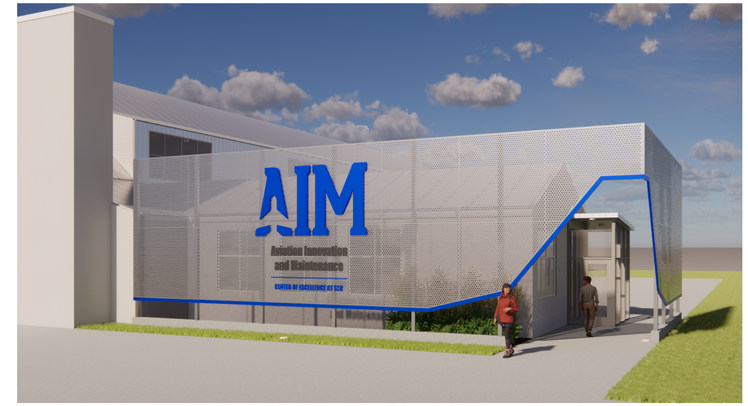
A REMODEL OF

AIM Center of Excellence at SLN

2625 Arnold Court — Salina, Kansas



Project Description

A REMODEL PROJECT OF A 1,025 SF TYPE V-B BUILDING IN SALINA, KS FOR THE SALINA AIRPORT AUTHORITY

General Information

THESE ARCHITECTURAL PLANS AND SPECIFICATIONS ADDRESS ONLY THOSE AREAS OF THE PROJECT INCLUDED THEREIN. TO EXECUTE THE COMPLETED PROJECT, THE GENERAL CONTRACTOR MUST COORDINATE THE ARCHITECTURAL PLANS WITH FIELD VERIFICATION OF ALL EXISTING MECHANICAL, PLUMBING AND ELECTRICAL TO INSURE NO CONFLICTS WITH THE PROPOSED REMODEL SO AS TO PROPERLY COMPLETE THE WORK DESCRIBED HEREIN.

ALL WORK SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, NFPA LIFE SAFETY CODE, PLUMBING CODE, MECHANICAL CODE, AND NATIONAL ELECTRICAL CODE IN THE CURRENTLY ADOPTED ADDITIONS AS WELL AS ALL OTHER ORDINANCE, LAWS, AND STATUTES OF THE CITY OF SALINA, KANSAS.

THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS, FIELD VERIFY ALL CRITICAL DIMENSIONS PRIOR TO ORDERING DIMENSION - SENSITIVE MATERIALS, AND REPORT TO THE ARCHITECT ANY ERROR, DISCREPANCY, OR OMISSION THE CONTRACTOR MAY DISCOVER IN THE PLANS.

THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. ALL DOCUMENTS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.

DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED AS "SHOP DRAWINGS" OR EXTENSIVELY DETAILED DOCUMENTS; THEY ARE INTENDED TO INDICATED THE GENERAL DESIGN CONCEPT OF THE PROJECT IN SUFFICIENT DETAIL THAT ALL WORK REQUIRED IS REASONABLY INFERABLE THEREFROM. CONTRACTOR SHALL PROVIDE ALL WORK THUS INDICATED WITH THE RESULTS OF COMPLETE, STRUCTURALLY SOUND, AESTHETICALLY DESIRABLE, DURABLE, PROPERLY PERFORMING WORK OF QUALITY. IN CASE OF AN INCONSISTENCY IN OR BETWEEN DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED WITHOUT CHANGE IN THE CONTRACT SUM.

ALL FINISHES, FIXTURES, MATERIALS, COLORS HARDWARE, AS WELL AS ALL OTHER ITEMS NOT EXPLICITLY CALLED OUT ON PLANS ARE TO BE SPECIFIED AND SELECTED BY OWNER AS AGREED. CONTRACTOR AND OWNER TO NOTIFY ARCHITECT OF SUCH ITEMS WHEN THEY ARE ENCOUNTERED.

AIA DOCUMENT A201, "GENERAL CONDITION OF THE CONTRACT FOR CONSTRUCTION" SHALL BE INCORPORATED INTO THE CONTRACT DOCUMENTS BY REFERENCE.

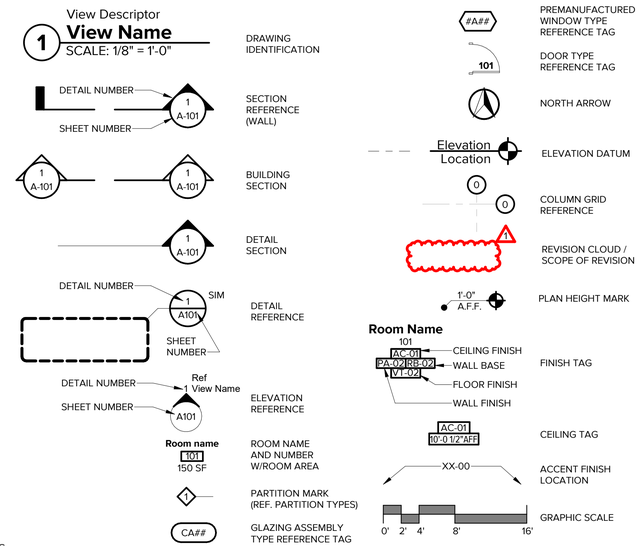
GENERAL CONTRACTOR AND ALL PRIMARY SUBCONTRACTORS ARE REQUIRED TO VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE RESTRICTIONS, ENVIRONMENT, AND PARAMETERS UNDER WHICH THE WORK IS TO BE EXECUTED PRIOR TO SUBMITTING ANY BID OR PROPOSAL FOR THE WORK. CONTACT THE OWNER'S REPRESENTATIVE FOR ACCESS TO THE SITE.

THESE DOCUMENTS HAVE BEEN PRODUCED EXCLUSIVELY FOR USE ON THIS PROJECT AND REMAIN THE INTELLECTUAL PROPERTY OF ARCHITECT ONE. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE AND DOING SO MAY DEEM THE AFFIXED PROFESSIONAL SEAL AND PERMITS GRANTED NULL AND VOID. THE ARCHITECT RETAINS ALL RIGHTS GRANTED TO HIM BY CREATION OF THESE DOCUMENTS.

Abbreviations

AB	ANCHOR BOLT
AC	ACOUSTICAL CEILING TILE SYSTEM
ACM	ALUMINUM COMPOSITE METAL
ACOUS	ACOUSTICAL
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURE/ARCHITECTURAL
ASPH	ASPHALT
B.O.	BOTTOM OF
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BR	BRICK/BEDROOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
CAB	CABINET
CEM	CEMENT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CM	CORRUGATED METAL
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CP	CARPET
CR	CHAIR RAIL
CT	CERAMIC TILE
D	DEPTH/DEEP
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EB	INTEGRAL EPOXY BASE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELECT	ELECTRIC/ELECTRICAL
ELEV	ELEVATION/ ELEVATOR
EMER	EMERGENCY
EP	EPOXY FLOORING
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
ESMT	EASEMENT
ETC	ET CETERA
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FFE	FURNITURE, FIXTURES & EQUIPMENT
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET/FOOT
FTG	FOOTING
FURN	FURNITURE/FURNACE
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GR	GRANITE
GS	GLASS TILE
GT	GRANITE TILE
GYP BD	GYPSUM BOARD
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HWY	HIGHWAY
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IN OR "	INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IT	INFORMATION TECHNOLOGY
J-BOX	JUNCTION BOX
JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT
LN	LINOLEUM
LP	LOW POINT
LR	LIVING ROOM
LT	LIGHT
LVL	LEVEL
M	MIRROR
MAINT	MAINTENANCE
MAX	MAXIMUM
MB	MARBLE
MECH	MECHANICAL
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM/MINUTE
MISC	MISCELLANEOUS
ML	METAL LAMINATE
MO	MASONRY OPENING
MP	METAL PAN CEILING
MR	MOISTURE RESISTANT
MSRY	MASONRY
MT	MARBLE TILE
MTD	MOUNTED
MTL	METAL
MTRL	MATERIAL
MW	MICROWAVE
N	NORTH
NA OR N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANT
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHANG/OVERHEAD
OLF	OCCUPANCY LOAD FACTOR
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
PA	PAINT
PC	PRECAST
PEMB	PRE-ENGINEERED METAL BUILDING
PERF	PERFORATED
PL	PLATE/PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	POINT
PR	PAIR
PREFIN	PREFINISHED
PREP	PREPARATION/PREPARED
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED/PORCELAIN TILE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
QT	QUARRY TILE
R	RANGE/RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RC	RUBBER COVE BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE OR REF	REFERENCE
RECPT	RECEPTACLE
REINF	REINFORCING
REQ'D	REQUIRED/REQUIREMENTS
RESIL	RESILIENT
RET	RESTROOM
REV	REVISION
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RT	RUBBER TILE
RTU	ROOF TOP UNIT
S	SOUTH
SC	SOLID CORE/STAINED CONCRETE
SCHD	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SN	STAIN
SND	SANITARY NAPKIN DISPOSAL
SPECS	SPECIFICATIONS
SPR	SPRINKLERS
SQ	SQUARE
SR	SEALED CONCRETE
SS	SOLID SURFACE
ST	STONE & STONE VENEER/STREET
ST STL	STAINLESS STEEL
STD	STANDARD
STF	STOREFRONT
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL/STRUCTURE
SUSP	SUSPENDED
SV	SHEET VINYL
T	TEMPERED
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
T.O.	TOP OF
TB	TOWEL BAR
TEL	TELEPHONE
THK	THICK
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TR	TREADS
TS	TUBE STEEL
TT	TERRAZZO TILE
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZZO
V	VOLT/VOLTAGE
VB	VINYL BASE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VL	VINYL LAMINATE FLOORING
VNR	VENEER
VOC	VOLATILE ORGANIC COMPOUND
VT	VINYL COMPOSITION TILE
W	WEST/WIDE
W/	WITH
W/I	WITHIN
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET/VINYL WALL COVERING
WD	WOOD/SOLID WOOD FLOORING
WDW	WINDOW
WH	WATER HEATER
WL	WOOD LAMINATE FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD
YR	YEAR

Symbol Legend



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E202	Classroom Lighting Elevations	

PROJECT SUBMITTED AS ATTACHMENT TO SALINA PERMIT NUMBER 230546

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A REMODEL OF
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PROJECT NUMBER:	23-133
PROJECT ARCHITECT:	SEG
PROJECT MANAGER:	ADT
DRAWN BY:	MGL
CHECKED BY:	SEG
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

Cover Sheet

HANGAR 626

SHEET NUMBER

O001.2

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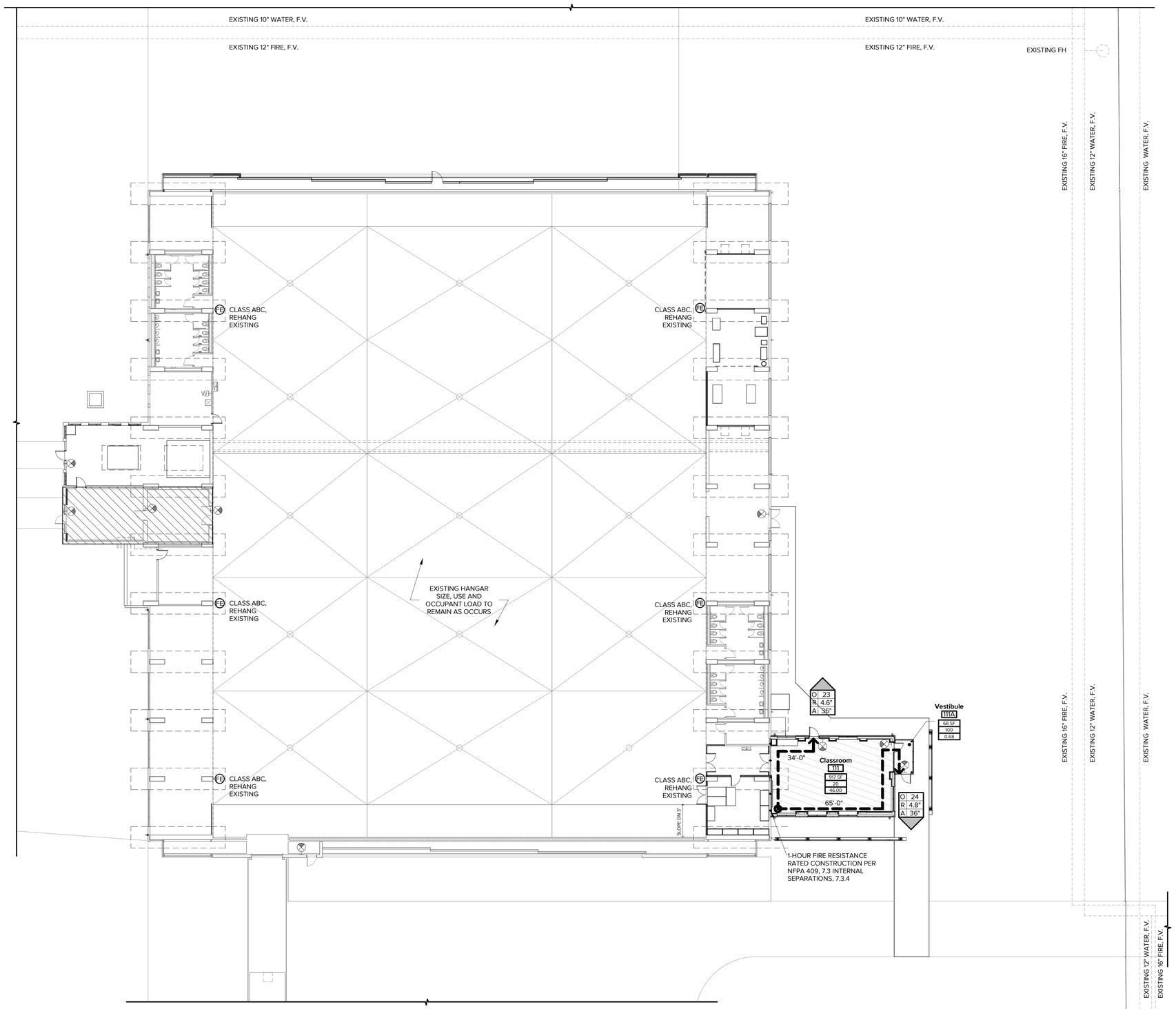

1 **Code Plan**
SCALE: 1/16" = 1'-0"

0' 8' 16' 32'

Project Information

PROJECT DESCRIPTION:
REMODEL OF AN EXISTING SIDE WING INTO A TRAINING CLASSROOM

APPLICABLE BUILDING CODES:
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL FIRE CODE
CHAPTER 20: AVIATION FACILITIES
2011 NATIONAL ELECTRICAL CODE
2012 UNIFORM MECHANICAL CODE
2012 UNIFORM PLUMBING CODE
2010 NFPA 11: LOW-, MEDIUM- AND HIGH EXPANSION FOAM SYSTEMS
2010 NFPA 11-A: MEDIUM- AND HIGH-EXPANSION FOAM SYSTEMS
2010 NFPA 13: SPRINKLER SYSTEMS
2010 NFPA 16: INSTALLATION OF FOAM-WATER SYSTEMS
2010 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE
2011 NFPA 409: AIRCRAFT HANGARS
2011 NFPA 410: AIRCRAFT MAINTENANCE

BUILDING DATA:

OCCUPANCY	SEPARATED MIXED USE S-1 - MOD. HAZ. STORAGE: AIRCRAFT HANGAR STORAGE & REPAIR B - BUSINESS 1 HOUR SEPARATION REQ.
CONSTRUCTION TYPE	V-B (UNLIMITED AREA PER IBC 507.3)
FIRE DISTRICT	CITY OF SALINA, KS
AREA	1,025 SF REMODELED AREA OF A 46,982 SF TOTAL BUILDING

LIFE SAFETY SYSTEMS:

EMERGENCY LIGHTS	YES
EXIT SIGNS	YES
FIRE ALARM	YES
SMOKE DETECTION	YES
PANIC HARDWARE	YES
AUTO AIR SHUTOFF	TBD
FIRE EXTINGUISHERS	YES
SPRINKLER SYSTEM	YES

STRUCTURAL FIRE PROTECTION (IBC TABLE 601 & 508.3.3)

TYPE V-B	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HR	0 HR
EXTERIOR BEARING WALLS	0 HR	0 HR
INTERIOR BEARING WALLS	0 HR	0 HR
NON-BEARING WALLS	0 HR	0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR
ELEVATOR SHAFT AND STAIRWELLS	0 HR	0 HR
CORRIDOR/HALLS	0 HR	0 HR

Area Calculations

B - OCCUPANCY

ALLOWABLE AREA PER FLOOR	9,000 SF
ALLOWABLE HEIGHT (X-STORY)	2 STORIES
ALLOWABLE HEIGHT (FEET)	40 FT
AREA PROVIDED	1,025 SF
STORIES PROVIDED	1 STORY
BUILDING HEIGHT	SAME AS ABOVE
MAXIMUM FLOOR AREA PER OCCUPANT	
TOTAL OCCUPANT LOAD	47 OCCUPANTS

Plumbing Information

PREVIOUS REMODEL PROJECT OF HANGAR 626 REQUIRED 2 TOTAL WATER CLOSETS. PROJECT PROVIDED 22 WATER CLOSETS AND 8 URINALS.

PREVIOUS REMODEL PROJECT OF HANGAR 626 REQUIRED 2 TOTAL LAVATORIES. PROJECT PROVIDED 8 LAVATORIES.

PREVIOUS REMODEL PROJECT OF HANGAR 626 REQUIRED 2 TOTAL DRINKING FOUNTAINS. PROJECT PROVIDED 4 DRINKING FOUNTAINS.

THE EXISTING BUILDING HAS CODE COMPLIANT CAPACITY TO ABSORB THIS REMODEL PROJECT'S USE AND OCCUPANT LOAD IN BOTH WATER CLOSETS, LAVATORIES, AND DRINKING FOUNTAINS.

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04.11.2024
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Salina, Kansas

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REVISIONS

SHEET TITLE

Code Floor Plan

HANGAR 626

SHEET NUMBER

O101.2

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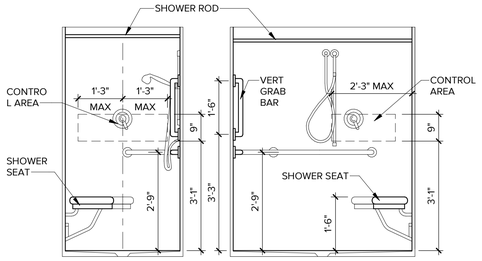
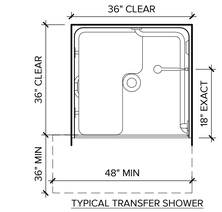


TYPICAL TRANSFER SHOWER

TYPICAL ROLL IN SHOWER



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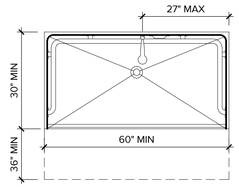
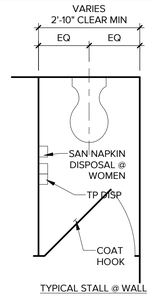
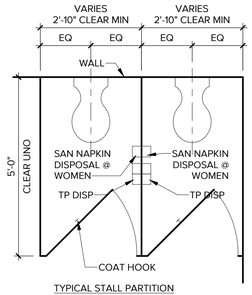


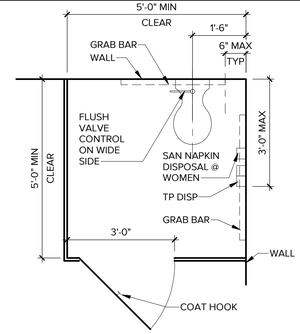
TYPICAL ROLL IN SHOWER



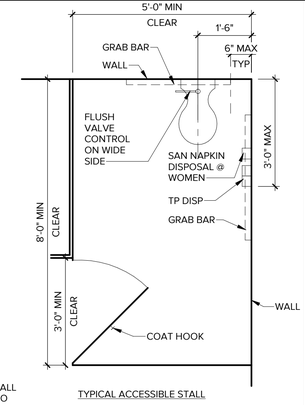
TYPICAL STALL @ WALL



TYPICAL STALL PARTITION



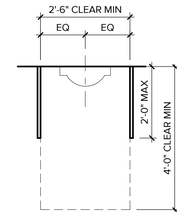
TYPICAL ACCESSIBLE STALL



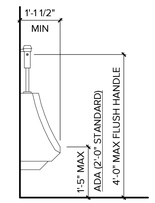
TYPICAL ACCESSIBLE STALL

ADA Restroom Requirements

1. PROVIDE A MECHANICAL EXHAUST SYSTEM CAPABLE OF PROVIDING 50 CFM AND TO BE VENTED TO THE OUTSIDE AT A POINT AT LEAST 5 FEET FROM ANY OPERABLE DOOR OR WINDOW.
2. PROVIDE A 42" 1 1/2" dia. GRAB BAR AT THE SIDE OF THE TOILET EXTENDING AT LEAST 24" IN FRONT OF THE EDGE OF THE ELONGATED BOWL STOOL, AND A 36" LONG GRAB BAR CENTERED BEHIND THE TOILET. BOTH BARS SHALL BE SET AT 34" A.F.F.
3. THE TOILET SHALL HAVE AN ELONGATED BOWL AND THE SEAT SHALL HAVE A HEIGHT OF 19" ABOVE THE FLOOR AND CENTERED 18" FROM THE FINISHED FACE OF THE SIDE WALL. TOILET CONTROLS SHALL BE OPERABLE FROM THE SIDE OF THE FIXTURE AWAY FROM THE WALL.
4. LAVATORIES SHALL MEET THE FOLLOWING CRITERIA - EXCEPT FOR THE PROJECTION OF THE BOWL AND WATER PIPING - A CLEAR, UNOBSTRUCTED SPACE 30" IN WIDTH, 29" IN HEIGHT, AND 17" IN DEPTH SHALL BE PROVIDED UNDERNEATH THE LAVATORY. HOT WATER AND WASTE LINES SHALL BE INSULATED SO AS TO PREVENT BURNING WHEN CONTACTED. BOWL SHALL BE CENTERED NO CLOSER THAN 15" FROM THE FINISHED FACE OF THE ADJACENT WALL.
5. THE REST ROOM SHALL HAVE A TOILET PAPER DISPENSER, AND SHALL HAVE A PAPER TOWEL DISPENSER, MIRROR, AND TRASH CONTAINER WITHIN 40" ABOVE THE FLOOR.
6. THE DOOR ENTERING THE REST ROOM (AS WELL AS ALL PUBLIC ACCESS DOORS) SHALL HAVE 'LEVER TYPE' HARDWARE.
7. THE INTERNATIONAL HARDWARE SYMBOL SHALL BE POSTED AT THE ENTRY DOORS AND ON THE LATCH SIDE WALL ADJACENT TO THE REST ROOM DOOR, CENTERED AT 60" ABOVE FINISHED FLOOR - MIN. CHARACTER HEIGHT 3".
8. ALL OPERATION CONTROLS WITHIN THE REST ROOM ARE TO BE HANDICAPPED OR "PADDLE" TYPE FIXTURES.
9. PROVIDE A SEAMLESS VINYL FLOOR COVERING W/ 6" VINYL BASE.
10. PROVIDE SOLID WOOD BLOCKING IN WALLS AT ALL LOCATIONS OF WEIGHT BEARING FIXTURES AND ACCESSORIES, TYPICAL.

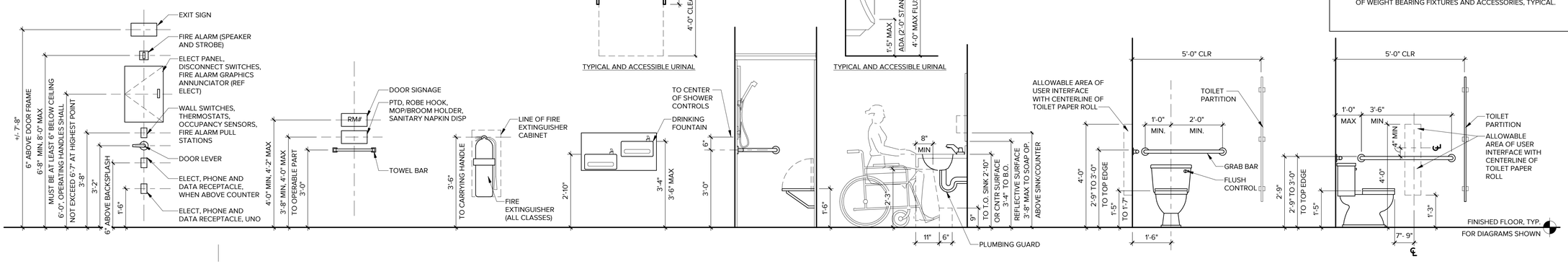


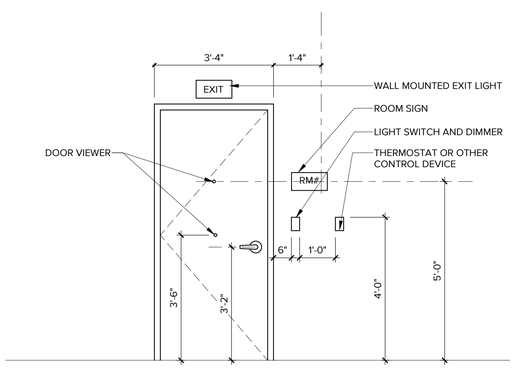
TYPICAL AND ACCESSIBLE URINAL



TYPICAL AND ACCESSIBLE URINAL

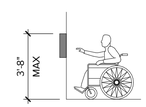
NOTE: CONTRACTOR TO PROVIDE BLOCKING @ ALL GRAB BARS, TYP AND ALL DIMENSIONS ARE FROM FIN FACE, UNO





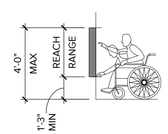
ADA Mounting Heights

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



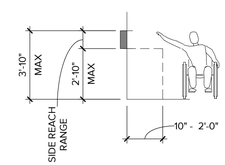
Obstructed Forward Reach

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



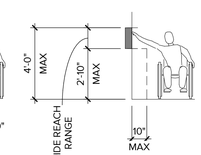
Unobstructed Forward Reach

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



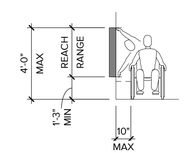
Obstructed Side Reach

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



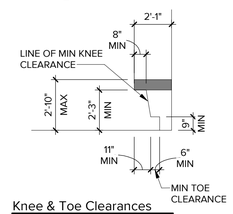
Obstructed Side Reach

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



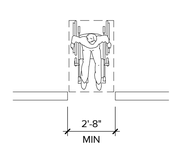
Unobstructed Side Reach

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



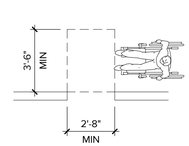
Knee & Toe Clearances

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



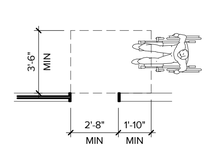
Front Approach (No Door)

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



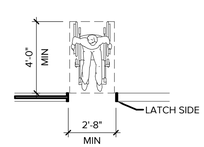
Side Approach (No Door)

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



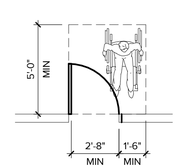
Side Approach (sliding/bifold)

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



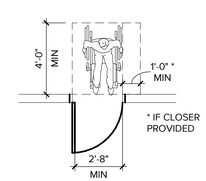
Front Approach (sliding/bifold)

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



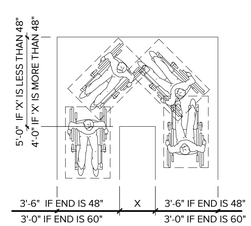
Front Approach (Pull Side)

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



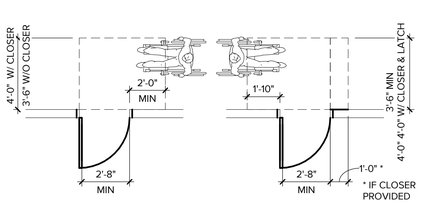
Front Approach (Push Side)

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



Turns Around an Obstruction

SECTION 4.13 - ADAAG-2010
SECTION 403.5.1 - ANSI A117.1-2003

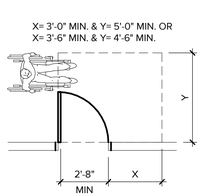


Side Approach (Latch/Push Side)

SECTION 4.13 - ADAAG-2010
SECTION 4.13.6 - UFAS
SECTION 404.2.3.1 - ANSI A117.1-2003

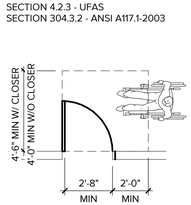
Side Approach (Hinge/Push Side)

SECTION 4.13 - ADAAG-2010
SECTION 4.13.6 - UFAS
SECTION 404.2.3.1 - ANSI A117.1-2003



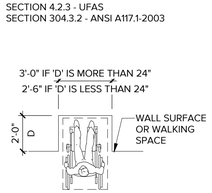
Side Approach (Hinge/Pull Side)

SECTION 4.13 - ADAAG-2010
SECTION 4.13.6 - UFAS
SECTION 404.2.3.1 - ANSI A117.1-2003



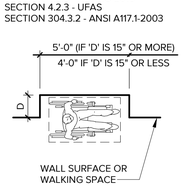
Side Approach (Latch/Pull Side)

SECTION 4.13 - ADAAG-2010
SECTION 4.13.6 - UFAS
SECTION 404.2.3.1 - ANSI A117.1-2003



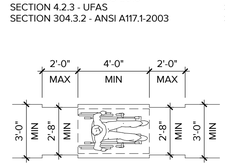
Forward Approach in Alcove

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003



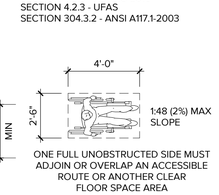
Side Approach in Alcove

SECTION 4.2 - ADAAG-2010
SECTION 4.2.4.2 - UFAS
SECTION 305.7.1 - ANSI A117.1-2003



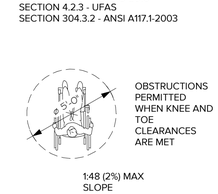
Minimum Clear Width for Single Wheelchair

SECTION 4.2.1 - ADAAG-2010
SECTION 4.2.1 - UFAS
SECTION 403.5 - ANSI A117.1-2003



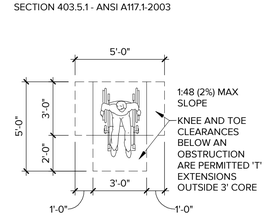
Typical Clear Floor Space Requirements

SECTION 4.2 - ADAAG-2010
SECTION 4.2.4.1 - UFAS
SECTION 305 - ANSI A117.1-2003



Circular Turning Radius

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.1 - ANSI A117.1-2003



T-Shaped Turning Radius

SECTION 4.2.3 - ADAAG-2010
SECTION 4.2.3 - UFAS
SECTION 304.3.2 - ANSI A117.1-2003

Typical ADA Reach Ranges & Clearances

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

Architect One
Topeka
Manhattan
Kansas City
785.271.7010
www.ao.design

SCOTT E. GALES LICENSED A4126 KANSAS ARCHITECT 04.11.2024

AIM Center of Excellence at SLN

2625 Arnold Court

Salina, Kansas

PROJECT NUMBER:	23-133
PROJECT ARCHITECT:	SEG
PROJECT MANAGER:	ADT
DRAWN BY:	ADT, MGL, KPR
CHECKED BY:	MAE
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

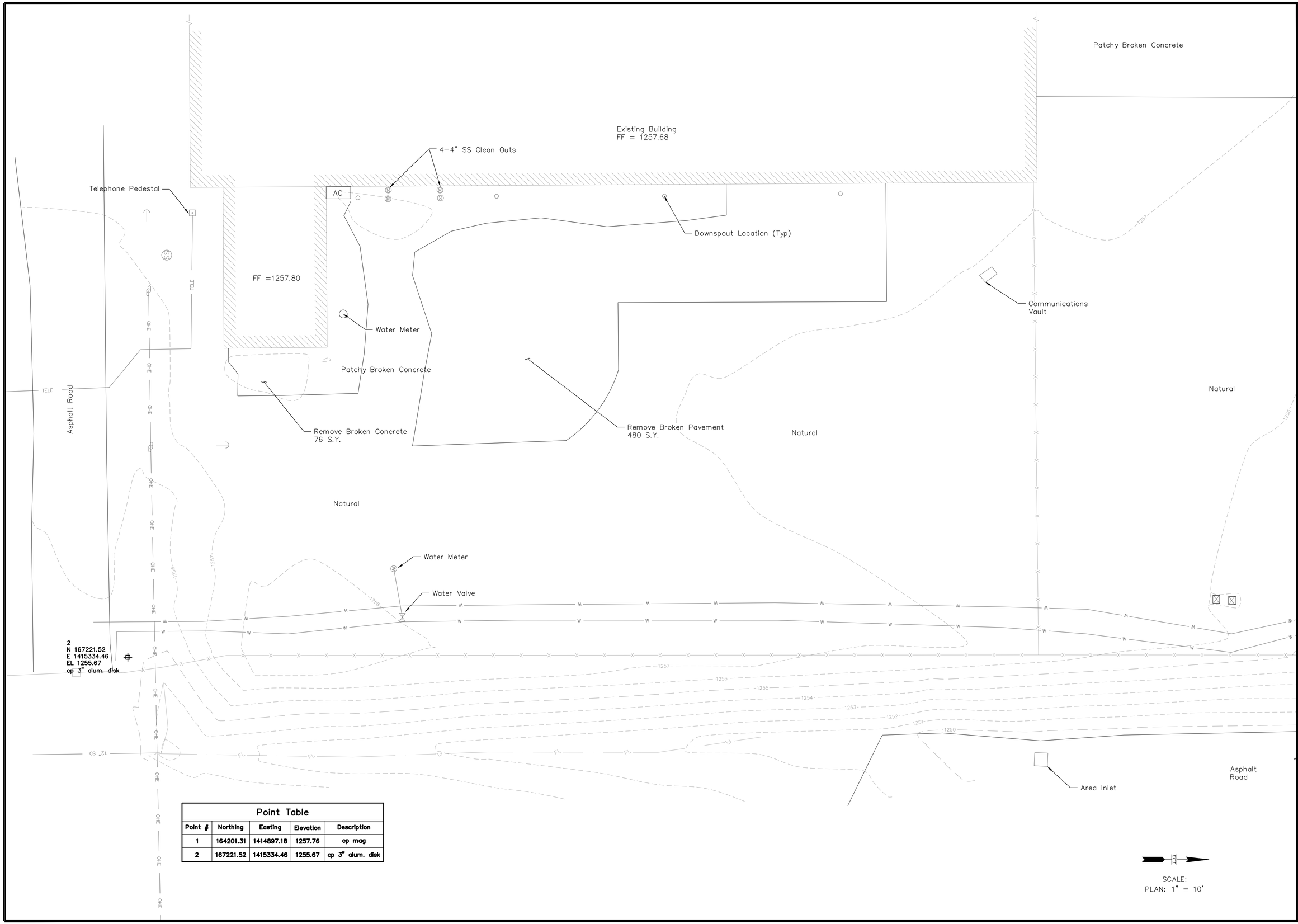
ADA Design Guidelines

HANGAR 626

SHEET NUMBER

O111.2

Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-133 Salina Airport Authority Aim Center_v23.rvt



Point Table				
Point #	Northing	Easting	Elevation	Description
1	164201.31	1414897.18	1257.76	cp mag
2	167221.52	1415334.46	1255.67	cp 3" alum. disk

REVISIONS

NO.	DATE	DESCRIPTION

EARLES ENGINEERING & INSPECTION, INC.
Civil & Structural Engineers
Construction Inspectors-Surveyors
Email: earlesinc@earleseng.com

SALINA AIRPORT HANGAR #626

SITE REMOVAL

CITY OF SALINA

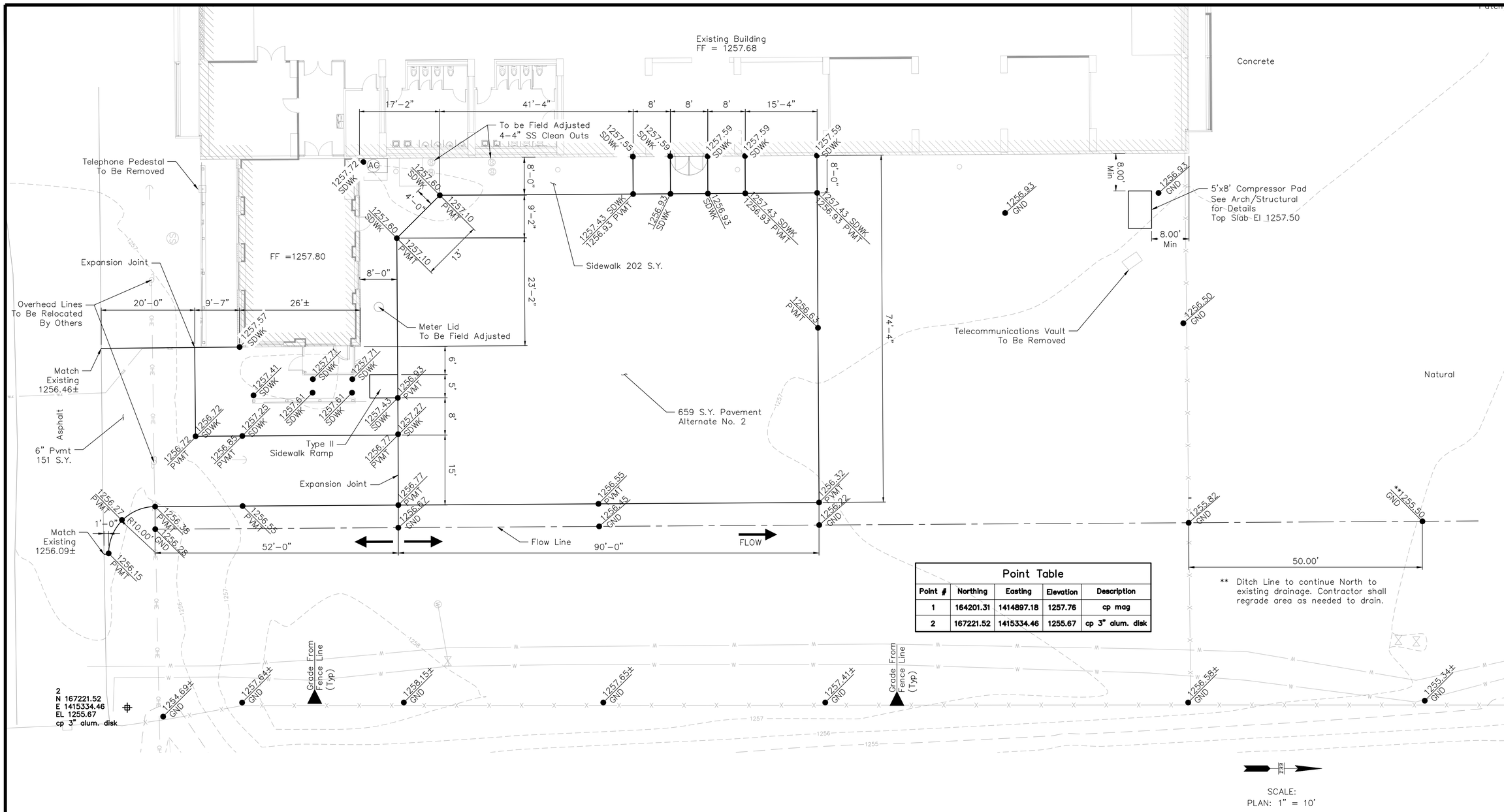
KANSAS

JEFFREY S. MILLS
22403
3/29/24
KANSAS
PROFESSIONAL ENGINEER

ENGINEER: JSM
CHECKED BY: JSM
DRAWN BY: TGS
DATE: 3/29/24
PROJECT NO: 24-05
SHEET: C1 of

Revised By: TSTITHEM
Plotted: 3/29/2024 10:26 AM

Filename: 24-05 SURVEY.DWG
File Location: F:\2024\24-05 SAA Hangar 626\Survey\Drawings



Point Table

Point #	Northing	Easting	Elevation	Description
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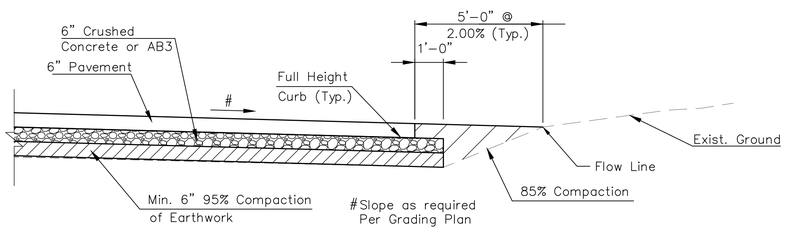
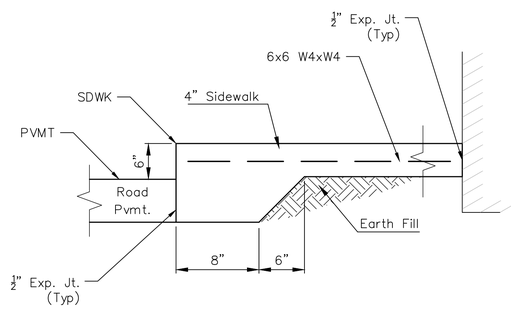
2	167221.52	1415334.46	1255.67	cp 3" alum. disk

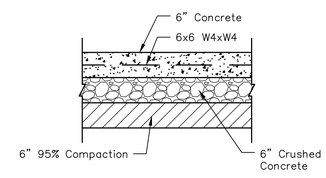


TYPICAL PAVEMENT SECTION
Not To Scale

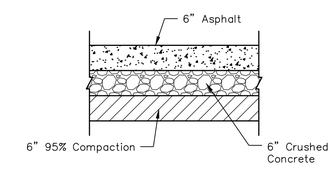


SIDEWALK W/PROTECTION CURB DETAIL
Not To Scale

NOTE: Bidder to provide pricing for both pavement options.



