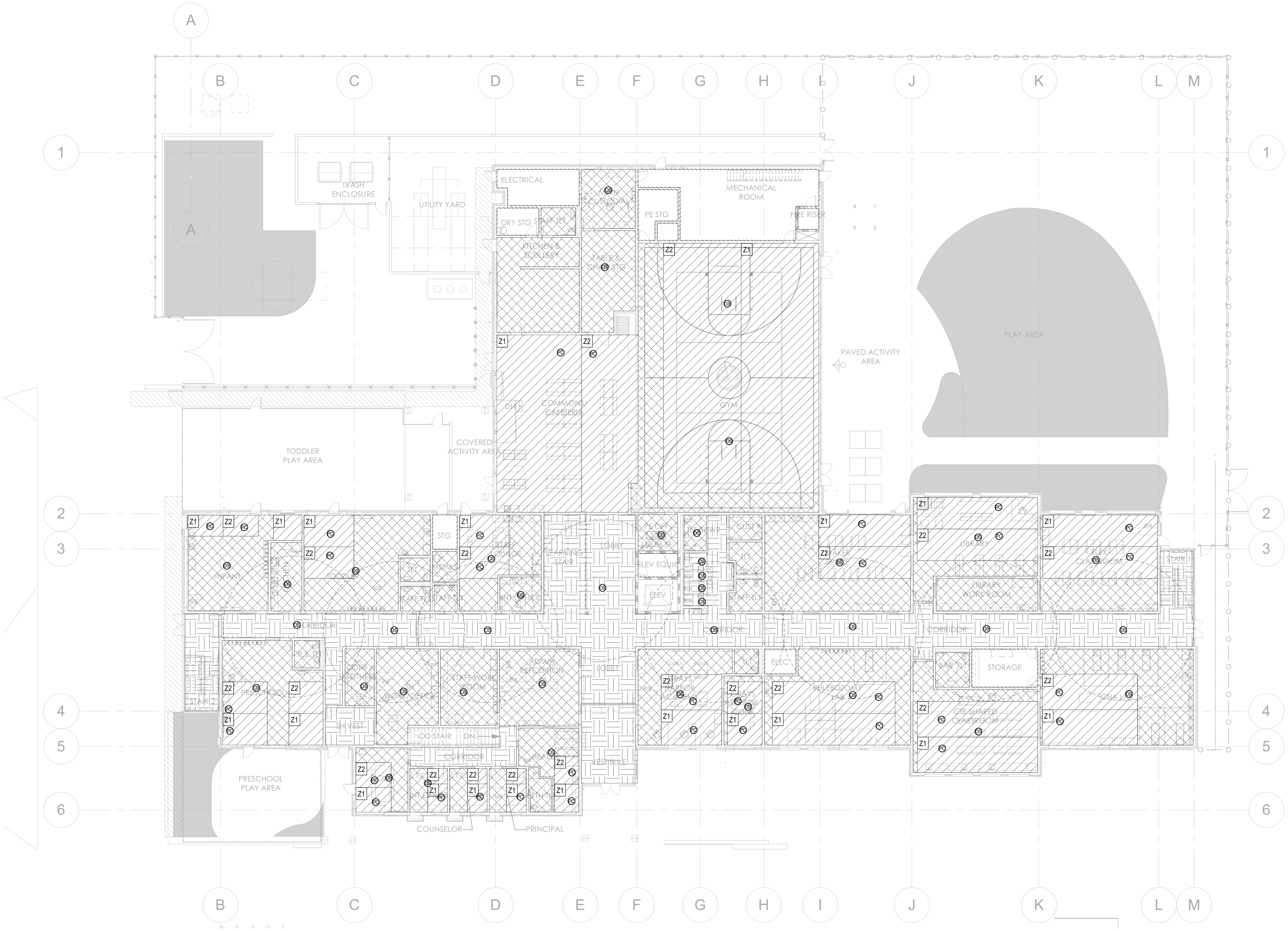
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FIRST FLOOR LIGHTING PLAN

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1 FIRST FLOOR LIGHTING CONTROLS PLAN

1/16" = 1'-0"

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. REFER TO LIGHTING CONTROL SCHEDULES AND DIAGRAMS ON SHEETS E10.01 FOR ADDITIONAL INFORMATION.
4. FINAL OCCUPANCY SENSOR LAYOUT AND OCCUPANCY SENSOR TYPES SHALL BE BASED ON MANUFACTURER SHOP DRAWINGS. PROVIDE ADDITIONAL DEVICES AS REQUIRED FOR FULL COVERAGE.
5. PHOTOCELLS SHALL BE INSTALLED IN DAYLIGHTING ZONES ACCORDING TO MANUFACTURER INSTALLATION INSTRUCTIONS. OFFSET LOCATIONS AS REQUIRED TO MEET MANUFACTURER REQUIREMENTS.

CONTROL GENERAL NOTES:

OCCUPANCY SENSOR ZONES

AUTOMATIC ON / AUTOMATIC OFF OCCUPANCY SENSORS CONTROL LUMINAIRES IN THIS ZONE

OCCUPANCY SENSOR WITH DAYLIGHT ZONES

AUTOMATIC ON / AUTOMATIC OFF OCCUPANCY SENSORS CONTROL LUMINAIRES IN THIS ZONE

ALSO INCLUDES DAYLIGHT OVERRIDE CONTROLS THAT READ TO QUANTITY OF DAYLIGHT IN THIS ZONE

OPEN/CLOSED LOOP CONTROL OCCUPANCY SENSOR WITH PRIMARY DAYLIGHTING ZONE: Z1

OCCUPANCY SENSOR WITH SECONDARY DAYLIGHTING ZONE: Z2

OCCUPANCY SENSOR WITH TIME CLOCK ZONES

TIME CLOCK OVERRIDE CONTROLS THAT ADJUST LIGHT FIXTURES VIA A CLOCK. SEE SEQUENCE OF OPERATIONS FOR MORE INFORMATION:

MANUAL SWITCH CONTROL ZONES

CONTROLLED BY MANUAL ON/OFF SWITCH:

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08 AUGUST 2025	95% SD

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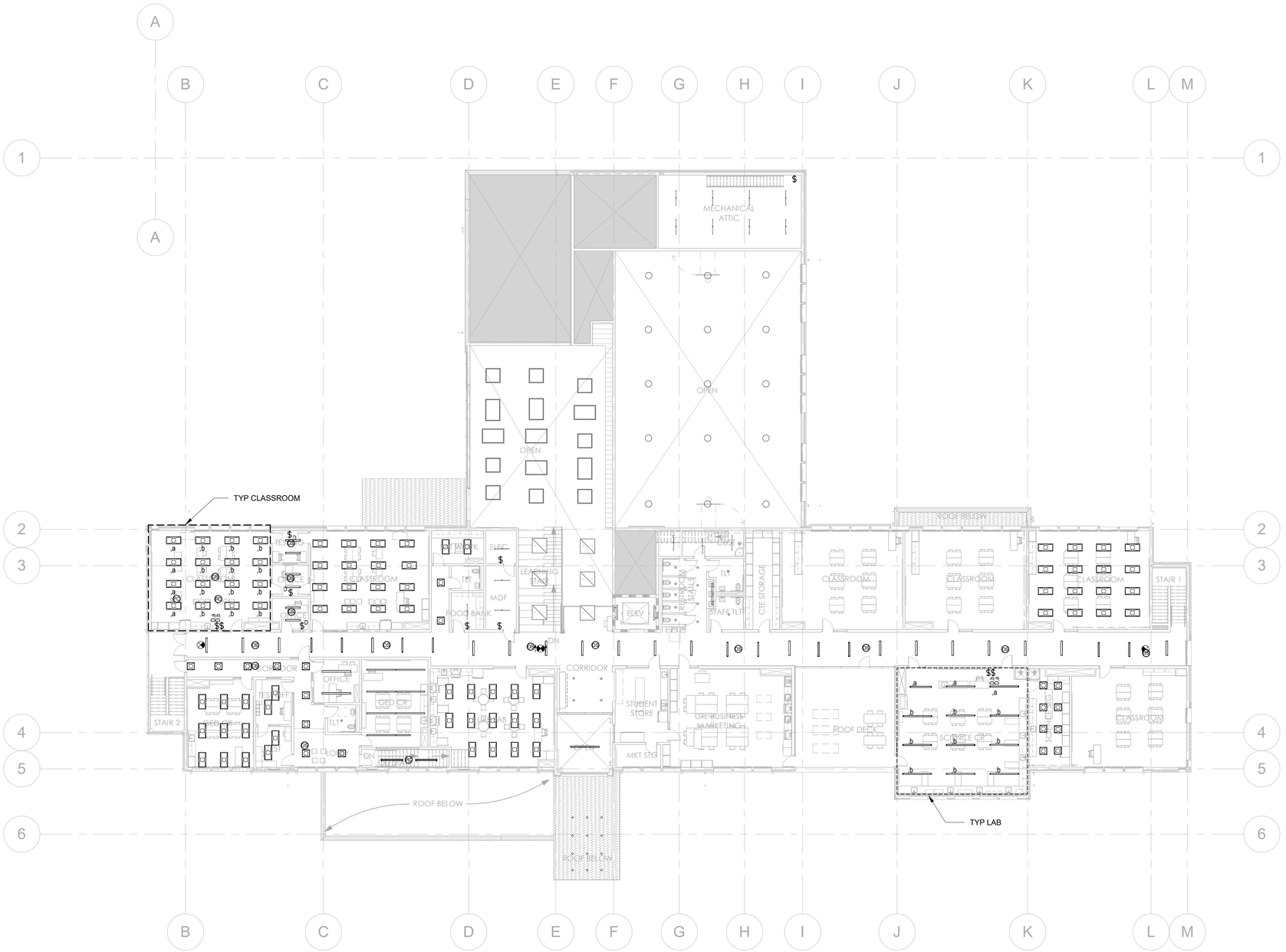
FIRST FLOOR LIGHITNG CONTRLS PLAN

E2.01A

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1 SECOND FLOOR LIGHTING PLAN
1/16" = 1'-0"

