FOR PERMIT AND CONSTRUCTION
OF
CASPER COLLEGE LOCKER ROOMS
1944 LISCO DR, CASPER, WY 82601

FOR
Casper College Board of Trustees

2026-02-13

PROJECT DIRECTORY

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MOA ARCHITECTURE

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TERMS AND ABBREVIATIONS

A	
AAH(#)	ADD ALTERNATE #(#)
ACI	AMERICAN CONCRETE INSTITUTE
ACR	ACRYLIC
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADD or ADDENDUM
ADJ	ADJACENT, ADJUSTABLE or ADJOINING
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AFS	ACCESS FLOOR SYSTEM
AGC	ASSOCIATED GENERAL CONTRACTORS
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE of ARCHITECTS
AISC	AMERICAN INSTITUTE of STEEL CONSTRUCTION
AL	ALIGN
ALT	ALTERNATE
ALUM	ALUMINUM
ANN	ANNUNCIATOR
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACOUSTICAL PANEL
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE(LY)
APT	APARTMENT
ARCH	ARCHITECT or ARCHITECTURAL
ASCE	AMERICAN SOCIETY of CIVIL ENGINEERS
ASHRAE	AMERICAN SOCIETY of HEATING, REFRIGERATION and AIR CONDITIONING ENGINEERS
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
ASID	AMERICAN SOCIETY of INTERIOR DESIGNERS
ASME	AMERICAN SOCIETY of MECHANICAL ENGINEERS
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS
ATM	AUTOMATIC TELLER MACHINE
ATTN	ATTENTION
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO / VISUAL
AWI	ARCHITECTURAL WOODWORKING INSTITUTE
AWPA	AMERICAN WOOD PRESERVERS ASSOCATION
B	
BD	BOARD
BIA	BRICK INSTITUTE of AMERICA
BITUM	BITUMINOUS
BKT	BRACKET
BLDG	BUILDING
BLKG	BLOCKING
BLVD	BOULEVARD
BO	BOTTOM OF
BOD	BASIS OF DESIGN
BPG	BACK PAINTED GLASS
BR	BEDROOM
BSMT	BASEMENT
BUR	BUILT-UP ROOFING
C	
C	CHANNEL
CA	ARCHITECTURAL CONCRETE
CAB	CABINET
CATV	COMMUNITY ANTENNA (cable) TELEVISION
CB	CORNER BEAD
CBB	CEMENTITIOUS BACKER BOARD
CC	CONCRETE COUNTERTOP
CCD	CONTRACT CHANGE DIRECTIVE
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTER-CLOCKWISE
CD	CONSTRUCTION DOCUMENTS or CONTRACT DOCUMENTS
CEM	CEMENT or CEMENTITIOUS
CER	CERAMIC
CERT	CERTIFY or CERTIFICATE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CIP	CAST-IN-PLACE (CONCRETE)
CJ	CONTROL JOINT - CONCRETE (CMU)
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTERTOP
CO	CLEANOUT
COAX	COAXIAL CABLE
COB	CHANGE ORDER BULLETIN
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONST	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPPS	CONCRETE PEDESTAL PAVER SYSTEM
CPT	CARPET
CR	CARD READER
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CS	STRUCTURAL CONCRETE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CSK	COUNTERSINK or COUNTERSUNK
CSMT	CASEMENT
CSS	CLINICAL SERVICE SINK
CSWK	CASEWORK
CT	COUNT
CTR	CENTER
CTRL	CONTROL
CU	CUBIC
CW	CLOCKWISE
D	
D	DEPTH
dB	DECIBEL
DBL	DOUBLE
DEG	DEGREE(S)
DEMO	DEMOLISH or DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DH	DOUBLE-HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFERENCE
DIM	DIMENSION or DIMENSIONAL
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVIDE or DIVISION
DN	DOWN
DOC	DOCUMENT
DPS	DOOR POSITION SWITCH
DR	DRIVE
DS	DOWNSPOUT
DT	DRAIN TILE
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	
(E)	EXISTING
E	EAST
EA	EACH
EC	EPOXY COUNTERTOP
ED	EDUCATION(AL)
EF	EXHAUST FAN or EPOXY FLOORING
EIFS	EXTERIOR INSULATION and FINISHING SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EO	EDGE OF
EOS	EDGE OF SLAB
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPDM	ETHYLENE PROPYLENE DIENE MONOMER (roofing)
EPF	EPOXY FLOORING
EPS	EXPANDED POLYSTYRENE (insulation board)
EQ	EQUAL
EQUIP	EQUIPMENT
ERC	EPOXY RESIN COUNTERTOP
ESMT	EASEMENT
ETC	ET CETERA (and so forth)
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPAND, EXPANDED or EXPANSION
EXPS	EXPOSED STRUCTURE
EXT	EXTERIOR
F	
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAF	FLUID APPLIED FLOORING
FAR	FLOOR AREA RATIO
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FURNITURE, FIXTURES AND EQUIPMENT
FFL	FINISHED FLOOR LINE
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FL	FLOOR LINE
FLR	FLOOR
FO	FACE OF
FOF	FACE OF FINISH
FOS	FACE OF STUD
FR	FIRE RATING, FIRE RESISTIVE, FIRE RESISTANT or FRAME
FRP	FIBERGLASS-REINFORCED PANEL
FRT	FIRE RETARDENT TREATED
FS	FLOOR SINK
FT	FEET or FOOT
FURR	FURRING
G	
GA	GAUGE or GYPSUM ASSOCIATION
GALV	GLAVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GCMU	GLAZED CONCRETE MASONRY UNIT(S)
GL	GLASS or GLAZING
GLU-LAM	GLUED-LAMINATED WOOD
GMP	GUARANTEED MAXIMUM PRICE
GYM	GYMNASIUM
GYP	GYPSUM
H	
HB	HOSE BIBB
HC	HANDICAP
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION(S)
HT	HEIGHT
HVAC	HEATING, VENTILATION and AIR CONDITIONING
HW	HOT WATER
I	
IBC	INTERNATIONAL BUILDING CODE
ID	IDENTIFICATION
IGU	INSULATING GLASS UNIT
IN	INCH
INFO	INFORMATION
INSUL	INSULATED or INSULATION
INT	INTERIOR
INV	INVERT
J	
JAN	JANITOR
JT	JOINT
K	
KD	KNOCKED DOWN
KITCH	KITCHEN
KPL	KICK PLATE
L	
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
LF	LINEAR FEET / LINOLEUM FLOORING
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIB	LIBRARY
LT	LIGHT
LVT	LUXURY VINYL TILE
M	
M	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCM	METAL COMPOSITE MATERIAL PANEL
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL and PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	METAL PANEL
MTD	MOUNTED
MTL	METAL
N	
N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NLB	NON-LOAD BEARING
NO	NUMBER
NOM	NOMINAL
NR	NON-RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
O2	OXYGEN
OC	ON-CENTER
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION
OXM	OXIDIZED METAL
P	
PA	PUBLIC ADDRESS
PC	POLISHED CONCRETE
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PF	PREFINISHED
PL	PLATE or PROPERTY LINE or PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PR	PAIR or PROPOSAL REQUEST
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT(ED)
PV	PHOTOVOLTAIC
PVT	PAVER TILE
PWR	POWER
Q	
QA	QUALITY ASSURANCE
QTY	QUANTITY
R	
R	RADIUS
RB	RESILIENT or RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN or ROAD
RE	REFER TO or REFERENCE
REBAR	STEEL REINFORCING BARS
REF	REFRIGERATOR or REFRIGERATED
REINF	REINFORCED
REQD	REQUIRED
REV	REVISE, REVISED or REVISION
RF	RUBBER FLOORING
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RS	RESILIENT SHEET
RSF	RESILIENT SPORTS FLOORING
RST	RESILIENT STAIR
RTU	ROOFTOP UNIT
S	
S	SOUTH
SAN	SANITARY
SC	SEALED CONCRETE
SCF	STATIC CONTROL FLOORING
SCHED	SCHEDULE
SDT	STATIC DISSIPATIVE TILE
SF	SQUARE FOOT (FEET) or SPORTS FLOORING
SIM	SIMILAR
SMACNA	SHEET METAL and AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	SOLID SURFACING
SSB	STAINLESS STEEL BASE
SST	STAINLESS STEEL
ST	STONE (REAL / ENGINEERED)
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURE or STRUCTURAL
SYS	SYSTEM
T	
T	TILE
T&G	TONGUE AND GROOVE
TB	TILE BASE
TEL	TELEPHONE
TEMP	TEMPORARY
TF	TILE FLOOR
THK	THICKNESS
TO	TOP OF
TOW	TOP OF WALL
TP	TOILET PARTITION
TS	TACK SURFACE
TV	TELEVISION
TW	TILE WALL
TYP	TYPICAL
U	
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UOS	UNLESS OTHERWISE SPECIFIED
UPH	UPHOLSTERY
UTIL	UTILITY
V	
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FLOORING
VIF	VERIFY IN FIELD
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
W	
W	WEST or WIDE FLANGE or WIDTH
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WALL COVERING
WD	WOOD
WDW	WINDOW
WOC	WALK-OFF CARPET TILE
WOM	WALK-OFF MAT
WP	WALL PROTECTION
WSCT	WAINSCOT
WSF	WOOD SPORTS FLOORING
WT	WEIGHT or WINDOW TREATMENT
WV	WOOD VENEER
X	
X	EXTRUDED POLYSTYRENE

SHEET INDEX

REFERENCE SYMBOLS

BUILDING SECTION: Section Number / Sheet Number

PARTIAL SECTION: Section Number / Sheet Number

DETAIL INDICATOR: Section Number / Sheet Number

SECTION DETAIL: Section Number / Sheet Number

ELEVATION INDICATOR: Multiple View / Elevation Numbers / Sheet Number; Exterior; Single View / Sheet Number / Elevation Number; Interior

DRAWING BLOCK: 2 DRAWING BLOCK TITLE — DRAWING SCALE — CROSS REFERENCE

ELEVATION MARK: LEVEL DESCRIPTOR / ELEVATION HEIGHT

MATCHLINE: MATCHLINE / RE: ITEM NO. / SHEET NO.

NORTH INDICATOR: TRUE

DOOR OPENING: 210A

WINDOW / LOUVER TYPE: # / L#

WALL PANEL TYPE: P*

SYSTEM NOTE: F=FLOOR, P=PARTITION, W=WALL, C=CEILING, R=ROOF — #

KEYNOTE INDICATOR: #

ALIGN: AL

CENTERLINE: ℄

REVISION: #

ACCESSORY / EQUIPMENT INDICATOR: 2

MATERIAL/FINISH INDICATOR: A-#

CASEWORK TAG (AWI): W / H / D

WALL AND OPENING LEGEND

- RENOVATION - EXISTING WALL TO REMAIN
- RENOVATION - EXISTING WALL (DASHED) TO BE DEMOLISHED
- STUD WALL FRAMING
- RENOVATION - OPENING - EXISTING DOOR (DASHED) TO BE DEMOLISHED
- RENOVATION - OPENING - EXISTING DOOR TO REMAIN
- OPENING - NEW DOOR AND HARDWARE

GENERAL PROJECT NOTES

1. ABBREVIATIONS REFERENCED FROM THE CONSTRUCTION SPECIFICATIONS INSTITUTE'S UNIFORM DRAWING SYSTEM TERMS AND ABBREVIATIONS MODULE.
2. DIMENSIONS TO FACE OF OBJECTS ARE MARKED BY DIAGONAL TICK MARKS, DIMENSIONS TO GRIDS ARE MARKED BY SOLID DOTS.
3. AT ALL CORRIDORS, LOBBIES, STAIRS AND COMMONS, ALL EXPOSED PARTITION ENDS , OUTSIDE CORNERS, AND TRIMMED OPENINGS SHALL HAVE CORNER GUARDS (GYPSUM BOARD WALLS ONLY).
4. ALL CORRIDOR GYPSUM BOARD FACED WALLS SHALL BE 5/8" FIBER REINFORCED IMPACT RESISTANT GYPSUM BOARD TO 8 '- 0" AFF.
5. PROVIDE AN INTERNAL CORNER EXPANSION JOINT AT ALL LOCATIONS IN MASONRY VENEERS.
6. FEATURES THAT APPEAR TO BE CENTERED ON BUILDING COLUMNS OR OTHER STRUCTURE ARE, AND HENCE ARE NOT SPECIFICALLY DIMENSIONED ON ARCHITECTURAL PLANS.
7. FACES OF WALLS THAT APPEAR TO BE ALIGNED ARE IN FACT ALIGNED, UNO
8. IF SPECIFICATIONS AND DRAWINGS CONTRADICT THEMSELVES, ASSUME MORE EXPENSIVE SOLUTION IS REQUIRED.
9. SHEET SPECIFIC IDENTIFICATION OF ITEMS (E.G. 08 1113.01) DIRECTLY REFERENCE CORRESPONDING ARCHITECTURAL SECTIONS IN THE PROJECT MANUAL. THE DECIMAL POINT AND SUFFIX NUMBERS ARE NOT IDENTIFIED IN SPECIFICATIONS.

VICINITY MAP

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259 S. CENTER STREET, SUITE 206
CASPER, WYOMING 82601
307.268.9890
moaarch.com

CASPER COLLEGE LOCKER ROOMS
1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	KA
Checked By:	BD

Sheet Name
COVER SHEET & INDEX

CS

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DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
SECTION 00 6000
PROJECT FORMS

PART 1 GENERAL
1.01 SUMMARY
A. Procedures for use of administrative forms.
B. Administrative forms.
1.02 PROCEDURES
A. Deliver or electronically transmit completed forms to Architect at the address listed on the cover of the Project Manual.
B. Use of forms is required.
1. Use of Contractor 's alternative forms is acceptable subject to approval of Architect, and provided that content of alternative forms is substantially equivalent to forms provided by Architect.
C. Complete applicable information on form. Indicate date transmitted documentation and additional descriptive information as necessary to fully describe the request.
D. Use a single form for each separate request. Closely related items may be included in a single request only if acceptance of one item requires acceptance of all items in the request.
E. Comply with the requirements of Section 01 2500 - Substitution Procedures for requests for substitution after execution of the Contract.
1.03 ARCHITECT 'S ACTION
A. Architect will review each request, and return the form to Contractor with written response within 7 days of receipt, except when it must be held for coordination with pending submittals, and Contractor is so advised.
B. When requests are made within the time allowed for Architect's review, Architect will make reasonable effort to respond in a timely manner, but no claim for delay by Contractor will be allowed.
C. Substitution Requests: Architect 's review is for general conformance with the Contract Documents only and does not relieve Contractor from full compliance with the Contract Documents and Contractor's representations specified in 01 2500 - Substitution Procedures.
1.04 FORMS
A. Request for Information: Number consecutively; include Architect's project number; clearly specify the document reference by specification Section number, article, paragraph, Drawing number, and detail numbers as applicable. Architect will complete the lower portion of the form as the written response.
B. Substitution Request: Number consecutively; complete all required information on the form; indicate applicable cost savings and time affect, if any. Architect will complete the lower portion of the form as the written response, and will attach further written response as necessary to explain the decision, if required. Forms submitted without all required information as indicated on the form may be returned for completion before review by Architect.
C. Proposal Request: Architect may submit a Proposal Request which includes detailed description of proposed modification with supplementary or revised drawings and specifications, the projected time for executing the modification, with a stipulation of any overtime work required, and the period of time during which the requested price will be considered valid. Refer to Section 01 2000 - Price and Payment Procedures.
D. Supplemental Instructions: Architect may issue a Supplemental Instruction which includes detailed description of proposed minor modification, with supplementary or revised Drawings and Specifications.
E. Construction Change Directive: Architect may issue a Construction Change Directive, signed by Owner and Architect, instructing Contractor to proceed with a modification to the Work, for subsequent inclusion in a Change Order. Construction Change Directive will describe changes in the Work, and will designate method of determining any change in Contract Sum or Contract Time.
F. Forms will be provided by Architect upon request.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

DIVISION 01 - GENERAL REQUIREMENTS
SECTION 01 1000
SUMMARY

PART 1 GENERAL
1.01 PROJECT
A. Project Name: 24108.00 Casper College Locker Rooms
B. Owner's Name: Casper College
C. Architect's Name: MOA Architecture
D. 2,800 SQ. FT INTERIOR RENOVATION PROJECT. THERE IS NO PROPOSED CHANGE-OF-USE. WORK TO INCLUDE CONSTRUCTION OF NEW NON-STRUCTURAL PARTITIONS, CEILINGS, FINISHES, MECHANICAL, PLUMBING AND ELECTRICAL.
1.02 CONTRACT DESCRIPTION
A. Contract Type: A single prime contract based on a Guaranteed Maximum Price as described in Contract agreement.
1.03 DESCRIPTION OF ALTERATIONS WORK
A. Scope of alterations work is indicated on drawings.
1.04 WORK BY OWNER
A. Owner will supply the following for installation by Contractor:
1. Lockers
2. Digital Display Boards
3. Refrigerator
1.05 OWNER OCCUPANCY
A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.
B. Owner intends to occupy the Project upon Substantial Completion.
C. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
D. Schedule the Work to accommodate Owner occupancy.
1.06 CONTRACTOR USE OF SITE AND PREMISES
A. Construction Operations: Limited to areas noted on Drawings.
1. Locate and conduct construction activities in ways that will limit disturbance to site.
B. Arrange use of site and premises to allow:
1. Owner occupancy.
2. Use of site and premises by the public.
C. Provide access to and from site as required by law and by Owner:
1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
2. Do not obstruct roadways, sidewalks, or other public ways without permit.
D. Existing building spaces may not be used for storage.
E. Time Restrictions:
1. Limit conduct of especially noisy exterior work to the hours of 7:00 A.M. to 5:00 P.M..
F. Utility Outages and Shutdown:
1. Limit disruption of utility services to hours the building is unoccupied.
2. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
3. Prevent accidental disruption of utility services to other facilities.
4. Verify with landlord if temporary toilets are needed on site and clarify that contractors are not to use on site restrooms or facilities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

SECTION 01 2000
END OF SECTIONENT PROCEDURES

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Procedures for preparation and submittal of applications for progress payments.
B. Documentation of modifications in Contract Sum and Contract Time.
C. Modification procedures.
D. Correlation of Contractor submittals based on modifications.
E. Procedures for preparation and submittal of application for final payment.
1.02 SCHEDULE OF VALUES
A. Use Schedule of Values Form: AIA G703, edition stipulated in the Agreement.
B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit draft to Architect for approval.
C. Forms filled out by hand will not be accepted.
D. Submit Schedule of Values in duplicate within 15 days after date of Owner-Contractor Agreement.
E. Format: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification section. Identify site mobilization.
F. Include separately from each line item, a direct proportional amount of Contractor's overhead and profit.
G. Revise schedule to list approved Change Orders, with each Application For Payment.
1.03 APPLICATIONS FOR PROGRESS PAYMENTS
A. Payment Period: Submit at intervals stipulated in the Agreement.
B. Use Form AIA G702 GMP and Form AIA G703 CW, edition stipulated in the Agreement.
C. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Architect for approval.
D. Forms filled out by hand will not be accepted.
E. For each item, provide a column for listing each of the following:
1. Item Number.
2. Description of work.
3. Scheduled Values.
4. Previous Applications.
5. Work in Place and Stored Materials under this Application.
6. Authorized Change Orders.
7. Total Completed and Stored to Date of Application.
8. Percentage of Completion.
9. Balance to Finish.
10. Retainage.
F. Execute certification by signature of authorized officer.
G. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.
H. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of work.
I. Submit electronic copy of each Application for Payment.
J. Include the following with the application:
1. Transmittal letter as specified for submittals in Section 01 3000.
2. Construction progress schedule, revised and current as specified in Section 01 3000.
3. Partial release of liens from major subcontractors and vendors.
4. Conditional release of liens from each Subcontractor and vendor for the current month's payment application, and unconditional release of liens from each Subcontractor and vendor for the previous month's payment application.
5. Affidavits attesting to off-site stored products.
K. When Architect requires substantiating information, submit data justifying dollar amounts in question. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.
1.04 MODIFICATION PROCEDURES
A. Project Modification Forms: Forms for use primarily by Contractor will be provided by Architect upon request.
B. Establish and maintain a construction cost log, including the status of all pending and executed Change Orders (accepted, declined, pending, etc.), status of requests for information, supplemental instructions, other modification documents, and the status of allowances, including Owner's contingency allowance.
C. Requests for Information: Refer to Section 01 3000 - Administrative Requirements.
D. Supplemental Instructions: For minor changes not involving an adjustment to the Contract Sum or Contract Time, Architect will issue instructions directly to Contractor.
1. If Architect 's supplemental instructions require such a modification of the Contract Documents, prepare a request for change order or other modification according to applicable modification procedures specified in this Section.
E. Construction Change Directive: For other required changes, Architect will issue a document signed by Owner instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.
1. Architect 's issuance of supplemental instructions may constitute a modification of the Contract Documents involving an adjustment to the Contract Sum or Contract Time.
2. Promptly execute the change.
F. Proposal Request: For changes for which advance pricing is desired, Architect will issue a document that includes a detailed description of a proposed change with supplementary or revised drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within ten days.
G. Contractor may propose a change by submitting a request for change to Architect, describing the proposed change and its full effect on the work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation. Document any requested substitutions in accordance with Section 01 6000.
H. Computation of Change in Contract Amount: As specified in the Agreement and Conditions of the Contract.
1. For change requested by Architect for work falling under a fixed price contract, the amount will be based on Contractor's price quotation.
2. For change requested by Contractor, the amount will be based on the Contractor's request for a Change Order as approved by Architect.
3. For pre-determined unit prices and quantities, the amount will be based on the fixed unit prices.
4. For change ordered by Architect without a quotation from Contractor, the amount will be determined by Architect based on the Contractor's substantiation of costs as specified for Time and Material work.
I. Substantiation of Costs: Provide full information required for evaluation.
1. Provide the following data:
a. Quantities of products, labor, and equipment.
b. Taxes, insurance, and bonds.
c. Overhead and profit.
d. Justification for any change in Contract Time.
e. Credit for deletions from Contract, similarly documented.
2. Support each claim for additional costs with additional information:
a. Origin and date of claim.
b. Dates and times work was performed, and by whom.
c. Time records and wage rates paid.
d. Invoices and receipts for products, equipment, and subcontracts, similarly documented.
3. For Time and Material work, submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract.
J. Execution of Change Orders: Contractor will issue Change Orders for signatures of parties as provided in the Conditions of the Contract
K. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
L. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
M. Promptly enter changes in Project Record Documents.
1.05 APPLICATION FOR FINAL PAYMENT
A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
B. Application for Final Payment will not be considered until the following have been accomplished:
1. All closeout procedures specified in Section 01 7000.
2. Receipt of final Certificate of Occupancy from Authority Having Jurisdiction (AHJ)
3. Acceptance of Work by Owner and Architect.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 2500
SUBSTITUTION PROCEDURES

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Procedural requirements for proposed substitutions.
1.02 DEFINITIONS
A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.
1. Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control.
a. Unavailability.
b. Regulatory changes.
2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.
a. Substitution requests offering advantages solely to the Contractor will not be considered.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION
3.01 GENERAL REQUIREMENTS
A. Architect may consider requests for substitutions when one or more of the following conditions exist, as determined by Architect . If one or more of the following conditions are determined not to exist, Architect may not consider request further, and may take no action except to record the request and its non-compliance. Consideration may be made if substitution request:
1. Offers Owner substantial advantage in cost, time, energy conservation, or other consideration, after deducting additional responsibilities Owner must assume as the result.
2. Does not require extensive modification of Contract Documents.
3. Is consistent with intent of Contract Documents, and will produce intended work results.
4. Is fully documented and properly submitted.
5. Will not adversely affect Contractor's construction schedule.
6. Resolves specified Product being unable to receive required approval by Authority Having Jurisdiction (AHJ), and substitution has received such approval prior to submission.
7. Resolves incompatibility of specified Product with other related Products, and substitution is compatible with related Products.
8. Resolves non-coordination of specified Product with other related Products, and substitution is coordinated with related Products.
9. Provides specified warranty when specified Product cannot be provided with specified warranty
10. Will be considered when a Product becomes unavailable through no fault of the Contractor.
11. Will be considered if a Product cannot be provided within the Contract Time; Architect will not consider substitution if Product cannot be provided as the result of Contractor 's failure to schedule and coordinate the Work as required by Contract Documents.
12. Has been coordinated with and among all affected Subcontractors and other portions of the Work, and is acceptable to all affected Subcontractors.
B. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
2. Agrees to provide the same warranty for the substitution as for the specified product.
3. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
4. Waives claims for additional costs or time extension that may subsequently become apparent.
C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
D. Substitution Request Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
1. Forms indicated in the Project Manual are adequate for this purpose, and must be used.
E. Limit each request to a single proposed substitution item.
1. Submit an electronic document, combining the request form with supporting data into single document.
3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT
A. Submittal Time Restrictions:
1. Instructions to Bidders specifies time restrictions and the documents required for submitting substitution requests during the bidding period.
B. The words "or equal" and "or equivalent" are applicable to all Specifications and Drawings relating to materials, products or equipment specified. Any material, product, or equipment which will fully perform the duties specified will be considered for approval as "a substitute", provided the Contractor submits proof that such material, product or equipment is of acceptable equivalent substance and function and is accepted by the Architect by addendum prior to the bid opening.
C. No requests for substitution will be considered after the request for approval deadline. Contractor is responsible to determine suitability of approved substitute products for general construction purposes and scheduling requirements. Whenever a material or article is specified or described by using the name of a proprietary product or the name of a particular manufacturer or vendor, the specific item mentioned shall be understood as establishing type, function, dimension, appearance, and quality desired. Other manufacturer's products will be considered provided sufficient information is submitted to allow the Architect to determine whether products proposed are acceptable for use in project.
1. Requests for substitutions must clearly state what is offered and be complete with full data, including illustrations, specifications, capacities, operational data and samples.
2. Requests for Architect 's acceptance of substitute products for those specified shall be according to the following:
a. Requests in writing shall be received by the Architect at least seven (7) working days prior to the bid opening.
b. Detailed, complete information for a specific product must be provided with each request in order to permit accurate evaluation. Submissions consisting only of general catalogues or vague, incomplete data will not be considered.
D. It is the duty of the party making the request to provide sufficient information with the request. The Contractor shall identify each individual specified item and proposed substitute.
E. The burden of proof of acceptability rests with the Contractor .
F. Requests for approval of substitute items shall be categorically rejected if received after specified deadlines or if non-compliant with any conditions of this section or specification section of the product for which substitution approval is being requested.
G. Submittal Form (before award of contract):
1. Submit substitution requests by completing the form on Section 00 6000 - Project Forms. See this form for additional information and instructions. Use only this form; other forms of submission are unacceptable.
3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION
A. Submittal Form (after award of contract):
1. Submit substitution requests by completing the form described in Section 00 6000 - Project Forms. See this section for additional information and instructions. Use only this form; other forms of submission are unacceptable.
B. Architect will consider requests for substitutions only within 15 days after date of Agreement, unless otherwise indicated in the Owner Contractor Agreement.
C. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
D. Submit request for Substitution for Convenience within 14 days of discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost savings, time savings, greater energy conservation, or in other specific ways.
2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
3. Bear the costs engendered by proposed substitution of:
a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
E. Substitutions will not be considered under one or more of the following circumstances:
1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
2. Without a separate written request.
3. When acceptance will require revisions to Contract Documents.
3.04 REJECTION
A. Rejection of a Request for Substitution may be for any reason including: product incompatibility, past record of performance, parts availability, manufacturer' s representative' s service performance, available colors or finishes or any other factor which impacts the aesthetics, maintainability, durability or serviceability of the product. Acceptability of proposed substitutions is at the sole discretion of the Owner .
3.05 RESOLUTION
A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
B. Architect will notify Contractor in writing of decision to accept or reject request.
1. Architect's decision following review of proposed substitution will be noted on the submitted form.
3.06 ACCEPTANCE
A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.
B. Acceptance of substitutions shall in no way be interpreted as a waiver from full compliance with other specification requirements, unless requests for approval of substitute items specifically request relief from specified requirements and the requested relief is specifically granted in the approving addendum.
C. Any differences in utility requirements, hook up, fabrication, or construction between specified items and proposed substitutions shall be clearly identified in writing by the party making the request for approval of equals.
D. When the Architect accepts a product proposed by a supplier as being "equal" to a product specified in the Contract Documents and such proposed product requires a different quantity and/or arrangement of any other part of the work from that specified, detailed, stated in the Approval, or indicated on the Contract Documents, the Contractor shall provide the same at his own cost and expense.
3.07 CLOSEOUT ACTIVITIES
A. See Section 01 7800 - Closeout Submittals, for closeout submittals.
B. Include completed Substitution Request Forms as part of the Project record. Include both approved and rejected Requests.

END OF SECTION

SECTION 01 3000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL
1.01 SECTION INCLUDES
A. General administrative requirements.
B. Web-based project software service.
C. Electronic document submittal service.
D. Pre-construction meeting.
E. Progress meetings.
F. Construction progress schedule.
G. Construction logistics.
H. Submittals for review, information, and project closeout.
I. Number of copies of submittals.
J. Requests for Interpretation (RFI) procedures.
K. Submittal procedures.
1.02 GENERAL ADMINISTRATIVE REQUIREMENTS
A. Comply with requirements of Section 01 7000 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.
B. Make the following types of submittals to Architect:
1. Requests for Interpretation (RFI).
2. Requests for substitution.
3. Shop drawings, product data, and samples.
4. Test and inspection reports.
5. Design data.
6. Manufacturer's instructions and field reports.
7. Applications for payment and change order requests.
8. Progress schedules.
9. Coordination drawings.
10. Correction Punch List and Final Correction Punch List for Substantial Completion.
11. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION
3.01 WEB-BASED PROJECT SOFTWARE SERVICE
A. Web-Based Project Software Service: Provide, administer, and use web-based project software to host and manage project communication and documentation.
1. Include, at minimum, the following features:
a. Project directory, including Owner, Contractor, subcontractors, Architect, Architect's consultants, and other entities involved in the project. Include names of contact persons and contact information for each entity.
b. Access control for each entity and for each workflow process to determine each entity's digital rights to create, modify, view, and print documents.
c. Workflow planning, allowing customization of workflow for each project entity.
d. Creation, logging, tracking, and notification for project communications.
e. Tracking of project communication statuses in real time, including timestamped response log.
f. Procedures for viewing PDFs or similar file formats, allowing markups by each entity. Provide security features to lock markups against changes once submitted.
g. Processing and tracking of payment applications.
h. Processing and tracking of contract modifications.
i. Creation and distribution of meeting minutes.
j. Document management for drawings, specifications, and coordination drawings, including revision control.
k. Management of construction progress photographs.
l. Mobile device compatibility.
m. Creation of data analytics reports.
n. Creation and export of editable logs for software functions. Provide Owner, Architect, and Architect's consultants with rights and ability to download logs when requested.
2. Cost: Pay cost of service. Include the cost of the service in the contract sum.
3. Provide up to 20 user licenses for use by Owner, Architect, Architect's consultants, and other entities involved in the project.
4. Comply with the software service's current published licensing agreements.
5. Training: Provide one-hour, web-based training session for users of software service. Further training is the responsibility of the user.
a. Representatives of Owner are scheduled and included in this training.
6. Project Closeout: Architect determines when to terminate the software service for the project and is responsible for obtaining archive copies of files for Owner.
7. Web-Based Project Software Services: Use one of the following:
a. Substitutions: See Section 01 6000 - Product Requirements.
3.02 ELECTRONIC DOCUMENT SUBMITTAL SERVICE
A. All documents transmitted for purposes of administration of the contract are to be in electronic (PDF, MS Word, or MS Excel) format, as appropriate to the document, and transmitted via an Internetbased submittal service that receives, logs and stores documents, provides electronic stamping and signatures, and notifies addressees via email.
1. Besides submittals for review, information, and closeout, this procedure applies to Requests for Interpretation (RFIs), progress documentation, contract modification documents (e.g. supplementary instructions, change proposals, change orders), applications for payment, field reports and meeting minutes, Contractor's correction punchlist, and any other document any participant wishes to make part of the project record.
2. Contractor and Architect are required to use this service.
3. It is Contractor's responsibility to submit documents in allowable format.
4. Subcontractors, suppliers, and Architect's consultants are to be permitted to use the service at no extra charge.
5. Users of the service need an email address, internet access, and PDF review software that includes ability to mark up and apply electronic stamps (such as Adobe Acrobat, www.adobe.com, or Bluebeam PDF Revu, www.bluebeam.com), unless such software capability is provided by the service provider.
6. Paper document transmittals will not be reviewed; emailed electronic documents will not be reviewed.
7. All other specified submittal and document transmission procedures apply, except that electronic document requirements do not apply to samples or color selection charts.
B. Cost: The cost of the service is to be paid by Contractor; include the cost of the service in the Contract Sum.
C. Submittal Service: The selected service is:
1. Procore Construction Software: Procore Construction Management Software. www.procore.com
D. Training: One, one-hour, web-based training session will be arranged for all participants, with representatives of Architect and Contractor participating; further training is the responsibility of the user of the service.
1. Representatives of Owner are scheduled and included in this training.
E. Project Closeout: Architect will determine when to terminate the service for the project and is responsible for obtaining archive copies of files for Owner.
3.03 PRECONSTRUCTION MEETING
A. Schedule meeting after Notice of Award.
B. Attendance Required:
1. Owner.
2. Architect.
3. Contractor.
C. Agenda:
1. Execution of Owner-Contractor Agreement.
2. Submission of executed bonds and insurance certificates.
3. Distribution of Contract Documents.
4. Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
5. Submission of initial Submittal schedule.
6. Designation of personnel representing the parties to Contract and Architect.
7. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
8. Scheduling.
D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
3.04 PROGRESS MEETINGS
A. Schedule and administer meetings throughout progress of the work at maximum weekly intervals.
B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
C. Attendance Required:
1. Contractor.
2. Owner.
3. Architect.
4. Contractor's superintendent.
5. Major subcontractors.
D. Agenda:
1. Review minutes of previous meetings.
2. Review of work progress.
3. Field observations, problems, and decisions.
4. Identification of problems that impede, or will impede, planned progress.
5. Review of submittals schedule and status of submittals.
6. Review of RFIs log and status of responses.
7. Modifications (Change Order) status.
8. Maintenance of progress schedule.
9. Corrective measures to regain projected schedules.
10. Planned progress during succeeding work period.
11. Coordination of projected progress.
12. Maintenance of quality and work standards.
13. Effect of proposed changes on progress schedule and coordination.
14. Other business relating to work.
E. Record minutes and distribute copies within two days after meeting to participants, with copies to Architect, Owner, participants, and those affected by decisions made.
3.05 CONSTRUCTION PROGRESS SCHEDULE - SEE SECTION 01 3216
3.06 CONSTRUCTION LOGISTICS
A. Resource Optimization:
1. Utilize the best available resources to maximize efficiency and minimize cost associated to the project, by choosing the most cost-effective supplies, materials and equipment to complete the task and determining the most efficient means of transportation and storage.
2. Utilize vehicles for multiple purposes and optimizing routes for the transportation of materials.
B. Materials and Transport Planning:
1. Carefully calculate, assessment, and coordination of materials and transportation resources to ensure and efficient flow of supplies, materials and equipment.
2. Identify potential delivery delays or changes in materials requirements before the project begins.
C. Safety Compliance:
1. Ensure the safe transport of materials and equipment to and from the job site.
2. Ensure adequate safety compliance by implementing safe loading and unloading procedures, maintaining accurate inventory records, and ensuring that all personal abide by safety regulations.
3. Adhere to all applicable Occupational Safety and health Administartion (OSHA) standard operating procedures. Develop a comprehensive safety plan that outlines specific policies and protocols related to handling materials, equipment, and personnel on the job site.
4. The plan should consider potential risks and hazards associated with the construction project such as hazardous materials or extreme weather conditions. Safety protocols should be reviewed, documented, and updated periodically to ensure all personnel are aware of any changes or improvements in safety standards.
D. Team Training:
1. Provide continuous team training in construction logistics, risk management, material handling, scheduling, quality control, supply chain management, job site safety, and other training pertinent to the project.
E. Scheduling of Resources:
1. Plan and schedule labor, equipment, materials and other resources to ensure that the project is completed on time and within budget, and use resources effectively and efficiently.
F. Construction Site Flow:
1. Evaluate traffic flow around the site to ensure safety and efficiency. Include both, people and vehicles that need access to the site, for maintaining productivity while keeping workers safe.
G. Required Equipment:
1. Develop a project logistics plan including all necessary equipment for completing the project. This includes renting or purchasing tools, machinery, and other materials needed to complete the job.
2. Require all workers wear appropriate Personal Protective Equipment (PPE) such as but not limited to work boots, safety vets, hardhats, and gloves. Certain construction tasks will require additional specialized protection including fall protection, scaffolding, and respiratory protection. Contractor shall require all personnel, including visitors, wear the appropriate PPE on site.
H. Benchmark Tracking:
1. Monitor the progress of the project and compare it against pre-established targets to ensure the project remains on schedule and within the budget.
2. Identify potential problems early, allowing for immediate corrective action to help to avoid costly delays and reduce the risk of cost overruns.
I. Risk Management:
1. Assess the potential risks during construction and develop contingency plans to address the issues. Risk factors range from natural disasters, such as floods, earthquakes, to unexpected changes in materials costs or labor availability. The risk manager should identify any potential weaknesses in the project plan and suggest way to improve them.
J. Leverage Logistics Technology and Software:
1. Leveraging logistics technology and software to construct a successful logistics plan is essential.
2. Use logistics technology to streamline processes and increase efficiency throughout the supply chain work.
K. Plan for Building Access:
1. Create a plan for building access and construction logistics, selecting materials and equipment and organizing deliveries; considering best practices in the industry.
2. Includes examining safety protocols, permits needed, arranging over-dimension loads, security measures, site layout management, storage solutions and traffic control plans.
L. Construction Logistics Site Plan:
1. Submit drawing to Owner and Architect for review and approval prior to mobilization to coordinate construction activities. Drawings should include if applicable:
a. Construction barriers, fencing, and access points.
b. Construction trailers and temporary offices.
c. Staging, storage areas, and conexes.
d. Sanitation facilities.
e. Waste removal facilities.
f. Construction personnel parking.
g. Emergency contact information.
3.07 REQUESTS FOR INTERPRETATION (RFI)
A. Definition: A request seeking one of the following:
1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in Contract Documents.
2. A resolution to an issue which has arisen due to field conditions and affects design intent.
B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.
C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
1. Prepare a separate RFI for each specific item.
a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
b. Do not forward requests which solely require internal coordination between subcontractors.
2. Prepare using an electronic version of the form appended to this manual.
3. Prepare using software provided by the Electronic Document Submittal Service.
4. Combine RFI and its attachments into a single electronic file. PDF format is preferred.
D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information requiring interpretation.
2. Unacceptable Uses for RFIs: Do not use RFIs to request the following:
a. Approval of submittals (use procedures specified elsewhere in this section).
b. Approval of substitutions (see Section - 01 6000 - Product Requirements) and 01 2500 - Substitution Procedures.
c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
d. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
3. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response, with an explanatory notation.
4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
1. Official Project name and number, and any additional required identifiers established in Contract Documents.
2. Owner's, Architect's, and Contractor's names.
3. Discrete and consecutive RFI number, and descriptive subject/title.
4. Issue date, and requested reply date.
5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
6. Annotations: Field dimensions and/or description of conditions which have engendered the request.
7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.
F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.
G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
1. Indicate current status of every RFI. Update log promptly and on a regular basis.
2. Note dates of when each request is made, and when a response is received.
3. Highlight items requiring priority or expedited response.
4. Highlight items for which a timely response has not been received to date.
H. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.
I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered, and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.
2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
4. Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.
3.08 SUBMITTAL SCHEDULE
A. Submit to Architect for review a schedule for submittals in tabular format.
1. Submit at the same time as the preliminary schedule specified in Section - 01 3216 - Construction Progress Schedule.
2. Coordinate with Contractor's construction schedule and schedule of values.
3. Format schedule to allow tracking of status of submittals throughout duration of construction.
4. Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for information), description of item of work covered, and role and name of subcontractor.
5. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and review deadline dates.
a. For assemblies, equipment, systems comprised of multiple components and/or requiring detailed coordination with other work, allow for additional time to make corrections or revisions to initial submittals, and time for their review.

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LICENSED ARCHITECT
BRANDON A. DARGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	KA
Checked By:	BD

Sheet Name
SPECIFICATIONS

G-002.1

3.09 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
1. Product data.
2. Shop drawings.
3. Samples for selection.
4. Samples for verification.

B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.
C. Samples will be reviewed for aesthetic, color, or finish selection.
D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - Closeout Submittals.

3.10 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
1. Design data.
2. Certificates.
3. Test reports.
4. Inspection reports.
5. Manufacturer's instructions.
6. Manufacturer's field reports.
7. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for Owner.

3.11 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.
B. Submit Final Correction Punch List for Substantial Completion.
C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 7800 - Closeout Submittals:
1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.

D. Submit for Owner's benefit during and after project completion.

3.12 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.
B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
1. After review, produce duplicates.
2. Retained samples will not be returned to Contractor unless specifically so stated.

3.13 DIGITAL DRAWING FILES

A. Architect 's Digital Files: Upon request by Contractor, a digital copy of Project Building Information Model (BIM) or CADD Drawing files will be provided as a courtesy for Contractor 's limited use. Such information is not considered to be a part of the Contract Documents.
1. Use of this information is at Contractor 's sole risk.
2. Report to Architect discrepancies, if any, between published Contract Documents and information provided according to General Conditions and other administrative requirements of the Contract.
3. Architect is not responsible for updating or maintaining currency of digital drawing files after initially provided to Contractor .
4. Submittals prepared using any of these files as the primary submittal content without the inclusion of substantial additional content generated by Contractor according to specified requirements for applicable submittals will not be accepted or reviewed by Architect.

3.14 SUBMITTAL PROCEDURES

A. General Requirements:
1. Use a separate transmittal for each item.
2. Transmit using approved form.
3. Sequentially identify each item. For revised submittals use original number and a sequential numerical suffix.
4. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on each copy.
5. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.
a. Submittals from sources other than the Contractor, or without Contractor's stamp will not be acknowledged, reviewed, or returned.
6. Deliver each submittal on date noted in submittal schedule, unless an earlier date has been agreed to by all affected parties, and is of the benefit to the project.
a. Upload submittals in electronic form to Electronic Document Submittal Service website.
7. Schedule submittals to expedite the Project, and coordinate submission of related items.
a. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
b. For sequential reviews involving Architect's consultants, Owner, or another affected party, allow an additional 7 days.
c. Number multiple submittals within each Section sequentially as a suffix, starting with 001.
d. If manufacturer's published catalog information is used as part of a submittal, include only those pages from catalog that are specifically applicable to the proposed products for this Project.
e. Clearly identify in the submittal those specific products and components for which review and action is requested.
f. Submittals received that do not clearly identify specific applicable products, or that include more pages than those specifically applicable to the subject submittal, will be returned as "not reviewed" and the time for submittal review will not commence until a properly scoped submittal is received by Architect.
8. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of the completed work.
9. Provide space for Contractor and Architect review stamps.
10. When revised for resubmission, identify all changes made since previous submission.
11. Distribute reviewed submittals. Instruct parties to promptly report inability to comply with requirements.
12. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
13. Submittals not requested will not be recognized or processed.

B. Product Data Procedures:
1. Submit only information required by individual specification sections.
2. Collect required information into a single submittal.
3. Submit concurrently with related shop drawing submittal.
4. Do not submit (Material) Safety Data Sheets for materials or products.

C. Shop Drawing Procedures:
1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
2. Do not reproduce Contract Documents to create shop drawings.
3. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

D. Samples Procedures:
1. Transmit related items together as single package.
2. Identify each item to allow review for applicability in relation to shop drawings showing installation locations.

3.15 SUBMITTAL REVIEW

A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.
B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.
C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
D. Architect's and consultants' actions on items submitted for review:
1. Authorizing purchasing, fabrication, delivery, and installation:
a. "No Exception Taken".
b. "Revise as Noted".
1) Resubmit corrected item, with review notations acknowledged and incorporated. Resubmit separately, or as part of project record documents.
2. Not Authorizing fabrication, delivery, and installation:
a. "Revise and Resubmit".
1) Resubmit revised item, with review notations acknowledged and incorporated.
2) Non-responsive resubmittals may be rejected.
b. "Rejected Resubmit".
1) Submit item complying with requirements of Contract Documents.

E. Architect's and consultants' actions on items submitted for information:
1. Items for which no action was taken:
a. "Not Reviewed" - to notify the Contractor that the submittal has been received for record only.

F. Where submittals include a material, product, system, or manufacturer substitution which has not been previously accepted or approved in writing, Architect reserves the right to reject such submittal and require a compliant submittal, or may direct that other action be taken by Contractor to achieve compliance with Contract Documents, and no claim for delay by Contractor will be allowed.
G. Architect's review is for general conformance only and does not relieve Contractor from full compliance with the Contract Documents. Refer to General Conditions.

END OF SECTION

SECTION 01 3216
CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preliminary schedule.
B. Construction progress schedule, bar chart type.

1.02 SUBMITTALS

A. Within 10 days after date of Agreement, submit preliminary schedule.
B. Within 5 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
C. Submit updated schedule with each Application for Payment.
D. Submit in PDF format.

1.03 QUALITY ASSURANCE

A. Scheduler: Contractor's personnel or specialist Consultant specializing in CPM scheduling with one years minimum experience in scheduling construction work of a complexity comparable to this Project, and having use of computer facilities capable of delivering a detailed graphic printout within 48 hours of request.

1.04 SCHEDULE FORMAT

A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.
B. Diagram Sheet Size: Maximum 22 x 17 inches.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRELIMINARY SCHEDULE

A. Prepare preliminary schedule in the form of a horizontal bar chart.

3.02 CONTENT

A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
B. Identify each item by specification section number.
C. Identify work of separate stages and other logically grouped activities.
D. Provide sub-schedules to define critical portions of the entire schedule.
E. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.
F. Indicate delivery dates for owner-furnished products.
G. Coordinate content with schedule of values specified in Section 01 2000 - Price and Payment Procedures.
H. Provide legend for symbols and abbreviations used.

3.03 BAR CHARTS

A. Include a separate bar for each major portion of Work or operation.
B. Identify the first work day of each week.

3.04 NETWORK ANALYSIS

A. Prepare network analysis diagrams and supporting mathematical analyses using the Critical Path Method.
B. Illustrate order and interdependence of activities and sequence of work; how start of a given activity depends on completion of preceding activities, and how completion of the activity may restrain start of subsequent activities.
C. Mathematical Analysis: Tabulate each activity of detailed network diagrams, using calendar dates, and identify for each activity:
1. Preceding and following event numbers.
2. Activity description.
3. Estimated duration of activity, in maximum 15 day intervals.
4. Earliest start date.
5. Earliest finish date.
6. Actual start date.
7. Actual finish date.
8. Latest start date.
9. Latest finish date.
10. Total and free float; float time shall accrue to Owner and to Owner's benefit.
11. Monetary value of activity, keyed to Schedule of Values.
12. Percentage of activity completed.
13. Responsibility.

D. Analysis Program: Capable of compiling monetary value of completed and partially completed activities, accepting revised completion dates, and recomputation of all dates and float.
E. Required Reports: List activities in sorts or groups:
1. By preceding work item or event number from lowest to highest.
2. By amount of float, then in order of early start.
3. In order of latest allowable start dates.
4. In order of latest allowable finish dates.
5. Listing of activities on the critical path.

3.05 REVIEW AND EVALUATION OF SCHEDULE

A. Participate in joint review and evaluation of schedule with Architect at each submittal.
B. Evaluate project status to determine work behind schedule and work ahead of schedule.
C. After review, revise as necessary as result of review, and resubmit within 10 days.

3.06 UPDATING SCHEDULE

A. Maintain schedules to record actual start and finish dates of completed activities.
B. Indicate progress of each activity to date of revision, with projected completion date of each activity.
C. Annotate diagrams to graphically depict current status of Work.
D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.
E. Indicate changes required to maintain Date of Substantial Completion.
F. Submit reports required to support recommended changes.
G. Provide narrative report to define problem areas, anticipated delays, and impact on the schedule. Report corrective action taken or proposed and its effect.

3.07 DISTRIBUTION OF SCHEDULE

A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, and other concerned parties.
B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

END OF SECTION

SECTION 01 4000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submittals.
B. Quality assurance.
C. References and standards.
D. Testing and inspection agencies and services.
E. Contractor's design-related professional design services.
F. Control of installation.
G. Mock-ups.
H. Tolerances.
I. Manufacturers' field services.
J. Defect Assessment.
K. Basis of Design specifications.

1.02 REFERENCE STANDARDS

A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2023).
B. ASTM C1077 - Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation; 2025a.
C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2023.
D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2023.
E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection; 2025a.
F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2021.
G. ASTM E699 - Standard Specification for Agencies Involved in Testing, Quality Assurance, and Evaluating of Manufactured Building Components; 2016.

1.03 DEFINITIONS

A. Contractor's Professional Design Services: Design of some aspect or portion of the project by party other than the design professional of record. Provide these services as part of the Contract for Construction.
1. Design Services Types Required:
a. Design-Related: Design services explicitly required to be performed by another design professional due to highly-technical and/or specialized nature of a portion of the project. Services primarily involve engineering analysis, calculations, and design, and are not intended to alter the aesthetic aspects of the design.

B. Design Data: Design-related, signed and sealed drawings, calculations, specifications, certifications, shop drawings and other submittals provided by Contractor, and prepared directly by, or under direct supervision of, appropriately licensed design professional.

1.04 CONTRACTOR'S DESIGN-RELATED PROFESSIONAL DESIGN SERVICES

A. Coordination: Contractor's professional design services are subject to requirements of project's Conditions for Construction Contract.
B. Base design on performance and/or design criteria indicated in individual specification sections.
1. Submit a Request for Interpretation to Architect if the criteria indicated are not sufficient to perform required design services.
C. Scope of Contractor's Professional Design Services: Provide for the following items of work:
1. Structural Design of Metal Framing: As described in Section 05 4000 - Cold-Formed Metal Framing.
2. Structural Design of Metal Fabrications: As described in Section 05 5000 - Metal Fabrications.
3. Structural Design of Stairs: As described in Section 05 5100 - Metal Stairs.
4. Structural Design of Railings: As described in Section 05 5213 - Pipe and Tube Railings.
5. Structural Calculations: As described in Section 07 4213.23 - Metal Composite Material Wall Panels.
6. Structural Design: Include physical characteristics, engineering calculations, and resulting dimensional limitations as described in Section 08 4313 - Aluminum-Framed Storefronts.
7. Structural Design: Include calculations for resisting wind loads, anchor locations, loads at points of attachment to building structure, physical characteristics, resulting dimensional limitations as described in Section 08 4413 - Glazed Aluminum Curtain Walls.
8. Structural Design: Include calculations for resisting wind loads, physical characteristics, resulting dimensional limitations as described in Section 08 4500 - Translucent Wall and Roof Assemblies.
9. Structural Design of Foundation: As described in Section 10 7500 - Flagpoles.
10. Sprinkler Layout: Coordinate with ceiling installation, detailed pipe layout, and hydraulic calculations as described in Section 21 1300 - Fire-Suppression Sprinkler Systems.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for Owner's information.
1. Include a statement or certification attesting that design data complies with criteria indicated, such as building codes, loads, functional, and similar engineering requirements.
2. Include signature and seal of design professional responsible for allocated design services on calculations and drawings.
C. Test Reports: After each test/inspection, testing agency will promptly submit two copies of report to Architect and to Contractor.
1. Transmit one copy of each report to Owner , if requested.
2. Provide additional copies of each test/inspection report for Contractor 's design consultants, including but not limited to a special consultant; transmit to each design consultant's address concurrently, if requested by Owner .
3. Include in content of reports:
a. Date issued.
b. Project title and number.
c. Name of inspector.
d. Date and time of sampling or inspection.
e. Identification of product and specifications section.
f. Location in the Project.
g. Type of test/inspection.
h. Date of test/inspection.
i. Results of test/inspection.
j. Compliance with Contract Documents.
k. When requested by Architect, provide interpretation of results.
4. Test report submittals are for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for Owner's information.
D. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
2. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect.
E. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.
F. Manufacturer's Field Reports: Submit reports for Architect's benefit as contract administrator or for Owner.
1. Submit report in duplicate within 30 days of observation to Architect for information.
2. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents.

1.06 QUALITY ASSURANCE

A. Testing Agency Qualifications:
1. Prior to start of work, submit agency name, address, and telephone number, and names of full time registered Engineer and responsible officer.
B. Designer Qualifications: Where professional engineering design services and design data submittals are specifically required of Contractor by Contract Documents, provide services of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

1.07 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
C. Obtain copies of standards where required by product specification sections.
D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference standard document.

1.08 QUALITY CONTROL - GENERAL

A. Maintain quality control over subcontractors, suppliers, manufacturers, products, services, site conditions, and workmanship to produce Work of specified quality according to the requirements of the Contract Documents.
B. Special Testing and Inspection: It is recognized that specified special testing and inspection program is intended to assist Contractor , Owner , Architect , and jurisdictional authorities in nominal determination of probable compliance with specified requirements for certain elements of the Work. This program is not intended to limit Contractor 's standard quality control program.

1.09 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Contractor shall employ and pay for services of an independent testing agency to perform specified testing.
B. As indicated in individual specification sections, Owner or Contractor shall employ and pay for services of an independent testing agency to perform other specified testing.
C. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
D. Contractor Employed Agency:
1. Testing agency: Comply with requirements of ASTM E329, ASTM E543, ASTM E699, ASTM C1021, ASTM C1077, ASTM C1093, and ASTM D3740.
2. Inspection agency: Comply with requirements of ASTM E329.

1.10 BASIS OF DESIGN SPECIFICATIONS

A. Individual specification Sections may include a Basis of Design Manufacturer or Product, which forms the basis of the specifications, Drawing details, and other requirements of the Contract Documents. The specified Basis of Design Manufacturer or Product is not intended to exclude other manufacturers, products, or systems which comply with the requirements of the Contract Documents, subject to the provisions and requirements specified in individual specification Sections.
B. Comply with the administrative requirements for substitutions specified in Section 01 2500 for proposed products or systems other than the specified Basis of Design Manufacturer or Product.