TYPICAL PAVEMENT– CONCRETE OPTION
Not to Scale



TYPICAL PAVEMENT– ASPHALT OPTION
Not to Scale

REVISIONS

NO.	DATE	DESCRIPTION

EARLES ENGINEERING & INSPECTION, INC.
Civil & Structural Engineers
Construction Inspectors–Surveyors
Email: earlesinc@earleseng.com

SALINA AIRPORT HANGAR #626

GRADING PLAN

KANSAS

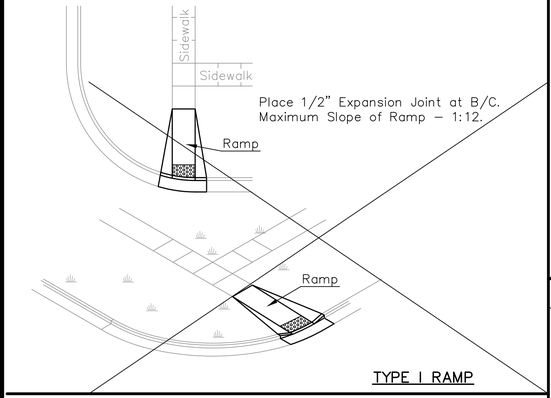
CITY OF SALINA

JEFFREY S. MILLS
22403
4/9/24
KANSAS
PROFESSIONAL ENGINEER

ENGINEER: JSM
CHECKED BY: JSM
DRAWN BY: TGS
DATE: 4/9/24
PROJECT NO: 24-05
SHEET: C2 of

Revised By: TSTITHEM
Plotted: 4/9/2024 3:57 PM

Filename: GRADING PLAN OPTION 2.DWG
File Location: F:\2024\24-05 SAA Hangar 626\Survey\Drawings



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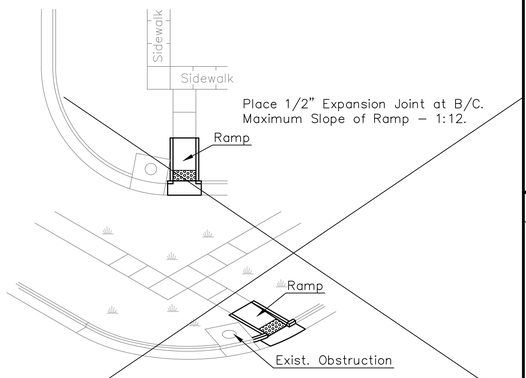
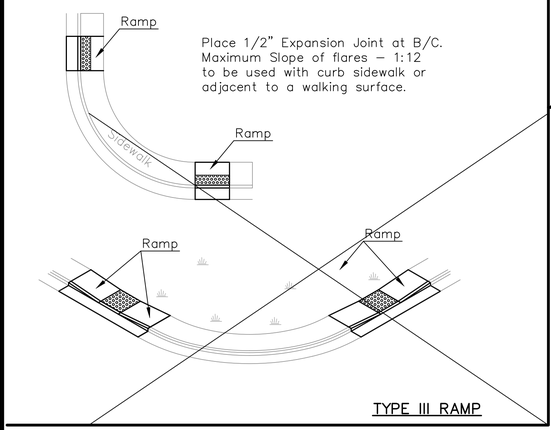


TYPE II RAMP



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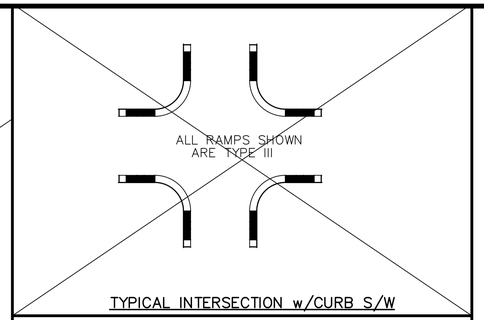
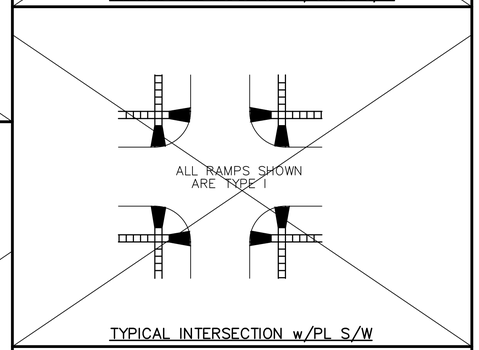
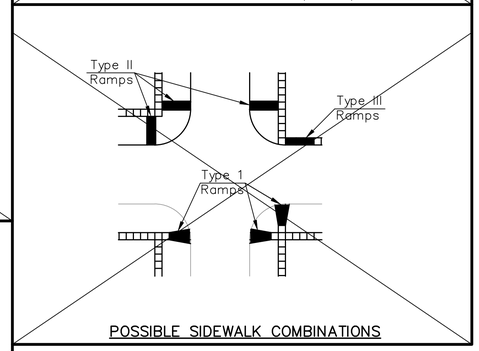


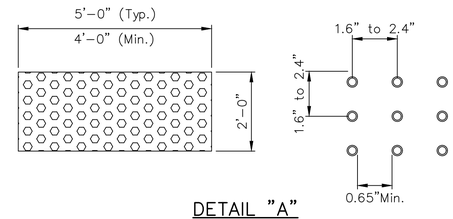
TYPICAL INTERSECTION w/CURB S/W



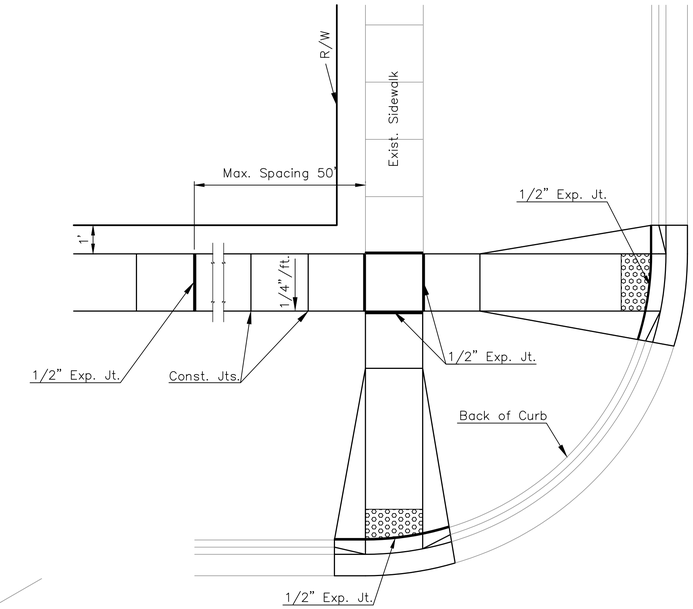
TYPICAL INTERSECTION w/PL S/W



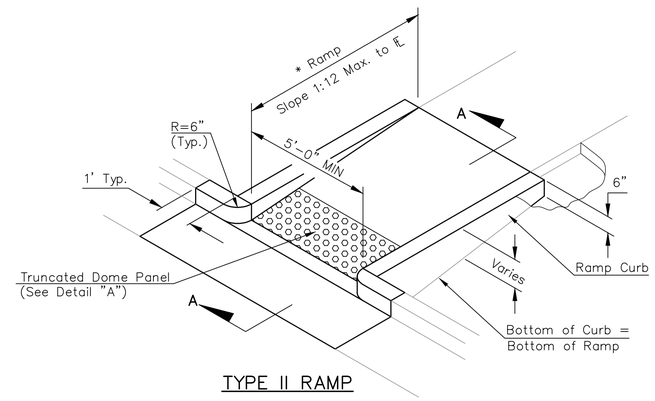
POSSIBLE SIDEWALK COMBINATIONS



DETAIL "A"



SIDEWALK DETAILS



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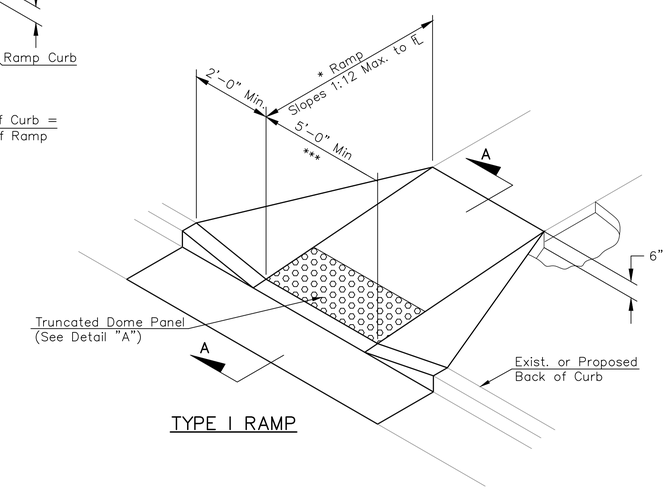
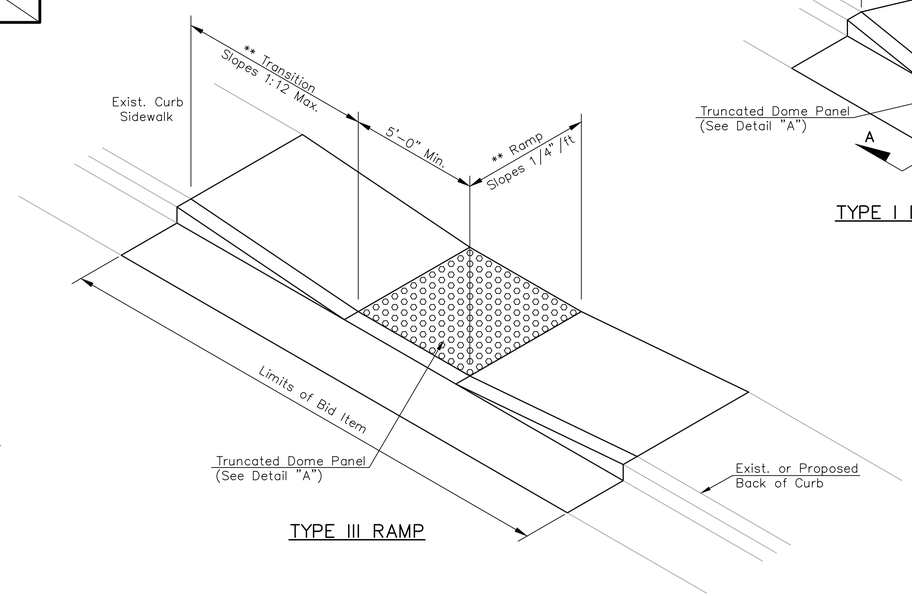


TYPE I RAMP



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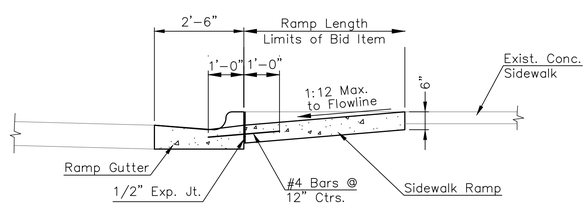

SECTION A–A

LEGEND

* Ramp length will be determined by slope grade

** Ramp and Curb Transition will be determined by slope grade

REVISIONS		
NO.	DATE	DESCRIPTION

EARLES ENGINEERING & INSPECTION, INC.
Civil & Structural Engineers
Construction Inspectors–Surveyors
Email: earlesinc@earleseng.com

SALINA AIRPORT HANGAR #626

SIDEWALK RAMP DETAILS

CITY OF SALINA KANSAS

JEFFREY S. MILLS LICENSED 22403 KANSAS PROFESSIONAL ENGINEER

ENGINEER:	JSM
CHECKED BY:	JSM
DRAWN BY:	TGS
DATE:	4/9/24
PROJECT NO:	24–05
SHEET:	C3 of

Revised By: TSTITHEM
Plotted: 4/9/2024 1:12 PM

Filename: D-SIDEWALK.DWG
File Location: F:\2024\24-05 SAA Hangar 626\Civil\Drawings\Plan Set

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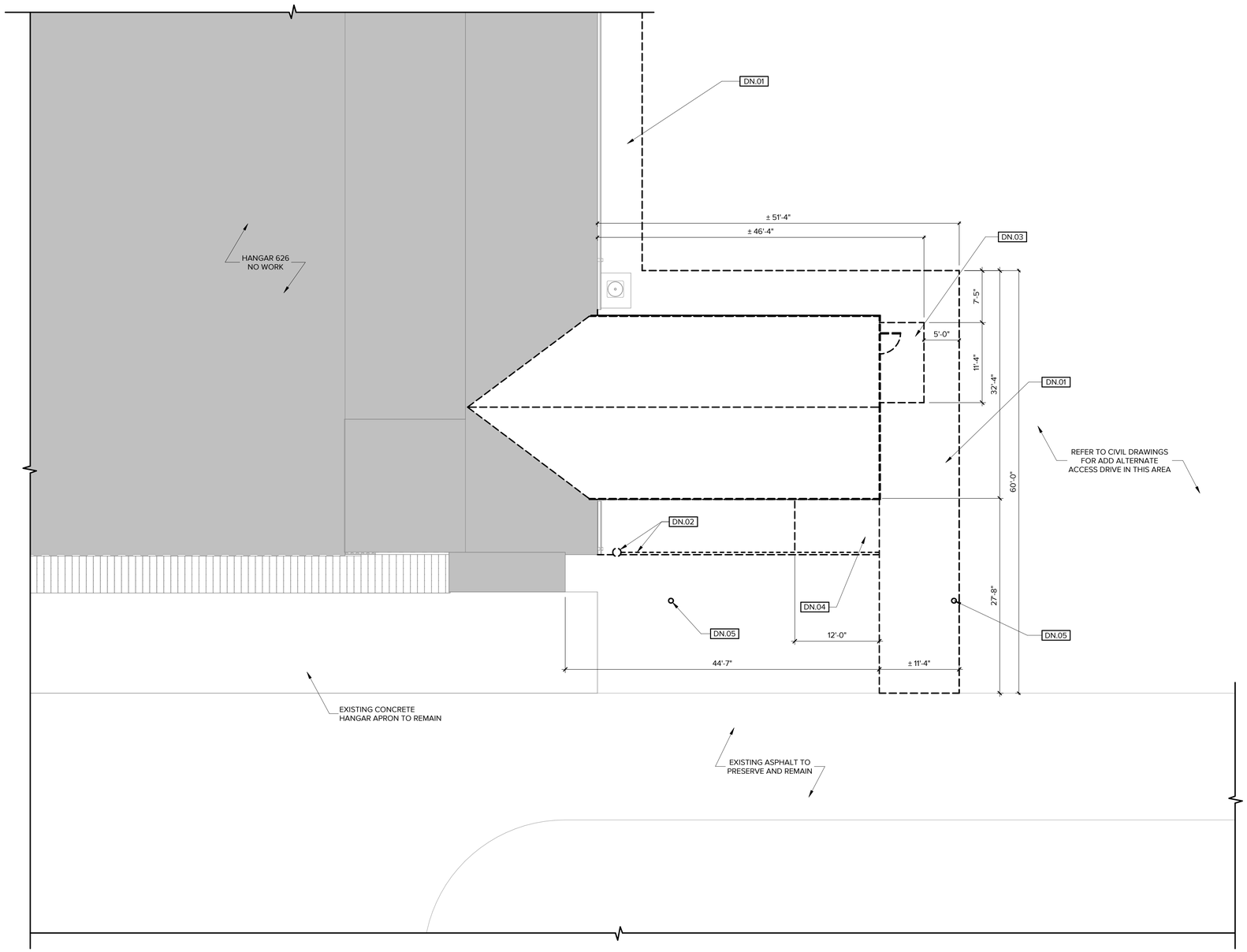

1 Demolition Site Plan

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

General Site Demolition Notes

1. THE GENERAL CONTRACTOR (GC) IS ADVISED THAT THE BUILDING OWNER WILL CONTINUE TO CONDUCT BUSINESS THROUGHOUT THE COURSE OF THE WORK.
2. AT THE END OF WORK EACH DAY, DEMOLITION CONTRACTOR IS TO CLEAN UP ALL DEBRIS, MATERIALS, OR OTHER DISTURBED CONDITIONS IN THE COMMON OR PUBLIC USE AREAS WHICH ARE A RESULT OF THE DEMOLITION WORK. LOCATION OF ON SITE DUMPSTER, AND REMOVAL OF ALL DEMOLITION MATERIAL TO BE AT TIMES AND THROUGH MEANS AS APPROVED BY OWNER.
3. DEMOLITION CONTRACTOR IS REQUIRED TO VISIT THE LOCATION OF THE WORK AND BECOME FAMILIAR WITH THE PARAMETERS, CONDITIONS, AND CONSTRAINTS UNDER WHICH THE WORK IS TO BE EXECUTED SUCH THAT THERE ARE NO QUESTIONS IN THEIR MIND REGARDING THE SCOPE OF THE WORK REQUIRED TO COMPLETE ALL WORK INDICATED ON THE PLANS OR REQUIRED TO COMPLETELY REMOVE ALL MATERIAL REQUIRED TO FACILITATE THE NEW WORK AS PER THE PLANS.
4. CONFIRM WITH OWNER THAT ANY ADDITIONAL ELEMENTS TO BE SALVAGED NOT IDENTIFIED HEREIN HAVE BEEN FLAGGED APPROPRIATELY FOR THE DEMOLITION CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.

Demolition Site Keynotes

DN.01	REMOVE PORTION OF SOD IN PREPARATION FOR NEW CONCRETE WALK, REF CIVIL DRAWINGS
DN.02	REMOVE ABANDONED TELECOM PEDESTAL AND UNDERGROUND LINE IN PREP. FOR NEW CONCRETE FOOTINGS
DN.03	REMOVE PORTION OF SOD IN PREPARATION FOR NEW CONCRETE SLAB
DN.04	SOD TO REMAIN AND PREPARE FOR NEW LANDSCAPING AREA
DN.05	OWNER TO RELOCATE EXISTING UTILITY POLE AND GUY WIRE(S)

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Salina, Kansas

PROJECT NUMBER:	23-133
PROJECT ARCHITECT:	SEG
PROJECT MANAGER:	ADT
DRAWN BY:	ADT, MGL, KPR
CHECKED BY:	ADT
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

Demolition Site Plan

HANGAR 626

SHEET NUMBER

D001.2

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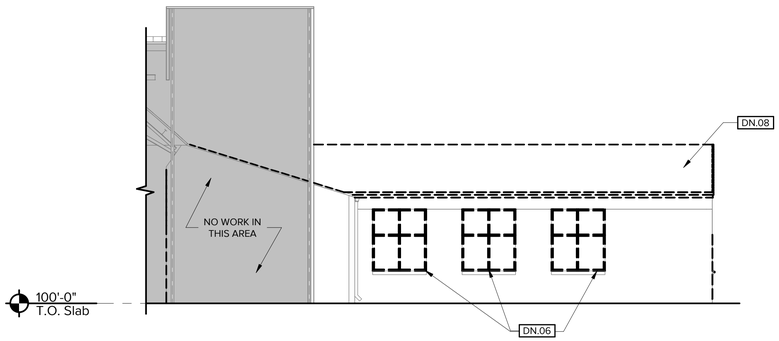
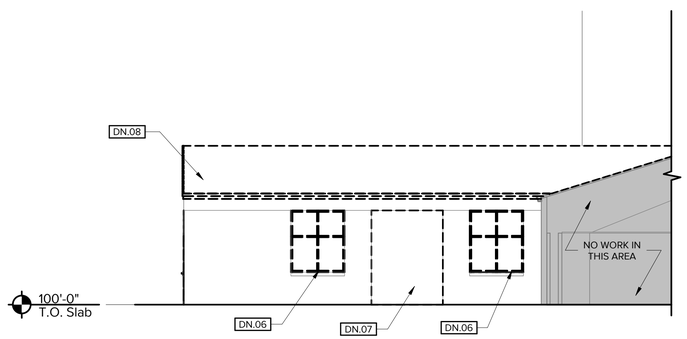
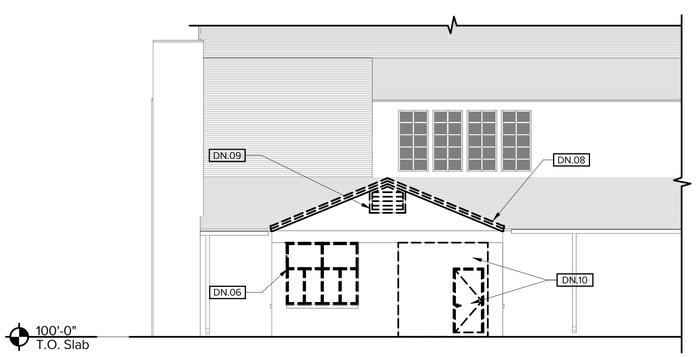


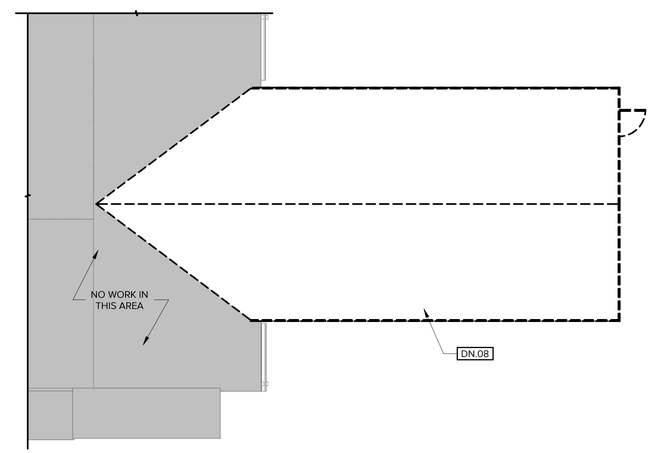
SOUTH
5 Demolition Elevation
SCALE: 1/8" = 1'-0"



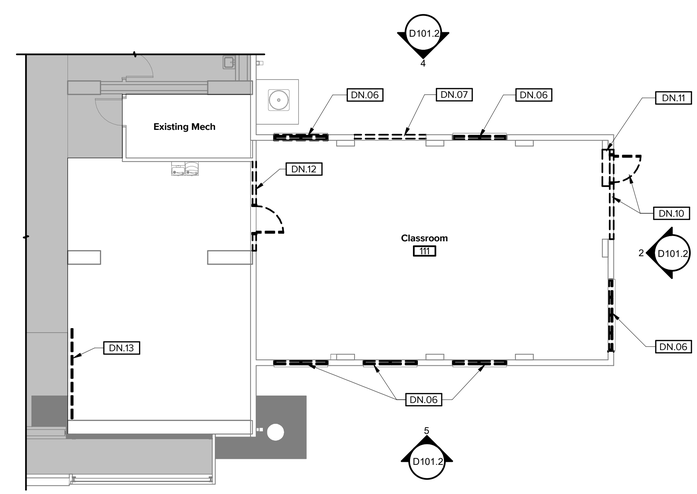
NORTH
4 Demolition Elevation
SCALE: 1/8" = 1'-0"



EAST
2 Demolition Elevation
SCALE: 1/8" = 1'-0"



3 Demolition Roof Plan
SCALE: 1/8" = 1'-0"



FIRST FLOOR
1 Demolition Plan
SCALE: 1/8" = 1'-0"

General Demolition Notes

1. THE GENERAL CONTRACTOR (GC) IS ADVISED THAT THE BUILDING OWNER WILL CONTINUE TO CONDUCT BUSINESS THROUGHOUT THE COURSE OF THE WORK.
2. CONFIRM WITH OWNER THAT ANY ADDITIONAL ELEMENTS TO BE SALVAGED NOT IDENTIFIED HEREIN HAVE BEEN FLAGGED APPROPRIATELY FOR THE DEMOLITION CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. REMOVE ALL WALLS, CEILINGS, DOORS, FRAMES, ETC. INDICATED AND SALVAGE MATERIALS FOR REUSE TO THE EXTENT PRACTICAL.
4. REMOVE AND CAP ALL WATER, WASTE, GAS, ELECTRICAL CONDUIT, AND ANY OTHER LINES NO LONGER TO BE USED TO 1" BELOW TOP OF CONCRETE SLAB. TERMINATE ANY ROOF PENETRATION LINES 6" BELOW ROOF DECK - DO NOT REMOVE ANY EXISTING, OR CREATE ANY NEW ROOF PENETRATIONS AS PART OF THE DEMOLITION WORK.
5. AT THE END OF WORK EACH DAY, DEMOLITION CONTRACTOR IS TO CLEAN UP ALL DEBRIS, MATERIALS, OR OTHER DISTURBED CONDITIONS IN THE COMMON OR PUBLIC USE AREAS WHICH ARE A RESULT OF THE DEMOLITION WORK. LOCATION OF ON SITE DUMPSTER, AND REMOVAL OF ALL DEMOLITION MATERIAL TO BE AT TIMES AND THROUGH MEANS AS APPROVED BY OWNER.
6. DEMOLITION CONTRACTOR IS REQUIRED TO VISIT THE LOCATION OF THE WORK AND BECOME FAMILIAR WITH THE PARAMETERS, CONDITIONS, AND CONSTRAINTS UNDER WHICH THE WORK IS TO BE EXECUTED SUCH THAT THERE ARE NO QUESTIONS IN THEIR MIND REGARDING THE SCOPE OF THE WORK REQUIRED TO COMPLETE ALL WORK INDICATED ON THE PLANS OR REQUIRED TO COMPLETELY REMOVE ALL MATERIAL REQUIRED TO FACILITATE THE NEW WORK AS PER THE PLANS.

Demolition Keynotes

DN.06	REMOVE GLAZING ASSEMBLY AND PREPARE OPENING FOR NEW WINDOW
DN.07	REMOVE PORTION OF WALL AND PREPARE OPENING FOR NEW CONSTRUCTION
DN.08	REMOVE EXISTING ASPHALTIC ROOFING, METAL EAVE AND RAKE TRIM, WOOD FASCIA, AND ANY UNDERLAYMENT. PRESERVE AND PROTECT EXISTING 1X DECKING
DN.09	REMOVE GABLE VENT AND PREPARE OPENING FOR WALL INFILL
DN.10	REMOVE PORTION OF WALL AND DOOR AND PREPARE OPENING FOR NEW GLAZING ASSEMBLY
DN.11	REMOVE CONCRETE RAMP/SILL AT EXISTING ENTRY DOOR
DN.12	REMOVE TEMPORARY WALL AND DOOR. SALVAGE DOOR TO OWNER
DN.13	REMOVE GUARDRAIL AND SALVAGE TO OWNER

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04.11.2024
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ARCHITECT

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2625 Arnold Court
Salina, Kansas

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PROJECT MANAGER:	ADT
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CHECKED BY:	MAE
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

Demolition Floor Plan, Roof and Exterior Elevations

HANGAR 626

SHEET NUMBER

D101.2

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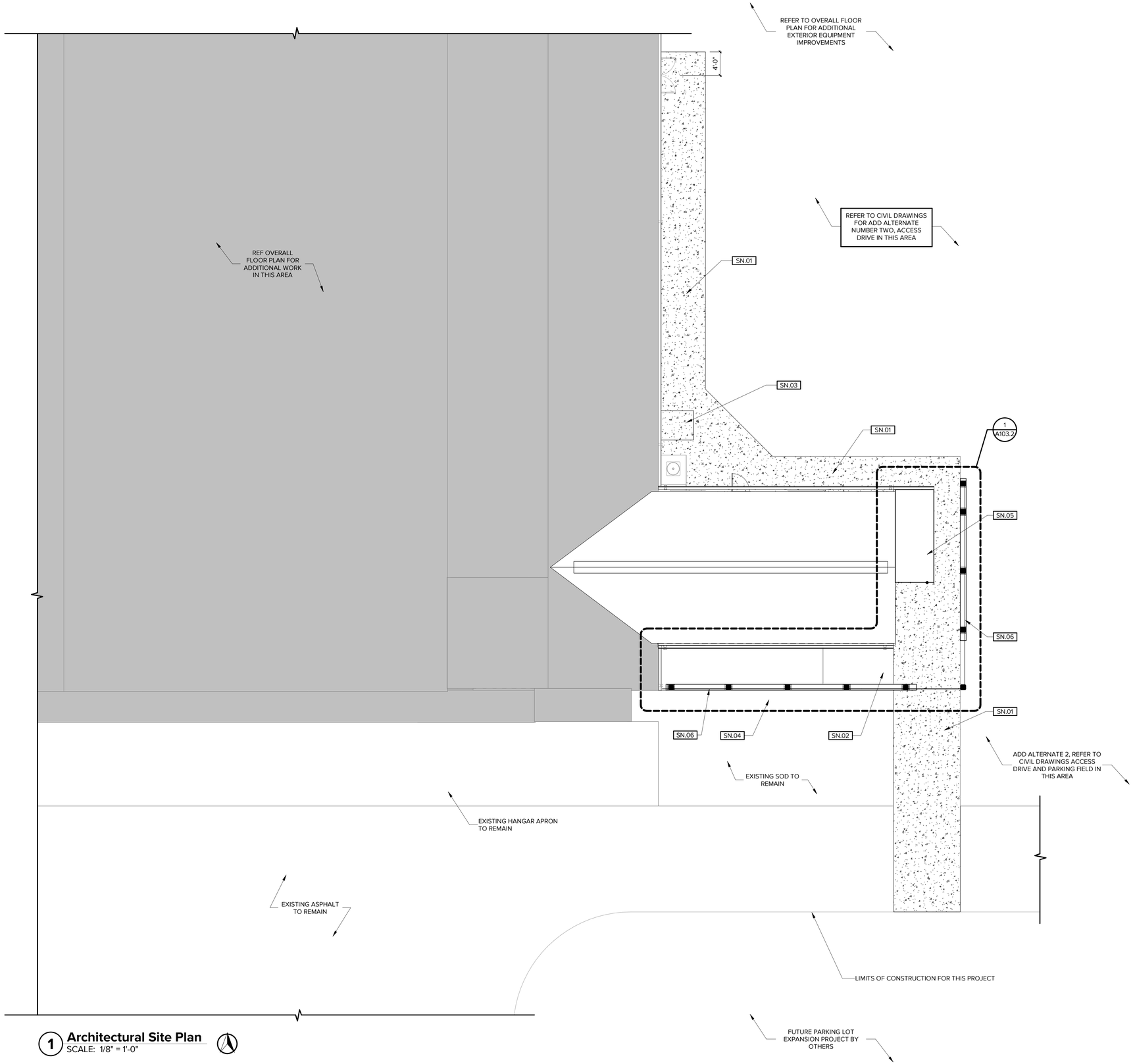

1 **Architectural Site Plan**
SCALE: 1/8" = 1'-0"

General Site Notes

1. FIELD VERIFY UTILITY LOCATIONS BEFORE COMMENCEMENT OF WORK DESCRIBED HEREIN.
2. UPON FINISH GRADING, REMOVE EXCESS TOPSOIL AND EXCAVATED SUBGRADE MATERIAL FROM SITE.
3. SHOULD A GEOLOGIST DETERMINE THAT ADDITIONAL MATERIAL MUST BE REMOVED AND NEW MATERIAL IN EXCESS OF THAT SPECIFIED BE BROUGHT IN, PROVIDE A UNIT COST FIGURE PER CUBIC YARD OF MATERIAL REMOVED AND BROUGHT IN.
4. ALL APPROACHES, WALKS, DRIVES AND OTHER PAVED SURFACES INSTALLED IN PUBLIC RIGHT-OF-WAYS TO BE IN COMPLIANCE WITH THE STANDARDS OF CITY OF SALINA.
5. NO GEOTECHNICAL REPORT HAS BEEN PROVIDED TO THE ARCHITECT. CONTACT THE ARCHITECT IF CONDITIONS APPEAR TO BE OTHER THAN INDICATED.
6. DO NOT SCALE DRAWINGS TO LOCATE UTILITES. UTILITES ARE SHOWN FOR GENERAL REFERENCE FROM THE CITY OF SALINA GIS WEBSITE.

Site Plan Keynotes

SN.01	WWF REINFORCED 4" CONCRETE WALK W/ BROOM FINISH, REF CIVIL FOR ADDITIONAL INFORMATION, DIMENSIONS, AND ELEVATIONS
SN.02	AREA OF NEW LANDSCAPING
SN.03	NEW CONCRETE PAD FOR CONDENSER UNIT, REF MECHANICAL DRAWINGS FOR UNIT SPECIFICATIONS
SN.04	AREA OF NEW SOD
SN.05	NEW ENTRY VESTIBULE ADDITION
SN.06	NEW PERFORATED METAL SCREEN ON STEEL STRUCTURAL FRAME AND CONCRETE FOOTINGS

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REVISIONS

SHEET TITLE

Architectural Site Plan

HANGAR 626

SHEET NUMBER

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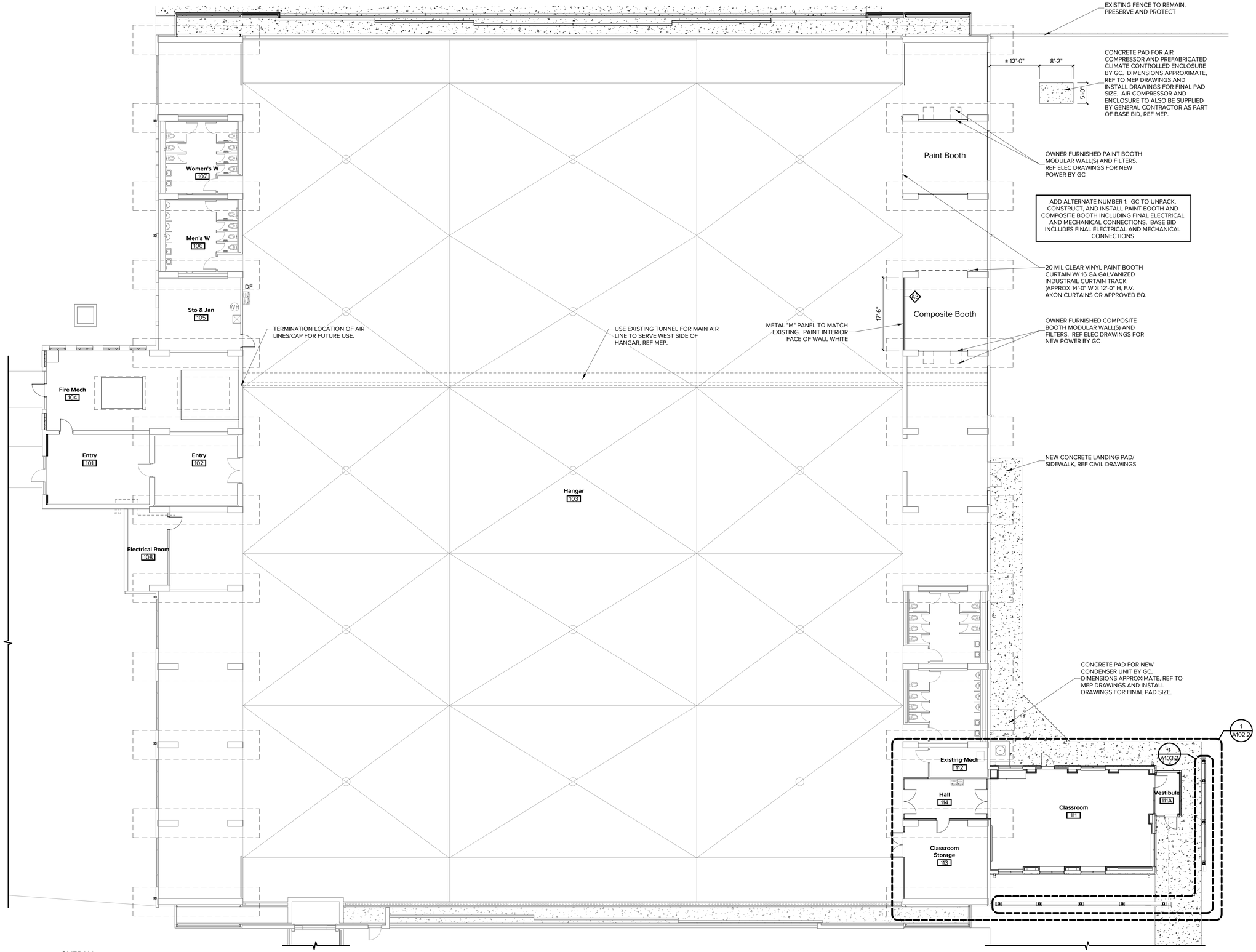

1 OVERALL
Floor Plan
SCALE: 3/32" = 1'-0"

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SHEET TITLE

Overall Floor Plan

HANGAR 626

SHEET NUMBER

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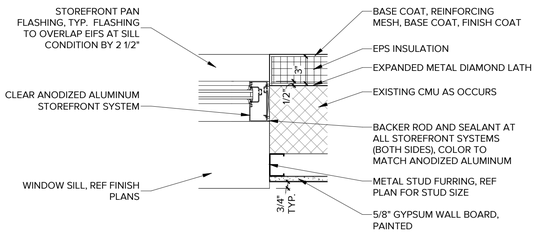
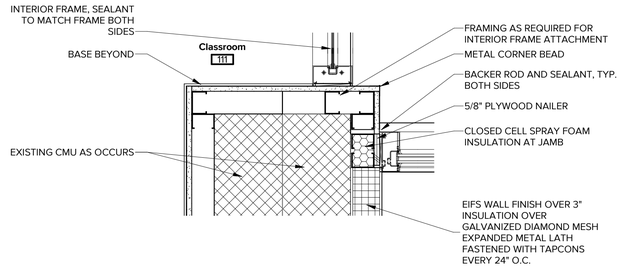
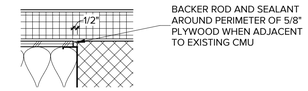


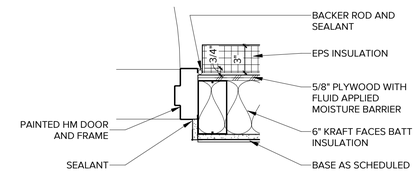
STOREFRONT JAMB AT EIFS
4 Plan Detail
SCALE: 1 1/2" = 1'-0"



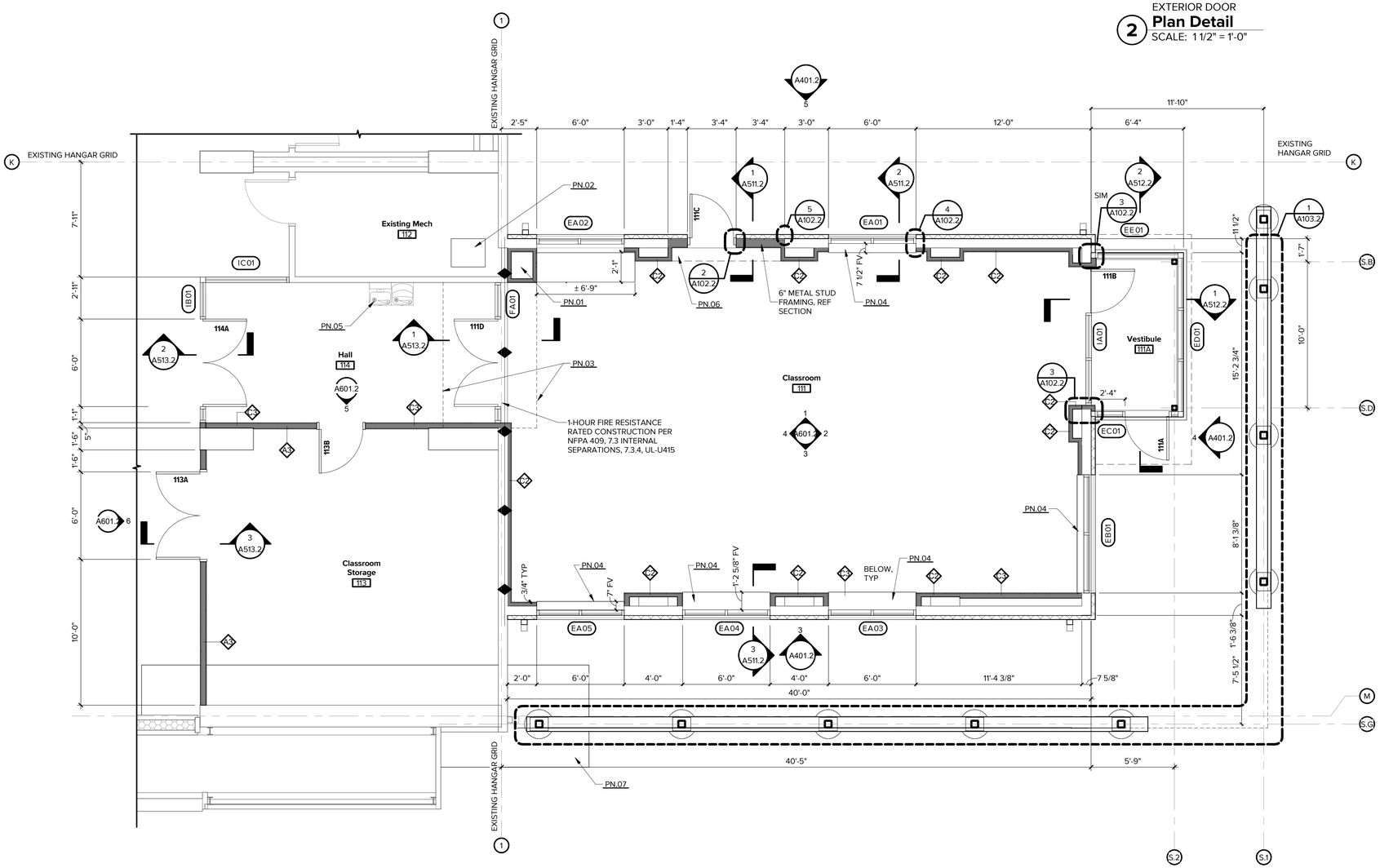
3 Plan Detail
SCALE: 1 1/2" = 1'-0"



5 Plan Detail
SCALE: 1 1/2" = 1'-0"



EXTERIOR DOOR
2 Plan Detail
SCALE: 1 1/2" = 1'-0"



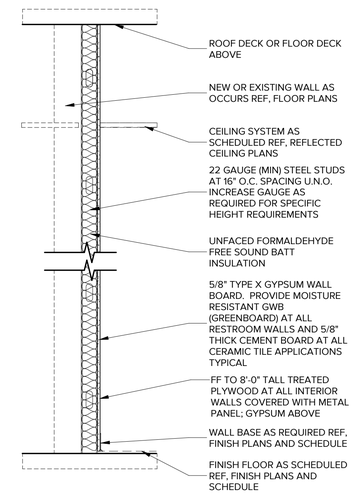
1 Floor Plan
SCALE: 1/4" = 1'-0"

General Floor Plan Notes

1. ALL DIMENSIONS ARE FROM FACE OF STUD UNLESS NOTED OTHERWISE.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK OR ORDERING DIMENSIONALLY SENSITIVE MATERIALS.
3. WHERE DIMENSIONS ARE NOT EXPLICITLY CALLED OUT CONTACT THE ARCHITECT FOR CLARIFICATION.
4. ALL MATERIALS, FIXTURES, FINISHES, AND COLORS TO BE SELECTED BY OWNER AND ARCHITECT. WHERE COLOR FINISHES OR TEXTURES ARE NOT EXPLICITLY CLARIFIED, ARCHITECT AND OWNER MAY SELECT FROM CONTRACTOR SUPPLIED SAMPLES OF SPECIFIED PRODUCT.
5. ALL CONTRACTORS ARE REQUIRED TO VISIT THE LOCATION OF THE WORK AND BECOME FULLY ACQUAINTED WITH THE SCOPE, REQUIREMENTS, PARAMETERS, AND CONDITIONS OF THE WORK AND UNDER WHICH IT MUST BE EXECUTED SUCH THAT THERE ARE NO QUESTIONS IN THEIR MIND AS TO THE FULL EXTENT OF THEIR RESPONSIBILITIES.
6. ALL INTERIOR DOORS TO BE LOCATED 4 1/2" FROM ADJACENT WALL FRAMING UNLESS NOTED OTHERWISE.
7. MAINTAIN 18" MIN CLEAR DIMENSION FROM DOOR FRAME NEAREST HARDWARE TO ADJACENT WALL ON HINGE SIDE OF DOOR.
8. MAINTAIN 12" MIN CLEAR DIMENSION FROM DOOR FRAME NEAREST HARDWARE TO ADJACENT WALL WHERE DOOR HAS BOTH A LATCH & CLOSER.