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. COORDINATE LOCATION OF LUMINAIRES IN MECHANICAL SPACES WITH DUCTWORK, PIPING, AND EQUIPMENT PRIOR TO INSTALLATION.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR FIXTURE ELEVATIONS AND LOCATIONS.
5. PROVIDE UNSWITCHED CIRCUIT TO EXIT SIGNS.
6. PROVIDE 10' OF EXTRA CONTROL WIRING FOR ALL CEILING MOUNTED LIGHTING CONTROLS (I.E. OCCUPANCY SENSORS, DAYLIGHT SENSORS, ETC.) FOR FIELD REQUIRED ADJUSTMENTS AS NECESSARY.
7. REFER TO SCHEDULES ON SHEETS E0.0X TO E0.0X FOR ADDITIONAL INFORMATION.
8. AN AVERAGE OF AT LEAST 1.0 FOOTCANDLES SHALL BE PROVIDED FOR EMERGENCY EGRESS LIGHTING.
9. PROVIDE UL924 DEVICES FOR ALL EMERGENCY FIXTURES TO MAINTAIN EMERGENCY FUNCTION IN ACCORDANCE WITH NEC 700.12(F) FOR A COMPLETE AND OPERABLE SYSTEM.
10. FINAL QUANTITIES AND LOCATIONS OF EMERGENCY EXIT SIGNS ARE TO BE DETERMINED IN THE FIELD WITH CITY AND STATE INSPECTORS AND THE ARCHITECT. THE CONTRACTOR SHALL PROVIDE A UNIT PRICE IN THEIR BID FOR ADDITIONAL EXIT SIGNS THAT MAY BE REQUIRED BY THE LOCAL JURISDICTION THAT ARE REQUIRED BEYOND WHAT IS SHOWN IN THE CONTRACT DOCUMENTS.
11. ALL CONDUITS SHALL BE PROVIDED WITH A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 25.122.
12. PROVIDE A SEPARATE NEUTRAL FOR ALL 120V AND 277V LIGHTING BRANCH CIRCUITS. COMMON NEUTRALS ARE NOT PERMITTED.
13. PROVIDE A NEUTRAL CONDUCTOR AT ALL LIGHT SWITCHES PER NEC 404.2.
14. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
15. PRIOR TO ROUGH-IN, ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER AND ARCHITECT TO DETERMINE IF ANY CHANGES TO EQUIPMENT FURNISHED BY OTHERS HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.
16. ALL 120V AND 277V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT PERMITTED (EXCEPTION: MULTIWIRE BRANCH CIRCUITS).
17. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
18. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
19. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.
20. PROVIDE EXTERIOR BUILDING MOUNTED PHOTOCELL AND ROUTE EXTERIOR LIGHTING CIRCUITS THROUGH PHOTOCELL FOR AUTOMATIC CONTROL OF EXTERIOR LIGHTS. LOCATE PHOTOCELL PER MANUFACTURER RECOMMENDATIONS.

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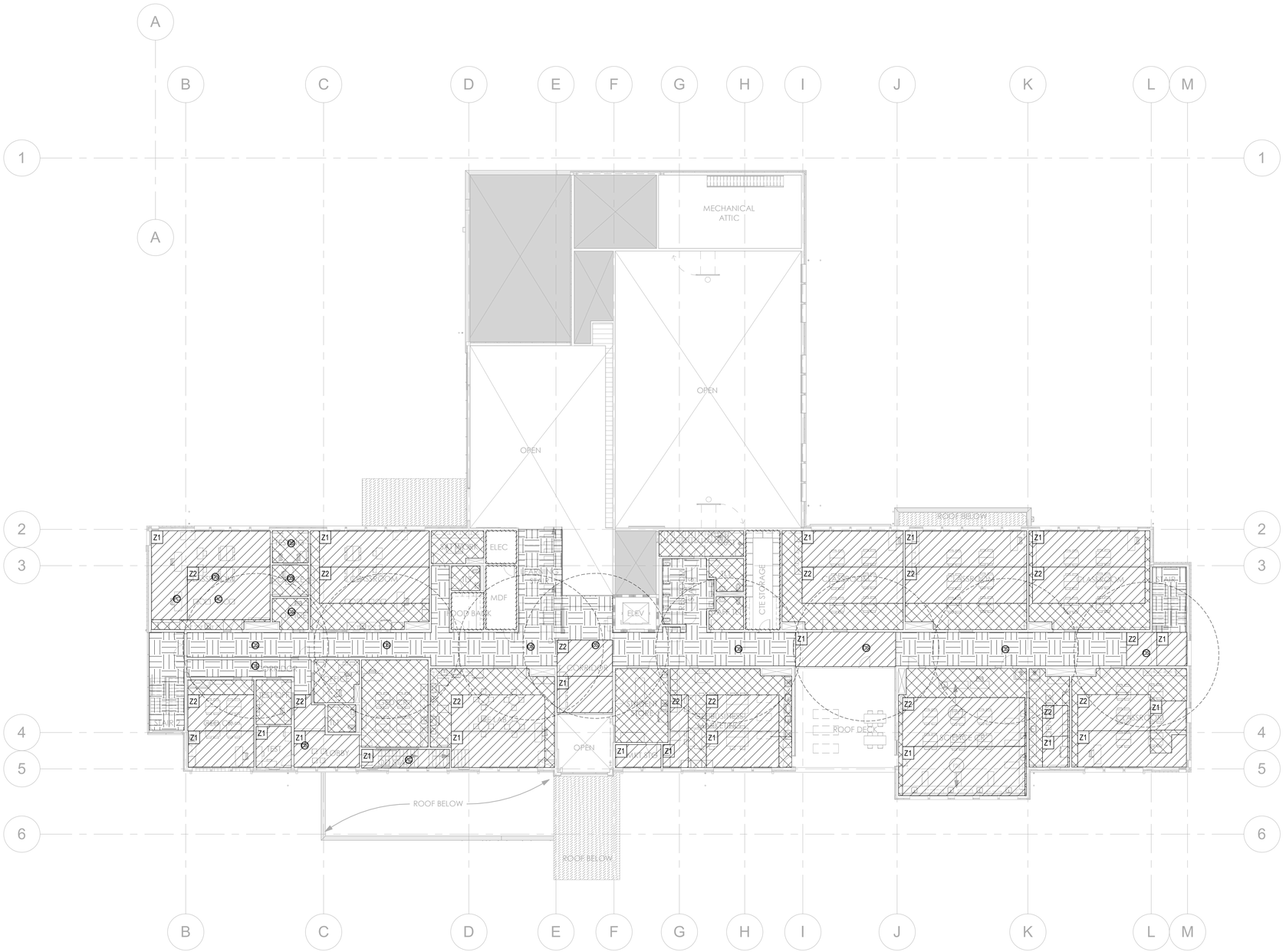
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SECOND FLOOR LIGHTING PLAN

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1 SECOND FLOOR LIGHTING CONTROLS PLAN
1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. REFER TO LIGHTING CONTROL SCHEDULES AND DIAGRAMS ON SHEETS E10.01 FOR ADDITIONAL INFORMATION.
4. FINAL OCCUPANCY SENSOR LAYOUT AND OCCUPANCY SENSOR TYPES SHALL BE BASED ON MANUFACTURER SHOP DRAWINGS. PROVIDE ADDITIONAL DEVICES AS REQUIRED FOR FULL COVERAGE.
5. PHOTOCELLS SHALL BE INSTALLED IN DAYLIGHTING ZONES ACCORDING TO MANUFACTURER INSTALLATION INSTRUCTIONS. OFFSET LOCATIONS AS REQUIRED TO MEET MANUFACTURER REQUIREMENTS.

CONTROL GENERAL NOTES:

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OCCUPANCY SENSOR WITH DAYLIGHT ZONES

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OCCUPANCY SENSOR WITH SECONDARY DAYLIGHTING ZONE:

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MANUAL SWITCH CONTROL ZONES

CONTROLLED BY MANUAL ON/OFF SWITCH:

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1 MECHANICAL ATTIC LIGHTING PLAN
1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
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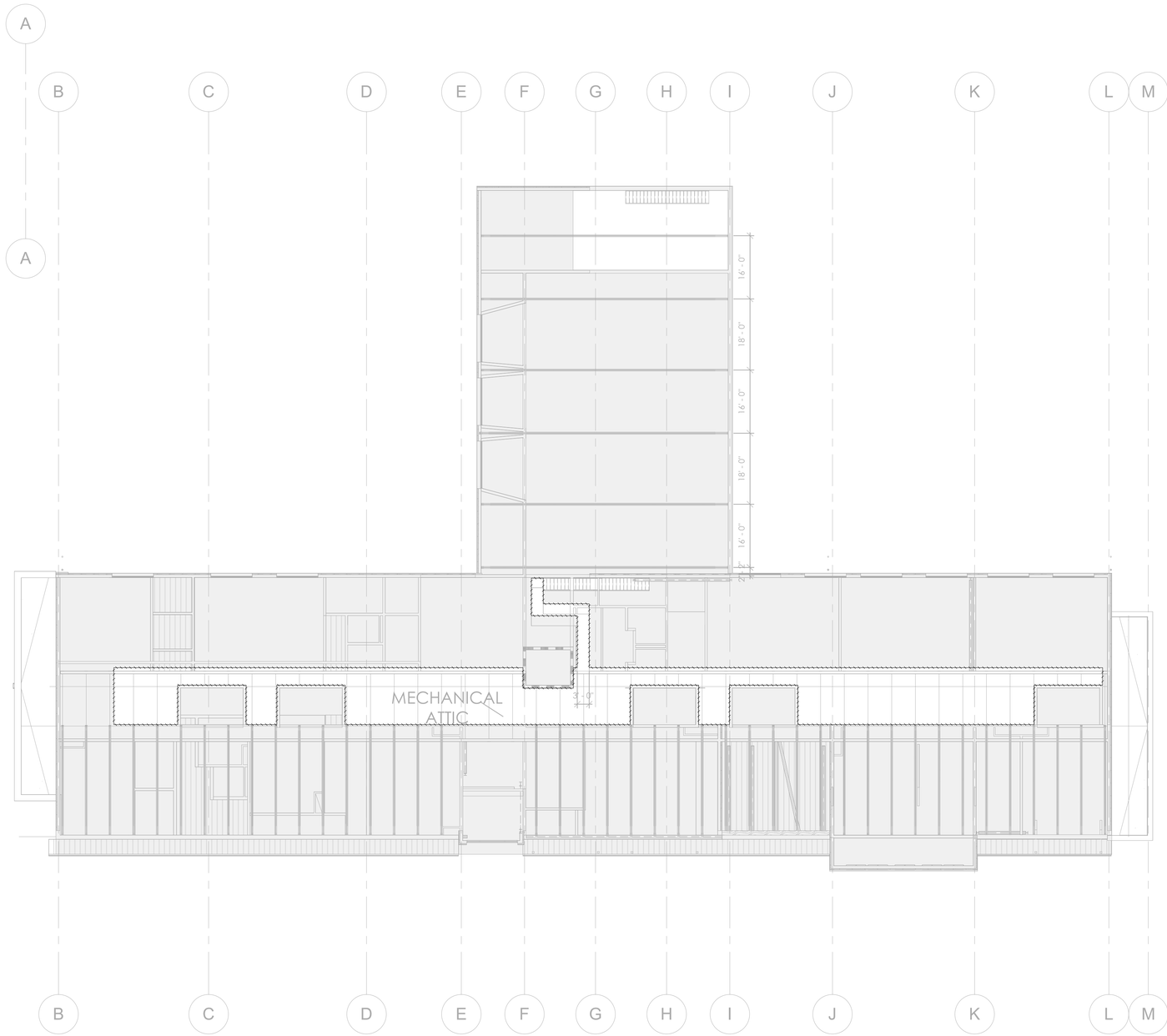
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MECHANICAL ATTIC LIGHTING PLAN

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1 MECHANICAL ATTIC LIGHTING CONTROLS
1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. REFER TO LIGHTING CONTROL SCHEDULES AND DIAGRAMS ON SHEETS E10.01 FOR ADDITIONAL INFORMATION.
4. FINAL OCCUPANCY SENSOR LAYOUT AND OCCUPANCY SENSOR TYPES SHALL BE BASED ON MANUFACTURER SHOP DRAWINGS. PROVIDE ADDITIONAL DEVICES AS REQUIRED FOR FULL COVERAGE.
5. PHOTOCELLS SHALL BE INSTALLED IN DAYLIGHTING ZONES ACCORDING TO MANUFACTURER INSTALLATION INSTRUCTIONS. OFFSET LOCATIONS AS REQUIRED TO MEET MANUFACTURER REQUIREMENTS.