1.11 DELEGATED DESIGN REQUIREMENTS

A. Performance and Design Requirements: Where professional design services or certifications by a licensed design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with performance and design requirements specified in individual specification Sections.
B. If specified performance or design requirements are not sufficiently complete to perform required services or provide required certifications, submit a written request for additional information to Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
B. Comply with manufacturers' instructions, including each step in sequence.
C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
E. Have work performed by persons qualified to produce required and specified quality.
F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 MOCK-UPS

A. Before installing portions of the Work where mock-ups are required, construct mock-ups in location and size indicated for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work. The purpose of mock-up is to demonstrate the proposed range of aesthetic effects and workmanship.
B. Accepted mock-ups establish the standard of quality the Architect will use to judge the Work.
C. Exterior Mock-ups: Construct integrated exterior mock-up or a composite mock-up wall panel separated from building as detailed on Drawings. Coordinate installation of exterior envelope materials and products as required in individual Specification Sections. Provide adequate supporting structure for mock-up materials as necessary.
1. Include typical and unique material and fenestration transition conditions, and typical roof applications.
2. When finish materials are installed on mock-up, provide partial cut-away features which leave concealed drainage plane components including weather barriers, flashings, and sealants remain visible for ongoing reference throughout construction process.
3. Once mock-up has been accepted by Architect, maintain mock-up in accepted condition for remaining duration of Contract Time. Remove mock-up and clear area immediately prior to Substantial Completion, and complete remaining work in the area, if any.
D. Notify Architect seven (7) working days in advance of dates and times when mock-ups will be constructed.
E. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections.
F. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.
G. Obtain Architect's approval of mock-ups before starting work, fabrication, or construction.
1. Architect will issue written comments within seven (7) working days of initial review and each subsequent follow up review of each mock-up.
2. Make corrections as necessary until Architect's approval is issued.
H. Architect will use accepted mock-ups as a comparison standard for the remaining Work.
I. Where mock-up has been accepted by Architect and is specified in product specification sections to be removed, protect mock-up throughout construction, remove mock-up and clear area when directed to do so by Architect.

3.03 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
C. Adjust products to appropriate dimensions; position before securing products in place.

3.04 TESTING AND INSPECTION

A. See individual specification sections and Structural Drawings for testing and inspection required.
B. Testing Agency Duties:
1. Test samples of mixes submitted by Contractor.
2. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
3. Perform specified sampling and testing of products in accordance with specified standards.
4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
5. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
6. Perform additional tests and inspections required by Architect.
7. Attend preconstruction meetings and progress meetings.
8. Submit reports of all tests/inspections specified.
C. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work.
3. Agency may not assume any duties of Contractor.
4. Agency has no authority to stop the Work.
D. Contractor Responsibilities:
1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
3. Provide incidental labor and facilities:
a. To provide access to Work to be tested/inspected.
b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
c. To facilitate tests/inspections.
d. To provide storage and curing of test samples.
4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
E. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.
F. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.05 MANUFACTURERS' FIELD SERVICES

A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance equipment as applicable, and to initiate instructions when necessary.
B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.06 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.
B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment with Owner's consent.

END OF SECTION

SECTION 01 4216
DEFINITIONS AND EXPLANATIONS

PART 1 GENERAL

1.01 SUMMARY

A. This section supplements the definitions contained in the General Conditions and other Contract Documents.
B. Other definitions are included in individual specification sections.
C. Limitations: Definitions and explanations are not necessarily complete or exclusive, but are generally applicable to the Work to the extent such definitions or explanations are not stated more explicitly in other provisions of the Contract Documents.
This program is not intended to limit Contractor 's standard quality control program.

1.02 SPECIFICATION EXPLANATIONS

A. Division 01 General Requirements: Expand on the broad provisions of the Conditions of the Contract, and govern the execution of the work of all Sections of the specifications. Division 01 General Requirements specify administrative and procedural requirements relating to execution of the Work, and temporary facilities for use during the construction period.
B. Sections and Divisions: The basic unit of specification text is the "Section," each of which is named and numbered. These are organized into related families called "Divisions," which generally conform to the most current edition of "MasterFormat" as published by CSI. Any Section title is not intended to limit meaning or content of Section, nor to be fully descriptive of requirements specified therein, nor to be an integral part of the text.
C. Imperative Language: Used generally in the Specifications. Except as otherwise specified, requirements expressed imperatively are to be performed by Contractor . For clarity of reading at certain locations, contrasting subjective language is used to describe the responsibilities which must be fulfilled either indirectly by Contractor , or when so noted by others.

1.03 SPECIFICATION CONTENT CONVENTIONS

A. Overlapping Requirements: Where compliance with two or more industry standards or sets of requirements is specified, and overlapping of those requirements also establishes different or conflicting minimums or levels of quality, the more stringent requirement will be enforced (which is generally the more costly level).
B. Refer apparently equal but different requirements and uncertainties as to which level of quality is required to Contractor for interpretation or decision before proceeding.
C. Specification Minimum: In every instance, the specified requirement is the minimum to be performed or fulfilled. In complying with minimum requirements, the indicated numeric values are either minimums or maximums as noted or as appropriate for the context of the requirement. Refer instances of uncertainty to Contractor for decision.
D. Abbreviations: The language of the Specifications and elsewhere in the Contract Documents is of the abbreviated type in certain instances, and implies words and meanings which will be appropriately interpreted. Actual work abbreviations of a self-explanatory nature have been included in the text.
E. Trade associations and general standards are frequently abbreviated. Singular words will be interpreted as plural and plural words will be interpreted as singular wherever applicable and wherever the full context of the requirements so indicate.
F. Specialists: In certain instances the Specification text may require that specific work be assigned to certain specialists or expert entities for the performance of those units of the Work. These are specified as requirements on which the Contractor has no choice or option.

1.04 DEFINITIONS

A. Approve/Approved: Where used in conjunction with Owner's or Owner's consultant response to submittals, requests, applications, inquiries, reports, and claims by Contractor , the meaning of the term "approve" or "approved" will be held to the limitations of Owner's responsibilities and duties as specified in Section 01 3000 and stipulated in the General Conditions of the Contract. In no case will approval by Contractor be interpreted as an assurance to Contractor that the requirements of the Contract Documents have been fulfilled.
B. By Others: Work performed by entities outside the Contract; interchangeable with "NIC" or "Not in Contract."
C. Contract Documents: Those documents defined in the Owner-Contractor Agreement (Contract) as applicable to the construction of the Project by Contractor .
D. Contractor 's Option: Where materials, products, systems or methods are specified to be at Contractor 's option, the choice of which material, method, product, or system will be used is solely Contractor 's. There will be no change in Contract Sum or Time because of such choice.
E. Demolish (Demo): Dismantle a defined component of existing construction, remove it from the Site, and dispose of it either as specified or in lawful manner.
F. Directed, Requested, etc.: Where not otherwise explained, terms such as "directed," "requested," "authorized," "selected," "approved," "required," "accepted," and "permitted" mean "directed by Contractor ", "requested by Owner", etc. However, no such implied meaning will be interpreted to extend Contractor 's responsibility into Contractor s area of construction supervision.
G. Dispose: Remove from the Project Site in lawful manner.
H. Drawings: Capitalized term referring to the drawings prepared by Contractor and its design consultants, and by any Owner consultants as applicable; bound and published as a sub-set of the Contract Documents as defined in Owner-Contractor Agreement (Contract). Non-capitalized term "drawings" used in the Contract Documents generally refers to other drawings not part of the Contract Documents, unless the context explicitly indicates otherwise.
I. Equipment: Defined as products with operational parts, regardless of whether motorized or manually operated, and particularly including connections (wiring, piping, etc.).
J. Final Acceptance: The administrative action taken by Owner authorizing final payment and settlement of the Contract.
K. Furnish: To supply, deliver, unload, and inspect for damage (by Contractor).
L. General Requirements: Provisions or requirements of Division 01 specification Sections. General Requirements apply to the entire Work of the Contract and, where so indicated, to other elements of work which are included in the Project. See specification explanations in this Section.
M. Indicated: Cross reference to details, notes or schedules on the Drawings, other paragraphs or schedules in the Specifications, and similar means of recording requirements in the Contract Documents. Where terms such as "shown," "noted," "scheduled," and "specified" are used in lieu of "indicated," it is for the purpose of helping the reader accomplish the cross reference, and no limitation is intended except as specifically noted.
N. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use (by Contractor).
O. Installer: The entity (person or firm) engaged by Contractor or his Subcontractor or Subsubcontractor for the performance of a particular unit of work at the project site, including installations, erection, application and similar required operations.
P. Material(s): Defined as products which must be substantially cut, shaped, worked, mixed, finished, refined or otherwise fabricated, processed, installed or applied to form units of work.
Q. Not in Contract (NIC): Work performed by entities outside the Contract; interchangeable with "By Others."
R. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.
S. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the specifications.
T. Provide: To furnish and install.
U. Reinstall: Install a removed component of existing construction into new construction as indicated.
V. Remove: Dismantle a defined component of existing construction in a manner which protects and preserves the component for future use/installation; definition includes lawful disposal, unless otherwise specifically indicated to be reinstalled, salvaged, or other described action.
W. Salvage: Remove in a manner preserving the existing condition and integrity of the component, set aside, store and protect for future reinstallation.
X. Supply: Same as Furnish.
Y. Testing Agency/Laboratory: An independent entity engaged to perform specific inspections or tests of the Work, either at the project site or elsewhere; and to report and (if required) interpret the results of those inspections or tests.
Z. Work (the Work): Capitalized term referring to the entire scope of work of the Project as defined in the Contract Documents. Non-capitalized term "work" used in the Contract Documents generally refers to work by specific trades or other entities as components or phases of the Work, unless the context explicitly indicates otherwise.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 6000
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General product requirements.
B. Re-use of existing products.
C. Transportation, handling, storage and protection.
D. Product option requirements.
E. Substitution limitations.
F. Procedures for Owner-supplied products.
G. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 REFERENCE STANDARDS

A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 SUBMITTALS

A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
1. Submit within 20 days after date of Notice to Proceed.
2. For products specified only by reference standards, list applicable reference standards.
B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.
B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.
C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.

2.02 NEW PRODUCTS - GENERAL

A. Provide new products unless specifically required or permitted by Contract Documents.
B. See Section 01 4000 - Quality Requirements, for additional source quality control requirements.
C. DO NOT USE products having any of the following characteristics:
1. Made using or containing CFC's or HCFC's.
2. Containing lead, cadmium, or asbestos.
D. Where other criteria are met, Contractor shall give preference to products that:
1. If used on interior, have lower emissions, as defined in Section 01 6116.
2. If wet-applied, have lower VOC content, as defined in Section 01 6116.
3. Are extracted, harvested, and/or manufactured closer to the location of the project.
4. Have longer documented life span under normal use.
5. Are made of vegetable materials that are rapidly renewable.
6. Are made of recycled materials.
E. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Size terminal lugs to NFPA 70, include lugs for terminal box.
F. Cord and Plug: Provide minimum 6 foot cord and plug including grounding connector for connection to electric wiring system. Cord of longer length is specified in individual specification sections.

2.03 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
B. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.
C. Products Specified as Basis-of-Design: Submit substitution requests for unnamed products to Architect for evaluation.
D. Products Specified by Naming as Basis of Design Manufacturer or Product with a Provision for Substitutions: Submit a request for substitution for any other manufacturer listed under Manufacturers, to confirm the proposed substitution meets or exceed the performance of the product specified as a Basis of Design.

2.04 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
B. Deliver and place in location as directed; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION PROCEDURES

A. See Section 01 2500 - Substitution Procedures.

3.02 OWNER-SUPPLIED PRODUCTS

A. See Section 01 1000 - Summary for identification of Owner-supplied products.
B. Owner's Responsibilities:
1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
2. Arrange and pay for product delivery to site.
3. On delivery, inspect products jointly with Contractor.
4. Submit claims for transportation damage and replace damaged, defective, or deficient items.
5. Arrange for manufacturers' warranties, inspections, and service.

MOA ARCHITECTURE
WYOMING | COLORADO
259 S. CENTER STREET, SUITE 206
CASPER, WYOMING 82601
307.268.9890
moaarch.com

CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	KA
Checked By:	BD
Copyright:	

Sheet Name
SPECIFICATIONS

G-002.2

B. Rolled Materials:
1. Self-adhering polyethylene film.
2. Recycled cellulose fiberboard paper.
3. Laminated glass fiber reinforced kraft paper.
4. Rosin coated paper.
5. Flame Retardance: Meet requirements of NFPA 701.
6. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84.
C. Corner and Door Jamb Protection Materials:
1. Cardboard, shaped specifically for application.
2. PVC plastic.
D. Tape: Type recommended by protective covering material manufacturer.

PART 3 EXECUTION

3.01 PREPARATION

A. Remove dirt and debris from surfaces to be protected.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. Trim or overlap sheet materials to fit area to be covered.
C. Roll out and cut rolled materials to fit area to be covered.
D. Tape seams. Avoid taping directly to finished surfaces.
E. Stretch self-adhering film materials to completely cover surface.
F. Install door jamb protection to full height of opening.

3.03 REMOVAL

A. Remove protective coverings prior to Date of Substantial Completion. Reuse or recycle materials if possible.

END OF SECTION

SECTION 01 7800
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project record documents.
B. Operation and maintenance data.
C. Warranties and bonds.

1.02 SUBMITTALS

A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
B. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
C. Operation and Maintenance Data:
1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect will review draft and return one copy with comments. If owner accepts digital only, the copies may be submitted digitally.
2. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
3. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect comments. Revise content of all document sets as required prior to final submission. If owner accepts digital only, the copy may be submitted digitally.
4. Submit two sets of revised final documents in final form within 10 days after final inspection.
D. Warranties and Bonds:
1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
1. Drawings.
2. Specifications.
3. Addenda.
4. Change Orders and other modifications to the Contract.
5. Reviewed shop drawings, product data, and samples.
6. Manufacturer's instruction for assembly, installation, and adjusting.
7. Field inspection reports, permits, approvals, test reports, certifications, and other documents used in the construction of the facility or the fabrication of its components and systems.
B. Ensure entries are complete and accurate, enabling future reference by Owner.
C. Store record documents separate from documents used for construction.
D. Record information concurrent with construction progress.
E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
1. Manufacturer's name and product model and number.
2. Product substitutions or alternates utilized.
3. Changes made by Addenda and modifications.
F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
1. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
2. Field changes of dimension and detail.
3. Details not on original Contract drawings.
G. Record Drawings Format:
1. Autodesk AutoCAD / Revit format submittals:
a. Fire Alarm plans(s) corrected to reflect actual installation
b. Mechanical Control plan(s)
2. All document files shall be submitted in electronic PDF format in addition to all CAD files.

3.02 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:
1. Information for re-ordering custom manufactured products, if any.
B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.
C. Additional information as specified in individual product specification sections.
D. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:
1. Description of unit or system, and component parts.
2. Identify function, normal operating characteristics, and limiting conditions.
3. Include performance curves, with engineering data and tests.
4. Complete nomenclature and model number of replaceable parts.
B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.
C. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.
D. Include manufacturer- or installer-produced color coded wiring diagrams representing installed conditions.
E. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.
F. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
G. Provide servicing and lubrication schedule, and list of lubricants required.
H. Include manufacturer's printed operation and maintenance instructions.
I. Include sequence of operation by controls manufacturer.
J. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
K. Provide control diagrams by controls manufacturer as installed.
L. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
M. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
N. Include test and balancing reports.
O. Additional Requirements: As specified in individual product specification sections.

3.05 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS

A. Assemble operation and maintenance data into durable manuals for Owner's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.
B. Where systems involve more than one specification section, provide separate tabbed divider for each system.
C. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
E. Electronic Cover Page: Identify each file with first page titled OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
F. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect, Consultants, Contractor and subcontractors, with names of responsible parties.
G. Tables of Contents: List every item separated by a divider and electronic bookmarking, using the same identification on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified. Arrange content by systems under Section numbers and sequence of Table of Contents of this Project Manual.
H. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.
I. Electronic Bookmarking: Provide electronically bookmarked divider pages in each file for each separate product and system; identify the contents on the divider page; immediately following the divider page include a description of product and major component parts of equipment.
J. Text: Manufacturer's printed data, or typewritten data on 20 pound paper.
K. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
L. Electronic Format: Include the following on flash/thumb drives:
1. Files names prefixes with the volume and division in Adobe PDF file format.
2. Equipment Listings in Microsoft Excel (.xlsx) file type.
M. Arrangement of Contents: Organize each volume for either hard copies or electronic files in parts as follows:
1. Project Directory.
2. Table of Contents, of all volumes, and of this volume.
3. Operation and Maintenance Data: Arranged by system, then by product category.
a. Source data.
b. Product data, shop drawings, and other submittals.
c. Operation and maintenance data.
d. Field quality control data.
e. Photocopies of warranties and bonds.
4. Design Data: To allow for addition of design data furnished by Architect or others, provide a tab labeled "Design Data" and provide a binder large enough to allow for insertion of additional electronic data, if applicable.

3.06 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
1. Photocopies of warranties and bonds. Include digital scans of warranties and bonds as well.
2. Electronic copies of warranties and bonds.
3. Warranties must clearly state that warranty commences on Date of Substantial Completion, and the actual Date of Substantial Completion according to the Contract must be clearly stated on the warranty form.
B. Verify that documents are in proper form, contain full information, and are notarized.
C. Co-execute submittals when required.
D. Retain warranties and bonds until time specified for submittal.
E. Manual: Bind in commercial quality 8-1/2 by 11 inch three D side ring binders with durable plastic covers.
F. Cover: Identify each binder with typed or printed title WARRANTIES AND BONDS, with title of Project; name, address and telephone number of Contractor and equipment supplier; and name of responsible company principal.
G. Electronic Cover Page: Identify each file with first page titled WARRANTIES AND BONDS; identify title of Project; identify subject matter of contents.
H. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item.
I. Electronic Table of Contents: Include electronic Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item.
J. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List Subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
K. Electronic Bookmarking: Provide electronically bookmarked divider pages in each file for each separate warranty or bond. Include subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.

END OF SECTION

SECTION 01 7900
DEMONSTRATION AND TRAINING

PART 1 GENERAL

1.01 SUMMARY

A. Demonstration of products and systems where indicated in specific specification sections.
B. Training of Owner personnel in operation and maintenance is required for:
1. All software-operated systems.
2. HVAC systems and equipment.
3. Plumbing equipment.
4. Electrical systems and equipment.
C. Training of Owner personnel in care, cleaning, maintenance, and repair is required for:
1. Finishes, including flooring, wall finishes, ceiling finishes.
2. Fixtures and fittings.
3. Items specified in individual product Sections.

1.02 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Training Plan: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees.
1. Submit to Architect for transmittal to Owner.
2. Submit not less than four weeks prior to start of training.
3. Revise and resubmit until acceptable.
4. Provide an overall schedule showing all training sessions.
5. Include at least the following for each training session:
a. Identification, date, time, and duration.
b. Description of products and/or systems to be covered.
c. Name of firm and person conducting training; include qualifications.
d. Intended audience, such as job description.
e. Objectives of training and suggested methods of ensuring adequate training.
f. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc.
g. Media to be used, such a slides, hand-outs, etc.
h. Training equipment required, such as projector, projection screen, etc., to be provided by Contractor.
C. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session.
1. Include applicable portion of O&M manuals.
2. Include copies of all hand-outs, slides, overheads, video presentations, etc., that are not included in O&M manuals.
3. Provide hard copy and electronic copy of each training manual to be included with operation and maintenance data.
D. Training Reports:
1. Identification of each training session, date, time, and duration.
2. Sign-in sheet showing names and job titles of attendees.
3. List of attendee questions and written answers given, including copies of and references to supporting documentation required for clarification; include answers to questions that could not be answered in original training session.
E. Video Recordings: Submit digital video recording of each demonstration and training session for Owner's subsequent use.
1. Format: Thumb drive, USB flash.
2. Label each device with session identification and date.

1.03 QUALITY ASSURANCE

A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.
1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.
2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 DEMONSTRATION - GENERAL

A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.
B. Demonstration may be combined with Owner personnel training if applicable.
C. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shutdown, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance.
1. Perform demonstrations not less than two weeks prior to Substantial Completion.
2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
D. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
1. Perform demonstrations not less than two weeks prior to Substantial Completion.

3.02 TRAINING - GENERAL

A. Conduct training on-site unless otherwise indicated.
B. Owner will provide classroom and seating at no cost to Contractor.
C. Provide training in minimum two hour segments.
D. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge Contractor for personnel "show-up" time.
E. Review of Facility Policy on Operation and Maintenance Data: During training discuss:
1. The location of the O&M manuals and procedures for use and preservation; backup copies.
2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific information.
3. Typical uses of the O&M manuals.
F. Product- and System-Specific Training:
1. Review the applicable O&M manuals.
2. For systems, provide an overview of system operation, design parameters and constraints, and operational strategies.
3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance.
4. Provide hands-on training on all operational modes possible and preventive maintenance.
5. Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures.
6. Discuss common troubleshooting problems and solutions.
7. Discuss any peculiarities of equipment installation or operation.
8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage.
9. Review recommended tools and spare parts inventory suggestions of manufacturers.
10. Review spare parts and tools required to be furnished by Contractor.
11. Review spare parts suppliers and sources and procurement procedures.
G. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response within three days.

3.03 BUILDING WALK-THROUGH

A. Prior to final completion, conduct building walk-through for a minimum of one hour with both the Owner 's building/facility manager and the occupants of the building.

END OF SECTION

DIVISION 03 - CONCRETE
SECTION 03 0100

MAINTENANCE OF CONCRETE
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Cleaning of existing concrete surfaces.
B. Resurfacing of concrete surfaces having spalled areas and other damage.
C. Scope of Work: As indicated on Drawings.

1.02 REFERENCE STANDARDS

A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens); 2024.
B. ASTM C348 - Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars; 2021.
C. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair; 2013.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Product Data: Indicate product standards, physical and chemical characteristics, technical specifications, limitations, maintenance instructions, and general recommendations regarding each material.

1.04 MOCK-UPS

A. Test each type of maintenance procedure required on each type of existing construction, to determine the most appropriate procedures to use and as a record of expected results.
B. Where color or texture matching is required, first prepare a small size sample on cementitious board.
C. Locate mock-up(s) where directed.
D. Re-work mock-up(s) until satisfactory to Architect.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Comply with manufacturers' instructions for storage, shelf life limitations, and handling of products.
B. Store materials in covered, well-ventilated area and according to manufacturer's written storage instructions. Store polymer resins and hardeners separate from construction materials that can absorb odors.

PART 2 PRODUCTS

2.01 CLEANING MATERIALS

A. Degreaser:
1. Manufacturers:
a. LATICRETE International, Inc; CITREX: www.laticrete.com/#sle.
b. Nox-Crete, Inc; Bio-Clean Plus: www.nox-crete.com/#sle.
c. SpecChem, LLC; Orange Peel-Citrus Cleaner: www.specchemllc.com/#sle.
d. Substitutions: See Section 01 6000 - Product Requirements.
B. Detergent: Non-ionic detergent.

2.02 CEMENTITIOUS PATCHING AND REPAIR MATERIALS

A. Interior Self-Leveling Concrete Topping: Hydraulic cement-based, self-leveling suitable as wear surface topping in interior locations as well as underlayment for applied materials.
1. Compressive Strength: 5,000 pounds per square inch, minimum, at 28 days, when tested in accordance with ASTM C109/C109M, air cured.
2. Set Time: Initial set, 2 hours at 70 degrees F, per ASTM C191.
3. Flexural Strength: 1,150 pounds per square inch, minimum, at 7 days, when tested in accordance with ASTM C348.
4. Primers: As recommended by concrete leveler manufacturer.
5. Manufacturers:
a. Basis of Design: CTS Cement, Concrete Leveler- Rapid Set: www.ctscement.com.
b. Substitutions: See Section 01 6000 - Product Requirements.

2.03 ACCESSORIES

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are ready to receive work.
B. Beginning of installation means acceptance of substrate.

3.02 PREPARATION

A. Prepare concrete surfaces to be repaired according to manufacturer's recommendations.

3.03 CLEANING EXISTING CONCRETE

A. Provide enclosures, barricades, and other temporary construction as required to protect adjacent work from damage.
B. Clean concrete surfaces of dirt or other contamination using the gentlest method that is effective.
1. Try the gentlest method first, then, if not clean enough, use a less gentle method taking care to watch for impending damage.
2. Clean out cracks and voids using same methods.
C. The following are acceptable cleaning methods, in order from gentlest to less gentle:
1. Water washing using low-pressure, maximum of 100 psi, and, if necessary, brushes with natural or synthetic bristles.
2. Increasing the water washing pressure to maximum of 400 psi.
3. Adding detergent to washing water; with final water rinse to remove residual detergent.
4. Steam-generated low-pressure hot-water washing.

3.04 CONCRETE SURFACE REPAIR USING CEMENTITIOUS MATERIALS

A. Clean concrete surfaces, cracks, and joints of dirt, laitance, corrosion, and other contamination using method(s) specified above and allow to dry.
B. Apply primer following manufacturer's recommendations.
C. Apply coating of bonding agent to entire concrete surface to be repaired.
D. Fill voids with cementitious mortar flush with surface.
E. Apply repair mortar by steel trowel to a minimum thickness of 1/4 inch over entire surface, terminating at a vertical change in plane on all sides.
F. Trowel finish to match adjacent concrete surfaces.

3.05 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements for additional requirements.

END OF SECTION

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES
SECTION 06 1000

ROUGH CARPENTRY
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Rough opening framing for doors, windows, and roof openings.
B. Concealed wood blocking, nailers, and supports.

1.02 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
B. PS 20 - American Softwood Lumber Standard; 2025.
C. WWPA G-5 - Western Lumber Grading Rules; 2025.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
1.04 DELIVERY, STORAGE, AND HANDLING
A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

1.05 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
3. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than products specified.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Grading Agency: Western Wood Products Association; WWPA G-5.
B. Sizes: Nominal sizes as indicated on drawings, S4S.
C. Moisture Content: S-dry or MC19.
D. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

2.03 ACCESSORIES

A. Metal and Finish of Fasteners:
1. Untreated Wood: Unfinished steel.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.
B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

3.02 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to authorities having jurisdiction may be used in lieu of solid wood blocking.
C. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud framing.
D. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
E. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
F. Provide nonstructural framing and blocking to support the following:
1. Cabinets and shelf supports.
2. Wall brackets.
3. Handrails.
4. Grab bars.
5. Wall-mounted door stops.
6. Marker boards.
7. Wall paneling and trim.
8. Joints of rigid wall coverings that occur between studs.
9. Other wall- or ceiling-mounted items indicated on drawings.
10. Other locations as detailed on Drawings.

3.03 TOLERANCES

A. Framing Members: 1/4 inch from true position, maximum.
B. Variation from Plane, Other than Floors: 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

3.04 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements for additional requirements.

3.05 CLEANING

A. Waste Disposal:
1. Comply with applicable regulations.
2. Do not burn scrap on project site.
3. Do not burn scraps that have been pressure treated.
4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities.
B. Do not leave any wood, shavings, sawdust, or similar waste on the ground or buried in fill.
C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

DIVISION 07 - THERMAL AND MOISTURE PROTECTION
SECTION 07 0553

FIRE AND SMOKE ASSEMBLY IDENTIFICATION
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Identification markings for fire and smoke rated partitions, and fire rated walls.

1.02 REFERENCE STANDARDS

A. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's printed product literature for each type of marking, indicating font, foreground and background colors, wording, and overall dimensions.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.05 FIELD CONDITIONS

A. Do not install adhered markings when ambient temperature is lower than recommended by label or sign manufacturer.
B. Do not install painted markings when ambient temperature is lower than recommended by coating manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Partition Identification Labels:
1. Fire Wall Signs, Inc: www.firewallsigns.com/#sle.
2. Safety Supply Warehouse, Inc: www.safetysupplywarehouse.com/#sle.
3. Substitutions: See Section 01 6000 - Product Requirements.

2.02 FIRE AND SMOKE ASSEMBLY IDENTIFICATION

A. Regulatory Requirements: Comply with "Marking and Identification" requirements of "FireResistance Ratings and Fire Tests" chapter of ICC (IBC).
B. Applied Fire and Smoke Assembly Identification: Identification markings applied to partition with paint and a code compliant stencil. See Section 09 9123 for products.
C. Languages: Provide sign markings in English.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

3.02 PREPARATION

A. See Section 09 9123 for substrate preparation for painted markings.

3.03 INSTALLATION

A. Locate markings as required by ICC (IBC).
B. Install applied markings in accordance with Section 09 9123.
C. Install neatly, with horizontal edges level.
D. Protect from damage until Date of Substantial Completion; repair or replace damaged markings.

END OF SECTION

SECTION 07 8400
FIRESTOPPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Firestopping systems, materials, and accessories.
B. Perimeter fire/smoke barriers.
C. Firestopping of joints and penetrations in fire-resistance-rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated.
D. Contractor's responsibility for determining required scope of firestopping system work, and for determining applicable tested/listed systems for the entire project, and for securing jurisdictional authority approval of firestopping systems.

1.02 DEFINITIONS

A. Firestopping: A material or combination of materials used to retain the integrity of fire- and smokerated construction by maintaining an effective barrier against the spread of flame, and to impede the passage of smoke, gases, and moisture through penetrations, blank openings, construction joints, and perimeter fire/smoke containment in or adjacent to fire-and smoke-rated wall, floor, ceiling, and other rated construction assemblies.
B. Assembly: Particular arrangement of materials specific to type of construction described or detailed in referenced UL or other approved design.
C. Barrier: Time-rated fire walls, smoke barrier walls, time-rated floor/ceiling assemblies, and structural floors.
D. Penetration: Opening or foreign material passing through or into barrier or structural floor such that full thickness of rated materials is interrupted.
E. Membrane Penetration: An opening made through one side of an assembly without passing completely through the assembly.
F. Construction Gaps: Gaps between adjacent sections of walls, exterior walls, top of wall and ceiling, structural floors or roof decks, and adjacent sections of structural floors.
G. System: Specific products and applications, classified and numbered by UL or other approved testing agency to close specific barrier penetrations.
H. Sleeve: Metal fabrication or pipe section extending through thickness of barrier used to permanently guard penetration.
I. VOC: Volatile organic compound(s).

1.03 REFERENCE STANDARDS

A. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2024.
B. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2024.
C. ASTM E605/E605M - Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members; 2019 (Reapproved 2023).
D. ASTM E736/E736M - Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members; 2019 (Reapproved 2023).
E. ASTM E1399 / E1399M - Standard Test Method for Cyclic Movement and Measuring the Minimum and Maximum Joint Widths of Architectural Joint; 2017.
F. ASTM E814 - Standard Test Method for Fire Tests of Penetration Firestop Systems; 2023a.
G. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.
H. ASTM E1966 - Standard Test Method for Fire-Resistive Joint Systems; 2024.
I. ASTM E2174 - Standard Practice for On-Site Inspection of Installed Firestop Systems; 2024.
J. ASTM E2393 - Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers; 2024.
K. ASTM E2307 - Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-Story Test Apparatus; 2025.
L. ASTM E2837 - Standard Test Method for Determining the Fire Resistance of Continuity Head-of-Wall Joint Systems Installed between Rated Wall Assemblies and Nonrated Horizontal Assemblies; 2023a, with Editorial Revision (2024).
M. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi; 2015, with Editorial Revision (2021).
N. ITS (DIR) - Directory of Listed Products; Current Edition.
O. NFPA 96 - Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations; 2024.
P. FM (AG) - FM Approval Guide; Current Edition.
Q. SCAQMD 1168 - Adhesive and Sealant Applications; 1989, with Amendment (2022).
R. UL 1479 - Standard for Fire Tests of Penetration Firestops; Current Edition, Including All Revisions.
S. UL 2079 - Standard for Tests for Fire Resistance of Building Joint Systems; Current Edition, Including All Revisions.
T. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.
U. UL (DIR) - Online Certifications Directory; Current Edition.
V. UL (FRD) - Fire Resistance Directory; Current Edition.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate installation of firestopping systems with affected trades and adjacent work.
B. Preinstallation Meeting: Convene one week before starting work of this Section. Notify Owner, who may request attendance by an independent consultant.
1. Convene under general provisions of Section 01 7000 - Execution and Closeout Requirements.
2. Require attendance of parties directly concerned with the work of this Section, including those who are required to coordinate with the work, and those who are required to protect the work upon completion. Include the manufacturer's technical representative.
3. Review installation procedures and coordination required with related work, and conditions which could affect successful performance of the work.
C. Sequencing: Sequence work to permit firestopping materials to be installed after adjacent and surrounding work is complete.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Jurisdictional Authority Submittal: Prior to submission to Architect, submit to jurisdictional authority and local fire department complete product data indicating proposed product characteristics, performance characteristics, limitation criteria, and documentation of proposed firestop materials and systems for actual project conditions.
1. Include manufacturer's complete installation instructions and UL Design or other approved testing agency data sheets for each proposed firestop system.
2. Include complete test data forms or jurisdictional acceptance for proposed assemblies not conforming to specific UL Design numbers or other approved testing agency system designs.
3. Submit certificate from authority having jurisdiction indicating approval of materials and systems to be used, with one complete copy, for information only, of the approved jurisdictional authority submittal.
4. If the jurisdictional authority does not require a submission, submit this same package to Architect.
C. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.
D. Manufacturer's engineering judgment identification number and drawing details when no qualified tested system is available for an application. Engineering judgment must include both project name and contractor's name who will install firestop system as described in document.
E. Product Data: Provide data on product characteristics, performance ratings, and limitations.
F. Sustainable Design Submittal: Submit VOC content documentation for non-preformed materials.
G. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
H. Manufacturer's qualification statement.
I. Installer's qualification statement. The work to be installed by a contractor with at least one of the following calfications:
1. FM 4991 Approved Contractor
2. UL Approved Contractor
3. Manufacturer's Accredited Fire Stop Specialty Contractor.

1.06 QUALITY ASSURANCE

A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
1. Listing in the current-year classification or certification books of UL (FRD), FM (AG), or ITS (DIR) will be considered as constituting an acceptable test report.
2. Valid evaluation report published by ICC Evaluation Service, Inc. (ICC-ES) at www.icc-es.org will be considered as constituting an acceptable test report.
3. Submission of actual test reports is required for assemblies for which none of the above substantiation exists.
B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
C. Installer Qualifications: Company specializing in performing the work of this section and:
1. Verification of minimum three years documented experience installing work of this type.
D. Obtain firestop systems for each type and condition of penetration from a single manufacturer; intermixing of system components for each type and condition of penetration by different manufacturers is not permitted.
E. Firestop Systems do not reestablish the structural integrity of load bearing partitions/assemblies, or support live loads and traffic. Installer shall consult the structural engineer prior to penetrating any load bearing assembly.
F. Perform all firestopping work by a single qualified firm or subcontractor.

1.07 REGULATORY REQUIREMENTS

A. Comply with execution requirements of authority having jurisdiction including, if applicable, the requirement that all firestopping work be performed by a single qualified firm or subcontractor.

1.08 MOCK-UPS

A. See Section 01 4000 - Quality Requirements for additional requirements.
B. Install one firestopping assembly representative of each fire rating design required on project.
1. Where one design may be used for different penetrating items or in different wall constructions, install one assembly for each different combination.
C. If accepted, mock-up will represent minimum standard for this work.
D. If accepted, mock-up may remain as part of this work. Remove and replace mock-ups not accepted.

1.09 DELIVERY, STORAGE, AND PROTECTION

A. Deliver materials in original unopened containers identified with manufacturer's brand designation and applicable UL label.
B. Coordinate delivery of materials with scheduled installation date to allow minimum storage time at job-site.
C. Store materials under cover and protect from weather and damage in compliance with manufacturer's requirements, including temperature restrictions.
D. Do not use damaged or expired materials.

1.10 FIELD CONDITIONS

A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation; maintain minimum temperature before, during, and for three days after installation of materials.
B. Provide ventilation in areas where solvent-cured materials are being installed.

1.11 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
B. Include agreement to repair or replace joint sealers which fail in joint adhesion, extrusion resistance, migration resistance, general durability, or apparent deterioration beyond manufacturer's printed limitations for stipulated warranty period from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Firestopping Manufacturers: Subject to compliance with firestop systems listed in UL Fire Resistance Directory.
1. 3M Fire Protection Products: www.3m.com/firestop/#sle.
2. A/D Fire Protection Systems Inc: www.adfire.com/#sle.
3. Hilti, Inc: www.us.hilti.com/#sle.
4. Nelson FireStop Products: www.nelsonfirestop.com/#sle.
5. Specified Technologies Inc: www.stifirestop.com/#sle.

MOA ARCHITECTURE
WYOMING | COLORADO
259 S. CENTER STREET, SUITE 206
CASPER, WYOMING 82601
307.268.9890
moaarch.com

CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DARLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Draw

6. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
7. Substitutions: See Section 01 6000 - Product Requirements.

2.02 MATERIALS

A. Firestopping Materials: Any materials meeting requirements.
B. Volatile Organic Compound (VOC) Content: Provide products having VOC content lower than that required by SCAQMD 1168.
C. Mold and Mildew Resistance: Provide firestopping materials with mold and mildew resistance rating of zero(0) in accordance with ASTM G21.
D. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Provide type of materials as required for tested firestopping assembly.
E. Fire Ratings: Refer to drawings for required systems and ratings.
F. Comply with ASTM E814, UL 1479, and UL 2079 as applicable to achieve indicated fire ratings.

2.03 FIRESTOPPING - GENERAL REQUIREMENTS

A. General: Use firestopping systems which are acceptable for those applications for which they are specifically designed. Use of other UL listed systems is Contractor's Option, subject to compliance with specified performance, regulatory, and quality assurance requirements.
1. Where there is no specific tested and classified firestop system for an indicated condition, obtain from the firestopping system manufacturer an Engineering Judgement (EJ) or Equivalent Fire Resistance Rated Assembly (EFRRA) according to IFC and FCIA.

B. General Characteristics:
1. Surface Burning: ASTM E84 and UL 723; flame spread less than 25, smoke developed less than 450.
2. Air Leakage of Perimeter Firestopping Barriers and Penetrations: UL 2079; L-rating less than 2.0 cfm/sf or 5.0 cfm/lf as applicable to the type and location of joint.
3. Durability and Longevity: Permanent.
4. Side Effects During Installation: Non-toxic.
5. Side Effects Under Fire Exposure: Non-toxic.
6. Long Term Side Effects: None.

C. Scope: Install firestopping at all locations requiring protected openings where piping, conduit, cables, sleeves, ductwork and similar items penetrate fire-resistive, fire-rated, and smoke assemblies.
1. Penetrations through wall, floor, and roof assemblies, including empty openings and openings containing penetrations.
2. Membrane penetrations where items penetrate one side of the barrier assembly.
3. Joints between rated assemblies to allow independent movement.
4. Perimeter barriers between exterior wall assemblies and floor and roof assemblies.
5. Joints, through-penetrations, and membrane penetrations in smoke-rated assemblies.

D. Perimeter Fire Containment Firestopping: Use system that has been tested according to ASTM E2307 to have fire resistance F Rating equal to required fire rating of floor assembly.
1. Movement: Provide systems that have been tested to show movement capability as indicated.
2. Temperature Rise: Provide systems that have been tested to show T Rating as indicated.
3. Air Leakage: Provide systems that have been tested to show L Rating as indicated.
4. Where floor assembly is not required to have a fire rating, provide systems that have been tested to show L Rating as indicated.

E. Head-of-Wall (HW) Joint System Firestopping at Joints Between Fire-Rated Wall Assemblies and Non-Rated Horizontal Assemblies: Use system that has been tested according to ASTM E2837 to have fire resistance F Rating equal to required fire rating of wall assembly.
1. Movement: Provide systems that have been tested to show movement capability as indicated.

F. Floor-to-Floor (FF), Floor-to-Wall (FW), Head-of-Wall (HW), and Wall-to-Wall (WW) Joints, Except Perimeter, Where Both Are Fire-Rated: Use system that has been tested according to ASTM E1966 or UL 2079 to have fire resistance F Rating equal to required fire rating of the assembly in which the joint occurs.
1. Movement: Provide systems that have been tested to show movement capability as indicated.
2. Air Leakage: Provide systems that have been tested to show L Rating as indicated.
3. Watertightness: Provide systems that have been tested to show W Rating as indicated.
4. Listing by FM (AG), ITS (DIR), UL (DIR), or UL (FRD) in their certification directories will be considered evidence of successful testing.

G. Through Penetration Firestopping: Use system that has been tested according to ASTM E814 to have fire resistance F Rating equal to required fire rating of penetrated assembly.
1. Temperature Rise: Provide systems that have been tested to show T Rating as indicated.
2. Air Leakage: Provide systems that have been tested to show L Rating as indicated.
3. Watertightness: Provide systems that have been tested to show W Rating as indicated.
4. Listing by FM (AG), ITS (DIR), UL (DIR), or UL (FRD) in their certification directories will be considered evidence of successful testing.

H. Fire Rated Joint Systems: Integrity and indicated fire-resistance ratings as determined by UL 2079, ASTM E1399 / E1399M or ASTM E1966.

I. Fire Rated Construction: Maintain barrier and structural floor fire resistance ratings including resistance to cold smoke at all penetrations, connections with other surfaces and types of construction, at separations required to permit building movement and sound or vibration absorption, and at other construction gaps.

J. Smoke Barrier Construction: Maintain barrier and structural floor resistance to cold smoke at all penetrations, connections with other surfaces and types of construction, at separations required to permit building movement and sound or vibration absorption, and at other construction gaps

2.04 MATERIALS

A. General: Comply with volatile organic compound (VOC) product requirements specified in Section 01 6116.
B. Putty Compound: 100 percent solids intumescent or vinyl-type formulation, free of asbestos, silicones, solvents, halogens, PCB's, and inorganic fibers; flame spread/smoke developed rating 0/0 when tested in accordance with ASTM E84; paintable, not sensitive to freezing after set.
C. Sealant Compound: One-part intumescent, endothermic, ablative, or elastomeric acrylic water-based calking material required by applicable UL Design; flame spread/smoke developed rating 0/0 when tested in accordance with ASTM E84.
D. Spray-Applied Compound: Water-based, flexible coating which drys to form a flexible seal; tested in accordance with ASTM E736/E736M and ASTM E605/E605M, complying with wind sway and thermal category.
E. Foam Compound: Two-part, liquid-silicone elastomer formulated to foam in place when mixed; flame spread/smoke developed rating 0/0 when tested in accordance with ASTM E84.
F. Plastic Pipe Device: Intumescent strip material, factory or site fabricated in flexible metal collar with adjustable, screw-tightened stainless steel clamp; UL classified for use with PVC, CPVC, CCPVC, CCABS, PVDF, PP, PB, and FRPP plastic pipe.
G. Composite Sheet: Composite, intumescent sheet, designed for firestopping large openings in conjunction with other firestopping components, capable of being cut to size in the field and fabricated to fit required penetration openings.
H. Blanket Material: Refractory ceramic fiber blanket encapsulated with aluminum foil scrim complying with NFPA 96; widths and thicknesses required by applicable UL Design; specifically designed as a flexible, fireproof enclosure for kitchen exhaust ducts and fire-rated air ductwork.
I. Fire-Safing Insulation: ASTM C665, Type I; high-melt mineral fibers and resinous binders formed into blankets, density not less than 4.0 lbs/cu ft, tested for 3-hour fire containment for required depths and dimensions.
J. Firestopping Pads: Intumescent, dielectric fire putty formed to 7 x 7 or 9.5 x 9.5 inch self-adhering pads, 2-hour fire rating listed by UL.
K. Metallic insulated or Uninsulated pipe and conduit penetrations and cable tray penetrations, listed by UL for each fire rating condition.

2.05 ACCESSORIES

A. Provide necessary accessory materials specified in UL Design to achieve complete firestop system at each penetration. Include collars, sleeves, attachment devices, intumescent materials, and other items required.
B. Primers, Sleeves, Forms, and Accessories: Type required for tested assembly design, and as recommended by firestopping manufacturer for specific substrate surfaces.
C. Dam Material: Mineral fiberboard, mineral fiber matting, sheet metal, alumina silicate fire board, or other permanent material required as part of the firestopping system, or removable if not specifically required as part of the firestopping system.
D. Retainers: Impale type clips to support mineral fiber safing blankets.

2.06 FIRESTOPPING SYSTEMS

A. Firestopping: Any material meeting requirements.
1. Fire Ratings: Use system that is listed by FM (AG), ITS (DIR), or UL (FRD) and tested in accordance with ASTM E814, ASTM E119, or UL 1479 with F Rating equal to fire rating of penetrated assembly and minimum T Rating Equal to F Rating and in compliance with other specified requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify openings are ready to receive the work of this section.

3.02 PREPARATION

A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.
B. Remove incompatible materials that could adversely affect bond.
C. Install backing or damming materials to prevent liquid material from leakage.

3.03 INSTALLATION - GENERAL

A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
B. Do not cover installed firestopping until inspected by authorities having jurisdiction.
C. Install labeling required by code.
D. Apply firestopping materials in sufficient thicknesses to achieve scheduled fire ratings, to uniform density and texture.
E. Install material at openings which contain penetrating sleeves, piping, ductwork, conduit and other items requiring firestopping.
F. Remove dam material after firestopping material has cured only if dam material is not required as part of the firestopping system; otherwise dam material to remain permanently in place.

3.04 INSTALLATION - FIRE SAFING PADS

A. Install firestopping pads on back side of electrical junction boxes in fire-rated walls where boxes are located in same stud space on opposite sides of same wall, and elsewhere required by jurisdictional authority and local fire department.

3.05 THROUGH-PENETRATION FIRESTOPPING IDENTIFICATION

A. Identify firestopping systems with pre-printed metal or plastic labels. Attach label permanently to surfaces immediately adjacent to and within 6 inches of edge of firestop installation so that label will be visible to anyone seeking to remove penetrating items or firestop system.

1. Metal Labels: Use mechanical fasteners.
2. Plastic Labels: Use self-adhering type with adhesive capable of permanently bonding lebel to substrate and, in combination with label material, will result in partial destruction of label if removal is attempted.

B. Include following information on each label:
1. The words "Warning - Through-Penetration Firestop System - Do Not Disturb. Notify Building Management of Any Damage."
2. Installing contractor's name, address, and phone number.
3. Firestop system designation, including applicable testing and inspection agency.
4. Date of installation.
5. Firestop system manufacturer's name.
6. Installer's name.

3.06 FIELD QUALITY CONTROL

A. Independent Testing Agency: Inspection agency employed and paid by Owner, may examine penetration firestopping in accordance with ASTM E2174, Standard Practice for On-Site Inspection of Installed Fire Stops and ASTM E2393. "Standard Practice for On-Site Inspection of Installed Fire Stop Joint Systems.
B. Repair or replace penetration firestopping and joints at locations where inspection results indicate firestopping or joints do not meet specified requirements.

3.07 CLEANING

A. Clean adjacent surfaces of firestopping materials.

3.08 PROTECTION

A. Protect adjacent surfaces from damage by material installation.

END OF SECTION

SECTION 07 9200
JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Joint backings and accessories.

1.02 DEFINITIONS

1.03 REFERENCE STANDARDS

A. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer; 2015 (Reapproved 2022).
B. ASTM C834 - Standard Specification for Latex Sealants; 2017 (Reapproved 2023).
C. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2024.
D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).
E. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2025.
F. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants; 2022.
G. ASTM C1311 - Standard Specification for Solvent Release Sealants; 2022.
H. ASTM C1330 - Standard Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants; 2023.
I. ASTM C1521 - Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints; 2019 (Reapproved 2020).
J. ASTM C1742-16 - Standard Guide For Calculating Movement and Other Effects When Establishing Seal Joint Width; 2022.
K. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2024.
L. SWRI (VAL) - SWR Institute Validated Products Directory; Current Edition.
M. UL 263 - Standard for Fire Tests of Building Construction and Materials; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Coordinate sealant work with other work requiring sealants, and with other Sections referencing this Section; do not obstruct indicated or required moisture weepage systems under any circumstances.
2. Coordinate sealant surface preparation of exterior joint sealants scheduled for paint finish with Section 09 9113. Provide advice and recommendations on compatibility of specified preparation procedures with sealants used.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
2. List of backing materials approved for use with the specific product.
3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
4. Substrates the product should not be used on.
5. Substrates for which use of primer is required.
6. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
7. SWRI Validation: Provide currently available sealant product validations as listed by SWRI (VAL) for specified sealants.

C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.
E. Samples for Verification: Where custom sealant color is specified, obtain directions from Architect and submit at least two physical samples for verification of color of each required sealant.
F. Installation Plan: Submit at least four weeks prior to start of installation.
G. Preinstallation Field Adhesion Test Plan: Submit at least two weeks prior to start of installation.
H. Field Quality Control Plan: Submit at least two weeks prior to start of installation.
I. Preinstallation Field Adhesion Test Reports: Submit filled out Preinstallation Field Adhesion Test Reports log within 10 days after completion of tests; include bagged test samples and photographic records.
J. Installation Log: Submit filled-out log for each length or instance of sealant installed.
K. Field Quality Control Log: Submit filled-out log for each length or instance of sealant installed, within 10 days after completion of inspections/tests; include bagged test samples and photographic records, if any.
L. Executed warranty.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.
C. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.
D. Installation Plan: Include schedule of sealed joints, including the following:
1. Joint width indicated in Contract Documents.
2. Joint depth indicated in Contract Documents; to face of backing material at centerline of joint.
3. Method to be used to protect adjacent surfaces from sealant droppings and smears, with acknowledgment that some surfaces cannot be cleaned to like-new condition and therefore prevention is imperative.
4. Installation Log Form: Include the following data fields, with known information filled out.
a. Sealant used.
b. Date of installation.
c. Name of installer.
d. Actual joint width; provide space to indicate maximum and minimum width.
e. Actual joint depth to face of backing material at centerline of joint.
f. Air temperature.

E. Preinstallation Field Adhesion Test Plan: Include destructive field adhesion testing of one sample of each combination of sealant type and substrate, except interior acrylic latex sealants, and include the following for each tested sample.
1. Identification of testing agency.
2. Preinstallation Field Adhesion Test Log Form: Include the following data fields, with known information filled out.
a. Substrate; if more than one type of substrate is involved in a single joint, provide two entries on form, for testing each sealant substrate side separately.
b. Test date.
c. Copy of test method documents.
d. Age of sealant upon date of testing.
e. Test results, modeled after the sample form in the test method document.
f. Indicate use of photographic record of test.

F. Field Quality Control Plan:
1. Visual inspection of entire length of sealant joints.
2. Destructive field adhesion testing of sealant joints, except interior acrylic latex sealant.
a. For each different sealant and substrate combination, allow for one test every 100 feet in the first 1,000 linear feet, and one test per 1,000 linear feet thereafter, or once per floor on each elevation.
b. If any failures occur in the first 1,000 linear feet, continue testing at frequency of one test per 500 linear feet at no extra cost to Owner.
3. Field testing agency's qualifications.
4. Field Quality Control Log Form: Show same data fields as on Preinstallation Field Adhesion Test Log, with known information filled out and lines for multiple tests per sealant/substrate combinations; include visual inspection and specified field testing; allow for possibility that more tests than minimum specified may be necessary.

G. Field Adhesion Test Procedures:
1. Allow sealants to fully cure as recommended by manufacturer before testing.
2. Have a copy of the test method document available during tests.
3. Record the type of failure that occurred, other information required by test method, and the information required on the Field Quality Control Log.
4. When performing destructive tests, also inspect the opened joint for proper installation characteristics recommended by manufacturer, and report any deficiencies.
5. Deliver the samples removed during destructive tests in separate sealed plastic bags, identified with project, location, test date, and test results, to Owner.
6. If any combination of sealant type and substrate does not show evidence of minimum adhesion or shows cohesion failure before minimum adhesion, report results to Architect.

H. Destructive Field Adhesion Test: Test for adhesion in accordance with ASTM C1521, using Destructive Tail Procedure.
1. Sample: At least 18 inches long.
2. Minimum Elongation Without Adhesive Failure: Consider the tail at rest, not under any elongation stress; multiply the stated movement capability of the sealant in percent by two; then multiply 1 inch by that percentage; if adhesion failure occurs before the 1-inch mark is that distance from the substrate, the test has failed.
3. If other adhesive or cohesive failure occurs before minimum elongation, take necessary measures to correct conditions and retest; record each modification to products or installation procedures.
4. Repair failed portions of joints.

I. Field Adhesion Tests of Joints: Test for adhesion using most appropriate method in accordance with ASTM C1521, or other applicable method as recommended by manufacturer.
J. System Compatibility: Assume responsibility for confirming that sealants are compatible with each other as as system, and also compatible with substrate surfaces with which they will be in contact, including but not limited to wall and sheathing surfaces, opening materials, other flashings and weather barrier materials.
1. Assure that system components are compatible as specified prior to preparing and making specified submittals.
2. Assume responsibility for removal of incompatible system components and installation of properly compatible components at no additional cost to Owner regardless of when incompatibility is discovered.

1.07 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
B. Manufacturer Warranty: Provide 1-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure abrasion resistant, weather resistant, extrusion resistant, migration resistant, stain resistance, general durability, or which appear to deteriorate in any other manner not clearly specified by submitted manufacturer's data as an inherent quality of the material for the exposure indicated. Complete forms in Owner's name and register with manufacturer.

1.08 FIELD CONDITIONS

A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.
1. Install sealants only when temperature is in lower third of manufacturer's recommended installation temperature range wherever joint width is affected by ambient temperature variations.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in original, unopened containers or bundles with labels indicating manufacturer, product name and designation, expiration period for use, pot life, curing time, and mixing instructions for multi-component materials.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Nonsag Sealants:
1. Adhesives Technology Corporation: www.atcepoxy.com/#sle.
2. Bostik Inc: www.bostik-us.com/#sle.
3. Dow: www.dow.com/#sle.
4. Hilti, Inc: www.us.hilti.com/#sle.
5. Master Builders Solutions: www.master-builders-solutions.com/en-us/#sle.
6. Pecora Corporation: www.pecora.com/#sle.
7. QUIKRETE Companies: www.quikrete.com/#sle.
8. Sika Corporation: www.usa.sika.com/#sle.
9. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
10. W.R. Meadows, Inc: www.wrmeadows.com/#sle.
11. Substitutions: See Section 01 6000 - Product Requirements.