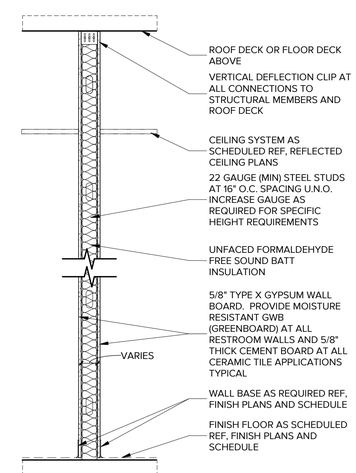
Floor Plan Keynotes

PN.01	MECHANICAL CHASE, REF MECH.
PN.02	NEW FURNACE, REF MECH.
PN.03	SOFFIT AND MECHANICAL CHASE OVERHEAD, REF MECH AND REFLECTED CEILING PLAN
PN.04	WINDOW SILL, REF FINISH PLAN
PN.05	EXISTING DRINKING FOUNTAIN TO REMAIN, PRESERVE AND PROTECT
PN.06	PATCH AREA OF CONCRETE FLOOR PRIOR TO APPLICATION OF CONCRETE PRIMER AND EPOXY FLOOR SURFACE
PN.07	PIER RESTS ON EXISTING FOOTING, REF STRUCTURAL



PARTITION TYPE C
FULL HEIGHT METAL STUD FURRING
FULL HEIGHT GYPSUM WALL BOARD (ONE SIDE)

C2 2-1/2" METAL STUD
C3 3-5/8" METAL STUD



PARTITION TYPE A
FULL HEIGHT METAL STUD
FULL HEIGHT GYPSUM WALL BOARD (EA. SIDE)

A3 3-5/8" METAL STUD

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PROJECT NUMBER:	23-133
PROJECT ARCHITECT:	SEG
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REVISIONS

SHEET TITLE

Floor Plan, Partition Types & Plan Details

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SHEET NUMBER

A102.2

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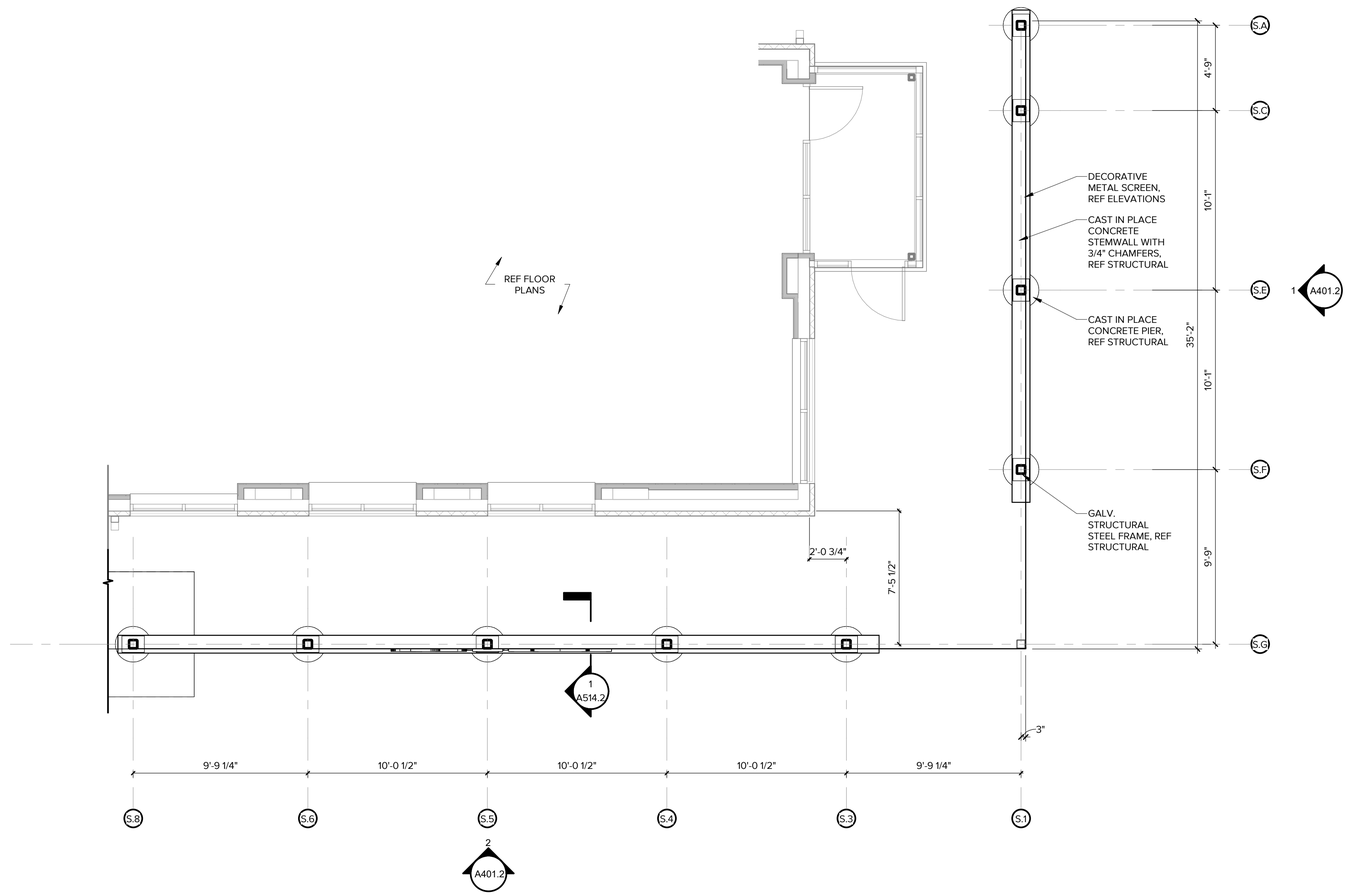

DECORATIVE METAL SCREEN

1 **Floor Plan**

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

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SHEET TITLE

Decorative Metal Screen

HANGAR 626

SHEET NUMBER

A103.2

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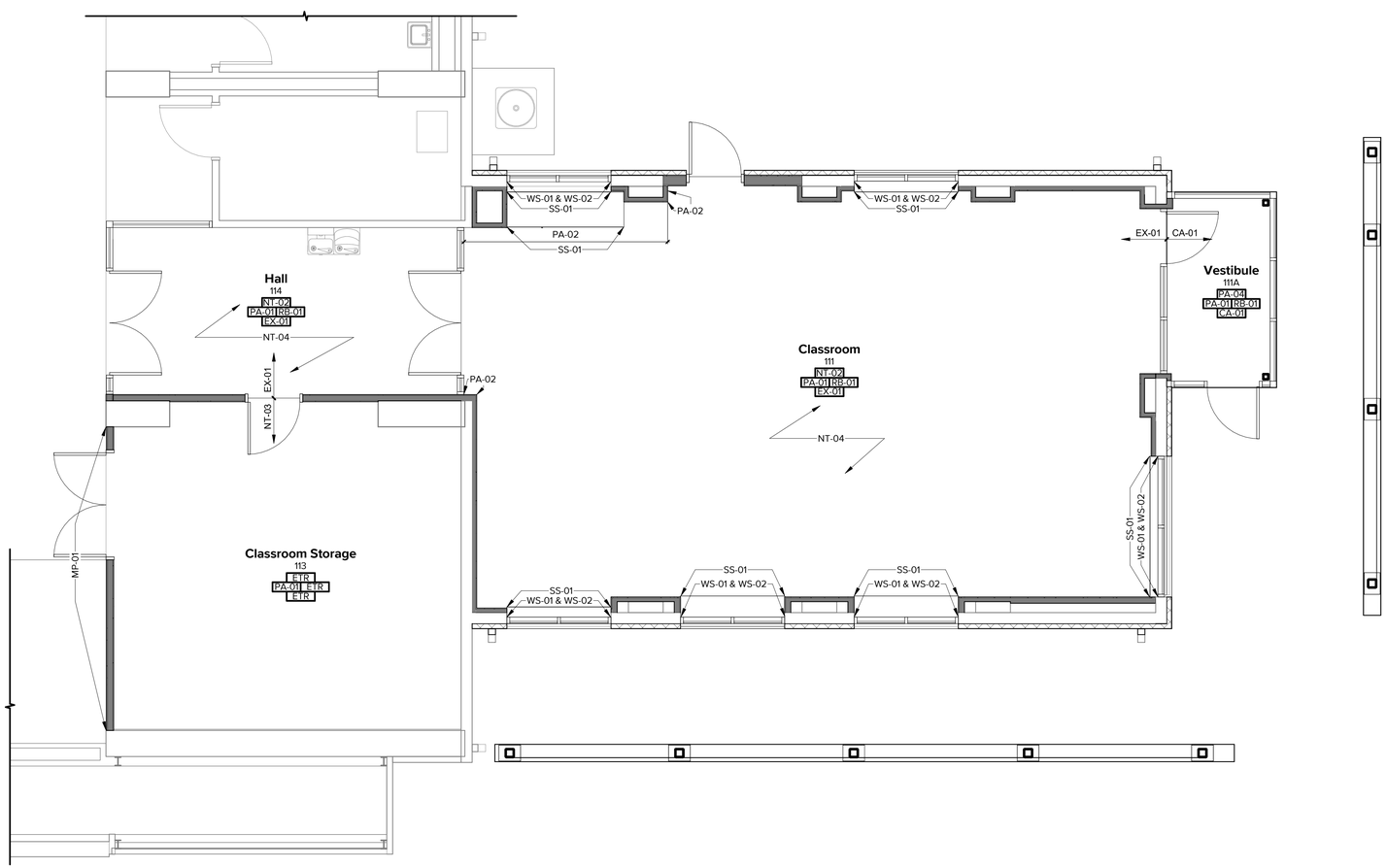
Finish Legend

TYPE	DESCRIPTION	MANUFACTURER	MODEL/SERIES	SIZE	COLOR/FINISH	NOTES
FLOOR						
EX-01	TROWELED EPOXY	DESCO	QUARTZ CREMONA	-	STANDARD BY ARCH	NT-04
CA-01	WALK OFF CARPET	J&J	INCOGNITO WALK-OFF MODULAR...	24 X 24	OPERATIVE 1837	NT-01, ASHLAR PATTERN
BASE						
RB-01	RUBBER BASE	TARKETT	DURA COVE BASE WITH TOE	4"	STANDARD BY ARCH	NT-01
WALL						
PA-01	ACRYLIC LATEX PAINT	SHERWIN WILLIAMS	PRO MAR 200 - INTERIOR EGGSHELL	-	SW 7632 MODERN GRAY	
PA-02	ACRYLIC LATEX PAINT	SHERWIN WILLIAMS	PRO MAR 200 - INTERIOR EGGSHELL	-	SW 9640 SEA MARINER	
MP-01	METAL PANEL	BERRIDGE OR APP. EQ.	"M" PANEL	AS REQ.	PREFINISHED, COLOR BY ARCH	COLOR MATCH FACTORY SCREWS/EXPOSED FASTENERS
WS-01	WINDOW SHADE	DRAPER	SHEERWEAVE PW3500 (4000)	-	ASH	NT-06
WS-02	WINDOW SHADE	DRAPER	SHEERWEAVE SW7100-V21...	-	CHARCOAL	NT-06
CEILING						
AC-01	ACOUSTIC CEILING TILE	ARMSTRONG	2824 CALLA	2X2	BLACK	BLACK 9/16 SILHOUETTE XL GRID - 1/4" REVEAL
AC-02	ACOUSTIC CEILING TILE	ARMSTRONG	2866 CALLA	2X6	WHITE	WHITE 9/16 SILHOUETTE XL GRID - 1/4" REVEAL
BA-01	CEILING BAFFLES	ARKTURA	ATMOSPHERA SWELL	-	MARBLE ACOUSTIC PET FELT	CUSTOM SIZE
PA-03	EXPOSED STRUCTURE PAINT	SHERWIN WILLIAMS	PRO MAR 200 - INTERIOR FLAT	-	SW 6257 GIBRALTAR	NT-05
PA-04	GWB CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 - INTERIOR FLAT	-	SW 6252 ICE CUBE	
PA-05	GWB CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 - INTERIOR FLAT	-	SW 7069 IRON ORE	
SURFACE						
PA-06	ALKYD URETHANE ENAMEL PAINT	SHERWIN WILLIAMS	PRO-INDUSTRIAL	-	SEMI-GLOSS, COLOR BY ARCH	HOLLOW METAL DOOR FRAMES
PL-01	PLASTIC LAMINATE	WILSONART	FRENCH PEAR 8220	-	38 FINE VELVET	NT-01
SS-01	SOLID SURFACE	WILSONART	SOLID SURFACE	-	YUKON RIVERSTONE 9196RS	NT-07



1 **Finish Plan**
SCALE: 1/4" = 1'-0"

General Finish Plan Notes

1. DUE TO AGE OF BUILDING, PERFORM LEAD PAINT TESTING OF ANY SURFACES TO BE DISTURBED PRIOR TO PAINT APPLICATION.
2. WALL PAINT TO RECEIVE ONE COAT MFR RECOMMENDED PRIMER/SEALER AND TWO COATS MFR PAINT; APPLY PER MFR RECOMMENDATIONS.
3. THE PROJECT HAS ACCUMULATED YEARS OF DUST AND DEBRIS. CLEAN ALL SURFACES PER PAINT MANUF RECOMMENDATIONS PRIOR TO APPLICATION.
4. DARK PAINT, PARTICULARLY ON CEILINGS, SHALL RECEIVE AS MANY COATS AS REQUIRED TO HAVE FULL COLOR, WITH NO GHOSTING OR VISIBLE ROLLER MARKS.
5. CONTRACTOR SHALL SUBMIT FINISH SAMPLES OF WOODS & STAINS PRIOR TO ORDER/FABRICATION.
6. REFER TO CEILING PLAN FOR SUPPLEMENTAL CEILING FINISH LOCATIONS.
7. CHANGE MATERIALS BELOW DOOR CENTERLINE WHERE APPROPRIATE.

Finish Keynotes

NT-01 FINISH SHALL BE DIRECTLY ADHERED, UTILIZING MANUFACTURER'S RECOMMENDED METHODS AND PROCEDURES.

NT-02 CEILING FINISH VARIES; REFERENCE CEILING PLAN FOR DESIGN DETAILS.

NT-03 EXISTING FINISH TO REMAIN.

NT-04 CONCRETE PRIMER REQUIRED PRIOR TO EPOXY FLOOR.

NT-05 EXPOSED STRUCTURE TO BE PAINTED PA-03.

NT-06 OPERATIVE WS-01 & WS-02 SHADES ON DUAL ROLLER.

NT-07 SS-01 TO BE 1/2"SILL, INTERIOR SIDE UNDER WINDOWS. REFERENCE WALL SECTIONS.

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Finish Plan & Legend

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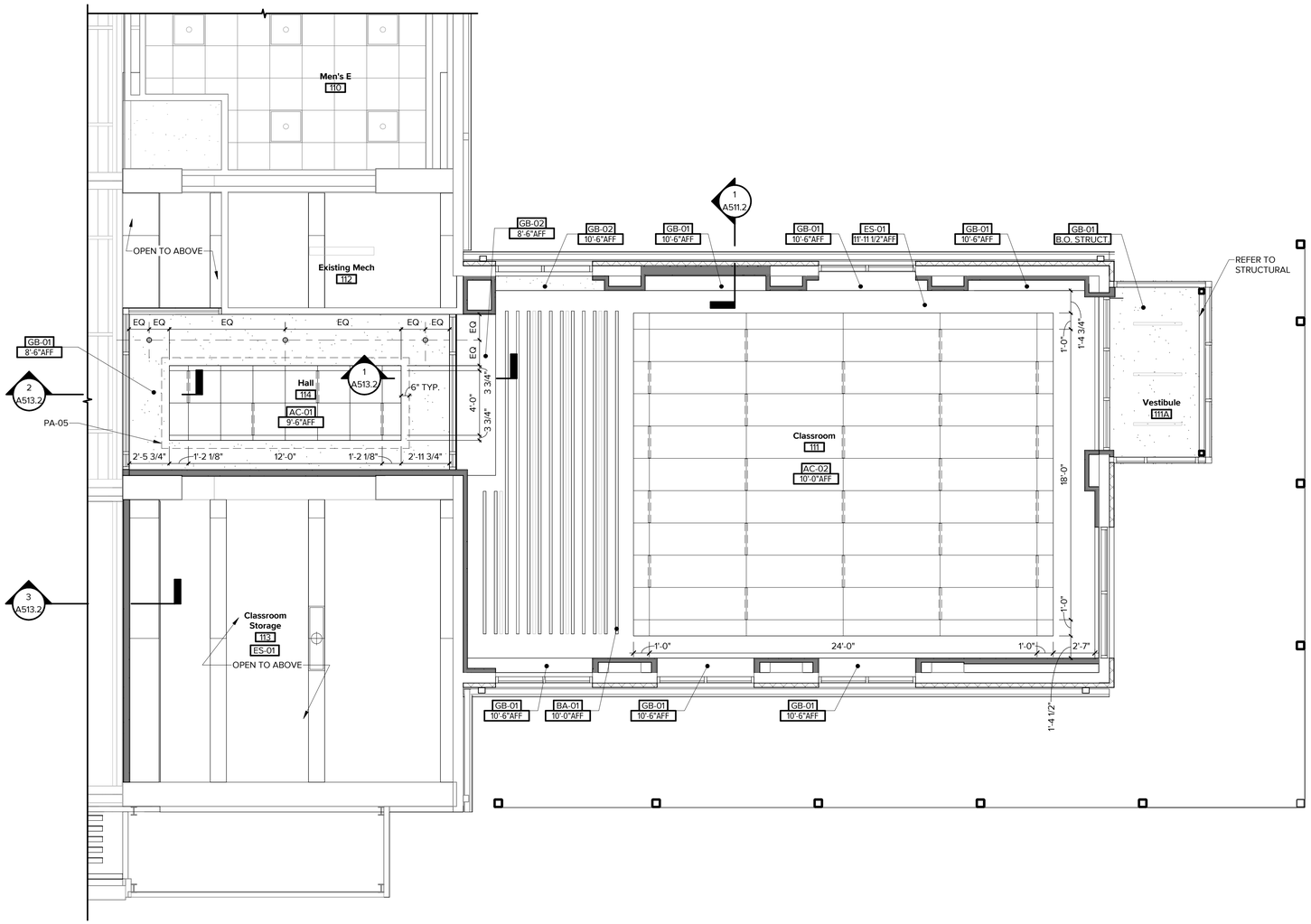

1 FIRST FLOOR
Ceiling Plan
SCALE: 1/4" = 1'-0"

General Ceiling Plan Notes

1. GYP BD FINISHED BULKHEADS & SOFFITS TO BE 5/8" GYP BD ON 2x4 SOFFIT FRAMING (3 5/8" 25 GA MTL STUDS BY ALT) AS INDICATED ON RCP.
2. MECH CONTRACTOR TO PROVIDE & INSTALL EXHAUST FANS AT RESTROOMS AS PER CODE.
3. SUPPLY & RETURN GRILLES, LIGHT FIXTURES, EXIT SIGNAGE, ETC. ARE SHOWN FOR INSTALLATION LOCATION ONLY, REFERENCE MEP PLANS FOR FIXTURE SCHEDULES, LOAD CALCULATIONS, ETC.
4. REFER TO FINISH PLAN AND LEGEND FOR FLOOR AND WALL FINISHES.
5. REFER TO A601.2 INTERIOR ELEVATIONS FOR ADDITIONAL CEILING INFORMATION.
6. GENERAL CONTRACTOR TO COORDINATE WITH SPRINKLER CONTRACTOR TO EXTEND EXISTING STUBS TO NEW CEILING HEADS AND TO PROVIDE COVERAGE AS REQUIRED IN ALL SOFFITS AND/OR CEILING VOID LOCATIONS.

Ceiling Materials Legend

ES-01	EXPOSED STRUCTURE COLOR: PA-03
GB-01	GYPSUM CEILING BOARD, PAINTED COLOR: PA-04
GB-02	GYPSUM CEILING BOARD, PAINTED COLOR: PA-02
AC-01	2'x2' ACOUSTICAL CEILING TILE MANUFACTURER: ARMSTRONG SERIES: CALLA, SQUARE TEGULAR GRID: 9/16" SILHOUETTE XL - 1/4" REVEAL EDGE TRIM: ARMSTRONG AXIOM CLASSIC STRAIGHT PERIMETER TRIM, 4"
AC-02	2'x6' ACOUSTICAL CEILING TILE MANUFACTURER: ARMSTRONG SERIES: CALLA, SQUARE TEGULAR GRID: 9/16" SILHOUETTE XL - 1/4" REVEAL
BA-01	SUSPENDED SOUND ABSORBING BAFFLE, HEIGHTS MEASURED TO TOP OF BAFFLE PER TAGS ON PLANS MANUFACTURER: ARKTURA SERIES: ATMOSPHERA SWELL COLOR: "MARBLE" ACOUSTIC PET FELT USE MANUF RECOMMENDED SUSPENSION SYSTEM

Lighting Symbols Legend

REF MEP DRAWINGS FOR ADDITIONAL INFORMATION

	ROUND PENDANT APPROXIMATE DIA. DASHED)
	SQUARE/RECTANGULAR PENDANT APPROXIMATE DIA. DASHED)
	DIRECT MOUNT FIXTURE (APPROXIMATE DIA. DASHED)
	RECESSED CAN FIXTURE
	LINEAR DIRECT MOUNT FIXTURE
	2X4 LED TROFFER
	2X2 LED TROFFER
	2' LED T-BAR FIXTURE
	SUSPENDED LED FIXTURE

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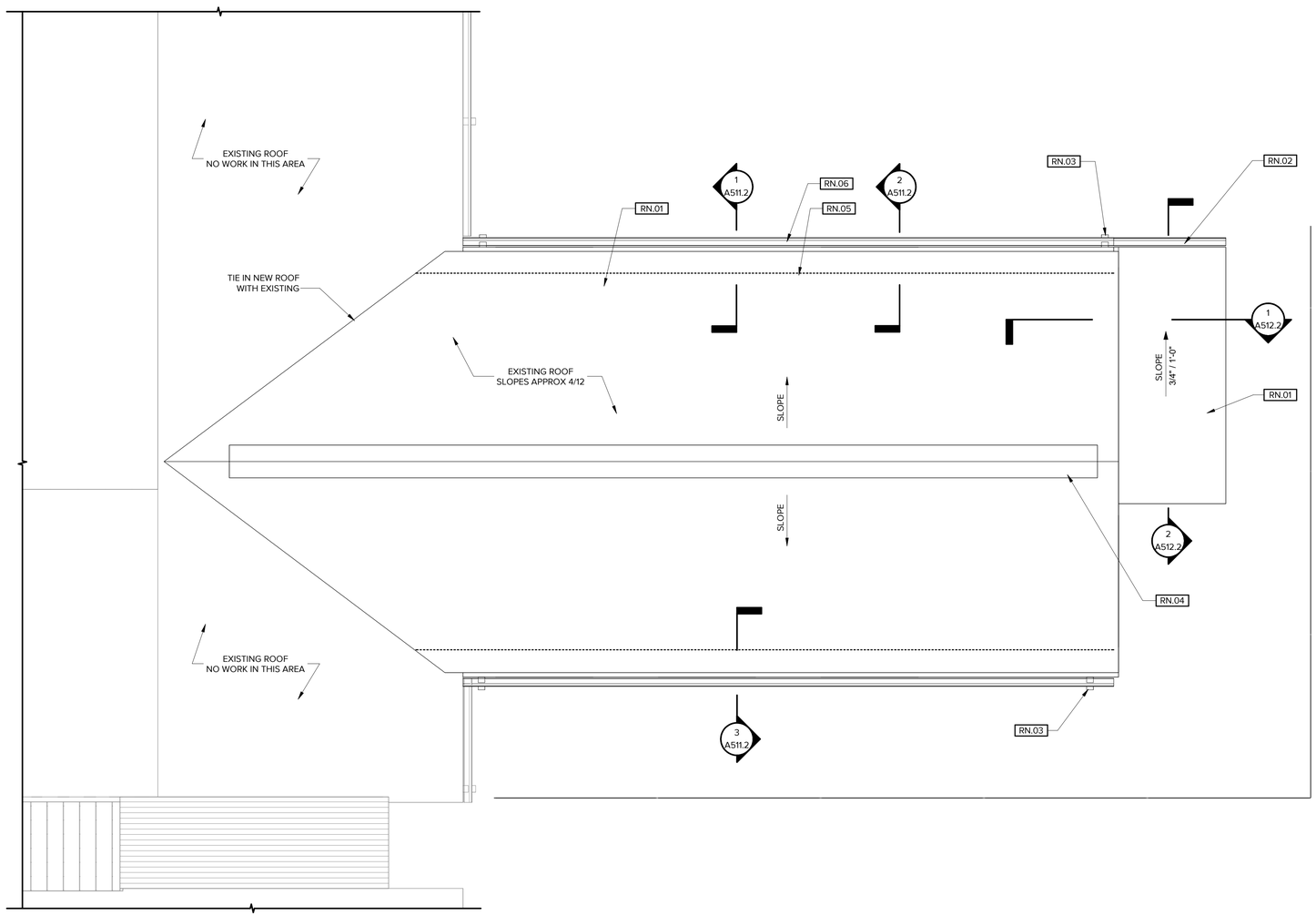

1 **Roof Plan**
SCALE: 1/4" = 1'-0"

General Roof Plan Notes

1. FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.
2. BUILDING WILL BE OCCUPIED THROUGHOUT CONSTRUCTION. PROJECT WALKS AND GROUND BELOW ROOF FROM FALLING DUST AND DEBRIS. CLEAN AND REPAIR AREA AND GROUNDS TO PERVIOUS CONDITION PRIOR TO SUBSTANTIAL COMPLETION. COORDINATE PARKING AND STAGING AREA W/OWNER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND PROVIDING A PRODUCT THAT AT MINIMUM MEETS MANUFACTURER'S WARRANTY AND NRCA RECOMMENDATIONS.
4. CONTRACTOR SHALL PROTECT BUILDING FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL REPLACE AND REPAIR ALL ITEMS DAMAGED. CONTRACTOR SHALL PHOTOGRAPH SITE AND BUILDING PRIOR TO COMMENCING WORK AND SUBMIT TO THE CONTRACTOR.

Roof Plan Keynotes

RN.01	SBS SELF-ADHERING BASE SHEET WITH SBS SELF-ADHERING CAP SHEET. MANUFACTURER: GAF LIBERTY OR APPROVED EQUAL. COLOR BY ARCHITECT FROM STANDARD RANGE. REPLACE ANY ROTTED SHEATING BOARDS AS REQUIRED.
RN.02	NEW 6"x 6" METAL GUTTERS, COLOR TO MATCH METAL ROOF. TURN DOWNSPOUT AROUND CORNER INTO ADJACENT DOWNSPOUT
RN.03	NEW 4"x 4" METAL DOWNSPOUTS, COLOR TO MATCH METAL ROOF.
RN.04	CONTINOUS POLY FLEXIBLE ROOF RIDGE VENT WITH ASPHALT SHINGLE CAP TO MATCH NEW ROOF COLOR.
RN.05	ATTIC INSULATION SOFFIT VENT BAFFLES AT EACH TRUSS BAY.
RN.06	CONT. POLY EAVE VENT BEHIND GUTTER, REF DETAIL

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Roof Plan

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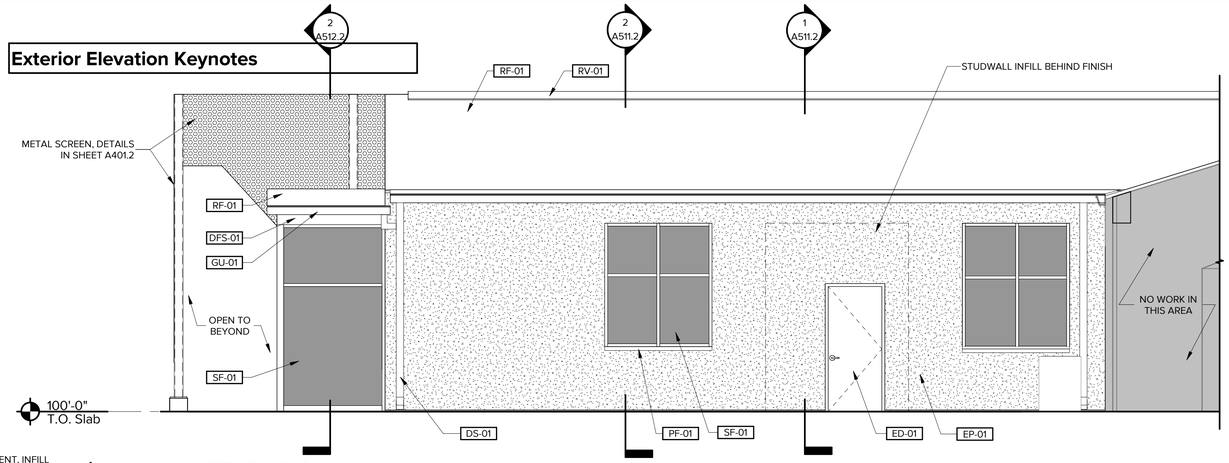
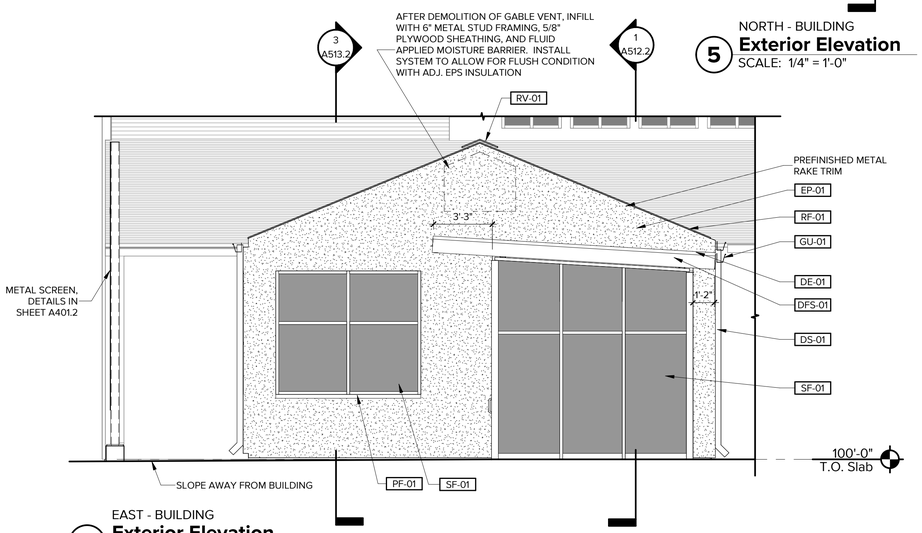
Exterior Elevation Keynotes



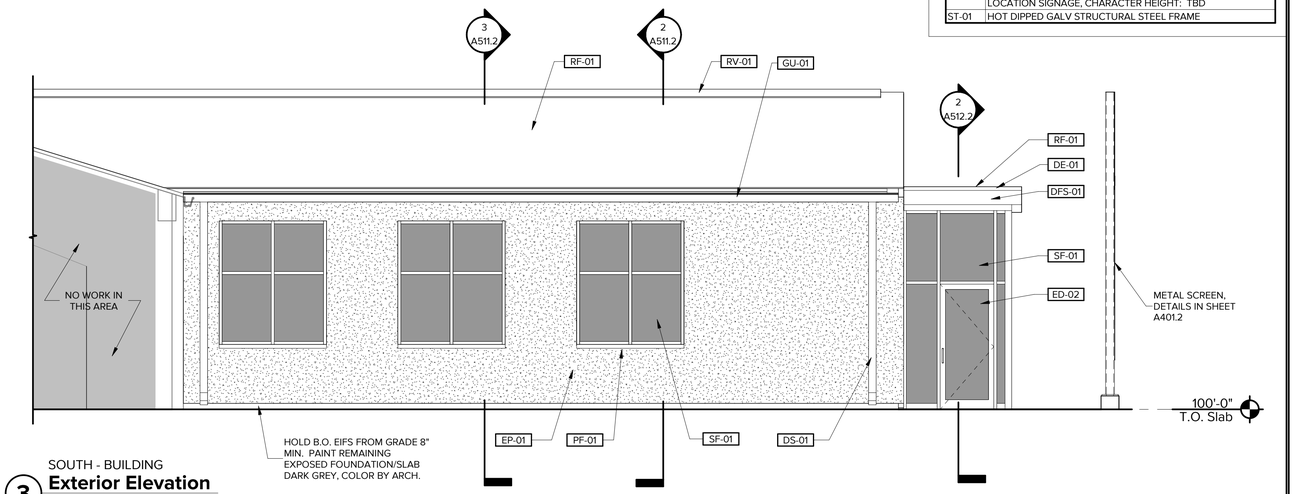
NORTH - BUILDING
5 Exterior Elevation
SCALE: 1/4" = 1'-0"

Exterior Materials Keynotes

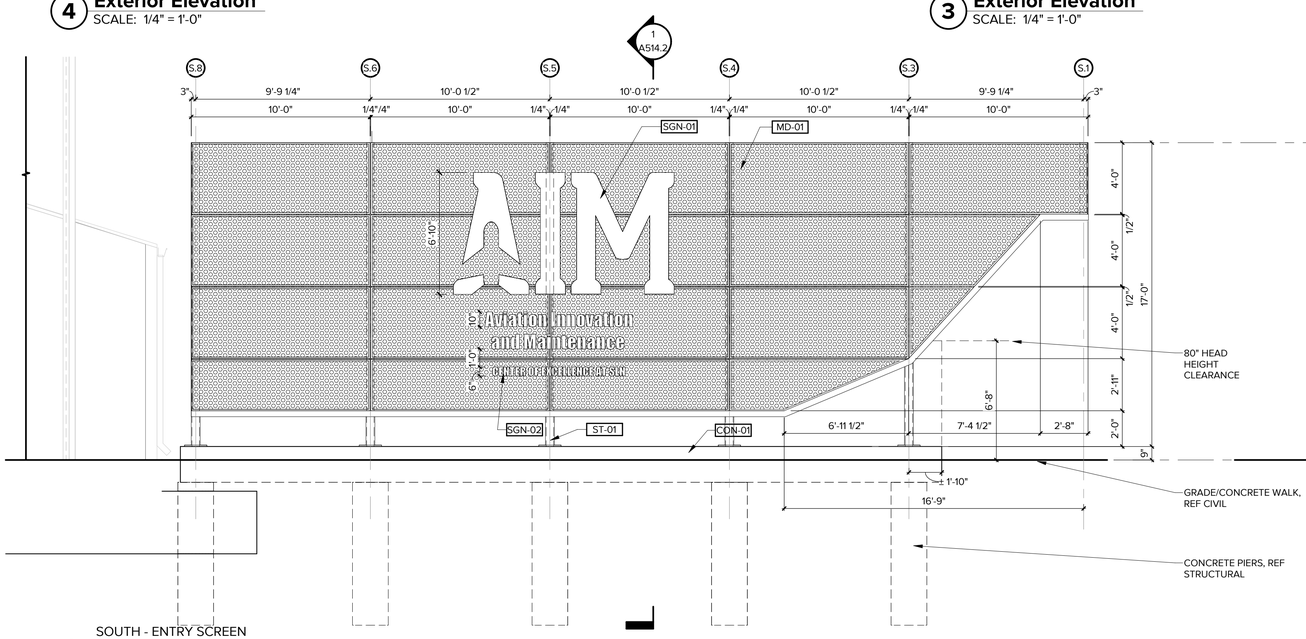
CON-01	REINFORCED CAST IN PLACE CONCRETE STEMWALL WITH 3/4" CHAMFERED EDGES, REF STRUCTURAL. LEAVE NO EXPOSED FORM TIES.
DE-01	PREFINISHED DRIP EDGE
DFS-01	DEFS FINISH (DIRECT APPLIED) TO MATCH EFS-01
DS-01	4"x 4" METAL DOWNSPOUTS, MANUFACTURER: TBD, COLOR: TO MATCH METAL ROOF
ED-01	FLUSH HOLLOW CORE STEEL DOOR, COLOR: BY ARCH, FINISH: SEMI-GLOSS REFER TO SPEC. FOR HIGH-PERFORMANCE COATING PROPERTIES.
ED-02	MEDIUM STILE ALUMINUM/GLASS ENTRY DOOR(S), MANUFACTURER: KAWNEER, COLOR/FINISH: CLEAR ANODIZED
EP-01	EIFS OVER 3" EPS AND DIAMOND LATH, REF WALL SECTIONS, MANUFACTURER: DRYVIT OR APPROVED EQUAL, FINISH: STUCCO FINISH SANDBLAST, COLOR: PURE WHITE
GU-01	6"x 6" METAL GUTTERS, MANUFACTURER: TBD, COLOR: TO MATCH METAL ROOF
MD-01	1" DIA. PERFORATED 0.1250" ALUMINUM SCREEN WITH U-EDGING TRIM ON ALL SIDES OF EACH PANEL. FASTEN WITH GALV. GASKETED SELF TAPING SCREWS AND REAR NYLON WASHER. MANUFACTURER: MCNICHOLS, COLOR: FACTORY ALUMINUM.
MD-02	4" PREFINISHED METAL ACCENT TRIM. MANUFACTURER: BERRIDGE OR APPROVED EQUAL. COLOR: LIGHT BLUE PANTONE 2995 C - RGB: 71,75,94
PF-01	PREFINISHED METAL PAN FLASHING TO MATCH ALUMINUM STOREFRONT SYSTEM. OVERLAP EIFS 2 1/2".
RF-01	ROLLED ASPHALTIC ROOFING SYSTEM, COLOR BY ARCHITECT
RV-01	CONT. POLY RIDGE VENT WITH ASPHALTIC CAP SHEET
SF-01	THERMALLY BROKEN FRONT SET ALUMINUM STOREFRONT SYSTEM WITH CLEAR INSULATED GLAZING, MANUFACTURER: MANKO OR APPROVED EQUAL, 2450FS SERIES, COLOR/FINISH: CLEAR ANODIZED
SGN-01	INTERNALLY ILLUMINATED SCREEN MOUNTED SIGNAGE. BLUE CHARACTERS WITH WHITE PERIMETER TRIM.
SGN-02	HALO ILLUMINATED BUILDING MOUNTED CHANNEL LETTER LOCATION SIGNAGE, CHARACTER HEIGHT: TBD
ST-01	HOT DIPPED GALV STRUCTURAL STEEL FRAME