CONTROL GENERAL NOTES:

OCCUPANCY SENSOR ZONES

AUTOMATIC ON / AUTOMATIC OFF OCCUPANCY SENSORS CONTROL LUMINAIRES IN THIS ZONE

OCCUPANCY SENSOR WITH DAYLIGHT ZONES

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OPEN/CLOSED LOOP CONTROL OCCUPANCY SENSOR WITH PRIMARY DAYLIGHTING ZONE: Z1

OCCUPANCY SENSOR WITH SECONDARY DAYLIGHTING ZONE: Z2

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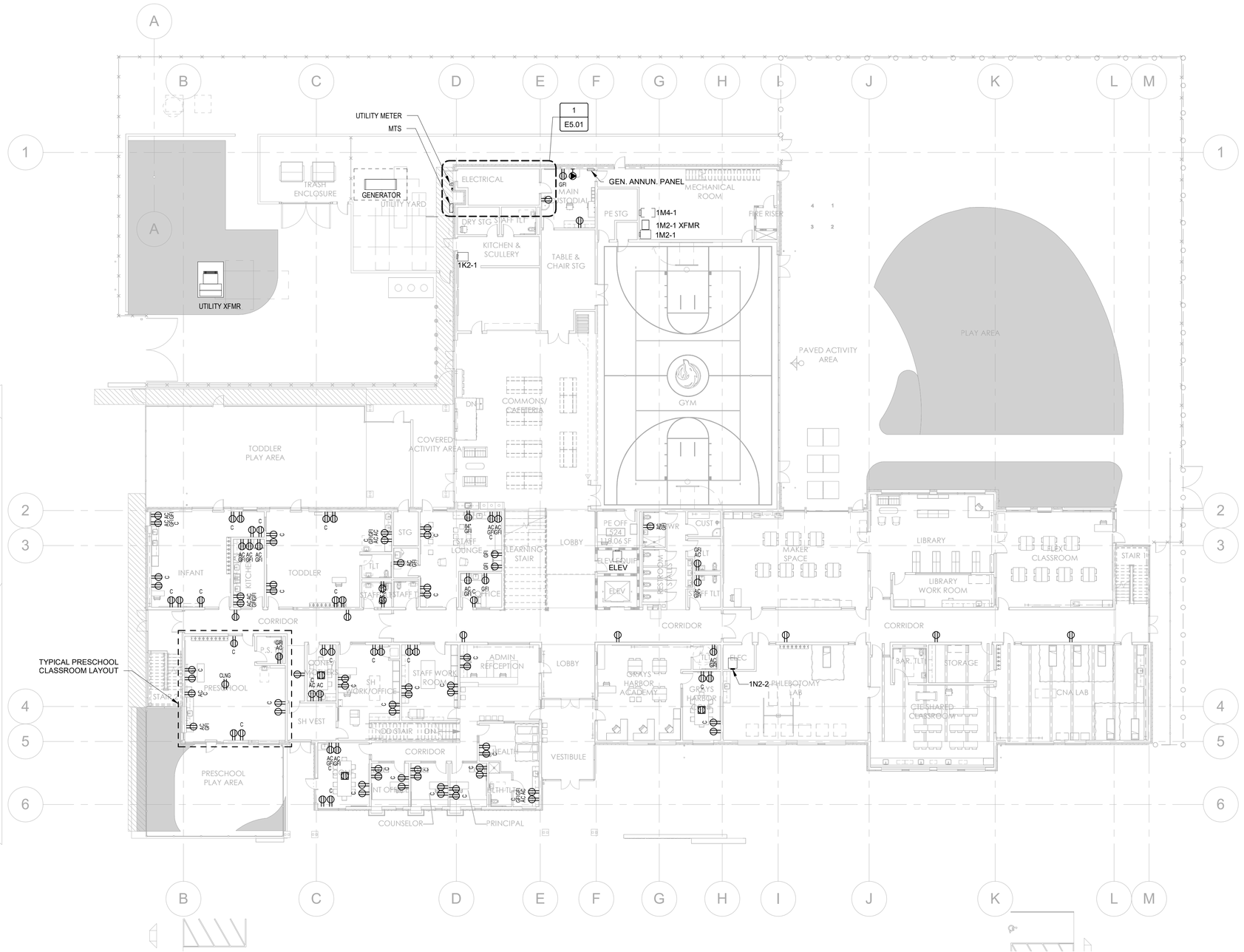
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Sheet Title
MECHANICAL ATTIC LIGHING CONTROLS PLAN

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1 FIRST FLOOR POWER PLAN
1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. REFER TO SCHEDULES ON SHEETS E0.0X TO E0.0X FOR ADDITIONAL INFORMATION.
3. PROVIDE ADDITIONAL PULL BOXES AS REQUIRED TO MINIMIZE TOTAL BEND RADIUS TO 270 DEGREES FOR POWER CONDUCTORS AND 180 DEGREES FOR LOW VOLTAGE CABLING. SIZE PULL BOXES PER NEC.
4. PROVIDE EQUIPMENT PADS AND FOUNDATIONS FOR CUSTOMER OWNED EQUIPMENT. HOUSEKEEPING EQUIPMENT PADS SHALL BE MINIMUM 4" THICK AND EXTEND MINIMUM 4" AROUND FLOOR MOUNTED ELECTRICAL EQUIPMENT.
5. WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED TO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES. WHERE IT IS NECESSARY TO MOUNT DISCONNECT SWITCH ABOVE AN INACCESSIBLE CEILING, PROVIDE REMOVABLE ACCESS PANEL. COORDINATE ACCESS PANEL TYPE, STYLE, COLOR, AND LOCATION WITH ARCHITECT.
6. VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE LOCATION/INSTALLATION OF DISCONNECTS AND WIRING WITH RESPECTIVE CONTRACTORS.
7. ALL CONDUITS SHALL BE PROVIDED WITH A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 25.122.
8. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
9. PRIOR TO ROUGH-IN, ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER AND ARCHITECT TO DETERMINE IF ANY CHANGES TO EQUIPMENT FURNISHED BY OTHERS HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.
10. ALL ENCLOSED MOTOR CONTROLLERS SHALL BE FURNISHED WITH FULL-SIZED OVERLOADS, 120V CONTROL-VOLTAGE TRANSFORMERS WITH PRIMARY AND SECONDARY FUSING, ROTARY HOA SELECTOR SWITCH, COVER-MOUNTED ON/OFF PILOT LIGHTS, AND TWO SETS EACH OF NO AND NC AUXILIARY DRY CONTACTS.
11. ALL 120V AND 277V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT PERMITTED (EXCEPTION: MULTIWIRE BRANCH CIRCUITS).
12. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
13. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
14. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS "WEATHER RESISTANT". RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED IN ACCORDANCE WITH NEC 406.9.
15. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.

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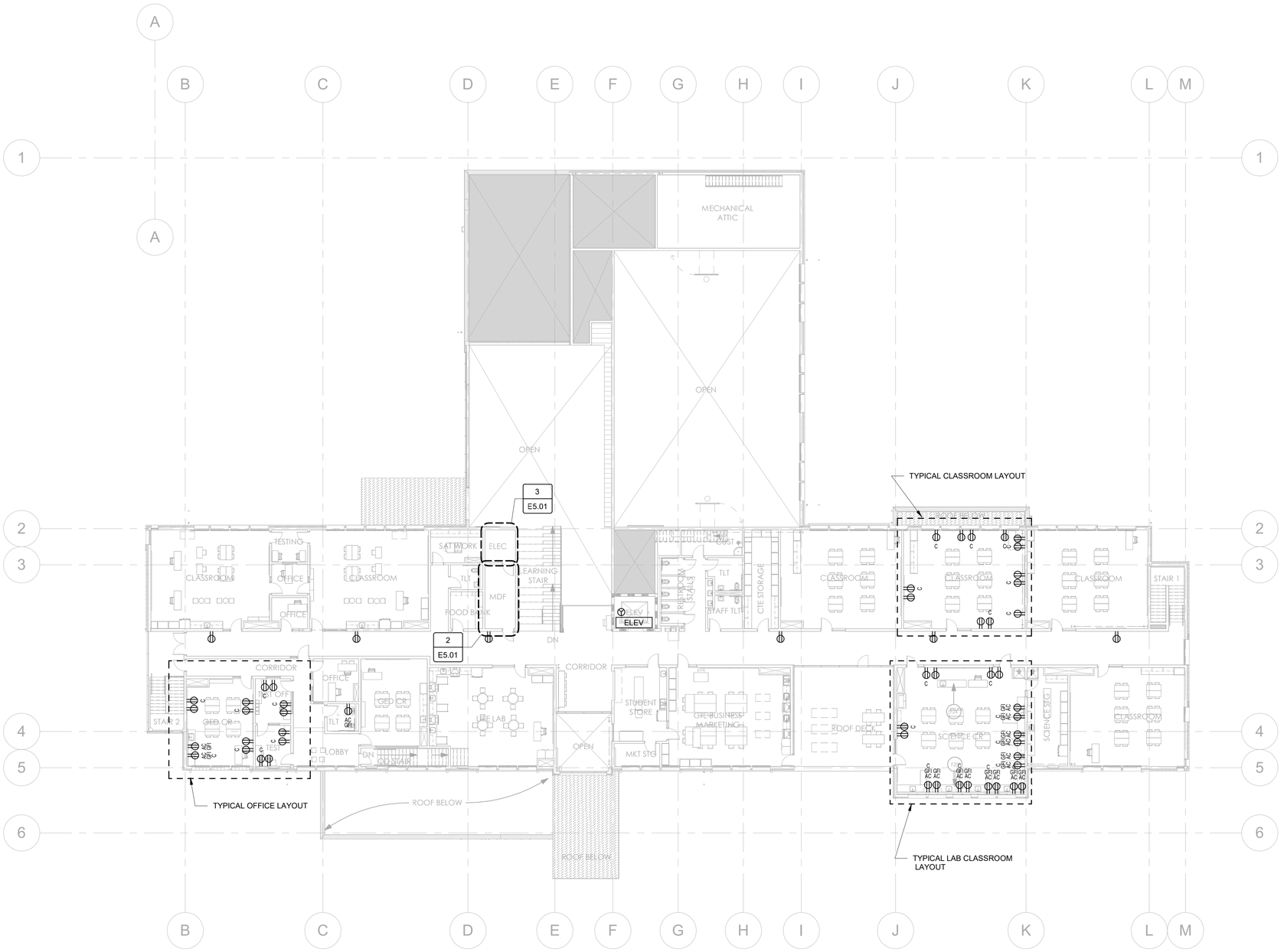
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FIRST FLOOR POWER PLAN