2.02 JOINT SEALANT APPLICATIONS

A. Scope:
1. Exterior Joints:
a. Do not seal exterior joints unless indicated on drawings as sealed.
b. Seal the following joints:
1) Wall expansion and control joints.
2) Joints between doors, windows, and other frames or adjacent construction.
3) Joints between different exposed materials.
2. Interior Joints:
a. Do not seal interior joints indicated on drawings as not sealed.
b. Do not seal gaps and openings in gypsum board and suspended ceilings
c. Do not seal through-penetrations in sound-rated assemblies that are also fire-rated assemblies.
d. Seal the following joints:
1) Joints between door frames and window frames and adjacent construction.
2) In sound-rated wall and ceiling assemblies, gaps at electrical outlets, wiring devices, and piping penetrations.
3) In sound-rated wall and ceiling assemblies, seal joints between wall assemblies and ceiling assemblies; between wall assemblies and other construction; between ceiling assemblies and other construction.
3. Do Not Seal:
a. Intentional weep holes in masonry.
b. Joints indicated to be covered with expansion joint cover assemblies.
c. Joints where sealant is specified to be furnished and installed by manufacturer of product to be sealed.
d. Joints where sealant installation is specified in other sections.
e. Joints between suspended ceilings and walls.

B. Exterior Joints: Use non-sag non-staining silicone sealant, unless otherwise indicated.
C. Interior Joints: Use non-sag polyurethane sealant, unless otherwise indicated.
1. In Sound-Rated Assemblies: Acrylic emulsion latex sealant.
2. Sound-Rated Assemblies: Walls and ceilings identified as STC-rated, sound-rated, or acoustical.

2.03 JOINT SEALANTS - GENERAL

A. Sealants and Primers: Provide products with acceptable levels of volatile organic compound (VOC) content; see Section 01 6116.
B. Hardness: As recommended by manufacturer for applications shown.
C. Modulus of Elasticity: Provide lowest available modulus of elasticity for indicated requirements and consistent with exposure to weathering, indentation, abrasion and support of loading.
D. Compatibility: Provide sealants, joint fillers, and related materials that are compatible with one another and with substrates and other materials to which they will be exposed in the joint system.
E. Grade: For each application, provide grade of sealant complying with ASTM C920, and as recommended by manufacturer for indicated conditions, to achieve best possible performance. Types, grades, classes, and uses specified are for normal conditions.
F. Non-Staining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.
2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
3. Hardness Range: 15 to 35, Shore A, when tested in accordance with ASTM C661.
4. Color: To be selected by Architect from manufacturer's standard range.
5. Service Temperature Range: Minus 20 to 180 degrees F.

G. Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 35 percent, minimum.
2. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.
3. Color: To be selected by Architect from manufacturer's standard range.
4. Service Temperature Range: Minus 40 to 180 degrees F.

H. Acrylic Latex Sealant: ASTM C834; for use as acoustical sealant and in firestopping systems for expansion joints and through penetrations.
1. Color: To be selected by Architect from manufacturer's standard range.
2. Fire Rated System: Complies with UL 263 and ASTM E119 with UL fire resistance classifications.
3. Hardness Range: 35 to 55, Shore A, when tested in accordance with ASTM C661.
4. Color: To be selected by Architect from manufacturer's standard range.
5. Service Temperature Range: Minus 40 to 180 degrees F.

2.04 ACCESSORIES

A. Sealant Backing Rod, Bi-Cellular Type:
1. Cylindrical flexible sealant backings complying with ASTM C1330 Type B.
2. Size: 25 to 50 percent larger in diameter than joint width.
3. Products:
a. Adfast USA Inc; Adseal BR-2600 Backer Rod: www.adfastcorp.com/#sle.
b. Nomaco, Inc; SOF Rod: www.nomaco.com/#sle.
c. Substitutions: See Section 01 6000 - Product Requirements.

B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
C. Masking Tape: Self-adhesive, nonabsorbent, nonstaining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.
D. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.
E. Primers: Type recommended by sealant manufacturer to suit application; nonstaining.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that joints are ready to receive work.
B. Verify that backing materials are compatible with sealants.
C. Preinstallation Adhesion Testing: Install a sample for each test location indicated in the test plan.
1. Test each sample as specified in PART 1 under QUALITY ASSURANCE article.
2. Notify Architect of date and time that tests will be performed, at least seven days in advance.
3. Record each test on Preinstallation Adhesion Test Log as indicated.
4. If any sample fails, review products and installation procedures, consult manufacturer, or take other measures that are necessary to ensure adhesion; retest in a different location; if unable to obtain satisfactory adhesion, report to Architect.
5. After completion of tests, remove remaining sample material and prepare joints for new sealant installation.

3.02 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.
B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
B. Provide joint sealant installations complying with ASTM C1193.
C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
1. Provide joints sized for width/depth ratios according to ASTM C1742-16.

D. Install bond breaker backing tape where backer rod cannot be used.
E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
G. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.
H. Multiple backer rods are not permitted; use single backer rod properly sized to joint width.

3.04 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements for additional requirements.
B. Perform field quality control inspection/testing as specified in PART 1 under QUALITY ASSURANCE article.
C. Destructive Adhesion Testing: If there are any failures in first 1,000 linear feet, notify Architect immediately.
D. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation.
E. Repair destructive test location damage immediately after evaluation and recording of results.

3.05 POST-OCCUPANCY

A. Post-Occupancy Inspection: Perform visual inspection of entire length of project sealant joints at a time that joints have opened to their greatest width, i.e., at low temperature in thermal cycle. Report failures immediately and repair them.

END OF SECTION

DIVISION 08 - OPENINGS

SECTION 08 1000
DOOR AND FRAMES
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hollow metal frames for wood doors, aluminum frames for wood doors, interior wood doors, factory finishing wood veneer doors, and installation requirements for doors and frames.

1.02 REFERENCE STANDARDS

A. ICC A117.1 – Accessible and Usable Buildings and Facilities.
B. ADA Standards for Accessible Design.
C. ANSI/SDI A250.8 (SDI-100) – Standard Steel Doors and Frames.
D. BHMA A156.115 – Hardware Preparation in Steel Doors and Frames.
E. NFPA 80 – Standard for Fire Doors and Other Opening Protectives.
F. NFPA 105 – Standard for Smoke Door Assemblies and Other Opening Protectives.
G. NFPA 252 – Standard Methods of Fire Tests of Door Assemblies.
H. AWI/AWMAC/WI Architectural Woodwork Standards (AWS).

1.03 SUBMITTALS

A. Product Data: Manufacturer's data for each door and frame type.
B. Samples:
1. One sample of each door finish, minimum 6 x 6 inches.
2. One sample of each frame finish, minimum 6 inches in length.

C. Shop Drawings: Indicate frame profiles, dimensions, and fire ratings where applicable

1.04 QUALITY ASSURANCE

A. Accessibility: Comply with ICC A117.1 and ADA Standards.
B. Fire-Rated Assemblies: Conform to applicable Building Code and tested in accordance with NFPA 252.
C. Installer Qualifications: Minimum 3 completed projects of similar scope.

PART 2 PRODUCTS

2.01 HOLLOW METAL FRAMES

A. Fabricate in accordance with ANSI/SDI A250.8 (SDI-100), Level 2.
B. Minimum thickness: 16 gage (0.053 inch).
C. Hardware Preparation: In accordance with BHMA A156.115; reinforcement welded in place.
D. Finish:
1. Factory primed for field painting, where scheduled.
2. Factory finished (painted or anodized) as selected from manufacturer's standard colors, where scheduled.

2.02 ALUMINUM FRAMES FOR WOOD DOORS

A. Extruded aluminum hollow or C-shaped sections; no steel components.
B. Frame Style: As indicated on Drawings.
C. Frame Depth: To fit wall thicknesses indicated.Fire-Rated Frames (if applicable): Tested in accordance with NFPA 252 and labeled by UL or WHI.
D. Finish: Match existing, or as selected by Architect.

2.03 INTERIOR WOOD DOORS

A. Thickness: 1-3/4 inches unless otherwise scheduled.
B. Construction: Solid core at all locations unless otherwise scheduled.
C. Face Species: Match existing, or as scheduled on Drawings.Fire-Rated Doors: Labeled in accordance with IBC Positive Pressure testing; UL or WHI.
D. Smoke and Draft Control Doors ("S" on Drawings): In compliance with WDMA I.S.1-A, NFPA 105, and Building Code requirements.

2.04 FACTORY FINISHING

A. Conform to AWI/AWMAC/WI (AWS), Section 5 – Finishing, Grade as specified.
B. Finish Types:
1. Transparent, water-based polyurethane system.
2. Stain: As selected by Architect.
3. Sheen: Satin, unless otherwise noted.

C. Option: Factory primed for field finishing, where scheduled.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and specified standards.
B. Install fire-rated doors in accordance with NFPA 80.
C. Install smoke and draft control doors in accordance with NFPA 105.
D. Set frames plumb, level, and true.
E. Undercut doors to clear adjacent floor finishes by 1/4 inch minimum to 3/4 inch maximum, unless noted otherwise

3.02 ADJUSTING AND CLEANING

A. Adjust doors and hardware to operate smoothly, without binding.
B. Clean exposed surfaces free of adhesives, labels, and protective coatings.
C. Touch up finishes or replace doors and frames damaged during installation.

END OF SECTION

SECTION 08 3100
ACCESS DOORS AND PANELS
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall- and ceiling-mounted access units.

1.02 REFERENCE STANDARDS

A. ITS (DIR) - Directory of Listed Products; Current Edition.
B. UL (FRD) - Fire Resistance Directory; Current Edition.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordinate installation with work of other trades, and obtain information on door sizes and exact locations from other trades.
B. Coordinate placement of rough-in openings with Architect in tiled walls and gypsum board ceilings.
C. Coordinate placement of access doors and panels with locations of toilet partitions and urinal screens so that doors or panels are not placed in conflict with partition or screen locations.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.
C. Manufacturer's Installation Instructions: Indicate installation requirements.
D. Project Record Documents: Record actual locations of each access unit.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

PART 2 PRODUCTS

2.01 ACCESS DOORS AND PANELS ASSEMBLIES

A. Wall-Mounted Units:
1. Panel Material: Stainless steel, Type 304.
2. Size: 12 by 12 inches.
3. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.
4. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
5. Masonry Mounting Criteria: Provide surface-mounted frame with door surface flush with frame surface.

B. Fire-Rated Wall-Mounted Units:
1. Wall Fire-Rating: As indicated on drawings.
2. Panel Material: Steel.
3. Size: 12 by 12 inches.
4. Door/Panel: Insulated double-surface panel, with tool-operated spring or cam lock and no handle.

C. Ceiling-Mounted Units:
1. Panel Material: Stainless steel, Type 304.
2. Size - Lay-In Grid Ceilings: To match module of ceiling grid.
3. Size - Other Ceilings: 12 by 12 inches, unless otherwise indicated or required.

2.02 ACCESS DOORS

A. Manufacturers:
1. Activar Construction Products Group, Inc. - JL Industries: www.activarcpg.com/#sle.
2. ACUDOR Products Inc; FW-5050-ACF: www.acudor.com/#sle.
3. Babcock-Davis: www.babcockdavis.com/#sle.
4. MIFAB, Inc; UA Series: www.mifab.com/#sle.
5. Nystrom, Inc: www.nystrom.com/#sle.
6. Substitutions: See Section 01 6000 - Product Requirements.

B. Access Doors: Factory fabricated door and frame, fully assembled units with corner joints welded, filled and ground flush; square and without rack or warp; coordinate requirements with type of installation assembly being used for each unit.
1. Door Style: Single thickness with rolled or turned in edges.
2. Frames: 16-gauge, 0.0598-inch minimum thickness.
3. Single Steel Sheet Door Panels: 16-gauge, 0.0625-inch minimum thickness.
4. Units in Fire-Rated Assemblies: Fire rating as required by applicable code for fire-rated assembly that access doors are being installed.
a. Provide products listed by ITS (DIR) or UL (FRD) as suitable for purpose indicated.
5. Hardware:
a. Hardware for Fire-Rated Units: As required for listing.
b. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.
c. Latch/Lock: Tamperproof tool-operated cam latch.
d. Gasketing: Extruded neoprene, around perimeter of door panel.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that rough openings are correctly sized and located.
B. Begin installation only after substrates have been properly prepared, and if the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
C. Review access panel locations during wall framing rough-in to confirm location is coordinated with interior wall finishes.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to proceeding with this work.
B. Prepare surfaces using methods recommended by manufacturer for applicable substrates in accordance with project conditions.

3.03 INSTALLATION

A. Install units in accordance with manufacturer's instructions.
B. Install frames plumb and level in openings, and secure units rigidly in place.
C. Position units to provide convenient access to concealed equipment when necessary.
D. Adjust hardware and panels for proper operation.

END OF SECTION

DIVISION 08 - OPENINGS
SECTION 08 7100

DOOR HARDWARE
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Door hardware for interior and exterior doors, including hinges, strikes, silencers, locks, latches, closers, panic hardware, smoke seals, and miscellaneous accessories as required for complete operable openings.

1.02 REFERENCE STANDARDS

A. ADA Standards and ICC A117.1 – Accessibility.
B. NFPA 80 – Fire Doors and Other Opening Protectives.
C. UL 10C – Positive Pressure Fire Tests of Door Assemblies.
D. UL 305 – Panic Hardware.
E. ANSI/BHMA A156 Series – Builders Hardware; Certified Products, Grade 1 or 2 as scheduled.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordinate hardware installation with door, frame, and electrical work.
B. Obtain information on door sizes, locations, and functions from Drawings and Door Schedule.
C. Coordinate placement of hardware with rated assemblies to maintain required ratings.

1.04 SUBMITTALS

A. See Section 01 3000 – Administrative Requirements for submittal procedures.
B. Product Data: Indicate materials, finishes, ratings, functions, and installation details.
C. Door Hardware Schedule: Coordinate with Door and Frame Schedule on Drawings.
D. Manufacturer's Installation Instructions: Indicate requirements for proper operation and adjustment.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum three years documented experience producing specified products.
B. Installer Qualifications: Minimum three years experience installing commercial door hardware.
C. Hardware shall be provided by a single manufacturer for each type to ensure uniformity.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Match existing building standard lever hardware unless otherwise indicated.
B. Acceptable Manufacturers: Match owners building standard.
C. Substitutions: See Section 01 6000 – Product Requirements.

**2.02 DOOR HARD

1.02 REFERENCE STANDARDS
A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens); 2024.
B. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete; 2019.
C. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete; 2019.
D. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters, and Gypsum Concrete; 2020.
E. ASTM D4259 - Standard Practice for Preparation of Concrete by Abrasion Prior to Coating Application; 2024.
F. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022.
G. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2023.
H. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.
I. ASTM F3010 - Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings;2018.
J. ASTM F3513 - Standard Practice for Single Component, Fluid-Applied Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings; 2024.
K. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings; 2018.
1.03 ADMINISTRATIVE REQUIREMENTS
A. Coordinate scheduling of cleaning and testing, so that preliminary cleaning has been completed for at least 24 hours prior to testing.
1.04 SUBMITTALS
A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Visual Observation Report: For existing floor coverings to be removed.
C. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
1. Moisture and alkalinity (pH) limits and test methods.
2. Manufacturer's required bond/compatibility test procedure.
D. Remedial Materials Product Data: Manufacturer's published data on each product to be used for remediation.
1. Certificate: Manufacturer's certification of compatibility with types of flooring applied over remedial product.
2. Test reports indicating compliance with specified performance requirements, performed by nationally recognized independent testing agency.
3. Manufacturer's installation instructions.
4. Specimen Warranty: Copy of warranty to be issued by coating manufacturer and certificate of underwriter's coverage of warranty.
E. Testing Agency's Report:
1. Description of areas tested; include floor plans and photographs if helpful.
2. Summary of conditions encountered.
3. Moisture and alkalinity (pH) test reports.
4. Copies of specified test methods.
5. Recommendations for remediation of unsatisfactory surfaces.
6. Product data for recommended remedial coating.
7. Submit report to Architect.
8. Submit report not more than two business days after conclusion of testing.
F. Adhesive Bond and Compatibility Test Report.
G. Copy of RFCI (RWP).
1.05 QUALITY ASSURANCE
A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.
B. Testing Agency Qualifications: Independent testing agency experienced in the types of testing specified.
1. Submit evidence of experience consisting of at least 3 test reports of the type required, with project Owner's project contact information.
C. Contractor's Responsibility Relating to Independent Agency Testing:
1. Provide access for and cooperate with testing agency.
2. Confirm date of start of testing at least 10 days prior to actual start.
3. Allow at least 4 business days on site for testing agency activities.
4. Achieve and maintain specified ambient conditions.
5. Notify Architect when specified ambient conditions have been achieved and when testing will start.
D. Remedial Coating Installer Qualifications: Company specializing in performing work of the type specified in this section, trained by or employed by coating manufacturer, and able to provide at least 3 project references showing at least 3 years' experience installing moisture emission coatings.
1.06 DELIVERY, STORAGE, AND HANDLING
A. Deliver, store, handle, and protect products in accordance with manufacturer's instructions and recommendations.
B. Deliver materials in manufacturer's packaging; include installation instructions.
C. Keep materials from freezing.
1.07 FIELD CONDITIONS
A. Maintain ambient temperature in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 65 degrees F or more than 85 degrees F.
B. Maintain relative humidity in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 40 percent and not more than 60 percent.
1.08 WARRANTY
A. See Section 01 7800, for additional warranty requirements.
B. Moisture Emission Reducing Sealing Compound: Provide warranty to cost of flooring delamination failures for 10 years, minimum.
1. Include cost of repair or removal of failed flooring, remediation with a moisture vapor impermeable surface coating, and replacement of flooring with comparable flooring system.

PART 2 PRODUCTS
2.01 MATERIALS
A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.
2. Compressive Strength: 3000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.
B. Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.
C. Remedial Floor Coating, Two-Component: Single-layer coating resistant to water vapor transmission meeting flooring manufacturer's emission limits, resistant to alkalinity (pH) level found, and suitable for flooring adhesion without further treatment.
1. Material: Comply with ASTM F3010.
2. Thickness: As required for application and in accordance with manufacturer's installation instructions.
D. Remedial Floor Coating, Single Component: Resistant to water vapor transmission meeting flooring manufacturer's emission limits; single or double layer; resistant to alkalinity (pH) level found, and suitable for flooring adhesion without further treatment.
1. Material: Comply with ASTM F3513.
2. Thickness: As required for application and in accordance with manufacturer's installation instructions.
E. Floor Sealer: Clear, penetrating sealer for application to surfaces of concrete intended by its manufacturer to vapor-proof, seal, harden, dust-proof, and weather-proof concrete slabs by closing capillary system of concrete, and eliminating route of moisture vapor emission allowing application of moisture-sensitive adhesives and coatings.
1. Comply with ASTM C309 and ASTM C1315 Type I Class A or C.
2. VOC Content: Less than 100 g/L.
3. Solids Content: 25 percent, minimum.
4. Acceptable Products:
a. Allied Construction Technologies, Inc.; AC-Tech 2170 FC Vapor Reducing System: www.actechperforms.com.
b. Creteseal Concrete Waterproofing Products, Inc.; Creteseal 2000: www.creteseal.com.
c. Floor Seal Technology, Inc.; VaporSeal 309 System: www.floorseal.com.
d. SINAK Corporation; VC5: www.sinak.com.
e. Substitutions: See Section 01 6000 - Product Requirements

END OF SECTION

SECTION 09 2116
GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Performance criteria for gypsum board assemblies.
B. Metal stud wall framing.
C. Metal channel ceiling framing.

2.01 BOARD MATERIALS
A. Manufacturers - Gypsum-Based Board:
1. American Gypsum Company: www.americangypsum.com/#sle.
2. CertainTeed Corporation: www.certainteed.com/#sle.
3. Georgia-Pacific Gypsum: www.gpgypsum.com/#sle.
4. National Gypsum Company: www.nationalgypsum.com/#sle.
5. USG Corporation: www.usg.com/#sle.
6. Substitutions: See Section 01 6000 - Product Requirements.
B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
a. Mold-resistant board is required whenever board is being installed before the building is enclosed and conditioned.
3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
4. Thickness: As indicated on Drawings.
C. Impact Resistant Wallboard:
1. Application: High-traffic areas indicated.
2. Surface Abrasion: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.
3. Indentation: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M.
4. Soft Body Impact: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.
5. Hard Body Impact: Level 2, minimum, when tested in accordance with ASTM C1629/C1629M.
6. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
7. Type: Fire-resistance-rated Type X, UL or WH listed.
8. Thickness: As indicated on Drawings.
9. Edges: Tapered.
D.Backing Board For Wet Areas:
1. Application: Surfaces behind tile in wet areas including toilet rooms.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
3. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
a. Thickness: As indicated on Drawings.
b. Products:
1) Custom Building Products: www.custombuildingproducts.com/#sle.
2) PermaBASE Building Products, LLC provided by National Gypsum Company; PermaBase Cement Board: www.goldbondbuilding.com/#sle.
E. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.
1. Application: Ceilings and vertical surfaces in "wet" areas but not behind thinset tile.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
3. Type: Regular and Type X, in locations indicated.
4. Type X Thickness: 5/8 inch.
5. Regular Board Thickness: As indicated on Drawings.
6. Edges: Tapered.
F. Ceiling Board: Special sag resistant gypsum ceiling board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Ceilings, unless otherwise indicated.
2. Thickness: 5/8 inch.
3. Edges: Tapered.

2.05 GYPSUM BOARD ACCESSORIES
A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced.
1. Use type of acoustical insulation to comply with indicated assembly requirements.
2. Where any specified rated assembly requires the use of proprietary acoustical insulation products, installation methods or procedures, comply with specified rated assembly requirements including requirements associated with assembly options which may be selected by Contractor .
3. Thickness: Full thickness of indicated wall framing, and 3-1/2 inches thick to comply with specified floor/ceiling assembly rating requirements.
B. Beads, Joint Accessories, and Other Trim: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise.
1. Corner Beads: Low profile, for 90 degree outside corners.
2. L-Trim with Tear-Away Strip: Sized to fit 1/2-inch thick gypsum wallboard.
3. Expansion Control Joints:
a. Type: V-shaped metal with factory-installed protective tape.
b. Applications: Locations specifically noted on Drawings; also located at internal corners, wall locations at re-entrant soffit corners and ceiling locations at re-entrant soffit corners whether or not specifically noted on Drawings.
c. Products:
1) Phillips Manufacturing Co; 093 Expansion Control Joint: www.phillipsmfg.com/#sle.
2) Substitutions: See Section 01 6000 - Product Requirements.
C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
1. Fiberglass Tape: 2 inch wide, coated glass fiber tape for joints and corners.
2. Joint Compound: Setting type, field-mixed.
D. High Build Drywall Surfacer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.
E. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant.
F. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws, corrosion-resistant.

PART 3 EXECUTION
3.01 EXAMINATION
A. Verify that project conditions are appropriate for work of this section to commence.
3.02 FRAMING INSTALLATION
A. Metal Framing: Install in accordance with ASTM C1007/AISI S220 and manufacturer's instructions.
B. Suspended Ceilings and Soffits: Space framing and furring members as indicated.
1. Level ceiling system to a tolerance of 1/600.
2. Install bracing as required at exterior locations to resist wind uplift.
3. Space ceiling framing and furring members 16 inches on center, except as otherwise indicated.
C. Studs: Space studs at 16 inches on center or as specified below.
1. Extend partition framing to structure where indicated and to ceiling in other locations.
2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
3. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of steel studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
4. Isolate stud system from transfer of structural loading to system, both horizontally and vertically. Provide slip or cushioned type joints to attain lateral support free from axial loading. Install each steel framing and furring member so that fastening surfaces do not vary more than 1/8 inch from plane of faces of adjacent framing.
5. At partitions supported by on-grade slabs, provide top slip joint to accommodate 1-1/2 inch vertical movement. Provide deflection tracks or firestop tracks at slip joints where specified, or detailed on Drawings.
D. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
1. Access Doors: Coordinate placement of openings for access doors and hatches with Architect before framing opening. Avoid placing openings at highly visible locations on wall and ceilings. Refer to Section 08 3100.
E. Blocking: Install mechanically fastened steel sheet blocking for support of:
1. Framed openings.
2. Wall-mounted cabinets.
3. Plumbing fixtures.
4. Toilet accessories.
5. Wall-mounted door hardware.
6. Similar items indicated on Drawings.
3.03 DIRECT HUNG CEILING SUSPENSION SYSTEM INSTALLATION
A. Install direct hung suspension system following manufacturer's recommendations.
B. Attach perimeter wall track or angle where support system meets vertical surfaces.
C. Mechanically join support members to each other and cut to fit into wall track.
D. Space main runners at 48 inches on center and cross tees at 24 inch on center, except as otherwise indicated.
3.04 ACOUSTIC ACCESSORIES INSTALLATION
A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
B. Acoustic Sealant: Install in accordance with manufacturer's instructions.
3.05 BOARD INSTALLATION
A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
1. Locate exposed end-butt joints as far from center of walls and ceilings as possible, and stagger not less than 24 inches in alternate courses of board.
B. Single-Layer Nonrated Applications: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
1. Exception: Tapered edges to receive joint treatment at right angles to framing.
C. Installation on Metal Framing: Use screws for attachment of gypsum board.
D. Isolate perimeter of non-load-bearing wallboard partitions on slabs on grade at intersection with exterior walls and fixed structural abutments. Provide 1/4 inch space to allow differential vertical movement and trim edges with L-type edge trim. Seal joints with acoustical sealant.
1. At window sill locations, extend gypsum board joint vertically and in alignment with joint below, to full height of partition.
3.06 INSTALLATION OF TRIM AND ACCESSORIES
A. Control Joints: Place control joints consistent with lines of building spaces as indicated on Drawings; if not specifically indicated, provide control joints as follows.
1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
B. Corner Beads: Install at external corners, using longest practical lengths.
C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials and as indicated.
3.07 JOINT TREATMENT
A. Paper Faced Gypsum Board: Use paper joint tape, embed with setting type joint compound and finish with setting type joint compound.
B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
3. Level 1: Wall areas above finished ceilings, whether or not accessible in the completed construction.
4. Level 0: Temporary partitions.
C. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
1. Feather coats of joint compound so that camber is maximum 1/32 inch.
D. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.
3.08 TOLERANCES
A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.
3.09 CLEANING
A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
3.10 PROTECTION
A. Protect installed gypsum board assemblies from subsequent construction operations.

END OF SECTION

SECTION 09 9123
INTERIOR PAINTING

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Surface preparation.
B. Field application of paints.
C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
1. If a surface, material, or item is not specifically mentioned, paint in the same manner as similar surfaces, materials, or items, regardless of whether colors are indicated or not.
2. Paint surfaces behind movable equipment and furnishings the same as similar exposed surfaces.
3. Paint surfaces to be concealed behind permanently installed fixtures, equipment, and furnishings, using primer only, prior to installation of the permanent item.
4. Prime surfaces to receive wall coverings.
D. Mechanical and Electrical:
1. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, and hangers, brackets, collars and supports, unless otherwise indicated.
2. In finished areas, paint shop-primed items.
E. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
5. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, and lead items.
6. Marble, granite, slate, and other natural stones.
7. Floors, unless specifically indicated.
8. Ceramic and other tiles.
9. Brick, architectural concrete, cast stone, integrally colored plaster, and stucco.
10. Glass.
11. Acoustical materials, unless specifically indicated.
12. Concealed pipes, ducts, and conduits.
1.02 DEFINITIONS
A. Comply with ASTM D16 for interpretation of terms used in this section.
B. Gloss Ratings: ASTM D523 on 85 and 60 degree gloss meters:
1. Flat: 0 to 15 (85 degree gloss meter).
2. Eggshell: 5 to 20 (60 degree gloss meter).
3. Satin: 15 to 35 (60 degree gloss meter).
4. Semi-Gloss: 30 to 65 (60 degree gloss meter).
5. Gloss (High): 65 and Greater (60 degree gloss meter).
1.03 REFERENCE STANDARDS
A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; Current Edition.
B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2024.
C. ASTM D523 - Standard Test Method for Specular Gloss; 2025.
D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.
E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).
F. SSPC-SP 6/NACE No.3 - Commercial Blast Cleaning; 2006.
1.04 ADMINISTRATIVE REQUIREMENTS
A. Coordination: Coordinate painting work with cleaning and preparation work so that dust and other contaminants do not fall on newly painted, wet surfaces.
1.05 SUBMITTALS
A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").
2. Cross-reference to specified paint system products to be used in project; include description of each system.
C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens not required.
3. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as gypsum board, have been approved.
D. Manufacturer's Instructions: Indicate special surface preparation procedures.
E. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.
F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 6000 - Product Requirements, for additional provisions.
2. Extra Paint and Finish Materials: 1 gal of each color; from the same product run, store where directed.
3. Label each container with color in addition to the manufacturer's label.
QUALITY ASSURANCE
G. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.
H. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years experience.
1.06 MOCK-UP
A. See Section 01 4000 - Quality Requirements, for general requirements for mock-up.
B. Paint wall, 10 feet long by 10 feet wide, illustrating paint color, texture, and finish.
C. Provide door and frame assembly illustrating paint color, texture, and finish.
D. Locate where directed by Architect.
E. Mock-up may remain as part of the work.
1.07 DELIVERY, STORAGE, AND HANDLING
A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
1.08 FIELD CONDITIONS
A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
C. Do not apply materials when relative humidity exceeds 85 percent, at temperatures less than 5 degrees F above the dew point, or to damp or wet surfaces.
D. Minimum Application Temperatures for Paints: 50 degrees F for interiors unless required otherwise by manufacturer's instructions.
E. Maximum Application Temperature: 90 degrees F for all finishes; unless required otherwise by manufacturer's instructions.
F. Provide lighting level of 80 fc measured mid-height at substrate surface.

PART 2 PRODUCTS
2.01 MANUFACTURERS
A. Provide paints and finishes from the same manufacturer to the greatest extent possible.
1. If a single manufacturer cannot provide specified products; minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.
2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
B. Paints:
1. Base Manufacturer: Subject to compliance with requirements, provide products indicated or comparable from one of the following:
2. Pittsburgh Paints: www.pittsburghpaintsco.com/#sle.
3. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
4. Benjamin Moore: www.benjaminmoore.com/#sle.
C. Primer Sealers: Same manufacturer as top coats.
D. Substitutions: See Section 01 6000 - Product Requirements.
2.02 PAINTS AND FINISHES - GENERAL
A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
3. Supply each paint material in quantity required to complete entire project's work from a single production run.
4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
B. Volatile Organic Compound (VOC) Content:
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
b. Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings; www.otcair.org; specifically:
1) Opaque, Flat: 50 g/L, maximum.
2) Opaque, Nonflat: 100 g/L, maximum.
3) Opaque, High Gloss: 250 g/L, maximum.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
C. Flammability: Comply with applicable code for surface burning characteristics.
D. Colors: As indicated on drawings.
1. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.
2. Extend colors to surface edges; colors may change at any edge as directed by Architect.
3. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling under which they are mounted, unless otherwise noted on Drawings.
2.03 PAINT SYSTEMS - INTERIOR
A. Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board.
1. Two top coats and one coat primer.
2. Top Coat(s): Institutional Low Odor/VOC Interior Latex.
a. Products:
1) PPG Paints SpeedHide Zero VOC Latex 6-4110XI, Flat.
2) PPG Paints SpeedHide Zero VOC Latex, 6-4310XI, Eggshell.
3) PPG Paints SpeedHide, Zero VOC Latex, 6-4510XI, Semi-Gloss.
4) Sherwin-Williams ProMar 200 Zero VOC Interior Latex, Flat.
5) Sherwin-Williams ProMar 200 Zero VOC Interior Latex, Eg-Shel.
6) Sherwin-Williams ProMar 200 Zero VOC Interior Latex, Semi-Gloss.
7) Benjamin Moore Ultra Spec 500, T535 Series, Flat.
8) Benjamin Moore Ultra Spec 500, T538 Series, Eggshell.
9) Benjamin Moore Ultra Spec 500, T546 Series, Semi-Gloss.
10) Substitutions: See Section 01 6000 - Product Requirements
3. Top Coat Sheen:
a. Flat: MPI gloss level 1; use this sheen for ceilings.
b. Eggshell: MPI gloss level 3; use this sheen for gypsum board, as indicated on Drawings.
c. Semi-Gloss: MPI gloss level 5; use this sheen for gypsum board, at some walls as indicated on Drawings.
B. Medium Duty Hollow Metal Door/Frame and Metal Fabrications: For surfaces subject to frequent contact by occupants, including metals:
1. Medium duty applications include door frames.
2. Two top coats and one coat primer.
3. Top Coat(s): Interior Light Industrial Coating, Water Based.
a. Products:
1) PPG Paints Pitt-Tech Plus EP DTM Acrylic 90-1610, Semi-Gloss.
2) Sherwin-Williams; Pro Industrial Acrylic Coating, Semi-Gloss.
3) Benjamin Moore; Ultra Spec HP D.T.M. Acrylic Semi-Gloss, HP29 Series.
4) Substitutions: See Section 01 6000 - Product Requirements
4. Top Coat Sheen:
a. Semi-Gloss: MPI gloss level 5; use this sheen at all locations.
2.04 PRIMERS
A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
1. Interior High Build Primer Surfacer.
a. Products:
1) Sherwin Williams Tuff Surface Interior Acrylic, A44W00050 at 200 sq ft per gallon8.0-10.0 mils wet.
(a) To make a Level 5 finish on drywall apply one coat by airless spray with all filters removed, Using a .027 to .031 tip. Allow to dry 8-10 hours minimum.
2) Substitutions: See Section 01 6000 - Product Requirements
2. Interior Drywall Primer Sealer.
a. Products:
1) Sherwin-Williams Pro Mar 200 Zero VOC Interior Latex Primer.
2) Benjamin Moore Ultra Spec 500 Latex Primer #N534.
3) Substitutions: See Section 01 6000 - Product Requirements
3. Interior Rust-Inhibitive Water Based Primer.
a. Products:
1) PPG Paints Pitt-Tech Plus Interior/Exterior EP DTM Waterborne Acrylic Primer/Finish, 90-1908
2) Sherwin-Williams Pro-Cryl Universal Primer B66-1310 Series.
3) Benjamin Moore Super Spec HP Acrylic Metal Primer P04.
4) Substitutions: See Section 01 6000 - Product Requirements
2.05 ACCESSORY MATERIALS
A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
B. Patching Material: Latex filler.
C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION
3.01 EXAMINATION
A. Do not begin application of paints and finishes until substrates have been adequately prepared.
B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
D. Test shop-applied primer for compatibility with subsequent cover materials; report incompatible primer conditions and submit recommended changes for Architect's approval.
E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
1. Gypsum Wallboard: 12 percent.
3.02 PREPARATION
A. Clean surfaces thoroughly and correct defects prior to application.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
D. Seal surfaces that might cause bleed through or staining of topcoat.
E. Gypsum Board to be painted: Fill minor defects with filler compound. Spot prime defects after repair.
F. Ferrous Metal to be painted:
1. Solvent clean according to SSPC-SP 1.
2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.
3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning in accordance with SSPC-SP 6/NACE No.3. Protect from corrosion until coated.
G. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.
3.03 APPLICATION - GENERAL
A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
B. Apply products in accordance with manufacturer's written instructionsusing the preparation, products, sheens, textures, and colors as indicated.
C. Use applicators and methods best suited for substrate and type of material being applied and according to manufacturer's instructions.
D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate; provide total dry film thickness of entire system as recommended by manufacturer.
E. Apply finish to completely cover surfaces with uniform appearance without brush marks, runs, sags, laps, ropiness, holidays, spotting, cloudiness, or other surface imperfections.
F. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
G. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
H. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
I. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.
J. Sand metal surfaces lightly between coats to achieve required finish.
K. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
L. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.
3.04 APPLICATION - SYSTEM COMPONENTS
A. Prime Coats: Before applying finish coats, apply prime coat to material that is required to be painted or finished, and that has not been primed or pre-coated by others. Re-coat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.
B. Pigmented (Opaque) Finishes: Completely cover surfaces to provide smooth surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be accepted.
C. Completed Work: Match approved field samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with specified requirements.
3.05 FIELD QUALITY CONTROL
A. See Section 01 4000 - Quality Requirements, for general requirements for field inspection.
B. Owner reserves the right to invoke the following test procedure at any time and as often as Owner deems necessary during the period when paint is being applied, or at any time prior to the Date of Final Completion:
1. Owner will engage a qualified independent testing agency or consultant to sample paint material being used or as applied. Samples of material will be taken, identified, sealed, and certified in the presence of the Contractor.
2. Testing agency will perform appropriate tests for material formulation and dry film thickness.
3. Owner may direct the Contractor to cease painting, or re-apply coating systems, if test results show that materials being used or applied materials do not comply with specified requirements.
4. In the event of non-compliant test results, remove non-complying material from Project Site, pay for testing, and repaint surfaces previously coated with non-compliant materials. If necessary, Contractor may be required to remove non-compliant materials from previously coated surfaces if, on repainting with compliant materials, the two coatings are incompatible
C. Inspect and test questionable coated areas in accordance with Painting and Decorating Contractors of America (PDCA) Standards.
3.06 CLEANING
A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove empty cans, rags, rubbish, and other discarded paint materials daily from site.
3.07 PROTECTION
A. Protect finishes until completion of project.
B. Protect other work, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting as approved by Architect .
C. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
E. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

SECTION 09 9300
STAINING AND TRANSPARENT FINISHING
PART 1 GENERAL
1.01 SECTION INCLUDES
A. Field application of stains.
B. Field application of transparent finishes.
1.02 DEFINITIONS
A. Comply with ASTM D16 for interpretation of terms used in this section.
1.03 REFERENCE STANDARDS
A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2024.
B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020.
C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.
1.04 SUBMITTALS
A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and catalog number, and general product category.
C. Samples: Two samples on actual wood substrate to be finished, 12 by 12 inch in size, indicating selected colors and sheens for each system, with specified coats cascaded.
D. Certification: By manufacturer that stains and transparent finishes comply with VOC limits specified.
E. Manufacturer's Instructions: Indicate special surface preparation procedures.
F. Maintenance Data: Submit data including finish schedule showing where each product, color, and finish was used, product technical data sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.
G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 6000 - Product Requirements for additional provisions.
2. Extra Stock Materials: Stain and transparent finish materials, 1 gal of each color and type; store where directed.
3. Label each container with color and type in addition to the manufacturer's label.
1.05 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with at least three years of documented experience.
B. Applicator Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.
1.06 DELIVERY, STORAGE, AND HANDLING
A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
B. Container Label: Include manufacturer's name, type of stain or transparent finish, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
C. Stain and Transparent Finish Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
1.07 FIELD CONDITIONS
A. Do not apply materials when surface and ambient temperatures are outside the

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
C. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
D. Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.
E. Wood Surfaces to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss varnish reduced 25 percent with thinner.
F. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
C. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
D. Sand wood surfaces lightly between coats to achieve required finish.
E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
F. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
G. Reinstall items removed prior to finishing.

3.04 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements for general requirements for field inspection.

3.05 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

A. Protect finishes until completion of project.
B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

1.02 REFERENCE STANDARDS

A. AISI S100 - North American Specification for the Design of Cold-Formed Steel Structural Members; 2016, with Supplement (2020).
B. AISI S220 - North American Standard for Cold-Formed Steel Nonstructural Framing; 2020.
C. AISI S240 - North American Standard for Cold-Formed Steel Structural Framing; 2015, with Errata (2020).
D. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2019 (Reapproved 2025).
E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
F. ASTM A1003/A1003M - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members; 2015.
G. ASTM C1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories; 2020 (Reapproved 2024).
H. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017 (Reapproved 2022).
I. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2020.
J. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2024.
K. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2022.
L. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2022.
M. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019.
N. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2024.
O. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.
P. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.
Q. ASTM E413 - Classification for Rating Sound Insulation; 2022.
R. GA-216 - Application and Finishing of Gypsum Panel Products; 2024.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate the installation of gypsum board assemblies with size, location, and installation of service utilities.
B. Coordinate with mechanical and electrical work. Do not attach or support metal framing to ducts, pipes, conduit, or similar items.
C. Coordinate installation of ceiling suspension system with installation of overhead structural systems to ensure that inserts and other structural anchorage provisions have been installed to receive ceiling anchors in a manner that will develop their full strength and at spacing required to support ceiling.
D. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers.
E. Sequencing: Install service utilities in an orderly and expeditious manner.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data:
1. Provide data on metal framing, gypsum board, accessories, and joint finishing system.
2. Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.
C. Shop Drawings: Indicate special details associated with acoustic seals.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, and with a minimum five years of documented experience.
B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.
C. Copies of Documents at Site: Maintain at the project site a copy of each referenced document that prescribes execution requirements.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store gypsum products and accessories indoors and keep above freezing. Elevate boards above floor, on nonwicking supports, in accordance with manufacturer's recommendations.
B. Store metal products to prevent corrosion, under cover and above grade.
C. Handle gypsum boards to prevent damage to ends, edges, and surfaces.

1.07 FIELD CONDITIONS

A. Maintain ambient temperatures at not less than 40 degrees F for non-adhesive attachment of gypsum board, and not less than 50 degrees F for adhesive attachment.
B. Maintain ambient temperatures at not less than 50 degrees F for a period 48 hours before gypsum board finishing, during installation, and after installation of board materials.

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.
B. Interior Partitions, Indicated as Acoustic: Provide completed assemblies with the following characteristics:
1. Acoustic Attenuation: STC of 45-49 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

2.02 METAL FRAMING MATERIALS

A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.
B. Manufacturers - Metal Framing, Connectors, and Accessories:
1. ClarkDietrich: www.clarkdietrich.com/#sle.
2. Phillips Manufacturing Co: www.phillipsmfg.com/#sle.
3. SCAFCO Corporation: www.scafco.com/#sle.
4. Steel Construction Systems: www.steelconsystems.com/#sle.
5. CEMCO; California Expanded Metal Company: www.cemcosteel.com.
6. Substitutions: See Section 01 6000 - Product Requirements.
C. Metal Framing - General: Provide framing materials complying with specified standards and tested assemblies; galvanized sheet steel, 25 gage unless specified, noted, scheduled, or detailed otherwise.
1. Use minimum 20 gage studs at door jambs and tile backing support and other locations indicated.
2. Use minimum 16 gage studs at double door jambs.
D. Non-structural Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.
1. Studs: C-shaped with knurled or embossed faces.
2. Runners: U shaped, sized to match studs.
3. Ceiling Channels: C-shaped.
4. Furring Members: Hat-shaped sections, minimum depth of 7/8 inch.
5. Stud System Accessories: Manufacturer's standard clips, shoes, ties, reinforcements, fasteners, and other accessories as required for a complete stud framing system.
E. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws, and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition and preventing cracking of gypsum board applied to interior partitions resulting from deflection of structure above wall; thickness and width to match studs.
1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.
2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot-dipped galvanized coating.
3. Provide components UL-listed for use in UL-listed fire-resistance-rated head of partition joint systems specified in Section 07 8400.
4. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-resistance rating of the wall assembly.
5. Use minimum 3 inch deep leg track for non-rated top of wall slip joints where indicated.
F. Non-structural Framing Accessories:
1. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
G. Grid Suspension Systems: Steel grid system of main tees and support bars connected to structure using hanging wire.
1. Products:
a. USG Corporation; Drywall Suspension System: www.usg.com/#sle.
b. Substitutions: See Section 01 6000 - Product Requirements.

2.03 CEILING SUSPENSION SYSTEM COMPONENTS

A. Gypsum Board Interior Ceiling Suspension System.
1. Ceiling Hanger Wire: ASTM A641/A641M, Class 1 coating; soft temper, pre-stretched, yield stress load at least three times design load, but not less than 12 gage.

2.04 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:
1. American Gypsum Company: www.americangypsum.com/#sle.
2. CertainTeed Corporation: www.certainteed.com/#sle.
3. Georgia-Pacific Gypsum: www.gpgypsum.com/#sle.
4. National Gypsum Company: www.nationalgypsum.com/#sle.
5. USG Corporation: www.usg.com/#sle.
6. Substitutions: See Section 01 6000 - Product Requirements.
B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
a. Mold resistant board is required at all locations.
3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
4. Thickness: As indicated on Drawings.

DIVISION 10 - SPECIALTIES
10 2613 CORNER GUARDS
PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes:
1. Metal corner guards, paintable finish.
2. Accessories required for complete installation.
B. Related Sections:
1. Section 09 91 23 – Interior Painting: Field-applied paint finishes.
2. Section 09 29 00 – Gypsum Board: Substrate for corner guard installation.
3. Section 10 26 16 – Wall and Door Protection Panels (if used in combination).

1.02 REFERENCES

A. ASTM A240/A240M – Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip.
B. ASTM B209 – Aluminum and Aluminum-Alloy Sheet and Plate.
C. ASTM D3359 – Standard Test Methods for Measuring Adhesion by Tape Test.
D. SSPC-SP 1 – Solvent Cleaning.

1.03 SUBMITTALS

A. Product Data: Manufacturer's technical data, installation instructions, and maintenance recommendations.
B. Samples: Minimum 6-inch long sample, showing profile, material, and factory primer for paint.
C. Shop Drawings (when required): Indicate locations, mounting details, and termination conditions.
D. Maintenance Data: For incorporation into O&M manuals.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum 5 years' experience producing wall protection products.
B. Installer Qualifications: Experienced installer with minimum 3 similar installations.
C. Mock-Up:
1. Install one corner guard at location designated by Architect.
2. Accepted mock-up may remain as part of Work.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original protective packaging.
B. Store indoors, elevated above floor, protected from moisture and physical damage.
C. Handle materials in a manner to prevent damage to edges and finish.

1.06 WARRANTY

A. Manufacturer's standard 1-year warranty against material and manufacturing defects.
B. Warranty does not cover damage due to abuse, improper installation, or failure of substrate.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Inpro Corporation; Model: G2 Series Tape-On Rigid Vinyl Corner Guards.
B. Acceptable Manufacturers:
1. Inpro Corporation.
2. Construction Specialties (CS Group).
3. [Insert Local or Regional Manufacturer].
C. Substitutions: Per Section 01 25 00 – Substitution Procedures.

2.02 MATERIALS

A. Metal Corner Guards:
1. Material Options (select one):
a. Aluminum sheet, ASTM B209, minimum 0.063 inch (1.6 mm) thick.
b. Stainless steel, ASTM A240, minimum 18 gauge.
2. Profile:
a. 90-degree angle.
b. Standard leg length: 1-1/2 inch (38 mm).
c. Optional sizes: 2 inch (51 mm), 3 inch (76 mm).
3. Height: Full wall height unless otherwise indicated.
4. Edges: Square or slightly eased, free of burrs.
B. Finish:
1. Factory primed for field-applied paint finish.
2. Primer compatible with latex and alkyd paints.
3. Color: To match adjacent wall finish (painted in field).

2.03 ACCESSORIES

A. Fasteners: Manufacturer's standard, concealed where possible, suitable for substrate.
B. Adhesive (optional): Manufacturer's recommended adhesive compatible with substrate and finish.
C. Edge Trim: As required for neat termination where corner guards do not extend to floor or ceiling.

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify substrate surfaces are clean, dry, and smooth prior to installation.
B. Correct unsatisfactory conditions prior to beginning work.

3.02 PREPARATION

A. Remove loose materials and debris from substrate corners.
B. Prime substrate surfaces as required by manufacturer for adhesive installation.

3.03 INSTALLATION

A. Install corner guards in accordance with manufacturer's instructions.
B. Locate as indicated on drawings; set plumb, straight, and tight to substrate.
C. Provide uniform contact along entire length of corner guard.
D. Secure with concealed fasteners or adhesive, unless otherwise indicated.

3.04 FIELD FINISHING

A. Prepare primed metal surface in accordance with paint manufacturer's recommendations.
B. Apply paint finish per Section 09 91 23 to match adjacent wall finish.
C. Ensure coating adhesion per ASTM D3359.

3.05 CLEANING AND PROTECTION

A. Clean surfaces of adhesives, dust, and construction debris.
B. Protect installed work from damage during remainder of construction.
C. Replace damaged or defective work prior to Substantial Completion.

END OF SECTION

SECTION 10 2123
TOILET PARTITIONS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes stock and manufactured toilet partitions with Prism™ Solid Surface exterior and moisture resistant wood reinforced core.
B. Types of Toilet Partitions include:
1. Doors, Walls, & Pilasters: Prism™ Solid Surface with moisture resistant wood reinforced core
C. Construction styles of Toilet Partitions include:
1. Floor Mounted, Overhead Braced

1.03 REFERENCES

A. American National Standards Institute (ANSI)
B. American Society of Testing and Materials (ASTM)
C. International Cast Polymer Alliance (ICPA)
D. National Fire Protection Association (NFPA)

1.04 SYSTEM DESCRIPTION

A. Performance Requirements: Provide solid surface material that conforms to ANSI/ICPA SS-1, Performance Standard for Solid Surface Materials for workmanship and finish, structural integrity and material characteristics.
1. Fungal and Bacterial Resistance: Provide a solid surface material that does not support fungal and bacterial growth as tested in accordance with ASTM G21 and ASTM G22.
2. Fire Performance Characteristics: Provide a solid surface material conforming with the NFPA class A fire rating as determined by ASTM E84.

1.05 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.
B. Product data for materials and installation including anchors, hardware, fastenings, and accessories.
C. Shop drawings for installation of Partition assemblies that are not fully described by architectural drawings. Provide layouts and installation instructions.
D. Samples: Verification samples minimum 1.5" x 3" samples indicating color and pattern.

1.06 QUALITY ASSURANCE

A. Field Measurements: Take field measurements prior to component fabrication to ensure proper fitting of work.
B. Coordination: Manufacturer to provide standard fasteners. Installer is to confirm and provide appropriate fasteners for field conditions to install Toilet Partitions and related items.

1.07 DELIVERY STORAGE AND HANDLING

A. Deliver materials in unopened factory packaging to the jobsite.
B. Inspect materials at delivery to ensure that specified products have been received.
C. Store in original packaging in an interior climate controlled location away from direct sunlight.

1.08 PROJECT CONDITIONS

A. Environmental Requirements: Products must be installed in an interior climate controlled environment.

1.09 WARRANTY

A. Standard Prism™ Solid Surface Partition Limited 5 Year Warranty against material and manufacturing defects.

PART 2 – PRODUCTS

2.01 MANUFACTURER

A. Basis-Of-Design Product: Inpro Corporation, Endurant
PO Box 406 Muskego, WI 53150 USA; Telephone: 800.222.5556, Fax: 888.715.8407, Website: www.inprocorp.com.

2.02 DESCRIPTION

A. General: Provide Toilet Partition, Doors, Wall Panels, & Pilasters that are fabricated from Prism™ Solid Surface material bonded to a moisture resistant wood reinforced core. Edges shall be fabricated from a matching solid surface material. All seams and glue lines will be inconspicuous. All doors, panels, and pilasters shall be 1" (25.4mm) finished thickness. Doors, panels, and pilasters shall be assembled into complete compartment system.

2.03 MANUFACTURED UNITS

A. Toilet Compartments/Partitions, floor mounted with overhead bracing.
1. Door Size – 32"x68", 22-48" widths and 58-84" heights (18 SQ FT MAX)
2. Panel Size – 68"x63", 84" maximum length or width, not to exceed 60 ½" in both directions (30 SQ FT MAX)
3. Pilaster width – 3"-10" (1-inch increments)
4. Pilaster Height – 83" Standard up to 96"

2.04 MATERIALS

A. Prism Solid Surface Toilet Partition Panels:
1. Prism™ Solid Surface sheet shall be 1/4" (6.35mm) thick. Material shall be manufactured from polyester/acrylic blended resins with natural filler material.
2. Core Material: Core material of ½" (13mm) thickness shall be moisture resistant wood reinforced core.
3. Edge and seam adhesives: Seams shall be bonded with methyl methacrylate adhesive matching in pigmentation to the face and edge material. All seam and glue lines will be inconspicuous.
4. Stainless Steel: Stainless steel pilaster shoes and caps and brackets shall be type 304 Stainless Steel with a #4 Satin Finish.
5. Aluminum: Aluminum headrails shall be continuous extruded aluminum, anti-grip profile, with a clear anodized satin finish.
6. Exposed Fasteners: Exposed fasteners shall be tamper resistant and stainless steel.
7. Concealed Fasteners: Concealed fasteners shall be zinc plated steel.

2.05 FINISHES

A. Color: Frosted White P9711

2.06 ACCESSORIES

A. Pilaster Shoes
1. Stainless steel shoes (Standard), 22 gauge, Type #304 stainless steel, #4 Satin finish.
a. 4" Height, 3" to 10" (1-inch increments), 10" to 24" (2-inch increments).
B. Trim
1. Full Trim Package
a. Provide solid surface trim that conceals brackets except hinges, and blocks line of sight at door opening.
D. Hinges
1. Hinge – 58" high doors or less – 3 hinges, 59 - 84" high doors – 4 hinges - surface spring 4" x 3/32", stainless steel –satin finish
2. Piano Hinge-Cam 57-1/2" long (full close), stainless steel –satin finish
3. Piano Hinge-Cam 71" long (full close), stainless steel –satin finish
E. Latches
1. Latch Slide - surface mounted – stainless steel –satin finish
2. Strike - 1" Door - stainless steel – satin finish
3. Continuous Strike – 54" long – aluminum – clear anodized
4. Keeper - stainless steel – satin finish
5. Emergency Access Indicator Latch
F. Throws
1. Latch-Throw – stainless – satin finish
2. Strike - 1" Door - stainless steel – satin finish
3. Continuous Strike – 54" long – aluminum – clear anodized
4. Throw Latch Pack - ADA compliant latch – stainless steel – satin finish
G. Hooks
1. Hook-combination bumper, satin stainless steel
H. Pulls
1. Door Pull 3-1/2" centers - Cast stainless steel
I. Headrails (Overhead Bracing)
1. Continuous extruded aluminum, anti-grip profile, with clear anodized satin finish. Headrail returns as shown on shop drawings.
a. Headrail - 8-1/2'
b. Headrail - 10'

2.07 FABRICATION

A. General: Furnish standard doors, panels, and pilasters fabricated for partition system.
B. Door Dimensions: Unless otherwise indicated, furnish 24" wide in-swing doors for ordinary toilet partitions and minimum 32" wide (clear opening) out-swing doors for partitions that meet the requirements of the Americans with Disabilities Act (ADA).
C. Toilet Partitions:
1. Solid Surface with Moisture Resistant Wood Reinforced Core: material shall be processed and fabricated in a craftsman like manner. All surfaces shall have Inpro's final finish. Seams shall be tightly bonded. All seam and glue lines will be inconspicuous. Edges shall be finished and free of milling marks.