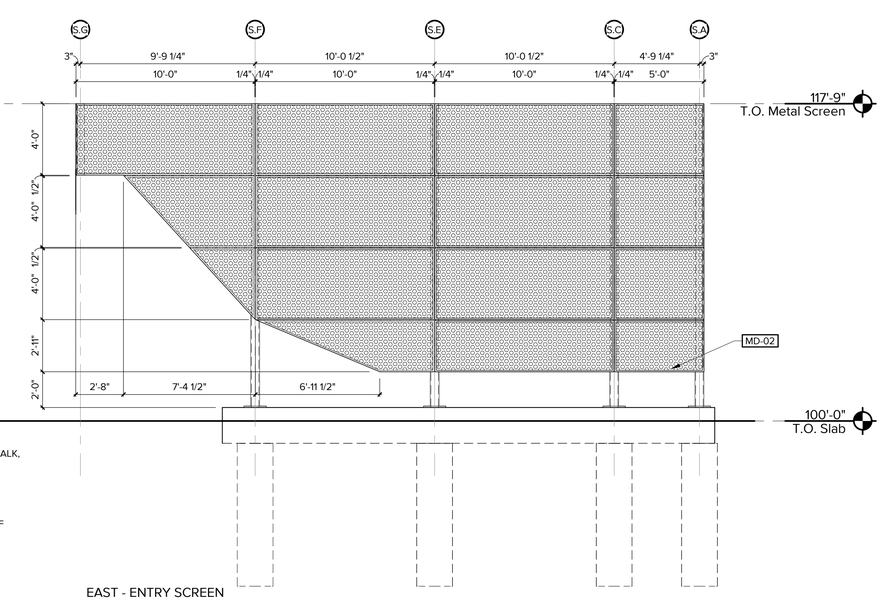
EAST - BUILDING
4 Exterior Elevation
SCALE: 1/4" = 1'-0"



SOUTH - BUILDING
3 Exterior Elevation
SCALE: 1/4" = 1'-0"



SOUTH - ENTRY SCREEN
2 Exterior Elevation
SCALE: 1/4" = 1'-0"



EAST - ENTRY SCREEN
1 Exterior Elevation
SCALE: 1/4" = 1'-0"

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Exterior Elevations

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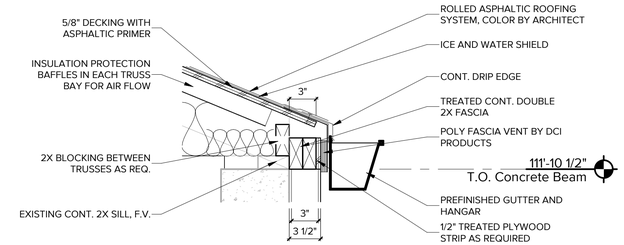
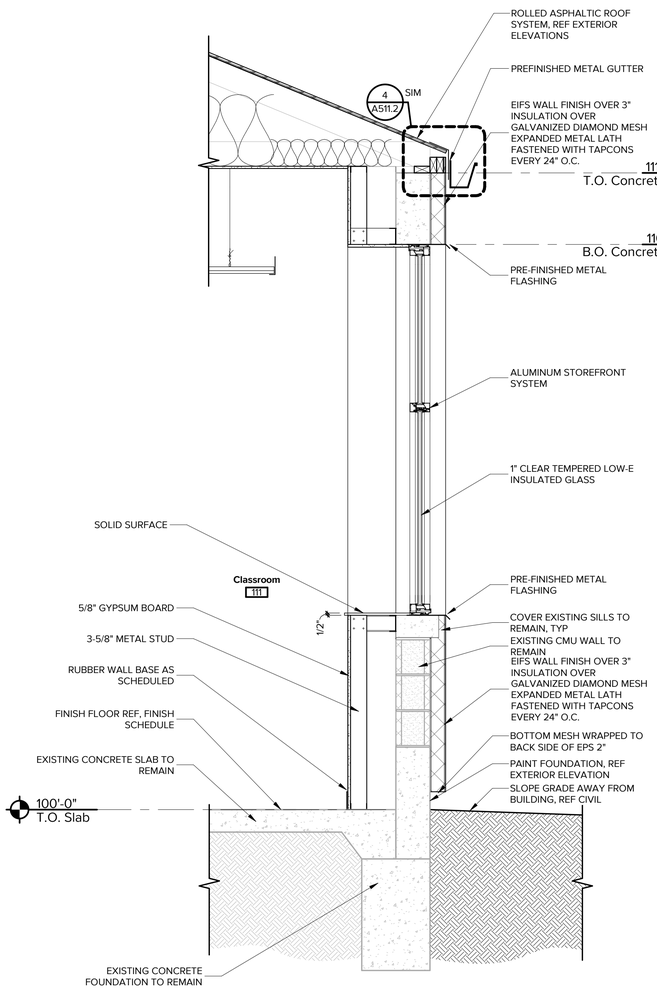
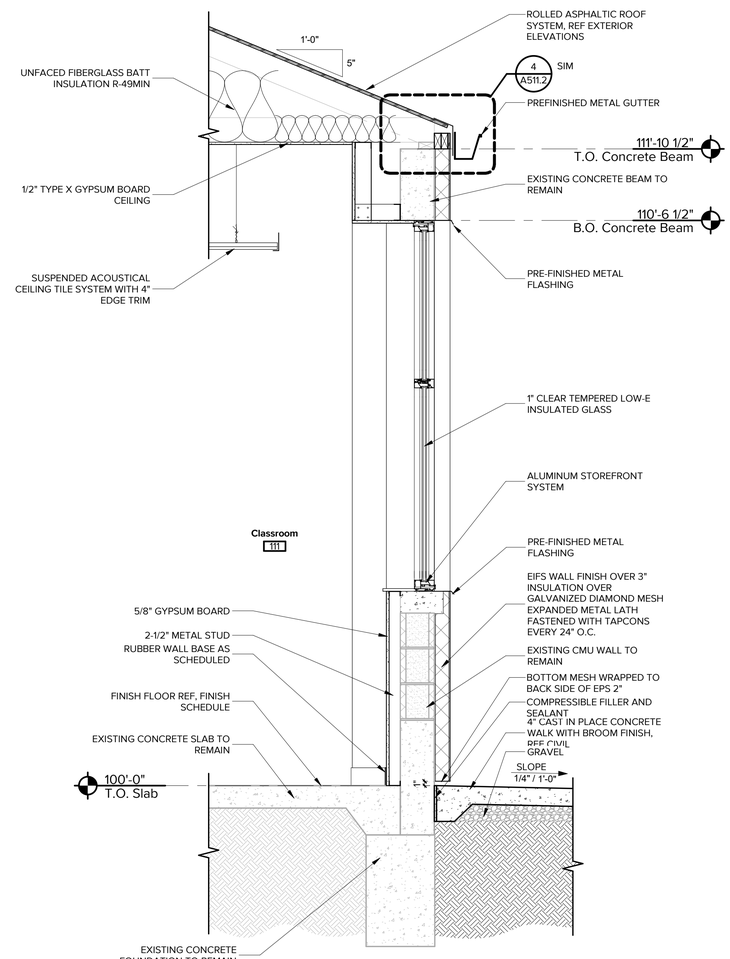


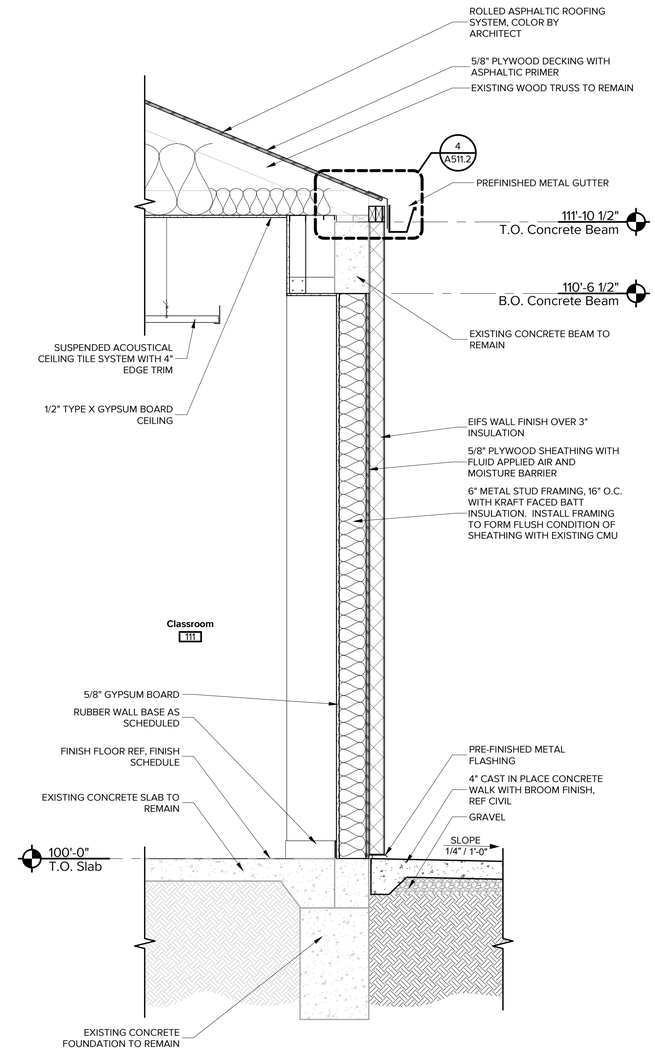
LOW EAVE
4 Section Detail
SCALE: 1 1/2" = 1'-0"



CLASSROOM WINDOW - SOUTH
3 Wall Section
SCALE: 3/4" = 1'-0"



CLASSROOM WINDOW - NORTH
2 Wall Section
SCALE: 3/4" = 1'-0"



CLASSROOM WALL - NORTH
1 Wall Section
SCALE: 3/4" = 1'-0"

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SHEET TITLE

Wall Sections - Classroom

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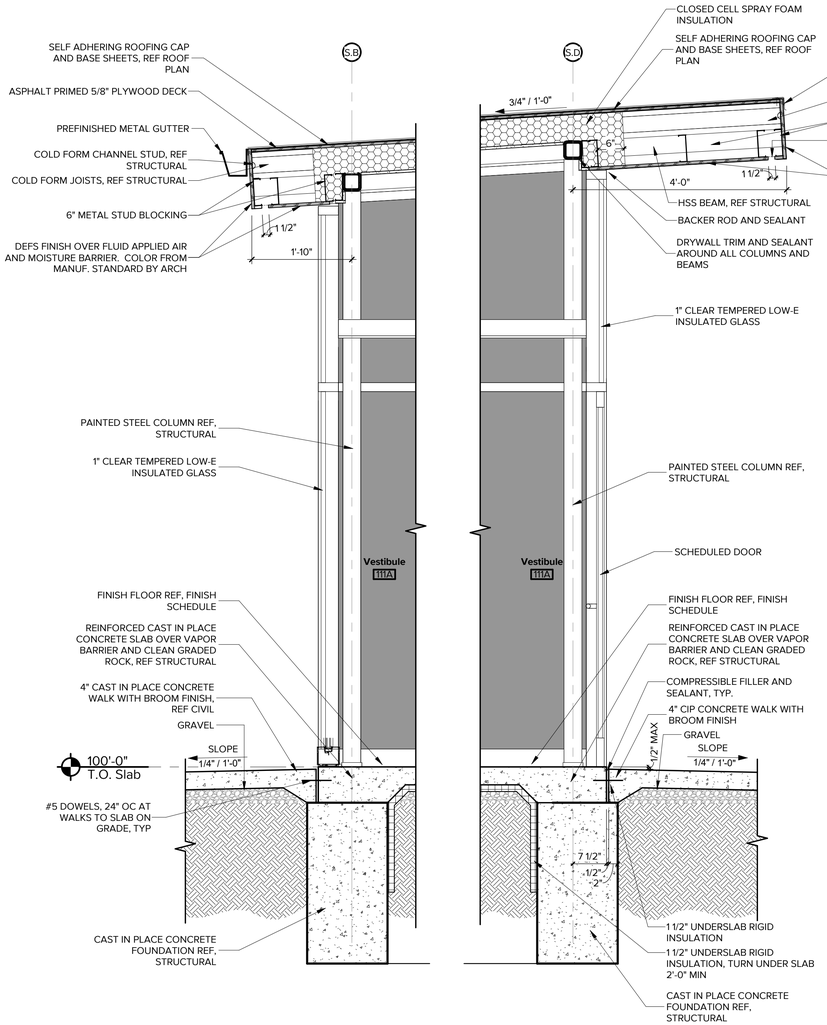
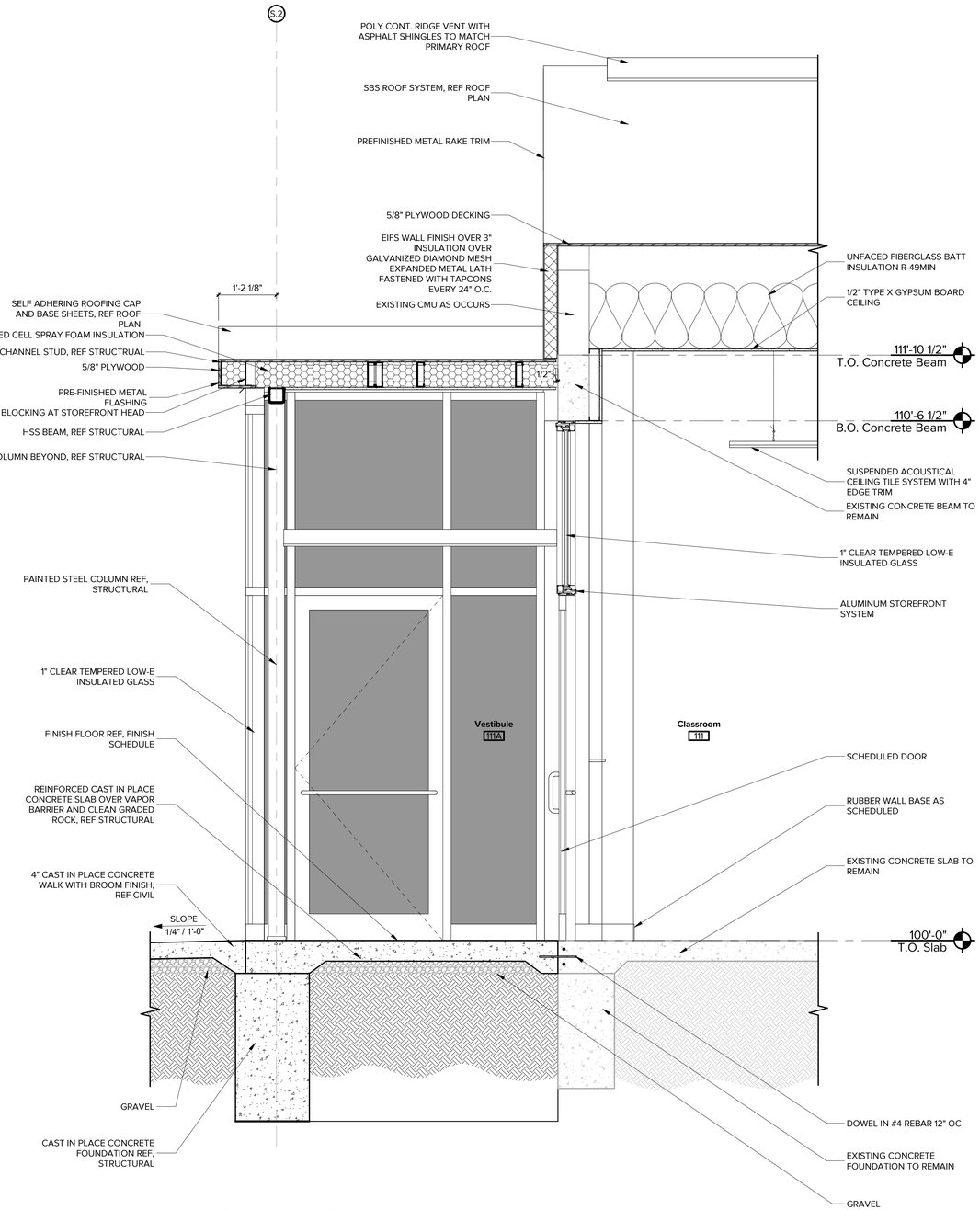


VESTIBULE STOREFRONT - NORTH

2 Wall Section

SCALE: 3/4" = 1'-0"



VESTIBULE STOREFRONT - EAST

1 Wall Section

SCALE: 3/4" = 1'-0"

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SHEET TITLE

Wall Sections - Vestibule

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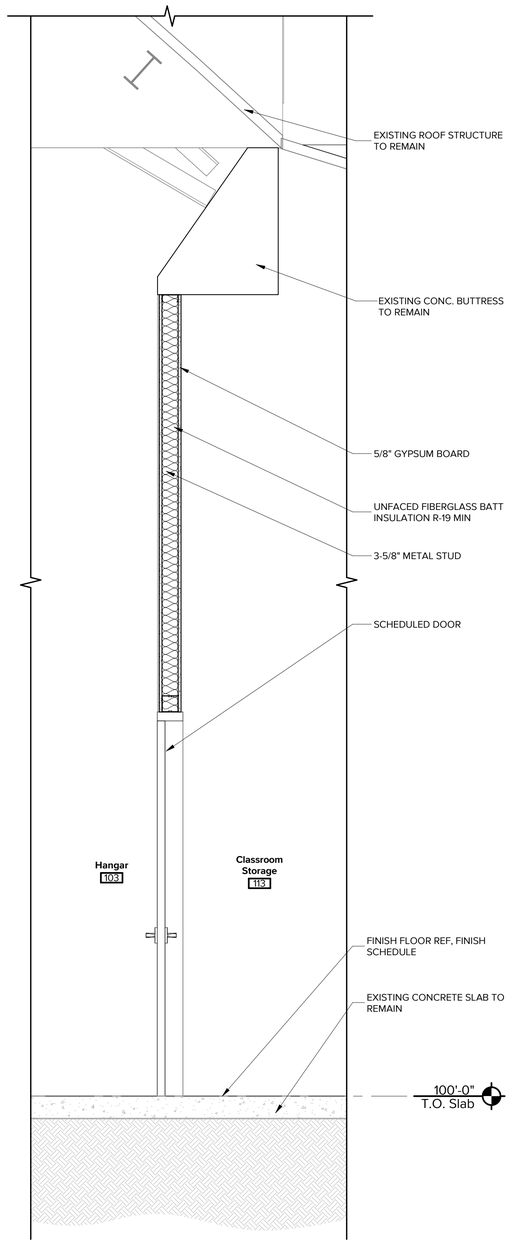
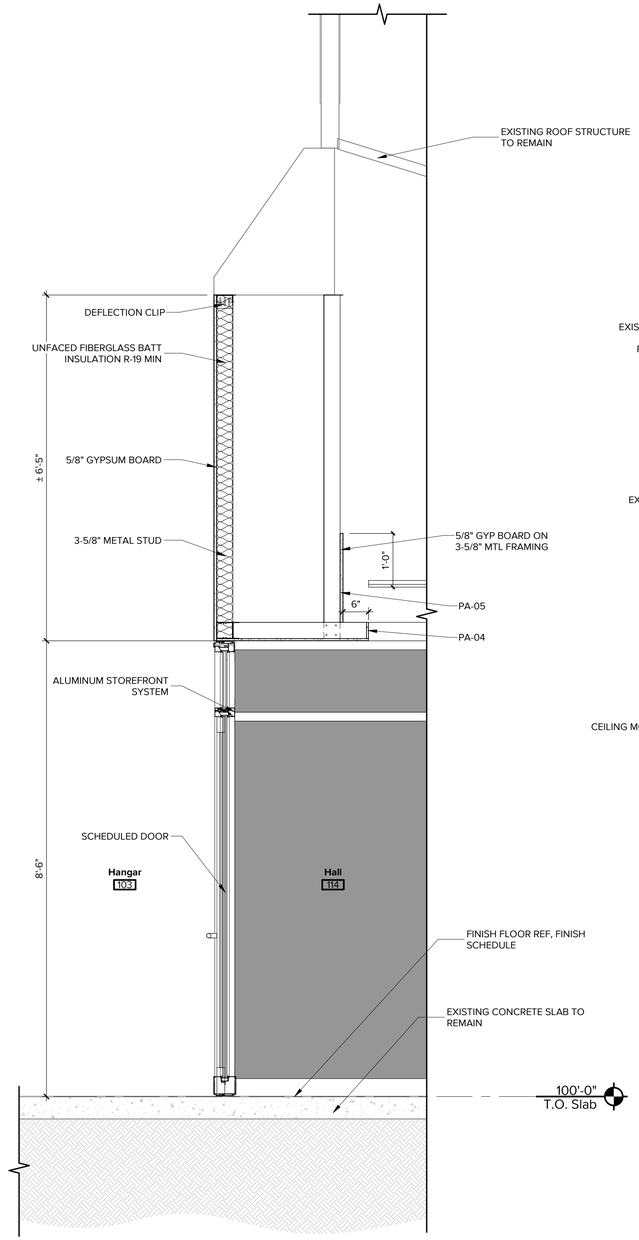
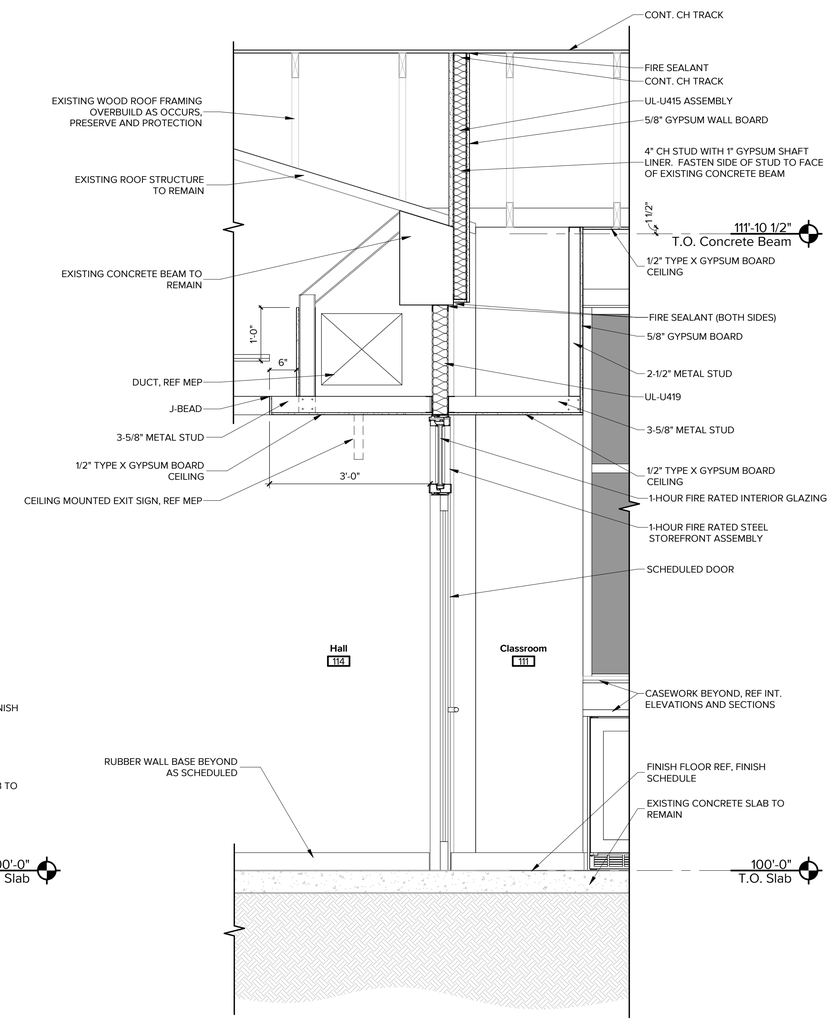


3 STORAGE - WEST
Wall Section
SCALE: 3/4" = 1'-0"



2 STOREFRONT VEST - WEST
Wall Section
SCALE: 3/4" = 1'-0"



1 VEST DOOR - EAST
Wall Section
SCALE: 3/4" = 1'-0"

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Wall Sections - Interior

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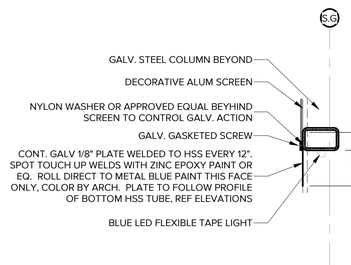
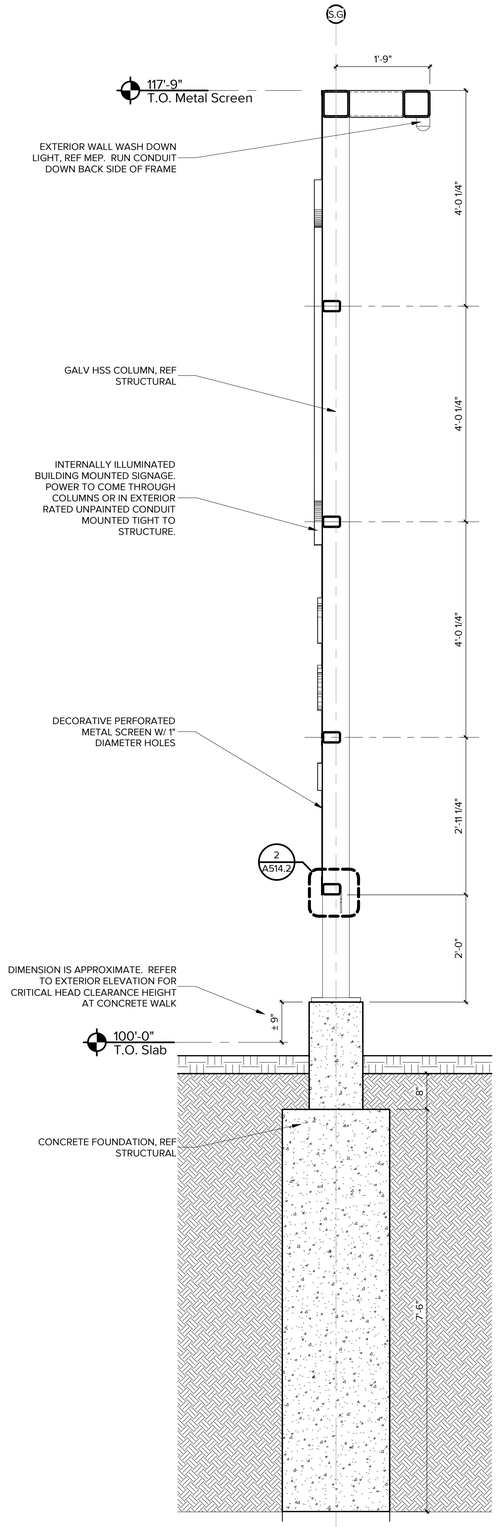


DECORATIVE METAL SCREEN EDGE LIGHT
2 Section Detail
SCALE: 1 1/2" = 1'-0"



DECORATIVE METAL SCREEN - SOUTH
1 Wall Section
SCALE: 3/4" = 1'-0"

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ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

Wall Sections - Entry Screen

HANGAR 626

SHEET NUMBER

A514.2

Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-133 Salina Airport Authority Aim Center_v23.rvt

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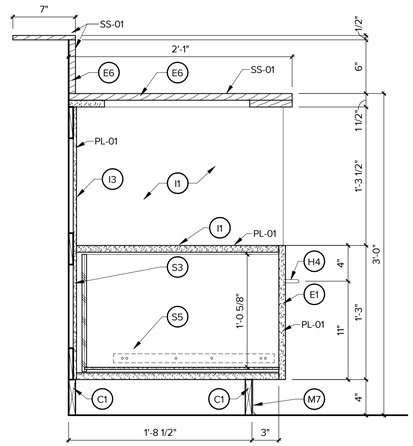
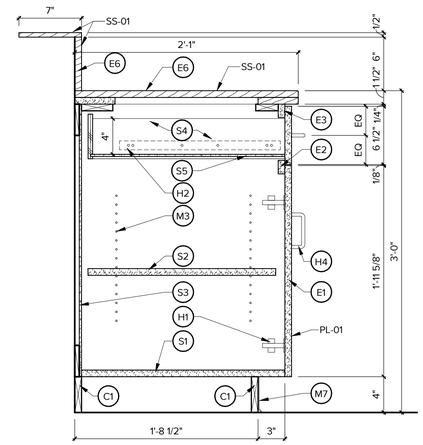
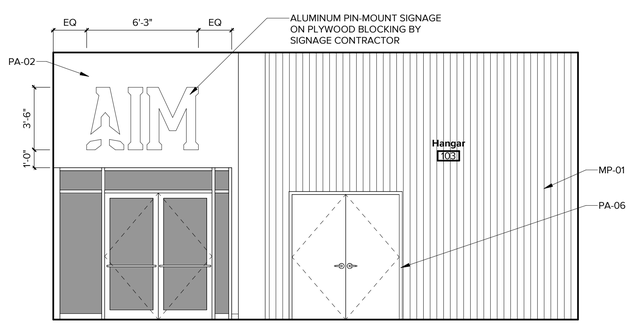


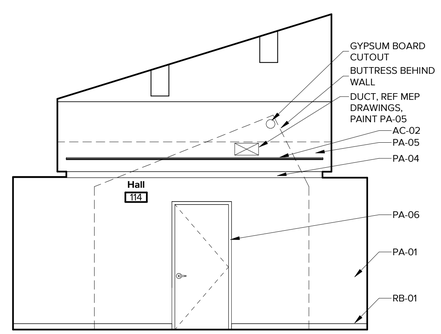
BASE - OPEN SHELF AND DRAWER
8 Casework Detail
SCALE: 1 1/2" = 1'-0"



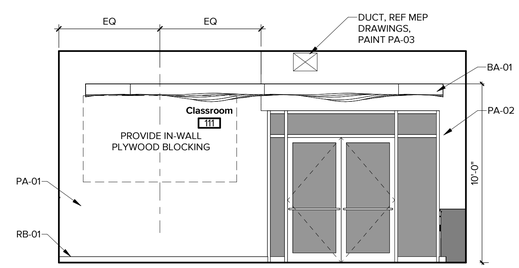
BASE
7 Casework Detail
SCALE: 1 1/2" = 1'-0"



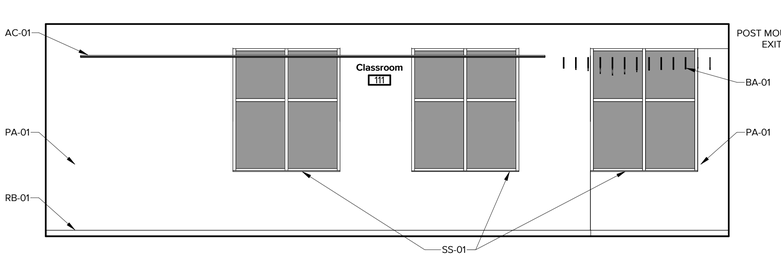
HANGAR 103 - EAST
6 Interior Elevation
SCALE: 1/4" = 1'-0"



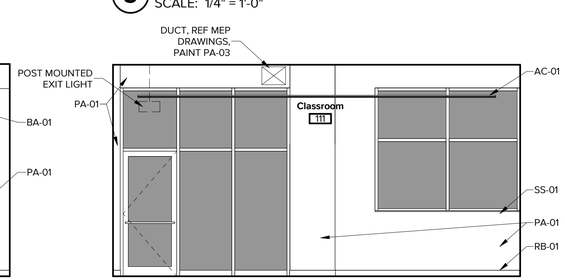
HALL 114 - SOUTH
5 Interior Elevation
SCALE: 1/4" = 1'-0"



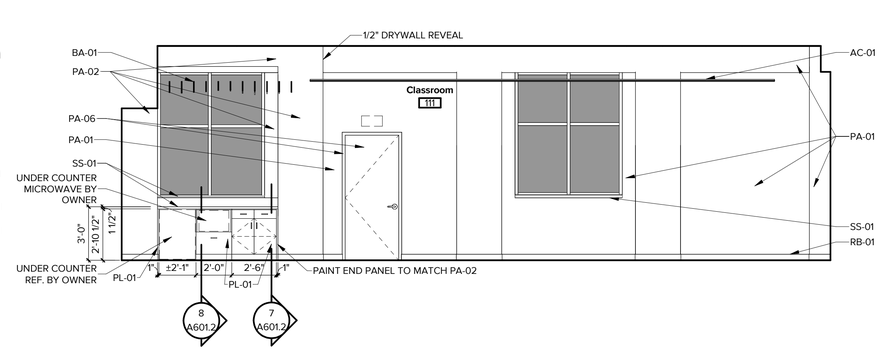
CLASSROOM 111 - WEST
4 Interior Elevation
SCALE: 1/4" = 1'-0"



CLASSROOM 111 - SOUTH
3 Interior Elevation
SCALE: 1/4" = 1'-0"



CLASSROOM 111 - EAST
2 Interior Elevation
SCALE: 1/4" = 1'-0"



CLASSROOM 111 - NORTH
1 Interior Elevation
SCALE: 1/4" = 1'-0"

General Interior Elevation Notes

1. REFERENCE FINISH PLAN AND LEGEND FOR ALL FINISH INFORMATION AND NOTATIONS REFERECNED IN ELEVATION VIEWS.
2. ANY QUESTION ABOUT NOTATIONS SHOULD BE DIRECTED TO ARCHITECT FOR CLARITY.
3. NO PAINTING REQUIRED ABOVE THE INTESECTION OF THE CONCRETE BUTRESSESS AND THE CLERESTORY WINDOWS, TYP.
4. THE PROJECT HAS ACCUMULATED YEARS OF DUST AND DEBRIS. CLEAN ALL SURFACES PER PAINT MANUF RECOMMENDATIONS PRIOR TO APPLICATION.

Casework Notes

1. DETAILS DRAWN ARE NOT SHOP DRAWINGS. THESE DETAILS REPRESENT DESIGN INTENT ONLY BY THE ARCHITECT. CABINET MANUFACTURER IS REQUIRED TO SUBMIT A SHOP DRAWING TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF THE CABINETS.
2. ALL CABINETS TO COMPLY WITH AWI SECTION 400 AND ITS DIVISION 400A "WOOD CABINETS".
3. GRADE: CUSTOM.
4. CONSTRUCTION: FLUSH OVERLAY, FLUSH WITHOUT EXPOSED FACE FRAME.
5. WOOD SPECIES: NATURAL OAK, PLAIN SAWN/SLICED.
   A. GRAIN MATCHING - VERTICAL TYPICAL.
   B. BOOK MATCH OF VENEER LEAVES.
6. HARDWARE: HINGES - BLUM 120 deg, CONCEALED, SELF CLOSING PULLS - WIRE
7. PLASTIC LAMINATE COUNTER TOPS, SILLS, AND BACKSPLASHES: PREMIUM GRADE, SOLID COLOR, SQUARE EDGES, WITH BACKING SHEET
8. FIELD VERIFY ALL DIMENSIONS PRIOR TO CABINET FABRICATION
9. STAIN TO MATCH PASSAGE DOORS AS SELECTED BY OWNER.
10. INTERIOR CABINET FINISH TO BE MELAMINE. EXPOSED SHELF FINISH TO MATCH CABINETS.
11. PROVIDE BLOCKING AS REQUIRED TO HANG/MOUNT CABINETRY AS SHOWN.