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1 SECOND FLOOR POWER PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. REFER TO SCHEDULES ON SHEETS E0.0X TO E0.0X FOR ADDITIONAL INFORMATION.
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4. PROVIDE EQUIPMENT PADS AND FOUNDATIONS FOR CUSTOMER OWNED EQUIPMENT. HOUSEKEEPING EQUIPMENT PADS SHALL BE MINIMUM 4" THICK AND EXTEND MINIMUM 4" AROUND FLOOR MOUNTED ELECTRICAL EQUIPMENT.
5. WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED TO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES. WHERE IT IS NECESSARY TO MOUNT DISCONNECT SWITCH ABOVE AN INACCESSIBLE CEILING, PROVIDE REMOVABLE ACCESS PANEL. COORDINATE ACCESS PANEL TYPE, STYLE, COLOR, AND LOCATION WITH ARCHITECT.
6. VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE LOCATION/INSTALLATION OF DISCONNECTS AND WIRING WITH RESPECTIVE CONTRACTORS.
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8. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
9. PRIOR TO ROUGH-IN, ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER AND ARCHITECT TO DETERMINE IF ANY CHANGES TO EQUIPMENT FURNISHED BY OTHERS HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.
10. ALL ENCLOSED MOTOR CONTROLLERS SHALL BE FURNISHED WITH FULL-SIZED OVERLOADS, 120V CONTROL-VOLTAGE TRANSFORMERS WITH PRIMARY AND SECONDARY FUSING, ROTARY HOA SELECTOR SWITCH, COVER-MOUNTED ON/OFF PILOT LIGHTS, AND TWO SETS EACH OF NO AND NC AUXILIARY DRY CONTACTS.
11. ALL 120V AND 277V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT PERMITTED (EXCEPTION: MULTIWIRE BRANCH CIRCUITS).
12. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
13. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
14. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS "WEATHER RESISTANT". RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED IN ACCORDANCE WITH NEC 406.9.
15. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.

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08 AUGUST 2025	95% SD

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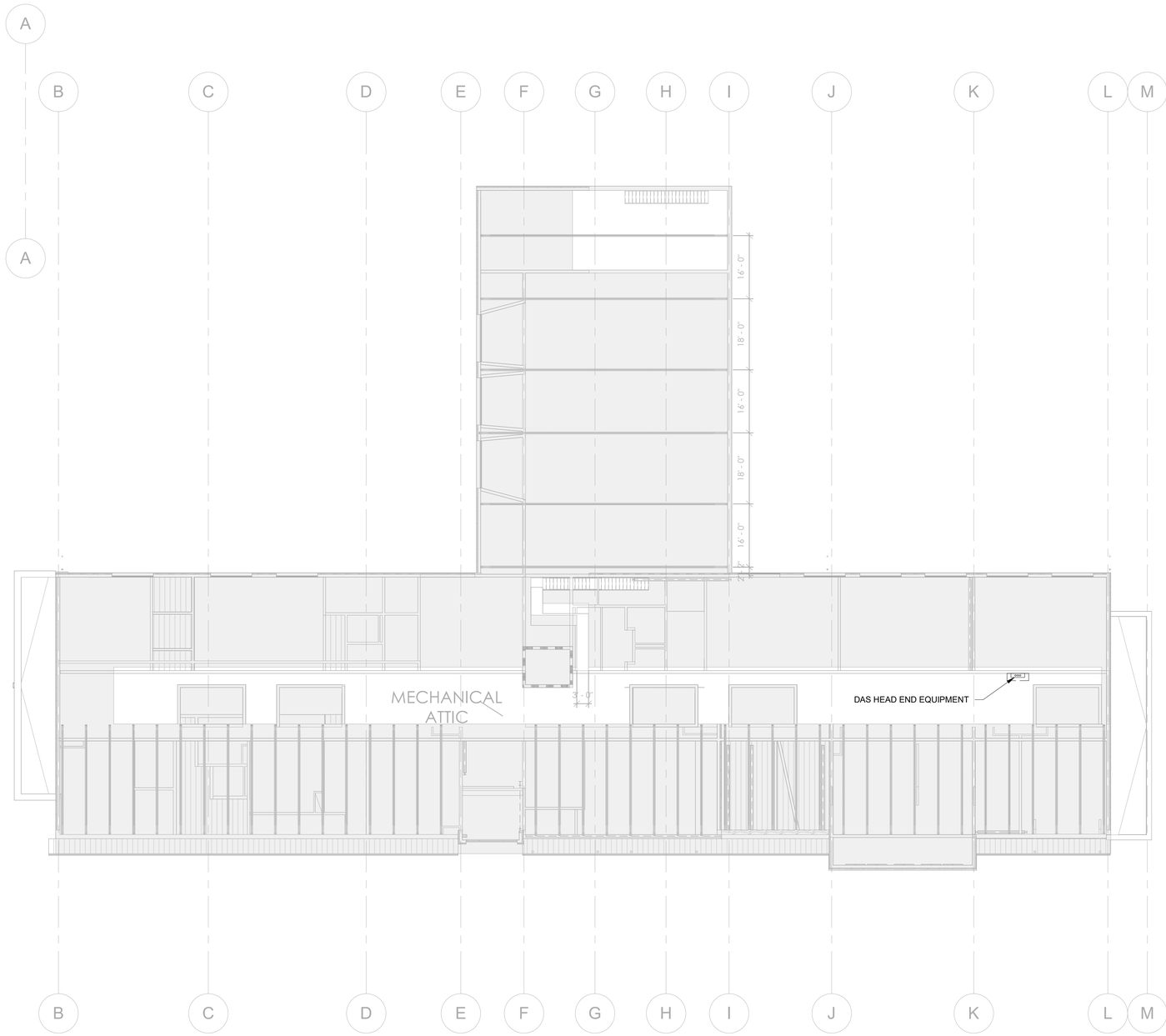
SECOND FLOOR POWER PLAN

E3.02

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1 MECHANICAL ATTIC POWER PLAN
1/16" = 1'-0"

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. REFER TO SCHEDULES ON SHEETS E0.0X TO E0.0X FOR ADDITIONAL INFORMATION.
3. PROVIDE ADDITIONAL PULL BOXES AS REQUIRED TO MINIMIZE TOTAL BEND RADIUS TO 270 DEGREES FOR POWER CONDUCTORS AND 180 DEGREES FOR LOW VOLTAGE CABLING. SIZE PULL BOXES PER NEC.
4. PROVIDE EQUIPMENT PADS AND FOUNDATIONS FOR CUSTOMER OWNED EQUIPMENT. HOUSEKEEPING EQUIPMENT PADS SHALL BE MINIMUM 4" THICK AND EXTEND MINIMUM 4" AROUND FLOOR MOUNTED ELECTRICAL EQUIPMENT.
5. WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED TO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES. WHERE IT IS NECESSARY TO MOUNT DISCONNECT SWITCH ABOVE AN INACCESSIBLE CEILING, PROVIDE REMOVABLE ACCESS PANEL. COORDINATE ACCESS PANEL TYPE, STYLE, COLOR, AND LOCATION WITH ARCHITECT.
6. VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE LOCATION/INSTALLATION OF DISCONNECTS AND WIRING WITH RESPECTIVE CONTRACTORS.
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8. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
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15. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.
16. ALL WIRING ABOVE ROOF SHALL BE 90-DEGREE C COPPER AND UL LISTED FOR WET LOCATIONS.
17. UNLESS OTHERWISE NOTED ON THE PLANS. WIRE SIZES INDICATED FOR ROOF-MOUNTED EQUIPMENT ARE BASED UPON NEC TABLE 310.15(B)(16) AND HAS NOT BEEN DERATED. ALL CONDUCTORS ON THE ROOF AND/OR SERVING ROOF-MOUNTED EQUIPMENT SHALL BE DE-RATED FOR 117F-122F (NEC TABLE 310.15(B)(2)(A) AND NEC TABLE 310.15(B)(3)(C).
18. ROUTE ALL CONDUITS TO ROOF-MOUNTED MECHANICAL EQUIPMENT WITHIN MECHANICAL EQUIPMENT CURBS WHEN PRESENT. COORDINATE ALL ROOF PENETRATIONS FOR ELECTRICAL CONDUITS WITHIN MECHANICAL EQUIPMENT CURBS WITH THE MECHANICAL CONTRACTOR. WHERE IS IS NOT POSSIBLE TO ROUTE CONDUITS WITHIN MECHANICAL EQUIPMENT CURBS, COORDINATE PIPE SEAL TYPE AND MATERIALS WITH ROOFING INSTALLER FOR COMPATIBILITY WITH THE ROOFING SYSTEM BEING INSTALLED.
19. ALL DISCONNECT SWITCHES LOCATED ON THE ROOF SHALL BE NEMA 3R RATED.

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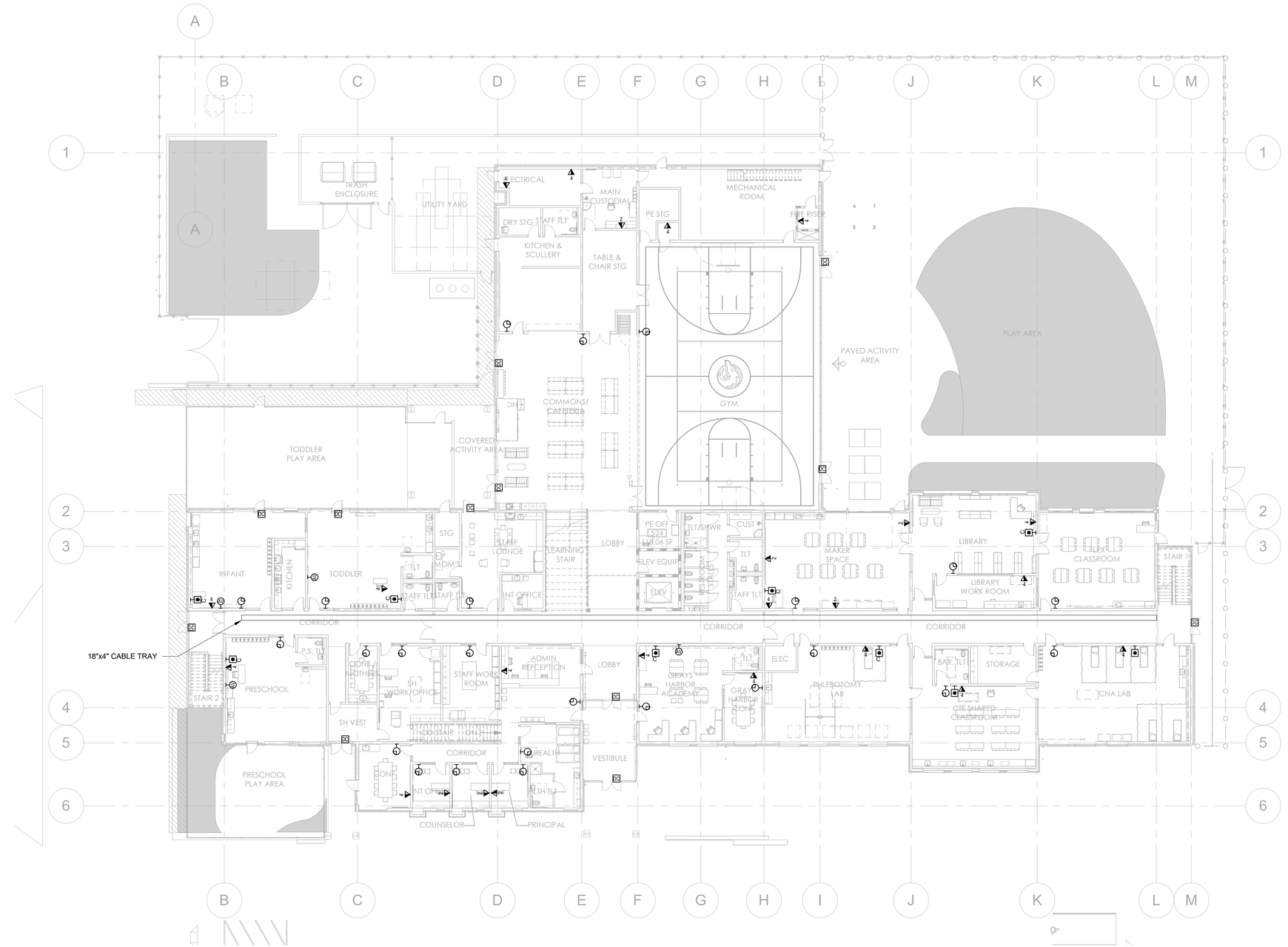
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Sheet Title
MECHANICAL ATTIC POWER PLAN