PART 3 – EXECUTION

3.01 INSTALLATION

A. General: Install in accordance with manufacturer's instructions.
1. Install compartment units rigid, straight, plumb and level.
2. Provide clearance of not more than 1/2 inch (13 mm) between pilasters and panels and not more than 1 inch (25.4 mm) between panels and structural walls.
3. Secure panels to walls with three brackets for walls up to 58" high, and 4 brackets for walls 59" – 84" high, attached near top, middle and bottom of panel or one continuous bracket, centered.
4. Locate wall brackets so holes for wall anchorages occur in masonry or tile joints.
5. Secure panels to pilasters with three brackets for walls up to 58" high, and 4 brackets for walls 59" – 84" high, located to align with brackets at wall.
6. Secure panels in position with anchoring devices.
7. Level, plumb, and tighten installation.
B. Floor Mounted Overhead Braced Compartments:
1. Secure pilaster to floor. Secure overhead brace to each pilaster with fasteners supplied.
2. Attach wall panels to structural walls and pilasters with supplied hardware.
3. Hang doors and adjust so tops of doors are parallel with overhead brace when doors are in closed position.
E. Hardware Adjustment:
1. Adjust and lubricate hardware for proper operation.
2. Set the surface mounted spring hinges on inswing doors to hold open approximately 20 degrees from closed position when unlatched.
3. Set the surface mounted spring hinges on out-swing doors (and entrance swing doors) to return to fully closed position.

3.02 CLEANING

A. Clean and Protect: Clean exposed surfaces of partition parts using materials and methods recommended by manufacturer and provide protection as necessary to prevent damage during remainder of construction period.
B. Scratch Removal: Sand or buff out scratches per methods recommended by manufacturer.

END OF SECTION

SECTION 06 6100
SHOWER PARTITIONS
PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes stock and manufactured shower partitions with Prism™ Solid Surface exterior and anti-absorbent composite core. Pilasters shall be 100% Prism™ Solid Surface.
B. Types of Shower Partitions include:
1. Doors & Walls: Prism™ Solid Surface with anti-absorbent composite core
2. Pilasters: 100% Prism™ Solid Surface
C. Construction styles of Shower Partitions include:
1. Floor Mounted, Overhead Braced

1.03 REFERENCES

A. American National Standards Institute (ANSI)
B. American Society of Testing and Materials (ASTM)
C. International Cast Polymer Alliance (ICPA)
D. National Fire Protection Association (NFPA)

1.04 SYSTEM DESCRIPTION

A. Performance Requirements: Provide solid surface material that conforms to ANSI/ICPA SS-1, Performance Standard for Solid Surface Materials for workmanship and finish, structural integrity and material characteristics.
1. Fungal and Bacterial Resistance: Provide a solid surface material that does not support fungal and bacterial growth as tested in accordance with ASTM G21 and ASTM G22.
2. Fire Performance Characteristics: Provide solid surface shower partitions with the NFPA class B fire rating as determined by ASTM E84. Shower partition pilasters shall have NFPA class A fire rating as determined by ASTM E84.

1.05 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.
B. Product data for material and installation including anchors, hardware, fastenings, and accessories.
C. Shop drawings for installation of Partition assemblies that are not fully described by architectural drawings. Provide layouts and installation instructions.
D. Samples: Verification samples minimum 1.5" x 3" samples indicating color and pattern.

1.06 QUALITY ASSURANCE

A. Field Measurements: Take field measurements prior to component fabrication to ensure proper fitting of work.
B. Coordination: Manufacturer to provide standard fasteners. Installer is to confirm and provide appropriate fasteners for field conditions to install Shower Partitions and related items.

1.07 DELIVERY STORAGE AND HANDLING

A. Deliver materials in unopened factory packaging to the jobsite.
B. Inspect materials at delivery to ensure that specified products have been received.
C. Store in original packaging in an interior climate controlled location away from direct sunlight.

1.08 PROJECT CONDITIONS

A. Environmental Requirements: Products must be installed in an interior climate controlled environment.

1.09 WARRANTY

A. Standard Prism™ Solid Surface Partition Limited 5 Year Warranty against material and manufacturing defects.

PART 2 – PRODUCTS

2.01 MANUFACTURER

A. Basis-Of-Design Product: Inpro Corporation, Endurant
PO Box 406 Muskego, WI 53150 USA; Telephone: 800.222.5556, Fax: 888.715.8407, Website: www.inprocorp.com.

2.02 DESCRIPTION

A. General: Provide Shower Partition, Doors and Wall Panels that are fabricated from Prism™ Solid Surface material bonded to an anti-absorbent composite core. Pilasters shall be 100% Prism™ Solid Surface material. Edges shall be fabricated from a matching solid surface material. All seams and glue lines will be inconspicuous. All doors, panels, and pilasters shall be 1" (25.4mm) finished thickness. Doors, panels, and pilasters shall be assembled into complete compartment system.

2.03 MANUFACTURED UNITS

A. Shower Compartments/Partitions, floor mounted with overhead bracing.
1. Door Size – No Door
2. Panel Size –60.5"x64" Standard, 84" maximum length or width, not to exceed 60 ½" in both directions (30 SQ FT MAX)
3. Pilaster width – 3"-10" (1-inch increments)
4. Pilaster Height – 83" standard up to 120"

2.04 MATERIALS

A. Prism Solid Surface Shower Partition Panels:
1. Prism™ Solid Surface sheet shall be 1/4" (6.35mm) thick. Material is a mineral filled, cast -based polyester/acrylic hybrid sheet manufactured in flat panels.
2. Core Material: Core material of ½" (13mm) thickness shall be an anti-absorbent composite.
3. Edge and seam adhesives: Seams shall be bonded with methyl methacrylate adhesive matching in pigmentation to the face and edge material. All seam and glue lines will be inconspicuous.
4. Stainless Steel: Stainless steel pilaster shoes and caps and brackets shall be type 304 Stainless Steel with a #4 Satin Finish.
5. Aluminum: Aluminum headrails shall be continuous extruded aluminum, anti-grip profile, with a clear anodized satin finish.
6. Exposed Fasteners: Exposed fasteners shall be tamper resistant stainless steel.
7. Concealed Fasteners: Concealed fasteners shall be zinc plated steel.

2.05 FINISHES

A. Color: Frosted White P9711

2.06 ACCESSORIES

A. Pilaster Shoes
1. Stainless steel shoes (Standard), 22 gauge, Type #304 stainless steel, #4 Satin finish.
a. 4" Height, 3" to 10" (1-inch increments), 10" to 24" (2-inch increments).
B. Trim
1. Full Trim Package
a. Provide solid surface trim that conceals brackets except hinges, and blocks line of sight at door opening.
C. Brackets
1. Brackets shall be Type #304 stainless steel with #4 Satin finish hardware.
a. 4 contact points - standard
b. Continuous channel - optional
I. Headrails (Overhead Bracing)
1. Continuous extruded aluminum, anti-grip profile, with clear anodized satin finish. Headrail returns as shown on shop drawings.
a. Headrail - 8-1/2'
b. Headrail - 10'

2.07 FABRICATION

A. General: Furnish standard panels, and pilasters fabricated for partition system.
C. Shower Partitions:
1. Solid Surface with Anti-Absorbent Composite Core: material shall be processed and fabricated in a craftsman like manner. All surfaces shall have Inpro's final finish. Seams shall be tightly bonded. All seam and glue lines will be inconspicuous. Edges shall be finished and free of milling marks.

PART 3 – EXECUTION

3.01 INSTALLATION

A. General: Install in accordance with manufacturer's instructions.
1. Install compartment units rigid, straight, plumb and level.
2. Provide clearance of not more than 1/2 inch (13 mm) between pilasters and panels and not more than 1 inch (25.4 mm) between panels and structural walls.
3. Secure panels to walls with not less than four brackets attached near top, middle and bottom of panel.
4. Locate wall brackets so holes for wall anchorages occur in masonry or tile joints.
5. Secure panels to pilasters with not less than four brackets located to align with brackets at wall.
6. Secure panels in position with anchoring devices.
7. Level, plumb, and tighten installation.
B. Floor Mounted Overhead Braced Compartments:
1. Secure pilaster to floor. Secure overhead brace to each pilaster with fasteners supplied.
2. Attach wall panels to structural walls and pilasters with supplied hardware.
3. Hang doors and adjust so door gaps are the same on both sides when in the closed position.
E. Hardware Adjustment:
1. Adjust and lubricate hardware for proper operation.

3.02 CLEANING

A. Clean and Protect: Clean exposed surfaces of partition parts using materials and methods recommended by manufacturer and provide protection as necessary to prevent damage during remainder of construction period.
B. Scratch Removal: Sand or buff out scratches per methods recommended by manufacturer.

END OF SECTION

ALTERNATE LIST:

ALTERNATE 01 - IN LEIU OF EXPOSED CEILINGS IN THE COMMON LOCKER ROOM SPACES OF THE NORTH SIDE LOCKER ROOMS, PROVIDE A GYPSUM BOARD CEILING AS SHOWN ON SHEET A-202. USE THE CONTRACT DRAWINGS FOR SUPPLEMENTAL INFORMATION. INCLUDE ALL MECHANICAL, ELECTRICAL AND PLUMBING SCOPE REQUIRED FOR THIS ALTERNATE.

ALTERNATE 02 - COMPLETE SCOPE OF WORK OUTLINED ON SHEET A-203. USE THE CONTRACT DRAWINGS FOR SUPPLEMENTAL INFORMATION. SCOPE INCLUDES DEMOLITION, MECHANICAL, PLUMBING, ELECTRICAL, INTERIOR FINISHES AND EQUIPMENT.

ALTERNATE 03 - COMPLETE SCOPE OF WORK OUTLINES ON SHEET A-204. USE THE CONTRACT DRAWINGS FOR SUPPLEMENTAL INFORMATION. SCOPE INCLUDES DEMOLITION, MECHANICAL, PLUMBING, ELECTRICAL, INTERIOR PARTITIONS/ CEILINGS, FINISHES AND EQUIPMENT.

NOTE: REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDTIONAL ALTERNATE SCOPE INFORMATION.

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BRANDON A. DARLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
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Sheet Name
SPECIFICATIONS

G-002.6

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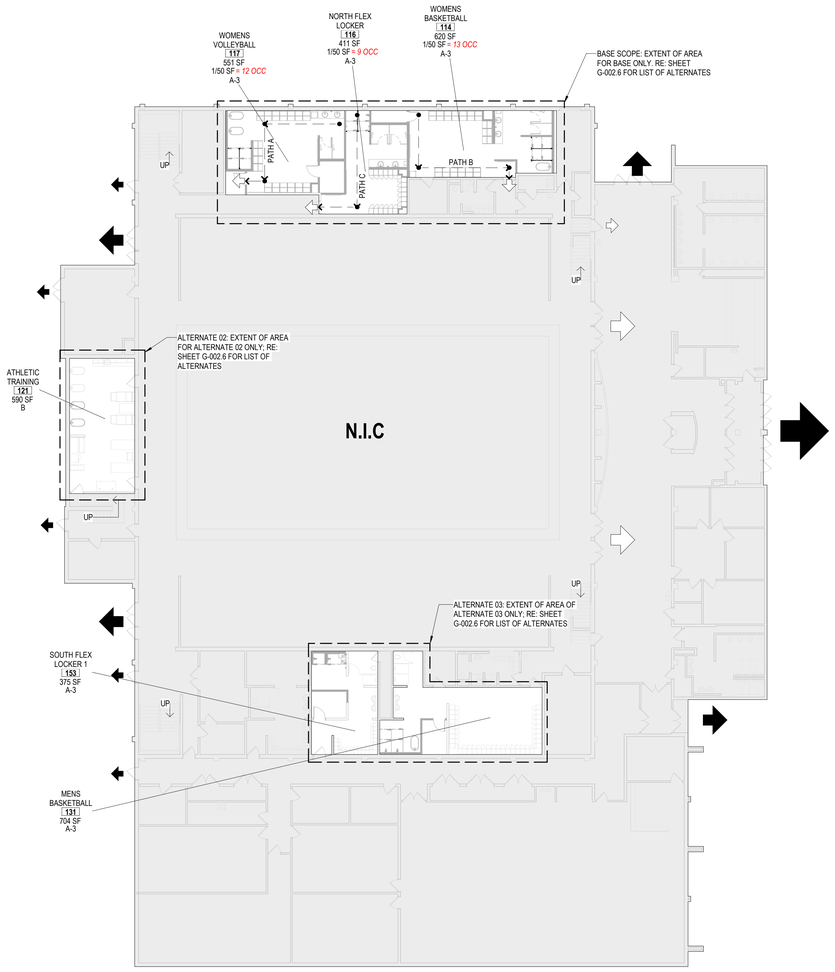

2 LEVEL 1 - CODE COMPLIANCE PLAN

1/16" = 1'-0"

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CODE REVIEW (Draft) 2024 ICC

JURISDICTION Casper, WY

CODES
2024 International Building Code
2024 International Mechanical Code
2024 International Plumbing Code
2023 National Electrical Code
2024 International Fire Code
2024 International Existing Building Code
2017 ICC A117.1, Accessible and Usable Buildings and Facilities (IBC - Chapter 35)
Americans with Disabilities Act (ADA)

PROJECT DESCRIPTION FOLLOWING ARE THE PLAN OUTLINING THE SCOPE OF WORK REQUIRED FOR AN APPROX. 2,800 SQ. FT INTERIOR RENOVATION PROJECT. THERE IS NO PROPOSED CHANGE-OF-USE. WORK TO INCLUDE CONSTRUCTION OF NEW NON-STRUCTURAL PARTITIONS, CEILINGS, FINISHES, MECHANICAL, PLUMBING AND ELECTRICAL.

BUILDING AREA MAIN LEVEL - 36,200 GSF (EXISTING)
UPPER LEVEL - 6,500 GSF (EXISTING BLEACHER SEATING ONLY)

AREA OF WORK 2,800 GSF AREA OF WORK (7.7% OF MAIN LEVEL SQUARE FOOTAGE)

NO. OF STORIES 2 (EXISTING; UPPER LEVEL IS BLEACHER SEATING ONLY)

BUILDING HEIGHT EXISTING

ITEM		CODE CITATION
OCCUPANCY CLASSIFICATIONS	A-5, A-4, A-3, B, S-2 - NO CHANGES TO OCCUPANCY CLASSIFICATION	SECTIONS 303.4, 303.5, 303.6, 304.1 & 311.3
OCCUPANCY SEPARATION	AREAS OF RENOVATION DOES NOT INCLUDE WORK AT SEPARATE OCCUPANCIES. MAINTAIN ANY EXISTING RATING OF VERTICAL AND HORIZONTAL ASSEMBLIES.	

OCCUPANT LOAD
THERE ARE NO CHANGES TO OCCUPANT LOAD AS A PART OF THIS PROJECT. ONLY RECONFIGURATION OF SPACES.

IEBC ALTERATION IEBC 602 & 603 CHAPTER 7 & CHAPTER 8

LEVEL 1 ALTERATION
LEVEL 1 ALTERATION INCLUDE THE REMOVAL AND REPLACEMENTS OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES THAT SERVE THE SAME PURPOSE.

LEVEL 2 ALTERATION
LEVEL 1 ALTERATION INCLUDE THE ADDITION OF ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK AREA IS EQUAL TO OR LESS THAN 50 PERCENT OF THE BUILDING AREA.

CONSTRUCTION **II-B (EXISTING)** SECTION 602 & TABLE 601

FIRE PROTECTION

FIRE SPRINKLERING	EXISTING FIRE SUPPRESSION SYSTEM TO REMAIN
FIRE EXINGUISHERS	EXISTING CLASS ABC EXTINGUISHERS TO REMAIN
FIRE ALARM	EXISTING FIRE ALARM SYSTEM TO REMAIN

EXITS

NUMBER OF EXITS FROM SPACES:
THERE ARE NO CHANGES TO EXITING OR NUMBER OF EXITS AS PART OF THIS PROJECT. MAINTAIN EGRESS AT ALL TIMES DURING CONSTRUCTION.

NUMBER OF EXITS FROM STORIES:
THERE ARE NO CHANGES TO THE NUMBER OF EXITS FROM THE UPPER LEVEL AS PART OF THIS PROJECT. MAINTAIN EGRESS AT ALL TIMES DURING CONSTRUCTION.

SEPARATION OF EXITS
THERE ARE NO CHANGES TO THE REQUIREMENT OF SEPARATION OF EXITS AS A PART OF THIS PROJECT. MAINTAIN EGRESS AT ALL TIMES DURING CONSTRUCTION.

COMMON PATH OF EGRESS TRAVEL 75 FT MAX. TABLE 1006.2.1

EXIT ACCESS TRAVEL DISTANCE		
PATH ID	TYPE	LENGTH
Path A	Common Path	39'
Path B	Common Path	40'
Path C	Common Path	34'

PLUMBING FIXTURES SECTION 2902.2

NOTE: THE EXISTING OCCUPANT LOAD AND EXISTING FIXTURE COUNT DO NOT INCLUDE LOCKER ROOMS. LOCKER ROOMS ARE NOT AVAILABLE TO THE GENERAL BUILDING OCCUPANTS. LOCKER ROOMS ARE SELF SUFFICIENT FROM A FIXTURE COUNT STANDPOINT.

NO CHANGES ARE PROPOSED TO THE OCCUPANT LOADS OR PLUMBING FIXTURES AT THE NOT-IN-SCOPE AREAS OF THE BUILDING.

ROOM	OCCUPANT LOAD	TOILETS		URINALS	LAVS	
		REQUIRED	PROVIDED	PROVIDED	REQUIRED	PROVIDED
WOMENS BASKETBALL	13 OCC (1/50 SF)	13/65=0.2	2	N/A	13/200=0.065	2
NORTH FLEX LOCKER	9 OCC (1/50 SF)	9/65=0.14	2	N/A	9/200=0.045	2
WOMENS VOLLEYBALL	12 OCC (1/50 SF)	12/65=0.18	2	N/A	12/200=0.06	2

OTHER REQUIREMENTS AND PROVISIONS

ACCESSIBILITY CHAPTER 11, ANSI/ICC A117.1, ADA
ACCESSIBILITY IMPROVEMENTS TO THIS PROJECT INCLUDE ADA SHOWER RECONFIGURATION IN THE SOUTH GUEST LOCKER ROOM.

DOORS, GATES & TURNSTILES **SECTION 1010**

MINIMUM CLEAR WIDTH = 32"	SECTION 1010.1.1
PROJECTION INTO CLEAR WIDTH	SECTION 1010.1.1.1
LANDINGS AT DOORS	SECTION 1010.1.5
THRESHOLDS	SECTION 1010.1.6

INTERIOR WALL AND CEILING FINISH REQUIREMENTS TABLE 803.13

	CLASS
REFER TO TABLE FOR REQUIREMENTS BY OCCUPANCY	
ROOMS AND ENCLOSED SPACES:	C

CARBON MONOXIDE DETECTION SECTION 915
SHALL COMPLY WITH NFPA 70, NFPA 72, AND IFC 11.

LIFE SAFETY LEGEND

PATH A / PATH B — MEANS OF EGRESS - TRAVEL DISTANCE / MEANS OF EGRESS - COMMON PATH

EXIT DISCHARGE — EXIT

FEC — FIRE EXTINGUISHER CABINET

FE — FIRE EXTINGUISHER

SCOPE LEGEND

AREA NOT IN CONTRACT (N.I.C.)

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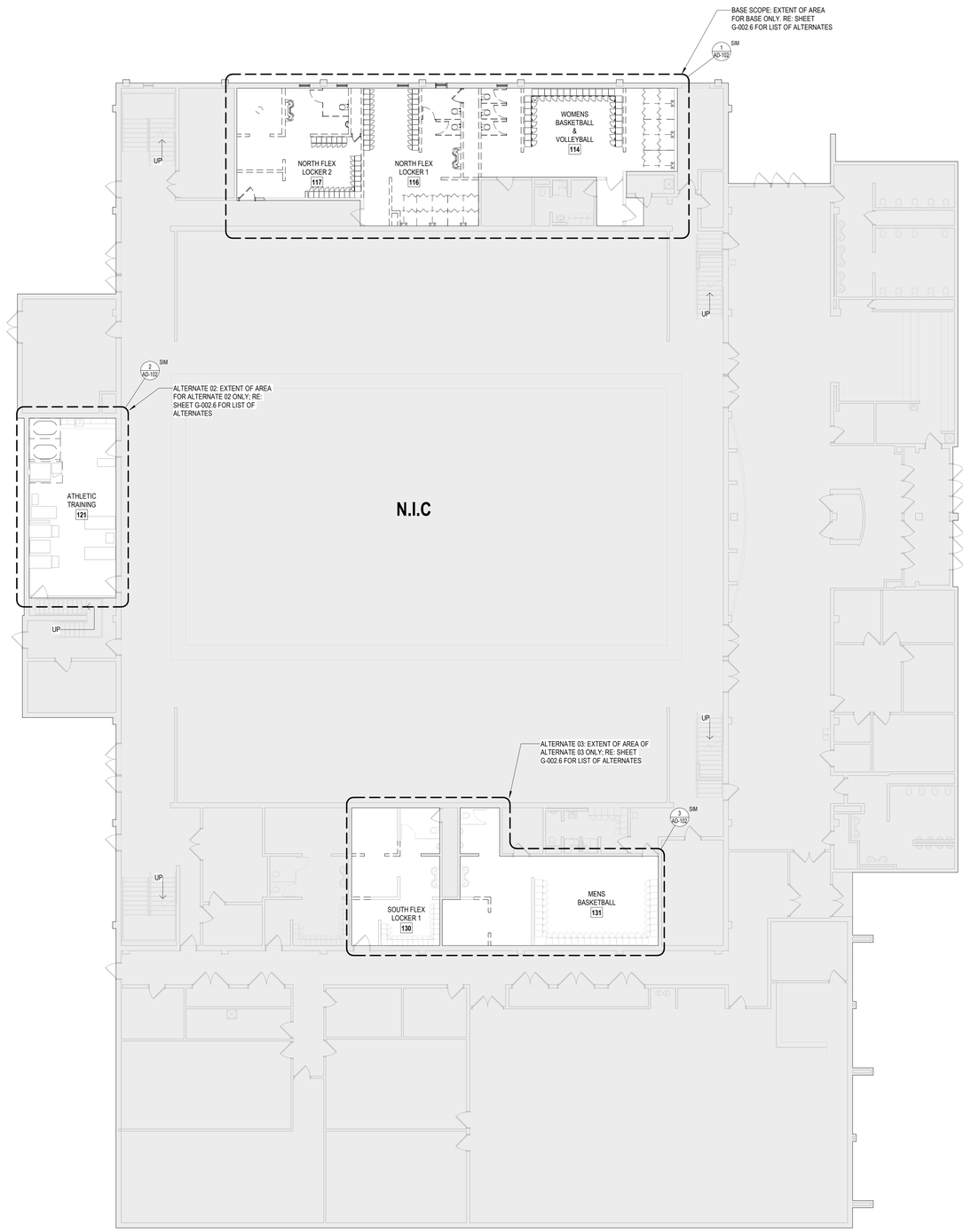
CODE COMPLIANCE

G-003



1 OVERALL DEMOLITION PLAN
3/32" = 1'-0"

GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. DEMOLITION PLAN(S) TO BE USED IN CONJUNCTION WITH THE FLOOR PLAN(S) TO DETERMINE EXACT SCOPE OF DEMOLITION.
2. VERIFY THAT ALL ITEMS INDICATED AS EXISTING ARE CORRECT.
3. PERFORM ALL DEMOLITION WORK WITH MINIMUM DAMAGE TO THE EXISTING WORK TO REMAIN. EXERCISE THE UTMOST CARE WHILE PERFORMING THE DEMOLITION WORK. PROVIDE BARRICADES WHERE REQUIRED TO PROTECT THE PUBLIC.
4. PROTECT GYMNASIUM WOOD FLOOR DURING DEMOLITION AND CONSTRUCTION.
5. DO NOT REMOVE ANY STRUCTURAL COLUMNS, WALLS OR SUPPORTS. CAREFULLY REMOVED INTERIOR PARTITIONS ONLY. IF THERE IS ANY CONCERN WHETHER AN INTERIOR WALL IS BEARING OR NOT, CONTACT ARCHITECT IMMEDIATELY.
6. REFER TO PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS FOR SCOPE OF DEMOLITION UNDER EACH DISCIPLINE.
7. DEMOLITION OF FLOOR SLAB AND TRENCHING FOR NEW PLUMBING SCOPE SHALL BE PATCHED TO ACCOMMODATE NEW FLOORING FINISHES WITHOUT ANY TRANSCRIBING OF CONCRETE IRREGULARITIES.
8. EXISTING FLOORING THAT IS REMOVED SHALL BE AN ACCEPTABLE SUBSTRATE SMOOTHNESS FOR NEW FLOORING.
9. REMOVE AND RETURN TO OWNER ALL WALL MOUNTED ACCESSORIES/SPECIALTIES.
10. REMOVE AND RETURN TO OWNER ALL EQUIPMENT/ FURNISHINGS.
11. PATCH EXISTING WALLS AND TOUCH UP PAINT AS REQUIRED WHERE DEVICES ARE INSTALLED OR RELOCATED.
12. COORDINATE WITH ARCHITECT AND OWNER IF EQUIPMENT, FURNISHINGS OR ACCESSORIES REQUIRE TO BE TEMPORARILY RELOCATED.

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OVERALL DEMOLITION FLOOR PLAN

PLAN NORTH

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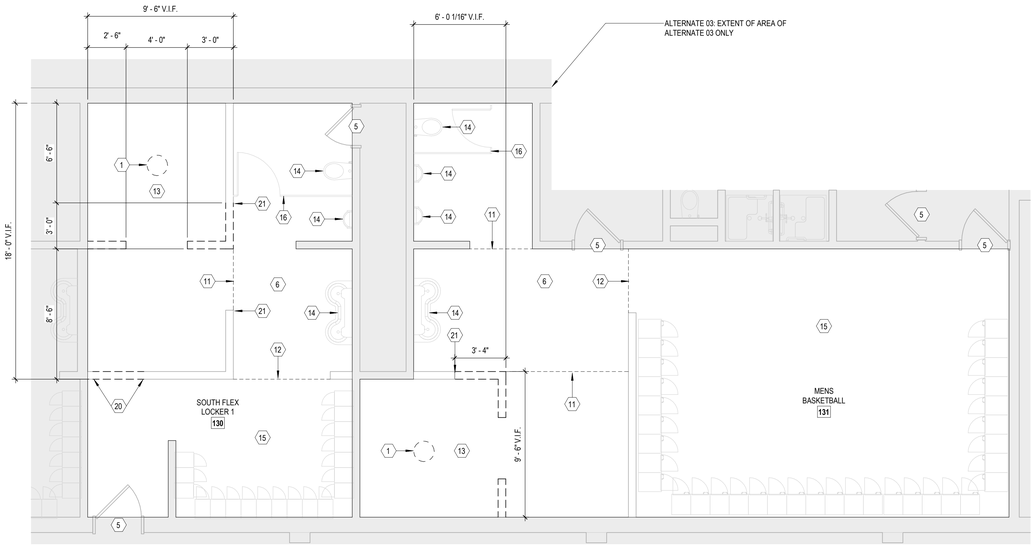
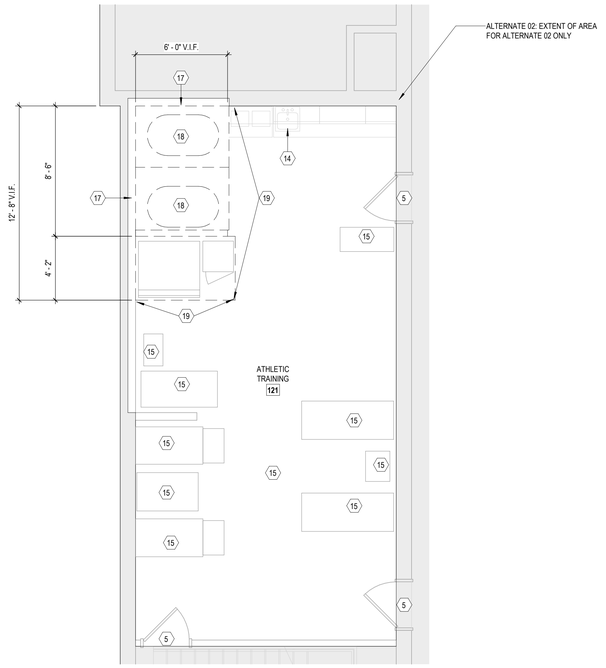
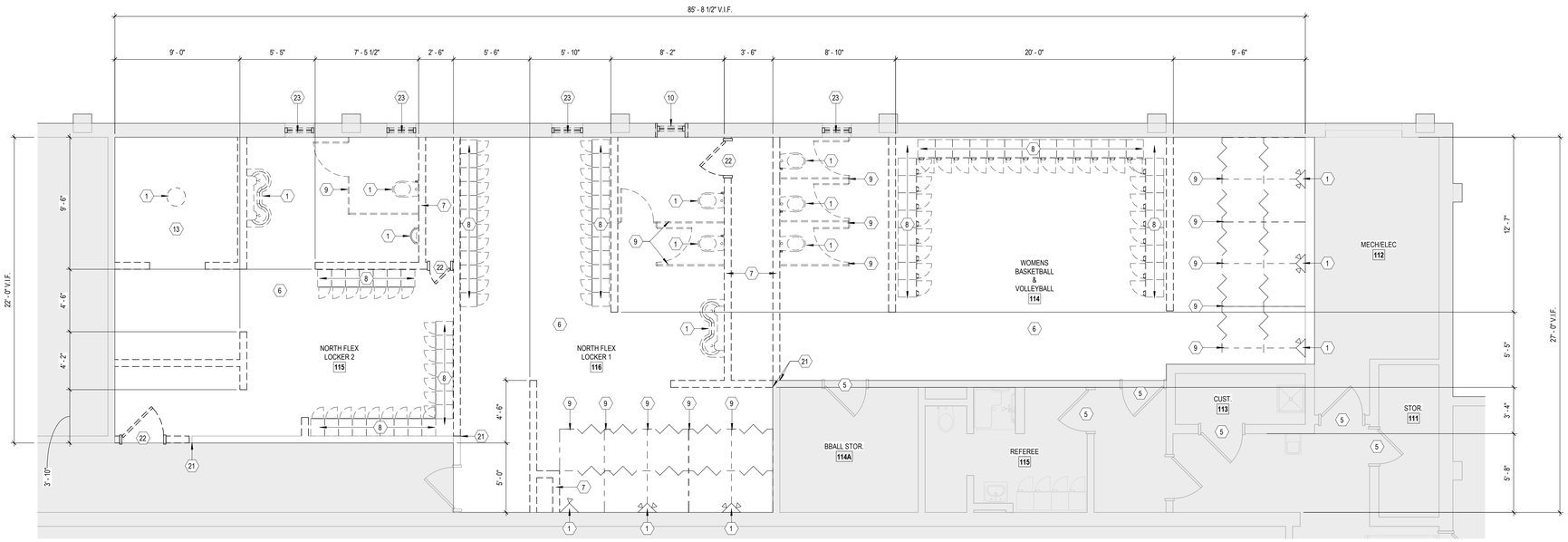


3 ENLARGED DEMOLITION PLAN - SOUTH LOCKERS - ALTERNATE 03
1/4" = 1'-0"



2 ENLARGED DEMOLITION PLAN - ATHLETIC TRAINING - ALTERNATE 02
1/4" = 1'-0"



1 ENLARGED DEMOLITION PLAN - NORTH LOCKERS
1/4" = 1'-0"

GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. DEMOLITION PLAN(S) TO BE USED IN CONJUNCTION WITH THE FLOOR PLAN(S) TO DETERMINE EXACT SCOPE OF DEMOLITION.
2. VERIFY THAT ALL ITEMS INDICATED AS EXISTING ARE CORRECT.
3. PERFORM ALL DEMOLITION WORK WITH MINIMUM DAMAGE TO THE EXISTING WORK TO REMAIN. EXERCISE THE UTMOST CARE WHILE PERFORMING THE DEMOLITION WORK. PROVIDE BARRICADES WHERE REQUIRED TO PROTECT THE PUBLIC.
4. PROTECT GYMNASIUM WOOD FLOOR DURING DEMOLITION AND CONSTRUCTION.
5. DO NOT REMOVE ANY STRUCTURAL COLUMNS, WALLS OR SUPPORTS. CAREFULLY REMOVED INTERIOR PARTITIONS ONLY. IF THERE IS ANY CONCERN WHETHER AN INTERIOR WALL IS BEARING OR NOT, CONTACT ARCHITECT IMMEDIATELY.
6. REFER TO PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS FOR SCOPE OF DEMOLITION UNDER EACH DISCIPLINE.
7. DEMOLITION OF FLOOR SLAB AND TRENCHING FOR NEW PLUMBING SCOPE SHALL BE PATCHED TO ACCOMMODATE NEW FLOORING FINISHES WITHOUT ANY TRANSCRIBING OF CONCRETE IRREGULARITIES.
8. EXISTING FLOORING THAT IS REMOVED SHALL BE AN ACCEPTABLE SUBSTRATE SMOOTHNESS FOR NEW FLOORING.
9. REMOVE AND RETURN TO OWNER ALL WALL MOUNTED ACCESSORIES/SPECIALTIES.
10. REMOVE AND RETURN TO OWNER ALL EQUIPMENT/ FURNISHINGS.
11. PATCH EXISTING WALLS AND TOUCH UP PAINT AS REQUIRED WHERE DEVICES ARE INSTALLED OR RELOCATED.
12. COORDINATE WITH ARCHITECT AND OWNER IF EQUIPMENT, FURNISHINGS OR ACCESSORIES REQUIRE TO BE TEMPORARILY RELOCATED.

SHEET KEYNOTES

NUMBERING IS GROUPED BY TYPE / PHASE OF WORKSHEET OF NON-ARCHITECTURAL ITEMS OR INFORMATIONAL / INSTRUCTIONAL NOTATION. SOME NUMBERS MAY BE SKIPPED ON ANY GIVEN DRAWING SHEET.

1	REMOVE PLUMBING FIXTURES; RE: PLUMBING
5	EXISTING DOOR TO REMAIN; PROTECT DURING DEMOLITION AND CONSTRUCTION
6	REMOVE EXISTING FLOORING FINISHES AND PREPARE FOR NEW FLOORING; RE: FINISH PLANS FOR EXTENT AND TYPE OF NEW FLOORING
7	REMOVE EXISTING CHASE WALL; COORDINATE WITH MEP FOR EXISTING MEP EQUIPMENT
8	REMOVE ALL EXISTING LOCKERS AND RETURN TO OWNER
9	REMOVE EXISTING TOILET/ SHOWER PARTITIONS
10	REMOVE EXISTING WINDOW AND PREPARE OPENING FOR A NEW MECHANICAL LOUVER; RE: MECHANICAL
11	PROTECT AND MAINTAIN EXISTING CEILING/ SOFFIT ABOVE. PATCH AND REPAIR AS REQUIRED DURING NEW CONSTRICTION. RE: REFLECTED CEILING PLANS
12	LINE OF EXTENT BETWEEN EXISTING TO REMAIN FLOORING AND NEW CONSTRUCTION FLOORING; RE: FINISH PLANS
13	REFER TO PLUMBING FOR EXTENT OF PIPING DEMOLITION AT SLAB; RE: PLUMBING
14	EXISTING FIXTURE TO REMAIN, PROTECT DURING DEMOLITION AND NEW CONSTRUCTION
15	EXISTING EQUIPMENT, FURNISHINGS AND ACCESSORIES TO REMAIN, PROTECT DURING DEMOLITION AND NEW CONSTRUCTION. RELOCATE DURING DEMOLITION AND CONSTRUCTION AS REQUIRED
16	TEMPORARY REMOVAL OF TOILET PARTITION MAY BE REQUIRED FOR NEW FLOORING CONSTRUCTION; REMOVE AND REINSTALL IF REQUIRED
17	REMOVE TILE AND PREPARE WALL FOR NEW TILE FINISH. PATCH, REPAIR AND TOUCH UP AS REQUIRED; RE: INTERIOR ELEVATIONS
18	REMOVE AND SAVE FOR REUSE WHIRLPOOL COLD THERAPY TUBS
19	REMOVE RAISED PLATFORM, HALFWALL AND ALL PLUMBING BENEATH RE: PLUMBING FOR EXTENT OF PLUMBING REMOVAL
20	REMOVE PORTION OF EXISTING MASONRY WALL FOR NEW DOOR FRAME, SLAB AND HARDWARE. RE: DOOR SCHEDULE
21	CAREFULLY DEMOLISH PORTIONS OF EXISTING WALL WHERE NEW WALL OR EXPOSED EDGES WILL BE PRESENT AFTER DEMO. ENSURE EXPOSED WALL EDGE IS PLUMB AND SQUARE TO RECEIVE NEW WALL FINISH
22	CAREFULLY REMOVE DOOR FRAME. SLAB, AND HARDWARE FOR REUSE; RETURN TO OWNER IF NOT USED IN NEW CONSTRUCTION PLAN
23	REMOVE EXISTING WINDOW AND PATCH WITH NEW MASONRY INFILL. MATCH INTERIOR AND EXTERIOR MASONRY AND GROUT

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Sheet Name
ENLARGED DEMOLITION FLOOR PLAN

PLAN NORTH

AD-102

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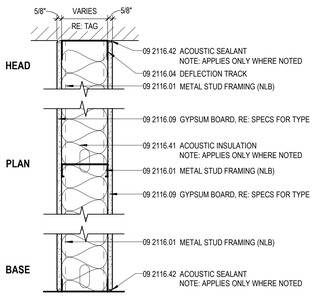
INTERIOR PARTITIONS

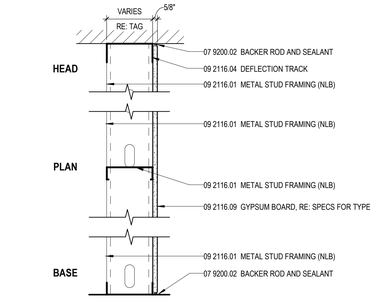


P6a P3 P6a P6

INTERIOR - METAL STUD PARTITION (NR)

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

FIRE RATING ASSEMBLY:	NON-RATED
STC RATING:	45-49 NRCC 816-NV 2-3-81

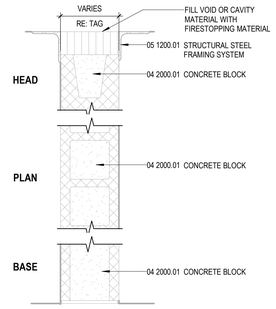


FR3 FR6

INTERIOR - METAL STUD FURRED WALL (NR)

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

FIRE RATING ASSEMBLY:	NON-RATED



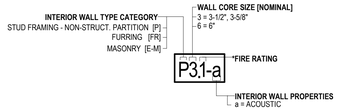
E-M4 E-M6 E-M8

EXISTING INTERIOR CMU BLOCK (NR)

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

FIRE RATING ASSEMBLY:	NON-RATED

WALL TAG SYSTEM ASSEMBLIES IDENTIFIERS: WALLS / PARTITIONS



PARTITION GENERAL NOTES

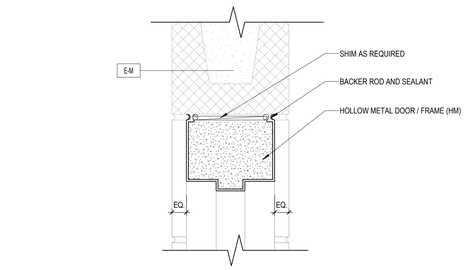
SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. CONTRACTOR TO VERIFY METAL STUD GAUGE AND SPACING WITH MANUFACTURER'S HEIGHT LIMIT REQUIREMENTS.
2. PROVIDE CONTROL JOINTS NO MORE THAN 30'-0" O.C. FOR ALL GYPSUM BOARD WALL CONSTRUCTION. RE: DETAIL AND INTERIOR ELEVATIONS FOR CRITICAL LOCATIONS.
3. AT FURRED OUT WALLS, BRACE THE STUDS BACK TO STRUCTURE AT 24" O.C. VERTICALLY.
4. IN TOILET ROOMS - INTERIOR GYP BOARD AND/OR CEMENTITIOUS BACKER BOARD IS TO THE FINISHED GYPSUM BOARD CEILINGS, UNLESS NOTED BY PARTITION HEIGHT DESIGNATION TO EXTEND TO STRUCTURE. GYPSUM BOARD ON THE OUTSIDE OF THE ROOM IS TO THE UNDERSIDE OF STRUCTURE ABOVE. CONTINUE INSULATION TO THE UNDERSIDE OF STRUCTURE ABOVE. ON WALLS THAT HAVE CERAMIC TILE WAINSCOT, THE CEMENTITIOUS BACKER BOARD EXTENDS ONLY TO THE TOP COURSE OF TILE WITH WATER RESISTANT GYP BOARD ABOVE.
5. IN LOCKER ROOMS - ALL INTERIOR GYP BOARD ASSEMBLIES TO BE IMPACT RESISTANT.
6. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.

DOOR/HARDWARE GENERAL NOTES

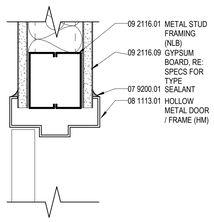
SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. REFER TO ARCHITECTURAL GENERAL NOTES, DOOR SCHEDULES, HARDWARE SCHEDULES, SPECIFICATIONS, AND ALL APPLICABLE STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS FOR COORDINATION AND ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DOOR OPENINGS, FRAME CONDITIONS, CLEARANCES, RATINGS, AND HARDWARE PRIOR TO REMOVAL, REUSE, OR INSTALLATION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.
3. UNLESS NOTED OTHERWISE, EXISTING DOORS, FRAMES, AND HARDWARE SCHEDULED FOR REMOVAL SHALL BE CAREFULLY REMOVED WITHOUT DAMAGE AND SALVAGED FOR REUSE OR OWNER STORAGE. DO NOT REUSE DAMAGED COMPONENTS. DOORS SCHEDULED FOR REUSE SHALL BE CLEANED, OILED, ADJUSTED, REHUNG PLUMB AND SQUARE, AND PAINTED UNLESS NOTED OTHERWISE.
4. EXISTING DOORS AND FRAMES SCHEDULED TO REMAIN SHALL BE PAINTED TO MATCH ADJACENT WALL FINISHES, UNLESS NOTED OTHERWISE, AND PROVIDED WITH NEW HARDWARE UNLESS NOTED OTHERWISE.
5. PAINT ALL EXISTING DOORS SCHEDULED FOR REUSE, UNLESS NOTED OTHERWISE. PAINT ALL INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES IN GYPSUM BOARD WALLS TO MATCH ADJACENT WALL COLOR, UNO PAINT TRIM AT DOOR LITE KITS TO MATCH DOOR FRAME FINISH.
6. PROVIDE NEW DOORS AND FRAMES AS INDICATED. UNO, PROVIDE FULL-HEIGHT DOORS AND FRAMES AT WIDTHS SHOWN. ALL NEW DOORS SHALL BE 1-3/4" THICK, SOLID-CORE, PAINT-GRADE. ALL NEW HOLLOW METAL FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL FINISHES, UNLESS NOTED OTHERWISE.
7. CLEAN, OIL, AND ADJUST ALL DOORS AND HARDWARE PRIOR TO OWNER OCCUPANCY. COORDINATE ALL KEYING REQUIREMENTS, INCLUDING MASTER KEYING, REKEYING OF EXISTING HARDWARE, AND OWNER KEY SYSTEMS, PRIOR TO HARDWARE ORDERING. PROVIDE DOOR CLOSERS, STOPS, SILENCERS, SEALS, AND OTHER INCIDENTAL HARDWARE REQUIRED FOR PROPER OPERATION, LIFE SAFETY COMPLIANCE, AND PROTECTION OF ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE.
8. PROVIDE DOOR AND FRAME PREPARATION FOR ACCESS CONTROL HARDWARE AS REQUIRED. COORDINATE HARDWARE REQUIRING ELECTRICAL POWER (LINE OR LOW VOLTAGE) WITH THE ACCESS CONTROL SUPPLIER, MANUFACTURER, INSTALLER, OR VENDOR. ACCESS CONTROL DEVICES AND INSTALLATION ARE BY THE TENANT'S SECURITY VENDOR UNLESS NOTED OTHERWISE. COORDINATE ACCESS CONTROL HARDWARE FINISHES WITH THE TENANT'S SECURITY VENDOR.
9. INSTALL FIRE-RATED DOORS, FRAMES, AND HARDWARE IN ACCORDANCE WITH APPLICABLE CODES AND LISTING REQUIREMENTS. DO NOT MODIFY RATED ASSEMBLIES WITHOUT WRITTEN APPROVAL. MAINTAIN EXISTING FIRE AND SMOKE RATINGS AT DOORS SCHEDULED TO REMAIN AND REPLACE DAMAGED OR NONCOMPLIANT RATED COMPONENTS AS REQUIRED.
10. COORDINATE DOOR HARDWARE, CLEARANCES, MOUNTING HEIGHTS, AND OPERATING FORCES TO COMPLY WITH APPLICABLE ADA/ANSI ACCESSIBILITY STANDARDS AND CODES, UNLESS NOTED OTHERWISE. HARDWARE LOCATIONS AND MOUNTING HEIGHTS SHOWN ARE DIAGRAMMATIC; FINAL INSTALLATION SHALL COMPLY WITH MANUFACTURER REQUIREMENTS, ACCESSIBILITY STANDARDS, AND APPLICABLE CODES.
11. LOCATE TYPICAL HINGE SIDE DOOR JAMB 4" FROM FINISH WALL TO EDGE OF DOOR OPENING. MAINTAIN A MINIMUM FINISHED CLEARANCE OF 18" TO THE STRIKE SIDE JAMB ON THE PULL SIDE OF ALL PUBLIC ACCESSIBLE DOORS.



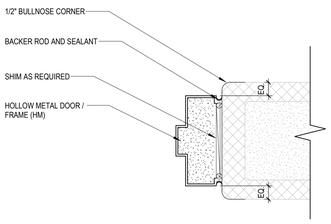
B2 INTERIOR HM DOOR HEAD AT E-M

3" = 1'-0"



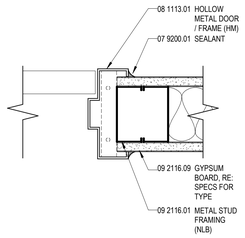
B1 INTERIOR HM DOOR HEAD

3" = 1'-0"



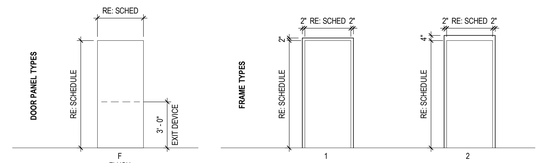
A2 INTERIOR HM DOOR JAMB AT E-M

3" = 1'-0"



A1 INTERIOR HM DOOR JAMB

3" = 1'-0"



DOOR LEAF & FRAME ELEVATION TYPES

DOOR AND FRAME SCHEDULE

MARK	PAIR	DOOR SIZE W	DOOR SIZE HT	DOOR MATL	DOOR EL	FRAME MATL	FRAME EL	DETAIL HEAD	DETAIL JAMB	NOTES
114B		2' - 6"	7' - 0"	EXISTNG	EXISTNG	EXISTNG	EXISTNG	A101.1/B1	A101.1/A1	RE-USE EXISTING CHASE ACCESS DOOR AND HARDWARE
115		3' - 0"	7' - 0"	EXISTNG	EXISTNG	EXISTNG	EXISTNG	A101.1/B1	A101.1/A1	RE-USE EXISTING LOCKER ROOM ENTRANCE DOOR AND HARDWARE
115A		3' - 0"	7' - 0"	WD	F	HM	1	A101.1/B1	A101.1/A1	NEW
131B		3' - 0"	7' - 0"	WD	F	HM	1	A101.1/B1	A101.1/A1	ALTERNATE 03: NEW
153A		3' - 0"	7' - 0"	WD	F	HM	2	A101.1/B2	A101.1/B1	ALTERNATE 03: NEW

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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD

Sheet Name
PARITION, DOOR & FRAME INFORMATION

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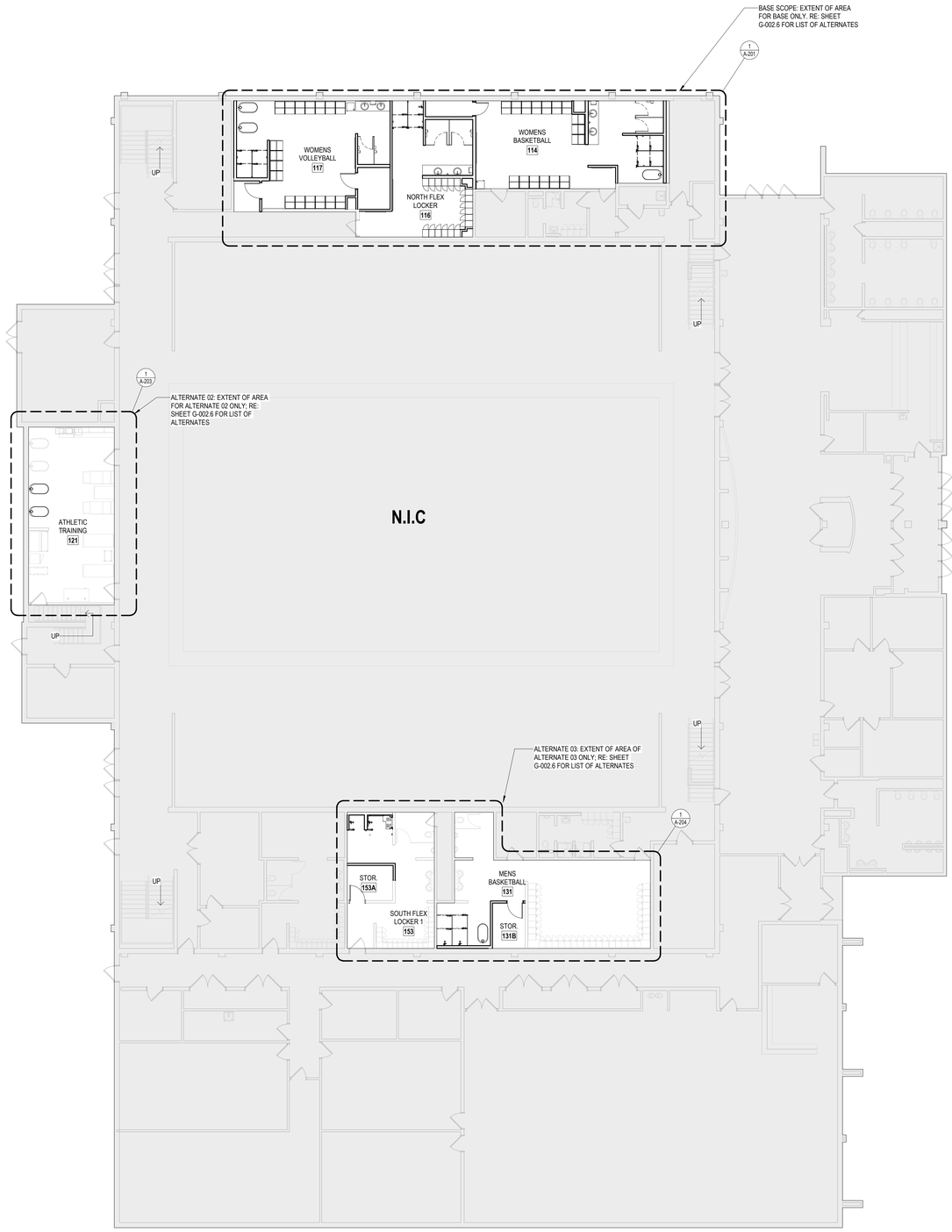

1 OVERALL FLOOR PLAN
3/32" = 1'-0"

CONSTRUCTION GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. INTERIOR BUILDING DIMENSIONS ARE TO GRID CENTERLINE AND FACE OF STUD FRAMING AT NEW CONSTRUCTION AND FROM FACE OF EXISTING BUILDING ELEMENT TO FACE OF STUD, UNO.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORIES. NO EXCEPTIONS.
3. ALL INTERIOR FRAMED WALL ASSEMBLIES TO BE TYPE P3 TO BOTTOM OF DECK, UNO.
4. ALL INTERIOR MASONRY WALL ASSEMBLIES ARE EXISTING, UNO.
5. OBTAIN CLARIFICATION FROM BUILDING OWNER REGARDING AVAILABILITY OF PRE-STOCKED OR INVENTORIED BUILDING MATERIALS (IF ANY) THAT MAY BE CONSIDERED FOR THIS PROJECT.
6. HATCHED AREA ON PLAN DRAWING IS "NOT IN CONTRACT". BASE BUILDING SPACES AND CONSTRUCTION (EXIT STAIRS, SHAFTS, ELECTRICAL TOILETS, ETC.) ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE.
7. WHERE THE DESIGN INTENT CANNOT BE DETERMINED FROM CONSTRUCTION DOCUMENTS, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. PATCH AND REPAIR EXISTING PARTITIONS WHERE DEMOLITION HAS OCCURRED, INCLUDING THE REMOVAL OF WALL OUTLETS, WALL BASE, BLANK COVER PLATES, AND THERMOSTATS. REPAIR GYPSUM BOARD AND PREPARE FOR SPECIFIED FINISH.
9. WHERE NEW ELEMENTS ARE ADJACENT TO EXISTING ELEMENTS, ALIGN FINISHED SURFACES, UNO.
10. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.
11. NOTIFY ARCHITECT OF ANY AREAS WHERE DIMENSIONAL REQUIREMENTS CANNOT BE MET OR EXCEED DIMENSIONS SHOWN FOR CLARIFICATION.
12. PAINT ALL EXPOSED DECK, PIPES, DUCTWORK, AIR DIFFUSERS, AND GRILLS, AND ACCESS DOORS TO MATCH COLOR OF ADJACENT CEILING OR WALL SURFACE, UNO.
13. ALL DIMENSIONS ON FINISH PLANS ARE TO FINISHED FACE OF MATERIAL, UNO.
14. PAINT ALL COUNTERTOP SUPPORT BRACES TO MATCH ADJACENT WALL SURFACE UNLESS FACTORY FINISHED.
15. PAINT ALL INTERIOR HOLLOW METAL DOOR FRAMES IN GYP WALL BOARD TO MATCH ADJACENT WALL COLOR, UNO. RE: DOOR SCHEDULE
16. REFER TO ELEVATIONS AND REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION RELATED TO FINISHES AND EXTENTS.
17. TRENCHING FOR NEW PLUMBING SCOPE SHALL BE PATCHED TO ACCOMMODATE NEW FLOORING FINISHES WITHOUT ANY TRANSCRIBING OF CONCRETE IRREGULARITIES.
18. ALL FLOORING MATERIALS AND TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION UNO.
19. CONTRACTOR TO SUBMIT INSTALLATION PATTERN DRAWINGS FOR ARCHITECT'S APPROVAL FOR ALL APPLICABLE FINISHES (INCLUDING BUT NOT LIMITED TO: CARPET, TILE, FLUID APPLIED FLOORING).
20. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND KNEE SPACE, UNO
21. FLOORING SUBCONTRACTORS TO FIELD VERIFY ALL DIMENSIONS. SMALL FLOORING SLIVERS ALONG PERIMETER WILL NOT BE ACCEPTED. COORDINATE WITH ARCHITECT AS REQUIRED.
22. PROVIDE CORNER GUARDS AT ALL GYPSUM BOARD OUTSIDE CORNERS IN PUBLIC SPACES, UNO.
23. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
24. THIS PLAN SHOWS LOCATIONS OF ITEMS IN ARCHITECTURALLY SIGNIFICANT SPACES ONLY. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL ITEMS NOT SHOWN.
25. CENTER ALL CEILING MOUNTED ITEMS LOCATED IN ACT, GYPSUM BOARD SOFFITS / CEILINGS AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
26. ALL CEILING ELEVATION REFERENCES ARE RELATIVE TO FINISHED FLOOR SLAB BELOW.
27. CONTRACTOR TO FIELD VERIFY CONDITIONS ABOVE FINISHED CEILING AND CEILING HEIGHT RESTRICTIONS. COORDINATE WITH ARCHITECT.
28. ALL NEW AND EXISTING TO REMAIN GYP. BOARD CEILINGS, SOFFITS, AND HEADERS TO BE PAINTED EP-1 UNO
29. ALL EXPOSED CEILING STRUCTURE AND DECK TO BE PAINTED, UNO.