Casework Keynotes

Concealed Surfaces (C)	
C1	4 TOEBOARD SHIPPED ATTACHED TO CABINET
Exposed Exterior Surfaces (E)	
E1	DOOR & DRAWER FACES PLASTIC LAMINATE GLUED W/ CONTACT ADHESIVE TO 3/4" DENSITY BOARD (45 LB/FT3 MIN)
E2	DRAWER RAILS PLASTIC LAMINATE GLUED W/ CONTACT ADHESIVE TO 3/4" DENSITY BOARD (45 LB/FT3 MIN)
E3	FACE FRAME OR EDGEBANDED FRAMELESS FACE PLASTIC LAMINATE GLUED W/ CONTACT ADHESIVE TO 3/4" DENSITY BOARD (45 LB/FT3 MIN)
E6	COUNTERTOP SOLID SURFACE COUNTERTOP
Exposed Interior Surfaces (I)	
I1	INTERIOR SIDES TOPS & BOTTOMS AT OPEN CASEWORK PLASTIC LAMINATE GLUED W/ CONTACT ADHESIVE TO 3/4" DENSITY BOARD (45 LB/FT3 MIN)
I3	BACKS AT OPEN CASEWORK PLASTIC LAMINATE GLUED W/ CONTACT ADHESIVE TO 3/8" DENSITY BOARD (45 LB/FT3 MIN)
Hardware (H)	
H1	HINGES BLUM #97M5580 SELF-CLOSING CONCEALED HINGE 12°5 DEGREE OPENING WITH #198.6600.23 FACE FRAME - FACELESS MOUNTING PLATE
H2	DRAWER SLIDES (TYPICAL) ACCURIDE #C-38"29 FULL-EXTENSION WITH REAR MOUNT SOCKETS
H4	PULLS WIRE PULL WITH FINISH AS SPECIFIED BY ARCHITECT
Miscellaneous (M)	
M3	SHELF STANDARD HOLES 5MM HOLES AT 32MM ON CENTER
M7	WALL BASE AS SCHEDULED REF, FINISH PLAN
Semi-Exposed Surfaces (S)	
S1	INTERIOR SIDES TOPS & BOTTOMS 3/4" THICK WHITE MELAMINE CLAD PARTICLE BOARD
S2	ADJUSTABLE & FIXED SHELVES 3/4" THICK WHITE MELAMINE CLAD PARTICLE BOARD (30 SPAN MAX)
S3	BACKS 3/8" THICK WHITE MELAMINE CLAD PARTICLE BOARD
S4	DRAWER BOX SIDES 1/2" THICK BALTIC BIRCH 7-PLY PLYWOOD WITH SANDED EDGES
S5	DRAWER BOX BOTTOMS 1/4" THICK WHITE MELAMINE CLAD PARTICLE BOARD

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KANSAS
ARCHITECT

AIM Center of Excellence at SLN

2625 Arnold Court
Salina, Kansas

PROJECT NUMBER:	23-133
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PROJECT MANAGER:	ADT
DRAWN BY:	ADT, MGL, KPR
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ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

Interior Elevations and Casework Sections

HANGAR 626
SHEET NUMBER
A601.2

Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-133 Salina Airport Authority Aim Center_v23.rvt

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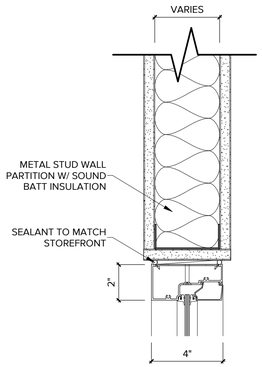
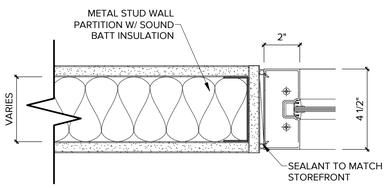
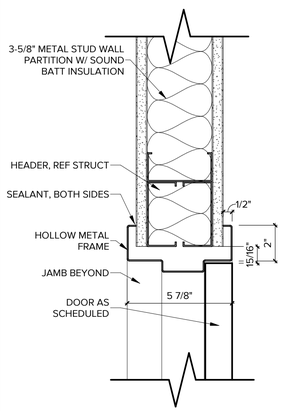


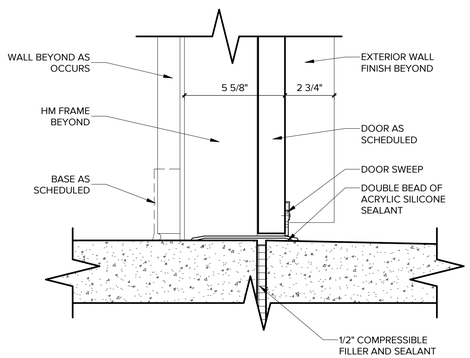
HEAD
5 Aluminum Frame Detail
SCALE: 3" = 1'-0"



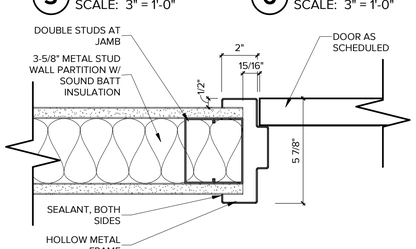
JAMB
4 Aluminum Frame Detail
SCALE: 3" = 1'-0"



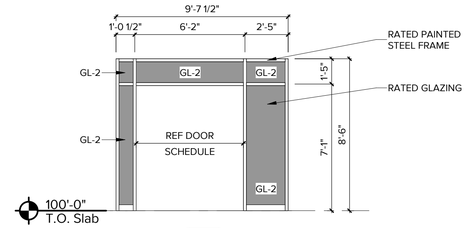
HEAD IN MTL. STUD
3 Door Detail
SCALE: 3" = 1'-0"



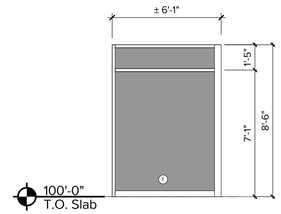
HM SILL
6 Door Detail
SCALE: 3" = 1'-0"



JAMB IN MTL. STUD
2 Door Detail
SCALE: 3" = 1'-0"



FA01 60 MIN FRAME



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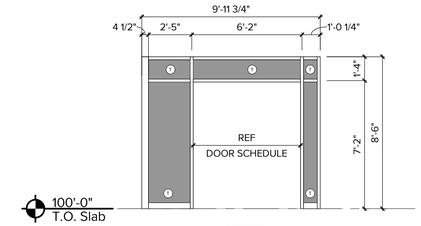

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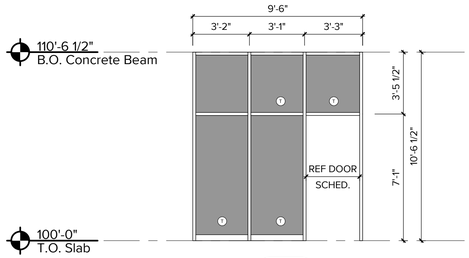

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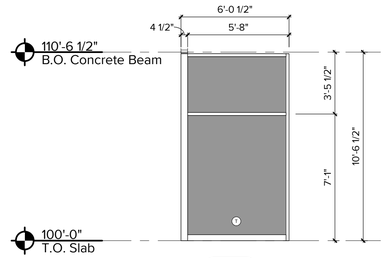

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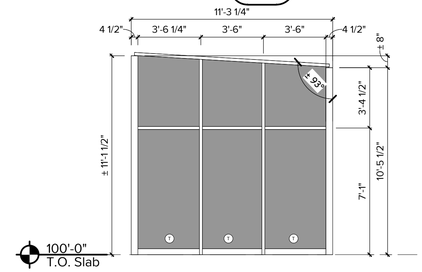

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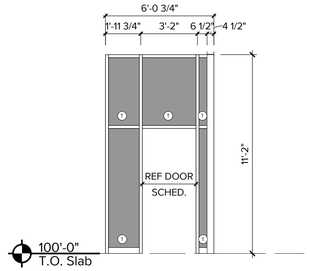

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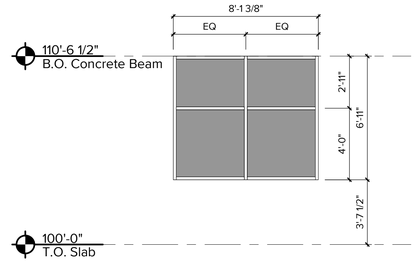
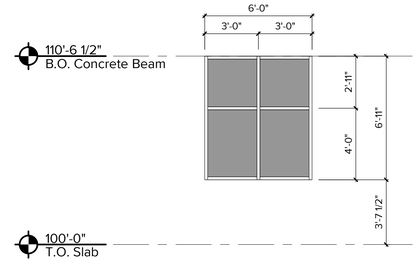


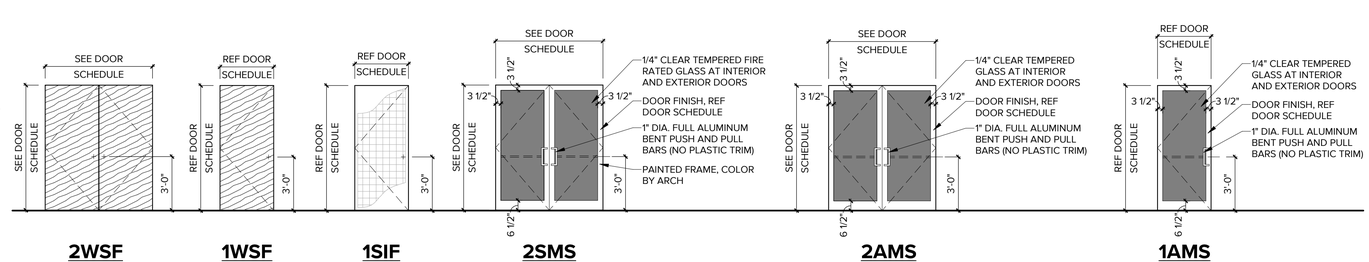
EB01



EA01 (THROUGH EA05)

Door Schedule

IDENTITY		SIZE			TYPE		DETAILS													
DOOR NUMBER	ROOM	WIDTH	HEIGHT	THICKNESS	DOOR	FRAME	HEAD	JAMB	SILL	PUSH/PULL BAR	PUSH /PULL LATCHSET	STOREROOM LOCKSET	CLOSER - STANDARD	DEADBOLT	KEYED CYLINDER	WEATHERSTRIP & THRESHOLD	OVERHEAD DRIP CAP	KICK PLATE	WALL GUARD	FIRE RATING (MINUTES)	NOTES
111A	Vestibule	3'-0"	7'-0"	1 3/4"	1AMS	ALUM	REF WALL SEC.	3/A102.2			■		■		■	■					WITH INTERIOR THUMB TURN
111B	Vestibule	3'-0"	7'-0"	1 3/4"	1AMS	ALUM	5/A701.2	3/A102.2		■			■								
111C	Classroom	3'-0"	7'-0"	1 3/4"	1SIF	HM	2/A102.2	2/A102.2	6/A701.2			■	■	■		■	■				SLAB AND FRAME PAINT COLOR BY ARCH, SILL SWEEP
111D	Classroom	6'-0"	7'-0"	1 3/4"	2SMS	HM-FIRE	REF MANUF	REF MANUF	REF MANUF		■		■		■					45	REFER TO MANUF. DETAILS FOR INSTALLATION
113A	Classroom Storage	6'-0"	7'-0"	1 3/4"	2WSF	HM	3/A701.2	2/A701.2				■	■					■			180 HINGES
113B	Classroom Storage	3'-0"	7'-0"	1 3/4"	1WSF	HM	3/A701.2	2/A701.2				■	■					■	■		180 HINGES
114A	Hall	6'-0"	7'-1"	1 3/4"	2AMS	ALUM	5/A701.2	4/A701.2		■			■								



2WSF 1WSF 1SIF 2SMS 2AMS 1AMS

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

Glazing Assembly Legend

TYPE CODE
(PER THE GLAZING ASSEMBLY SCHEDULE)

X X # #

SYSTEM TYPE
- **E** = EXTERIOR STOREFRONT (THERM. BKN.) (2 x 4-1/2)
- **F** = 1-HOUR FIRE RATED (SIZE BY MANUF.)
- **I** = INTERIOR STOREFRONT (2 x 4-1/2)

ELEVATION TYPE
- **A** = TYPE A
- **B** = TYPE B
- **C** = TYPE C (etc.)

INSTANCE COUNT

ALL EXTERIOR STOREFRONT TO BE FRONT SET, ANODIZED ALUMN
ALL INTERIOR STOREFRONT TO BE CENTER SET, ANODIZED ALUMN
ALL FIRE RATED DOOR AND GLAZIG FRAMES SET BY MANUF, PAINT COLOR BY ARCHITECT
CONTACT: TODD BURTON, THE ARCHITECTURAL SALES COMPANY
913-485-4068, PRODUCT BY VETROTECH SAINT-GOBAIN

Glass Types Legend & Gen. Notes

NOTE: REF EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. ALL GLASS GL-01 UNLESS NOTED OTHERWISE.

GL-01	1" INSULATED GLASS WITH LOW-E COATING MANUFACTURER: MANKO OR APPROVED EQ.
GL-02	TEMPERED FIRE RATED GLAZING BY MANUF

FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION
PROVIDE COLOR MATCHED SEALANT ON BOTH SIDES OF ALL FRAMES

Door Legend

TYPE CODE
(PER DOOR SCHEDULE)

COUNT/OPERATION
- **1** = SINGLE SWING
- **2** = DOUBLE/PAIR SWING
- **B** = BARN
- **F** = FOLDING/BIFOLD
- **O** = OVERHEAD
- **P** = POCKET
- **S** = SLIDING
- **W** = OPERABLE WALL

MATERIAL
- **A** = ALUMINUM
- **B** = FABRIC
- **F** = FIBERGLASS
- **G** = GLASS
- **M** = MDF
- **P** = PLASTIC
- **S** = STEEL
- **V** = VINYL
- **W** = WOOD

CONSTRUCTION/BUILD
- **G** = GRILLE
- **F** = FRAMELESS
- **I** = INSULATED CORE
- **H** = HOLLOW CORE
- **M** = MEDIUM STILE
- **N** = NARROW STILE
- **P** = PANEL/SECTIONAL
- **R** = SHUTTER
- **S** = SOLID CORE
- **W** = WIDE STILE

ADDITIONAL FEATURE
- **A** = AUTOMATIC
- **C** = COILING
- **D** = DECORATIVE GLASS
- **E** = EMBOSSED
- **F** = FLUSH
- **H** = HIGH LIFT TRACK
- **I** = IMPACT/HURRICANE/BLAST
- **L** = LAMINATE
- **M** = MUNTONS
- **N** = NARROW LITE
- **P** = PATIO
- **R** = RAPID COIL
- **S** = STOREFRONT/CURTAINWALL/FULL LITE
- **T** = TRAFFIC
- **U** = LOUVER
- **V** = VERTICAL LIFT TRACK
- **W** = WINDOW LITE

Door Schedule Notes

1. PROVIDE INTERCHANGEABLE CONSTRUCTION CORE AT TURNOVER.
2. ALL DOOR HARDWARE CLOSERS & THRESHOLDS TO BE ADA COMPLIANT.
3. COORDINATE KEYING SCHEDULE WITH OWNER.
4. ALL ALUM ENTRY DOOR HARDWARE TO BE PROVIDED BY ALUMINUM DOOR SUPPLIER. PUSH/PULLS TO BE MANUFACTURER STANDARD, 1" DIA. WITH 7" OFFSET WITH BENT (OFFSET) VERTICAL PULL, EACH SIDE.
5. DOR HARDWARE BASED ON THE FOLLOWING (OR EQUAL):
   - A. CYLINDRICAL LOCKSETS: SCHLAGE ND SERIES
   - B. PUSH PULL: ROCKWOOD GEOMETEK RM7920
   - C. KEYED CYLINDER: SCHLAGE B SERIES
   - D. KEY CARD ACCESS: MT11 SERIES
   - E. AUTOMATIC OPENER: LCN 2610 SERIES
   - F. FLOOR & WALL STOPS: ROCKWOOD ARCHITECTURAL SQUARE WALLS STOP AND TALL SQUARE FLOOR STOP
   - G. ALL OTHER ACCESSORIES: PEMKO
   - H. CLOSER: LCN 1000 SERIES
   - I. HIGH TRAFFIC CLOSER: LCN HSA CLOSER/HOLD OPEN
   - J. AUTO HOLD OPEN/CLOSER: LCN 2310 ME SERIES
   - K. PANIC HARDWARE: VON DUPRIN 98/99 SERIES
   - L. HINGES: STANLEY BUTTS FBB179 4 1/2x4 1/2
   - M. KICK PLATES: 10x34, SATIN NICKEL FINISH
   - N. ACCESSORIES: W. STRIP, THRESHOLD, WALL STOPS, ETC. BY PEMKO
   - O. FINISH TO BE SATIN NICKEL, UNO

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04.11.2024

AIM Center of Excellence at SLN
2625 Arnold Court
Salina, Kansas

PROJECT NUMBER:	23-133
PROJECT ARCHITECT:	SEG
PROJECT MANAGER:	ADT
DRAWN BY:	ADT, MGL, KPR
CHECKED BY:	MAE
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE
Door and Glazing Assembly Schedule & Elevations

HANGAR 626
SHEET NUMBER
A701.2

Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-133 Salina Airport Authority Aim Center_v23.rvt

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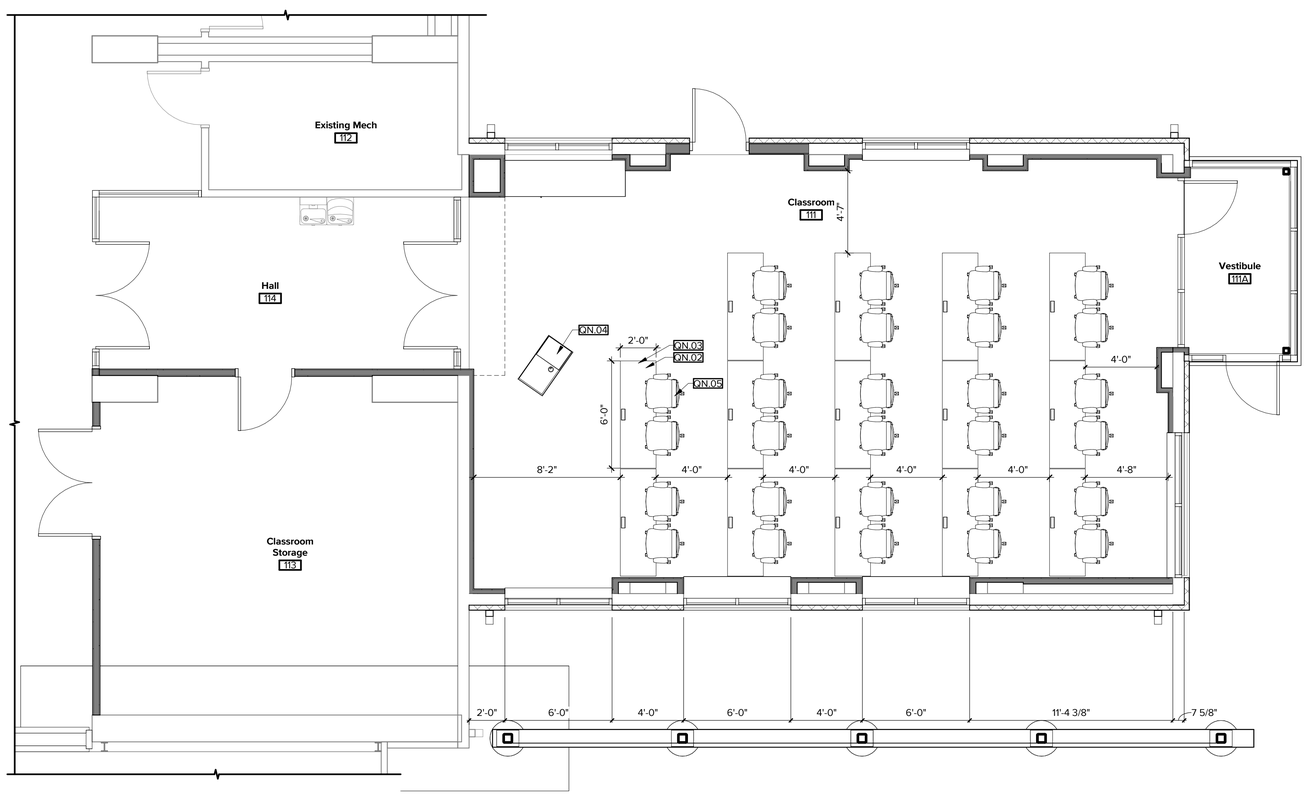

1 **FF&E Plan**
SCALE: 1/4" = 1'-0"

General Furniture & Equip. Notes

1. THIS PLAN PROVIDED FOR GENERAL USE ONLY. REF TO OWNER'S VENDOR FOR FINAL FURNITURE AND EQUIPMENT LOCATIONS.

CONTACT VENDOR FOR PRICING:
Design Central
Representative: Audrey George
Phone: 785.825.4131

Furniture & Equipment Keynotes

QN.02	NDI - RECTANGULAR TOP
QN.03	NDI - FLIPTOP TABLE
QN.04	NDI - LECTERN
QN.05	SITONIT - CHAIR

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ARCHITECT

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DRAWN BY:	ADT, MGL, KPR
CHECKED BY:	ADT
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

FF&E Plan

HANGAR 626

SHEET NUMBER

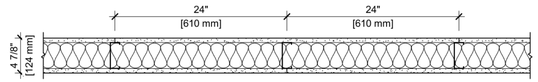
A801.2

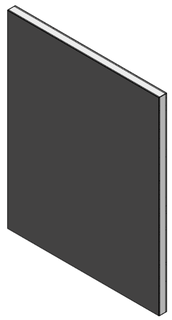
Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-133 Salina Airport Authority Aim Center_v23.rvt

4/9/2024 11:05:50 PM

DESIGN NO. UL U419

FIRE RATING:	1 HOUR
STC RATING:	48
SOUND TEST:	USG-180602
SYSTEM THICKNESS:	4-7/8" [124 MM]
LOCATION:	INTERIOR
FRAMING TYPE:	STEEL STUD (NONLOAD-BEARING)





ASSEMBLY REQUIREMENTS:

GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)
STEEL STUDS:	3-5/8" [92 MM] STEEL STUDS, EQ20 (0.018"), 24" [610 MM] O.C.
INSULATION:	3-1/2" [89 MM] FIBERGLASS INSULATION
GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

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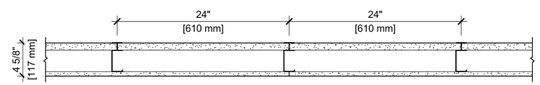
UL U419

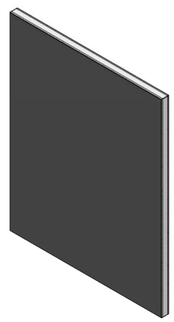
ISSUE RECORD:
Revision Date
10/05/2021 11:49:27 PM

SHEET INFORMATION:
SN-P-1-04

DESIGN NO. UL U415 UL System A

FIRE RATING:	1 HOUR
STC RATING:	39
SOUND TEST:	USG-040901
SYSTEM THICKNESS:	4-5/8" [117 MM]
LOCATION:	CORE-SHAFT
FRAMING TYPE:	STEEL STUD (NONLOAD-BEARING)





ASSEMBLY REQUIREMENTS:

GYPSUM PANELS:	ONE LAYER 1" [25.4 MM] SHEETROCK® GYPSUM LINER PANELS (UL TYPE SLX)
STEEL STUDS:	4" [102 MM] CH STUDS, 25 GA. (0.018"), 24" [610 MM] O.C.
GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

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UL U415 UL SYSTEM A

ISSUE RECORD:
Revision Date
24/05/2021 1:28:00 PM

SHEET INFORMATION:
SN-SW-1-02

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SCOTT E. GALES
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14126
04.11.2024
KANSAS
ARCHITECT

AIM Center of Excellence at SLN

2625 Arnold Court
Salina, Kansas

PROJECT NUMBER:	23-133
PROJECT ARCHITECT:	SEG
PROJECT MANAGER:	ADT
DRAWN BY:	Author
CHECKED BY:	Checker
ISSUE DATE:	04/11/2024
ISSUE RECORD:	100% CDs, Permit Set

REVISIONS

SHEET TITLE

UL Listings

HANGAR 626
SHEET NUMBER

A802.2

Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-133 Salina Airport Authority Aim Center_v23.rvt

4/9/2024 11:28:36 AM

NOTES - FOUNDATION

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH IBC CHAPTER 18 FOR USE OF PRESUMPTIVE LOAD-BEARING CAPACITY.
2. CONTRACTOR SHALL USE IBC SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER SOILS RELATED ITEMS.
3. ALL FOUNDATIONS TO BEAR ON ORIGINAL, UNDISTURBED SOIL. REMOVE ANY MUD, ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL PRIOR TO PLACING FOUNDATIONS.
4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY A QUALIFIED GEOTECHICAL ENGINEER PRIOR TO PLACING CONCRETE.
5. ALL EXTERIOR AND PERIMETER FOOTINGS SHALL EXTEND BELOW FROST DEPTH, REF DESIGN INFORMATION FOR FROST DEPTH.

NOTES - CONCRETE

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE GOVERNING EDITION OF THE ACI 318, AND ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, UNO.
2. WATER REDUCING ADD MIXTURES ARE ALLOWED IN CONCRETE MIX DESIGNS.
3. SYNTHETIC MICRO-FIBERS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.
4. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT THE EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
5. REF ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
6. REF ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
7. REF MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC.
8. CONTACT APEX ENGINEERS, INC. IF HOUSE KEEPING PADS OR INERTIA BASES ARE REQUIRED BEYOND WHAT IS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS.
9. ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."
10. REINFORCING SHALL BE CONTINUOUS WHEREVER POSSIBLE. SPLICES AND LAPS TO CONFORM TO ACI 318. REFER TO CONCRETE REBAR SCHEDULE.
11. DOWELS IN FOOTING, WALLS, AND DRILLED PIERS MUST BE IN POSITION BEFORE PLACING CONCRETE WHENEVER POSSIBLE.
12. REF TYP FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT WALL AND SLAB OPENINGS.
13. REF TYP FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT CORNER AND TEE INTERSECTIONS.
14. PROVIDE VERT CONTROL JOINTS ON ALL POURED CONCRETE WALLS AND BASEMENT WALLS, EXCEPT FOUNDATION STEM WALLS LOCATED IN THE GROUND. SPACE JOINTS AT 3 x WALL HEIGHT FOR WALLS LESS THAN 10'-0" AND WALL HEIGHT FOR TALLER WALLS. PROVIDE ADDITIONAL JOINT WITHIN 10'-0" OF CORNERS.
15. OPENINGS IN SLAB OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REF ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

NOTES - COLD-FORMED METAL FRAMING

1. CONTRACTOR IS RESPONSIBLE TO ADEQUATELY SHORE AND BRACE ALL FLOOR AND ROOF FRAMING AND WALLS DURING CONSTRUCTION.
2. ALL COLD-FORMED STEEL MEMBERS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION FOR THE SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AISI "AMERICAN IRON AND STEEL INSTITUTE."
3. STEEL FOR ALL COLD-FORMED STEEL MEMBERS AND PREFABRICATED CONNECTION HARDWARE SHALL CONFORM TO ASTM A1003, STRUCTURAL GRADE, TYPE H, METALLIC COATED. STEEL SHALL BE GALVANIZED WITH MINIMUM G60 COATING PER ASTM A653, UNO.
4. ALL FRAMING MEMBERS SHALL BE MANUFACTURED BY A MEMBER OF THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) AND BE MARKED WITH THE SSMA ADOPTED STANDARD DESIGNATOR SYSTEM NOMENCLATURE.
5. PREFABRICATED CONNECTION HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND USE ALL FASTENERS AS PRESCRIBED. CONNECTIONS SHALL BE ADEQUATE PER THE TYPE, SIZE AND NUMBER OF MEMBERS BEING CONNECTED. CONNECTION HARDWARE REQUIRE A VALID ICC ES REPORT OR EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA AC261.
6. WOOD STRUCTURAL PANELS TO BE APA RATED AND EXPOSURE 1. PANELS TO BE MANUFACTURED PER US DEPARTMENT OF COMMERCE PRODUCT STANDARDS PS1 OR PS2.
7. WELDED CONNECTIONS: ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING SOCIETY CODE - SHEET STEEL" (AWS D1.3) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODS FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 1.2 OF AWS D1.3. ALL WELDING TO BE DONE BY QUALIFIED WELDERS CONFORMING TO THE AMERICAN WELDING SOCIETY STANDARDS.
8. WELD BURN THROUGH IS NOT ALLOWED AND ALL WELDS TO SHALL BE TOUCH-UP WITH ZINC-RICH PAINT COMPLIANT WITH ASTM A780.
9. SELF-TAPPING FASTENING SCREWS SHALL BE COMPLIANT WITH ASTM C1513.
10. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
11. DEFLECTION CONDITIONS SHALL ALLOW FOR FRICTIONLESS, VERTICAL MOVEMENT.

NOTES - STEEL

1. ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. BOLTED CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GRADE A325 OR A490 BOLTS" PUBLISHED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
3. WELDED CONNECTIONS: ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING SOCIETY CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 3.1 OF AWS D1.1. ALL WELDING TO BE DONE BY QUALIFIED WELDERS CONFORMING TO THE AMERICAN WELDING SOCIETY STANDARDS.
4. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF APEX ENGINEERS, INC.
5. CHANGES IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS, AND HOLES, SLOTS, CUTS, ETC. THROUGH ANY MEMBER, ARE NOT PERMITTED UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
6. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
7. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP UNO.
8. ALL VISIBLE WELDED CONNECTIONS ON ARCHITECTURAL ELEMENTS TO BE GROUND SMOOTH. DO NOT REDUCE THROAT SIZE OF WELD.
9. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED IN THE CONTRACT DOCUMENTS. FABRICATOR TO PROVIDE ENGINEERED STAMPED SHOP DRAWINGS AND CALCULATIONS FOR ALL CONNECTIONS THAT DO NOT COMPLY WITH AISC STEEL CONSTRUCTION MANUAL CHAPTER 10 SIMPLE SHEAR CONNECTIONS.
10. STEEL MEMBERS ON THE EXT OF THE BUILDING OR EXPOSED TO SOIL MUST BE, AT A MIN, PROPERLY PRIMED WITH RUST INHIBITING PRIMER AND PAINTED. STEEL MEMBERS COMPLETELY ENCLOSED IN BUILDING ENVELOPE DO NOT REQUIRE PRIMER OR PAINT, UNO. REF ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS OF EXPOSED STEEL.

NOTES - GENERAL

1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
6. FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL LOWER AND UPPER SLABS ARE IN PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND-OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND FOOTINGS. FOOTINGS SHALL BE BACKFILLED EVENLY ON BOTH SIDES.
7. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
8. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN ON PLANS.
9. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
10. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND HE SHALL VERIFY THAT ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS ARE COORDINATED WITH THE DIMENSIONS AND REQUIREMENTS OF THE CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
12. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED AS SHOP DRAWINGS. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER TRADES. DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.
13. REVIEW AND RETURN OF SHOP DRAWINGS SHALL BE BASED ON A MINIMUM OF TEN (10) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE FROM RECEIPT OF SUBMISSION TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZE THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE NOTED ABOVE. DEFINITION OF A "LARGE VOLUME" OF SHOP DRAWINGS IS SUBJECT TO INTERPRETATION.

NOTES - DEFERRED SUBMITTALS

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL.
2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.
3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL.
6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION.
7. CONTRACTOR SHALL SUBMIT STRUCTURAL DEFERRED SUBMITTAL FOR THE FOLLOWING:
• GUARDRAILS AND HANDRAILS
• STEEL FABRICATED STAIRS AND LADDERS
• PRE-MANUFACTURED CANOPIES AND AWNINGS

NOTES - SHOP DRAWING SUBMITTALS

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. SHOP DRAWING REVIEW IS INTENDED FOR VERIFICATION OF DESIGN CONCEPT CONVEYANCE AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY.
2. CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MFR/FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNO.
3. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS SHOWN INCORRECTLY OR OMITTED AND NOT FLAGGED BY THE ENGINEER DURING REVIEW ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS.
4. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. DESIGNED SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
5. SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS NOT PERMITTED AND MAY RESULT IN REJECTION.
6. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.
7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING:
• CONCRETE MIX DESIGN, MATERIALS, AND TEST REPORTS
• CONCRETE REINFORCING STEEL, HARDWARE, AND FASTENERS
• STRUCTURAL STEEL FRAMING
• COLD-FORMED METAL FRAMING, HARDWARE, AND FASTENERS

MATERIAL SPECIFICATIONS

CONCRETE & REINFORCING STEEL SPECIFICATIONS

MATERIAL	SPECIFICATION
REINFORCING BARS	ASTM A615, GRADE 60
WELDED REBAR	ASTM A706
WELDED WIRE FABRIC	ASTM A1064
STUD RAIL ASSEMBLIES	ASTM A1044
PORTLAND CEMENT	ASTM C 150
FLY ASH	ASTM C 618, 15% MAX
CONCRETE AGGREGATES	ASTM C 33, 3/4" MAX AGGREGATE SIZE
EPOXY - THREADED ROD ANCHORS	HILTI HIT-HY 200 V3 A OR SIMPSON SET 3G
EPOXY - REINFORCING BARS	HILTI HIT-HY 200 V3 R OR SIMPSON SET 3G
POWDER-ACTUATED FASTENERS	HILTI 0.157" DIA X-U OR SIMPSON 0.157" DIA PDPA

REBAR CONDITIONS	MINIMUM CONCRETE COVER
FORMED SURFACES EXPOSED TO GROUND OR WEATHER	2"
UNFORMED SURFACE IN CONTACT WITH GROUND	3"
WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER	1"
INTERIOR BEAMS AND COLUMNS (TO TIES OR STIRRUPS)	1 1/2"

CONCRETE MIX DESIGNS

CONCRETE USE	WEIGHT	28 DAY f'c	CEMENT TYPE	MAX W/C	SLUMP (+/-1")	%AIR
FOOTINGS	NW	3500 psi	I/II	0.55	5"	6% MAX
FOUNDATION WALLS	NW	3500 psi	I/II	0.50	4"	6% +/- 1%
INT. SLAB ON GRADE	NW	4000 psi	I/II	0.45	5"	3% MAX

CONCRETE SLAB SPECIFICATIONS

FLATNESS CRITERIA	SPECIFICATION
FLOOR FLATNESS, FF	SOV: 35 | MLV: 25
FLOOR LEVELNESS, FL	SOV: 24 | MLV: 17

STEEL MATERIAL SPECIFICATIONS

MATERIAL	SPECIFICATION
WIDE FLANGE SHAPES (W)	ASTM A992
CHANNELS (C), ANGLES (L)	ASTM A36
HOLLOW STRUCTURAL SHAPES (HSS)	ASTM A500, GRADE C
PLATES, BARS	ASTM A36
CLEVISES	ASTM A668
TURNBUCKLES	ASTM F1145
HEADED ANCHOR STUDS	AWS D1.1 TYPE B / ASTM A29
HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325
ANCHOR BOLTS (HEX-HEAD UNO)	ASTM F1554 (55 KSI) "S1"
EPOXY ANCHOR RODS	ASTM A36
POWDER-ACTUATED FASTENERS	HILTI 0.157" DIA X-U OR SIMPSON 0.157" DIA PDPA
STEEL DECK, PLAIN STEEL	ASTM A1008, (33 KSI)
STEEL DECK, GALVANIZED	ASTM A653, (33 KSI)
NON-SHRINK GROUT, COLUMN BASES	5000 PSI (28 DAY STRENGTH)

COLD FORMED STEEL MATERIAL SPECIFICATION

MATERIAL	SPECIFICATION
43 MIL (18 GAUGE) MEMBERS AND LIGHTER	ASTM A-653, GRADE 33
54 MIL (16 GAUGE) MEMBERS AND HEAVIER	ASTM A-653, GRADE 50

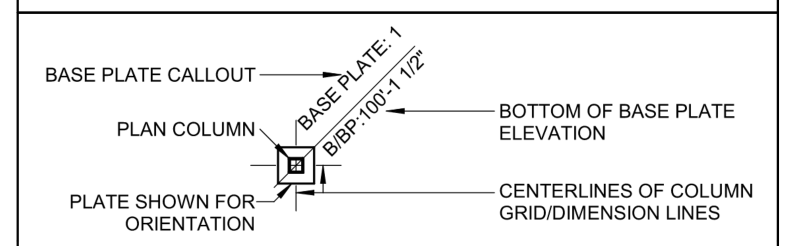
FRAMING SELF-TAPPING (S-T) SCREW SPECIFICATIONS

SIZE	DIAMETER	MIN HEAD DIAMETER	SCREW POINT / MAX MATERIAL THICKNESS
#6	0.138"	0.272"	#2 / 0.100"
#8	0.164"	0.272"	#2 / 0.100" #3 / 0.140"
#10	0.190"	0.340"	#2 / 0.100" #3 / 0.175"
#12	0.216"	0.340"	#3 / 0.210" #4 / 0.250" #5 / 0.500"
#14 OR 1/4"	0.250"	0.409"	#3 / 0.220" #5 / 0.500" #5 / 0.500"

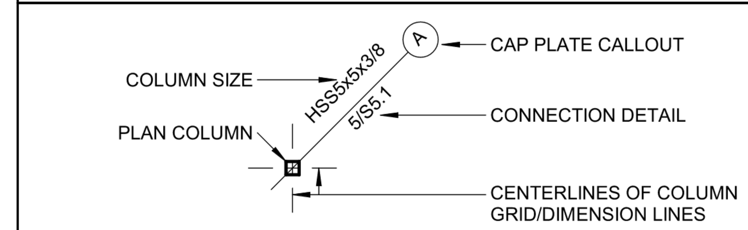
WELD THROAT SPECIFICATIONS

MEMBER GAUGE	WELD THROAT (tw)
33-MIL (20 GAUGE)	NO WELDING ALLOWED
43-MIL (18 GAUGE)	1/8"
54-MIL (16 GAUGE)	1/8"
68-MIL (14 GAUGE)	1/8"
97-MIL (12 GAUGE)	5/32"
118-MIL (10 GAUGE)	5/32"

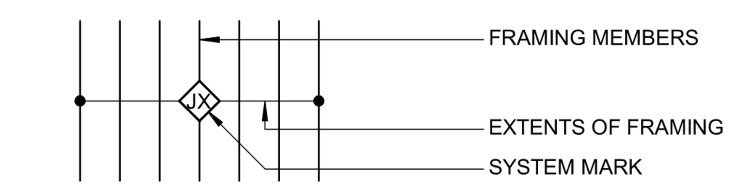
PLAN LEGENDS



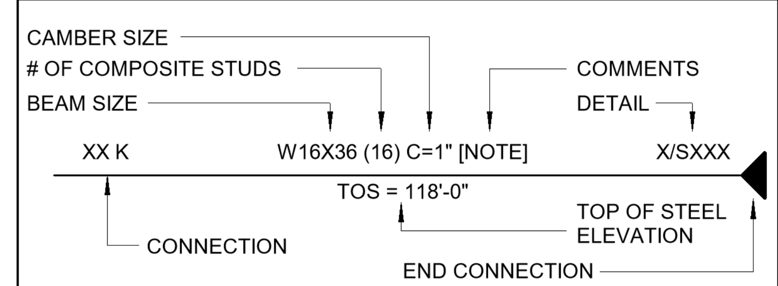
BASE PLATE TAG



COLUMN TAG



FRAMING SYSTEM TAG

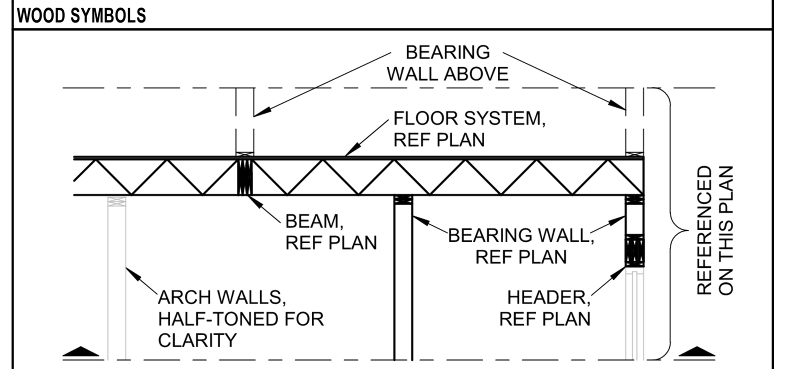


SYMBOL	END CONNECTION
(symbol)	MOMENT CONNECTION, REF DETAILS
(symbol)	BEAM SPLICE, REF DETAILS
(symbol)	EMBED PLATE, REF DETAILS

STEEL BEAM TAGS

SYMBOL	DESCRIPTION
(symbol)	CONCEALED FLANGE HANGER, REF SCHEDULE
(symbol)	JOIST HANGER, REF SCHEDULE
(symbol)	JOIST BEARING LOCATION
(X)	STUD PACK: (X) = REQUIRED NUMBER OF STUDS (STUD PACKS MUST BE AT LEAST MIN WIDTH OF THE MEMBER IT IS SUPPORTING, UNO. POSTS SUPPORTING MULTI-PLY LVL BEAMS TO HAVE (1) ADDITIONAL STUD THAN BEAM PLIES)
⊠	POST ABOVE. FRAMER MUST ENSURE THAT POST BEARS ON BEAM BELOW OR IS CONTINUOUS DOWN TO THE FOUNDATION LEVEL.

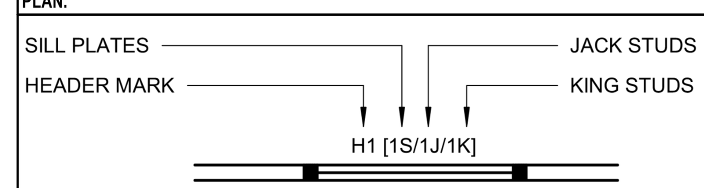
WOOD SYMBOLS



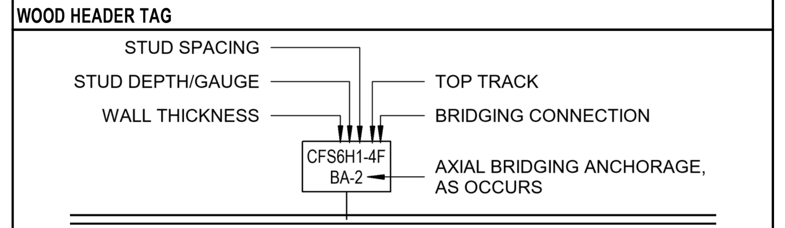
FRAMING LEGEND

NOTES:

1. THE FRAMING IN THIS EXAMPLE IS FOR REFERENCE ONLY, ACTUAL FRAMING SITUATIONS AND CONSTRUCTION TYPE MAY VARY.
2. ARCH WALLS ABOVE, NOT SHOWN FOR CLARITY.
3. FRAMING PLANS ARE CUT BELOW FRAMING LOOKING UP, SIMILAR TO A REFLECTED CEILING PLAN.