E3.03
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1 FIRST FLOOR SYSTEM PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. MINIMUM CONDUIT SLEEVE SIZE IS 2" FOR ALL VOICE/DATA, INTERCOM/CLOCK, AND SECURITY CABLING. PROVIDE MINIMUM 24" SEPARATION FOR ALL CONDUIT SLEEVES AND CABLE BUNDLES OF 20 OR MORE.
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8. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.
9. ROUTE ALL DATA CABLING ON THIS SHEET TO [MDF/IDF RM #].
10. ALL DIVISION 27 AND 28 SYSTEMS SHOWN ARE PROVIDED FOR BASIS-OF-DESIGN LAYOUTS AND PERFORMANCE CRITERIA TO SUPPORT BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS, EQUIPMENT, PROGRAMMING, ACCESSORIES, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY INDICATED ON THE DRAWINGS.

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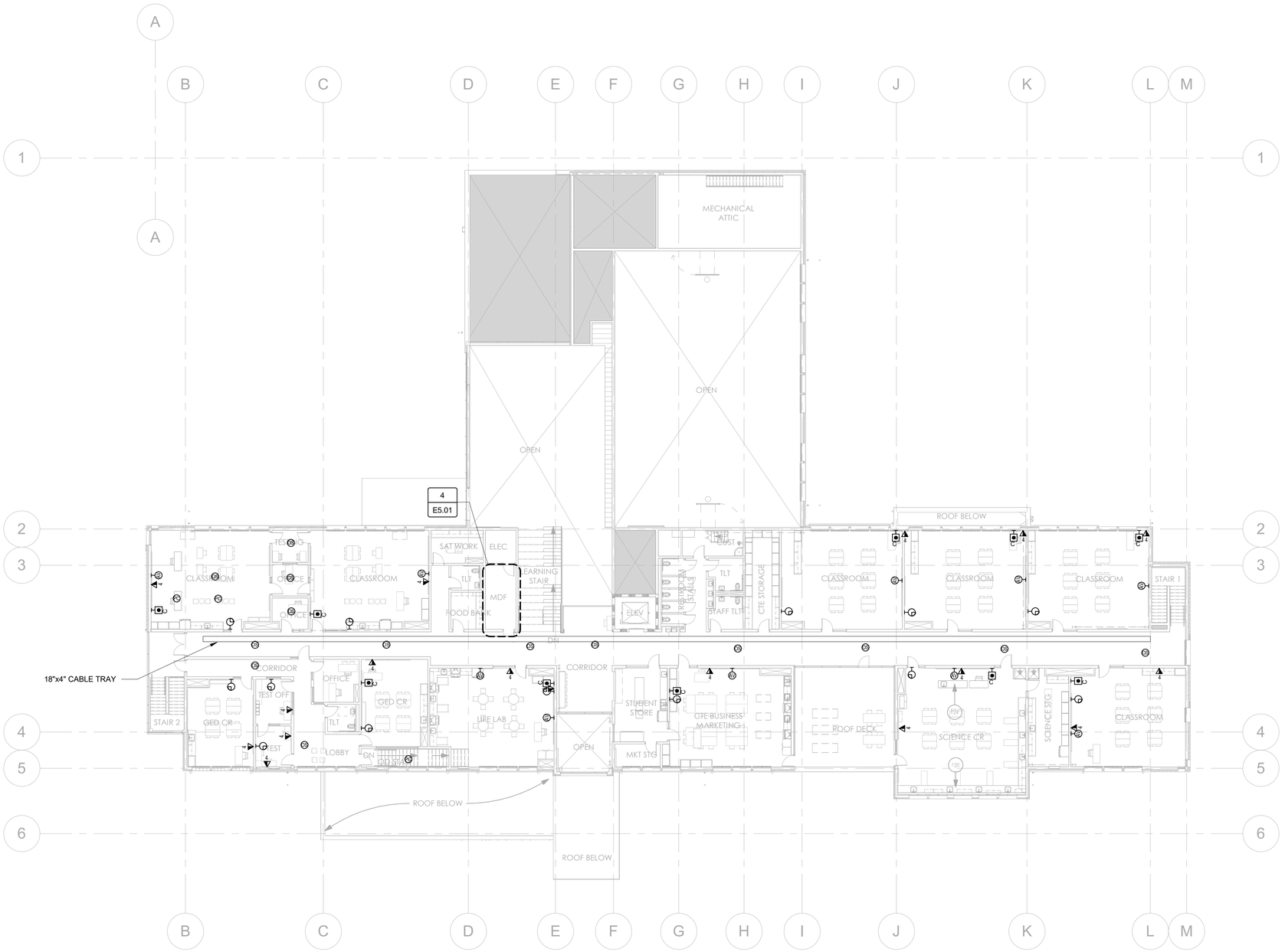
Sheet Title
LOW VOLTAGE SYSTEMS PLAN

E4.01

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1 SECOND FLOOR SYSTEM PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

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2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. MINIMUM CONDUIT SLEEVE SIZE IS 2" FOR ALL VOICE/DATA, INTERCOM/CLOCK, AND SECURITY CABLING. PROVIDE MINIMUM 24" SEPARATION FOR ALL CONDUIT SLEEVES AND CABLE BUNDLES OF 20 OR MORE.
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9. ROUTE ALL DATA CABLING ON THIS SHEET TO [MDF/IDF RM #].
10. ALL DIVISION 27 AND 28 SYSTEMS SHOWN ARE PROVIDED FOR BASIS-OF-DESIGN LAYOUTS AND PERFORMANCE CRITERIA TO SUPPORT BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS, EQUIPMENT, PROGRAMMING, ACCESSORIES, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY INDICATED ON THE DRAWINGS.

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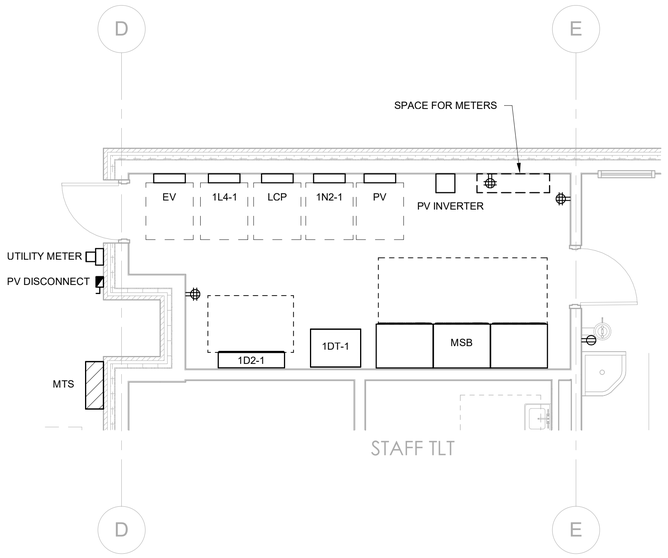
LOW VOLTAGE SYSTEMS PLAN

E4.02

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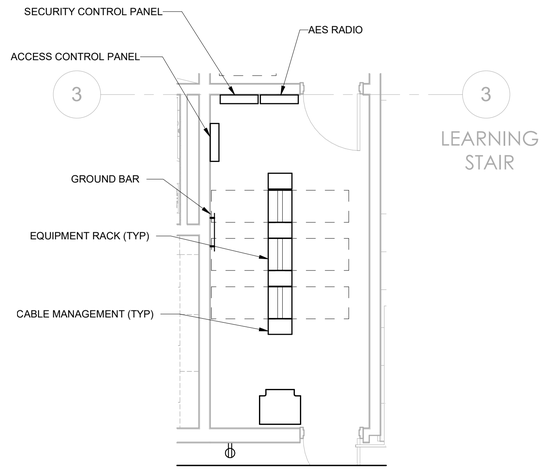
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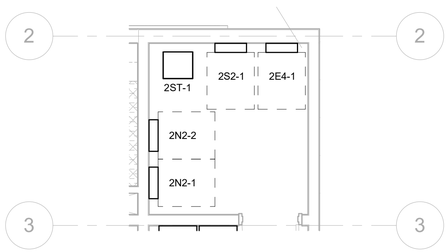
1 ENLARGED FIRST FLOOR ELECTRICAL RM

1/4" = 1'-0"



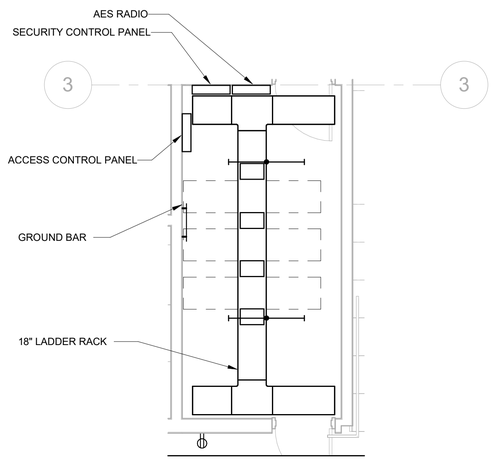
2 ENLARGED POWER MDF ROOM

1/4" = 1'-0"



3 ENLARGED SECOND FLOOR ELEC RM

1/4" = 1'-0"



4 ENLARGED LOW VOLTAGE MDF ROOM

1/4" = 1'-0"