CONSTRUCTION PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW STUD WALL FRAMING - TO BOTTOM OF CEILING
- AREA NOT IN CONTRACT (N.I.C.)
- EXISTING DOOR TO REMAIN
- NEW DOOR WITH DOOR TAG OR EXISTING DOOR TO BE REUSED; RE: DOOR SCHEDULE
- 1 — EQUIPMENT / ACCESSORY / MATERIAL TAG (ALSO ON INTERIOR ELEVATIONS)
- XX.Xx — NEW WALL PARITION TAG - MASONRY/GYPSUM TO BOTTOM OF METAL DECK
- XX.Xx — NEW WALL PARTITION TAG MASONRY/GYPSUM TO BOTTOM OF CEILING
- 1 — SYSTEM ASSEMBLY TYPE: FLOORS, WALLS, CEILINGS, AND ROOFS

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LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	BD
Checked By:	Checker

Sheet Name
LEVEL 1 OVERALL FLOOR PLAN

PLAN NORTH

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ACCESSORY GENERAL NOTES

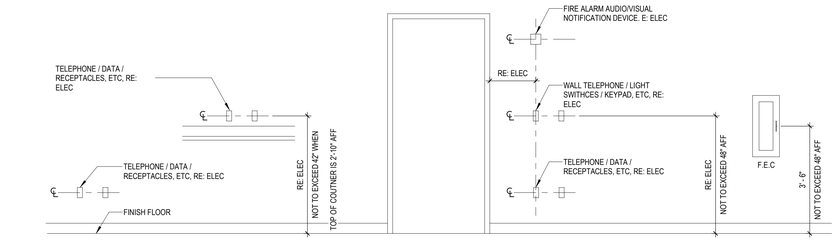
SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. REFER TO ARCHITECTURAL ENLARGED PLANS, FINISH PLANS, AND REFLECTED CEILING PLANS IN COORDINATION WITH ALL CONSULTANT DRAWINGS FOR COMPLETE REQUIREMENTS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING POWER AND COMMUNICATION DEVICES TO REMAIN, RELOCATE, OR REMOVE, WHETHER OR NOT SHOWN ON ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.
3. ALL POWER, COMMUNICATION, AND LOW-VOLTAGE DEVICES SHOWN ARE NEW UNLESS NOTED AS EXISTING TO REMAIN OR TO BE REMOVED.
4. UNLESS NOTED OTHERWISE, INSTALL WALL-MOUNTED POWER AND COMMUNICATION DEVICES AT +18" AFF TO CENTERLINE, VERTICALLY ORIENTED. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WHERE DEVICES ARE GROUPED OR INTEGRATED WITH FURNITURE, MILLWORK, EQUIPMENT, OR ACCESSORIES.
5. PROVIDE CONTINUOUS SOLID BLOCKING IN WALLS FOR ALL WALL-MOUNTED EQUIPMENT, DEVICES, FURNITURE SYSTEMS, ACCESSORIES, AND TECHNOLOGY COMPONENTS, NO EXCEPTIONS.
6. COORDINATE FINAL LOCATIONS, QUANTITIES, AND ROUGH-IN REQUIREMENTS FOR ALL SHIELD LOCKER SYSTEM WITH TENANT'S LOCKER VENDOR PRIOR TO ROUGH-IN.
7. ALL UPS-BACKED RECEPTACLES SHALL BE CLEARLY IDENTIFIED WITH PERMANENTLY AFFIXED LABELS. COORDINATE FINAL LABELING REQUIREMENTS WITH TENANT'S IT PROVIDER.
8. COORDINATE APPLIANCE POWER, DATA, PLUMBING CONNECTIONS, CLEARANCES, VENTILATION, AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS, MILLWORK SHOP DRAWINGS, AND EQUIPMENT SPECIFICATIONS.
9. COORDINATE POWER AND DATA FOR WALL-MOUNTED EQUIPMENT AND SPECIALTY DEVICES, TO ALIGN WITH ARCHITECTURAL ELEVATIONS, FURNITURE LAYOUTS, AND MILLWORK.
10. REPAIR, PATCH, AND REFINISH ALL WALL, CEILING, AND FLOOR SURFACES IMPACTED BY REMOVAL, RELOCATION, OR ABANDONMENT OF POWER AND COMMUNICATION DEVICES TO MATCH ADJACENT FINISHES.
11. PROVIDE DEVICE FINISHES TO MATCH ARCHITECTURAL STANDARDS. UNLESS NOTED OTHERWISE, PROVIDE WHITE FINISH FOR RECEPTACLES, SWITCHES, DIMMERS, DATA PLATES, THERMOSTATS, AND SIMILAR DEVICES.
12. COORDINATE LOCATIONS OF LIFE-SAFETY DEVICES, EXIT SIGNAGE, EMERGENCY LIGHTING, THERMOSTATS, SPEAKERS, SPRINKLER HEADS, AND DIFFUSERS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF CONFLICTS WITH DESIGN INTENT.
13. WHERE PERMITTED BY CODE AND AHJ, PROVIDE LIFE-SAFETY AND LOW-PROFILE DEVICES IN FINISHES TO MATCH ADJACENT CONSTRUCTION IN CRITICAL DESIGN AREAS. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
14. NOTIFY ARCHITECT OF ANY CONDITIONS WHERE REQUIRED POWER, DATA, OR COMMUNICATION CLEARANCES CANNOT BE ACHIEVED PRIOR TO CONSTRUCTION.
15. ALIGN FINISHED SURFACES WHERE NEW CONSTRUCTION ABUTS EXISTING UNLESS NOTED OTHERWISE.
16. CONFIRM AVAILABILITY OF ANY OWNER PRE-STOCKED OR INVENTORIED MATERIALS.
17. WHERE DESIGN INTENT IS UNCLEAR, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO CONSTRUCTION.
18. NOTIFY ARCHITECT IMMEDIATELY IF DIMENSIONAL OR COORDINATION REQUIREMENTS CANNOT BE MET.

EQUIPMENT & ACCESSORIES

MARK	ACCESSORY	MANUFACTURER	MODEL NO.	INFRASTRUCTURE REQUIREMENTS				RESPONSIBILITY	NOTES
				BLOCKING	PLUMBING	POWER	DATA		
EQ-1	REFRIGERATOR			NO	NO	YES	NO	OFOI	PROVIDE POWER AT PROPOSED FRIDGE LOCATIONS
EQ-2	WHIRLPOOL COLD TUB	WHITEHALL	WHS-90-SL & WHTA-25-M	NO	YES	YES	NO	CFCI	INCLUDES WHIRLPOOL TUB AND MOBILE TURBINE
EQ-3	LCS DELUXE PORCELAIN WHITEBOARD 72" X 48"	CLARIDGE	LCS2044R	YES	NO	NO	NO	CFCI	COLOR: 100 WHITE; INCLUDE MAGNETIC STADIUM MARKER CADDY MGM-C1-S
EQ-4	TA-WALL 48" X 48"	KOROSEAL		YES	NO	NO	NO	CFCI	CONFIRM FINAL LOCATION WITH OWNER
EQ-5	DAKTRONIC CLOCK	DAKTRONIC	TI-3031	YES	NO	YES	YES	OFCI	PROVIDE ALLOWANCE FOR INSTALLATION OF NINE DEVICES; FINAL LOCATIONS AND MOUNTING HEIGHT TO BE DERTMINED BY OWNER

TYPICAL DEVICE MOUNTING



TYPICAL DEVICE MOUNTING

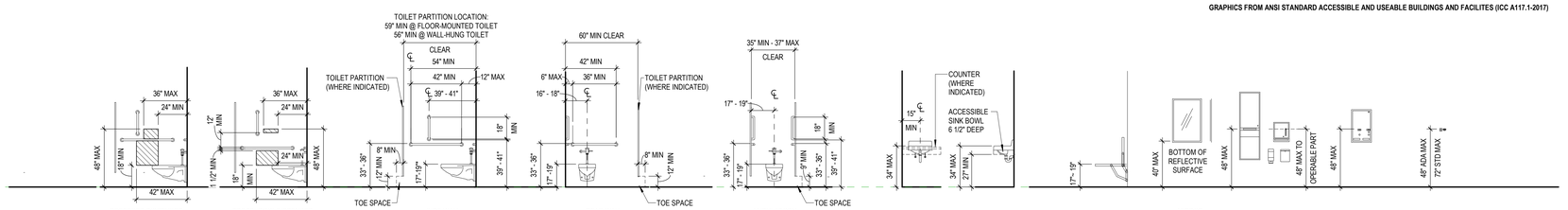
1/2" = 1'-0"

TOILET BATH ACCESSORIES

MARK	ACCESSORY	MANUFACTURER	MODEL NO.	MOUNTING HEIGHT	NOTES
TA-1	CLASSIC SERIES ® SURFACE-MOUNTED SOAP DISPENSAR	BOBRICK	B-2111	REFER TO MOUNTING HEIGHT SCHEDULE	
TA-2	WELDED FRAME MIRROR; 24" X 36"	BOBRICK	B-290 2436	REFER TO MOUNTING HEIGHT SCHEDULE	
TA-3	DOUBLE ROBE HOOK	BOBRICK	B-672 SERIES	REFER TO MOUNTING HEIGHT SCHEDULE	
TA-4	AUTOMATIC, UNIVERSAL ROLL PAPER TOWEL DISPENSER	BOBRICK	B-2974	REFER TO MOUNTING HEIGHT SCHEDULE	
TA-5	SANITARY NAPKIN DOSPOSAL	BOBRICK	B-270	REFER TO MOUNTING HEIGHT SCHEDULE	
TA-6	MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	B-4288	REFER TO MOUNTING HEIGHT SCHEDULE	
TA-7	PRISM SOLID SURFACE SHOWER PARTITIONS	INPRO	RE: SPEC SECTION 10 2113	FLOOR MOUNTED OVERHEAD-BRACED SHOWER PARTITIONS	NO DOOR; PANEL SIZE: 68" H X 63" W; PILASTER: 3" W X 86" H; COLOR: FROSTED WHITE P9711
TA-8	TOILET PARTITIONS	INPRO	RE: SPEC SECTION 10 2113	FLOOR MOUNTED OVERHEAD-BRACED SHOWER PARTITIONS	DOOR SIZE: 32" W X 68" H; PANEL SIZE: 68" W X 63"; PILASTER: 3" W; COLOR: FROSTED WHITE P9711
TA-9	SHOWER CURTAIN SYSTEM 36" KIT	INPRO	ENSBSCRTNKIT-36	REFER TO ELEVATIONS	<varies>
TA-10	SHOWER CURTAIN SYSTEM 60" KIT	INPRO	ENSBSCRTNKIT-60	REFER TO ELEVATIONS	ALTERNATE 3
TA-11	TWO-WALL GRAB BAR 24" X 36"	BOBRICK	B-58616.99	REFER TO MOUNTING HEIGHT SCHEDULE	1-1/4" DIAMETER; ALTERNATE 3
TA-12	FOLDING L-SHAPE PHENOLIC SEAT WITH LEGS - RIGHT	INPRO	DSGBFLDSST-RH	REFER TO MOUNTING HEIGHT SCHEDULE	COLOR: WHITE; ALTERNATE 3

TOILET AND BATH ACCESSORIES

GRAPHICS FROM ANSI STANDARD ACCESSIBLE AND USEABLE BUILDINGS AND FACILITES (ICC A117.1-2017)



NOTE: PROVIDE FRT WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORIES

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LICENSED ARCHITECT
BRANDON A. DARLE
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Sheet Name
ACCESSORIES INFORMATION

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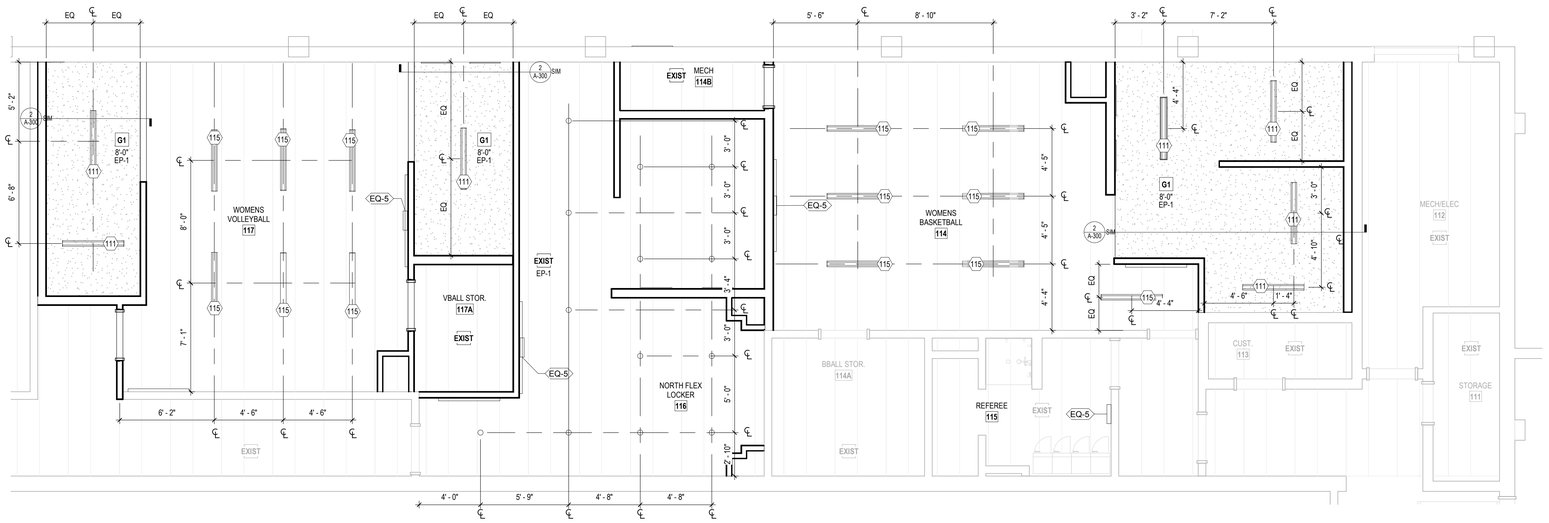
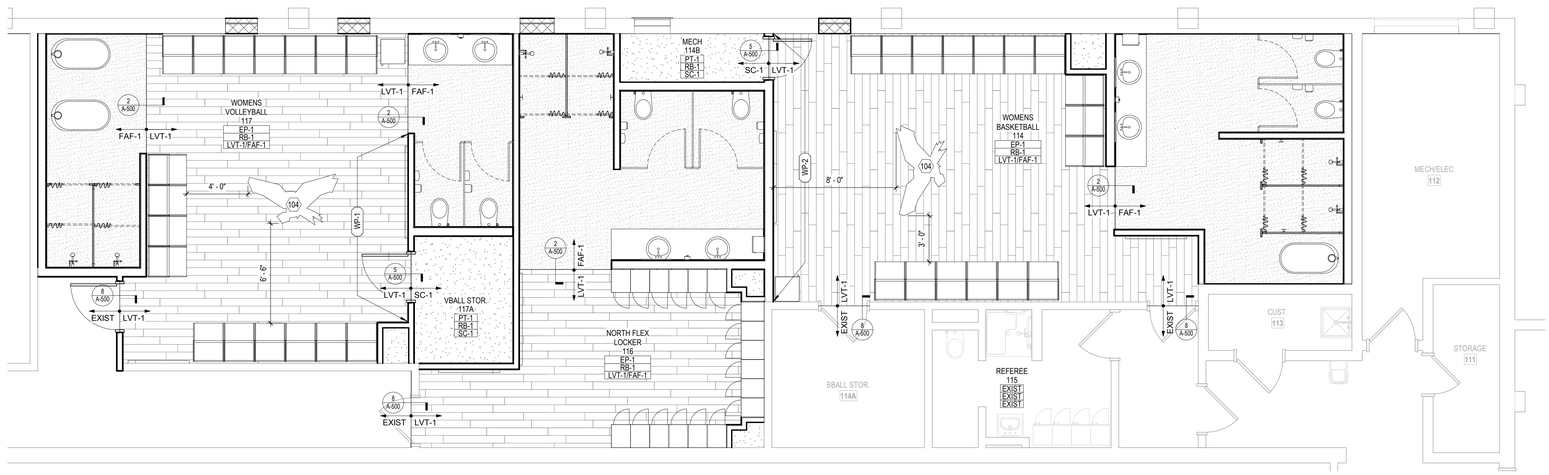


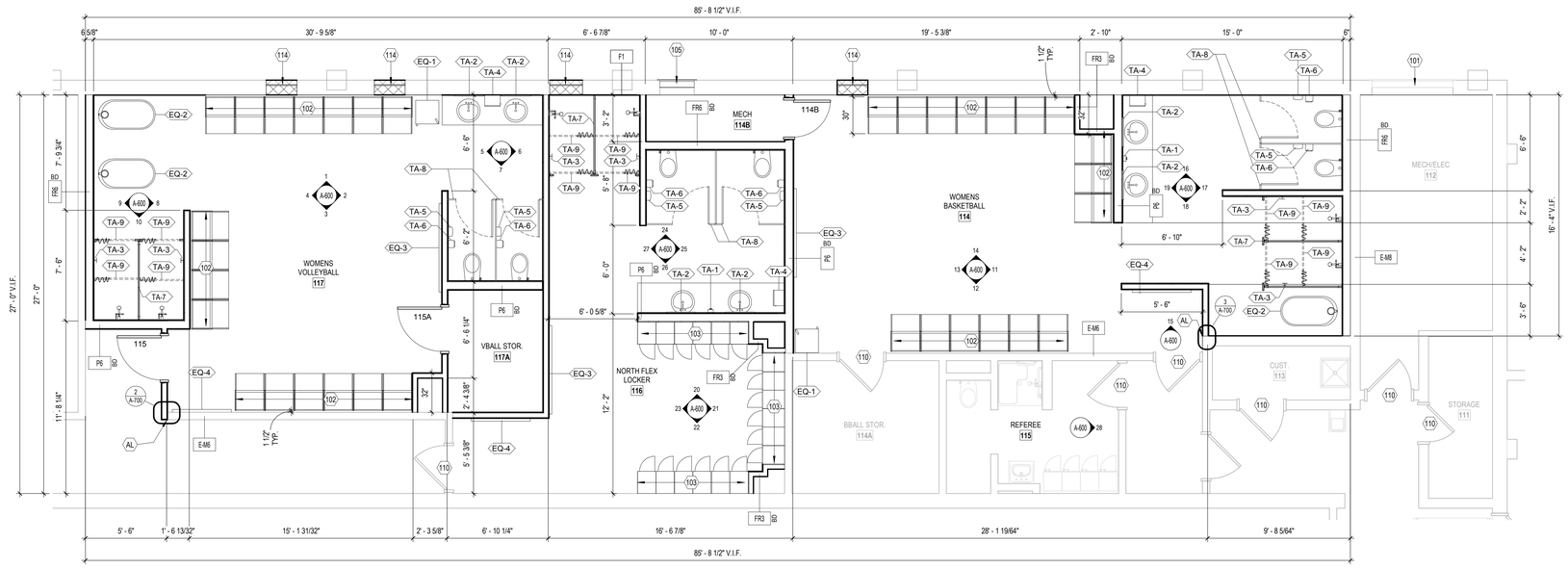
3 ENLARGED REFLECTED CEILING PLAN - NORTH LOCKERS

1/4" = 1'-0"



2 ENLARGED FINISH PLAN - NORTH LOCKERS

1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - NORTH LOCKERS

1/4" = 1'-0"

SHEET KEYNOTES

NUMBERING IS GROUPED BY TYPE / PHASE OF WORKSHEET OF NON-ARCHITECTURAL ITEMS OR INFORMATIONAL / INSTRUCTIONAL NOTATION. SOME NUMBERS MAY BE SKIPPED ON ANY GIVEN DRAWING SHEET.

101 EXISTING MECHANICAL LOUVER; RE: MECHANICAL
102 SHIELD LOCKER; OFCI. PROVIDE ALL NECESSARY UTILITY REQUIREMENTS AND MOUNTING REQUIRMENTS
103 EXISTING LOCKER; OFCI
104 WATER JET CUT LVT IN THE SHAPE OF THE THUNDER BIRD LOGO; BASE BID ONLY; FILE FRO MANUFACTURER WILL BE PROVIDED TO INSTALLER FOR EXACT CUTOUT INFORMATION
105 NEW LOUVER IN EXISTING WINDOW OPENING; RE: MECHANICAL
110 EXISTING DOOR TO REMAIN; PROTECT DURING DEMOLITION AND CONSTRUCTION
111 RECESSED LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
114 INFILL WITH NEW MASONRY UNITS. MATCH INTERIOR AND EXTERIOR MASONRY, GROUT AND FINISH
115 PENDANT LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL

CONSTRUCTION GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. INTERIOR BUILDING DIMENSIONS ARE TO GRID CENTERLINE AND FACE OF STUD FRAMING AT NEW CONSTRUCTION AND FROM FACE OF EXISTING BUILDING ELEMENT TO FACE OF STUD, UNO.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORIES. NO EXCEPTIONS.
3. ALL INTERIOR FRAMED WALL ASSEMBLIES TO BE TYPE P3 TO BOTTOM OF DECK, UNO.
4. ALL INTERIOR MASONRY WALL ASSEMBLIES ARE EXISTING, UNO.
5. OBTAIN CLARIFICATION FROM BUILDING OWNER REGARDING AVAILABILITY OF PRE-STOCKED OR INVENTORIED BUILDING MATERIALS (IF ANY) THAT MAY BE CONSIDERED FOR THIS PROJECT.
6. HATCHED AREA ON PLAN DRAWING IS "NOT IN CONTRACT". BASE BUILDING SPACES AND CONSTRUCTION (EXIT STAIRS, SHAFTS, ELECTRICAL, TOILETS, ETC.) ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE.
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9. WHERE NEW ELEMENTS ARE ADJACENT TO EXISTING ELEMENTS, ALIGN FINISHED SURFACES, UNO.
10. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.
11. NOTIFY ARCHITECT OF ANY AREAS WHERE DIMENSIONAL REQUIREMENTS CANNOT BE MET OR EXCEED DIMENSIONS SHOWN FOR CLARIFICATION.
12. PAINT ALL EXPOSED DECK, PIPES, DUCTWORK, AIR DIFFUSERS, AND GRILLS, AND ACCESS DOORS TO MATCH COLOR OF ADJACENT CEILING OR WALL SURFACE, UNO.
13. ALL DIMENSIONS ON FINISH PLANS ARE TO FINISHED FACE OF MATERIAL, UNO.
14. PAINT ALL COUNTERTOP SUPPORT BRACES TO MATCH ADJACENT WALL SURFACE UNLESS FACTORY FINISHED.
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22. PROVIDE CORNER GUARDS AT ALL GYPSUM BOARD OUTSIDE CORNERS IN PUBLIC SPACES, UNO.
23. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
24. THIS PLAN SHOWS LOCATIONS OF ITEMS IN ARCHITECTURALLY SIGNIFICANT SPACES ONLY. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL ITEMS NOT SHOWN.
25. CENTER ALL CEILING MOUNTED ITEMS LOCATED IN ACT, GYPSUM BOARD SOFFITS / CEILINGS AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
26. ALL CEILING ELEVATION REFERENCES ARE RELATIVE TO FINISHED FLOOR SLAB BELOW.
27. CONTRACTOR TO FIELD VERIFY CONDITIONS ABOVE FINISHED CEILING AND CEILING HEIGHT RESTRICTIONS, COORDINATE WITH ARCHITECT.
28. ALL NEW AND EXISTING TO REMAIN GYP. BOARD CEILINGS, SOFFITS, AND HEADERS TO BE PAINTED EP-1 UNO
29. ALL EXPOSED CEILING STRUCTURE AND DECK TO BE PAINTED, UNO.

CONSTRUCTION PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW STUD WALL FRAMING - TO BOTTOM OF CEILING
- AREA NOT IN CONTRACT (N.I.C.)
- EXISTING DOOR TO REMAIN
- 200 — NEW DOOR WITH DOOR TAG OR EXISTING DOOR TO BE REUSED; RE: DOOR SCHEDULE
- 1 — EQUIPMENT / ACCESSORY / MATERIAL TAG (ALSO ON INTERIOR ELEVATIONS)
- XX.Xx 60 — NEW WALL PARITION TAG - MASONRY/GYPSUM TO BOTTOM OF METAL DECK
- XX.Xx 60 — NEW WALL PARTITION TAG MASONRY/GYPSUM TO BOTTOM OF CEILING
- 1 — SYSTEM ASSEMBLY TYPE: FLOORS, WALLS, CEILINGS, AND ROOFS

CEILING TAG IDENTIFIER AND TYPE LEGEND

- XX — CEILING TYPE, RE: ASSEMBLIES
- X' - X" — CEILING HEIGHT ABOVE LEVEL
- XX — SPECIAL CEILING FINISH, RE: FINISH LEGEND
- G1 — GYPSUM BOARD CEILING/SOFFIT, RE: ASSEMBLIES

CEILING SYMBOLS LEGEND

REFER TO ENGINEERING MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION

- DOWNLIGHT LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
- LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
- EXISTING CONCRETE T BEAMS

FINISH LEGEND

ROOM NAME
ROOM NUMBER

- WF / BF / FF — WALL FINISH MATERIAL / BASE FINISH MATERIAL / FLOOR FINISH MATERIAL
- XXX — FINISH NOTE, WHERE OCCURS
- X-# — FINISH MATERIAL TAG
- XXX — FINISH NOTE, WHERE OCCURS
- FINISH MATERIAL/PATTERN DIRECTION
- X-# X-# — FINISH MATERIAL TRANSITION
- TME — TO MATCH EXISTING

MOA ARCHITECTURE
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CASPER, WYOMING 82601
307.268.9890
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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD
Copyright:	

Sheet Name
ENLARGED PLAN - NORTH LOCKERS

PLAN NORTH

A-201

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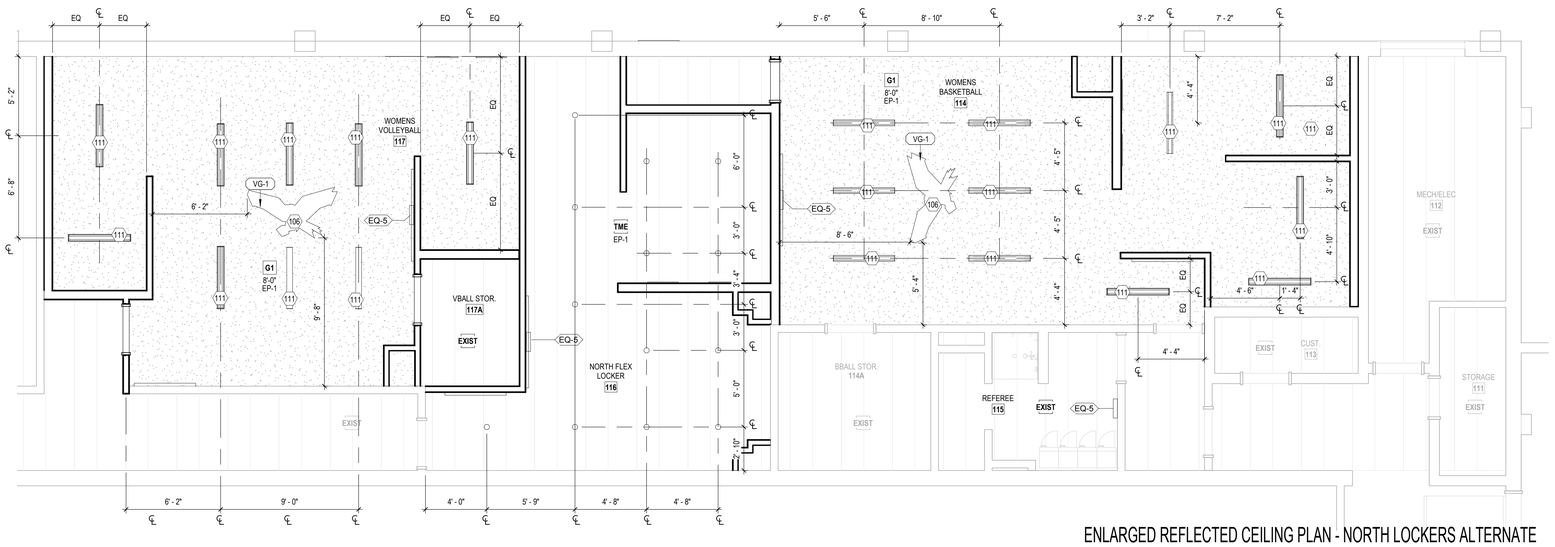
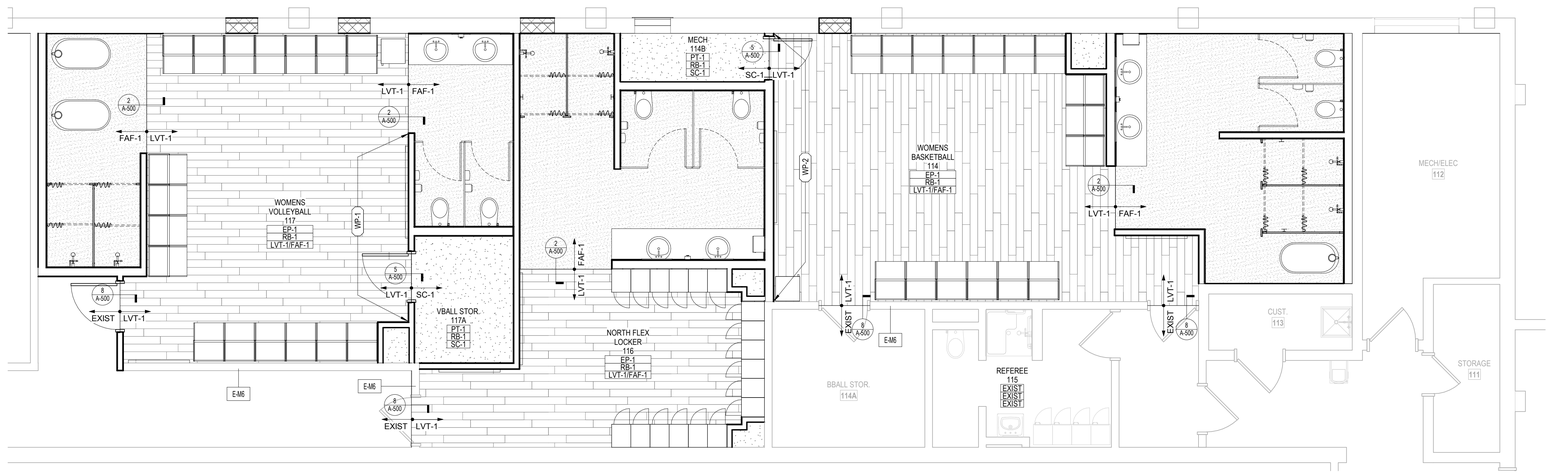


2 ENLARGED REFLECTED CEILING PLAN - NORTH LOCKERS ALTERNATE 01

1/4" = 1'-0"



1 ENLARGED FINISH PLAN - NORTH LOCKERS ALTERNATE 01

1/4" = 1'-0"

SHEET KEYNOTES

NUMBERING IS GROUPED BY TYPE / PHASE OF WORKSHEET OF NON-ARCHITECTURAL ITEMS OR INFORMATIONAL / INSTRUCTIONAL NOTATION. SOME NUMBERS MAY BE SKIPPED ON ANY GIVEN DRAWING SHEET.

106 VINYL CEILING GRAPHIC; RE: FINISH SCHEDULE; ALTERNATE 01

111 RECESSED LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL

CONSTRUCTION GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. INTERIOR BUILDING DIMENSIONS ARE TO GRID CENTERLINE AND FACE OF STUD FRAMING AT NEW CONSTRUCTION AND FROM FACE OF EXISTING BUILDING ELEMENT TO FACE OF STUD, UNO.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORIES. NO EXCEPTIONS.
3. ALL INTERIOR FRAMED WALL ASSEMBLIES TO BE TYPE P3 TO BOTTOM OF DECK, UNO.
4. ALL INTERIOR MASONRY WALL ASSEMBLIES ARE EXISTING, UNO.
5. OBTAIN CLARIFICATION FROM BUILDING OWNER REGARDING AVAILABILITY OF PRE-STOCKED OR INVENTORIED BUILDING MATERIALS (IF ANY) THAT MAY BE CONSIDERED FOR THIS PROJECT.
6. HATCHED AREA ON PLAN DRAWING IS "NOT IN CONTRACT". BASE BUILDING SPACES AND CONSTRUCTION (EXIT STAIRS, SHAFTS, ELECTRICAL TOILETS, ETC.) ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE.
7. WHERE THE DESIGN INTENT CANNOT BE DETERMINED FROM CONSTRUCTION DOCUMENTS, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. PATCH AND REPAIR EXISTING PARTITIONS WHERE DEMOLITION HAS OCCURRED, INCLUDING THE REMOVAL OF WALL OUTLETS, WALL BASE, BLANK COVER PLATES, AND THERMOSTATS. REPAIR GYPSUM BOARD AND PREPARE FOR SPECIFIED FINISH.
9. WHERE NEW ELEMENTS ARE ADJACENT TO EXISTING ELEMENTS, ALIGN FINISHED SURFACES, UNO.
10. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.
11. NOTIFY ARCHITECT OF ANY AREAS WHERE DIMENSIONAL REQUIREMENTS CANNOT BE MET OR EXCEED DIMENSIONS SHOWN FOR CLARIFICATION.
12. PAINT ALL EXPOSED DECK, PIPES, DUCTWORK, AIR DIFFUSERS, AND GRILLS, AND ACCESS DOORS TO MATCH COLOR OF ADJACENT CEILING OR WALL SURFACE, UNO.
13. ALL DIMENSIONS ON FINISH PLANS ARE TO FINISHED FACE OF MATERIAL, UNO.
14. PAINT ALL COUNTERTOP SUPPORT BRACES TO MATCH ADJACENT WALL SURFACE UNLESS FACTORY FINISHED.
15. PAINT ALL INTERIOR HOLLOW METAL DOOR FRAMES IN GYP WALL BOARD TO MATCH ADJACENT WALL COLOR, UNO. RE: DOOR SCHEDULE
16. REFER TO ELEVATIONS AND REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION RELATED TO FINISHES AND EXTENTS.
17. TRENCHING FOR NEW PLUMBING SCOPE SHALL BE PATCHED TO ACCOMMODATE NEW FLOORING FINISHES WITHOUT ANY TRANSCRIBING OF CONCRETE IRREGULARITIES.
18. ALL FLOORING MATERIALS AND TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION UNO.
19. CONTRACTOR TO SUBMIT INSTALLATION PATTERN DRAWINGS FOR ARCHITECT'S APPROVAL FOR ALL APPLICABLE FINISHES (INCLUDING BUT NOT LIMITED TO: CARPET, TILE, FLUID APPLIED FLOORING).
20. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND KNEE SPACE, UNO
21. FLOORING SUBCONTRACTORS TO FIELD VERIFY ALL DIMENSIONS. SMALL FLOORING SLIVERS ALONG PERIMETER WILL NOT BE ACCEPTED. COORDINATE WITH ARCHITECT AS REQUIRED.
22. PROVIDE CORNER GUARDS AT ALL GYPSUM BOARD OUTSIDE CORNERS IN PUBLIC SPACES, UNO.
23. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
24. THIS PLAN SHOWS LOCATIONS OF ITEMS IN ARCHITECTURALLY SIGNIFICANT SPACES ONLY. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL ITEMS NOT SHOWN.
25. CENTER ALL CEILING MOUNTED ITEMS LOCATED IN ACT, GYPSUM BOARD SOFFITS / CEILINGS AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
26. ALL CEILING ELEVATION REFERENCES ARE RELATIVE TO FINISHED FLOOR SLAB BELOW.
27. CONTRACTOR TO FIELD VERIFY CONDITIONS ABOVE FINISHED CEILING AND CEILING HEIGHT RESTRICTIONS, COORDINATE WITH ARCHITECT.
28. ALL NEW AND EXISTING TO REMAIN GYP. BOARD CEILINGS, SOFFITS, AND HEADERS TO BE PAINTED EP-1 UNO
29. ALL EXPOSED CEILING STRUCTURE AND DECK TO BE PAINTED, UNO.

CONSTRUCTION PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW STUD WALL FRAMING - TO BOTTOM OF CEILING
- AREA NOT IN CONTRACT (N.I.C.)
- EXISTING DOOR TO REMAIN
- NEW DOOR WITH DOOR TAG OR EXISTING DOOR TO BE REUSED; RE: DOOR SCHEDULE
- 1 — EQUIPMENT / ACCESSORY / MATERIAL TAG (ALSO ON INTERIOR ELEVATIONS)
- XX.XX — NEW WALL PARITION TAG - MASONRY/GYPSUM TO BOTTOM OF METAL DECK
- XX.XX — NEW WALL PARTITION TAG MASONRY/GYPSUM TO BOTTOM OF CEILING
- 1 — SYSTEM ASSEMBLY TYPE: FLOORS, WALLS, CEILINGS, AND ROOFS

CEILING TAG IDENTIFIER AND TYPE LEGEND

- XX — CEILING TYPE, RE: ASSEMBLIES
- X' - X" — CEILING HEIGHT ABOVE LEVEL
- XX — SPECIAL CEILING FINISH, RE: FINISH LEGEND
- G1 — GYPSUM BOARD CEILING/SOFFIT, RE: ASSEMBLIES

CEILING SYMBOLS LEGEND

REFER TO ENGINEERING MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION

- DOWNLIGHT LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
- LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
- EXISTING CONCRETE T BEAMS

FINISH LEGEND

ROOM NAME
ROOM NUMBER
WF — WALL FINISH MATERIAL
BF — BASE FINISH MATERIAL
FF — FLOOR FINISH MATERIAL

- XXX / X-# / XXX — FINISH NOTE, WHERE OCCURS / FINISH MATERIAL TAG / FINISH NOTE, WHERE OCCURS
- FINISH MATERIAL/PATTERN DIRECTION
- X-# X-# — FINISH MATERIAL TRANSITION
- TME — TO MATCH EXISTING

MOA ARCHITECTURE
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CASPER, WYOMING 82601
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moaarch.com

CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD

Sheet Name
ENLARGED PLAN - NORTH LOCKERS ALTERNATE 01

A-202

PLAN NORTH

2/13/2026 11:38:53 AM

SHEET KEYNOTES

NUMBERING IS GROUPED BY TYPE / PHASE OF WORKSHEET OF NON-ARCHITECTURAL ITEMS OR INFORMATIONAL / INSTRUCTIONAL NOTATION. SOME NUMBERS MAY BE SKIPPED ON ANY GIVEN DRAWING SHEET.

107 RELOCATED EXISTING ICE MACHINE. COORDINATE ICE MACHINE DRAIN AND POWER REQUIREMNTS; RE: PLUMBING & ELECTRICAL
108 PROVIDE NEW AND EXTEND EXISTING PLUMBING FROM CEILING FOR WHIRLPOOL TUBS. PATCH AND REPAIR EXISTING ACOUSTIC CEILING TILE AS REQUIRED; RE: PLUMBING
109 PATCH, REPAIR AND TOUCH UP PAINT WHERE NEW WALL FINISH AND EXISTING WALL FINISH JOIN
110 EXISTING DOOR TO REMAIN; PROTECT DURING DEMOLITION AND CONSTRUCTION
113 EXISTING WHIRLPOOL COLD TUB
116 EXISTING EQUIPTMENT AND FURNISHINGS

CONSTRUCTION GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. INTERIOR BUILDING DIMENSIONS ARE TO GRID CENTERLINE AND FACE OF STUD FRAMING AT NEW CONSTRUCTION AND FROM FACE OF EXISTING BUILDING ELEMENT TO FACE OF STUD, UNO.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORIES, NO EXCEPTIONS.
3. ALL INTERIOR FRAMED WALL ASSEMBLIES TO BE TYPE P3 TO BOTTOM OF DECK, UNO.
4. ALL INTERIOR MASONRY WALL ASSEMBLIES ARE EXISTING, UNO.
5. OBTAIN CLARIFICATION FROM BUILDING OWNER REGARDING AVAILABILITY OF PRE-STOCKED OR INVENTORIED BUILDING MATERIALS (IF ANY) THAT MAY BE CONSIDERED FOR THIS PROJECT.
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9. WHERE NEW ELEMENTS ARE ADJACENT TO EXISTING ELEMENTS, ALIGN FINISHED SURFACES, UNO.
10. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.
11. NOTIFY ARCHITECT OF ANY AREAS WHERE DIMENSIONAL REQUIREMENTS CANNOT BE MET OR EXCEED DIMENSIONS SHOWN FOR CLARIFICATION.
12. PAINT ALL EXPOSED DECK, PIPES, DUCTWORK, AIR DIFFUSERS, AND GRILLS, AND ACCESS DOORS TO MATCH COLOR OF ADJACENT CEILING OR WALL SURFACE, UNO.
13. ALL DIMENSIONS ON FINISH PLANS ARE TO FINISHED FACE OF MATERIAL, UNO.
14. PAINT ALL COUNTERTOP SUPPORT BRACES TO MATCH ADJACENT WALL SURFACE UNLESS FACTORY FINISHED.
15. PAINT ALL INTERIOR HOLLOW METAL DOOR FRAMES IN GYP WALL BOARD TO MATCH ADJACENT WALL COLOR, UNO. RE: DOOR SCHEDULE
16. REFER TO ELEVATIONS AND REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION RELATED TO FINISHES AND EXTENTS.
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20. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND KNEE SPACE, UNO
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22. PROVIDE CORNER GUARDS AT ALL GYPSUM BOARD OUTSIDE CORNERS IN PUBLIC SPACES, UNO.
23. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
24. THIS PLAN SHOWS LOCATIONS OF ITEMS IN ARCHITECTURALLY SIGNIFICANT SPACES ONLY. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL ITEMS NOT SHOWN.
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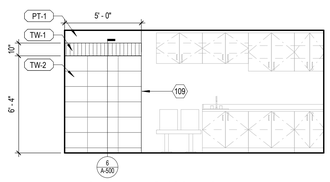
26. ALL CEILING ELEVATION REFERENCES ARE RELATIVE TO FINISHED FLOOR SLAB BELOW.
27. CONTRACTOR TO FIELD VERIFY CONDITIONS ABOVE FINISHED CEILING AND CEILING HEIGHT RESTRICTIONS, COORDINATE WITH ARCHITECT.
28. ALL NEW AND EXISTING TO REMAIN GYP. BOARD CEILINGS, SOFFITS, AND HEADERS TO BE PAINTED EP-1 UNO
29. ALL EXPOSED CEILING STRUCTURE AND DECK TO BE PAINTED, UNO.

CONSTRUCTION PLAN LEGEND

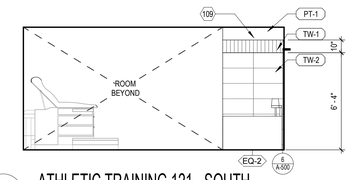
- EXISTING WALL TO REMAIN
- NEW STUD WALL FRAMING - TO BOTTOM OF CEILING
- AREA NOT IN CONTRACT (N.I.C.)
- EXISTING DOOR TO REMAIN
- NEW DOOR WITH DOOR TAG OR EXISTING DOOR TO BE REUSED; RE: DOOR SCHEDULE
- 1 — EQUIPMENT / ACCESSORY / MATERIAL TAG (ALSO ON INTERIOR ELEVATIONS)
- XX.Xx (DECK) — NEW WALL PARITION TAG - MASONRY/GYPSUM TO BOTTOM OF METAL DECK
- XX.Xx (CEIL) — NEW WALL PARTITION TAG MASONRY/GYPSUM TO BOTTOM OF CEILING
- 1 — SYSTEM ASSEMBLY TYPE: FLOORS, WALLS, CEILINGS, AND ROOFS

FINISH LEGEND

ROOM NAME / ROOM NUMBER
WF — WALL FINISH MATERIAL
BF — BASE FINISH MATERIAL
FF — FLOOR FINISH MATERIAL
XXX — FINISH NOTE, WHERE OCCURS
X-# — FINISH MATERIAL TAG
XXX — FINISH NOTE, WHERE OCCURS
FINISH MATERIAL/PATTERN DIRECTION
X-# X-# — FINISH MATERIAL TRANSITION
TME — TO MATCH EXISTING



4 ATHLETIC TRAINING 121 - NORTH
1/4" = 1'-0"



3 ATHLETIC TRAINING 121 - SOUTH
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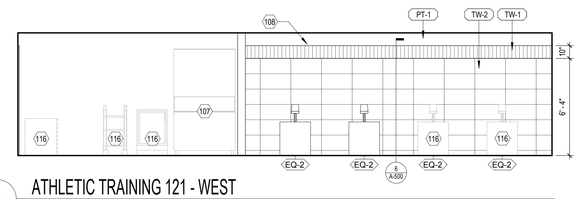

2 ATHLETIC TRAINING 121 - WEST
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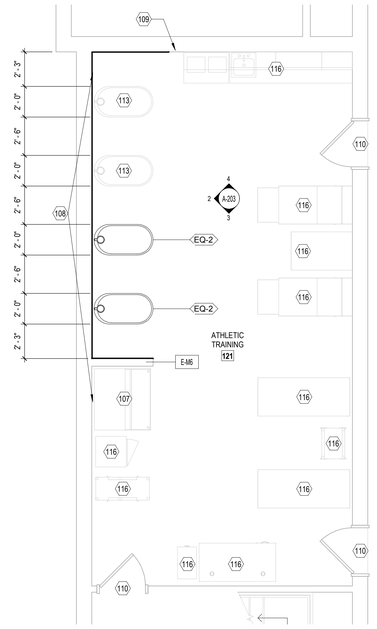

1 ENLARGED FLOOR PLAN - ATHLETIC TRAINING 121 ALTERNATE 02
1/4" = 1'-0"

MOA ARCHITECTURE
WYOMING | COLORADO
259 S. CENTER STREET, SUITE 206
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307.268.9890
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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DARLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD
Copyright:	

Sheet Name
ENLARGED PLAN - ATHLETIC TRAINING ALTERNATE 02

A-203

PLAN NORTH

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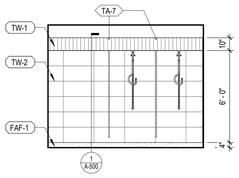
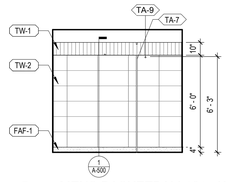
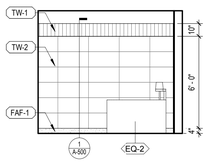


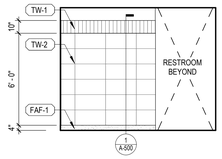
13 MENS BASKETBALL131 - S
1/4" = 1'-0"



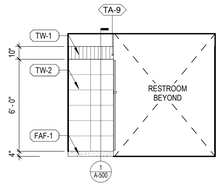
14 MENS BASKETBALL131 - W
1/4" = 1'-0"



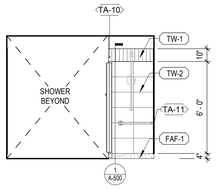
12 MENS BASKETBALL131 - E
1/4" = 1'-0"



11 MENS BASKETBALL131 - N
1/4" = 1'-0"



10 SOUTH FLEX LOCKER RM 130 - S 2
1/4" = 1'-0"



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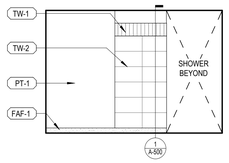
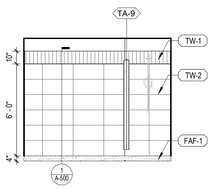
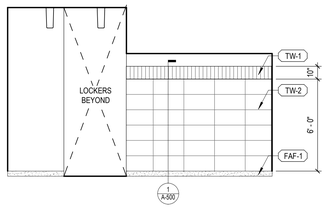
1/4" = 1'-0"



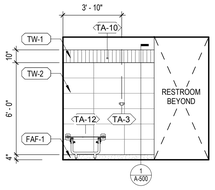
8 SOUTH FLEX LOCKER RM 130 - W2
1/4" = 1'-0"



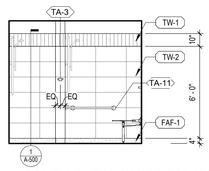
7 SOUTH FLEX LOCKER RM 130 - W
1/4" = 1'-0"



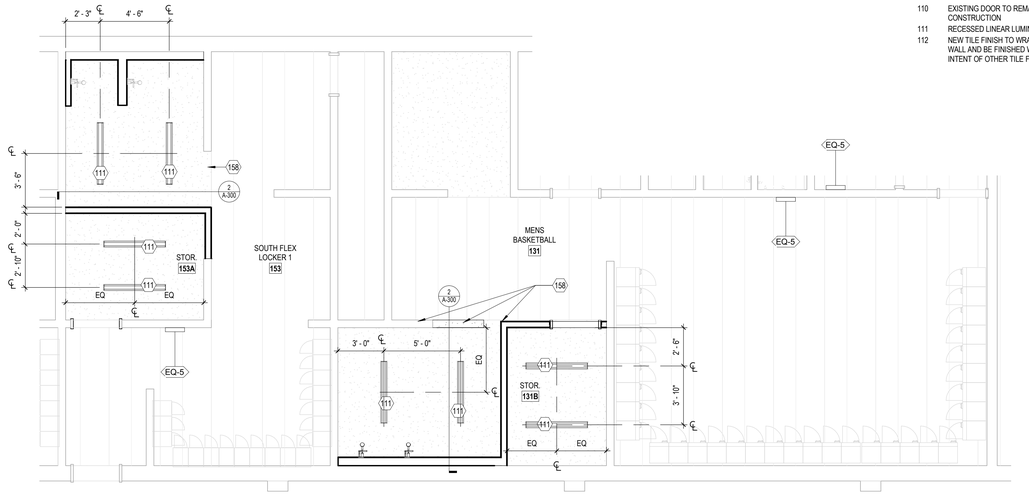
6 SOUTH FLEX LOCKER RM 130 - S 1
1/4" = 1'-0"



5 SOUTH FLEX LOCKER RM 130 - E 1
1/4" = 1'-0"

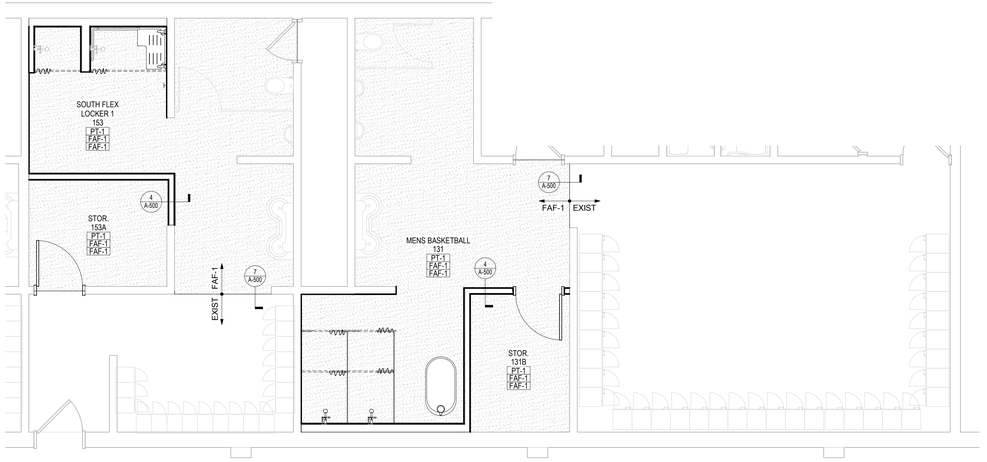


4 SOUTH FLEX LOCKER RM 130 - N
1/4" = 1'-0"



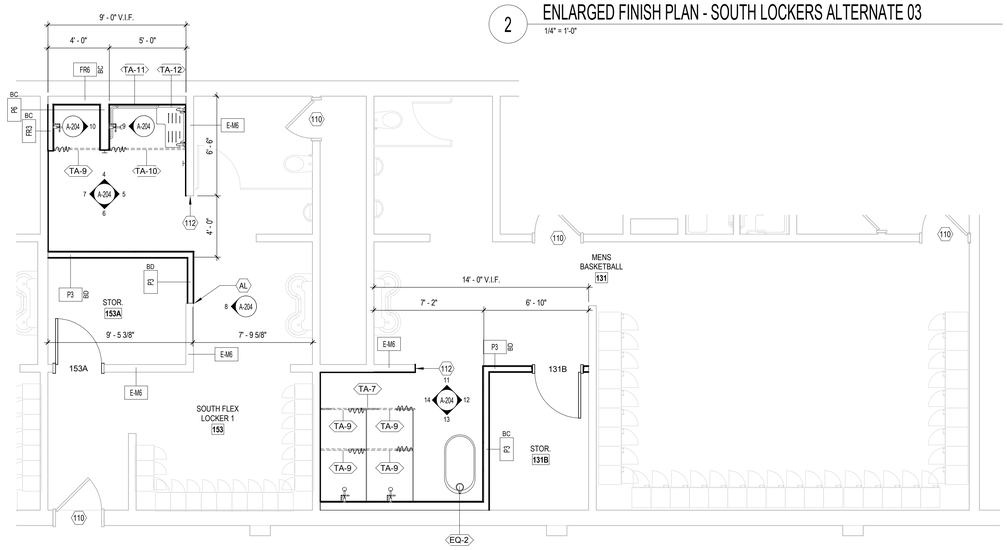
ENLARGED REFLECTED CEILING PLAN - SOUTH LOCKERS ALTERNATE 03
1/4" = 1'-0"

3



ENLARGED FINISH PLAN - SOUTH LOCKERS ALTERNATE 03
1/4" = 1'-0"

2



ENLARGED FLOOR PLAN - SOUTH LOCKERS ALTERNATE 03
1/4" = 1'-0"

1

SHEET KEYNOTES

NUMBERING IS GROUPED BY TYPE / PHASE OF WORKSHEET OF NON-ARCHITECTURAL ITEMS OR INFORMATIONAL / INSTRUCTIONAL NOTATION. SOME NUMBERS MAY BE SKIPPED ON ANY GIVEN DRAWING SHEET.