WOOD HEADER TAG



CFS WALL TAG

SYMBOLS & ABBREVIATIONS

SYMBOL		
X / SX.X	DETAIL ON SHEET SHEET NUMBER	DETAILS, SECTIONS, AND ELEVATIONS
TOW = XXX' - XX" BOW = XXX' - XX"	ELEVATION (TOP) ELEVATION (BOTTOM)	FOUNDATION WALLS AND LEDGES (SIM)
TOX XXX' - XX"	ELEVATION MARK	LEVELS, SPOT ELEVATIONS & PLAN ELEVATIONS
X (triangle)	REVISION MARK	SHEET REVISIONS

ABV	DEFINITION	ABV	DEFINITION
ARCH	ARCHITECT	LLV	LONG LEG VERTICAL
BO	BOTTOM OF	LONG	LONGITUDINAL
BOF	BOTTOM OF FOOTING	MECH	MECHANICAL
BOS	BOTTOM OF STEEL	MEP	MECH, ELECTRICAL, PLUMBING
BOT | [B]	BOTTOM	MFR	MANUFACTURER
BOW	BOTTOM OF WALL	NA	NOT APPLICABLE
BRG	BEARING	NS	NEAR SIDE
CTR | [C]	CENTER	NTS	NOT TO SCALE
CGS	CENTER OF GRAVITY STRAND	OC	ON CENTER
CIP	CAST-IN-PLACE	OPP	OPPOSITE
CJ	CONTRACTION/CONTROL JOINT	PAF	POWDER ACTUATED FASTENER
CL	CENTERLINE	PARL	PARALLEL
CLR	CLEAR	PERP	PERPENDICULAR
COL	COLUMN	PI	POST-INSTALLED
CONT	CONTINUOUS	PT	POST-TENSION
DIA	DIAMETER	RAD	RADIUS
DT	DRAG TRUSS	REF	REFERENCE
EA	EACH	RTU	ROOF TOP UNIT
EL	ELEVATION	SIM	SIMILAR
EOD	EDGE OF DECK	SOG	SLAB ON GRADE
EOR	ENGINEER OF RECORD	STD	STANDARD
EOS	EDGE OF STEEL	[T]	TOP
EQ	EQUAL	T&B	TOP AND BOTTOM
EW	EACH WAY	TO	TOP OF
[E]	EXISTING	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOD	TOP OF DECK
FS	FAR SIDE	TOF	TOP OF FOOTING
FRT	FIRE RETARDANT TREATED	TOL	TOP OF LEDGE
FV	FIELD VERIFY	TOM	TOP OF MASONRY
GA	GAUGE	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GT	GIRDER TRUSS	TR	TREATED
HAS	HEADED ANCHOR STUD	TRANS	TRANSVERSE
HORZ	HORIZONTAL	TYP	TYPICAL
INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE
ISO	ISOMETRIC	VERT	VERTICAL
LLH	LONG LEG HORIZONTAL	WP	WORK POINT

SHEET LIST - STRUCTURAL

SHEET NUMBER	SHEET NAME
S100	GENERAL NOTES AND SPECIFICATIONS
S110	SPECIAL INSPECTIONS AND SCHEDULES
S200	FOUNDATION PLAN
S210	FRAMING PLAN
S300	ELEVATIONS
S500	TYPICAL FOUNDATION DETAILS
S501	TYPICAL FOUNDATION DETAILS
S510	TYPICAL STEEL DETAILS
S520	TYPICAL CFS DETAILS

DESIGN INFORMATION

BUILDING CODE:

2012 INTERNATIONAL BUILDING CODE AS ADOPTED AND/OR AMENDED BY LOCAL BUILDING CODES

SOILS INFORMATION:

THE FOUNDATION DESIGN PROVIDED IS BASED OFF OF A MINIMUM ALLOWABLE PRESUMPTIVE LOAD-BEARING VALUE AS INDICATED BY IBC TABLE 1806.2 IN LIEU OF A SITE BASE GEOTECHNICAL EVALUATION. IT IS RECOMMENDED THAT A QUALIFIED GEOTECHNICAL ENGINEER BE RETAINED TO VERIFY THESE ASSUMPTIONS PRIOR TO CONSTRUCTION. BY USE OF THIS FOUNDATION DESIGN WITHOUT PROVIDING SUCH VERIFICATION, APEX WILL NOT BE LIABLE FOR THIS DESIGN PARAMETER, AND THE OWNER SHALL ACCEPT ALL RISKS ASSOCIATED WITH DAMAGE TO THE STRUCTURE AS A RESULT OF EXPANSIVE, COMPRESSIBLE, SHIFTING AND/OR DIFFERENTIAL MOVEMENT AS A RESULT OF DIFFERING SUBGRADE CONDITIONS BETWEEN EXISTING AND NEW FOUNDATION ELEMENTS.

FROST DEPTH	36"
PRESUMPTIVE LOAD-BEARING PRESSURE	1500 psf
WIND DESIGN DATA:	**Main Building**
OCCUPANCY CATEGORY	II
ULTIMATE WIND SPEED (3 SECOND GUST), V	115 mph
WIND EXPOSURE CATEGORY	C
VELOCITY PRESSURE, q_z	24.4 psf
INTERNAL PRESSURE COEFFICIENT, GC_{pi}	+/-0.18
WIND DESIGN COMPONENTS & CLADDING DATA:	**Main Building**
EDGE REGION, a	3' - 0"

WALL ZONES	10 SF	20 SF	50 SF	100 SF	200 SF
4 & 5	29 psf	28 psf	26 psf	25 psf	23 psf
4	-31 psf	-30 psf	-28 psf	-27 psf	-26 psf
5	-39 psf	-36 psf	-33 psf	-30 psf	-27 psf
ROOF ZONES	**10 SF**	**20 SF**	**50 SF**	**100 SF**	**500 SF**
1, 2 & 3	17 psf	16 psf	16 psf	16 psf	16 psf
1	-26 psf	-26 psf	-25 psf	-24 psf	-24 psf
2	-46 psf	-42 psf	-37 psf	-34 psf	-34 psf
3	-68 psf	-63 psf	-58 psf	-53 psf	-53 psf
2 OH	-54 psf	-54 psf	-54 psf	-54 psf	-54 psf
3 OH	-90 psf	-82 psf	-70 psf	-61 psf	-61 psf

SEISMIC DESIGN SITE DATA:	
SPECTRAL RESPONSE COEFFICIENTS	S_S = 0.076 S_1 = 0.048
SITE CLASS (ASSUMED)	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS	S_{DS} = 0.081 S_{D1} = 0.077
SEISMIC ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC DESIGN BUILDING DATA:	**Main Building**
LATERAL SYSTEM: A. BEARING WALL SYSTEMS, No. 11. ORDINARY PLAIN MASONRY SHEAR WALLS	
RESPONSE MODIFICATION, R	1.50
DEF. AMPLIFICATION FACTOR, C_d	1.25
OVERSTRENGTH FACTOR, Ω	2.50
SEISMIC RESPONSE COEF., C_s	0.054
SEISMIC BASE SHEAR, V	0.1 kip
SEISMIC DESIGN CATEGORY	B
SEISMIC RISK CATEGORY	II
ROOF SNOW LOAD DATA:	Main Building
GROUND SNOW LOAD, P_g	20 psf
SNOW LOAD IMPORTANCE FACTOR, I_s	1.00
SNOW EXPOSURE FACTOR, C_e	1.00
THERMAL FACTOR, C_t	1.00
FLAT ROOF SNOW LOAD, P_f	14 psf
SLOPE FACTOR, C_s	0.73
SLOPED ROOF SNOW LOAD, P_s	10 psf
MINIMUM SNOW LOAD, P_m	0 psf

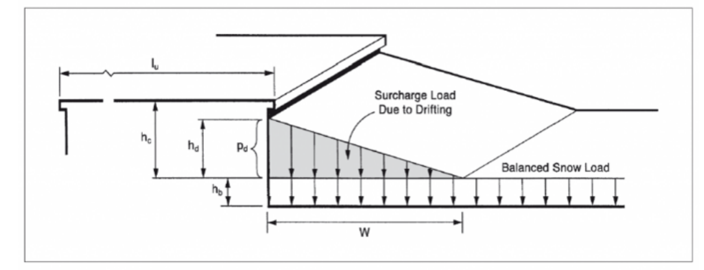


FIGURE 7-8 Configuration of Snow Drifts on Lower Roofs.

NOTE: DESIGNER MUST CONSIDER ALL SNOW LOAD CASES PER ASCE 7

COMMENTS	DRIFT DATA LOAD, Pd	WIDTH, W
GRID S.2	32.5 psf	8' - 0"

GRAVITY LOAD DATA:

OCCUPANCY OR USE	LOADS UNIFORM	POINT
ROOF DEAD LOADS		
• TYPICAL ROOF	19 psf	N/A
ROOF LIVE LOADS		
• ROOF AREAS NOT INTENDED FOR OCCUPANCY	20 psf	
• ROOF AREAS USED FOR ASSEMBLY PURPOSES	100 psf	
• ROOF AREAS USED FOR OCCUPANTS	SAME AS OCCUPANCY SERVED	
• ROOF AREAS USED FOR OTHER OCCUPANCIES	SAME AS OCCUPANCY SERVED	
• ROOF FABRIC AWNINGS AND CANOPIES SUPPORTED BY A SKELETON STRUCTURE	5 psf	
• ROOF SCREEN ENCLOSURE SUPPORT FRAME	5 BASED ON TRIBUTARY AREA OF ROOF SUPPORTED BY THE FRAME MEMBER	200 lbs
• ROOF: ALL OTHER CONSTRUCTION	20 psf	
• ROOF: ORDINARY FLAT, PITCHED, AND CURVED	20 psf	
• VEGETATIVE AND LANDSCAPED ROOFS	100 psf	

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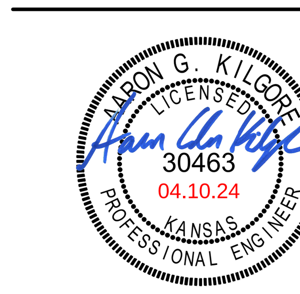

AIM Center of Excellence at SLN

2625 Arnold Court
Salina, Kansas

PROJECT NUMBER:	23-133
PROJECT ENGINEER:	NSH
PROJECT MANAGER:	AGK
DRAWN BY:	MAS
CHECKED BY:	AGK
ISSUE DATE:	4/11/2024
ISSUE RECORD:	PERMIT SET

REVISIONS

SHEET TITLE

GENERAL NOTES AND SPECIFICATIONS

SHEET NUMBER

S100

Autodesk Docs://23-133 Salina Airport Authority AIM Center/23-0640 - Salina Airport Authority AIM Center_APEX_R23.rvt

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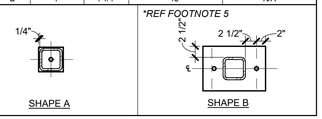
SCHEDULE - BASE PLATES

NOTES:
1. PROVIDE 5/16" FILLET WELD AT COLUMN TO BASE PLATE CONNECTION.
2. CAST-IN PLACE ANCHORS TO BE HEX-HEAD ASTM F1554 (55 KSI) UNO.
3. POST INSTALLED EPOXY ANCHORS TO BE THREADED ROD INSTALLED IN EPOXY PER MATERIAL SPECIFICATIONS, UNO.
4. POST INSTALLED HILTI KH-EZ ANCHORS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
5. BASE PLATE WITH LESS THAN (4) ANCHORS REQUIRE COLUMNS BE DESIGNATED AS POSTS AND SHALL BE TEMPORARILY BRACED DURING ERECTION PER OSHA PART 1926. BY OTHERS. BRACING MAY BE REMOVED ONCE ATTACHMENTS TO MAIN STRUCTURE ARE COMPLETE.
6. MAXIMUM SIZES OF ANCHOR-ROD HOLES IN BASE PLATES SHALL FOLLOW TABLE 14-2 OF THE AISC MANUAL. AN ADEQUATE WASHER SHOULD BE PROVIDED FOR EACH ANCHOR ROD.
7. PLATE WASHERS MUST BE WELDED TO THE BASE PLATE AT SHEAR TRANSFER CONDITIONS (I.E. MOMENT FRAME AND BRACED FRAME COLUMNS). PROVIDE 1/4" FILLET WELD ALL AROUND.

D = VARIES, COORDINATED WITH BEAM FLANGE WIDTH.
bf = WIDTH OF BEAM FLANGE.

TYPE	PLATE SHAPE	PLATE THICKNESS	BOLT DIAMETER	ANCHOR BOLT EMBED: CAST-IN-PLACE (HEX-HEAD)	ANCHOR BOLT EMBED: POST-INSTALLED / BOLT TYPE
BP: 1	A	1"	3/4"	8"	8"
BP: 2	B	1"	1 1/4"	18"	N/A



SCHEDULE - SHALLOW PIERS

MARK	DIAMETER	DEPTH	VERTICAL BARS	TIES
SP24	24"	8' - 0"	(8) #5	#4 AT 16" OC

SCHEDULE - TRENCH FOOTINGS

MARK	WIDTH	DEPTH	LONG BARS	STIRRUPS
TF18	1' - 6"	36"	(6) #5 CONT [(3) AT T&B]	#3 TIES AT 18" OC

SCHEDULE - FDTN WALLS

NOTES:
1. WHEN (2) MATS OF HORIZONTAL REINFORCING ARE SPECIFIED, PLACE THE VERTICAL MAT ON THE EXTERIOR FACE.

MARK	WIDTH	VERTICAL BARS	HORIZONTAL BARS	FOOTING DOWELS
FW12	12"	#5 AT 18" OC EA FACE	#5 AT 18" OC EA FACE	N/A

SCHEDULE - SLABS ON GRADE

NOTES:
1. PROVIDE CONTROL JOINTS (1/4 SLAB THICKNESS) SPACED AT 30xSLAB THICKNESS OC BOTH WAYS, NOT SHOWN FOR CLARITY.

MARK	SLAB THICKNESS	WEIGHT CLASS	SLAB REINFORCING	ADDITIONAL REQUIREMENTS
SG4	4"	NW	#3 AT 18" OC [C] EA WAY OR 6X6 W2.9XW2.9 WWF [C]	10 MIL VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK

SCHEDULE - BEAMS

MARK	BEAM SIZE	COMMENTS
B1	(2) 600S162-54 BOXED	

SCHEDULE - JOISTS

MARK	JOISTS	SPACING	COMMENTS
J1	600S162-54	24"	

SCHEDULE - SHEATHINGS

TYPE	SHEATHING TYPE	SUPPORT ATTACHMENT [EDGE / FIELD]	BLOCKED
ROOF	5/8" (NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 40/20 SPAN RATING DECK	#8 S-T SCREWS [6" OC / 6" OC]	No

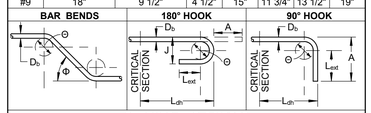
SCHEDULE - CONCRETE REBAR

DEVELOPMENT LENGTHS - L_d

BAR SIZE	f'c = 3000 PSI: STD TYP	STD TOP	CLASS B TYP	CLASS B TOP	BAR SIZE	f'c = 4000 PSI: STD TYP	STD TOP	CLASS B TYP	CLASS B TOP
#3	17"	22"	22"	28"	#3	15"	19"	19"	25"
#4	22"	29"	29"	38"	#4	19"	25"	25"	33"
#5	28"	36"	37"	47"	#5	24"	31"	32"	41"
#6	33"	43"	43"	56"	#6	29"	37"	38"	49"
#7	48"	63"	63"	82"	#7	42"	54"	55"	71"
#8	55"	72"	72"	94"	#8	48"	62"	63"	81"
#9	62"	81"	81"	106"	#9	54"	70"	71"	91"

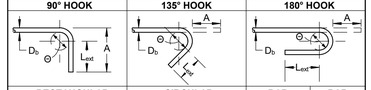
STANDARD HOOKS & BAR BENDS

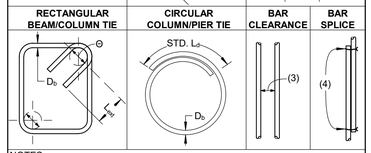
BAR SIZE	L_{dh}	"O"	180° HOOK: L_{ext}	180° HOOK: A	180° HOOK: J	90° HOOK: L_{ext}	90° HOOK: A
#3	6"	2 1/4"	2 1/2"	5"	3"	4 1/2"	6"
#4	8"	3"	2 1/2"	6"	4"	6"	8"
#5	10"	3 3/4"	2 1/2"	7"	5"	7 1/2"	10"
#6	12"	4 1/2"	3"	8"	6"	9"	12"
#7	14"	5 1/4"	3 1/2"	10"	7"	10 1/2"	14"
#8	16"	6"	4"	11"	8"	12"	16"
#9	18"	9 1/2"	4 1/2"	15"	11 3/4"	13 1/2"	19"



STIRRUPS, TIES, & HOOPS

BAR SIZE	"O"	90° HOOK: L_{ext}	90° HOOK: A	135° HOOK: L_{ext}	135° HOOK: A	180° HOOK: L_{ext}	180° HOOK: A
#3	1 1/2"	3"	4"	3"	4 1/4"	2 1/2"	4"
#4	2"	3"	4 1/2"	3"	4 1/2"	2 1/2"	5"
#5	2 1/2"	3 3/4"	6"	3 3/4"	5 1/2"	2 1/2"	6"
#6	4 1/2"	9"	12"	4 1/2"	8"	3"	8"
#7	5 1/4"	10 1/2"	14"	5 1/4"	9"	3 1/2"	10"
#8	6"	12"	16"	6"	10 1/2"	4"	11"





NOTES:
1. USE THE ABOVE TABLE UNLESS NOTED OTHERSIZE ON PLAN OR IN DETAILS.
2. PROVIDE 6" LAP AT ALL WELDED WIRE FABRIC JOINTS.
3. PROVIDE 1 D_b (1" MINIMUM) CLEARANCE BETWEEN ADJACENT BARS.
4. PROVIDE WIRE TIES AT EACH END OF BAR SPLICE.
5. DO NOT PROVIDE CLASS A SPLICE UNLESS SPECIFICALLY DETAILED.

AISC TABLE

O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

P - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.

AISC TABLE N5.4-1

INSPECTION TASKS PRIOR TO WELDING	QC	QA
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
4. WELDER IDENTIFICATION SYSTEM[1]	O	O
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
6. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
7. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O
8. CHECK WELDING EQUIPMENT	O	-

[1] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE

AISC TABLE N5.4-2

INSPECTION TASKS DURING WELDING	QC	QA
1. USE OF QUALIFIED WELDERS	O	O
2. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
3. NO WELDING OVER CRACKED TACK WELDS	O	O
4. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
5. WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH)	O	O
6. WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O

AISC TABLE N5.4-3

INSPECTION TASKS AFTER WELDING	QC	QA
1. WELDS CLEANED	O	O
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P
4. ARC STRIKES	P	P
5. K-AREA[1]	P	P
6. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
7. REPAIR ACTIVITIES	P	P
8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P

[1] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD

AISC TABLE N5.6-1

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

AISC TABLE N5.6-2

INSPECTION TASKS DURING BOLTING	QC	QA
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O

AISC TABLE N5.6-3

INSPECTION TASKS AFTER BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

AISC TABLE N6.1

INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	QC	QA
1. PLACEMENT AND INSTALLATION OF STEEL DECK	P	P
2. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P
3. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P	P

STATEMENT OF SPECIAL INSPECTION

IBC CODE REFERENCE	CONSTRUCTION TYPE	FREQUENCY CONT.	FREQUENCY PER.
1705.2	**STEEL CONSTRUCTION**		
1705.2.1	**STRUCTURAL STEEL**		
1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. (**REFER TO AISC CHARTS ON THIS SHEET**)			
1705.3	**REINFORCED CONCRETE**		
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.			X
2. INSPECTION OF REINFORCING STEEL WELDING:			
A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL, OTHER THAN ASTM A 706.			X
B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X		
C. SHEAR REINFORCING.	X		
D. OTHER REINFORCING STEEL.			X
3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR SD IS USED.	X		
4. INSPECTION OF ANCHOR INSTALLED IN HARDENED CONCRETE.			X
5. VERIFYING USE OF REQUIRED MIX DESIGN			X
6. AT THE TIME FRESH CONCRETE IS SAMPLED, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.			X
9. INSPECTION OF PRESTRESSED CONCRETE:			
A. APPLICATION OF PRESTRESSING FORCES.	X		
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X		
10. INSPECTION OF PRECAST CONCRETE MEMBERS.			X
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING.			X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.			X
SPECIAL INSPECTION AGENCY TO PERFORM TESTS AT SEVEN (7) DAYS AND AT TWENTY EIGHT (28) DAYS. A STRENGTH TEST SHALL BE THE AVERAGE OF THE STRENGTHS OF AT LEAST TWO (2) 6"x12" CYLINDERS OR AT LEAST THREE (3) 4"x8" CYLINDERS MADE FROM THE SAME SAMPLE OF CONCRETE. HOLD ONE ADDITIONAL CYLINDER IN RESERVE UNTIL PROJECT IS COMPLETED. TESTING LABORATORY IS TO FURNISH ARCHITECT/ENGINEER WITH TEST RESULTS PROMPTLY.			
FREQUENCY OF TESTING IS TO BE IN ACCORDANCE WITH ACI 318:			
A. ONCE EACH DAY A GIVEN CLASS IS PLACED, NOR LESS THAN.			
B. ONCE FOR EACH 150 CUBIC YDS OF EACH CLASS PLACED EACH DAY. NOR LESS THAN.			
C. ONCE FOR EACH 5000 SQFT OR SLAB WALL OR SURFACE AREA PLACED EACH DAY.			
1705.6	**SOILS**		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.			X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.			X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			X
1705.10.2	**COLD-FORMED STEEL FRAMING**		
1. MATERIAL VERIFICATION:			
A. MEMBER SIZE AND THICKNESS TO MATCH CONTRACT DOCUMENTS INCLUDING TRACKS, STUDS, ASSEMBLIES, CONNECTORS.			X
B. FASTENER MATERIAL AND COMPONENTS			X
2. INSPECTION OF INSTALLATION			
A. INSPECT MEMBER LAYOUT, CONNECTION, ORIENTATION			X
B. SPECIAL INSPECTION REQUIRED FOR FASTENERS PER MANUFACTURER.			X
C. INSPECTION PRIOR TO SHEATHING: VERIFY FLANGES ARE INTACT, STUDS ARE NOT CUT OR SPLICED.			X
3. INSPECTION OF WELDING.			X

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REVISIONS

SHEET TITLE

SPECIAL INSPECTIONS AND SCHEDULES

SHEET NUMBER

S110

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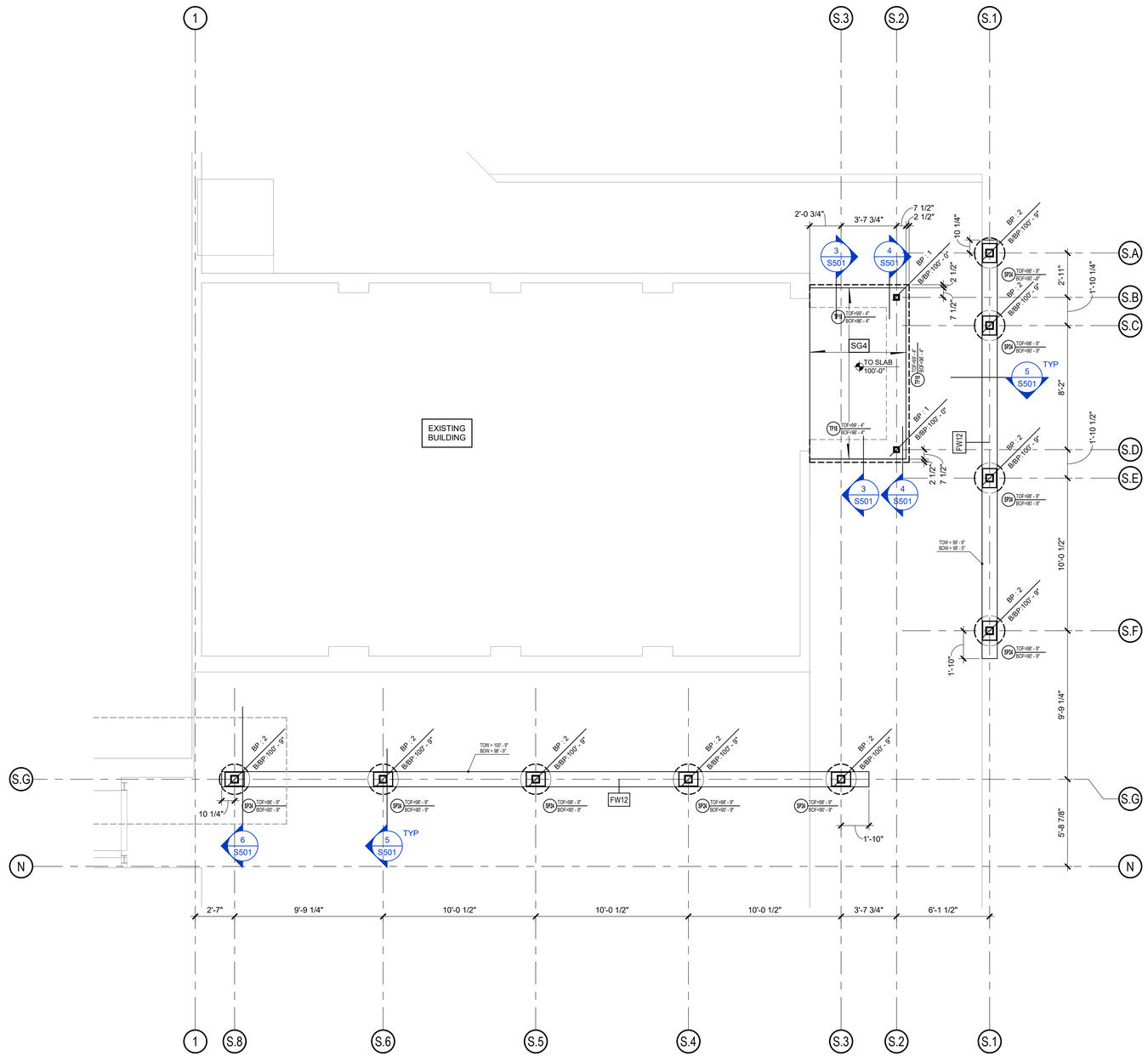


PLAN NOTES - FOUNDATIONS

1. CONTRACTOR TO VERIFY ALL FOUNDATION ELEVATIONS AND STEPS PER SITE CONDITIONS.
2. TOP OF SLAB ELEVATION SHOWN IN PLAN IS FOR REFERENCE ONLY.
3. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL OPENING DIMENSIONS, EXTERIOR FINISHES AND ADDITIONAL NOTES.
4. REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL FOUNDATION SPECIFICATIONS.
5. CONTRACTOR TO CONTACT APEX ENGINEERS, INC AT LEAST 48 HRS IN ADVANCE OF ANY CONCRETE POUR.
6. REF WALL SCHEDULES FOR ANCHOR BOLT REQUIREMENTS AND SPACING.

SCHEDULE - SHALLOW PIERS

MARK	DIAMETER	DEPTH	VERTICAL BARS	TIES
SP24	24"	8' - 0"	(8) #5	#4 AT 16" OC

SCHEDULE - TRENCH FOOTINGS

MARK	WIDTH	DEPTH	LONG BARS	STIRRUPS
TF18	1' - 6"	36"	(6) #5 CONT [(3) AT T&B]	#3 TIES AT 18" OC

SCHEDULE - FDTN WALLS

NOTES:
1. WHEN (2) MATS OF HORIZONTAL REINFORCING ARE SPECIFIED, PLACE THE VERTICAL MAT ON THE EXTERIOR FACE.

MARK	WIDTH	VERTICAL BARS	HORIZONTAL BARS	FOOTING DOWELS
FW12	12"	#5 AT 18" OC EA FACE	#5 AT 18" OC EA FACE	N/A

SCHEDULE - SLABS ON GRADE

NOTES:
1. PROVIDE CONTROL JOINTS (1/4 SLAB THICKNESS) SPACED AT 30xSLAB THICKNESS OC BOTH WAYS. NOT SHOWN FOR CLARITY.

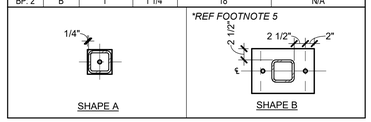
MARK	SLAB THICKNESS	WEIGHT CLASS	SLAB REINFORCING	ADDITIONAL REQUIREMENTS
SG4	4"	NW	#3 AT 18" OC [C] EA WAY OR 6X6 W2.9XW2.9 WWF [C]	10 MIL VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK

SCHEDULE - BASE PLATES

NOTES:
1. PROVIDE 5/16" FILLET WELD AT COLUMN TO BASE PLATE CONNECTION.
2. CAST-IN PLACE ANCHORS TO BE HEX-HEAD ASTM F1554 (55 KSI) UNO.
3. POST INSTALLED EPOXY ANCHORS TO BE THREADED ROD INSTALLED IN EPOXY PER MATERIAL SPECIFICATIONS, UNO.
4. POST INSTALLED HILTI KH-EZ ANCHORS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
5. BASE PLATE WITH LESS THAN (4) ANCHORS REQUIRE COLUMNS BE DESIGNATED AS POSTS AND SHALL BE TEMPORARILY BRACED DURING ERECTION PER OSHA PART 1926, BY OTHERS. BRACING MAY BE REMOVED ONCE ATTACHMENTS TO MAIN STRUCTURE ARE COMPLETE.
6. MAXIMUM SIZES OF ANCHOR-ROD HOLES IN BASE PLATES SHALL FOLLOW TABLE 14-2 OF THE AISC MANUAL. AN ADEQUATE WASHER SHOULD BE PROVIDED FOR EACH ANCHOR ROD.
7. PLATE WASHERS MUST BE WELDED TO THE BASE PLATE AT SHEAR TRANSFER CONDITIONS (I.E. MOMENT FRAME AND BRACED FRAME COLUMNS). PROVIDE 1/4" FILLET WELD ALL AROUND.

D = VARIES, COORDINATED WITH BEAM FLANGE WIDTH.
bf = WIDTH OF BEAM FLANGE.

TYPE	PLATE SHAPE	PLATE THICKNESS	BOLT DIAMETER	ANCHOR BOLT EMBED: CAST-IN-PLACE (HEX-HEAD)	ANCHOR BOLT EMBED: POST-INSTALLED / BOLT TYPE
BP: 1	A	1"	3/4"	8"	8"
BP: 2	B	1"	1 1/4"	18"	N/A



N

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

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DESIGNER NOTES

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FOUNDATION PLAN

SHEET NUMBER

S200

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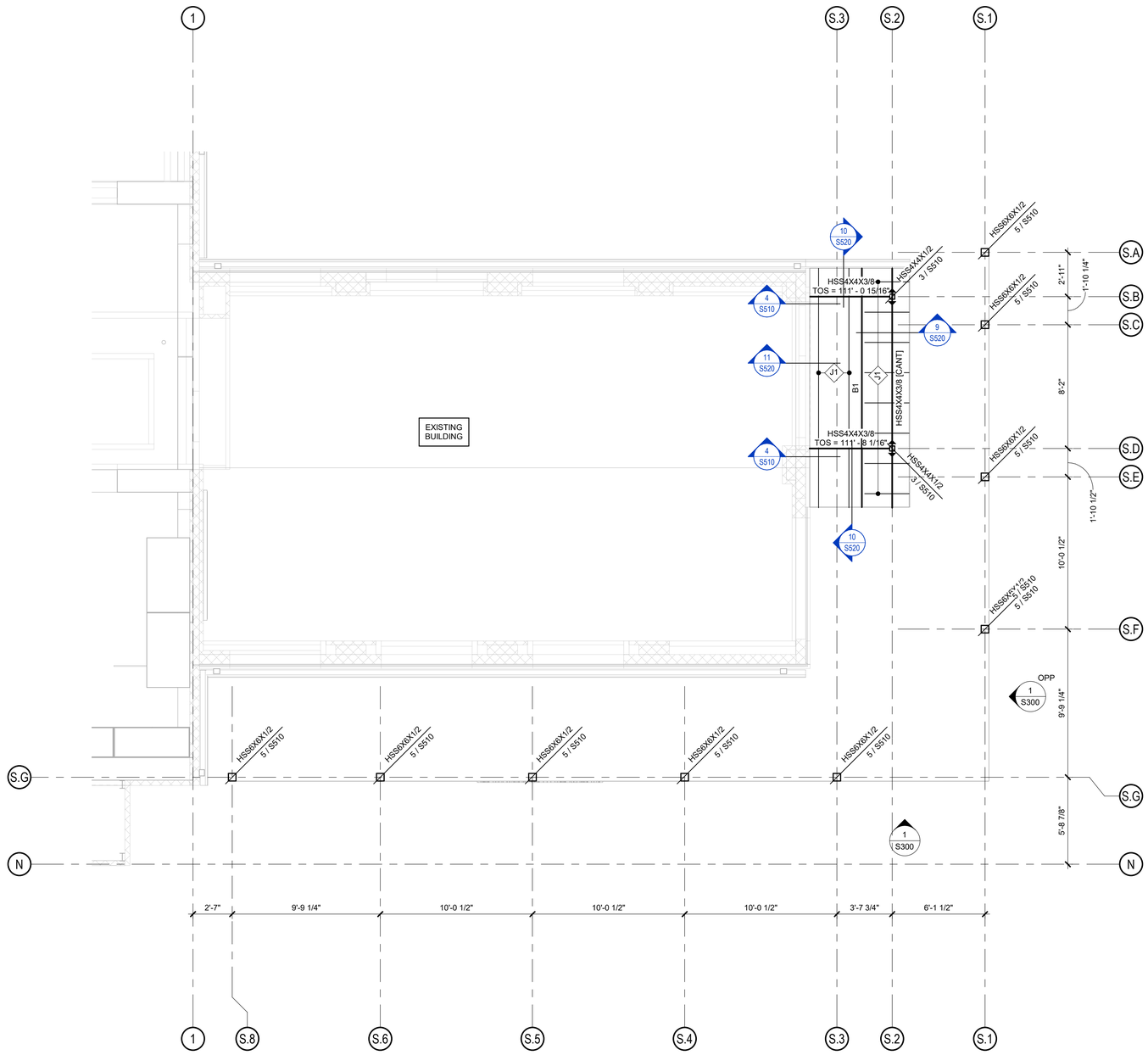

PLAN NOTES - STEEL ROOF FRAMING

1. REFERENCE PLANS FOR TOP OF STEEL ELEVATIONS.
2. BEAMS SHALL NOT BE CAMBERED UNLESS INDICATED IN BEAM CALLOUT.

SCHEDULE - JOISTS

MARK	JOISTS	SPACING	COMMENTS
J1	600S162-54	24"	

SCHEDULE - SHEATHINGS

TYPE	SHEATHING TYPE	SUPPORT ATTACHMENT [EDGE / FIELD]	BLOCKED
ROOF	5/8" (NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 40/20 SPAN RATING DECK	#8 S-T SCREWS [6" OC / 6" OC]	No

SCHEDULE - BEAMS

MARK	BEAM SIZE	COMMENTS
B1	(2) 600S162-54 BOXED	

FRAMING PLAN

1/4" = 1'-0"

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FRAMING PLAN

SHEET NUMBER

S210

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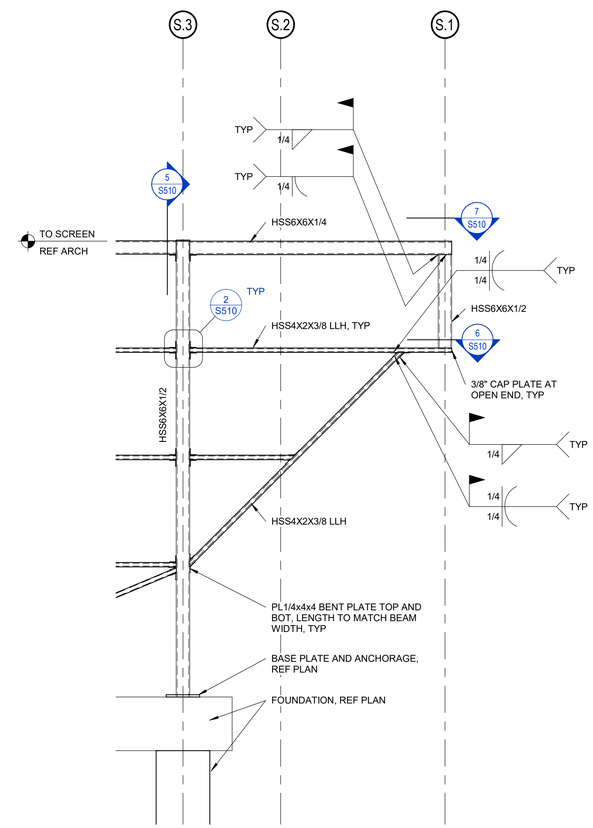

1 | SCREEN WALL CORNER ELEVATION

S300 | 3/8" = 1'-0"

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ELEVATIONS

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S300

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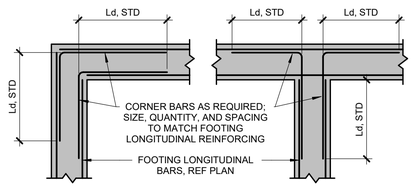
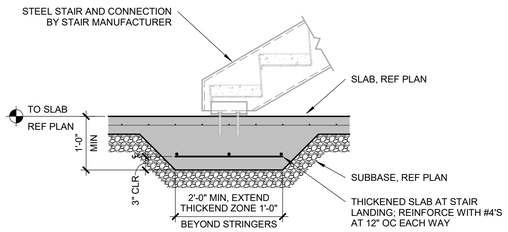
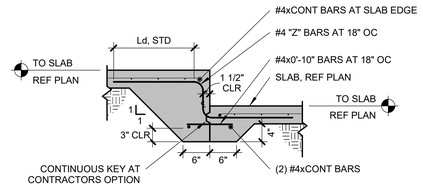


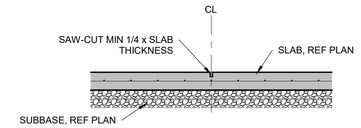
16 | TYPICAL FOUNDATION CORNER DETAIL
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



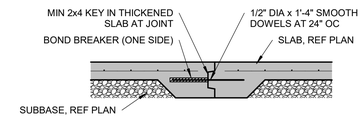
12 | TYPICAL THICKENED SLAB AT STEEL STAIR LANDING
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



8 | TYPICAL CONCRETE SLAB ON GRADE STEP
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*

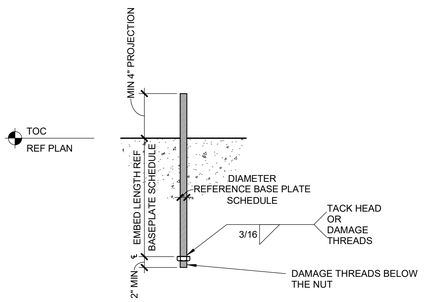


CONTRACTION JOINT DETAIL

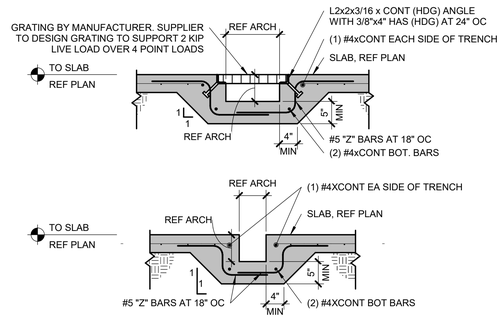


CONSTRUCTION JOINT DETAIL

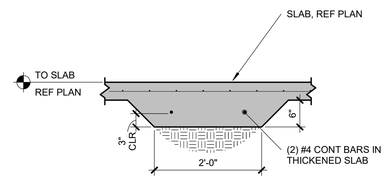
4 | SLAB ON GRADE CONTROL JOINT
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



14 | TYPICAL ANCHOR BOLT
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



11 | TYPICAL SLAB AT TRENCH
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



7 | TYPICAL THICKENED SLAB ON GRADE
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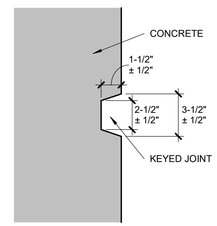
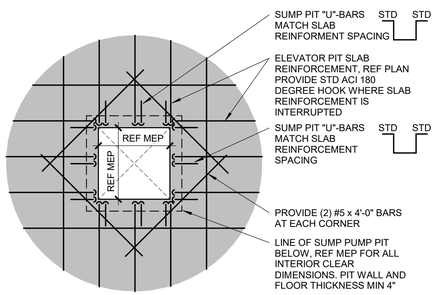
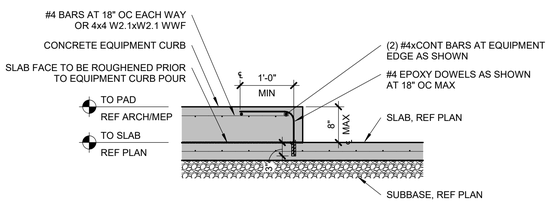


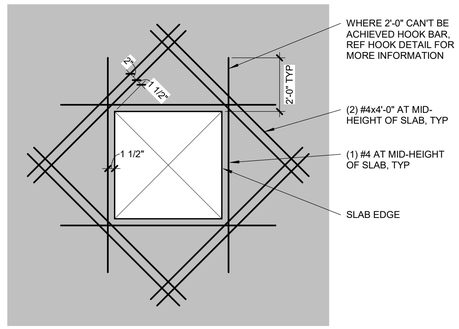
3 | TYPICAL KEY IN CONCRETE
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



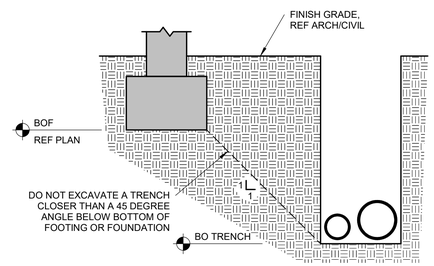
15 | TYPICAL SUMP PIT REINFORCEMENT
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



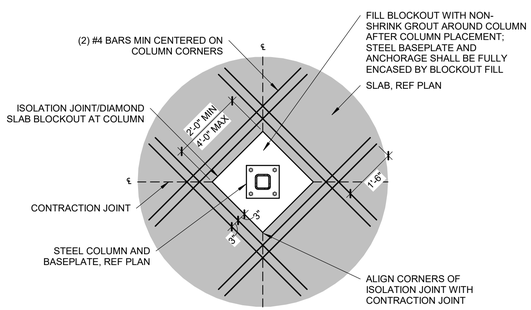
10 | TYPICAL SOG EQUIPMENT PAD
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



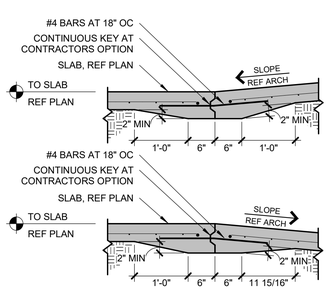
6 | TYPICAL OPENING IN CONCRETE SLAB ON GRADE
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