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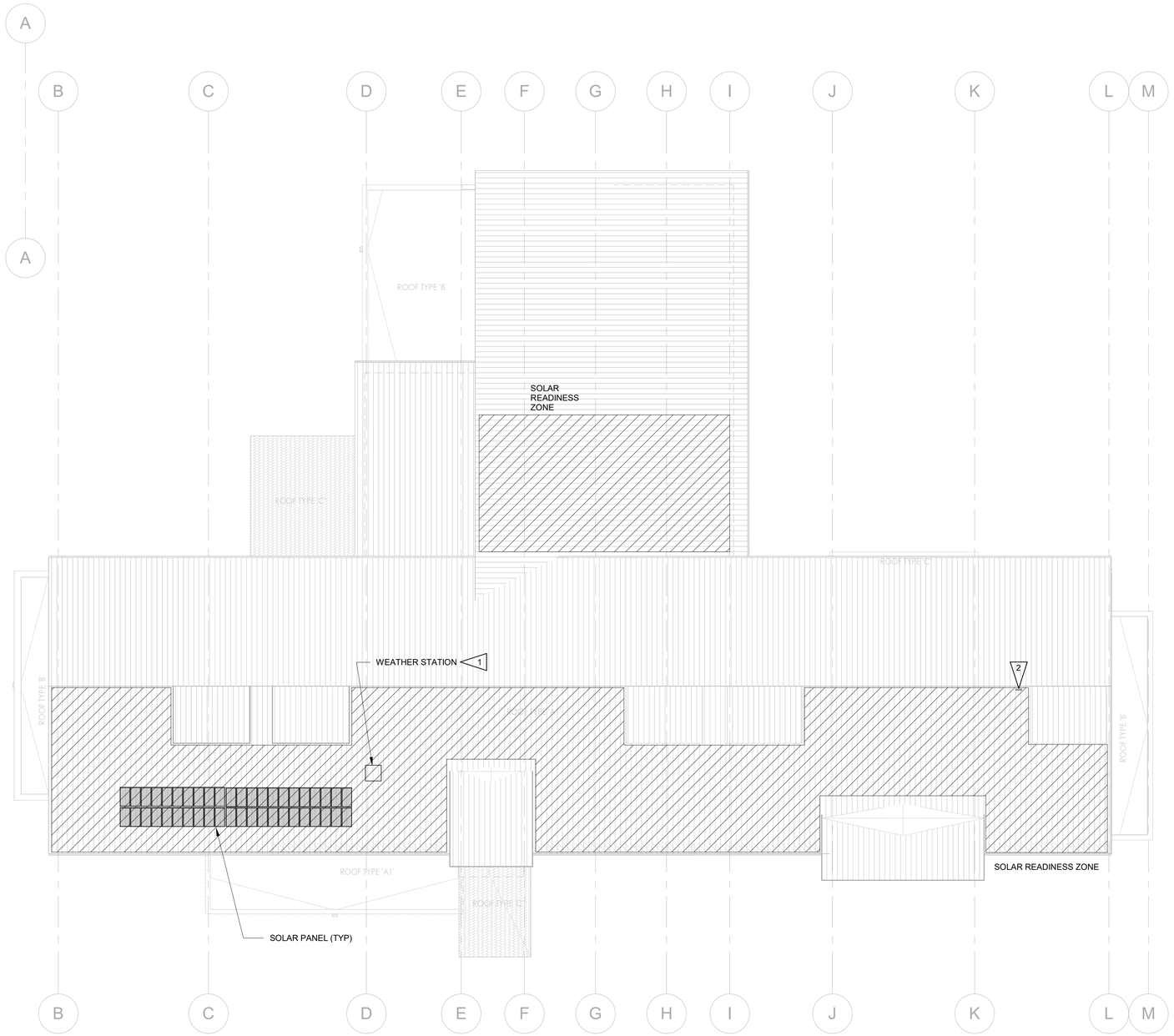
ELECTRICAL ENLARGED PLANS

E5.01

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1 ELECTRICAL ROOF PLAN
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NORTH

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11. ALL 120V AND 277V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT PERMITTED (EXCEPTION: MULTIWIRE BRANCH CIRCUITS).
12. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
13. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
14. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS "WEATHER RESISTANT". RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED IN ACCORDANCE WITH NEC 406.9. PROVIDE WEATHERPROOF GFCI MAINTENANCE RECEPTACLE WITHIN 25-FEET OF ALL ROOF-MOUNTED MECHANICAL EQUIPMENT.
15. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.
16. ALL WIRING ABOVE ROOF SHALL BE 90-DEGREE C COPPER AND UL LISTED FOR WET LOCATIONS.
17. UNLESS OTHERWISE NOTED ON THE PLANS, WIRE SIZES INDICATED FOR ROOF-MOUNTED EQUIPMENT ARE BASED UPON NEC TABLE 310.15(B)(16) AND HAS NOT BEEN DERATED. ALL CONDUCTORS ON THE ROOF AND/OR SERVING ROOF-MOUNTED EQUIPMENT SHALL BE DE-RATED FOR 117F-122F (NEC TABLE 310.15(B)(2)(A) AND NEC TABLE 310.15(B)(3)(C).
18. ROUTE ALL CONDUITS TO ROOF-MOUNTED MECHANICAL EQUIPMENT WITHIN MECHANICAL EQUIPMENT CURBS WHEN PRESENT. COORDINATE ALL ROOF PENETRATIONS FOR ELECTRICAL CONDUITS WITHIN MECHANICAL EQUIPMENT CURBS WITH THE MECHANICAL CONTRACTOR. WHERE IS IS NOT POSSIBLE TO ROUTE CONDUITS WITHIN MECHANICAL EQUIPMENT CURBS, COORDINATE PIPE SEAL TYPE AND MATERIALS WITH ROOFING INSTALLER FOR COMPATIBILITY WITH THE ROOFING SYSTEM BEING INSTALLED.
19. ALL DISCONNECT SWITCHES LOCATED ON THE ROOF SHALL BE NEMA 3R RATED.

FLAG NOTES:

1. PROVIDE CAT-6 CABLE FROM WEATHER STATION DOWN TO MDF ROOM.
2. PROVIDE CONDUIT AND PATHWAY FOR DAS HEAD-END EQUIPMENT. ROUTE CONDUIT AND PATHWAY FROM MECHANICAL ATTIC TO ROOF.

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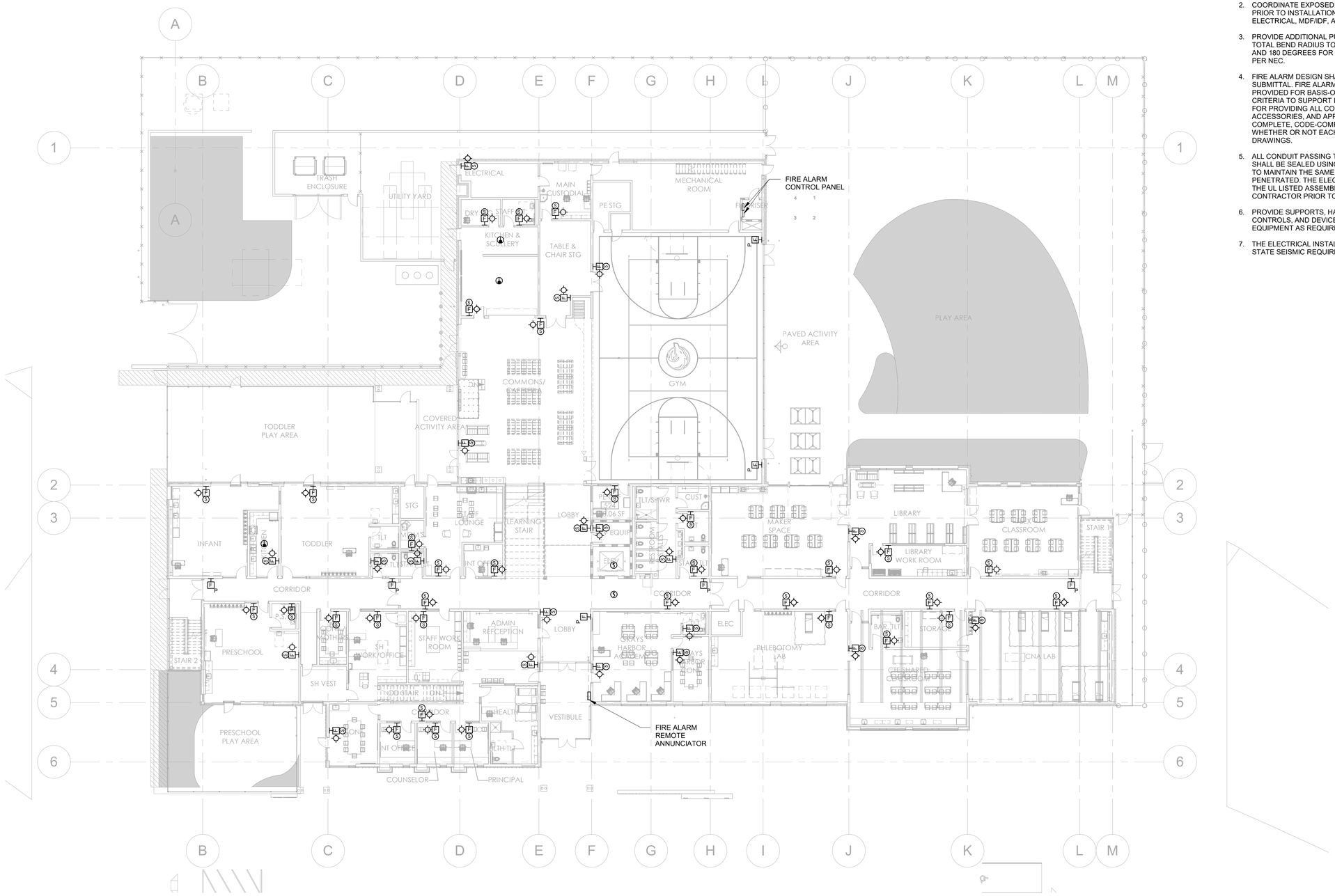
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ELECTRICAL ROOF PLAN

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1 FIRST FLOOR FIRE ALARM PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. PROVIDE ADDITIONAL PULL BOXES FOR AS REQUIRED TO MINIMIZE TOTAL BEND RADIUS TO 270 DEGREES FOR POWER CONDUCTORS AND 180 DEGREES FOR LOW VOLTAGE CABLING. SIZE PULL BOXES PER NEC.
4. FIRE ALARM DESIGN SHALL BE A SEPARATE DEFERRED PERMIT SUBMITTAL. FIRE ALARM EQUIPMENT AND DEVICES SHOWN ARE PROVIDED FOR BASIS-OF-DESIGN LAYOUTS AND PERFORMANCE CRITERIA TO SUPPORT BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS, EQUIPMENT, PROGRAMMING, ACCESSORIES, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY INDICATED ON THE DRAWINGS.
5. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
6. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
7. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.