110 EXISTING DOOR TO REMAIN; PROTECT DURING DEMOLITION AND CONSTRUCTION
111 RECESSED LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
112 NEW TILE FINISH TO WRAP CORNER OF PARTIALLTY DEMOLISHED WALL AND BE FINISHED WITH SCHLUTER TRIM TO MATCH DESIGN INTENT OF OTHER TILE FINISH AREAS

CONSTRUCTION GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. INTERIOR BUILDING DIMENSIONS ARE TO GRID CENTERLINE AND FACE OF STUD FRAMING AT NEW CONSTRUCTION AND FROM FACE OF EXISTING BUILDING ELEMENT TO FACE OF STUD, UNO.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORIES. NO EXCEPTIONS.
3. ALL INTERIOR FRAMED WALL ASSEMBLIES TO BE TYPE P3 TO BOTTOM OF DECK, UNO.
4. ALL INTERIOR MASONRY WALL ASSEMBLIES ARE EXISTING, UNO.
5. OBTAIN CLARIFICATION FROM BUILDING OWNER REGARDING AVAILABILITY OF PRE-STOCKED OR INVENTORIED BUILDING MATERIALS (IF ANY) THAT MAY BE CONSIDERED FOR THIS PROJECT.
6. HATCHED AREA ON PLAN DRAWING IS "NOT IN CONTRACT". BASE BUILDING SPACES AND CONSTRUCTION (EXIT STAIRS, SHAFTS, ELECTRICAL, TOILETS, ETC.) ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE.
7. WHERE THE DESIGN INTENT CANNOT BE DETERMINED FROM CONSTRUCTION DOCUMENTS, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. PATCH AND REPAIR EXISTING PARTITIONS WHERE DEMOLITION HAS OCCURRED, INCLUDING THE REMOVAL OF WALL OUTLETS, WALL BASE, BLANK COVER PLATES, AND THERMOSTATS. REPAIR GYPSUM BOARD AND PREPARE FOR SPECIFIED FINISH.
9. WHERE NEW ELEMENTS ARE ADJACENT TO EXISTING ELEMENTS, ALIGN FINISHED SURFACES, UNO.
10. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.
11. NOTIFY ARCHITECT OF ANY AREAS WHERE DIMENSIONAL REQUIREMENTS CANNOT BE MET OR EXCEED DIMENSIONS SHOWN FOR CLARIFICATION.
12. PAINT ALL EXPOSED DECK, PIPES, DUCTWORK, AIR DIFFUSERS, AND GRILLS, AND ACCESS DOORS TO MATCH COLOR OF ADJACENT CEILING OR WALL SURFACE, UNO.
13. ALL DIMENSIONS ON FINISH PLANS ARE TO FINISHED FACE OF MATERIAL, UNO.
14. PAINT ALL COUNTERTOP SUPPORT BRACES TO MATCH ADJACENT WALL SURFACE UNLESS FACTORY FINISHED.
15. PAINT ALL INTERIOR HOLLOW METAL DOOR FRAMES IN GYP WALL BOARD TO MATCH ADJACENT WALL COLOR, UNO. RE: DOOR SCHEDULE
16. REFER TO ELEVATIONS AND REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION RELATED TO FINISHES AND EXTENTS.
17. TRENCHING FOR NEW PLUMBING SCOPE SHALL BE PATCHED TO ACCOMMODATE NEW FLOORING FINISHES WITHOUT ANY TRANSCRIBING OF CONCRETE IRREGULARITIES.
18. ALL FLOORING MATERIALS AND TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION UNO.
19. CONTRACTOR TO SUBMIT INSTALLATION PATTERN DRAWINGS FOR ARCHITECT'S APPROVAL FOR ALL APPLICABLE FINISHES (INCLUDING BUT NOT LIMITED TO: CARPET, TILE, FLUID APPLIED FLOORING).
20. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND KNEE SPACE, UNO.
21. FLOORING SUBCONTRACTORS TO FIELD VERIFY ALL DIMENSIONS. SMALL FLOORING SLIVERS ALONG PERIMETER WILL NOT BE ACCEPTED. COORDINATE WITH ARCHITECT AS REQUIRED.
22. PROVIDE CORNER GUARDS AT ALL GYPSUM BOARD OUTSIDE CORNERS IN PUBLIC SPACES, UNO.
23. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
24. THIS PLAN SHOWS LOCATIONS OF ITEMS IN ARCHITECTURALLY SIGNIFICANT SPACES ONLY. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL ITEMS NOT SHOWN.
25. CENTER ALL CEILING MOUNTED ITEMS LOCATED IN ACT, GYPSUM BOARD SOFFITS / CEILINGS AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
26. ALL CEILING ELEVATION REFERENCES ARE RELATIVE TO FINISHED FLOOR SLAB BELOW.
27. CONTRACTOR TO FIELD VERIFY CONDITIONS ABOVE FINISHED CEILING AND CEILING HEIGHT RESTRICTIONS, COORDINATE WITH ARCHITECT.
28. ALL NEW AND EXISTING TO REMAIN GYP. BOARD CEILINGS, SOFFITS, AND HEADERS TO BE PAINTED EP-1 UNO
29. ALL EXPOSED CEILING STRUCTURE AND DECK TO BE PAINTED, UNO.

CONSTRUCTION PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW STUD WALL FRAMING - TO BOTTOM OF CEILING
- AREA NOT IN CONTRACT (N.I.C.)
- EXISTING DOOR TO REMAIN
- 200 — NEW DOOR WITH DOOR TAG OR EXISTING DOOR TO BE REUSED; RE: DOOR SCHEDULE
- 1 — EQUIPMENT / ACCESSORY / MATERIAL TAG (ALSO ON INTERIOR ELEVATIONS)
- XX.Xx G2 — NEW WALL PARITION TAG - MASONRY/GYPSUM TO BOTTOM OF METAL DECK
- XX.Xx G2 — NEW WALL PARTITION TAG MASONRY/GYPSUM TO BOTTOM OF CEILING
- 1 — SYSTEM ASSEMBLY TYPE: FLOORS, WALLS, CEILINGS, AND ROOFS

CEILING TAG IDENTIFIER AND TYPE LEGEND

- XX — CEILING TYPE, RE: ASSEMBLIES
- X' - X" — CEILING HEIGHT ABOVE LEVEL
- XX — SPECIAL CEILING FINISH, RE: FINISH LEGEND
- G1 — GYPSUM BOARD CEILING/SOFFIT, RE: ASSEMBLIES

CEILING SYMBOLS LEGEND

REFER TO ENGINEERING MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION

- DOWNLIGHT LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
- LINEAR LUMINAIRE LIGHT FIXTURE; RE: ELECTRICAL
- EXISTING CONCRETE T BEAMS

FINISH LEGEND

- ROOM NAME / ROOM NUMBER
- WF — WALL FINISH MATERIAL
- BF — BASE FINISH MATERIAL
- FF — FLOOR FINISH MATERIAL
- XXX — FINISH NOTE, WHERE OCCURS
- X-# — FINISH MATERIAL TAG
- XXX — FINISH NOTE, WHERE OCCURS
- FINISH MATERIAL/PATTERN DIRECTION
- X-# X-# — FINISH MATERIAL TRANSITION
- TME — TO MATCH EXISTING

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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	
Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD

Sheet Name
ENLARGED PLAN - SOUTH LOCKER ALTERNATE 03

PLAN NORTH

A-204

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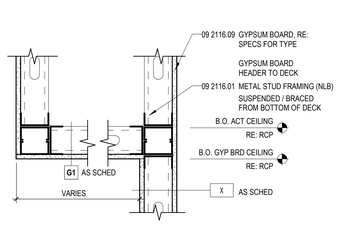
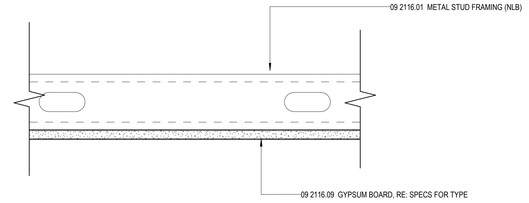
RCP GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. THIS PLAN SHOWS LOCATIONS OF ITEMS IN ARCHITECTURALLY SIGNIFICANT SPACES ONLY. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL ITEMS NOT SHOWN.
3. CENTER ALL CEILING MOUNTED ITEMS LOCATED IN ACT, GYPSUM BOARD SOFFITS / CEILINGS AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
4. ALL CEILING ELEVATION REFERENCES ARE RELATIVE TO FINISHED FLOOR SLAB BELOW.
5. CONTRACTOR TO FIELD VERIFY CONDITIONS ABOVE FINISHED CEILING AND CEILING HEIGHT RESTRICTIONS, COORDINATE WITH ARCHITECT.
6. ALL NEW AND EXISTING TO REMAIN GYP. BOARD CEILINGS, SOFFITS, AND HEADERS TO BE PAINTED EP-1 UNO
7. ALL EXPOSED CEILING STRUCTURE AND DECK TO BE PAINTED, UNO.



2 CLG DTL- BASE SCOPE SOFFIT DETAIL AT WALL
1 1/2" = 1'-0"



1 GYPSUM BOARD CEILING SYSTEM
3" = 1'-0"

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING TYPE	MOUNTING HEIGHT	COLOR TEMPERATURE	FINISH	COMMENTS
F1	LINEAR LIGHT	Lumenwerx	Cava Recessed	RE: ELECTRICAL	RE: ELECTRICAL	4000 K	BLACK	CONFIRM EXTENT OF BASE SCOPE AND ALTERNATE 01
F2	Pendant Lighting Fixture	Lumenwerx	Aera 4 Seal Cylinder	RE: ELECTRICAL	RE: ELECTRICAL	4000 K	BLACK	

CEILING SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CEILING PANEL MODEL	CEILING PANEL FINISH	CEILING GRID MODEL	CEILING GRID FINISH	DETAIL	COMMENTS
G1	GYPSUM BOARD CEILING ON METAL STUDS	N/A	EP-1 / PT-1	N/A	N/A	N/A	1/A-300 & 2/A300	CONFIRM EXTENT OF BASE SCOPE AND ALTERNATE 1

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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DARLEY
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD
Copyright:	

Sheet Name
CEILING INFORMATION

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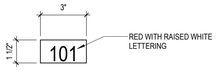
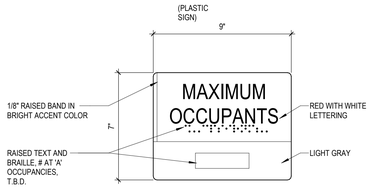


SIGN TYPE 'B'

(PLASTIC SIGN)



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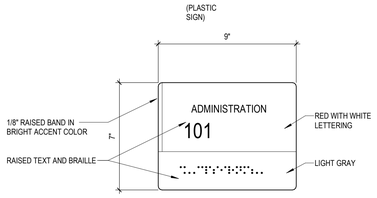
(PLASTIC SIGN)



SIGN TYPE 'C'

(PLASTIC SIGN)

INTERIOR SIGNAGE TYPE

NOT TO SCALE

INTERIOR FINISH SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	INSTALLATION	COMMENTS	CONTACT
09 3000 WALL TILING								
TW-1	WALL TILE	CONCEPT SURFACES	EYE CANDY	CEREJA	3"X10"	VERTICALSTRIGHT STACKED	RED TILE; ALTERNATE 1, 2, & 3	JAREDH@CONCEPTSURFACE.COM
TW-2	WALL TILE	CONCEPT SURFACES	OZ	FAIR	12"X24"	HORIZONTALSTRAIGHT STACKED	TAN TILE; ALTERNATE 1, 2, & 3	JAREDH@CONCEPTSURFACE.COM
09 6500 RESILIENT BASE								
RB-1	RESILIENT WALL BASE	TARKETT	JOHNSONITE BASEWORKS	BURNT UMBER	4" COVE	INSTAL WITH PERFORM OUTSIDE CORNERS		PAMELA.HEITMAN@TARKETT.COM
09 6500 RESILIENT FLOORING								
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	BRANCHING OUT 5MM	RIVERSIDE OAK	6"X48"	STAGGER		NATHAN.NERI@SHAWCONTRACT.COM
09 6700 FLUID APPLIED FLOORING								
FAF-1	FLUID APPLIED FLOORING	SHERWIN WILLIAMS	DECO FLAKE SYSTEM	CHERRY CORDIAL				AARON.HOWE@SHERWIN.COM
09 9123 INTERIOR PAINTING								
EP-1	INTERIOR PAINTING	SHERWIN WILLIAMS	EPOXY PAINT	IRON ORE				AARON.HOWE@SHERWIN.COM
PT-1	INTERIOR PAINTING		EXISTING PAINT	TO MATCH EXISTING			ALTERNATE 2 & 3	AARON.HOWE@SHERWIN.COM
10 2600 WALL AND DOOR PROTECTION								
CG-1	CORNER GUARD	INPRO	160 HIGH IMPACT CORNER GUARD	CASTLE	4"			BPARNELL@INPROCORP.COM
VG-1	VINYL GRAPHIC	WOLF GORDON	TYPE II DIGITAL WALLCOVERING; GOH 35065016	CUSTOM GRAPHIC	VARIED SIZE		CEILING GRAPHIC; ALTERNATE 1	KENLEY.GRAVES@WOLFGORDON.COM
WP-1	WALL PROTECTION	WOLF GORDON	DIGITAL RAMPART	CUSTOM GRAPHIC	VARIED SIZE		VOLLEYBALL WALL GRAPHIC	KENLEY.GRAVES@WOLFGORDON.COM
WP-2	WALL PROTECTION	WOLF GORDON	DIGITAL RAMPART	CUSTOM GRAPHIC	VARIED SIZE		BASKETBALL WALL GRAPHIC	KENLEY.GRAVES@WOLFGORDON.COM
12 3600 COUNTERTOPS								
SS-1	SOLID SURFACE COUNTERTOP	WILSONART	SOLID SURFACE	OPULENT LUXE			COUNTER TOPS	LINDEJ@WILSONART.COM

FINISH PLAN GENERAL NOTES

SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. ALL DIMENSIONS ON FINISH PLANS ARE TO FINISHED FACE OF MATERIAL, UNO.
2. PAINT ALL EXPOSED PIPES, DUCTWORK, AIR DIFFUSERS, GRILLS, AND ACCESS DOORS TO MATCH COLOR OF ADJACENT CEILING OR WALL SURFACE, UNO.
3. PAINT ALL COUNTERTOP SUPPORT BRACES TO MATCH ADJACENT WALL SURFACE UNLESS FACTORY FINISHED.
4. PAINT ALL INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES IN GYP WALL BOARD TO MATCH ADJACENT WALL COLOR, UNO. RE: DOOR SCHEDULE
5. REFER TO ELEVATIONS AND REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION RELATED TO FINISHES AND EXTENTS.
6. TRENCHING FOR NEW PLUMBING SCOPE SHALL BE PATCHED TO ACCOMMODATE NEW FLOORING FINISHES WITHOUT ANY TRANSCRIBING OF CONCRETE IRREGULARITIES.
7. EXISTING FLOORING THAT IS REMOVED SHALL BE AN ACCEPTABLE SUBSTRATE SMOOTHNESS FOR NEW FLOORING.
8. ALL FLOORING MATERIALS AND TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION UNO.
9. CONTRACTOR TO SUBMIT INSTALLATION PATTERN DRAWINGS FOR ARCHITECT'S APPROVAL FOR ALL APPLICABLE FINISHES (INCLUDING BUT NOT LIMITED TO: CARPET, TILE, RESILIENT FLOORING, GLASS FILM).
10. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND KNEE SPACE, UNO
11. FLOORING SUBCONTRACTORS TO FIELD VERIFY ALL DIMENSIONS. SMALL FLOORING SLIVERS ALONG PERIMETER WILL NOT BE ACCEPTED. COORDINATE WITH ARCHITECT AS REQUIRED.
12. PROVIDE CORNER GUARDS AT ALL GYPSUM BOARD OUTSIDE CORNERS IN PUBLIC SPACES, UNO.
13. PROVIDE CLEAN TRANSITIONS BETWEEN VERTICAL SURFACES. USE TRIM PIECES AT MATERIAL TRANSITIONS.
14. ALL ROOM NAMES AND NUMBERS IN THE SIGNAGE SCHEDULE ARE TO BE CONFIRMED WITH THE OWNER BEFORE SIGNAGE IS PROCURED.

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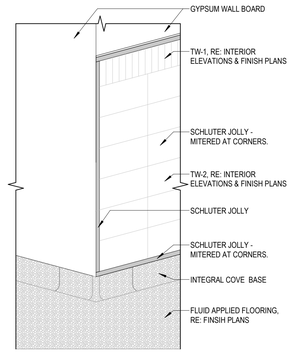
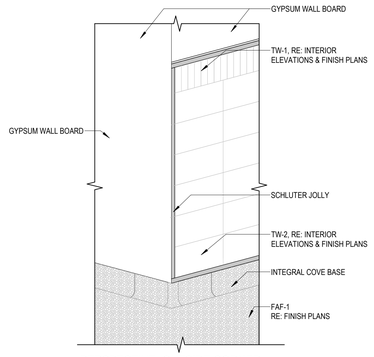
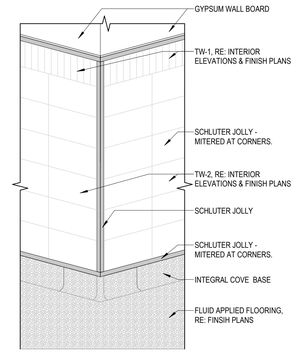


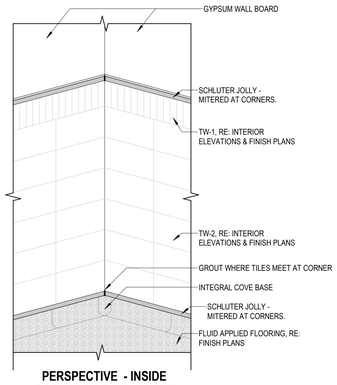
PERSPECTIVE: OUTSIDE CORNER TILE WALL TO GYP WITH INTEGRAL FLUID APPLIED FLOORING BASE



PERSPECTIVE: OUTSIDE CORNER TILE WALLS WITH FLUID APPLIED FLOORING TO GYP WALL WITH LVT-1 FLOORING



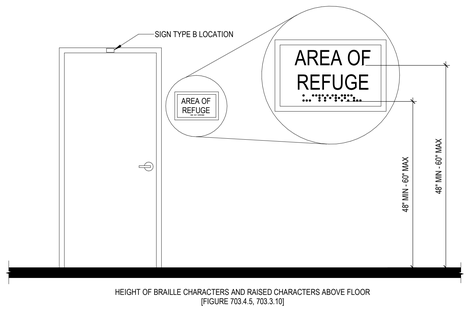
PERSPECTIVE: OUTSIDE CORNER TILE WALL TO TILE WALL WITH INTEGRAL FLUID APPLIED FLOORING BASE



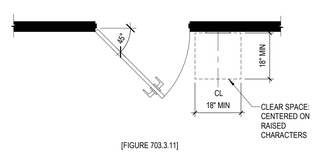
PERSPECTIVE - INSIDE CORNER TILE WALL WITH FLUID APPLIED FLOORING

TILE CORNER CONDITIONS - PERSPECTIVES

SIGN SCHEDULE			
ROOM NUMBER	ROOM NAME	SIGN TYPE	COMMENTS
111	STORAGE	C,B	
112	MECH/ELEC	C,B	
113	CUST.	C,B	
114	WOMENS BASKETBALL	C,B,F	
114A	BBALL STOR.	C,B	
114B	MECH	C,B	
115	REFEREE	C,B,F	
116	NORTH FLEX LOCKER	C,B,F	
117	WOMENS VOLLEYBALL	C,B,F	
117A	VBALL STOR.	C,B	
120	MECH	C,B	
121	ATHLETIC TRAINING	C,B,F	
131	MENS BASKETBALL	C,B,F	
131A	STOR.	C,B	
131B	STOR.	C,B	
153	SOUTH FLEX LOCKER 1	C,B,F	
153A	STOR.	C,B	



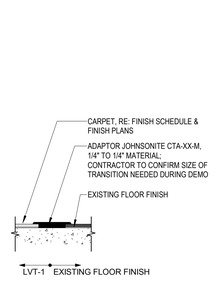
HEIGHT OF BRAILLE CHARACTERS AND RAISED CHARACTERS ABOVE FLOOR
[FIGURE 703.4.5, 703.3.10]



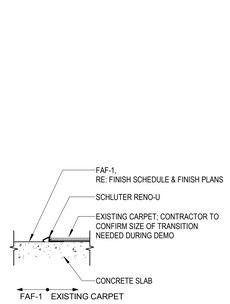
[FIGURE 703.3.11]

SIGNAGE MOUNTING HEIGHT AND LOCATION

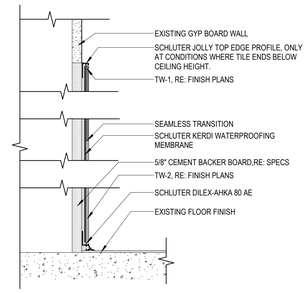
GRAPHICS FROM ANSI STANDARD ACCESSIBLE AND USEABLE BUILDINGS AND FACILITES (ICC A117.1-2017)



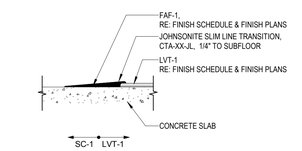
8 LVT-1 TO EXISTING FLOOR FINISH
3" = 1'-0"



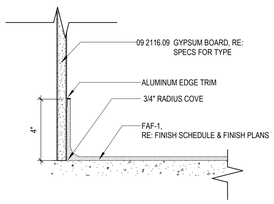
7 FAF-1 TO EXISTING CARPET
3" = 1'-0"



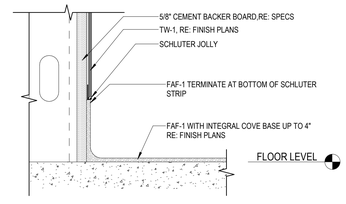
6 TW-1 TO TW-2 TO EXISTING FLOOR FINISH
3" = 1'-0"



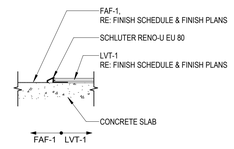
5 SC-1 TO LVT-1
3" = 1'-0"



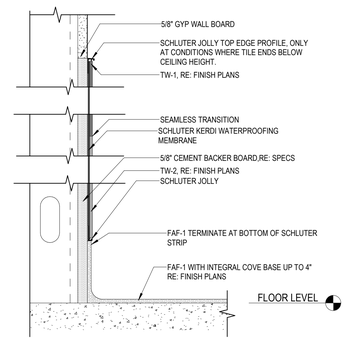
4 INTEGRAL COVE BASE - FLUID APPLIED FLOORING
3" = 1'-0"



3 FAF-1 TO TW-1
3" = 1'-0"



2 FAF-1 TO LVT-1
3" = 1'-0"



1 FAF-1 TO TW-2 TO TW-1
3" = 1'-0"

LICENSED ARCHITECT
BRANDON A. DAIGLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD

Sheet Name
FINISH INFORMATION

A-500

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GENERAL NOTES

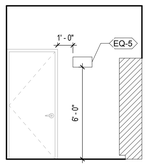
SHEET SPECIFIC GENERAL INFORMATION AND/OR INSTRUCTION

1. AT ALL COUNTER MOUNTED SINKS, THE TOP OF THE SINK IS TO BE 34" MAX. COUNTER HEIGHT UNLESS NOTED OTHERWISE. SINK RIM HEIGHT WILL NEED TO BE TAKEN INTO CONSIDERATION TO ADJUST FOR APPROPRIATE COUNTER HEIGHT.
2. ALL COUNTER TOPS TO RECEIVE A 1IN OVERHANG, TYP.
3. UNLESS NOTED OTHERWISE, ALL WALLS WITH CERAMIC TILE APPLICATION ARE TO INCLUDE A SCHLUTER TRIM TO MEET AND BE FLUSH WITH FLOOR TILE.
4. SEE A-200.1 FOR TOILET ACCESSORIES AND MOUNTING SCHEDULE.
5. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORY LOCATIONS, UNO.
6. ALL ELEVATION NAMES ARE REFERENCING PLAN NORTH, SOUTH, EAST AND WEST.
7. CONTRACTOR SHALL CONFIRM CLEARANCE AND POWER REQUIREMENTS FOR ALL EQUIPMENT, TYP. PRIOR TO LAYOUT.
8. PROVIDE DRYWALL CONTROL JOINTS EVERY 30 LINEAR FEET IN UNBROKEN STRAIGHT RUNS, TYP.
9. ALL WALLS AND CEILING TO BE PAINTED WITH EP-1
10. REFER TO SHEET A-500 FOR INTERIOR FINISH SCHEDULE. REFER TO FINISH PLAN FOR FULL EXTENT OF FINISHES

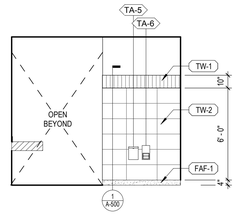
SHEET KEYNOTES

NUMBERING IS GROUPED BY TYPE / PHASE OF WORKSHEET OF NON-ARCHITECTURAL ITEMS OR INFORMATIONAL / INSTRUCTIONAL NOTATION. SOME NUMBERS MAY BE SKIPPED ON ANY GIVEN DRAWING SHEET.

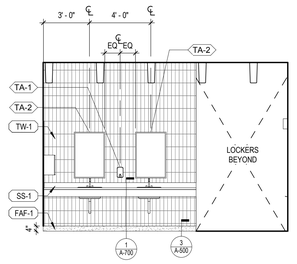
238 ALTERNATE 01 ONLY; SOFFIT ABOVE ALL LOCKERS IF ALTERNATE 01 IS ACCEPTED
239 SHIELD LOCKERS; OFCI
240 EXISTING LOCKERS; OFCI



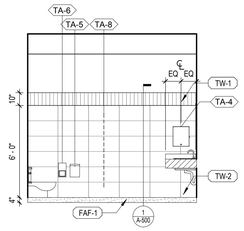
28 REFEREE 115 - EAST
1/4" = 1'-0"



27 VISITOR LOCKER RM - WEST 2
1/4" = 1'-0"



26 VISITOR LOCKER RM - SOUTH 2
1/4" = 1'-0"



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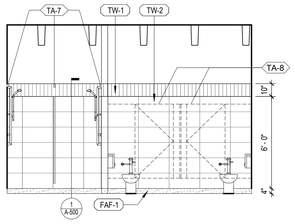
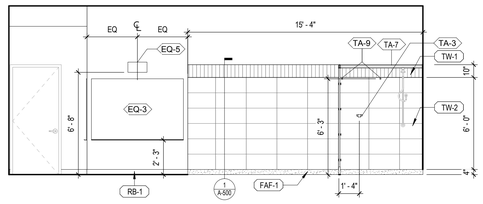


24 VISITOR LOCKER RM - NORTH 2
1/4" = 1'-0"



23 VISITOR LOCKER RM - WEST 1
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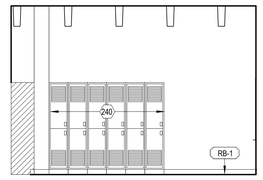
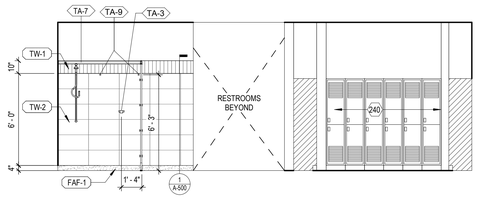


22 VISITOR LOCKER - SOUTH 1
1/4" = 1'-0"



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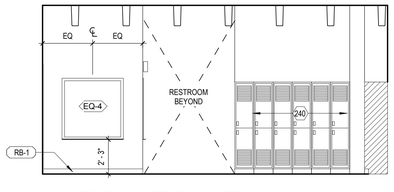

20 VISITOR LOCKER RM - NORTH 1
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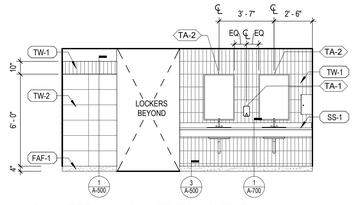
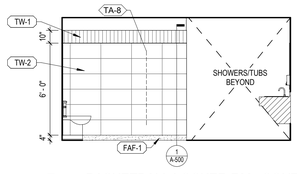


19 BASKETBALL LOCKER RM - WEST 2
1/4" = 1'-0"



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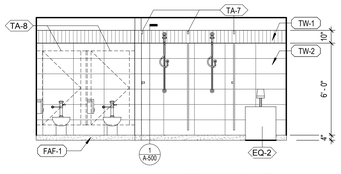

17 BASKETBALL LOCKER RM - EAST 2
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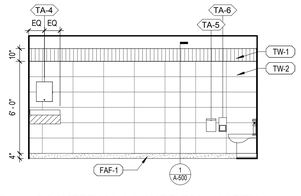
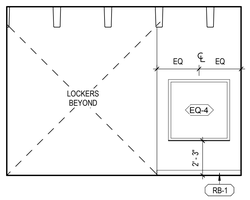


16 BASKETBALL LOCKER RM - NORTH 3
1/4" = 1'-0"



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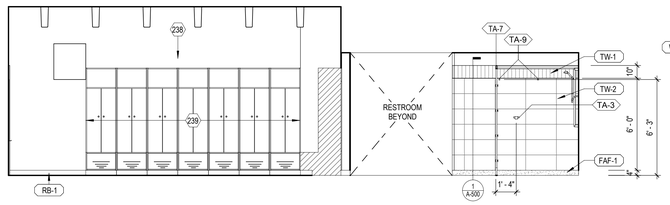
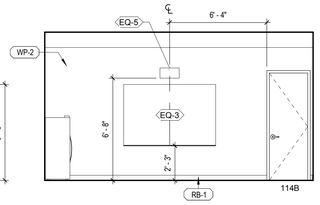
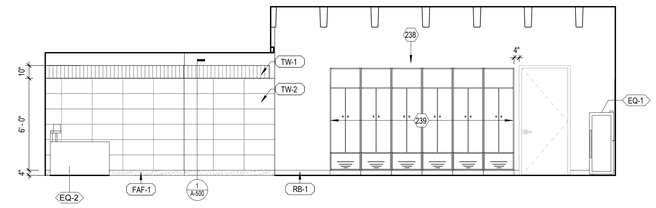


14 BASKETBALL LOCKER RM - NORTH 1
1/4" = 1'-0"



13 BASKETBALL LOCKER RM - WEST
1/4" = 1'-0"



12 BASKETBALL LOCKER RM - SOUTH 1
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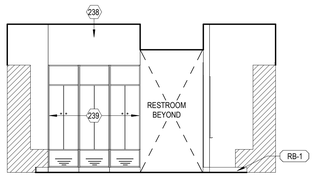
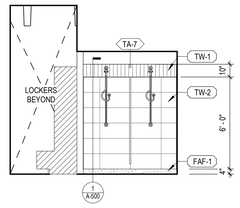
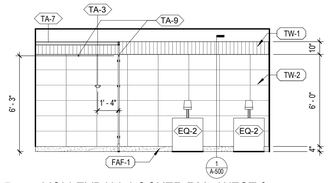


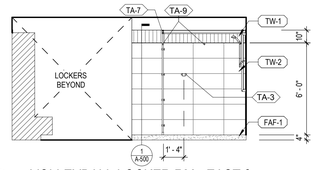
11 BASKETBALL LOCKER RM - EAST 1
1/4" = 1'-0"



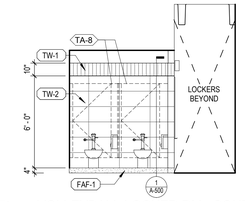
10 VOLLEYBALL LOCKER RM - SOUTH 3
1/4" = 1'-0"



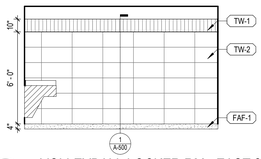
9 VOLLEYBALL LOCKER RM - WEST 3
1/4" = 1'-0"



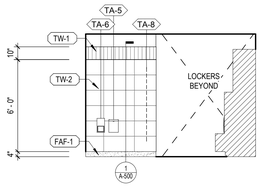
8 VOLLEYBALL LOCKER RM - EAST 3
1/4" = 1'-0"



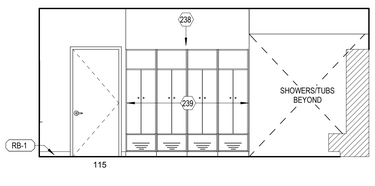
7 VOLLEYBALL LOCKER RM - SOUTH 2
1/4" = 1'-0"



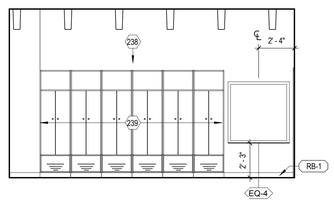
6 VOLLEYBALL LOCKER RM - EAST 2
1/4" = 1'-0"



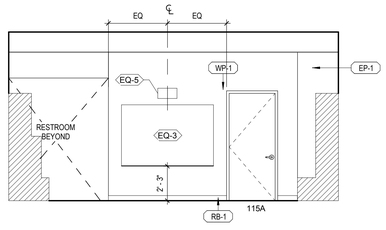
5 VOLLEYBALL LOCKER RM - WEST 2
1/4" = 1'-0"



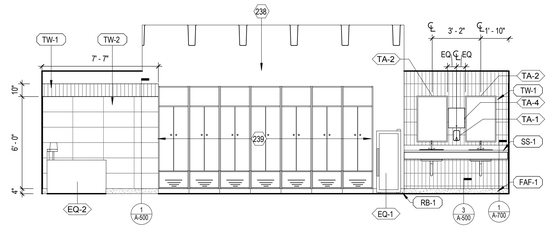
4 VOLLEYBALL LOCKER RM - WEST 1
1/4" = 1'-0"



3 VOLLEYBALL LOCKER RM - SOUTH 1
1/4" = 1'-0"



2 VOLLEYBALL LOCKER RM - EAST 1
1/4" = 1'-0"



1 VOLLEYBALL LOCKER RM - NORTH
1/4" = 1'-0"

MOA ARCHITECTURE
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259 S. CENTER STREET, SUITE 206
CASPER, WYOMING 82601
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moaarch.com

CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DARLEY
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
FOR PERMIT AND CONSTRUCTION	

Project Number	24108.00
Date	2026-02-13
Drawn By	SZ/KA
Checked By:	BD

Sheet Name
INTERIOR ELEVATIONS

A-600

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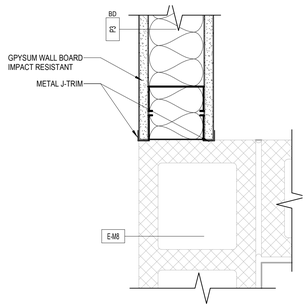
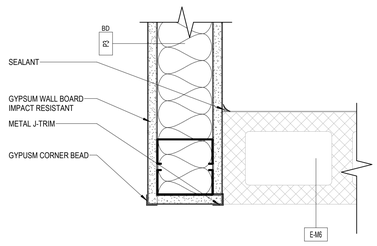
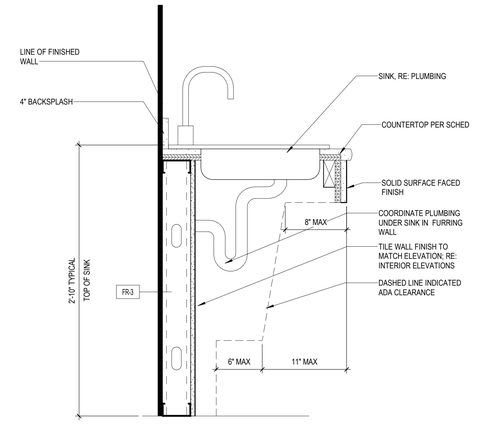


3 PLAN DETAIL - P3a TO EXISTING CORNER
3" = 1'-0"



2 PLAN DETAIL - P3a TO EXISTING WALL
3" = 1'-0"



1 SINK AND COUNTERTOP
1 1/2" = 1'-0"

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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

LICENSED ARCHITECT
BRANDON A. DARLE
B-0270
Date 2/13/2026
STATE OF WYOMING

REVISION	DATE
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Date	2026-02-13
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Checked By:	BD
Copyright:	

Sheet Name
DETAILS

A-700

PLUMBING / HVAC ABBREVIATED SPECIFICATIONS

GENERAL MECHANICAL CONTRACT REQUIREMENTS:

1. THE WORK TO BE PERFORMED UNDER THESE DRAWINGS SHALL INCLUDE ALL EQUIPMENT, LABOR, AND MATERIALS AS REQUIRED AND INCIDENTAL TO PROVIDING COMPLETE, ADJUSTED, OPERATIONAL AND ACCESSIBLE PLUMBING AND MECHANICAL SYSTEMS. THE CONTRACTORS SHALL BE HELD TO HAVE REVIEWED ALL THE PROJECT DOCUMENTS FOR POSSIBLE INTERFERENCE AND TO PLAN THE WORK SUFFICIENTLY IN ADVANCE TO COORDINATE SPACE REQUIREMENTS WITH OTHER TRADES INVOLVED. WHERE CONFLICTS OCCUR, CLARIFICATION SHALL BE REQUESTED THROUGH THE GENERAL CONTRACTOR.

2. LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK ON THE DRAWINGS ARE DIAGRAMMATIC. WHILE INDICATED POSITIONS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, EXACT LOCATIONS WILL BE SUBJECT TO CONSTRUCTION CONDITIONS AND INTERFERENCE WITH OTHER WORK. PIPING AND DUCTWORK SHALL BE INSTALLED IN THE NECESSARY VARIATIONS TO CONFORM TO DETAILS OF THE CONSTRUCTION. ACTUAL DIMENSIONS AND CLEARANCES SHALL BE VERIFIED ON THE JOB SITE PRIOR TO FABRICATION.

3. THE CONTRACTOR SHALL CONTACT THE LOCAL BUILDING DEPARTMENT, WATER DEPARTMENT, SANITATION DISTRICT, GAS UTILITY, AND OTHER REGULATORY AGENCIES PRIOR TO STARING THE WORK. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH PERTINENT STATE AND LOCAL CODES, REGULATIONS, AND ORDINANCES. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, LICENSES, INSPECTIONS AND UTILITY COSTS.

4. PROVIDE MAXIMUM CODE REQUIRED AND/OR MANUFACTURER RECOMMENDED SERVICE CLEARANCE AROUND ALL EQUIPMENT. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE CONSIDERED TO HAVE THE SAME FORCE AND EFFECT AS THOUGH WRITTEN IN FULL IN THESE SPECIFICATIONS. PROVIDE AND INSTALL ACCESS DOORS FOR ALL DEVICES WHICH WILL REQUIRE ADJUSTMENT OR SERVICE AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AVAILABLE ELECTRICAL SERVICE AND OBTAINING MECHANICAL EQUIPMENT WITH THE CORRECT VOLTAGE. POWER SERVING HEATING, COOLING, CONTROLS, AND HOT WATER GENERATION EQUIPMENT SHALL BE FROM DEDICATED CIRCUITS. THIS CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION OF ALL HVAC LOW VOLTAGE CONTROL WIRING AND COORDINATE CONDUIT REQUIREMENTS FOR SAID WIRING WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING A BID.

6. SLEEVES SHALL BE PROVIDED FOR ALL PIPING PASSING THRU WALL OR FLOOR CONSTRUCTION. SLEEVES SHALL BE OF SUFFICIENT DIAMETER TO ACCOMMODATE FREE MOVEMENT OF THE PIPING DUE TO EXPANSION OR CONTRACTION. SEAL PIPE AND DUCT PENETRATIONS THRU FIRE RESISTIVE CONSTRUCTION WITH A FIRE SAFE MATERIAL. SEAL ALL OTHER PENETRATIONS WITH A SILICONE ACOUSTIC CAULK. INSTALL ESCUTCHEONS AT ALL PENETRATIONS IN FINISHED AREAS.

7. THE CONTRACTOR SHALL PROVIDE WRITTEN GUARANTEE THAT ALL WORK INSTALLED WILL BE FREE FROM ANY DEFECTS IN WORKMANSHIP OR MATERIALS AND THAT ALL EQUIPMENT WILL DEVELOP AND EXHIBIT SCHEDULED CAPACITIES AND CHARACTERISTICS. ANY SUCH DEFECTS IN WORKMANSHIP, MATERIAL, OR PERFORMANCE WITHIN ONE YEAR OF ACCEPTANCE BY THE OWNER SHALL BE REMEDIED WITHIN A REASONABLE TIME WITHOUT ADDITIONAL COST TO THE OWNER.

8. DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO DELIVERY OF ANY SUCH EQUIPMENT AND MATERIAL TO THE JOBSITE. SHOP DRAWINGS SHALL BE SUBMITTED IN A SINGLE, BOUND AND COMPLETE PACKAGE INCLUDING CONTROL SCHEMATICS, WIRING DIAGRAMS, AND DIMENSIONED CUT SHEETS SHOWING MFGR, MODEL, CONSTRUCTION, QUANTITY, SIZE, ARRANGEMENT, OPERATING CLEARANCES, PERFORMANCE CHARACTERISTICS, AND CAPACITIES.

9. SCHEDULED AND NOTED EQUIPMENT IS THE BASIS OF DESIGN. EQUIPMENT DEVIATIONS PROPOSED BY THE CONTRACTOR SHALL BE QUALIFIED ON THE BID FORM AND SUBMITTED FOR REVIEW BY THE ENGINEER. WHERE SUCH DEVIATION REQUIRES A DIFFERENT QUALITY, CAPACITY, OR ARRANGEMENT OF RELATED EQUIPMENT, DUCTWORK, PIPING, WIRING, CONDUIT, OR STRUCTURAL SUPPORT FROM THAT SPECIFIED OR INDICATED, THE CONTRACTOR SHALL BEAR THE COST OF ANY REDESIGN AND BE RESPONSIBLE FOR ALL IMPOSED CHANGES.

10. AT THE CONCLUSION OF THE JOB, THE CONTRACTORS SHALL PROVIDE A BOUND AND TABBED OPERATION AND MAINTENANCE MANUAL CONSISTING OF A TABLE OF CONTENTS, WRITTEN AND SIGNED GUARANTEES, START-UP REPORTS, WATER QUALITY TESTS, EQUIPMENT SHOP DRAWINGS AND MFGR'S SERVICE BOOKS, LISTS OF MAINTENANCE ITEMS AND FREQUENCY OF MAINTENANCE, PLUMBING FIXTURE CUT SHEETS AND PARTS LISTS FOR ALL FAUCETS AND VALVES.

HVAC SPECIFICATIONS

1. ALL DUCTS SHALL BE GALVANIZED SHEET METAL CONSTRUCTED, PRESSURE REINFORCED, AND LEAKAGE SEALED IN ACCORDANCE WITH THE LATEST SMACNA CONSTRUCTION STANDARDS. SUPPORT FROM THE STRUCTURE AT MINIMUM SIX FOOT INTERVALS WITH 1" WIDE SHEET METAL STRAP OR CHANNEL IRON WITH THREADED ROD. ALL SEAMS, LONGITUDINAL AND TRANSVERSE SHALL BE SEALED WITH A HARDCAST ELASTIC SEALANT OR EQUIVALENT. MITERED ELBOWS AND TEES SHALL BE PROVIDED WITH DOUBLE WIDTH TURNING VANES.

2. SHEET METAL TAKE-OFFS BETWEEN RECTANGULAR AND ROUND DUCTWORK SHALL BE HIGH EFFICIENCY TYPE WHERE DUCT SIZES PERMIT. PROVIDE ALL DAMPERS AS REQUIRED FOR PROPER ADJUSTMENT AND CONTROL OF AIR DISTRIBUTION. DAMPERS SHALL HAVE RIGID BEARINGS AND LOCKING QUADRANTS. INSTALL FLEXIBLE ATTACHMENTS AT ALL INLET AND DISCHARGE CONNECTIONS TO MOTOR DRIVEN EQUIPMENT.

3. DUCT LINING SHALL BE 1-IN THICK, 1.5 PCF DENSITY ACOUSTICAL LINING WITH ANTI-MICROBIAL COATED SURFACE EXHIBITING ZERO EROSION AT 2000 FPM VELOCITIES. LINING PIECES SHALL BE CUT TO FIT SNUG AGAINST THE DUCTWORK, SECURED AND SEALED IN ACCORDANCE WITH THE MFGR'S INSTRUCTIONS. APPLY LINING IN ALL DUCTS WHERE INDICATED.

4. WHERE HEATING WATER SYSTEMS ARE SHOWN, PIPING SHALL BE TYPE M COPPER WITH 95% TIN, 5% ANTIMONY SOLDER. JOINING METHOD SHALL MEET SPECIFICATIONS FOR AXIAL PRESS. COLD EXPANSION TYPE BRASS FITTINGS WITH BRASS REINFORCING RINGS. BOILER MAKE-UP PIPING SHALL BE TYPE L HARD WROUGHT COPPER TUBE.

5. HEATING WATER PIPING LARGER THAN 2-IN SHALL BE SCH 40 BLACK STEEL WITH RIGID TYPE COUPLINGS, SQUARE-CUT GROOVED TO COUPLING MFGR'S SPECIFICATIONS. PIPING 2-IN AND SMALLER MAY BE TYPE M COPPER WITH 95% TIN, 5% ANTIMONY SOLDER, OR SCH 40 BLACK STEEL WITH THREADED FITTINGS.

HVAC SPECIFICATIONS CONT:

6. SUPPORT PIPE AND EQUIPMENT WITH ALL-THREAD ROD, PIPE HANGERS, AND/OR CHANNEL IRON SUPPORT, FROM THE STRUCTURE, AGAINST THE WALL, AND OVERHEAD. PROVIDE FOR FREE MOVEMENT OF THE PIPE; RIGIDLY MOUNTED PIPING IS PERMITTED ONLY WHERE INDICATED. PIPE SUPPORTS AND STRUT CLAMPS SHALL BE INSULATED TO PREVENT METAL-TO-METAL CONTACT.

7. CLEAN AND FLUSH ALL HEATING WATER PIPING WITH THE BOILERS ISOLATED FROM THE SYSTEM. ADD CLEANER AT THE RATE OF ONE GALLON PER 250 GALLONS OF SYSTEM VOLUME AND CIRCULATE COLD FOR 72 HOURS MINIMUM. FLUSH WITH FRESH WATER, CLEAN ALL STRAINERS, AND REPEAT PROCEDURE UNTIL SYSTEM pH CAN BE MAINTAINED BETWEEN 6.5 AND 8.0. ADD A MULTI-METAL CHEMICAL AND CORROSION INHIBITOR TO MAINTAIN HARDNESS AT < 7 GRAINS.

8. THE CONTRACTOR SHALL SUBMIT A WRITTEN BALANCE REPORT BY A NEBB OR ABBC CERTIFIED BALANCING CONTRACTOR. MEASUREMENTS SHALL INCLUDE MECHANICAL EQUIPMENT MOTOR AMPERAGE AND VOLTAGE READINGS, MOTOR AND FAN RPM, STATIC PRESSURE AT INLET AND OUTLET OF ALL FANS, PUMPS, COILS, AND FILTERS; TEMPERATURE DROP AND PRESSURE DROP AT ALL COILS; AND TOTAL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIRFLOW AT MINIMUM AND ECONOMIZER CONDITIONS. PROVIDE ALL REQUIRED SHEAVES, BELTS, TESTING EQUIPMENT, ETC NECESSARY TO BALANCE THE SYSTEMS. CONTROLS SYSTEMS SHALL BE CALIBRATED USING MEASURED VALUES.

PLUMBING SPECIFICATIONS

1. FURNISH AND INSTALL ALL NECESSARY PIPING, FITTINGS, AND VALVES TO PROVIDE WATER SERVICE AND SANITARY SEWER TO THE BUILDING. EXCAVATION, TRENCHING, BACKFILLING, AND COMPACTION SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS. WATER SERVICE SHALL BE INSTALLED WITH SIX FEET MINIMUM GROUND COVER, AND IN ACCORDANCE WITH THE JURISDICTIONAL AUTHORITY. SANITARY SEWERS SHALL BE INSTALLED AT 1/4-IN MINIMUM SLOPE WITH FOUR FEET GROUND COVER WHERE CONDITIONS PERMIT.

2. ABOVE GRADE DOMESTIC WATER PIPING IN EXPOSED AREAS AND THE MECHANICAL ROOM SHALL BE TYPE L COPPER WITH WROUGHT COPPER SWEAT FITTINGS OR VEGA BRAND PROPRESS JOINING SYSTEM (NO SHARK-BITE FITTINGS).

3. BELOW GRADE SANITARY WASTE AND VENT PIPE AND FITTINGS SHALL BE PVC SCH 40 WITH SOLVENT WELDED JOINTS (NO CELL-CORE PIPE). SEWERS SHALL BE LAID ON A 4-IN BEDDING OF SAND OR PEA GRAVEL TO SUPPORT PIPE EVENLY. ALL HORIZONTAL WASTE LINES SHALL BE SLOPED 1/4-IN PER FOOT IN THE DIRECTION OF FLOW. BRANCH CONNECTIONS AND CHANGES IN DIRECTION SHALL BE MADE WITH WYES AND 1/8 BENDS. ABOVE GRADE SHALL BE CAST IRON WITH NO-HUB RUBBER COUPLINGS.

4. INSTALL PIPING AS DIRECT AS POSSIBLE, STRAIGHT AND PLUMB, FORMING RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS, FLOORS, AND CEILINGS. SUPPORT ALL PIPING FROM THE STRUCTURE TO PREVENT SAGGING, POCKETING, SWAYING, OR DISPLACEMENT BY THE HANGER. ALL PIPING SHALL BE INSTALLED TO PROVIDE FREE MOVEMENT WITHOUT STRAIN OR STRESS. INSTALL DIELECTRIC WATERWAYS BETWEEN PIPING OF DIS-SIMILAR METALS.

5. INSTALL CLEAN-OUTS IN HORIZONTAL RUNS EXCEEDING 50 FEET, AT THE BASE OF WASTE STACKS, AT EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES, AND WHERE INDICATED. EQUIP EACH FIXTURE AND DEVICE REQUIRING CONNECTION TO THE DRAINAGE SYSTEM WITH A P-TRAP. INSTALL TRAP SEALS FOR FLOOR DRAINS WHERE REQUIRED BY THE LOCAL AUTHORITY.

6. PLUMBING FIXTURES SHALL BE SET LEVEL AND PLUMB, SPACED IN ACCORDANCE WITH THE ARCHITECT, AND SEALED AND SECURED SO AS TO BE ABSOLUTELY RIGID. EXPOSED CONNECTIONS SHALL BE WITH CHROME PLATED ANNEALED SUPPLIES AND ANGLE QUARTER-TURN STOPS. WALL PENETRATIONS SHALL BE FINISHED WITH CHROME PLATED ESCUTCHEONS PROVIDING COMPLETE COVERAGE. ALL LAVATORIES AND SINKS SHALL INCLUDE LISTED TEMP LIMITING DEVICES.

7. PIPE INSULATION SHALL BE 1" THICK, PREFORMED FIBERGLASS WITH FACTORY APPLIED VAPOR BARRIER JACKETING. ALL JOINTS SHALL BE SEALED WITH THE MFGR'S VAPOR BARRIER JOINT TAPE. INSTALL CONTINUOUS THRU ALL HANGERS, SUPPORTS, AND PENETRATIONS. APPLY INSULATION TO ALL ABOVE GROUND HEATING WATER, DOMESTIC HOT AND COLD WATER PIPING, FITTINGS, AND VALVE BODIES.

EXISTING CONDITIONS

1. INDICATED LOCATIONS OF EXISTING UTILITIES, PIPING, DUCTWORK, ETC, UNDERGROUND AND OVERHEAD, ARE APPROXIMATE AND ARE NOT TO BE RELIED UPON AS ACCURATE OR COMPLETE. LOCATIONS, SIZES, ROUTING, ETC HAS BEEN TAKEN FROM AVAILABLE INFORMATION.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING PIPING AND OTHER CONDUITS PRIOR TO EXCAVATION OR CONSTRUCTION IN A GIVEN AREA AND TO PROTECT AGAINST DAMAGE TO LINES AND EQUIPMENT INTENDED TO REMAIN.

DEMOLITION

1. CONTRACTORS SHALL VISIT THE SITE TO VERIFY THE EXTENT OF EQUIPMENT AND MATERIAL TO BE DEMO'D AND REMOVED. ALL DEMOLITION IS CONTRACTOR'S SALVAGE UNLESS NOTED OTHERWISE.

2. HATCHING INDICATES EXTENT OF DEMOLITION. DASHED LINES DENOTE EXISTING EQUIPMENT TO REMAIN. MAKE ARRANGEMENTS TO PROTECT REMAINING EQUIPMENT FROM DAMAGE.