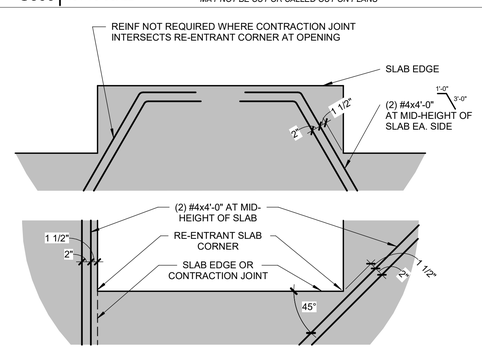
2 | MAXIMUM SLOPE BETWEEN FOUNDATION AND TRENCH
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



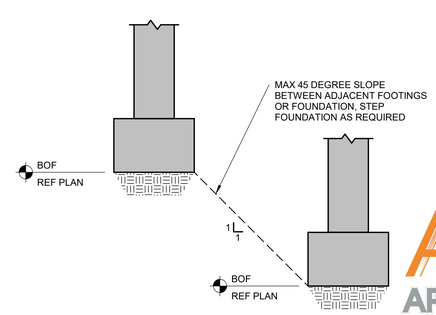
13 | TYPICAL STEEL COLUMN ISOLATION JOINT
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



9 | SLAB ON GRADE AT RAMP
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



5 | TYPICAL RE-ENTRANT CORNER IN CONCRETE SLAB ON GRADE
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*



1 | MAXIMUM SLOPE BETWEEN ADJACENT FOUNDATIONS
S500 | NOT TO SCALE | *THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS*

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PROJECT NUMBER:	23-133
PROJECT ENGINEER:	NSH
PROJECT MANAGER:	AGK
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CHECKED BY:	AGK
ISSUE DATE:	4/11/2024
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TYPICAL FOUNDATION DETAILS

SHEET NUMBER

S500

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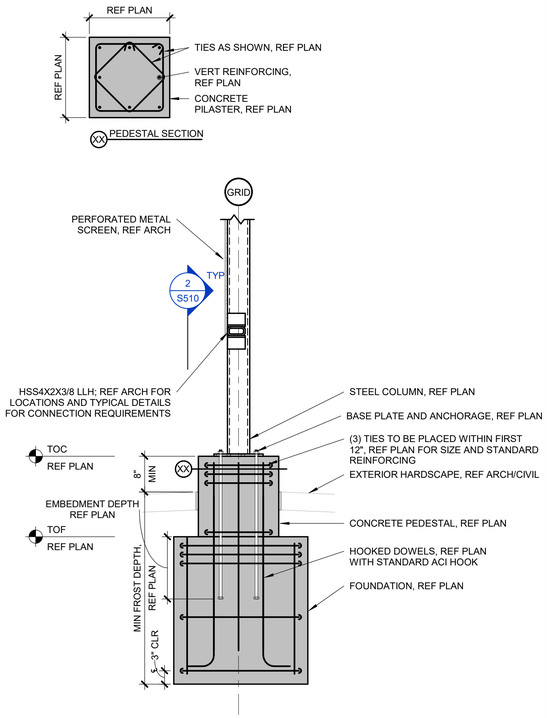
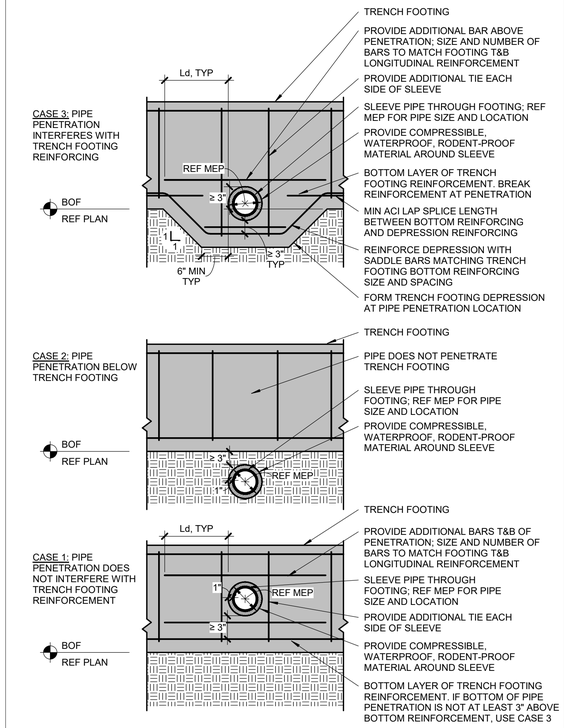
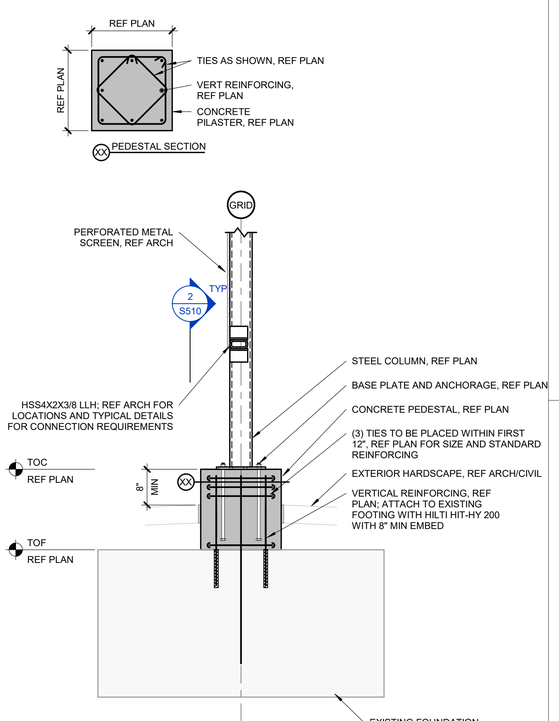


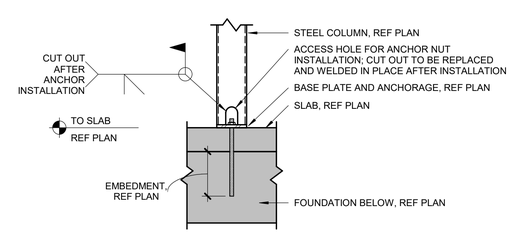
5 | EXTERIOR HSS COLUMN AT FOOTING
S501 | 3/4" = 1'-0"



2 | TRENCH FOOTING AT PIPE PENETRATION
S501 | NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS

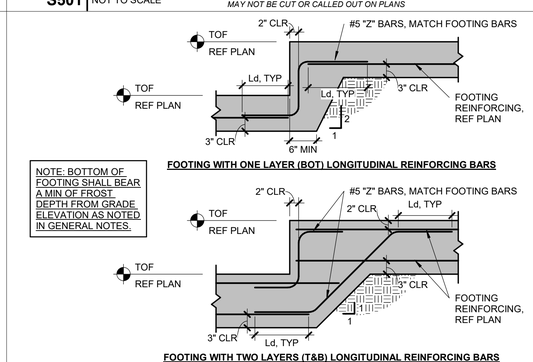


6 | EXTERIOR HSS COLUMN AT EXISTING FOOTING
S501 | 3/4" = 1'-0"

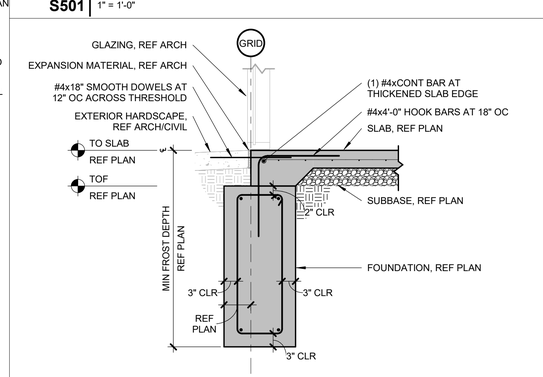


NOTE: POSTS SHALL BE TEMPORARILY SHORED DURING CONSTRUCTION PER OSHA PART 1926, BY OTHERS

4 | COLUMN WITH INTERNAL ANCHOR
S501 | 1" = 1'-0"



1 | TYPICAL FOOTING STEP
S501 | NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



3 | THRESHOLD AT TRENCH FOOTING
S501 | 3/4" = 1'-0"

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REVISIONS

SHEET TITLE

TYPICAL FOUNDATION DETAILS

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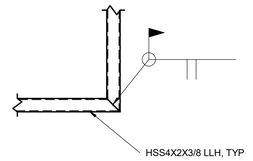
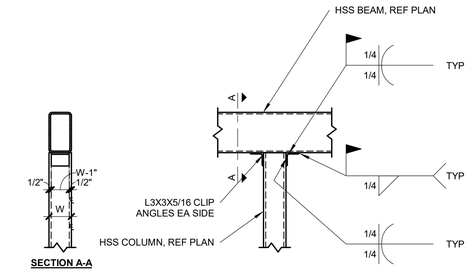
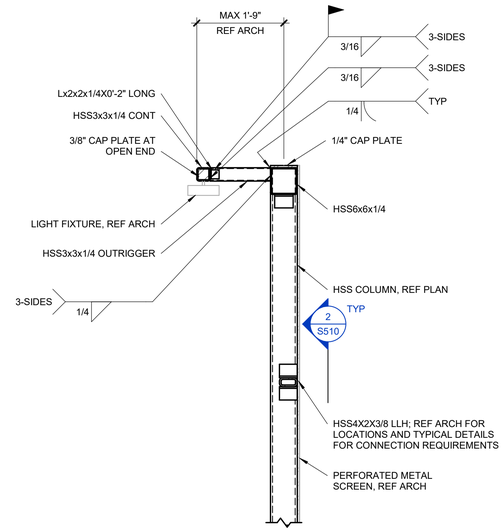


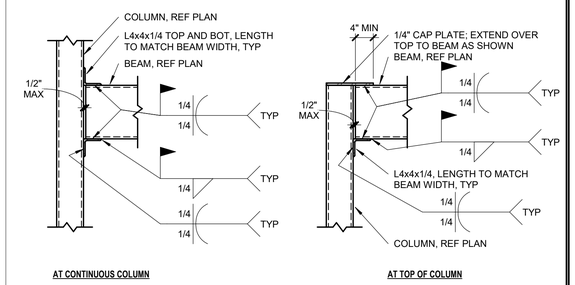
6 | TYPICAL HSS CONNECTION AT CORNER
S510 | 3/4" = 1'-0"



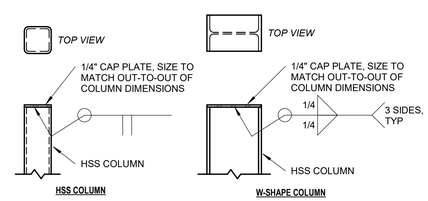
3 | HSS CONNECTION
S510 | 3/4" = 1'-0"



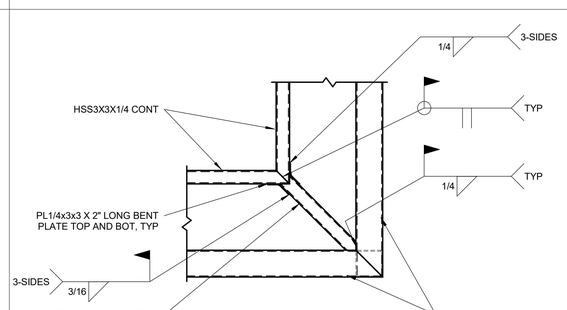
5 | LIGHT FIXTURE AT SCREEN POST
S510 | 3/4" = 1'-0"



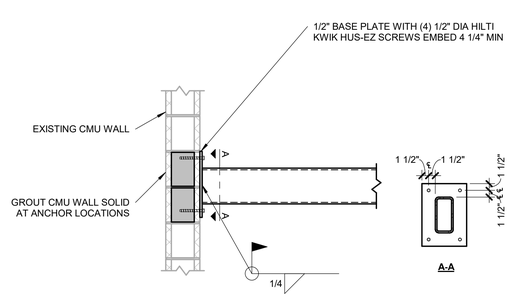
2 | TYP TUBE STEEL FRAMING CONNECTION
S510 | 3/4" = 1'-0"



1 | TYPICAL COLUMN CAP PLATE
S510 | 3/4" = 1'-0"



7 | LIGHT SUPPORT CONNECTION AT CORNER
S510 | 3/4" = 1'-0"



4 | HSS BEAM TO CMU WALL
S510 | 3/4" = 1'-0"

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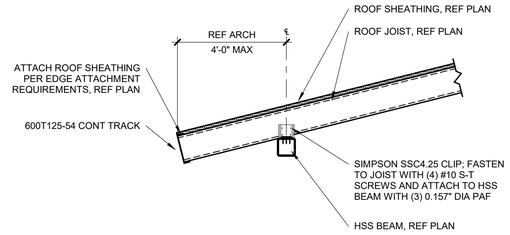
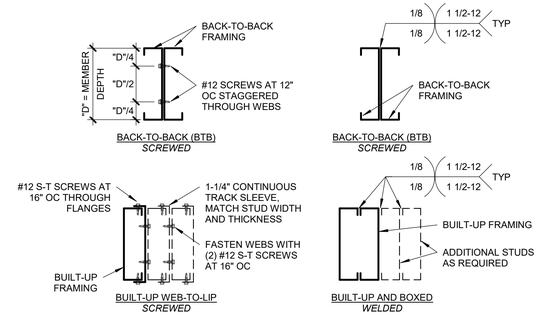
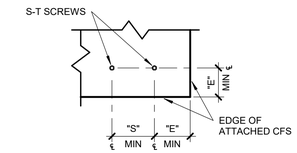


10 CFS JOIST PERPENDICULAR TO HSS BEAM
S520 3/4" = 1'-0"



NOTE: AT CONTRACTOR'S OPTION BUILT-UP MEMBERS MAY BE WELDED TO SCREWED TOGETHER UNO AND DICTATED IN PLAN OR DETAILS

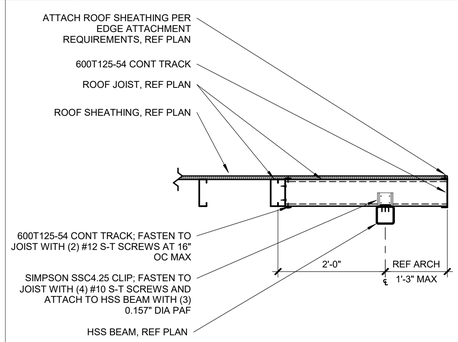
7 TYPICAL BUILT-UP COLUMN AND BEAM
S520 NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



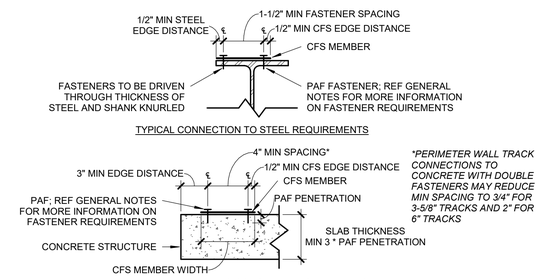
SELF-TAPPING (S-T) SCREW SIZE	"S" (3"d)	"E" (1.5"d)
#6 (d = 0.138", 0.272" HEAD)	1/2"	1/4"
#8 (d = 0.164", 0.272" HEAD)	1/2"	1/4"
#10 (d = 0.190", 0.340" HEAD)	5/8"	5/16"
#12 (d = 0.216", 0.340" HEAD)	3/4"	3/8"
1/4" (d = 0.250", 0.409" HEAD)	3/4"	3/8"

NOTES:
1. SELF-TAPPING SCREWS SHALL HAVE A MINIMUM PENETRATION OF (3) EXPOSED THREADS BEYOND THE LAST PLY JOINED.
2. ALL FASTENER HEADS SHALL BE FLUSH. COUNTERSUNK HEADS ARE NOT ALLOWED.
3. PRE-DRILLED HOLE DIAMETERS FOR FASTENERS SHALL NOT BE GREATER THAN d + 1/8".

4 TYPICAL CFS SELF-TAPPING SCREW MINIMUM SPACING
S520 NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS

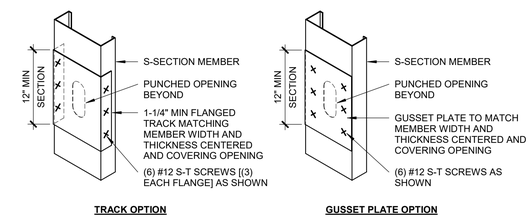


9 CFS JOIST AT OVERHANG
S520 3/4" = 1'-0"

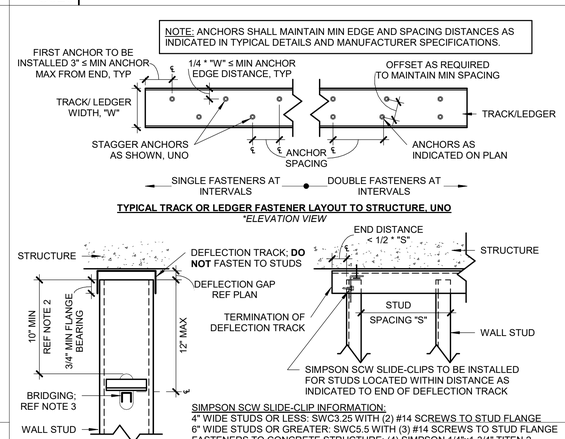


NOTE: POWDER-ACTUATED FASTENERS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. CONTRACTOR SHALL COORDINATE MANUFACTURER REQUIREMENTS ABOVE AND BEYOND THE REQUIREMENTS OF THIS DETAIL.

6 TYPICAL CFS PAF MINIMUM REQUIREMENTS
S520 NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



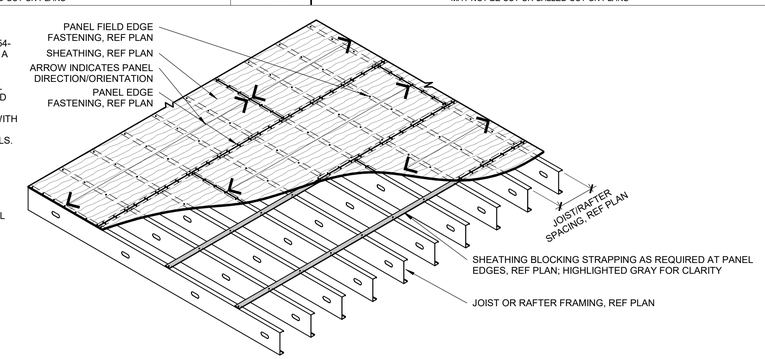
3 TYPICAL PUNCHOUT REINFORCING
S520 NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



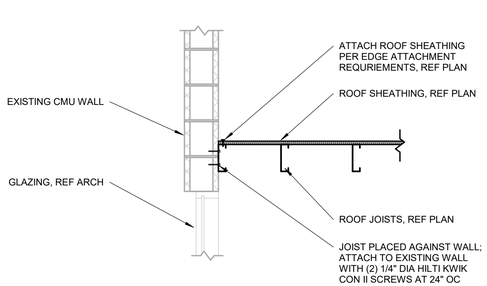
NOTES:
1. AXIAL LOAD BEARING WALL STUDS AND JOIST/RAFTER MEMBERS SHALL BE SEATED SQUARELY IN TRACKS WITH NO MORE THAN A 1/8" GAP BETWEEN THE END OF STUD AND TRACK PER AISI S240. NON-BEARING CURTAIN WALL STUDS MAY BE ALLOWED 1/4" GAP BETWEEN END OF STUD AND TRACK.
2. WHERE MIN END DISTANCE IS NOT ACHIEVABLE STUD OR JOIST/RAFTER PUNCH SHALL BE STIFFENED PER TYPICAL DETAILS.
3. TOP ROW OF BRIDGING REQUIRED AT DEFLECTION TRACK CONDITIONS. WHERE U-CHANNEL BRIDGING IS SPECIFIED BUT CAN NOT BE INSTALLED DUE TO SLOPED TOP TRACK CONDITION CONTRACTOR SHALL INSTALL STRAP BRIDGING AT SPECIFIED DIMENSION FROM END OF WALL STUD.

8 TYPICAL STUD/TRACK CONNECTIONS
S520 NOT TO SCALE
THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS

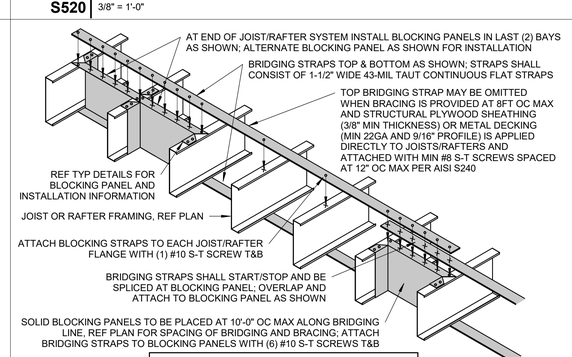
NOTES:
1. SHEATHING PANEL ATTACHMENT SCREWS SHALL BE #8 SCREWS FOR FRAMING MEMBERS HAVING A DESIGNATION THICKNESS OF 54-MILS OR LESS AND #10 SCREWS FOR FRAMING MEMBERS HAVING A DESIGNATION THICKNESS GREATER THAN 54-MIL, UNO
2. PANELS SHALL NOT BE LESS THAN 4'-0"x8'-0" EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING, WHERE MINIMUM PANEL DIMENSIONS SHALL BE 24" UNLESS SUPPORTED BY AND FASTENED TO FRAMING MEMBERS.
3. ALL SCREWS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. DO NOT OVERDRIVE SCREWS.
4. SCREWS SHALL BE LOCATED AT LEAST 3/8" FROM EDGE OF PANELS.
5. WHERE DIAPHRAGMS ARE DESIGNATED AS BLOCKED, BLOCKING STRAPPING SHALL BE PLACED AT ALL PANEL EDGES PERPENDICULAR TO FRAMING PER EDGE FASTENING REQUIREMENTS AND TO EACH FRAMING MEMBER WITH (1) #10 SCREW; STRAPPING IS PERMITTED TO BE PLACED ON TOP OR BELOW SHEATHING.
6. BLOCKING STRAPS SHALL CONSIST OF MINIMUM 1-1/2" WIDE 33-MIL TAUT CONTINUOUS FLAT STRAPS.



2 TYPICAL CFS WOOD DIAPHRAGM
S520 3/8" = 1'-0"



11 CFS JOIST PARALLEL TO EXISTING CMU WALL
S520 3/4" = 1'-0"



NOTE: BLOCKING HIGHLIGHTED IN GRAY FOR CLARITY.

5 TYPICAL JOIST/RAFTER BRIDGING AND BRACING
S520 NOT TO SCALE
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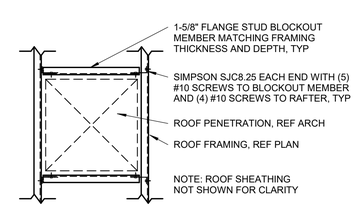

NOTE: THIS DETAIL APPLIES TO PENETRATIONS BETWEEN ROOF RAFTERS. CUTTING OF RAFTERS IS NOT PERMITTED.

1 TYPICAL ROOF PENETRATION
S520 NOT TO SCALE
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MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

- HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- CONICAL BELLMOUTH ROUND TAKEOFF
- ROUND DUCT RUNOUT WITH FLEX DUCT
- DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)
- XD — FD:FIRE DAMPER FS:FIRE/SMOKE DAMPER SD:SMOKE DAMPER BD:BACKDRAFT DAMPER (GRAVITY)
- MD — AUTOMATIC MOTORIZED DAMPER
- 8"ø (A) 225 — SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)
- LINEAR/SLOT DIFFUSER
- RETURN GRILLE OR EXHAUST REGISTER
- SUPPLY AIR FLOW INDICATOR
- RETURN AND EXHAUST AIR FLOW INDICATOR
- THERMOSTAT
- TEMPERATURE SENSOR
- H — HUMIDISTAT
- CONTROL WIRING

MECHANICAL PIPING

- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- D — DRAIN (CONDENSATE)
- CA — COMPRESSED AIR

PLUMBING PIPING

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- RECIRCULATING DOMESTIC HOT WATER
- SAN — WASTE ABOVE GRADE OR FLOOR
- SAN — WASTE BELOW GRADE OR FLOOR
- V — PLUMBING VENT
- W — WATER SERVICE
- G — GAS (NATURAL)

FIRE SPRINKLER

- F — FIRE PROTECTION PIPING
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- FIRE PROTECTION SIAMESE CONNECTION
- POST INDICATOR VALVE

PIPING SYMBOLS

- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- PLUG VALVE
- AUTO FLOW CONTROL VALVE
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE
- PIPING ELBOW
- PIPING TEE UP
- PIPING TEE DOWN
- INCREASER / REDUCER
- UNION
- CAP

PLUMBING FIXTURES/EQUIPMENT

- HB — HOSE BIBB
- WH — WALL HYDRANT
- CLEAN OUT
- RPZ — REDUCED PRESSURE BACKFLOW PREVENTER
- DCBP — DOUBLE CHECK BACKFLOW PREVENTER
- WC-1, S-1 — PLUMBING FIXTURE AND CALLOUT
- FD-1 — FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK
- RD-1 — RD: ROOF DRAIN ORD: OVERFLOW ROOF DRAIN

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

- HOME RUN (2#12 1#12G UNO)
- INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR
- HOME RUN: INDICATES SHARED CIRCUIT
- HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

LIGHTING

- LIGHT FIXTURE
- STRIP FIXTURE
- SURFACE/RECESSED LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- POLE-MOUNTED LIGHT FIXTURE
- EXIT LIGHT
- BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
- BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
- WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT
- \$ — LIGHT SWITCH - SINGLE POLE
- $\$_3$ — LIGHT SWITCH - 3-WAY
- $\$_4$ — LIGHT SWITCH - 4-WAY
- $\$_D$ — LIGHT SWITCH - DIMMER
- $\$_3^D$ — LIGHT SWITCH - 3-WAY DIMMER
- $\$_M$ — WALL-MOUNTED MOTION SWITCH
- M — CEILING-MOUNTED MOTION SWITCH

EQUIPMENT

- DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER
- TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
- SURFACE PANELBOARD
- DISTRIBUTION PANELBOARD

TELEPHONE/DATA

- TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
- TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)
- W — WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
- W — CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION

POWER DEVICES

- DUPLEX RECEPTACLE.
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- GFI — SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
- QUADPLEX RECEPTACLE
- 5-50R — SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED
- 5-50R — MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
- CEILING MOUNTED RECEPTACLE
- RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"
- POKE-THRU WITH POWER
- POKE-THRU WITH TELECOMMUNICATIONS
- POKE-THRU W/POWER AND TELECOM
- 1G — SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR)
- DIVIDED POWER POLE
- C — CLOCK RECEPTACLE
- PLUG MOLD / WIRE MOLD AS SPECIFIED
- J — JUNCTION BOX
- E T — THERMOSTAT - ELECTRIC
- PUSH BUTTON
- MOTOR

FIRE ALARM

- F — MANUAL PULL STATION
- D — CEILING SMOKE DETECTOR
- D — DUCT SMOKE DETECTOR
- H — HEAT DETECTOR
- 75 — VISIBLE NOTIFICATION DEVICE WITH CANDELA RATING. 75cd RATING UNLESS OTHERWISE NOTED ON PLANS.
- 30 — AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH CANDELA RATING. 75cd UNLESS OTHERWISE NOTED ON PLANS.
- HORN
- 75 — CEILING-MOUNTED STROBE LIGHT WITH CANDELA RATING. MINIMUM OF 75cd RATING.
- 30 — CEILING-MOUNTED COMBINATION HORN/STROBE WITH CANDELA RATING. MIN. OF 75cd RATING.
- CEILING-MOUNTED HORN
- CEILING-MOUNTED SPEAKER
- R — RELAY
- FACP — FIRE ALARM CONTROL PANEL

15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 – MECHANICAL REQUIREMENTS

1. GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING, MECHANICAL & PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

B. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.

C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.

D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.

E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.

F. WARRANT TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.

G. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

H. ROOF PENETRATIONS – MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 – PLUMBING

1. PIPING

A. WATER PIPING – ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS. THINCKNESS IN ACCORDANCE W/ ASHRAE 90.1.

B. WASTE & VENT PIPING – CI BELL & SPIGOT OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.

C. GAS PIPING – PROVIDE SCHED 40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THREADED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS. PAINT ALL EXPOSED GAS PIPING ON THE EXTERIOR OF THE BUILDING INCLUDING ON THE ROOF.

2. VALVES

A. BALL VALVES – 2" & UNDER – BRONZE FULL PORT W/ TEFLOW SEATS, BRONZE BALL & INSULATED HANDLE.

B. BALANCING VALVES – ARMSTRONG MODEL CBV I OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.

C. CHECK VALVES – 2" 7 SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLON OR BRONZE DISC & SEAT RING. 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200 PSI-WOG/125 PSI-WSP.

D. BUTTERFLY VALVES – 3" & LARGER LEVER ASTM A126 CI DRILLED & TAPPED FULL LUG BODY, 200 PSI-WOG, EXTENDED NECK, BRONZE DISC, STAINLESS STEEL STEM, FIELD-REPLACEABLE EPDM SLEEVE & STEM SEALS.

E. EQUIVALENT VALVE MANUFACTURERS: MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APPOLO, MUELLER, MUESSCO, WATTS, HAYS, ROCKWELL-NORDSTROM.

FIXTURES – SEE SCHEDULES

A. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO
B. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL
C. FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC.
D. SEATS: CHURCH, OLSONITE, BEMIS OR BENEKE.
E. TRIM BY DELTA, ELJER, KOHLER, AMERICAN STANDARD, CRANE, SLOAN.
F. FLUSHVALVES: SLOAN, ZURN, TOTO
G. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.

EXECUTION

A. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.

B. AFTER PIPING IS IN PLACE TEST LINES TO ENSURE NO LEAKS.

C. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.

D. ESCUTCHEONS – PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.

E. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.

SECTION 15300 – HVAC

GENERAL

A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.

B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NEC, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.

DUCTWORK

A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.

B. EXPOSED SPIRAL DUCT SHALL BE DOUBLE WALL SPIRAL INTERIOR INSULATED WITH PERFORATED LINER WITH 1" INSULATION R VALUE OF 4 MINIMUM.

C. VOLUME DAMPERS SHALL BE MANUAL LOCKING BLADE TYPE.

D. DISHWASHER EXHAUST DUCT SHALL BE NEW COMMERCIAL QUALITY, BRIGHT TYPE 302 STAINLESS STEEL. CONSTRUCTION SHALL BE WELDED. DUCTWORK SHALL SLOPE TO DRAIN.

E. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.

F. WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTEED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. ALSO LINE FIRST 10' OF SUPPLY DUCTWORK FOR SOUND ATTENUATION (IN ADDITION TO WRAP) LINE ALL RETURN AIR DUCTS & TRANSFER BOOTS W/ ½" LINER. DO NO WRAP EXPOSED SPIRAL DUCTS.

G. EXTERNAL FIRE INSULATION FOR GREASE DUCTS – 2 HR. FIRE RESISTANCE RATING SHALL BE PABCO SUPER FIRETIMP-L. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. EQUIVALENT BY 3M DUCTWRAP, PROVIDE (2) 1 ½" LAYERS.

SPECIALTIES

A. FLEXIBLE DUCTS – THERMAFLEX OR EQUAL SOUND RATED TYPE G-KM INSULATED. (DUCT W/O PUBLISHED ACOUSTICAL ATTENUATION RATINGS NOT ACCEPTABLE) TAKE OFF FITTING SHALL BE HI-EFF STYLE W/ LOCKING DAMPER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 7'-0".

B. DIFFUSERS & GRILLES – SEE SCHEDULE. EQUIVALENT BY PRICE, TUTTLE & BAILEY, TITUS, MATEL-AIRE, KREUGER, NAILOR. COORDINATE COLOR, MOUNTING W/ DUCT, CEILINGS, ARCHITECT.

C. LOUVERS – GREENHECK TYPE FSK-400 FABRICATED GALVANIZED STEEL LOUVER W/ TRIM FLANGE. EQUIVALENT BY RUSKIN, LOUVERS & DAMPERS, GREENHECK, AMERICAN WARMING 7 VENTILATING, INDUSTRIAL LOUVERS, ACME. COORDINATE FINISH W/ ARCHITECT.

PIPING

A. REFRIGERANT PIPING – COPPER TUBE TYPE ACR, HARD TEMPER NITROGENIZED REFRIGERANT TUBE, ASTM B-88. TYPE L OR K. BRAZED JOINTS. INSULATE W/ ARMAFLEX IN THICKNESS PER ASHRAE 90.1. PROVIDE EXTERIOR RATED OR COATED ARMAFLEX OUTDOORS.

EQUIPMENT

A. FURNACES, EVAPORATORS, & CONDENSING UNITS AS SCHEDULED. MIN 90% EFF NATURAL GAS, AGA CERT. ALUMINIZED STEEL HX, MULTI-SPEED DIRECT DRIVE BLOWER MOTOR. PROVIDE 2" OR 3" PLASTIC C/A & FLUE PIPING COMPLETE W/ CONCENTRIC TERMINATION KITS. 2" MERV 7 FILTERS. MOUNT FILTER IN SLIDE RACK W/ HINGED DOOR & LATCH IN R/A DUCT WORK. COIL – BLOW-THRU D/X MODULE, FULLY INSULATED METAL CASING W/ DRAIN PAN & DUCT FLANGES, COPPER TUBES W/ ALUMINUM FINS, W/ TXV. CONDENSING UNIT – HEAVY GAUGE BASE, SCROLL COMPRESSOR(S). RATED SEER NOT LESS THAN 10.3. (1) YR PARTS & LABOR SYSTEM WARRANTY & ADDITIONAL 4 YR COMPRESSOR ONLY WARRANTY. ANTI-SHORT CYCLE PREVENTION CONTROLS. LOUVERED COIL HAIL GUARDS. 30 DEG LOW AMBIENT. EQUIVALENT BY TRANE, LENNOX, YORK, CARRIER, DAIKIN.

B. EXHAUST FANS – EQUIVALENT BY COOK, PENN, ACME, GREENHECK, JENNAIRE, TWIN CITY. PROVIDE W/ SPEED CONTROLS FOR ALL FANS LESS THAN 1/3HP TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE W/ 14" MIN. CURB. PROVIDE GREASE TRIM & VENTILATED CURB EXTENSIONS FOR GREASE FANS.

C. PROVIDE PROGRAMMABLE THERMOSTATS W/ STAGES OF HEATING AND COOLING AS REQUIRED BY STAGES OF HEATING AND COOLING ON SPECIFIED EQUIPMENT. SEVEN (7) DAY PROGRAMMING CAPABILITY W/ 2 OCC/UNOCC PERIODS/DAY. AUTO HEAT/COOL CHANGE OVER. LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, TRANE, CARRIER, AAON, LENNOX, DAIKIN, OR APPROVED EQUAL.

D. MAKE-UP AHU – SEE SCHEDULE. HEAVY GAUGE GALV STEEL CONSTRUCTION. 1" METAL MESH FILTERS, BELT DRIVEN DWDI, FC FAN. FAN & MOTOR ASSEMBLY MTD ON VIBRATION ISOLATORS. SHAFT SHALL BE MTD IN HD, SEALED BALL BEARINGS. ADJUSTABLE SHEAVES. 150% HP DRIVES AGA DIRECT GAS FIRED & C.G.A. APPROVED. CONTROLS SHALL INCLUDE MAIN GAS PRESSURE REGULATOR, MODULATING GAS VALVE, ELECTRIC SPARK IGNITION PILOT RE-LIGHT SYSTEM, SAFETY PILOT, HIGH LIMIT & 24V CONTROL TRANS. EQUIVALENTS BY CAPTIVEAIR, GREENHECK, TRANE, ENGINEERED AIR, REZNOR, HASTINGS, STERLING, AAON, DAIKIN.

EXECUTION

B. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.

C. PROVIDE GROUND-MOUNTED UNITS ON 4", REINFORCED CONCRETE BASE, 4" LARGER THAN UNIT ON EACH SIDE.

D. PROVIDE FACTORY-AUTHORIZED SERVICE START UP ON EQUIPMENT. TRAIN OWNER'S MAINTENANCE PERSONNEL ON STARTUP, SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE.

SECTION 15900 – SYSTEM TESTING & BALANCING

A. CONTRACTOR SHALL PROVIDE TEST AND BALANCE SERVICES. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED & MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED, TESTS SHALL BE CONDUCTED IN PRESENCE OF A/E RESPONSIBLE FOR PROJECT &/OR REPRESENTATIVE. TAB CONTRACTOR SHALL BE CERTIFIED BY NEBB OR AABC & ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ ORGANIZATIONS PUBLISHED PROCEDURE MANUALS.

B. TESTING & BALANCING (TAB) OF BUILDING HVAC SYSTEMS WILL BE COMPLETED NEAR END OF CONSTRUCTION. M/C HAS RESPONSIBILITY TO COOPERATE W/, MAKE ADJUSTMENTS FOR & PROVIDE EQUIPMENT NECESSARY FOR TAB CONTRACTOR TO COMPLETE JOB.

C. PRIOR TO REQUESTING TAB CONTRACTOR TO PERFORM WORK, INSTALLING CONTRACTOR SHALL MAKE ALL NECESSARY INSPECTIONS & ADJUSTMENTS TO ENSURE THAT SYSTEMS ARE COMPLETELY INSTALLED & OPERATING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & CONTRACT DOCUMENTS.

D. CHECKS SHALL BE PERFORMED ON EACH SYSTEM INSTALLED UNDER THIS CONTRACT. REPORT SHEET SHALL BE PREPARED FOR EACH SYSTEM INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) TO A/E. TAB CONTRACTOR WILL NOT BEGIN UNTIL CHECKLIST HAS BEEN RECEIVED & REVIEWED.

E. TAB CONTRACTOR SHALL AT MINIMUM: VERIFY & INSPECT THAT SYSTEMS ARE CLEAN, FAN ROTATION, BEARINGS, CLEARANCES, ALIGNMENT, VIBRATION ISOLATORS, FILTERS, DAMPER OPERATION & POSITION, EQUIPMENT IS INSTALLED, TRANSFER OPENINGS IN WALLS, AIR LEAKS, COIL FINS/DAMAGE.

F. BALANCING CONTRACTOR SHALL PREPARE CERTIFIED REPORT OF ALL TESTS PERFORMED. REPORT SHALL BE WRITTEN ON STANDARD FORMS PREPARED BY NEBB OR AABC OR FACSIMILES THEREOF. BALANCING CONTRACTOR SHALL SUBMIT 3 COPIES OF THIS REPORT TO M/C WHO SHALL SUBMIT THEM TO A/E FOR REVIEW & DISTRIBUTION.

G. AIR HANDLING UNIT AS INSTALLED SHOWING OUTDOOR, RETURN & SUPPLY AIR CONNECTIONS, COIL & DAMPERS ARRANGEMENTS, PSYCHOMETRIC CHART ON EACH AHU, W/ COOLING COIL, SHOWING OUTDOOR RETURN, MIXED AIR TEMPS AT MINIMUM OUTDOOR AIR CONDITION, COIL LEAVING AIR CONDITION AT FULL COOLING COIL FLOW. TAB REPORT SHALL INCLUDE ALL NEBB OR AABC FORMS COMPLETED AS REQUIRED BY CERTIFICATION.

H. TAB CONTRACTOR SHALL CYCLE EACH AHU THROUGH CONTROL SEQUENCE OF OPERATION TO VERIFY PROPER OPERATION. ANY INCONSISTENCY W/ CONTRACT DOCUMENTS SHALL BE REPORTED TO A/E & TEMP CONTROL CONTRACTOR. TEMP CONTROL CONTRACTOR SHALL TAKE ACTION TO CORRECT ANY CONTROL INCONSISTENCY AS REPORTED BY TAB CONTRACTOR.

I. DURING INSTALLATION OF HVAC SYSTEMS TAB CONTRACTOR SHALL PERIODIC INSPECTION VISITS TO PROJECT SITE. PROPER PLACEMENT & INSTALLATION OF CONTROL & BALANCING DEVICES SHALL BE VERIFIED BY THESE INSPECTIONS. M/C SHALL MAKE ALL CORRECTIONS IN CONTROL & BALANCING DEVICE LOCATIONS AS REQUESTED BY TAB CONTRACTOR. FOLLOWING EACH VISIT TAB CONTRACTOR SHALL REPORT TO A/E ALL ITEMS NOTED, ACTION TAKEN & PROGRESS OF INSTALLATION.

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 – ELECTRICAL REQUIREMENTS

GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.

C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.

D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.

E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.

F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.

G. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.

H. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.

I. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 – CONDUIT & CONDUCTORS

A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.

B. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A, LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.

C. MC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS. DO NOT DAISY CHAIN LIGHT FIXTURES. PROVIDE MC LUMINARY CABLE WITH BUILT-IN TWISTED JACKETED PAIR FOR LIGHTING CIRCUITS FOR LIGHTING CONTROLS. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.

D. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.

E. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN THE MANUFACTURER'S RECOMMENDED INDIVIDUAL FIXTURE RATING.

F. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C.

G. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16300 – ELECTRICAL EQUIPMENT

A. JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEET IN EITHER DIRECTION IF SO DIRECTED, WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPBOARD SURFACES.

SECTION 16350 – ELECTRICAL IDENTIFICATION

A. MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER. TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS

B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.

C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.