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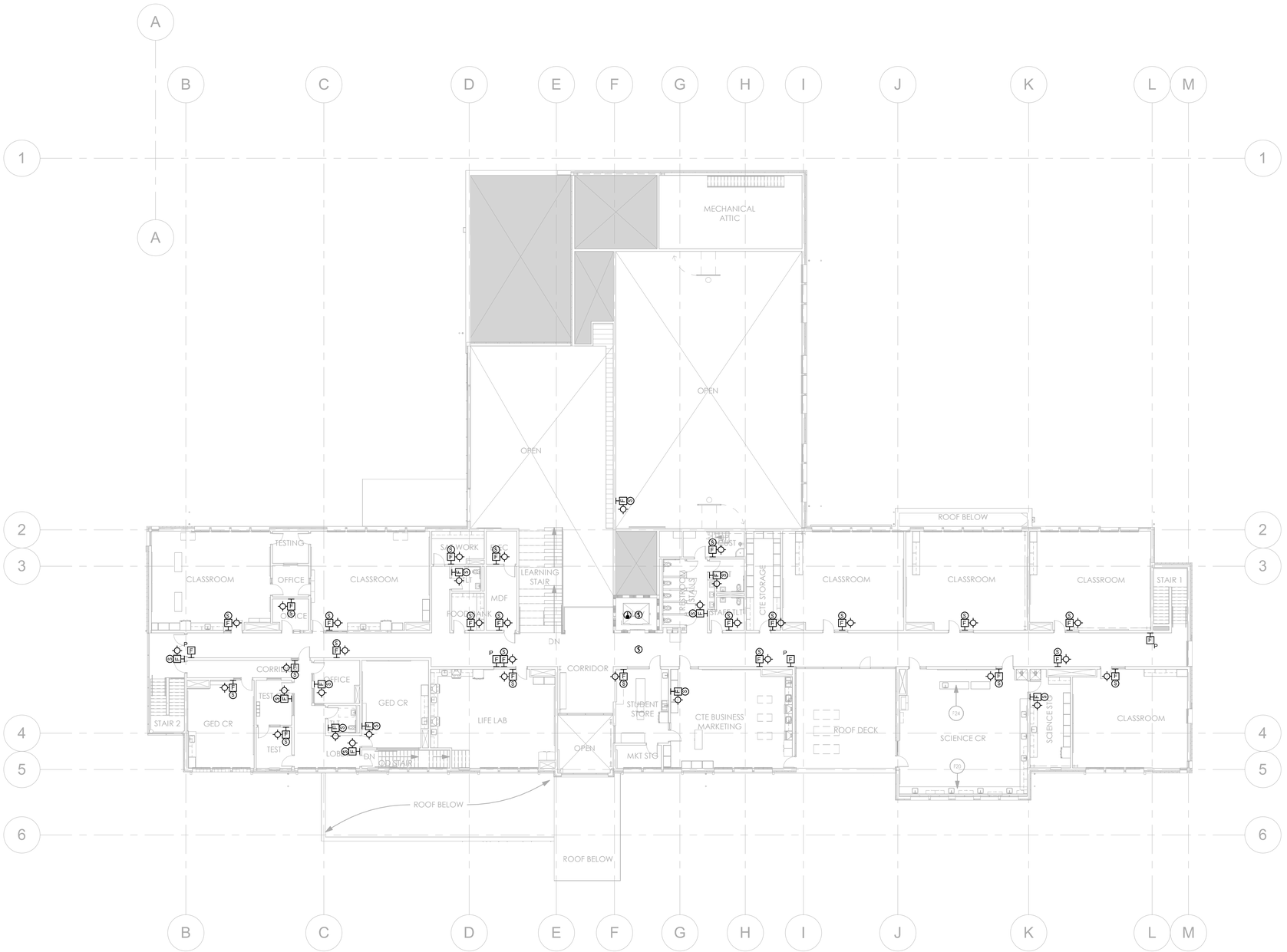
FIRE ALARM SYSTEM FLOOR PLAN

E7.01

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1 SECOND FLOOR FIRE ALARM PLAN

1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL PRIOR TO INSTALLATION.
2. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECTURAL PRIOR TO INSTALLATION IN ALL SPACES EXCEPT FOR MECHANICAL, ELECTRICAL, MDF/IDF, AND STORAGE ROOMS.
3. PROVIDE ADDITIONAL PULL BOXES FOR AS REQUIRED TO MINIMIZE TOTAL BEND RADIUS TO 270 DEGREES FOR POWER CONDUCTORS AND 180 DEGREES FOR LOW VOLTAGE CABLING. SIZE PULL BOXES PER NEC.
4. FIRE ALARM DESIGN SHALL BE A SEPARATE DEFERRED PERMIT SUBMITTAL. FIRE ALARM EQUIPMENT AND DEVICES SHOWN ARE PROVIDED FOR BASIS-OF-DESIGN LAYOUTS AND PERFORMANCE CRITERIA TO SUPPORT BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS, EQUIPMENT, PROGRAMMING, ACCESSORIES, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY INDICATED ON THE DRAWINGS.
5. ALL CONDUIT PASSING THROUGH FIRE-RATED WALL OR CEILINGS SHALL BE SEALED USING THE SAME UL LISTED ASSEMBLY BEING USED TO MAINTAIN THE SAME RATING OF THE WALL OR CEILING BEING PENETRATED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
6. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
7. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.

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FIRE ALARM SYSTEM FLOOR PLAN

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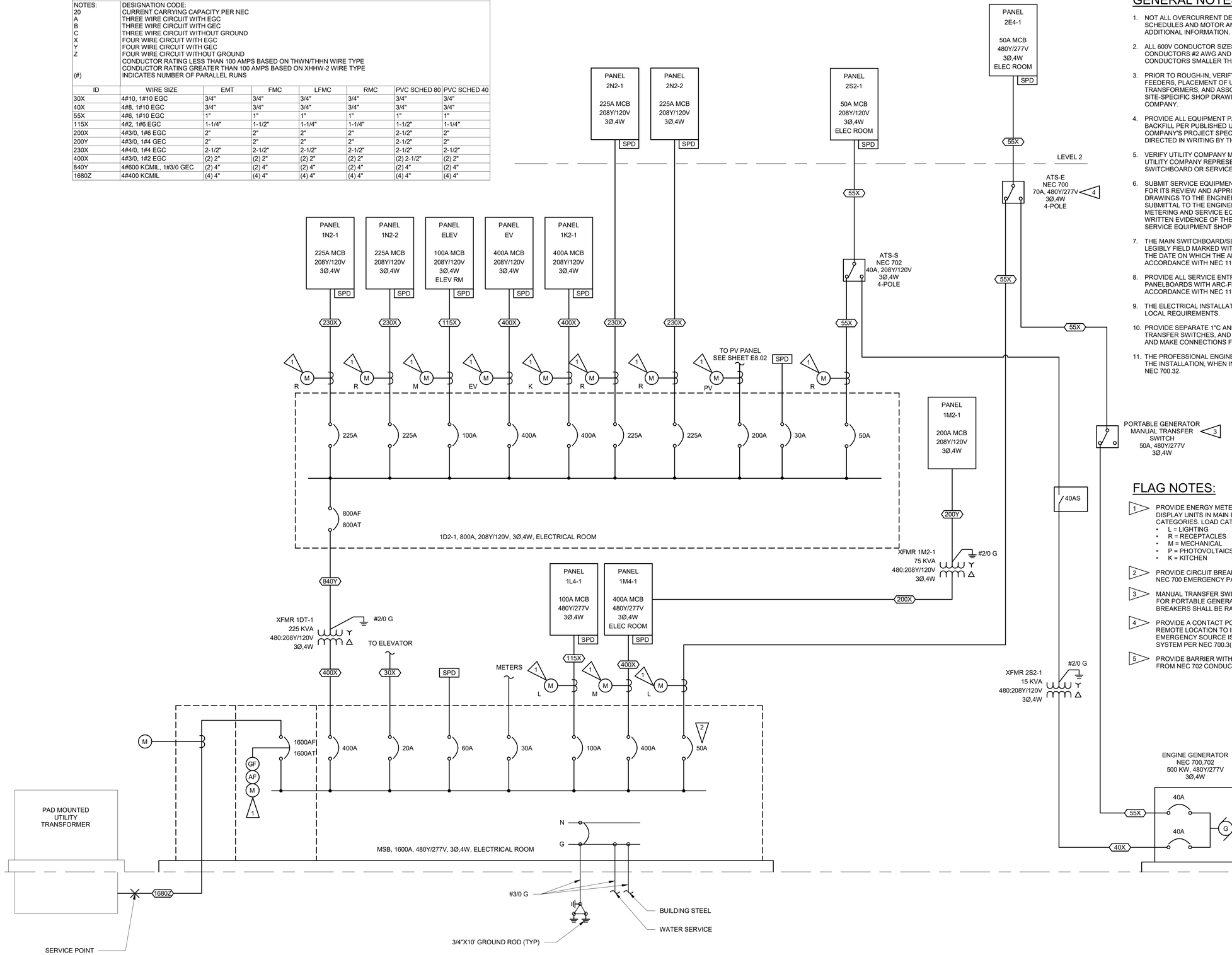
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CONDUIT AND WIRE SCHEDULE

NOTES:	DESIGNATION CODE:
20	CURRENT CARRYING CAPACITY PER NEC
A	THREE WIRE CIRCUIT WITH EGC
B	THREE WIRE CIRCUIT WITH GEC
C	THREE WIRE CIRCUIT WITHOUT GROUND
X	FOUR WIRE CIRCUIT WITH EGC
Y	FOUR WIRE CIRCUIT WITH GEC
Z	FOUR WIRE CIRCUIT WITHOUT GROUND
	CONDUCTOR RATING LESS THAN 100 AMPS BASED ON THWN/THHN WIRE TYPE
	CONDUCTOR RATING GREATER THAN 100 AMPS BASED ON XHHW-2 WIRE TYPE
(#)	INDICATES NUMBER OF PARALLEL RUNS

ID	WIRE SIZE	EMT	FMC	LFMC	RMC	PVC SCHED 80	PVC SCHED 40
30X	4#10, 1#10 EGC	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
40X	4#8, 1#10 EGC	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
55X	4#6, 1#10 EGC	1"	1"	1"	1"	1"	1"
115X	4#2, 1#6 EGC	1-1/4"	1-1/2"	1-1/4"	1-1/4"	1-1/2"	1-1/4"
200X	4#3/0, 1#6 EGC	2"	2"	2"	2"	2-1/2"	2"
200Y	4#3/0, 1#4 GEC	2"	2"	2"	2"	2-1/2"	2"
230X	4#4/0, 1#4 EGC	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"
400X	4#3/0, 1#2 EGC	(2) 2"	(2) 2"	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 2"
840Y	4#600 KCMIL, 1#3/0 GEC	(2) 4"	(2) 4"	(2) 4"	(2) 4"	(2) 4"	(2) 4"
1680Z	4#400 KCMIL	(4) 4"	(4) 4"	(4) 4"	(4) 4"	(4) 4"	(4) 4"



1 ELECTRICAL ONE-LINE DIAGRAM
NONE

GENERAL NOTES:

1. NOT ALL OVERCURRENT DEVICES SHOWN. REFER TO PANEL SCHEDULES AND MOTOR AND EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL INFORMATION.
2. ALL 600V CONDUCTOR SIZES ARE BASED UPON COPPER. ALL CONDUCTORS #2 AWG AND LARGER SHALL BE TYPE XHHW-2. ALL CONDUCTORS SMALLER THAN #2 AWG SHALL BE THHN/THWN.
3. PRIOR TO ROUGH-IN, VERIFY THE ACTUAL ROUTING OF UTILITY FEEDERS, PLACEMENT OF UTILITY-OWNED SWITCHGEAR, TRANSFORMERS, AND ASSOCIATED SERVICE EQUIPMENT WITH THE SITE-SPECIFIC SHOP DRAWINGS PREPARED BY THE ELECTRIC UTILITY COMPANY.
4. PROVIDE ALL EQUIPMENT PADS, CABLE VAULTS, TRENCHING AND BACKFILL PER PUBLISHED UTILITY COMPANY SPECIFICATIONS, UTILITY COMPANY'S PROJECT SPECIFIC SHOP DRAWINGS OR AS OTHERWISE DIRECTED IN WRITING BY THE UTILITY COMPANY REPRESENTATIVE.
5. VERIFY UTILITY COMPANY METERING REQUIREMENTS WITH THE UTILITY COMPANY REPRESENTATIVE BEFORE ORDERING MAIN SWITCHBOARD OR SERVICE-ENTRANCE RATED GEAR.
6. SUBMIT SERVICE EQUIPMENT SHOP DRAWINGS TO UTILITY COMPANY FOR ITS REVIEW AND APPROVAL PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWING SUBMITTAL TO THE ENGINEER SHALL INCLUDE UTILITY COMPANY METERING AND SERVICE EQUIPMENT REQUIREMENTS ALONG WITH WRITTEN EVIDENCE OF THE UTILITY COMPANY'S APPROVAL OF SERVICE EQUIPMENT SHOP DRAWINGS.
7. THE MAIN SWITCHBOARD/SERVICE ENTRANCE GEAR SHALL BE LEGIBLY FIELD MARKED WITH THE AVAILABLE FAULT CURRENT AND THE DATE ON WHICH THE AFC CALCULATION WAS PERFORMED IN ACCORDANCE WITH NEC 110.24.
8. PROVIDE ALL SERVICE ENTRANCE GEAR, SWITCHBOARDS, AND PANELBOARDS WITH ARC-FLASH HAZARD WARNING LABELS IN ACCORDANCE WITH NEC 110.16.
9. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL REQUIREMENTS.
10. PROVIDE SEPARATE 1"C AND CONDUCTORS BETWEEN GENERATOR, TRANSFER SWITCHES, AND ANNUNCIATOR PANEL FOR CONTROLS AND MAKE CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
11. THE PROFESSIONAL ENGINEER TAKES FULL RESPONSIBILITY THAT THE INSTALLATION, WHEN INSTALLED AS DESIGNED, COMPLIES WITH NEC 700.32.

FLAG NOTES:

1. PROVIDE ENERGY METER. NETWORK METERS TOGETHER. PROVIDE DISPLAY UNITS IN MAIN ELECTRICAL ROOM TO DISPLAY THE LOAD CATEGORIES. LOAD CATEGORIES ARE AS FOLLOWS:
   - L = LIGHTING
   - R = RECEPTACLES
   - M = MECHANICAL
   - P = PHOTOVOLTAICS
   - K = KITCHEN
2. PROVIDE CIRCUIT BREAKER TO SELECTIVELY COORDINATE WITH NEC 700 EMERGENCY PANEL.
3. MANUAL TRANSFER SWITCH SHALL BE PROVIDED WITH CAMLOCKS FOR PORTABLE GENERATOR CONNECTION. MOLDED CASE BREAKERS SHALL BE RATED FOR 50A.
4. PROVIDE A CONTACT POINT THAT SHALL ANNUNCIATE AT A REMOTE LOCATION TO INDICATE THAT THE PERMANENT EMERGENCY SOURCE IS DISCONNECTED FROM THE EMERGENCY SYSTEM PER NEC 700.3(F)(5).
5. PROVIDE BARRIER WITHIN GENERATOR TO SEPARATE NEC 700 FROM NEC 702 CONDUCTORS PER NEC 700.10(B).

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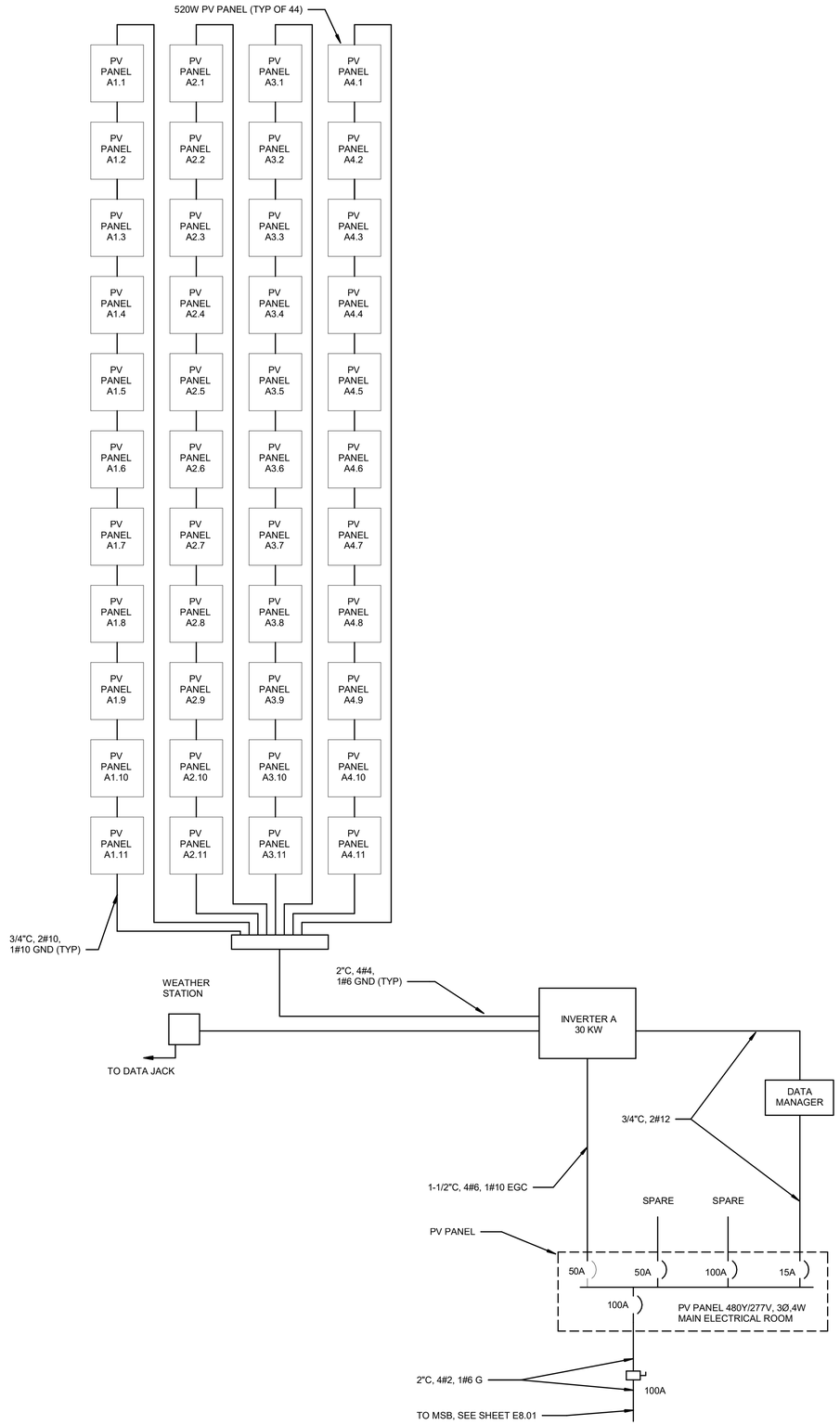
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ELECTRICAL DIAGRAMS

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1 PV RISER DIAGRAM
NONE

GENERAL NOTES:

1. NOT ALL OVERCURRENT DEVICES SHOWN. REFER TO PANEL SCHEDULES AND MOTOR AND EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL INFORMATION.
2. ALL 600V CONDUCTOR SIZES ARE BASED UPON COPPER. ALL CONDUCTORS #2 AWG AND LARGER SHALL BE TYPE XHHW-2. ALL CONDUCTORS SMALLER THAN #2 AWG SHALL BE THHN/THWN.
3. PRIOR TO ROUGH-IN, VERIFY THE ACTUAL ROUTING OF UTILITY FEEDERS, PLACEMENT OF UTILITY-OWNED SWITCHGEAR, TRANSFORMERS, AND ASSOCIATED SERVICE EQUIPMENT WITH THE SITE-SPECIFIC SHOP DRAWINGS PREPARED BY THE ELECTRIC UTILITY COMPANY.
4. PROVIDE ALL EQUIPMENT PADS, CABLE VAULTS, TRENCHING AND BACKFILL PER PUBLISHED UTILITY COMPANY SPECIFICATIONS, UTILITY COMPANY'S PROJECT SPECIFIC SHOP DRAWINGS OR AS OTHERWISE DIRECTED IN WRITING BY THE UTILITY COMPANY REPRESENTATIVE.
5. VERIFY UTILITY COMPANY METERING REQUIREMENTS WITH THE UTILITY COMPANY REPRESENTATIVE BEFORE ORDERING MAIN SWITCHBOARD OR SERVICE-ENTRANCE RATED GEAR.
6. SUBMIT SERVICE EQUIPMENT SHOP DRAWINGS TO UTILITY COMPANY FOR ITS REVIEW AND APPROVAL PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWING SUBMITTAL TO THE ENGINEER SHALL INCLUDE UTILITY COMPANY METERING AND SERVICE EQUIPMENT REQUIREMENTS ALONG WITH WRITTEN EVIDENCE OF THE UTILITY COMPANY'S APPROVAL OF SERVICE EQUIPMENT SHOP DRAWINGS.
7. THE MAIN SWITCHBOARD/SERVICE ENTRANCE GEAR SHALL BE LEGIBLY FIELD MARKED WITH THE AVAILABLE FAULT CURRENT AND THE DATE ON WHICH THE AFC CALCULATION WAS PERFORMED IN ACCORDANCE WITH NEC 110.24.
8. PROVIDE ALL SERVICE ENTRANCE GEAR, SWITCHBOARDS, AND PANELBOARDS WITH ARC-FLASH HAZARD WARNING LABELS IN ACCORDANCE WITH NEC 110.16.
9. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL REQUIREMENTS.
10. SOLAR PHOTOVOLTAIC (PV) DESIGN SHALL BE A SEPARATE DEFERRED SUBMITTAL. SOLAR PV EQUIPMENT AND DEVICES SHOWN ARE PROVIDED FOR BASIS-OF-DESIGN LAYOUTS AND PERFORMANCE CRITERIA TO SUPPORT BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS, EQUIPMENT, PROGRAMMING, ACCESSORIES, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, CODE-COMPLIANT, AND FULLY OPERATIONAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY INDICATED ON THE DRAWINGS.

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PV RISER DIAGRAM

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