DOMESTIC CIRCULATING PUMPS

MARK	MODEL NO.	FLOW GPM	WPD FT HD	PUMP TYPE	FLUID MEDIA	MOTOR HP	MOTOR RPM	MOTOR VOLTS	PIPE SIZE SUC	PIPE SIZE DIS	AREA SERVED	CONTROL	REMARKS
SP-1	LIBERTY MODEL D3672	20	20	EFFLUENT	GREY WATER	1/3	1750	120 1PH	-	2"	TRAINING ROOM	FLOAT SWITCH	SEE (1-7) BELOW

1) SUPPLY DUPLEX PRE-PACKAGED SYSTEM WITH 3-VARIABLE LEVEL SWITCH, REMOTE ALARM PANEL IN ROOM, GR30 GUIDE RAIL SYSTEM AND 36"x72" FIBERGLASS SUMP WITH STEEL COVER AND TOP DISCHARGE 2) IRON BODY FOR DOMESTIC APPLICATION 3) FIELD LOCATE FOR MAXIMUM ACCESSIBILITY, INSTALL PER MFGR 5) ANTI-FLOAT RING 6) INSTALL WITH CHECK VALVE AND BALL VALVE ISOLATION 7) 120V CONTROL WIRED BY EC

PLUMBING FIXTURES

MARK	FIXTURE	MFGR MODEL AND DESCRIPTION	CONNECTIONS CW	CONNECTIONS HW	CONNECTIONS DRAIN	CONNECTIONS VENT	MOUNTING HEIGHT
WC-1	FLOOR MOUNT ADA WATER CLOSET	AMERICAN STANDARD MADERA MODEL 3043.001, FLOOR MOUNT, 16.5" RIM HT, TOP SPUD, WHITE OPEN FRONT SEAT. SLOAN ROYAL MODEL 111 SFSM FLUSHOMETER, HARDWIRED POWERED, SENSOR OPERATED, INFRARED UNIT WITH MECHANICAL OVERRIDE, 1.6 GPF.	1"	-	4"	2"	FLOOR MOUNT
LV-1	COUNTER TOP ADA LAVATORY	AMERICAN STANDARD AQUALYN MODEL 0476.028, SELF-RIMMING, SINGLE HOLE. SLOAN FAUCET MODEL EFX-350, BATTERY POWERED WITH ADAPTER CORD, 0.5 GPM, OFFSET GRID DRAIN, WITH TRUEBRO LAVGUARD INSULATION KIT.	1/2"	1/2"	2"	1-1/2"	COUNTER TOP
SH-1	SHOWER ONLY	FIELD BUILT SHOWER. DELTA FAUCET MODEL T13H103, CHROME WITH HANDHELD SHOWER 75413 AND HOSE. ROUGH-IN VALVE WITH STOPS. ALL ACCESSORIES BY OTHERS.	1/2"	1/2"	2"	1-1/2"	PER ARCHITECT
WT-1	WHIRLPOOL TUB FAUCET	CHICAGO FAUCET MODEL 897-CCP, WALL-MOUNT WITH INTEGRAL CHECK VALVES, VACUUM BREAKER	3/4"	3/4"	3"	1-1/2"	FLOOR MOUNT

1) WALL MOUNT FIXTURES SHALL BE INSTALLED WITH FLOOR MOUNTED CONCEALED ARM TYPE CARRIER SUPPORTS WITHIN THE WALLS 2) EXPOSED ACCESSORIES SHALL INCLUDE CHROME PLATED BRASS P-TRAPS AND EXTENSIONS, QUARTER-TURN ANGLE STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES 3) ALL WALL PENETRATIONS SHALL BE FINISHED WITH CHROME PLATED ESCUTCHEONS 4) COORDINATE RIM ELEVATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND REQUEST WRITTEN CLARIFICATION WHERE SPECIFICATIONS DIFFER

PLUMBING ACCESSORIES

MARK	FIXTURE	MFGR MODEL AND DESCRIPTION	CONNECTIONS CW	CONNECTIONS HW	CONNECTIONS DRAIN	CONNECTIONS VENT	MOUNTING HEIGHT
FD	FLOOR DRAIN	JAY R SMITH SERIES 2005, SQUARE TOP, WITH FLASHING COLLAR AND CHROME FINISH ADJUSTABLE STRAINER. PRECISE LOCATIONS AS PER ARCHITECT. (2" SIZE U.N.O.)	-	-	2"	1-1/2"	FLOOR
FS	FLOOR SINK	JAY R SMITH SERIES 3430, ACID RESISTANT COATED, 6" DEEP, 12" SQUARE TOP WITH 1/2 ARC GRATE. PRECISE LOCATIONS AS PER ARCHITECT.	-	-	2"	1-1/2"	FLOOR
FCO	FLOOR CLEAN-OUT	JAY R SMITH 4020 SERIES, ROUND ADJUSTABLE NICKEL BRONZE TOP.	-	-	LINE	-	FLOOR
WCO	WALL CLEAN-OUT	JAY R SMITH 4530 SERIES, NO-HUB TEE WITH STAINLESS STEEL COVER.	-	-	LINE	-	18" AFF
GCO	EXTERIOR CLEAN-OUT	JAY R SMITH 4220 SERIES, ROUND CONCRETE ENCASED CAST IRON COVER.	-	-	LINE	-	GRADE
LV	TEMP LIMITING VALVE	POWERS MODEL E480 UNDER-LAV OR LM495 WITH LINE SIZE CONNECTIONS FOR GROUPS. ASSE 1070, LEAD-FREE. ALL SINKS AND LAVATORIES (SHOWN OR NOT) UNLESS NOTED OTHERWISE.	VARIES	VARIES	-	-	UNDER SINK
TS	TRAP SEAL	JAY R SMITH SERIES 2692, ASSE 1072, BARRIER TYPE, FLOOR DRAIN TRAP SEALER. ALL FLOOR DRAINS UNLESS NOTED OTHERWISE.	-	-	-	-	PER MFGR
SA	SHOCK ARRESTOR	PRECISION PLUMBING PRODUCTS SC SERIES, COPPER WITH BRASS PISTON, SIZED AND INSTALLED PER MFGR. INSTALL AT ALL FAST-ACTING DEVICES. LOCATE ACCESSIBLE WITH ISOLATION VALVE.	VARIES	VARIES	-	-	PER MFGR
AC	APPLIANCE CONNECTION	GUY GREY MODEL WB-1, WHITE POWDER COAT METAL BOX WITH BOTTOM OR TOP 1/4 TURN SERVICE STOP AS REQ'D. CONFIRM INSTALLATION HEIGHT.	1/2"	-	-	-	PER MFGR
AD	ACCESS DOOR	PRECISION PLUMBING PRODUCTS D OR F SERIES, 12/12 MIN SIZE, CYLINDER LOCK, FIRE RATED AS REQ'D. STAINLESS FINISH IN TILED WALLS, PRIMED FINISH IN ALL OTHERS. GIVE TO GC FOR INSTALLATION IN WALLS OR CEILINGS FOR ACCESS TO DEVICES AS NEEDED (SHOWN OR NOT).	-	-	-	-	FIELD LOCATE

1) ACCESSORIES OF SIMILAR SIZE, MATERIAL, CONSTRUCTION, AND PURPOSE AS MANUFACTURED BY SMITH, JOSAM, WADE, WATTS, ZURN, WOODFORD, AND OTHERS ARE ACCEPTABLE

EXHAUST FANS

MARK	MODEL NO.	AREAS SERVED	BLOWER ACFM	BLOWER ESP	BLOWER RPM	DESCRIPTION DRIVE	DESCRIPTION TYPE	MOTOR HP	MOTOR VOLTS	DAMPER	CONTROL	WT LBS	REMARKS
EF-1	COOK 1655Q10D	WOMENS BASKETBALL	1280	.25"	708	DIRECT	INLINE	1/2	120 1PH	BACK DRAFT	WA BAS TIME SCHEDULE	150	SEE (1-8) BELOW
EF-1a	COOK 1655Q17D	WOMENS VOLLEYBALL	1695	.25"	1725	DIRECT	INLINE	1/4	120 1PH	BACK DRAFT	WA BAS TIME SCHEDULE	200	SEE (1-2)(4-9) BELOW

1) VIBRATION ISOLATION KIT 2) MOTORIZED BACKDRAFT DAMPER 3) PREWIRED FAN SPEED CONTROLLER 4) PREWIRED DISCONNECT 5) INLET AND OUTLET COMPANION FLANGE 6) INLET AND OUTLET FLEX DUCT CONNECTION 7) INSULATED CABINET 8) FAN SHALL RUN CONTINUOUS IN THE OCCUPIED MODE 9) FACTORY MOUNTED SPEED CONTROL

GRILLES REGISTERS AND DIFFUSERS

MARK	MODEL NO.	TYPE	THROW	FRAME	FINISH	MOUNT	DAMPER	REMARKS
E1	KRUEGER EGC15	EXHAUST REGISTER	N/A	ALUM	BY ARCH	SURFACE	OBDE	MOUNT DIRECTLY TO DUCT IN BASE BID AND TO THE CEILING IN ALTERNATE#1 WHERE APPLICABLE, PAINT INSIDE DUCT FLAT BLACK
T1	KRUEGER EGC15	TRANSFER REGISTER	N/A	ALUM	BY ARCH	SURFACE	NONE	MOUNT DIRECTLY TO DUCT IN BASE BID AND TO THE CEILING IN ALTERNATE#1 WHERE APPLICABLE, PAINT INSIDE DUCT FLAT BLACK
T2	KRUEGER EGC15	TRANSFER REGISTER	N/A	ALUM	BY ARCH	LAY-IN	NONE	MOUNT DIRECTLY IN CEILING TILES WHERE APPLICABLE, PAINT INSIDE DUCT FLAT BLACK

BRANCH DUCT SIZES: 1) FULLSIZE PLENUM BOXES TO GRILLES AND REGISTERS 2) 50-125 CFM = 6"ø 3) 125-250 CFM = 8"ø 4) 250-400 CFM = 10"ø 5) 400-650 CFM = 12"ø

WALL LOUVERS

MARK	MODEL NO.	SERVICE	CFM	THROAT SIZE	FREE AREA	VELOCITY FPM	SPD IN WC	TYPE	FRAME	MOUNTING HEIGHT	REMARKS
WL-1	RUSKIN ELF63750X	WOMENS VOLLEYBALL	1695	25/28	2.57 SF	660	.10"	STATIONARY DRAINABLE	FLANGED	EXISTING WINDOW	SEE (1-4) BELOW

1) WITH EXTENDED SILL 2) ALUMINUM BIRD SCREEN 3) BAKED ENAMEL FINISH (COLOR BY ARCHITECT) 4) FABRICATE 12" DEEP PLENUM 4) MOUNTING IN EXISTING WINDOW OPENING

PANEL RADIATORS

MARK	MODEL NO.	BTUH PER LF	COIL CONFIG	HEATING ELEMENT SECTIONS No	TUBE	AMT	WTD	GPM	CONFIG	LENGTH	HT	FLUID MEDIA	PIPE SIZE	REMARKS
PR-1	RUNTAL RF-5	1209	1 TUBES 5 FINS	1	.75"	180° F	20° F	1.0	STAND ALONE	8 FT	14.5"	WATER	.75"	SEE (1-8) BELOW
PR-2	RUNTAL RF-5	1209	1 TUBES 5 FINS	1	.75"	180° F	20° F	0.75	STAND ALONE	5 FT	14.5"	WATER	.75"	SEE (1-8) BELOW
PR-3	RUNTAL RF-6	1394	1 TUBES 6 FINS	1	.75"	180° F	20° F	0.5	STAND ALONE	4 FT	17.5"	WATER	.75"	SEE (1-8) BELOW
PR-4	RUNTAL RF-6	1394	1 TUBES 6 FINS	1	.75"	180° F	20° F	1.5	STAND ALONE	10 FT	17.5"	WATER	.75"	SEE (1-8) BELOW
PR-5	RUNTAL RF-6	1394	1 TUBES 6 FINS	1	.75"	180° F	20° F	1.25	STAND ALONE	9 FT	17.5"	WATER	.75"	SEE (1-8) BELOW
PR-6	RUNTAL RF-6	1394	1 TUBES 6 FINS	1	.75"	180° F	20° F	0.75	STAND ALONE	4'-6" FT	17.5"	WATER	.75"	SEE (1-8) BELOW
PR-7	RUNTAL RF-6	1394	1 TUBES 6 FINS	1	.75"	180° F	20° F	1.0	STAND ALONE	8 FT	17.5"	WATER	.75"	SEE (1-8) BELOW

1) STD PRESSURE PANEL RADIATOR 2) WALL MOUNT STYLE. JUST ABOVE THE BASE BOARD. 3) TRIMS, CORNERS, AND FULL END CAPS AS NEEDED FOR THE INSTALLATION SHOWN 4) POWDER COATED WITH COLOR BY ARCHITECT 5) INSTALL ALL PIPING HIDDEN FROM VIEW 6) FIELD VERIFY LENGTHS PRIOR TO ORDERING 8) INSTALL VALVES AND ACCESSORIES ABOVE CEILINGS OR IN EXISTING CHASES

GENERAL MECHANICAL NOTES

1. CONTRACTORS SHALL COMPLY WITH ALL STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES.
2. MATERIALS SHALL CONFORM TO STANDARDS PRESCRIBED IN LOCALLY ADOPTED CODES AND BE APPROVED FOR USE BY THE AUTHORITY HAVING JURISDICTION.
3. EQUIPMENT SHALL BE LISTED, LABELED, AND INSTALLED IN ACCORDANCE WITH THE MFGR'S INSTALLATION INSTRUCTIONS.
4. SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, AND UTILITY COSTS. CONNECTIONS TO UTILITIES SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY.
5. CONTRACTORS ARE TO EXAMINE THE SITE AND DOCUMENTS OF OTHER TRADES AND BECOME FAMILIAR WITH THE FULL SCOPE OF WORK PRIOR TO FABRICATING MATERIALS.
6. DRAWINGS ARE DIAGRAMMATIC REPRESENTING GENERAL ARRANGEMENT OF THE WORK. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE.
7. SCHEMATIC DIAGRAMS DENOTE EQUIPMENT RELATIONSHIPS ONLY. SEE FLOOR PLANS FOR MAJOR EQUIPMENT LOCATIONS.
8. CONTRACTORS SHALL BE RESPONSIBLE FOR EXACT FITTING COUNTS, LENGTH OF MATERIAL, OFFSETS REQUIRED, CLEARANCES, AND AN ORGANIZED FIELD INSTALLATION.
9. DUCT SIZES SHOWN AND NOTED ON THE DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS UNLESS NOTED OTHERWISE.

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DESIGN CONDITIONS

5000 FT ELEVATION

CASPER, WY	INSIDE	OUTSIDE
SUMMER	75° F	95° F
WINTER	70° F	-13° F

BLDG GAS LOAD

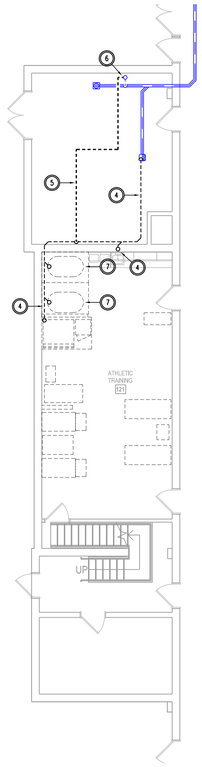
NOT APPLICABLE

PLUMBING / HVAC ABBREVIATIONS

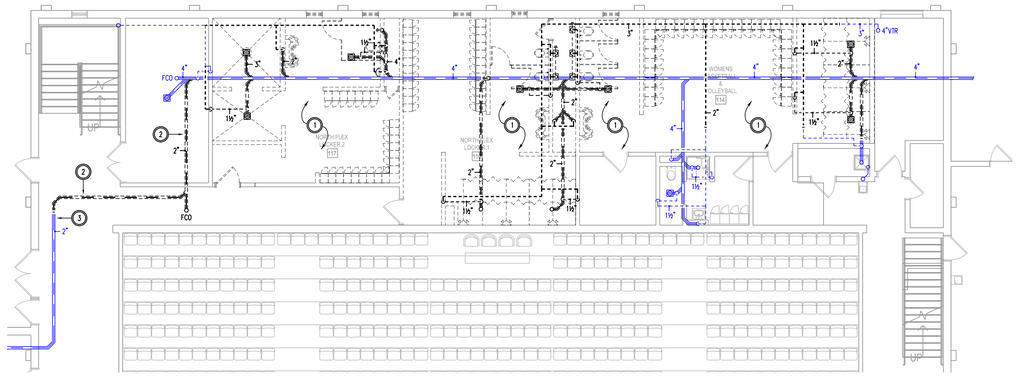
ABBR	IDENTIFICATION	ABBR	IDENTIFICATION	ABBR	IDENTIFICATION	ABBR	IDENTIFICATION
ABV	ABOVE	EA	EXHAUST AIR	IAQ	INDOOR AIR QUALITY	RH	RELATIVE HUMIDITY
ACH	AIR CHANGES PER HOUR	EAT	ENTERING AIR TEMP	LWT	LEAVING WATER TEMP	RPM	REVOLUTIONS PER MINUTE
AD	ACCESS DOOR	EER	ENERGY EFF RATING	MAT	MIXED AIR TEMP	RTU	ROOFTOP UNIT
ADJ	ADJUSTABLE	EFF	EFFICIENCY	MBH	THOUSAND BTU PER HOUR	SA	SUPPLY AIR
AFF	ABOVE FINISHED FLOOR	EC	ELECTRICAL CONTRACTOR	MFGR	MANUFACTURER	SAT	SUPPLY AIR TEMP
AFG	ABOVE FINISHED GRADE	EXTG	EXISTING	MC	MECHANICAL CONTRACTOR	SCFM	CFM AT SEA LEVEL
AHU	AIR HANDLING UNIT	ESP	EXTERNAL STATIC PRESS	MCA	MIN CIRCUIT AMPACITY	SMBH	SENSIBLE MBH
APD	AIR PRESSURE DROP	EWT	ENTERING WATER TEMP	MAX	MAXIMUM	STAT	THERMOSTAT
AV	AIR VENT	FLA	FULL LOAD AMPS	MIN	MINIMUM	STD	STANDARD
ACFM	CFM AT ALTITUDE	FLR	FLOOR	NA	NOT APPLICABLE	TBD	TO BE DETERMINED
BFC	BELOW FINISHED CEILING	FFE	FINISHED FLOOR ELEV	NC	NOISE CRITERIA	TEMP	TEMPERATURE
BLDG	BUILDING	FPI	FINS PER INCH	NIC	NOT IN CONTRACT	THRU	THROUGH
BLW	BELOW	FPM	FEET PER MINUTE	OA	OUTSIDE AIR	TSP	TOTAL STATIC PRESSURE
BTU	BRITISH THERMAL UNIT	GAL	GALLONS	OAT	OUTSIDE AIR TEMP	TYP	TYPICAL
BTUH	BTU PER HOUR	GC	GENERAL CONTRACTOR	OD	OUTSIDE DIAMETER	TD	TRANSFER DUCT
BTM	BOTTOM	GPH	GALLONS PER HOUR	PC	PLUMBING CONTRACTOR	UCD	UNDERCUT DOOR
CFM	CUBIC FEET PER MINUTE	GPM	GALLONS PER MINUTE	PSI	LBS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
CLG	CEILING	HMBH	HEATING MBH	PSIA	PSI ABSOLUTE	VAV	VARIABLE AIR VOLUME
CTE	CONNECTION TO EXTG	HT	HEIGHT	PSIG	PSI GUAGE	VSD	VARIABLE SPEED DRIVE
DDC	DIRECT DIGITAL CONTROL	ID	INSIDE DIAMETER	RA	RETURN AIR	WPD	WATER PRESSURE DROP
DIA	DIAMETER	LBS	POUNDS	REQ'D	REQUIRED	WT	WEIGHT
						WTR	WATER

PLUMBING / HVAC LEGEND

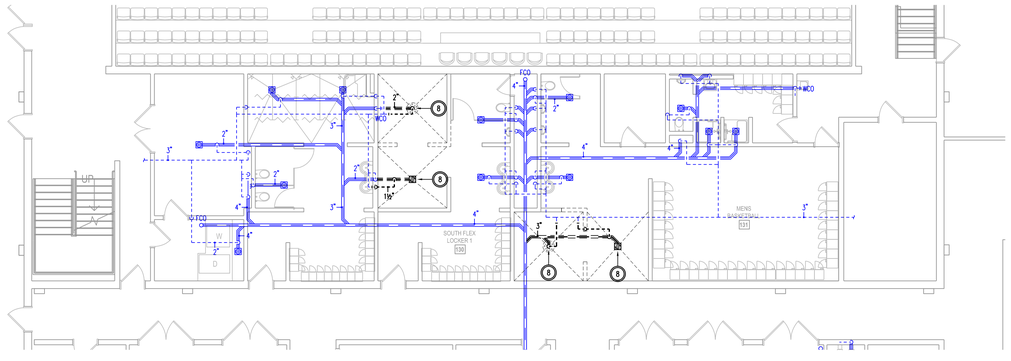
SYMBOL	IDENTIFICATION	SYMBOL	IDENTIFICATION	SYMBOL	IDENTIFICATION
W	WATER SERVICE	FP	FIRE PROTECTION	C	NATURAL GAS LINE
CW	COLD WATER (CW)	HW	HOT WATER (HW)	RC/RG	RECIRC WATER (HW)
RD	ROOF DRAINS (RD)	OD	OVERFLOW DRAINS (OD)	VTR	VENT THRU ROOF (VTR)
	WASTE CLEAN OUT (CO)		SANITARY BLDG WASTE	V	SANITARY SEWER VENT
	FLOOR CLEAN OUT (FCO)		FLOOR DRAIN (FD)	P	P



ATHLETIC TRAINING PLAN - ALTERNATE 02 - WASTE & VENT DEMOLITION | 1/8" = 1'-0" | 03



NORTH LOCKER ROOM PLAN - WASTE & VENT DEMOLITION | 1/8" = 1'-0" | 01



SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - WASTE & VENT DEMOLITION | 1/8" = 1'-0" | 02

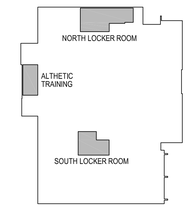
GENERAL NOTES

1. EXTG CONDITIONS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL CONDITIONS AND DIMENSIONS. NO EXTRAS WILL BE GIVEN FOR FAILURE TO INVESTIGATE.
2. MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.
3. FIELD ORGANIZE AND INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC FOR MAXIMUM CLEARANCE AND MAINTENANCE ACCESSIBILITY. (ALL TRADES)
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. REMOVE/DEMOLISH PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD AND DASHED.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.

KEY NOTES

1. DEMO AN REMOVE EXISTING BELOW AND ABOVE GRADE PIPING AS SHOWN COMPLETE BACK TO THE MAIN. SEE RENOVATION PLAN FOR ADDITIONAL WORK. ALL SAW CUTTING BY GC.
2. DEMO AND REMOVE EXISTING 2" DRAIN LINE COMPLETE FROM THE STORAGE ROOM AND HALLWAY. SEE RENOVATION PLAN FOR ADDITIONAL WORK. ALL SAW CUTTING BY GC.
3. DEMO OF THIS PIPING SHALL NOT EFFECT THE GYM FLOOR WHATSOEVER. COORDINATE EXACT 2" WASTE LINE LOCATION. SEE RENOVATION PLAN FOR ADDITIONAL WORK.
4. DEMO AND REMOVE EXISTING ABOVE GRADE SANITARY PIPING WITHIN THIS MECHANICAL ROOM COMPLETE AND ALL ASSOCIATED DRAINS IN THE TRAINING ROOM.
5. DEMO AND REMOVE EXISTING VENTING ASSOCIATED WITH THIS ABOVE GRADE SANITARY PIPING INCLUDING ALL SUPPORTS AND HANGERS.
6. EXISTING VTR TO REMAIN AND FUNCTIONAL IN PLACE. CAP THIS LINE AT THE MAIN AS RECTD.
7. DISCONNECT EXISTING WHIRLPOOL TUB AND PROTECT FROM DAMAGE.
8. DEMO AND REMOVE EXISTING DRAIN PIPING AND VENTING. SEE RENOVATION PLAN FOR CONTINUATION.

KEY PLAN



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CASPER COLLEGE LOCKER ROOMS

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Professional Engineer
ANDREW B. ELSTON
14282
Date 2/13/26
WYOMING

REVISION	DATE
PERMIT DOCUMENTS	

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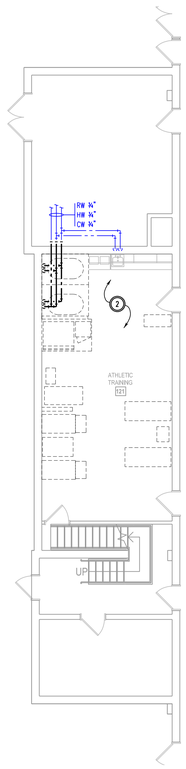
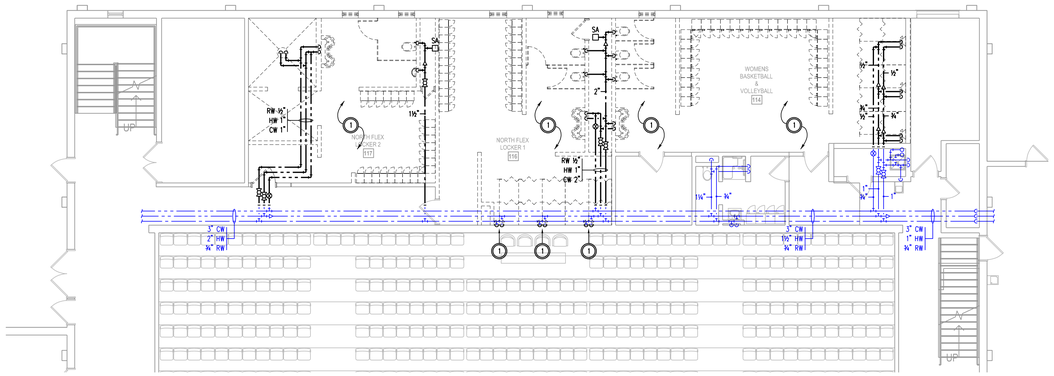
Date	02/13/2026
Drawn By	KD
Checked By:	AE

Sheet Name
MECHANICAL DEMOLITION PLAN - WASTE & VENT

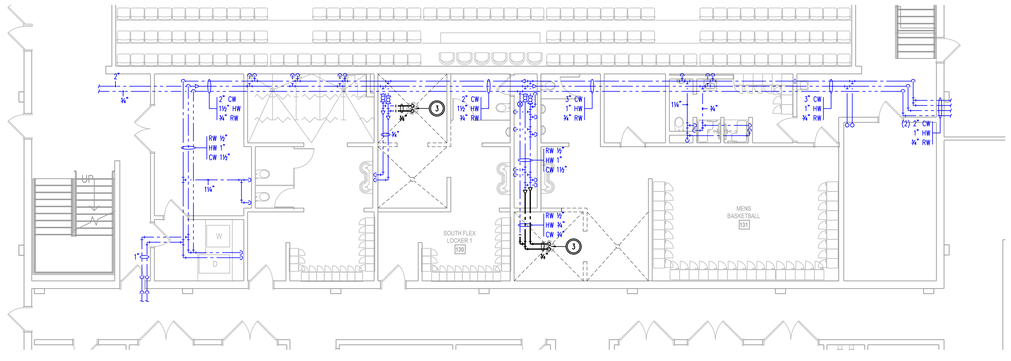
M-101



ATHLETIC TRAINING PLAN - ALTERNATE 02 - DOMESTIC PIPING DEMOLITION 1/8" = 1'-0" | 03



NORTH LOCKER ROOM PLAN - DOMESTIC PIPING DEMOLITION 1/8" = 1'-0" | 01



SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - DOMESTIC PIPING DEMOLITION 1/8" = 1'-0" | 02

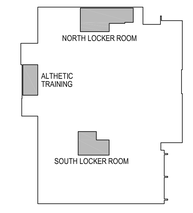
GENERAL NOTES

1. EXTG CONDITIONS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL CONDITIONS AND DIMENSIONS. NO EXTRAS WILL BE GIVEN FOR FAILURE TO INVESTIGATE.
2. MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.
3. FIELD ORGANIZE AND INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC FOR MAXIMUM CLEARANCE AND MAINTENANCE ACCESSIBILITY. (ALL TRADES)
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. REMOVE/DEMOLISH PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD AND DASHED.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.

KEY NOTES

1. DEMO AND REMOVE EXISTING DOMESTIC WATER COMPLETE TO ALL THESE FIXTURES ON THE NORTH SIDE. SEE RENOVATION PLANS FOR CONTINUATION.
2. DEMO AND REMOVE EXISTING DOMESTIC WATER ALONG THIS WEST SIDE ATHLETIC TRAINING ROOM SERVING THE WHIRLPOOL TUBS. EXISTING PIPING TO THE SINK TO REMAIN AND PROTECTED FROM DAMAGE.
3. DEMO AND REMOVE ALL DOMESTIC PIPING IN THE SHOWER COLUMNS AND THE COLUMNS COMPLETE. SEE RENOVATION PLAN FOR CONTINUATION.

KEY PLAN



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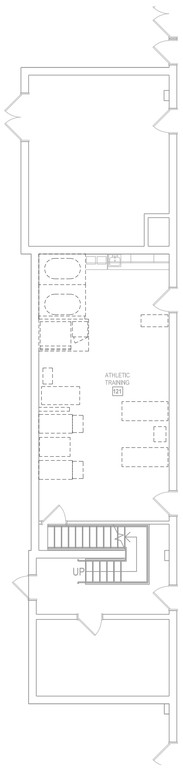
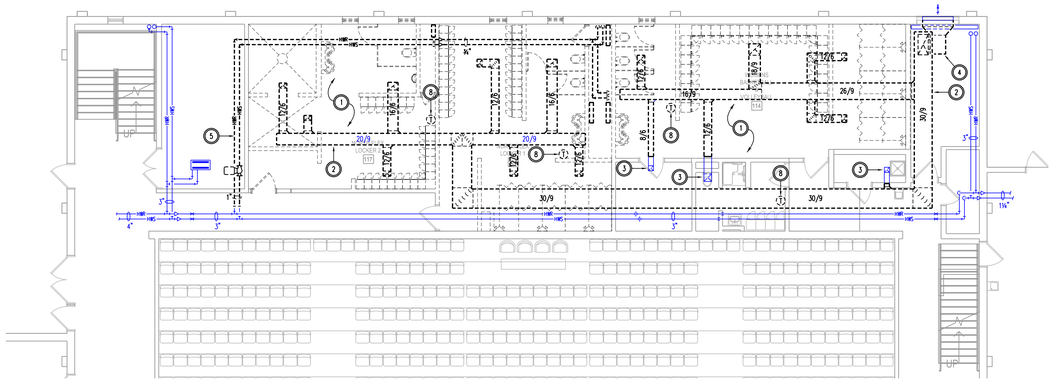
Sheet Name
MECHANICAL DEMOLITION PLAN - DOMESTIC PIPING

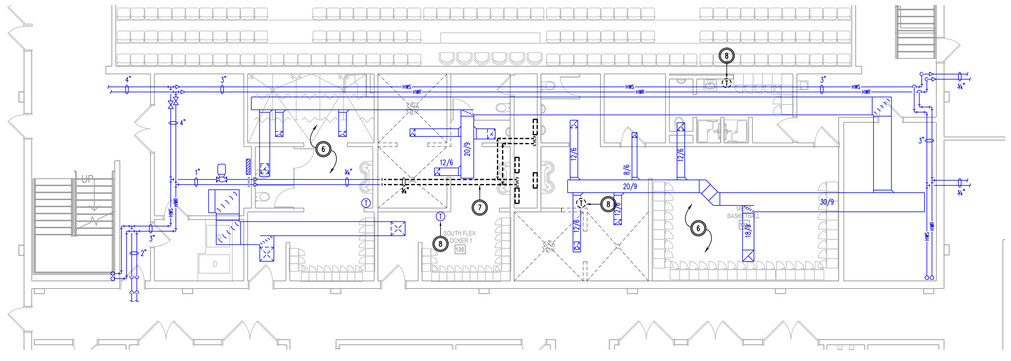
M-102



ATHLETIC TRAINING PLAN - ALTERNATE 02 - HVAC DEMOLITION | 1/8" = 1'-0" | 03



NORTH LOCKER ROOM PLAN - HVAC DEMOLITION | 1/8" = 1'-0" | 01



SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - HVAC DEMOLITION | 1/8" = 1'-0" | 02

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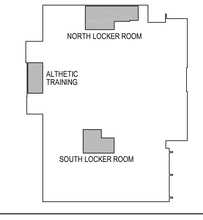
2. MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.
3. FIELD ORGANIZE AND INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC FOR MAXIMUM CLEARANCE AND MAINTENANCE ACCESSIBILITY. (ALL TRADES)
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. REMOVE/DEMOLISH PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD AND DASHED.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.

KEY NOTES

1. DEMO AND REMOVE ALL THE HYDRONIC RADIANT FLOOR HEAT FROM THIS ROOM COMPLETE INCLUDING ALL MANIFOLDS AND ACCESSORIES.
2. DEMO AND REMOVE ALL EXHAUST DUCTWORK FROM ABOVE THE CEILING COMPLETE INCLUDING ALL HANGERS AND SUPPORTS.
3. EXISTING DUCT AND GRILLE IN THIS ROOM TO BE PROTECTED FROM DAMAGE. SEE RENOVATION PLAN FOR RECONNECTIONS.
4. DEMO AND REMOVE EXISTING EXHAUST FAN COMPLETE FROM THIS LOCATION.
5. DEMO AND REMOVE THIS HYDRONIC PIPING COMPLETE BACK TO THE MAINS AND CAP. REMOVE ALL HANGERS AND SUPPORTS.
6. EXHAUST DUCTS TO REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
7. DEMO AND REMOVE THIS HYDRONIC PIPING COMPLETE BACK TO THIS WALL EDGE AND CAP.
8. COORDINATE DEMOLITION OF ALL DDC WITH COLLEGE CONTROL CONTRACTOR IN AREAS OF WORK. SEE RENOVATION PLAN FOR NEW THERMOSTAT LOCATIONS.

KEY PLAN



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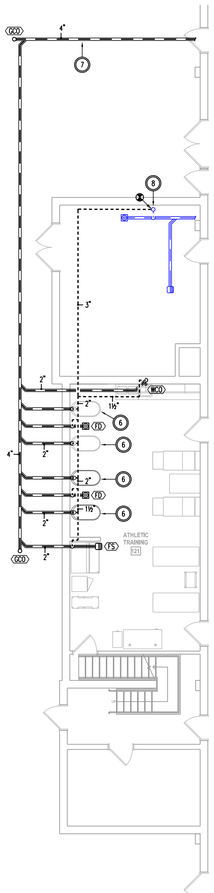
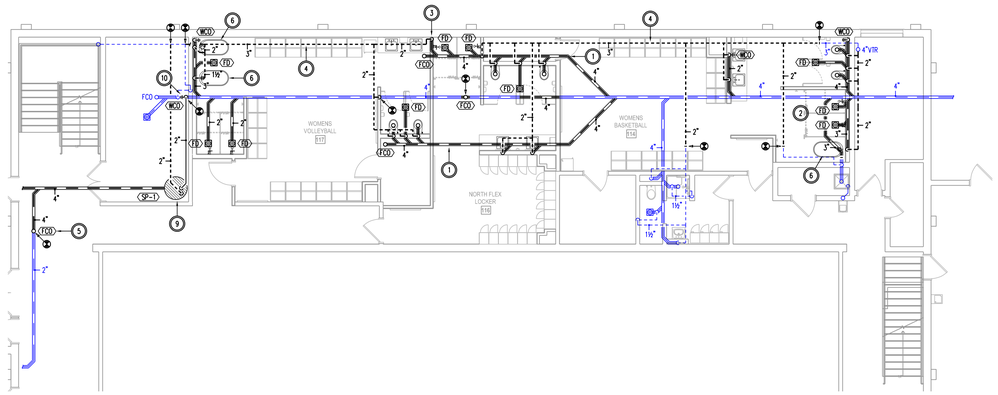
Checked By:	AE

Sheet Name
MECHANICAL DEMOLITION PLAN - HVAC

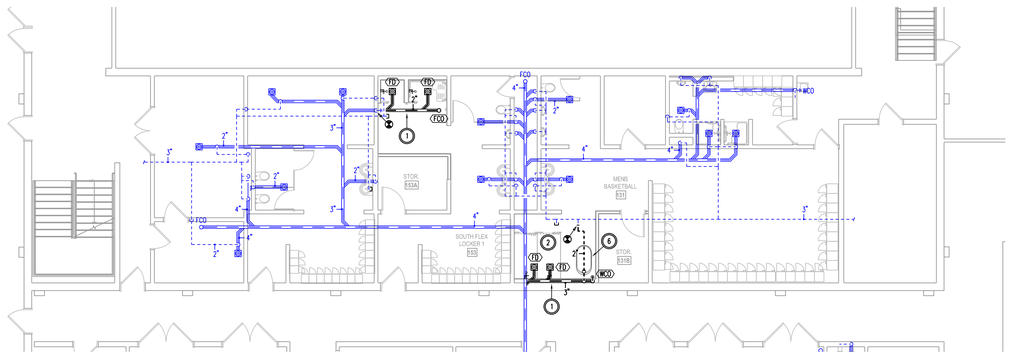
M-103



ATHLETIC TRAINING PLAN - ALTERNATE 02 - WASTE & VENT — 1/8" = 1'-0" | 03



NORTH LOCKER ROOM PLAN - WASTE & VENT — 1/8" = 1'-0" | 01



SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - WASTE & VENT — 1/8" = 1'-0" | 02

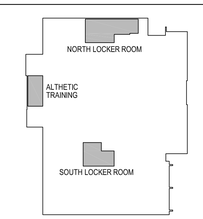
GENERAL NOTES

1. EXTG CONDITIONS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL CONDITIONS AND DIMENSIONS. NO EXTRAS WILL BE GIVEN FOR FAILURE TO INVESTIGATE.
2. MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.
3. FIELD ORGANIZE AND INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC FOR MAXIMUM CLEARANCE AND MAINTENANCE ACCESSIBILITY. (ALL TRADES)
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. NEW PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.
6. INSTALL ALL PLUMBING PIPING WITHIN FRAMED WALLS OR ABOVE CEILINGS TIGHT TO OR WITHIN STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. PLAN OFFSETS AS REQ'D TO AVOID CONFLICTS WITH DUCTWORK AND/OR STRUCTURE.
7. COORDINATE ALL BELOW GROUND INSTALLATION WITH FOUNDATION WORK. PROVIDE SLEEVES OR BLOCK-OUTS WHERE REQ'D. CONSULT ARCHITECT PRIOR TO DISRUPTING ANY STRUCTURAL ELEMENTS.
8. FLOOR DRAIN/SINK LOCATIONS ARE SHOWN APPROXIMATE. CONFIRM ALL LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN AND SET FINAL ELEVATION TO ACCOMMODATE SLOPING FLOORS.
9. FIXTURE LOCATIONS ARE SHOWN APPROXIMATE. CONFIRM ALL LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. CONFIRM CASEWORK DIMENSIONS WILL ACCOMMODATE FIXTURES PRIOR TO ORDERING FIXTURES.

KEY NOTES

1. RECONNECT NEW PLUMBING FIXTURES AS SHOWN TO THE EXISTING SANITARY SYSTEM.
2. COORDINATE A FLOOR DRAIN IN EACH OF THESE SHOWER STALLS. FIELD VERIFY EXACT LOCATION OF THE EXISTING SANITARY SEWER AND ADJUST ACCORDINGLY.
3. INSTALL LAVATORY DRAIN LINE UP IN WALL FRAMING UNDER THE CABINETS. ROUTE VENT LINE BACK TO THE WALL AND OUT AS SHOWN.
4. ROUTE VENT LINE HIGH AND TIGHT IN THE CORNER OF THIS ROOM AND RECONNECT TO THE EXISTING VENT SYSTEM.
5. PROVIDE A FLOOR CLEANOUT AT THIS CONNECTION POINT BETWEEN THE OLD AND NEW SANITARY PIPING LOCATION. THIS LOCATION SHALL NOT EFFECT THE GYM FLOOR.
6. CONNECT OWNER PROVIDED WHIRLPOOL TUB IN THIS LOCATION. PROVIDE A 2" P-TRAP AND RISER FOR CONNECTION TO THE UNDERGROUND PIPING. PROVIDE A 1-1/2" CAST IRON VENT UP THE WALL EXPOSED IN THE TRAINING ROOM OR IN WALL FRAMING PROVIDED IN THE LOCKER ROOMS. CONNECT VENTING ABOVE THE CEILING AS SHOWN.
7. ROUTE NEW 4" WASTE FROM THE TRAINING ROOM AROUND THE BUILDING TO THE DOORWAY AND ENTER THE NORTH LOCKER ROOM. GRADE THIS PIPING AT 1/4" PER FT TO MAINTAIN MAXIMUM SLOPE. CONNECT FIXTURE AS SHOWN. PROTECT THIS EXTERIOR LINE WITH BLUR BOARD INSULATION TO PROTECT FROM FREEZING. INSTALL PIPING AS DEEP AS POSSIBLE.
8. RECONNECT THIS 3" VENT LINE TO THIS EXISTING VTR AS SHOWN. SUPPORT AS REQ'D ABOVE THE CEILING FROM THE STRUCTURE.
9. FIELD LOCATE THIS FIBERGLASS 36"x72" BASIN AS CLOSE TO THE CORNER OF THE ROOM AS POSSIBLE. INSTALL PER MFGR INSTRUCTIONS. ROUTE 2" VENT AND DRAIN LINE ALONG THIS EAST WALL AND CONNECT AS SHOWN.
10. PROVIDE A NEW 2" WASTE STACK UP TO THE CEILING FROM THE EXISTING 4" SEWER LINE. INSTALL SLOPE 2" LINE FROM THE PUMP TO THIS VERTICAL PIPE HIGH UP.

KEY PLAN



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Date 2/13/26
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REVISION	DATE
PERMIT DOCUMENTS	

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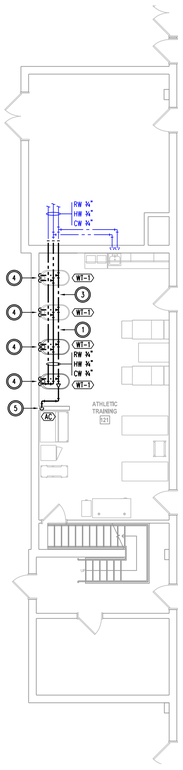
Date	02/13/2026
Drawn By	KD
Checked By:	AE

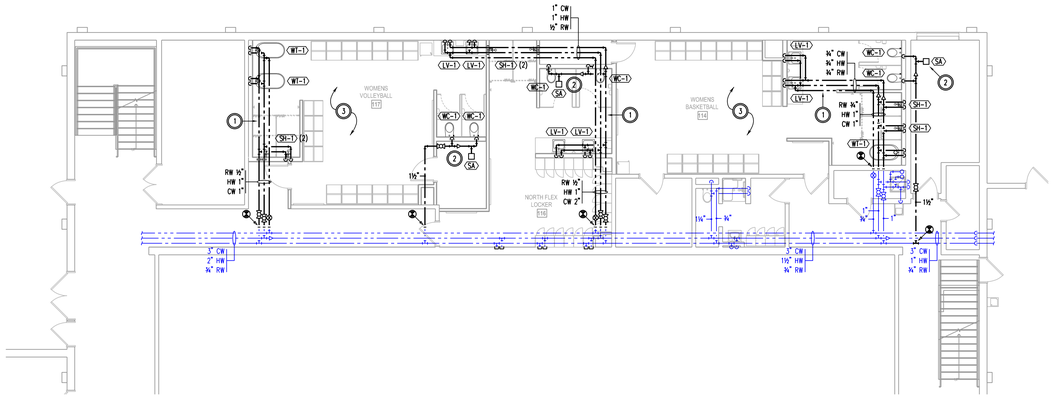
Sheet Name
MECHANICAL RENOVATION PLAN - WASTE & VENT

M-201



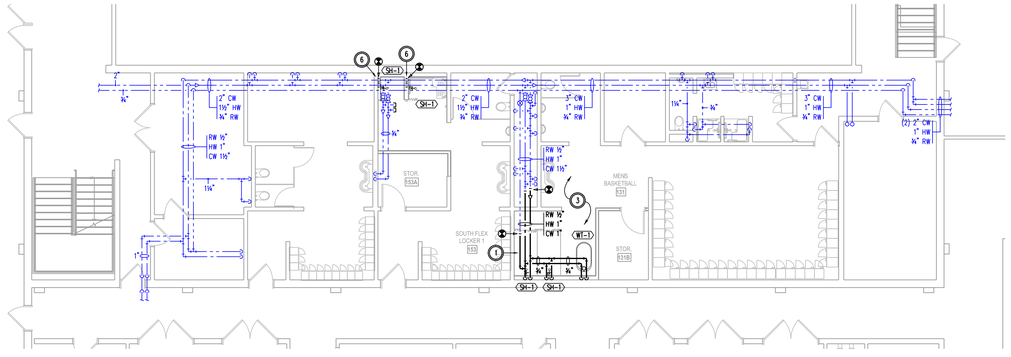
ATHLETIC TRAINING PLAN - ALTERNATE 02 - DOMESTIC PIPING 1/8" = 1'-0" | 03

PLAN NORTH



NORTH LOCKER ROOM PLAN - DOMESTIC PIPING 1/8" = 1'-0" | 01

PLAN NORTH



SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - DOMESTIC PIPING 1/8" = 1'-0" | 02

PLAN NORTH

GENERAL NOTES

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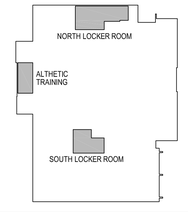
3. FIELD ORGANIZE AND INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC FOR MAXIMUM CLEARANCE AND MAINTENANCE ACCESSIBILITY. (ALL TRADES)
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. NEW PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.
6. INSTALL ALL PLUMBING WITHIN FRAMED WALLS OR ABOVE CEILING TIGHT TO OR WITHIN STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS AND REQUIREMENTS WITH OTHER TRADES PRIOR TO FABRICATION OF MATERIALS. PLAN OFFSETS AS REQ'D TO AVOID CONFLICTS WITH DUCTWORK AND STRUCTURE.
7. SLEEVE ALL WALL PENETRATIONS ALLOWING FOR FREE MOVEMENT DUE TO PIPE EXPANSION. SEAL PENETRATIONS THRU RATED CONSTRUCTION WITH A FIRE SAFE MATERIAL AND ALL OTHERS WITH AN ACOUSTIC CAULK. (TYPICAL)
8. FIXTURE LOCATIONS ARE SHOWN APPROXIMATE. CONFIRM ALL LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. CONFIRM CASEWORK DIMENSIONS WILL ACCOMMODATE FIXTURES PRIOR TO ORDERING FIXTURES.

KEY NOTES

1. ROUTE NEW DOMESTIC COPPER WATER LINE ABOVE THE CEILING AND ROUTE ACCORDINGLY TO EACH FIXTURE AS SHOWN. PROVIDE ISOLATION VALVES WHERE SHOWN. SET ALL BALANCING VALVES AT 0.5 GPM.
2. INSTALL SHOCK ARRESTOR IN THE CHASE OR ABOVE THE STORAGE ROOM FOR ACCESS.
3. ROUTE ALL DOMESTIC PIPING HIGH AND TIGHT TO THE STRUCTURE. COORDINATE WITH EXHAUST DUCTWORK.
4. PROVIDE AND INSTALL WHIRLPOOL FAUCET ABOVE EACH TUB. SECURE TO THE WALL AS REQ'D. CLEAN ALL EXPOSED COPPER ALONG THIS WALL AS THOUGH IT WILL INSTALLED WITH MICRO FIBER GLOVES AND UNTIL IT COULD BLIND AN OPPOSING PLAYERS EYES.
5. PROVIDE AN APPLIANCE CONNECTION BOX IN THIS WALL. COORDINATE EXACT HEIGHT WITH EXISTING ICE MAKER.
6. EXTEND 1/2" DOMESTIC WATER LINES DOWN IN WALL FRAMING FOR CONNECTION TO THIS SHOWER.

KEY PLAN



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Drawn By	KD
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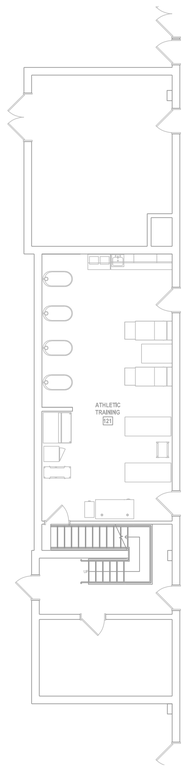
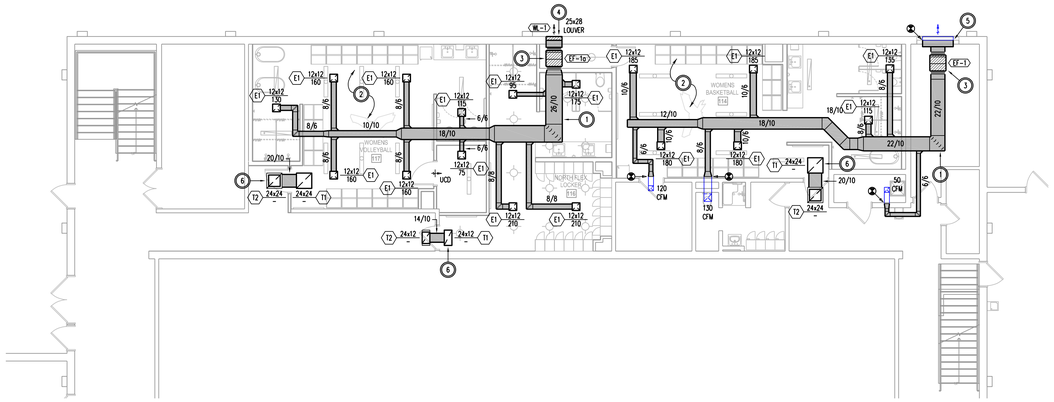
Sheet Name
MECHANICAL RENOVATION PLAN - DOMESTIC PIPING

M-301



PLAN NORTH

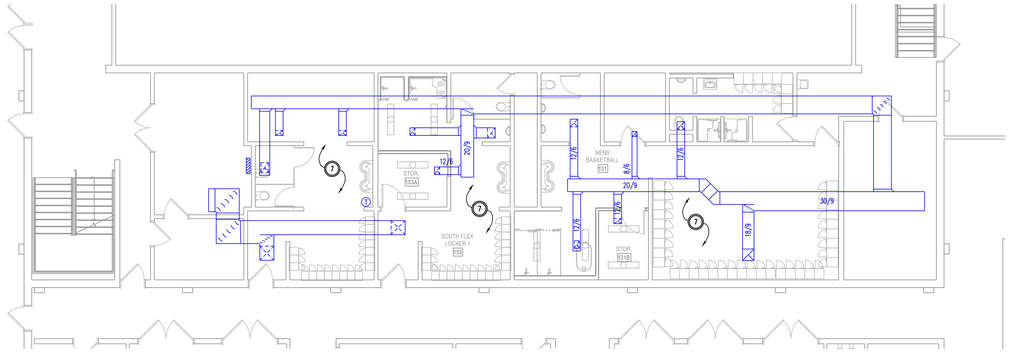
ATHLETIC TRAINING PLAN - ALTERNATE 02 - HVAC | 1/8" = 1'-0" | 03



(ALTERNATE 01 - CEILINGS)

PLAN NORTH

NORTH LOCKER ROOM PLAN - HVAC | 1/8" = 1'-0" | 01



PLAN NORTH

SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - HVAC | 1/8" = 1'-0" | 02

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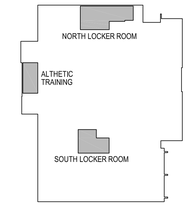
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. NEW PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.
6. OFFSET AND/OR TRANSITION DUCTWORK AROUND STRUCTURAL ELEMENTS AS REQUIRED. CONFIRM INTENTIONS WITH THE ENGINEER PRIOR TO FABRICATION.
7. INSTALL ALL DUCTWORK TIGHT TO OR WITHIN STRUCTURE, ABOVE WHERE POSSIBLE. COORDINATE LOCATIONS AND REQUIREMENTS WITH OTHER TRADES PRIOR TO FABRICATION.
8. COORDINATE ALL DIFFUSER LOCATIONS IN CEILING WITH ARCHITECTURAL PLANS. BASE BID AND ALTERNATE 01.

KEY NOTES

1. ALL DUCTWORK TO BE PAINT LOCK TYPE IN BASE BID. GALVANIZED FOR ALTERNATE 01.
2. ALL DUCTWORK TO BE INSTALLED HIGH AND TIGHT. COORDINATE WITH ALL OTHER TRADES TO ACHIEVE MAXIMUM CEILING HEIGHT AND CLEARANCES IN THESE SPACES.
3. FIELD LOCATE INLINE EXHAUST FAN IN THE DUCTWORK IN THESE ROOMS. SUPPORT AS REQ'D FROM THE CONCRETE STRUCTURE ABOVE. PROVIDE FLEX CONNECTIONS ON THE INLET AND OUTLET OF THE FAN. CONNECT TO NEW LOUVER PLENUM BOX AS REQ'D. KEEP THESE FANS HIGH UP IN THESE ROOMS.
4. INSTALL A NEW WALL LOUVER IN THIS EXISTING WINDOW OPENING. COORDINATE WINDOW REMOVAL WITH GC. SEAL LOUVER WEATHER TIGHT. TRANSITION PLENUM BOX AS NEEDED TO EXHAUST FAN.
5. PROVIDE A NEW PLENUM BOX ON THIS EXISTING LOUVER AND TRANSITION ACCORDINGLY TO THE EXHAUST FAN.
6. PROVIDE NEW LINED TRANSFER AIR GRILLES INTO EACH SPACE. ADJUST EXACT LOCATIONS BASED ON EXISTING CONDITIONS.
7. PROTECT THIS DUCTWORK AND DIFFUSERS FROM DAMAGE DURING CONSTRUCTIONS.