D. BRANCH CIRCUITS – IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED W/ INDELIBLE MARKER.

SECTION 16400 – WIRING DEVICES

A. CONVENIENCE OUTLETS – SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFIC RATED DEVICES WHERE INDICATED AND AS REQ'D PER CODE.

B. PROVIDE GFCI RATED DEVICES WHERE INDICATED AND ANYWHERE REQUIRED PER THE NEC.

C. PROVIDE AFCI PROTECTION ON ALL CIRCUITS REQUIRED PER THE NEC.

D. PROVIDE TAMPER RESISTANT RECEPTACLES ON ALL RECEPTACLES IN PUBLIC AREAS, AREAS ACCESSIBLE TO CHILDREN, AND WHERE OTHERWISE REQUIRED TO BE TAMPER RESISTANT PER THE NEC.

E. LIGHT SWITCHES – SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.

F. WALL MOTION SWITCHES – SPEC GRADE, PIR, OVERRIDE.

G. CEILING MOTION SWITCHES – SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS AND RELAYS.

H. WALL MOTION SWITCHES (BATHROOM) – DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.

I. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.

J. EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSTOPPER, LITHONIA, SENSOR SWITCH.

EXECUTION

A. ALL OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION.

SECTION 16500 – LED LUMINAIRES

LUMINAIRES

A. PROVIDE LIGHTING FIXTURES W/ ALL ACCESSORIES REQ'D FOR HANGING. COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & G/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.

B. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.

C. EQUIVALENT LUMINAIRES BY CREE, COOPER, HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXITRONICS, LITEALARM, EXIDE, MULE, DUALLITE

GEN. RENOVATION NOTES

1. DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.
2. EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
3. SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID CUTTING EXISTING CONDUITS BY NOT OVERCUTTING SLAB DEPTH.
4. SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. XRAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
5. HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.
6. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
7. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALLED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.

GENERAL NOTES

1. SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO INSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO INSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACOTRS TO COORDINATE THE WORK BETWEEN TRADES . DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	NFA	NET FREE AREA
AFG	ABOVE FINISHED GRADE	EWT	ENTERING WATER TEMPERATURE	NL	NIGHT LIGHT
AG	ABOVE GRADE	EX	EXISTING ITEM	OA	OUTSIDE AIR
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	P/C	PLUMBING CONTRACTOR
ARCH	ARCHITECT	FFCO	FINISHED FLOOR CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FGCO	FLUSH GRADE CLEAN OUT	PVC	POLYVINYLCHLORIDE
BG	BELOW GRADE	FL	FLOW LINE	RA	RETURN AIR
BLDG	BUILDING	FLR	FLOOR	RE/REF	REFER / REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RF	RELIEF FAN
C	CONDUIT	FPM	FEET PER MINUTE	RL	RELOCATED ITEM
CD	CANDELA	FWCO	FLUSH WALL CLEAN OUT	RPZ	REDUCED PRESSURE ZONE
CD	COLD DECK	G	GROUND / GANG	RR	RESTROOM
CLG	COOLING	G/C	GENERAL CONTRACTOR	SA	SUPPLY AIR
CM	COORDINATE MOUNTING HEIGHT	GFCI	GROUND FAULT CIRCUIT INTERUPTER	SPD	SURGE PROTECTIVE DEVICE
CO	CLEAN OUT	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
CTE	CONNECT TO EXISTING	HD	HOT DECK	TA	TRANSFER AIR
DCVA	DOUBLE CHECK VALVE ASSEMBLY	HTG	HEATING	TFA	TO FLOOR ABOVE
DCW	DOMESTIC COLD WATER	IG	ISOLATED GROUND	TFB	TO FLOOR BELOW
DDC	DIRECT DIGITAL CONTROLS	JB	JUNCTION BOX	TP	TAMPERPROOF
DF	DRINKING FOUNTAIN	LED	LIGHT EMITTING DIODE	TYP	TYPICAL
DHW	DOMESTIC HOT WATER	LWT	LEAVING WATER TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
DHWR	DOMESTIC HOT WATER RETURN	M/C	MECHANICAL CONTRACTOR	VRF	VARIABLE REFRIGERANT FLOW
DIA	DIAMETER	MA	MIXED AIR	VTR	VENT THROUGH ROOF
DN	DOWN	MAU	MAKE UP AIR UNIT	WCO	WALL CLEANOUT
E/C	ELECTRICAL CONTRACTOR	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
EA	EXHAUST AIR	MECH	MECHANICAL	WP	WEATHERPROOF
EDF	ELECTRIC DRINKING FOUNTAIN	MH	MANHOLE		

FIRE SEALING NOTES

1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
2. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY NSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
6. PROVIDE SLEEVES THROUGH ALL FIRE_RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

SHEET INDEX

ME100	MEP Symbols and Specifications
ME101	Overall Hanger Floor Plan
M101	Classroom Mechanical Plan
M102	Classroom Mechanical Schedules
E101	Classroom Power Plan
E201	Classroom Lighting Plan
E201	Classroom Lighting Elevations

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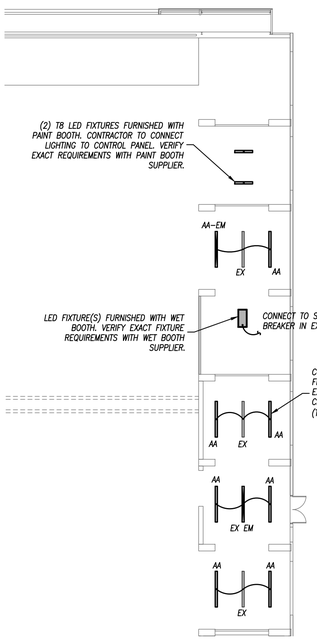
SHEET TITLE

MEP SYMBOLS AND SPECIFICATION

HANGER 626

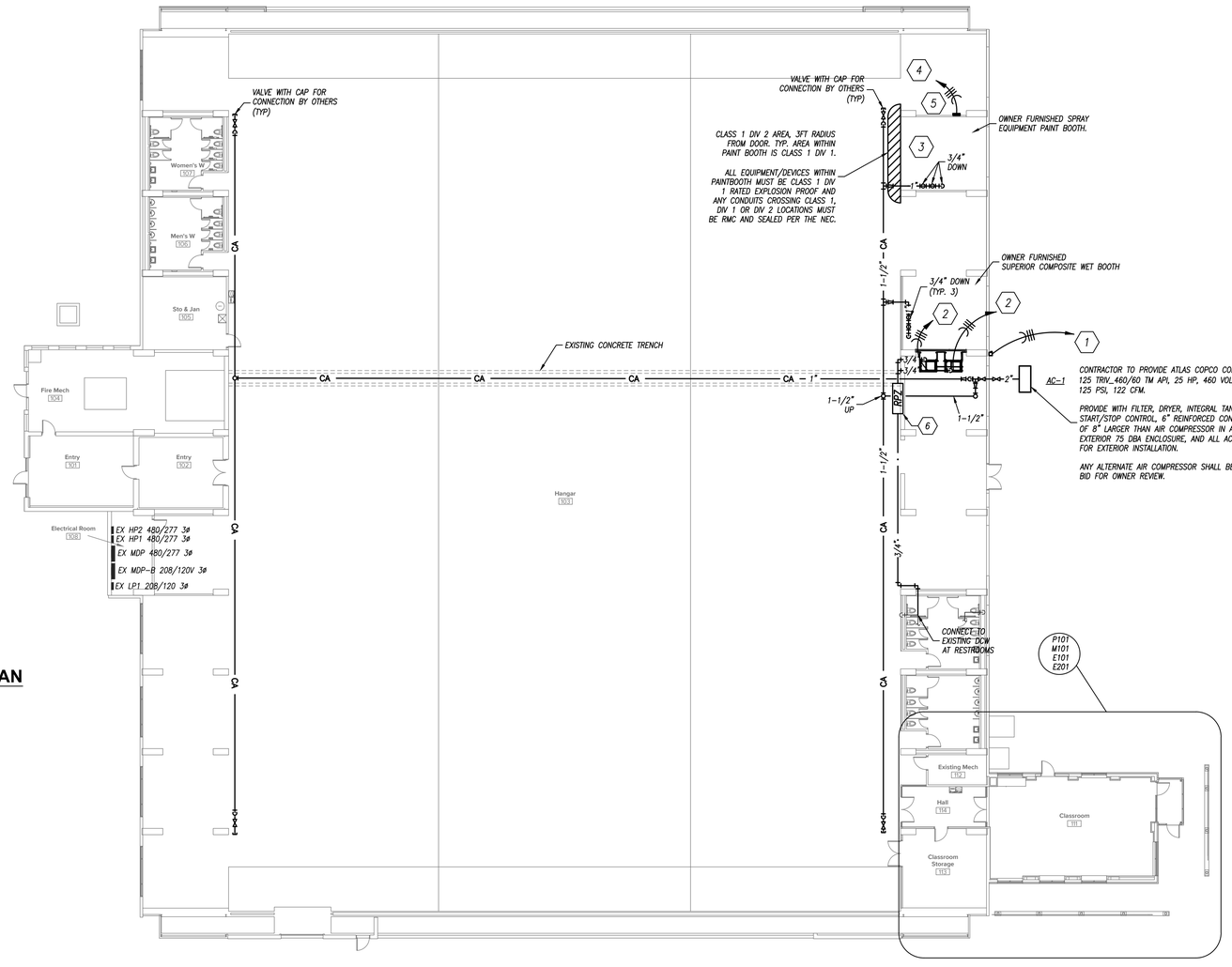
SHEET NUMBER

ME100



OVERALL HANGER LIGHTING PLAN

1/16" = 1'-0"



OVERALL HANGER FLOOR PLAN

1/16" = 1'-0"

GEN. MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

PLAN KEYED NOTES

1. PROVIDE 100/3P NEMA 3R DISCONNECT SWITCH. CONNECT TO NEW 3P, 70A BREAKER IN EXISTING PANEL "MDP" (3) #4, #8G, 1-1/4"C. VERIFY EXACT REQUIREMENTS WITH AIR COMPRESSOR SUPPLIER.
2. CONNECT WET BOOTH MODULE TO NEW 3P, 30A 480V BREAKER IN EXISTING PANEL "HP2". VERIFY EXACT REQUIREMENTS WITH WET BOOTH SUPPLIER. (3) #10, #10G, 1/2"C
3. OWNER FURNISHED PAINT BOOTH. EXHAUST DUCTWORK FURNISHED WITH PAINT BOOTH AND INSTALLED BY CONTRACTOR. VERIFY EXACT REQUIREMENTS WITH PAINT BOOTH SUPPLIER.
4. PROVIDE CONNECTION TO PAINT BOOTH CONTROL PANEL AND CONNECT TO NEW 3P, 20A BREAKER IN EXISTING PANEL "HP1". (3) #12, #12G, 1/2". VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER.
5. PAINT BOOTH CONTROL PANEL INCLUDES MOTOR STARTERS AND EQUIPMENT OVERCURRENT PROTECTION (BY OTHERS). COORDINATE EXACT LOCATION OF CONTROL PANEL WITH PAINT BOOTH SUPPLIER.
6. PROVIDE 3/4" CONNECTIONS AND BACKFLOW PREVENTER. COORDINATE WITH EQUIPMENT PROVIDER

LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SIZE	MOUNTING	FINISH	MIN LUMEN/MAX WATTS	CRI/CCT	NOTES
AA	WILLIAMS	75S-8-L100/835-EM/10WRM-VBY-DRV-UNV	8'	SUSPENDED	WHITE	10,078 LUMENS/65.9 WATTS	80/3500K	1

NOTES LEGEND

1. WHERE FIXTURE IS DESIGNATED "EM", PROVIDE EMERGENCY BATTERY MINIMUM OF 1000 LUMENS FOR 90 MINUTES

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SHEET TITLE

OVERALL HANGER MEP PLAN

HANGER 626

SHEET NUMBER

ME101

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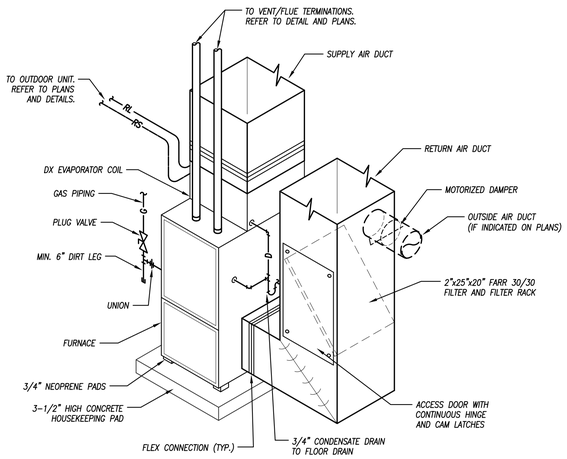
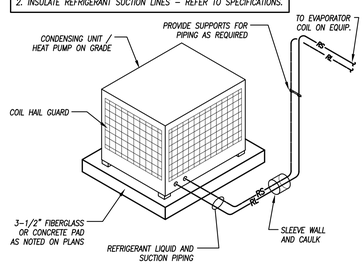


HIGH-EFFICIENCY FURNACE DETAIL

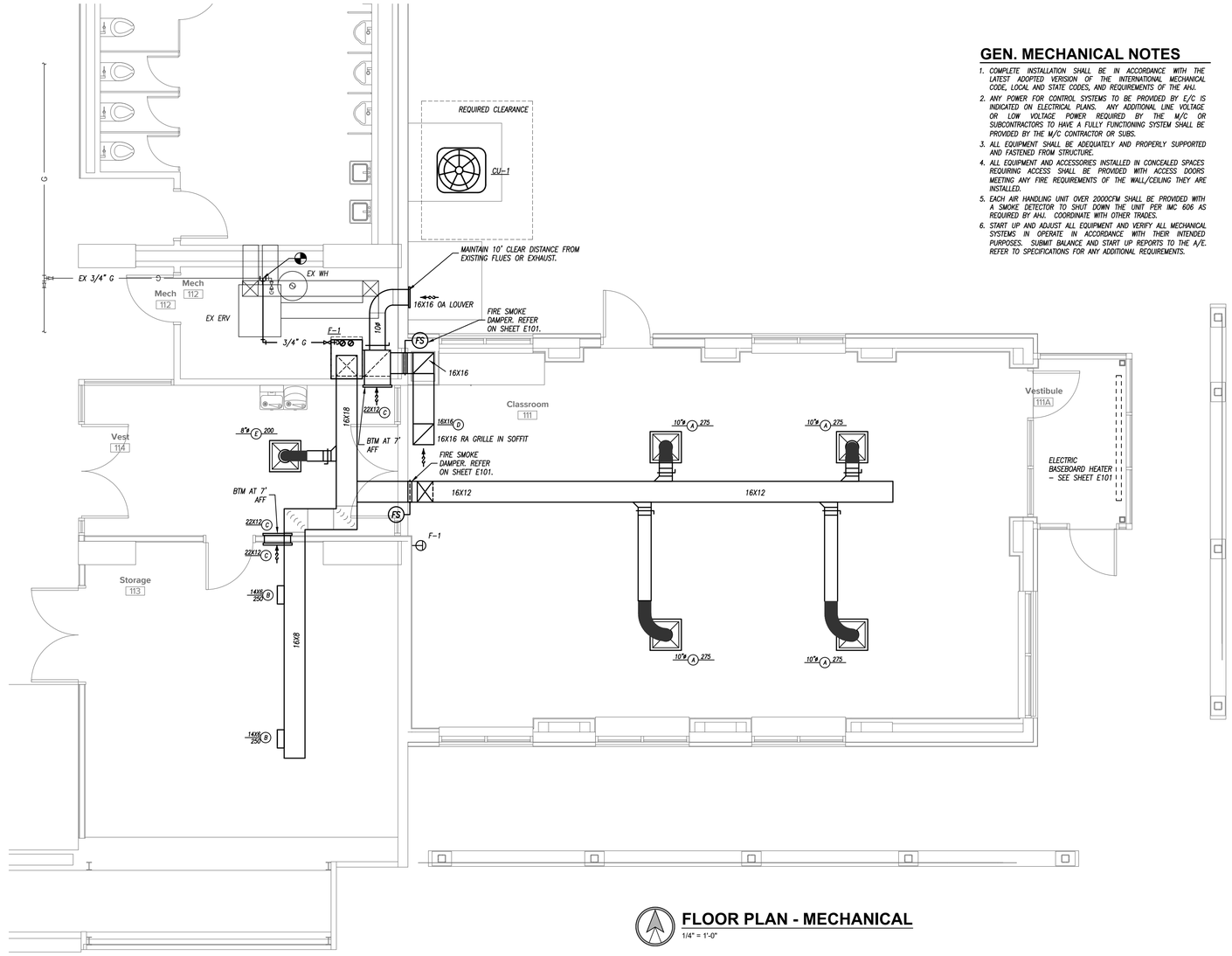
NOT TO SCALE 571-01

NOTES:
1. CONDENSING UNIT MANUFACTURER TO SIZE ALL REFRIGERANT LINES AND PROVIDE ALL ACCESSORIES FOR VERTICAL RUNS AS REQUIRED.
2. INSULATE REFRIGERANT SUCTION LINES – REFER TO SPECIFICATIONS.



CONDENSING UNIT / HEAT PUMP DETAIL

NOT TO SCALE 573-01



FLOOR PLAN - MECHANICAL

1/4" = 1'-0"

GEN. MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

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CLASSROOM MECHANICAL PLAN

HANGER 626

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DUCTWORK INSULATION SCHEDULE

DUCT				INSULATION			
PURPOSE	DUTY	LOCATION	STYLE	MATERIAL	APPLICATION	THICKNESS	NOTES
SUPPLY	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		EXPOSED	ROUND	FIBERGLASS	LINED	1/2"	---
RETURN	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		EXPOSED	ROUND	FIBERGLASS	LINED	1/2"	---
		RETURN/TRANSFER BOOTS	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
OUTSIDE AIR	ALL	CONCEALED OR MECH. SPACE	RECTANGULAR	MINERAL FIBER	WRAPPED	1-1/2"	---
		CONCEALED OR MECH. SPACE	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---

NOTES:
1. IN ADDITION TO OTHER SCHEDULED INSULATION.
2. PROVIDE LINER ONLY WITHIN 10' OF FAN FOR ACCOUSTICS.
3. THICKNESS SHALL ENCAPSULATE DUCT CONSTRUCTION.
4. INSTALL FROM UNIT DISCHARGE TO FIRST DUCT ELBOW, THEN 10' FURTHER. NOT REQUIRED INSIDE CHASES OR MECHANICAL ROOMS, BUT SHALL BE INSTALLED ON REMAINING DUCTWORK WHEN 10' DIMENSION FALLS OUTSIDE ROOM.

GENERAL REMARKS (APPLICABLE TO ALL TYPES):
1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 – 2010 REQUIREMENTS AT A MINIMUM.
3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.

PIPING MATERIAL & INSULATION SCHEDULE

PIPING							INSULATION	
SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	TYPE	THICKNESS
NATURAL GAS – ABOVE GRADE	1/2"-2"	SCH. 40	STEEL- SEEMLESS	THREADED IRON	75 PSI – 1HR	YES	----	----

NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 – 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	MATERIAL COLOR	NOTES
A	PRICE	SPD	SUPPLY	GRID	NO	STEEL	WHITE	–
B	PRICE	520-D	SUPPLY	FLANGE	YES	STEEL	WHITE	–
C	PRICE	535	RETURN	WALL	NO	STEEL	WHITE	–
D	PRICE	535-0	RETURN	FLANGE	NO	STEEL	WHITE	–
E	PRICE	SPD	SUPPLY	GRID	NO	STEEL	BLACK	–

FURNACE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	O.A. CFM	FAN DATA		COOLING		HEATING			ELECTRICAL	REMARKS
					E.S.P.	HP	COIL MODEL	CAPACITY (MBH)	INPUT (MBH)	OUTPUT (MBH)	EFF.		
F-1	YORK	TM9E120	1,800	250	0.5"	1	CM60	60.0	120.0	114.6	95.5%	120V / 1PH	1,2,3

REMARKS:
1. HIGH EFFICIENCY FURNACE.
2. ENERGY-STAR COMPLIANT.
3. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT

CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (MBH)	MINIMUM SEER	AMBIENT TEMP. (°F)	ELECTRICAL			REMARKS
						VOLTS / PH	M.C.A.	M.O.C.P.	
CU-1	YORK	YC2E60	60.0	14.5	105°	208V / 1PH	35.9	60	1,2,3,4,5,6

REMARKS:
1. COOLING CAPACITY BASED ON A SUCTION TEMPERATURE OF 49°F.
2. ENERGY-STAR COMPLIANT.
3. PROVIDE WITH 3-1/2" CONCRETE PAD.
4. PROVIDE SERVICE VALVES AND REFRIGERANT ACCUMULATOR AT SUCTION LINE.
5. PROVIDE COIL HAIL GUARDS.
6. VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER.

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CLASSROOM
MECHANICAL SCHEDULES

HANGER 626

SHEET NUMBER

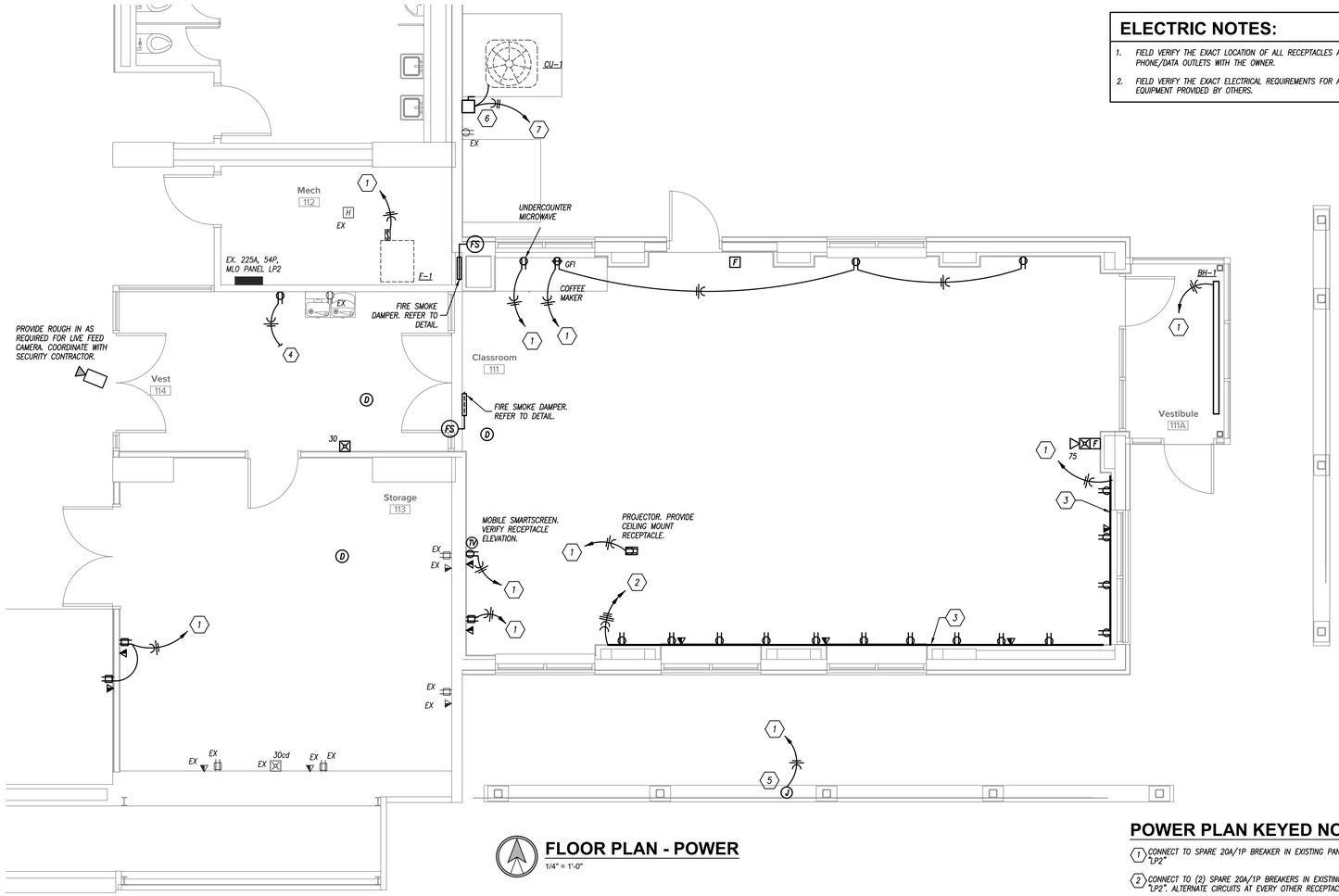
M102

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

ELECTRIC NOTES:

1. FIELD VERIFY THE EXACT LOCATION OF ALL RECEPTACLES AND PHONE/DATA OUTLETS WITH THE OWNER.
2. FIELD VERIFY THE EXACT ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT PROVIDED BY OTHERS.

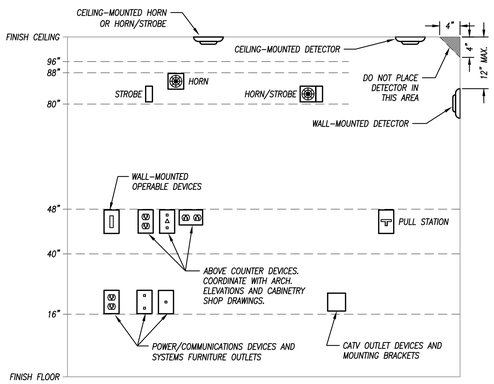


FLOOR PLAN - POWER

1/4" = 1'-0"

POWER PLAN KEYED NOTES

1. CONNECT TO SPARE 20A/1P BREAKER IN EXISTING PANEL "LP2"
2. CONNECT TO (2) SPARE 20A/1P BREAKERS IN EXISTING PANEL "LP2". ALTERNATE CIRCUITS AT EVERY OTHER RECEPTACLE.
3. PROVIDE LEGRAND SERIES 5000 LARGE CAPACITY WIREMOLD AROUND CLASSROOM. PROVIDE WITH RECEPTACLES EVERY 36" O.C. AS SHOWN. PROVIDE SEPARATE DATA AS SHOWN. MOUNT TOP AT 48" AFF.
4. CONNECT TO EXISTING CIRCUIT.
5. PROVIDE CONNECTION TO INTERNALLY ILLUMINATED EXTERIOR SIGNAGE.
6. 60 AMP, 2P, NON FUSED, NEMA 3R WP DISCONNECT WITH (2) #6, #10G, 3/4" C.
7. CONNECT TO NEW 60A/2P BREAKER IN EXISTING PANEL "LP2".



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

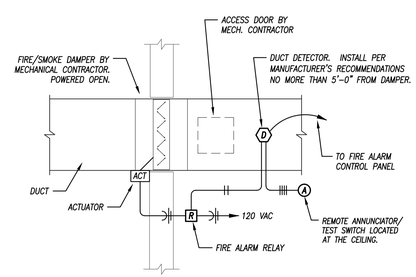
POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE



FIRE/SMOKE DAMPER WIRING DIAGRAM

NOT TO SCALE

BASEBOARD HEATERS

PLAN MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (W)	ELECTRICAL	NOTES
BH-1	BERKO	BKOC25008W	2500	120 V., 1 PH, 12 AMP	1

NOTES LEGEND

1. PROVIDE INTEGRAL DIAL STYLE THERMOSTAT AND DISCONNECT SWITCH

FIRE ALARM NOTES:

1. ADDITIONS TO THE FIRE ALARM SYSTEM MUST BE INSTALLED AND COMPLY WITH NFPA 72, LATEST EDITION, THE LIFE SAFETY CODE, AND THE INTERNATIONAL FIRE CODE.
2. SUBMIT PLANS, SUBMITTALS, AND BATTERY CALCULATIONS TO THE FIRE MARSHALL.
3. WIRING OF THE SYSTEM IS TO BE INSPECTED FOR COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (NEC) BY THE CITY ELECTRICAL INSPECTOR DURING INSTALLATION.
4. FIRE PROTECTION SYSTEMS SHALL ADHERE TO THE ENGINEERED DRAWINGS, MANUFACTURER'S REQUIREMENTS/LISTINGS, AND THE APPROPRIATE CODES AND STANDARDS.
5. THE COMPLETED SYSTEM SHALL BE PRE-TESTED BY THE RESPONSIBLE CONTRACTOR AND IN PROPER AND COMPLIANT WORKING CONDITION BEFORE A TEST IS WITNESSED BY THE FIRE INSPECTOR.

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CLASSROOM POWER PLAN

HANGER 626

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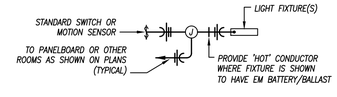
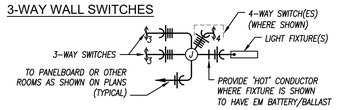
TYPICAL WIRING OF CONTROLS AND LIGHT FIXTURES

THE WIRING AND/OR TIC MARKS SHOWN BELOW ARE NOT SHOWN ON PLANS FOR CLARITY. PROVIDE WIRING FROM JUNCTION BOX(ES) TO SWITCHES/CONTROLLERS AND LIGHTS AS SHOWN BELOW FOR EACH ROOM/AREA.

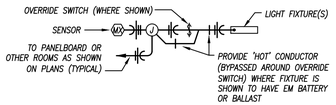
LINE VOLTAGE STANDARD WALL SWITCHES



3-WAY WALL SWITCHES

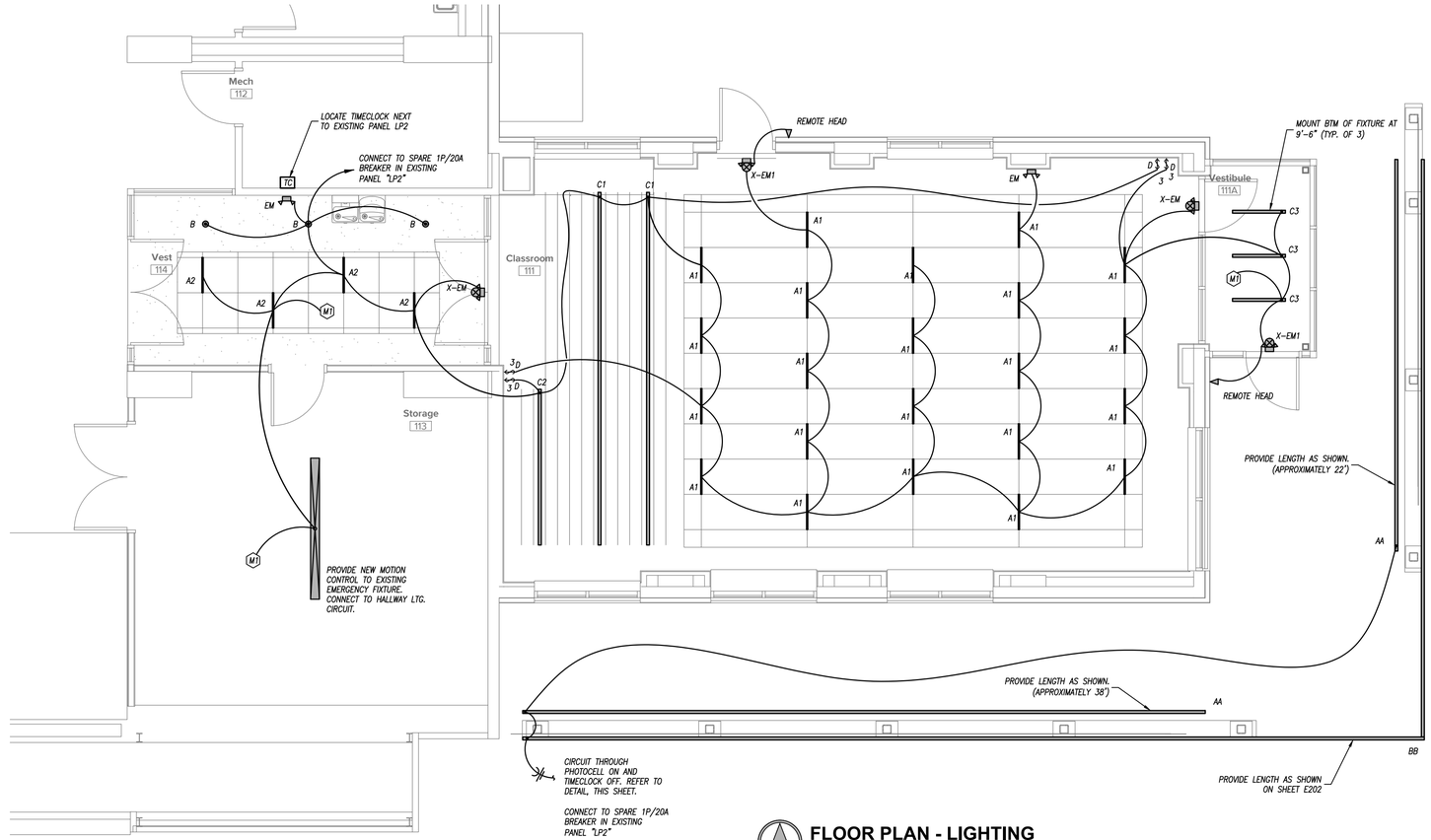


LINE VOLTAGE CEILING SENSORS



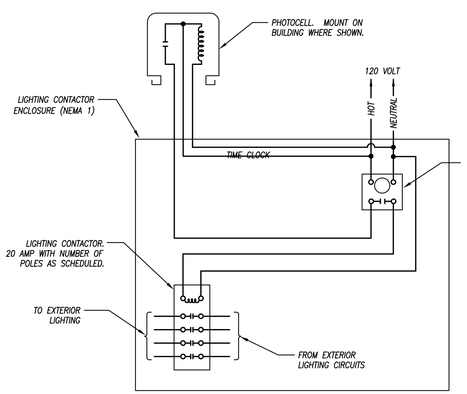
LIGHTING CONTROL DEVICE SCHEDULE

MARK	MANUFAC.	MODEL	DESCRIPTION	VOLTAGE
CEILING SENSORS				
M1	WATTSTOPPER	DT-355	DUAL-TECHNOLOGY CEILING SENSOR. LINE VOLTAGE.	120 V
WALL SENSORS				
M	WATTSTOPPER	DSW-100	DUAL-TECHNOLOGY WALL SENSOR. LINE VOLTAGE.	120 V



FLOOR PLAN - LIGHTING

1/4" = 1'-0"



EXTERIOR LIGHTING CONTROL

NOT TO SCALE

LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SIZE	MOUNTING	FINISH	MIN LUMEN/MAX WATTS	CRI/CCT	NOTES
A1	JLC-TECH	TBFL-MW-HO-22-15-DW-A-W-UNV	24"	RECESSED	WHITE	1804 LUMENS/21.2 WATTS	80/3500K	1
A2	JLC-TECH	TBFL-MW-HO-22-15-DW-A-B-UNV	24"	RECESSED	BLACK	1804 LUMENS/21.2 WATTS	80/3500K	1
B	WILLIAMS	4DR-TL-L15/835-DIM-UNV-LW-OF-CS	4"	RECESSED	WHITE	1466 LUMENS/13.9 WATTS	80/3500K	1
C1	WILLIAMS	MX2D-20'-0"-L4/835-F-AC-DIM-UNV	20'	SUSPENDED/CABLE	WHITE	7516 LUMENS/68 WATTS	80/3500K	1
C2	WILLIAMS	MX2D-8'-10"-L4/835-F-AC-DIM-UNV	8'-10"	SUSPENDED/CABLE	WHITE	3320 LUMENS/30 WATTS	80/3500K	1
C3	WILLIAMS	MX2D-3'-L4/835-F-MSF-DIM-UNV	3'	SUSPENDED/STEM	WHITE	1127 LUMENS/10.2 WATTS	80/3500K	1
AA	LUMEN PULSE	LOG-RO-120-WWLF-WAM6-BK-DIM-ETE	SEE PLAN	SURFACE	BLACK	8.5 W/FT	80/3500K	4,5,6
BB	QTL	KURV-BK-SC-PPS-IP67-B-5.0-S1-BW-BW-N/A-BK-O	SEE E202	SURFACE	BLACK	5 W/FT	STATIC BLUE	4,5
EM	MULE	MRDR-6-12-W-PLED		SURFACE	WHITE	5W LED LAMPS	–	2
X-EM	MULE LTG	ALURWW		SURFACE WALL/CEILING	WHITE	LED/LED		2
X-EM1	MULE LTG	ALURWW-REM/MAKO3		SURFACE WALL/CEILING	WHITE	LED/LED		2,3

NOTES LEGEND

1. *PROVIDE DIMMABLE LED DRIVER UNIVERSAL VOLTAGE*
2. *PROVIDE EMERGENCY BATTERY MINIMUM OF 1000 LUMENS FOR 90 MINUTES*
3. *PROVIDE WITH OUTDOOR REMOTE LIGHTING HEAD MODEL (MAKO3 OR #PGR-#). STANDARD COLOR SELECTED BY ARCHITECT.*
4. *PROVIDE WET LOCATION RATED FIXTURE*
5. *PROVIDE ALL CONNECTORS, MOUNTING CLIPS/CHANNEL, AND ALL OTHER ACCESSORIES FOR CONTINUOUS FIXTURE.*
6. *PROVIDE 6" ADJUSTABLE EXTENDED ARM MOUNTING.*

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CLASSROOM LIGHTING PLAN

HANGER 626

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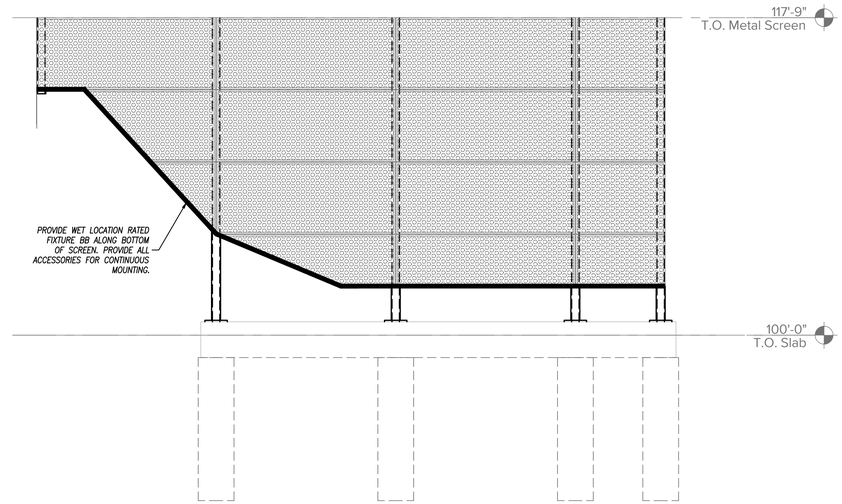
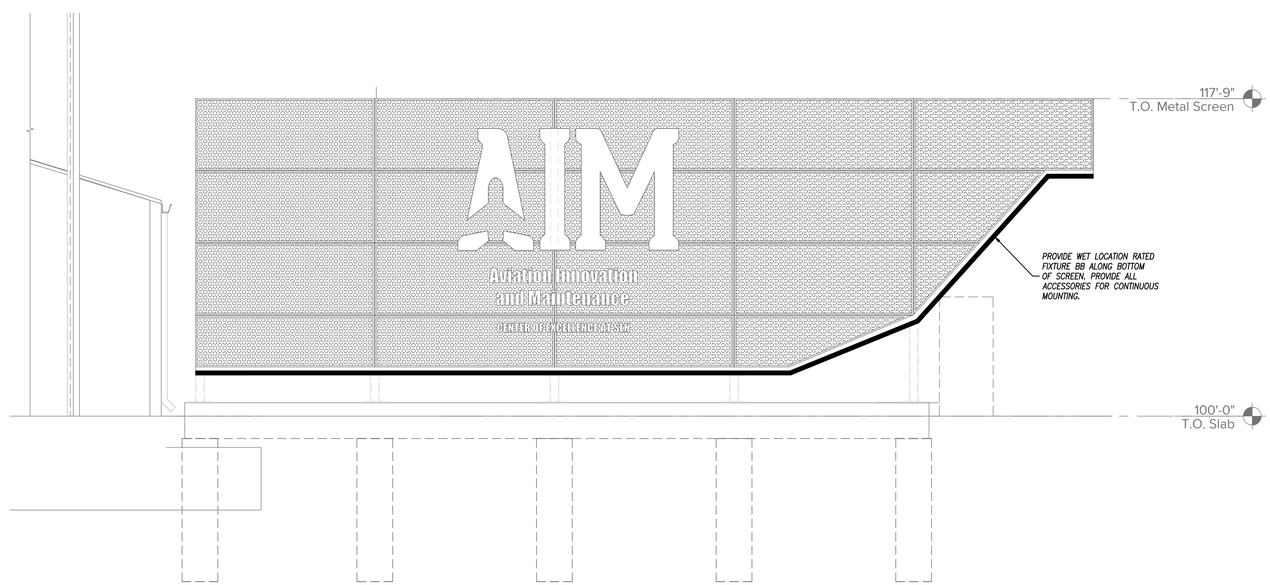


EAST EXTERIOR ELEVATION
1/4" = 1'-0"



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

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