KEY PLAN



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CASPER COLLEGE LOCKER ROOMS

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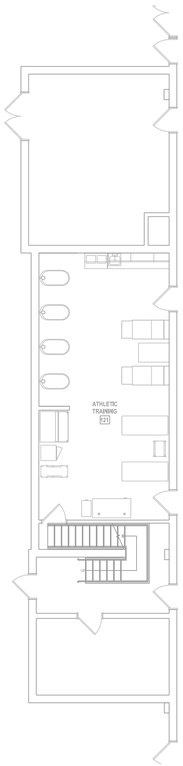
Project Number	24108.00/25119
Date	02/13/2026
Drawn By	KD
Checked By:	AE

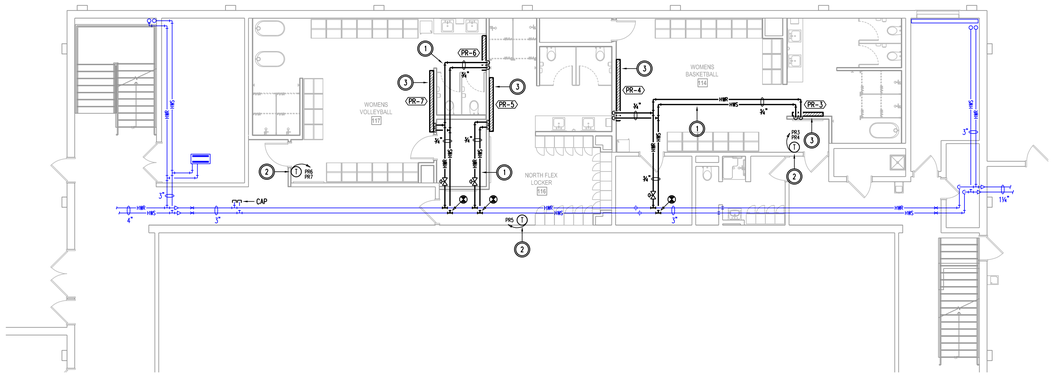
Sheet Name
MECHANICAL RENOVATION PLAN - HVAC

M-401



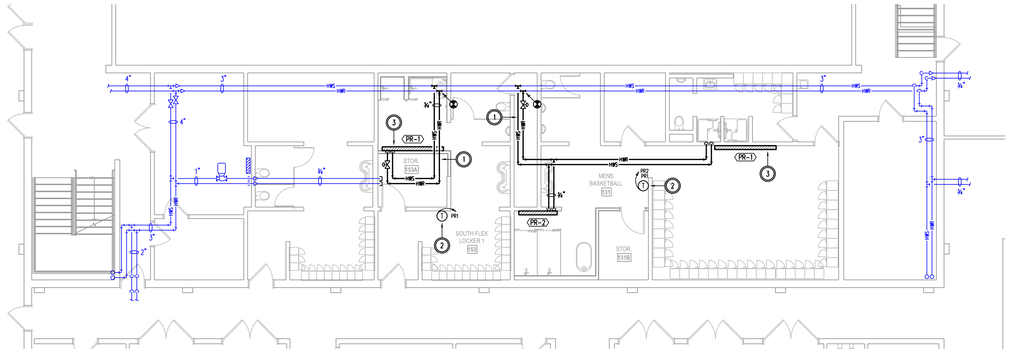
PLAN NORTH

ATHLETIC TRAINING PLAN - ALTERNATE 02 - HYDRONIC PIPING 1/8" = 1'-0" 03



PLAN NORTH

NORTH LOCKER ROOM PLAN - HYDRONIC PIPING 1/8" = 1'-0" 01



PLAN NORTH

SOUTH LOCKER ROOM PLAN - ALTERNATE 03 - HYDRONIC PIPING 1/8" = 1'-0" 02

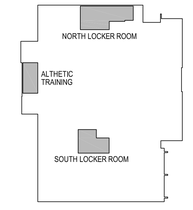
GENERAL NOTES

1. EXTG CONDITIONS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL CONDITIONS AND DIMENSIONS. NO EXTRAS WILL BE GIVEN FOR FAILURE TO INVESTIGATE.
2. MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. INCLUDE FOR A COMPLETE INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER.
3. FIELD ORGANIZE AND INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC FOR MAXIMUM CLEARANCE AND MAINTENANCE ACCESSIBILITY. (ALL TRADES)
4. EXISTING PIPING, DUCTWORK AND EQUIPMENT SHOWN LIGHT. NEW PIPING, DUCTWORK AND EQUIPMENT SHOWN BOLD.
5. EXISTING PIPING, DUCTWORK AND EQUIPMENT TO REMAIN OR THAT WHICH IS NOTED TO BE REUSED SHALL BE PROTECTED FROM DAMAGE.
6. INSTALL HEATING WATER LINES WITHIN FRAMED WALLS OR ABOVE CEILING TIGHT TO OR WITHIN STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS AND REQUIREMENTS WITH OTHER TRADES PRIOR TO FABRICATION OF MATERIALS. PLAN OFFSETS AS REQD TO AVOID CONFLICTS WITH DUCTWORK AND STRUCTURE.
7. SLEEVE ALL WALL PENETRATIONS ALLOWING FOR FREE MOVEMENT DUE TO PIPE EXPANSION. INSTALL CONTINUOUS PIPE INSULATION THRU SLEEVE. SEAL PENETRATIONS THRU RATED CONSTRUCTION WITH A FIRE SAFE MATERIAL. INSTALL ESCUTCHEONS AT ALL EXPOSED LOCATIONS.

KEY NOTES

1. ROUTE NEW HYDRONIC LINES HIGH AND TIGHT TO THE BOTTOM OF THE STRUCTURE. PROVIDE ISOLATION AT NEW TAKE-OFFS. GROUP UNITS AS SHOWN FOR A SINGLE CONTROL VALVE. ALL ACCESSORIES NEED TO BE LOCATED IN THE CEILING SPACE. PROVIDE ACCESS DOOR AS NEEDED IN ALTERNATE 01.
2. PROVIDE NEW DDC THERMOSTATS ON THE WALL IN THE LOCATIONS SHOWN. CONNECT BACK TO COLLEGE CONTROL CONTRACTOR SYSTEM. COORDINATE THIS WORK WITH DCI.
3. ALL PANEL RADIATORS SHALL BE INSTALLED CLEAN AND DRSP. NO EXPOSED PIPING OR VALVES SHALL BE SEEN IN THE ROOM. PROVIDE ALL END CAPS.

KEY PLAN



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REVISION	DATE
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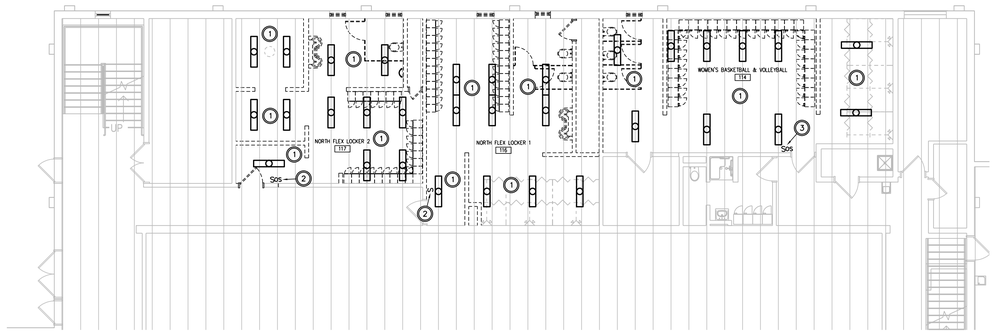
Drawn By	KD
Checked By:	AE

Sheet Name
MECHANICAL RENOVATION PLAN - HYDRONIC PIPING

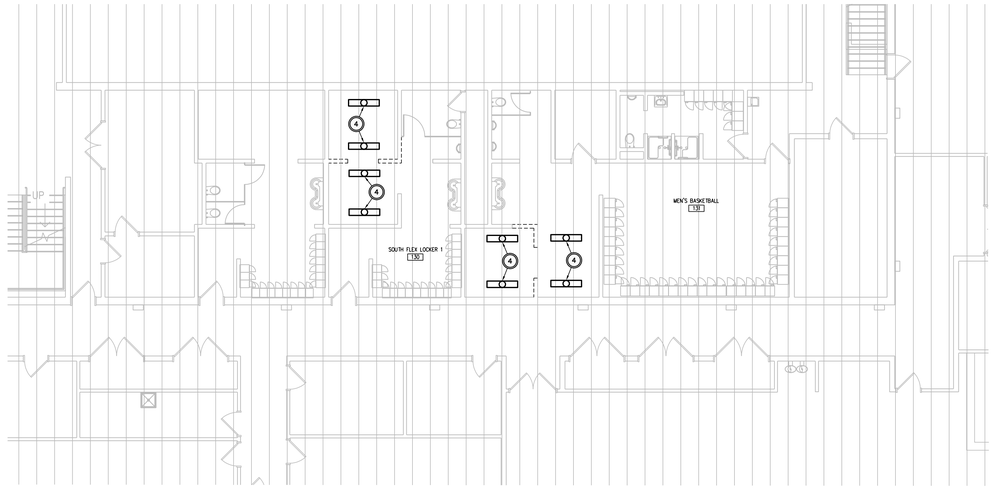
M-501

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
A	LIGHTING OUTLET – CEILING –––> – AIMING DIRECTION b – SWITCHING A – FIXTURE TYPE
	PENDANT LIGHT FIXTURE
	PORCELAIN KEYLESS FIXTURE
	LIGHTING OUTLET – WALL
	LIGHTING OUTLET – RECESSED
	EXIT LIGHT – WITH DIRECTIONAL ARROW
	STRIP LIGHT
	LIGHT FIXTURE – SURFACE OR PENDANT
	LIGHT FIXTURE – RECESSED
	LIGHTING FIXTURE WITH BATTERY BACKUP
	JUNCTION BOX – WALL
	JUNCTION BOX – CEILING
	JUNCTION BOX – FLOOR
EWC	DUPLEX RECEPTACLE EWC – ELECTRIC WATER COOLER
	DUPLEX RECEPTACLE – SPLIT WIRED
	DUPLEX RECEPTACLE – FLUSH FLOOR
	DUPLEX RECEPTACLE – GFCI
	DOUBLE DUPLEX RECEPTACLE
a	SPECIAL PURPOSE OUTLET a – INDICATES TYPE, SEE SPEC'S
	CLOCK
	TELEPHONE OUTLET – WALL
	DATA OUTLET
	DATA OUTLET (2)
	DATA/PHONE OUTLET
	DATA OUTLET– FLUSH FLOOR
S_3	SINGLE POLE SWITCH a – INDICATES SWITCHING 3 – THREE WAY P – WITH PILOT LIGHT TO – THERMAL OVERLOAD
	PUSHBUTTON SWITCH
	CIRCUIT RUN; CONCEALED IN CEILING OR WALL
	CIRCUIT RUN; UNDERFLOOR OR UNDERGROUND
A–3	HOME RUN A – PANEL DESIGNATION 3 – CIRCUIT NUMBER
	CONDUIT TURNS UP
	CONDUIT TURNS DOWN
	ELECTRICAL PANEL
	MAIN DISTRIBUTION PANEL
	TRANSFORMER
	FUSIBLE DISCONNECT SWITCH
	MAGNETIC STARTER OR CONTACTOR
	COMBINATION STARTER
M	MOTOR OUTLET AND CONNECTION
	FUSIBLE SWITCH – SCHEMATIC
	CIRCUIT BREAKER – SCHEMATIC
M	ELECTRIC METER
	GROUND
S	SPEAKER – RECESSED U.O.N. S – SURFACE W – WALL, +7'– 0" U.O.N. H – HORN TYPE, +8'– 0" U.O.N. F – FLUSH
	BELL
	TELEVISION OUTLET
	SMOKE DETECTOR – CEILING H – HEAT DETECTOR S – SMOKE W/SOUNDER BT – BEAM XMTR BR – BEAM RCVR
OS	OCCUPANCY SENSOR
	FIXED CCTV CAMERA
	PAN/TILT/ZOOM CAMERA
F	FIRE ALARM MANUAL STATION, +48" U.O.N.
F	FIRE ALARM AUDIO/VISUAL HORN, +7'– 6" U.O.N.
F	FIRE ALARM STROBE, +7'– 6" U.O.N.
F	FIRE ALARM BELL
D	MAGNETIC DOOR HOLDER
M	FIRE ALARM MONITOR/RELAY MODULE
C	FIRE ALARM CONTROL MODULE
R	REMOTE INDICATING PILOT LIGHT/TEST SWITCH
S	DUCT DETECTOR – SMOKE
TS	SPRINKLER SYS. TAMPER SW
FS	SPRINKLER SYS. FLOW SW
	NOTE SYMBOL
	SPECIAL EQUIPMENT SYMBOL
	MECHANICAL EQUIPMENT SYMBOL
WP	WEATHERPROOF
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
UON	UNLESS OTHERWISE NOTED
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
e	INDICATES EXISTING



WOMEN'S LOCKER ROOM - BASE BID - LIGHTING DEMOLITION PLAN — 1/8" = 1'-0" | 02



MEN'S LOCKER ROOM - ALTERNATE #3 - LIGHTING DEMOLITION PLAN — 1/8" = 1'-0" | 01

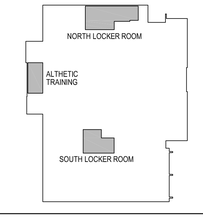
GENERAL NOTES

1. ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CURRENT ADOPTED NEC, STATE, AND LOCAL CODES.
2. CONTRACTORS ARE TO EXAMINE THE SITE AND DOCUMENTS OF OTHER TRADES, AND BECOME FAMILIAR WITH THE FULL SCOPE OF WORK.
3. IN AREAS LABELED FOR DEMOLITION ON ARCHITECTURAL PLANS, EC TO PROVIDE ELECTRICAL ASSISTANCE TO REMOVE, DISCONNECT, OR REPAIR TO PERMANENT SAFE CONDITION AS NEEDED. COORDINATE WITH GC AND MC.
4. IN THE PROCESS OF DEMOLITION, IF ANY HAZARDOUS MATERIALS ARE UNCOVERED, BRING IT TO THE ATTENTION OF THE ARCHITECT AND OWNER. DO NOT DISPOSE OF HAZARDOUS MATERIALS IMPROPERLY.
5. EC TO CUT OFF ABANDONED CONDUITS JUST BELOW FLOOR LEVEL AND GROUT TO UNFINISHED FLOOR GRADE.
6. LOCATION AND TYPE OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES REPRESENT THE 'BEST UNDERSTANDING' OF EXISTING CONDITIONS AND MAY NOT ACCURATELY OR EXACTLY REFLECT ALL EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE VERIFYING ELECTRICAL EQUIPMENT AND DEVICE INFORMATION PRIOR TO PREPARING AND SUBMITTING BIDS.
7. EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHT FIXTURES, SWITCHES, ETC. ARE TO BE REMAIN UNLESS NOTED OTHERWISE. WHERE DEMOLITION OF CERTAIN DEVICES DISRUPTS EXISTING CIRCUITING TO ACTIVE REMAINING DEVICES THE CONTRACTOR SHALL RE-ROUTE AND RECONNECT CIRCUITS TO THOSE REMAINING DEVICES AS REQUIRED.

DEMOLITION NOTES

1. EXISTING LIGHT FIXTURES IN ROOM NOTED REMOVED. EXISTING CIRCUIT LIGHTING CIRCUIT IS TO BE REUSED. REMOVE SURFACE MOUNTED CONDUIT AND WIRE IN ROOM AND REROUTE CIRCUIT FOR NEW FIXTURES. SEE RENOVATION DRAWINGS FOR NEW FIXTURE LOCATIONS.
2. EXISTING LIGHT SWITCH NOTED IS TO BE REMOVED. REMOVE EXISTING ACCESSIBLE CONDUIT AND WIRING BACK TO SOURCE.
3. EXISTING LIGHT SWITCH NOTED IS TO BE REPLACED WITH NEW IN SAME LOCATION. EXISTING WIRING MAY BE REUSED FOR NEW FIXTURES. SEE RENOVATION DRAWINGS.
4. EXISTING LIGHT FIXTURE NOTED IS TO BE RELOCATED. EXTEND EXISTING CIRCUITING TO NEW LOCATION. SEE RENOVATION DRAWINGS.

KEY PLAN



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Drawn By	KN
Checked By:	MNS

Sheet Name
ELECTRICAL DEMOLITION PLAN - LIGHTING

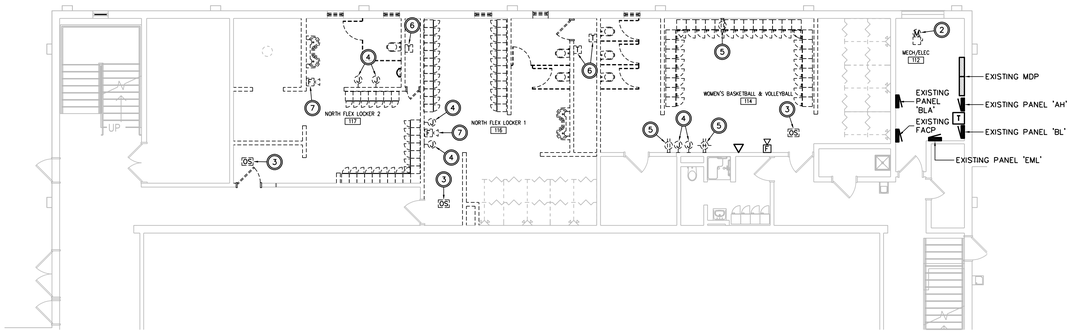
E-101

GENERAL NOTES

1. ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CURRENT ADOPTED NEC, STATE, AND LOCAL CODES.
2. CONTRACTORS ARE TO EXAMINE THE SITE AND DOCUMENTS OF OTHER TRADES, AND BECOME FAMILIAR WITH THE FULL SCOPE OF WORK.
3. IN AREAS LABELED FOR DEMOLITION ON ARCHITECTURAL PLANS, EC TO PROVIDE ELECTRICAL ASSISTANCE TO REMOVE, DISCONNECT, OR REPAIR TO PERMANENT SAFE CONDITION AS NEEDED. COORDINATE WITH GC AND MC.
4. IN THE PROCESS OF DEMOLITION, IF ANY HAZARDOUS MATERIALS ARE UNCOVERED, BRING IT TO THE ATTENTION OF THE ARCHITECT AND OWNER. DO NOT DISPOSE OF HAZARDOUS MATERIALS IMPROPERLY.
5. EC TO CUT OFF ABANDONED CONDUITS JUST BELOW FLOOR LEVEL AND GROUT TO UNFINISHED FLOOR GRADE.
6. LOCATION AND TYPE OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES REPRESENT THE 'BEST UNDERSTANDING' OF EXISTING CONDITIONS AND MAY NOT ACCURATELY OR EXACTLY REFLECT ALL EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE VERIFYING ELECTRICAL EQUIPMENT AND DEVICE INFORMATION PRIOR TO PREPARING AND SUBMITTING BIDS.
7. EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHT FIXTURES, SWITCHES, ETC. ARE TO BE REMAIN UNLESS NOTED OTHERWISE. WHERE DEMOLITION OF CERTAIN DEVICES DISRUPTS EXISTING CIRCUITING TO ACTIVE REMAINING DEVICES THE CONTRACTOR SHALL RE-ROUTE AND RECONNECT CIRCUITS TO THOSE REMAINING DEVICES AS REQUIRED.
8. ANY EXISTING PANELS MODIFIED UNDER THIS CONTRACT SHALL BE PROVIDED WITH A NEW TYPED CIRCUIT DIRECTORY.

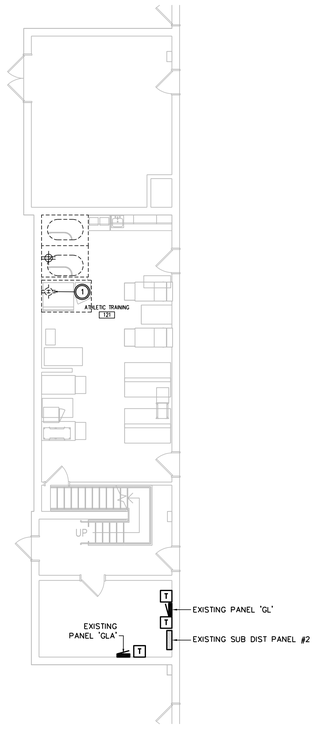
DEMOLITION NOTES

1. EXISTING ICE MAKER RECEPTACLE NOTED IS TO BE REMOVED. EXISTING CIRCUIT IS TO BE REUSED AND EXTENDED TO NEW RECEPTACLE LOCATION. SEE RENOVATION PLAN FOR NEW LOCATION.
2. EXISTING EXHAUST FAN IS TO BE REMOVED BY MC. DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO MDP. REMOVE EXISTING DISCONNECT.
3. EXISTING OCCUPANCY SENSOR IS TO BE REMOVED. DISCONNECT EXISTING ABANDONED CONDUIT AND WIRING AND REMOVE BACK TO SOURCE.
4. EXISTING HAND DRYER NOTED IS TO BE REMOVED. DISCONNECT EXISTING ABANDONED CONDUIT AND WIRING AND REMOVE BACK TO SOURCE.
5. EXISTING RECEPTACLE NOTED IS TO BE REMOVED. DISCONNECT EXISTING ABANDONED CONDUIT AND WIRING AND REMOVE BACK TO SOURCE.
6. EXISTING FLUSH VALVE TRANSFORMERS ARE TO BE REMOVED. EXISTING CIRCUIT IS TO BE REUSED AND EXTENDED TO NEW TRANSFORMER LOCATIONS. SEE RENOVATION DRAWINGS.
7. EXISTING FIRE ALARM HORN/STROBE IS TO BE RELOCATED. EXTEND EXISTING CIRCUIT TO NEW LOCATION. SEE RENOVATION DRAWINGS.



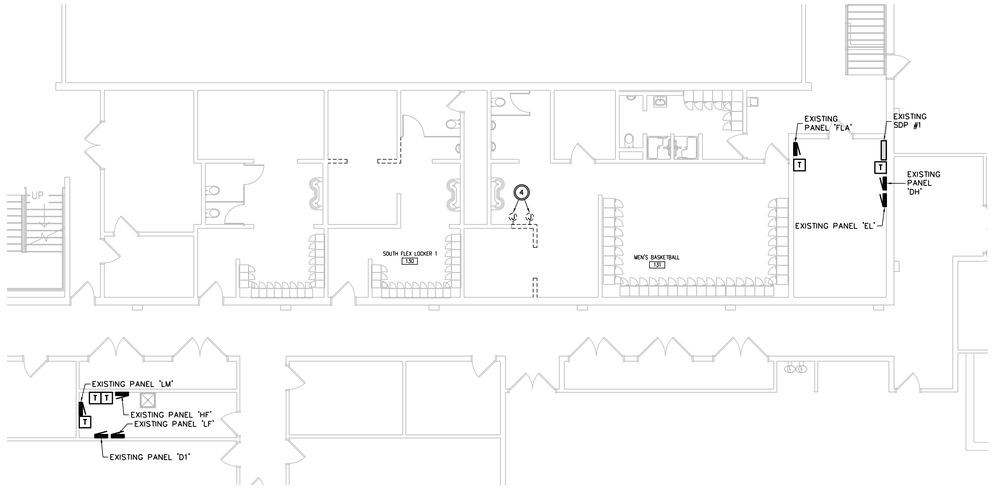
PLAN NORTH

WOMEN'S LOCKER ROOM - BASE BID - POWER DEMOLITION PLAN — 1/8" = 1'-0" | 03



PLAN NORTH

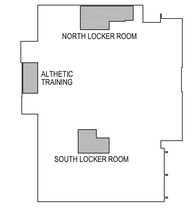
ATHLETIC TRAINING ROOM - ALTERNATE #2 - POWER DEMOLITION PLAN — 1/8" = 1'-0" | 02



PLAN NORTH

MEN'S LOCKER ROOM - ALTERNATE #3 - POWER DEMOLITION PLAN — 1/8" = 1'-0" | 01

KEY PLAN



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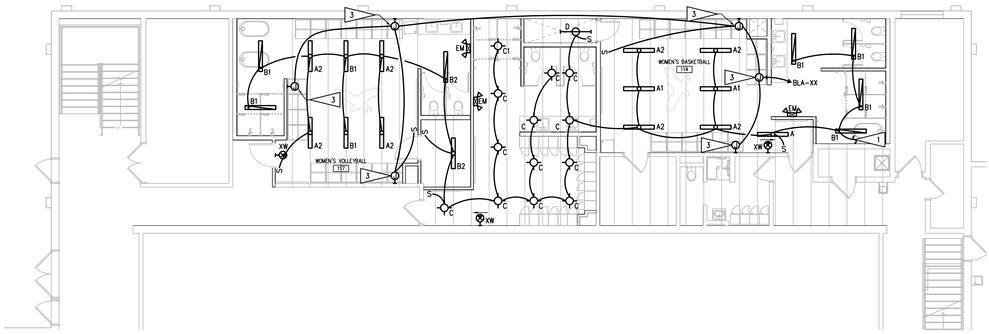
Checked By:	MNS

Sheet Name
ELECTRICAL DEMOLITION PLAN - POWER

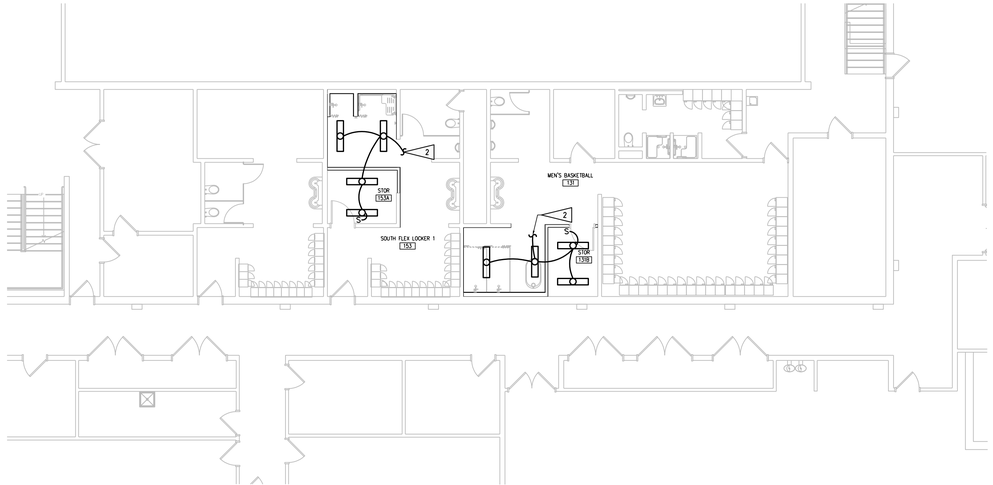
E-201

LIGHTING FIXTURE SCHEDULE

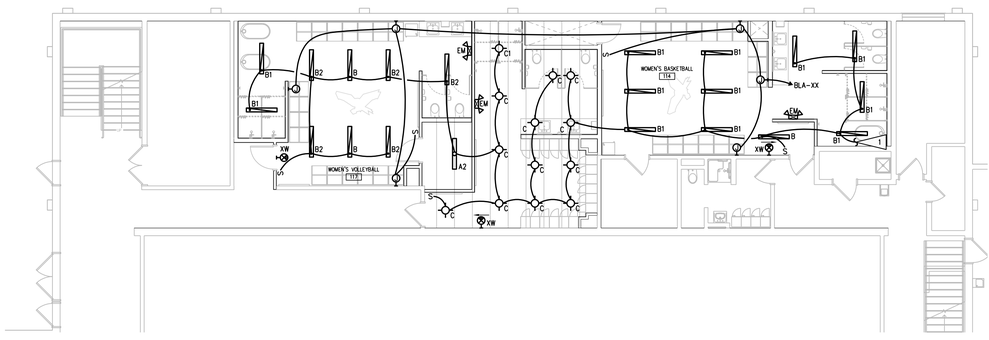
TYPE	LAMPS	DESCRIPTION	WATTAGE	TEMP	LUMENS	LIFE	FINISH	MOUNTING	MANUFACTURER	CATALOG NO.
A	LED	4' LONG SURFACE MOUNT LINEAR LED, 0-10V DIMMING	14	4000K	1,400	L80=60,000	WHITE	CEILING SURFACE	LUMENWERX	CAVSS-CO-RLO-LED-80-350-40-4FT-UNV-OHC
A1	LED	4' LONG SURFACE MOUNT LINEAR LED, 0-10V DIMMING	21	4000K	2,000	L80=60,000	WHITE	CEILING SURFACE	LUMENWERX	CAVSS-CO-RLO-LED-80-500-40-4FT-UNV-OHC
A2	LED	4' LONG SURFACE MOUNT LINEAR LED, 0-10V DIMMING	32	4000K	3,000	L80=60,000	WHITE	CEILING SURFACE	LUMENWERX	CAVSS-CO-RLO-LED-80-750-40-4FT-UNV-OHC
B	LED	4' LONG RECESSED LINEAR LED, 0-10V DIMMING, DRYWALL TRIM	12	4000K	1,400	L80=60,000	WHITE	CEILING RECESSED	LUMENWERX	CAVR-RLO-LED-80-350-40-4FT-UNV-DTR
B1	LED	4' LONG RECESSED LINEAR LED, 0-10V DIMMING, DRYWALL TRIM	17	4000K	2,000	L80=60,000	WHITE	CEILING RECESSED	LUMENWERX	CAVR-RLO-LED-80-500-40-4FT-UNV-DTR
B2	LED	4' LONG RECESSED LINEAR LED, 0-10V DIMMING, DRYWALL TRIM	25	4000K	3,000	L80=60,000	WHITE	CEILING RECESSED	LUMENWERX	CAVR-RLO-LED-80-750-40-4FT-UNVDTR
C	LED	4" DIAMETER DIRECT CYLINDER PENDANT, 0-10V DIMMING, SEMI-SPECULAR REFLECTOR, 90° FLOOD	14	4000K	1,110	L80=60,000	BLACK	PENDANT 16" FROM ROOF DECK	LUMENWERX	AE4SEALCYP-D-STR-BIN-FTMBE-BVLG-FSSPC-SW-90DEG-2STP-80CRI-40K-LFDL-UNV-14W-D1-1C-FLR-FTMBE-BKES16IN
C1	LED	4" DIAMETER DIRECT CYLINDER PENDANT, 0-10V DIMMING, SEMI-SPECULAR REFLECTOR, 90° FLOOD	28	4000K	2,080	L90=55,000	BLACK	PENDANT 16" FROM ROOF DECK	LUMENWERX	AE4SEALCYP-D-STR-BIN-FTMBE-BVLG-FSSPC-SW-90DEG-2STP-80CRI-40K-LFDL-UNV-28W-D1-1C-FLR-FTMBE-BKES16IN
D	LED	4' LONG LED STRIP LIGHT, CURVE FROSTED ACRYLIC LENS	32	4000K	4,614	L80=60,000	WHITE	SURFACE MOUNTED	COLUMBIA	MPS4-40ML-CW-EU
EM	LED	EMERGENCY EGRESS LUMINAIRE, NICKEL METAL HYDRIDE BATTERY, SELF-DIAGNOSTICS	(2) 1W			L70=100,000	WHITE	WALL SURFACE, +8'-0" AFF	DUAL-LITE	EV2I
XW	INCLUDED	EXIT/EGRESS COMBO SIGN WITH 6" LETTERS, HIGH IMPACT THERMOPLASTIC, HIGH INTENSITY LED LIGHT SOURCE, LITHIUM IRON PHOSPHATE BATTERY, UNIVERSAL MOUNTING FOR CEILING/WALL OR SINGLE/DOUBLE FACE	5	-	-	-	WHITE	WALL SURFACE ABOVE DOOR/WNDOW OR +7'-6" AFF	DUAL-LITE	EVCURW



WOMEN'S LOCKER ROOM - BASE BID - LIGHTING RENOVATION PLAN — 1/8" = 1'-0" | 03



MEN'S LOCKER ROOM - ALTERNATE #3 - LIGHTING RENOVATION PLAN — 1/8" = 1'-0" | 02



WOMEN'S LOCKER ROOM - ALTERNATE #1 - LIGHTING RENOVATION PLAN — 1/8" = 1'-0" | 01

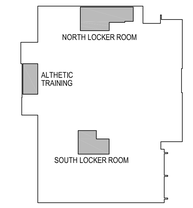
GENERAL NOTES

1. SEE SPECIFICATIONS FOR MATERIALS AND METHODS.
2. ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CURRENT ADOPTED NEC, STATE AND LOCAL CODES.
3. INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL CONDUITS.
4. CONTRACTORS ARE TO EXAMINE THE SITE AND DOCUMENTS OF OTHER TRADES, AND BECOME FAMILIAR WITH THE FULL SCOPE OF WORK.
5. DEVICE LOCATIONS ARE SHOWN DIAGRAMATICALLY, EC IS RESPONSIBLE FOR FINAL DEVICE LOCATIONS, COORDINATED WITH ALL ROOM INTERFERENCES.
6. ALL PENETRATIONS FOR RACEWAY AND WIRE WHICH ARE FURNISHED AND INSTALLED BY THE EC, THAT PENETRATE FLOORS, FIRE AND/OR SMOKE WALLS, AND FULL HEIGHT PARTITIONS (INCLUDING CHASE WALLS) SHALL BE SEALED WITH A SYSTEM SPECIFICALLY UL APPROVED FOR THE APPLICATION, TO MAINTAIN FIRE RATING.
7. CONNECT NEW EXIT/EGRESS LIGHT FIXTURES TO UNSWITCHED LIGHTING CIRCUIT IN SAME ROOM.

FLAG NOTES

1. CONNECT NEW LIGHTING CIRCUIT NOTED EXISTING NORTH LOCKER ROOM LIGHTING CIRCUIT AH-4.
2. RECONNECT RELOCATED EXISTING LIGHT FIXTURES TO EXISTING SWITCHED LIGHTING CIRCUIT IN SAME ROOM.
3. LOCKER NAMEPLATE LIGHTS PROVIDED BY LOCKER MANUFACTURER. CONNECT AS DIRECTED BY MANUFACTURER TO CIRCUIT SHOWN VIA WALL SWITCH.

KEY PLAN



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CASPER COLLEGE LOCKER ROOMS

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Professional Engineer (Electrical) — MONTE N. SCHAD — 10099 — WYOMING — Date 2/13/26

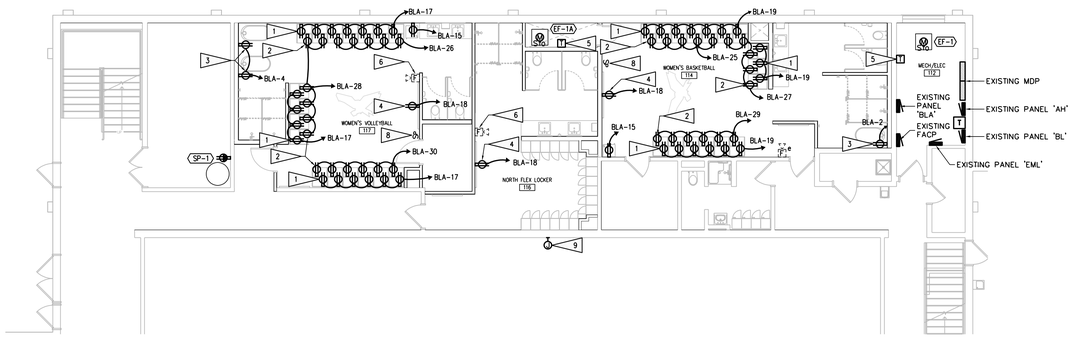
REVISION	DATE
PERMIT DOCUMENTS	

Project Number	24108.00/25119
Date	02/13/2026
Drawn By	KN
Checked By:	MNS

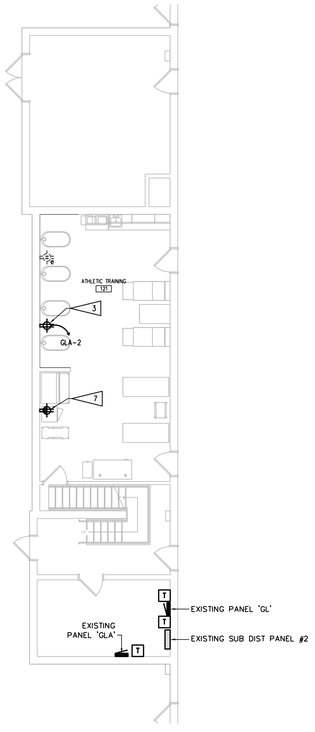
Sheet Name
ELECTRICAL RENOVATION PLAN - LIGHTING

E-301

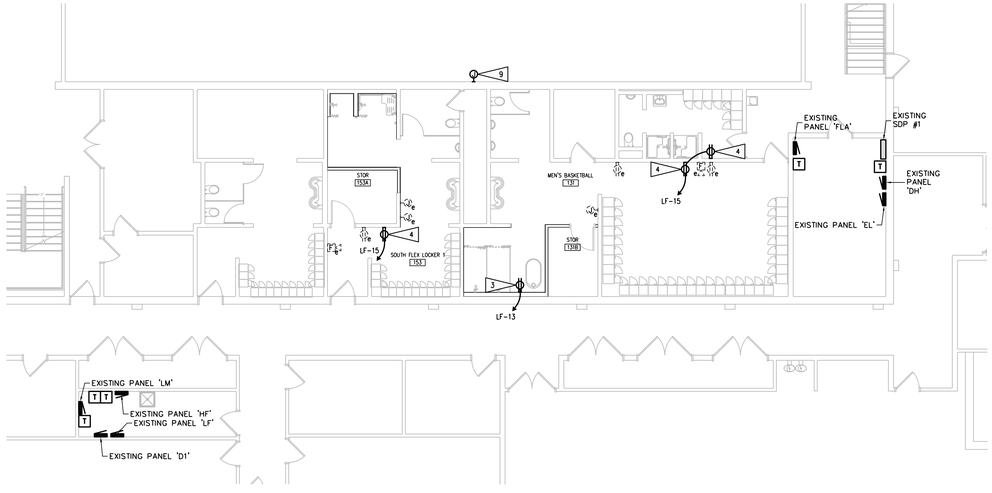
MECHANICAL EQUIPMENT SCHEDULE									
KEY	ITEM	LOAD	VOLTS	Φ	CONDUIT	WIRING	BRKR	CIRCUIT NUMBER	NOTES
EF-1	EXHAUST FAN - 1	1/2 HP	120	1	1/2"	2#10+#10 GND	30/1	BLA-6	FACTORY PROVIDED DISCONNECT
EH-1	EXHAUST FAN - 2	1/4 HP	120	1	1/2"	2#10+#10 GND	30/1	BLA-6	FACTORY PROVIDED DISCONNECT
SP-1	SUMP PUMP - 1	1/3 HP	120	1	1/2"	2#12+#12 GND	20/1	BLA-8	PROVIDE NEMA 5-20R GFCI, VERIFY LOCATION WITH MC PRIOR TO INSTALLATION



WOMEN'S LOCKER ROOM - BASE BID - POWER RENOVATION PLAN — 1/8" = 1'-0" — 03



ATHLETIC TRAINING ROOM - ALTERNATE #2 - POWER RENOVATION PLAN — 1/8" = 1'-0" — 02



MEN'S LOCKER ROOM - ALTERNATE #3 - POWER RENOVATION PLAN — 1/8" = 1'-0" — 01

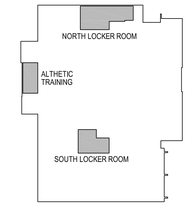
GENERAL NOTES

1. SEE SPECIFICATIONS FOR MATERIALS AND METHODS.
2. ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CURRENT ADOPTED NEC, STATE AND LOCAL CODES.
3. INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL CONDUITS.
4. CONTRACTORS ARE TO EXAMINE THE SITE AND DOCUMENTS OF OTHER TRADES, AND BECOME FAMILIAR WITH THE FULL SCOPE OF WORK.
5. DEVICE LOCATIONS ARE SHOWN DIAGRAMATICALLY, EC IS RESPONSIBLE FOR FINAL DEVICE LOCATIONS, COORDINATED WITH ALL ROOM INTERFERENCES.
6. ALL PENETRATIONS FOR RACEWAY AND WIRE WHICH ARE FURNISHED AND INSTALLED BY THE EC, THAT PENETRATE FLOORS, FIRE AND/OR SMOKE WALLS, AND FULL HEIGHT PARTITIONS (INCLUDING CHASE WALLS) SHALL BE SEALED WITH A SYSTEM SPECIFICALLY UL APPROVED FOR THE APPLICATION, TO MAINTAIN FIRE RATING.

FLAG NOTES

1. NEW LOCKER RECEPTACLE FOR LOCKER SHOE DRAWER FAN BY LOCKER MANUFACTURER. CONNECT TO CIRCUIT SHOWN. VERIFY INSTALLATION REQUIREMENTS WITH LOCKER MANUFACTURER. TYPICAL OF ALL LOCKERS. CONNECT VIA SWITCH SEE FLAG NOTE 8.
2. NEW LOCKER RECEPTACLE BY LOCKER MANUFACTURER. CONNECT TO CIRCUIT SHOWN. VERIFY INSTALLATION REQUIREMENTS WITH LOCKER MANUFACTURER. TYPICAL OF ALL LOCKERS.
3. INSTALL RECEPTACLE NOTED FOR NEW WHIRLPOOL AT 48" AFF. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
4. NEW DAKTRONICS CLOCK DISPLAY BY OWNER. INSTALL RECEPTACLE NOTED IN WALL BEHIND DISPLAY AS DIRECTED BY MANUFACTURER. INSTALL W-1234 SIGNAL CABLE FROM BACK OF DISPLAY TO RADIO RECEIVER LOCATED IN GYM PER MANUFACTURER. INSTALL CABLE IN 1/2" CONDUIT. SEE ARCHITECTURAL DRAWINGS FOR DISPLAY LOCATIONS.
5. NEW TRANSFORMERS FOR TOILET FLUSH VALVES BY MC. CONNECT TO EXISTING FLUSH VALVE TRANSFORMER CIRCUIT. VERIFY REQUIREMENTS AND LOCATIONS WITH MC.
6. RELOCATED FIRE ALARM HORN/STROBE. RECONNECT TO EXISTING FIRE ALARM CIRCUIT.
7. NEW ICE MAKER RECEPTACLE. CONNECT TO EXISTING ICE MAKER RECEPTACLE CIRCUIT. INSTALL AT 45" AFF.
8. PROVIDE PILOT LIGHT SWITCH TO CONTROL CIRCUIT FOR LOCKER SHOE DRAWER FANS.
9. CLOCK DISPLAY RADIO RECEIVER PROVIDED BY OWNER. LOCATE IN DIRECT LINE SIGHT OF THE CLOCK CONTROLLER PER MANUFACTURERS DIRECTIONS. COORDINATE WITH OWNER.

KEY PLAN



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Professional Engineer (Electrical) MONTE N. SCHAFF 10099 WYOMING Date 2/13/26

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Sheet Name
ELECTRICAL RENOVATION PLAN - POWER

E-401

ELECTRICAL SPECIFICATIONS

DRAWINGS AND MEASUREMENTS: THE DRAWINGS ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS NOR TO SERVE AS SHOP DRAWINGS. THE CONTRACTOR SHALL CONSULT EXISTING CONDITIONS AND EQUIPMENT DRAWINGS FOR DIMENSIONS, OBSTRUCTIONS AND LOCATIONS OF EQUIPMENT, PANELS, CABINETS, AND SPECIAL EQUIPMENT ARE SHOWN ON THE DRAWINGS ONLY IN A SCHEMATIC MANNER AND NOT NECESSARILY IN THEIR SPECIFIC LOCATION. COORDINATE WITH GENERAL CONTRACTOR.

ORDINANCES, PERMITS, AND CODES: ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY ELECTRICAL ORDINANCES, OSHA, STATE ELECTRICAL LAWS AND STATUTES AND NATIONAL ELECTRICAL CODE (NEC) AND BE SUBJECT TO THE INSPECTION OF THESE DEPARTMENTS. ALL FEES, PERMITS, LICENSES, ETC., NECESSARY IN ORDER TO COMPLETE THE WORK OF THIS SECTION SHALL BE PAID BY THIS CONTRACTOR.

WORKMANSHIP: THE INSTALLATION WORK INCLUDED IN THIS SPECIFICATION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER BY MEN EXPERIENCED AND SKILLED IN THE ELECTRICAL TRADE. ONLY THE BEST QUALITY WORKMANSHIP WILL BE ACCEPTED. ALL EXPOSED PARTS OF THE ELECTRICAL WIRING SYSTEMS SUCH AS EXPOSED CONDUITS, FLUSH PLATES, CABINET TRIM, FIXTURES, ETC., SHALL BE SQUARE AND TRUE WITH THE BUILDING CONSTRUCTION.

SHOP DRAWINGS: SHOP DRAWINGS MUST BE SUBMITTED FOR ALL MATERIALS AND EQUIPMENT UNLESS OTHERWISE STATED. NO SHOP DRAWINGS ARE REQUIRED FOR CONDUIT AND WIRE. SHOP DRAWINGS MUST FIRST BE CHECKED BY THE CONTRACTOR FOR SPACE CONFORMANCE AND FOR PERFORMANCE CHARACTERISTICS ESTABLISHED BY PLANS AND/OR SPECIFICATION, AND SO STAMPED. CONTRACTOR'S STAMP SHALL INCLUDE NAME AND ADDRESS OF CONTRACTOR, SPECIFICATION PARAGRAPH, AND THE FOLLOWING STATEMENT: "ITEM(S) HAS (HAVE) BEEN CHECKED FOR COMPLIANCE WITH SPECIFICATION REQUIREMENTS AND SPACE LIMITATIONS AND WILL MEET THESE CONDITIONS; CHECKED BY; DATE." SHOP DRAWINGS NOT STAMPED AS SPECIFIED WILL BE RETURNED TO THE CONTRACTOR WITHOUT ACTION.

OPERATING AND MAINTENANCE INSTRUCTIONS: PREPARE AN ELECTRONIC PORTFOLIO WITH A COMPLETE SET OF EQUIPMENT SHOP DRAWINGS USED IN THE INSTALLATION OF THE ELECTRICAL SYSTEM. PROVIDE TESTING, CLEANING, AND MAINTENANCE INSTRUCTIONS, A LIST OF MATERIALS FOR MAINTENANCE, PARTS LISTS, WIRING DIAGRAMS, CONTROL DIAGRAMS, BALANCE REPORTS, AND NAME AND ADDRESS OF THE AUTHORIZED SERVICE ORGANIZATION. ALSO INCLUDE ONE SET OF AS-BUILT DRAWINGS. INFORMATION SHALL BE SUBMITTED IN ELECTRONIC FORMAT WITH BOOKMARKS SEPARATING EACH SECTION. ALL MATERIAL SHALL BE PROPERLY IDENTIFIED WITH JOB NAME, DATE, AND NAME AND ADDRESS OF CONTRACTOR, ARCHITECT, AND ENGINEER. PORTFOLIO SHALL BE SUBMITTED TO THE A/E FOR REVIEW OF MATERIAL AND COMPLETENESS TWO WEEKS PRIOR TO THE FINAL INSPECTION, AND WHEN APPROVED BY THE ENGINEER, PORTFOLIO WILL BE TURNED OVER TO THE OWNER. CONTRACTOR SHALL INSTRUCT OWNER'S PERSONNEL IN THE OPERA-TION, CONTROL, AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS.

AS-BUILT DRAWINGS: DURING CONSTRUCTION, EACH TRADE SHALL KEEP TRACK OF THE MAJOR CHANGES IN AND REROUTING OF CONDUIT AND EQUIPMENT, AND SHALL NOTE THESE IN RED ON ONE SET OF DRAWINGS. THIS SET OF DRAWINGS SHALL BE SUBMITTED WITH THE OPERATION AND MAINTENANCE MANUALS NEAR THE COMPLETION OF THIS PROJECT.

GUARANTEE: THIS CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEFECTS WHICH MAY DEVELOP IN ANY PART OF HIS WORK CAUSED BY FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, AND AGREES TO REPLACE, REPAIR, OR ALTER, AT HIS EXPENSE, ANY SUCH FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT THAT HAS BEEN BROUGHT TO HIS ATTENTION DURING A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL CERTIFICATE FOR PAYMENT. ACCEPTANCE OF THE WORK SHALL NOT WAIVE THIS GUARANTEE.

QUALITY ASSURANCE: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF BEST QUALITY, OF THE TYPE BEST SUITED FOR THE PURPOSE INTENDED, AND BE MADE BY NATIONALLY RECOGNIZED AND SUBSTANTIALLY ESTABLISHED MANUFACTURERS. ALL ELECTRICAL MATERIALS USED IN THIS WORK SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC., WHERE TESTING IS PROVIDED AND SHALL BEAR THEIR LABEL.

REMODELING WORK: THIS CONTRACTOR SHALL VISIT EXISTING BUILDING BEFORE STARTING THE PROJECT AND BECOME FAMILIAR WITH EXISTING CONDITIONS. WIRING IN EXISTING BUILDING SHALL REMAIN AS IS EXCEPT AS NOTED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL UNUSED WIRES AND UNUSED CONDUIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW PANEL SCHEDULES FOR ALL EXISTING PANELS THAT HAVE CIRCUITS MODIFIED OR ADDED AS A PART OF THIS PROJECT.

CUTTING AND PATCHING: IN EXISTING CONSTRUCTION THIS CONTRACTOR SHALL PERFORM ALL CUTTING REQUIRED AND ALL NECESSARY PATCHING AFTER COMPLETION TO RESTORE THE SURFACE TO ITS ORIGINAL CONDITION, UNLESS OTHERWISE INDICATED. THIS CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE BY CUTTING OR DIGGING.

EQUIPMENT IDENTIFICATION AND CLEANUP: ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH IDENTIFICATION INDICATING ITS USE OR FUNCTION. EQUIPMENT TO BE IDENTIFIED SHALL INCLUDE PANELBOARDS, SPECIAL PANELS, MOTOR STARTERS, SPECIAL CONTROL SWITCHES, SPECIAL RECEPTACLES, JUNCTION BOXES AND EMPTY CONDUITS PROVIDED FOR FUTURE USE. ALL ELECTRICAL EQUIPMENT MUST BE KEPT COMPLETELY PROTECTED FROM WEATHER ELEMENTS, PAINTING, ETC. UNTIL THE BUILDING IS SUBSTANTIALLY COMPLETED. DAMAGE FROM RUST, PAINT, SCRATCHES, ETC., SHALL BE CORRECTED AS DIRECTED BY THE A/E.

RACEWAY: ALL WIRING SHALL BE INSTALLED IN RACEWAY; RIGID METAL CONDUIT, ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR PVC. HEAVY WALL, GALVANIZED STEEL, OR INTERMEDIATE STEEL CONDUIT SHALL BE USED IN ALL RUNS WHERE REQUIRED FOR MECHANICAL PROTECTION, EMT MAY BE USED IN FURRED CEILING AREAS, INTERIOR PARTITIONS, AND SURFACE MOUNTED IN EQUIPMENT ROOMS. EMT SHALL NOT BE USED IN SLAB ON GRADE OR WHERE EXPOSED TO MOISTURE OR EARTH. ALL EXTERIOR CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID STEEL OR INTERMEDIATE METAL CONDUIT.

RACEWAY FITTINGS: ON ALL CONDUIT SYSTEMS THE CONNECTOR FITTING SHALL BE OF THE INSULATED THROAT TYPE, WHERE RIGID CONDUIT IS CONNECTED TO A THREADLESS BOX, DOUBLE LOCKNUT METHOD SHALL BE USED. ALL CONDUIT FITTINGS SHALL BE OF STEEL CONSTRUCTION. MALLEABLE IRON FITTINGS SHALL NOT BE USED ON ANY CONDUITS. INDENTER FITTINGS SHALL NOT BE USED FOR EMT. SET SCREW FITTINGS MAY BE USED FOR EMT IN DRY LOCATIONS.

RACEWAY INSTALLATIONS: CONDUITS SHALL BE SIZED AS NOTED OR AS REQUIRED BY NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED EXCEPT THAT 3/4 INCH SHALL BE MINIMUM SIZE FOR BRANCH CIRCUIT HOMERUNS. ALL CONDUIT AND RACEWAYS SHALL BE SECURELY POSITIONED BY GALVANIZED STEEL STRAPS, CLAMPS, AND HANGERS WITH SUITABLE FASTENINGS. CADDY FASTENER'S AS MANUFACTURED BY ERICO PRODUCTS ARE ACCEPTABLE SUPPORT DEVICES WHERE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. EXPOSED CONDUITS SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO CONSTRUCTION LINES AND NEATLY GROUPED AND SUPPORTED WITH APPROVED CONDUIT HANGERS OR CHANNEL SUPPORTS. UNDERGROUND CONDUIT SHALL BE RUN POINT-TO-POINT.

GROUNDING AND BONDING: PROVIDE A SEPARATE, INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR FOR ALL NEW FEEDERS; RECEPTACLES; LIGHTING; AND SPECIAL EQUIPMENT CONNECTIONS. WHERE GROUND CONDUCTORS ARE REQUIRED, CONDUIT SIZES SHALL BE INCREASED AS NECESSARY TO MET THE NEC CONDUIT FILL REQUIREMENTS. PROVIDE BONDING OF ALL RACEWAYS 2" AND LARGER; PIPE; DUCT; AND OTHER METAL OBJECTS ENTERING EQUIPMENT ENCLOSURES. USE BARE COPPER CONDUCTOR, SIZED PER NEC REQUIREMENTS. TERMINATE EACH END OF A GROUNDING OR BONDING CONDUCTOR ON A SUITABLE LUG, BUS, OR BUSHING.

WIRE AND CABLE: ALL WIRE AND CABLE FOR FEEDER AND BRANCH CIRCUITS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE NEC AND SHALL MEET ALL RELEVANT ASTM SPECIFICATIONS. CONDUCTORS SHALL BE 600 VOLT RATED, COATED SOFT-DRAWN COPPER AND UNSOFT-DRAWN COPPER AND UNLESS OTHERWISE NOTED, SHALL HAVE TYPE THWN OR THHN INSULATION. ALUMINUM CONDUCTORS SHALL NOT BE USED. ALL 120V CIRCUITS SHALL BE PROVIDED WITH SEPARATE, DEDICATED NEUTRAL CONDUCTORS. CONTRACTOR SHALL INCREASE CONDUIT SIZE AS REQUIRED TO MEET NEC CONDUIT FILL REQUIREMENTS.

CONNECTIONS TO SPECIAL EQUIPMENT: SPECIAL EQUIPMENT IS HEREBY DEFINED AS ALL EQUIPMENT THAT IS NOT SPECIFIED UNDER THIS CONTRACT, BUT REQUIRES CONNECTIONS BY THIS CONTRACTOR, AS INDICATED ON THE DRAWINGS. SUCH CONNECTIONS SHALL BE PERFORMED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL VERIFY THE LOCATIONS OF SUCH CONNECTION BY SECURING FROM THE EQUIPMENT SUPPLIER'S TEMPLATES, DETAIL DRAWINGS AND ROUGHING IN MEASUREMENTS. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR RESPONSIBLE FOR FURNISHING SUCH EQUIPMENT IS ALSO RESPONSIBLE FOR SETTING THE EQUIPMENT IN PLACE.

PULL BOXES AND JUNCTION BOXES: PULL BOXES AND JUNCTION BOXES ARE GENERALLY NOT INDICATED ON DRAWINGS EXCEPT FOR SPECIAL REQUIREMENTS. THIS CONTRACTOR SHALL INSTALL PULL BOXES OR JUNCTION BOXES AS REQUIRED TO FACILITATE WIRE PULLING. PULL BOXES AND JUNCTION BOXES SHALL BE GALVANIZED CODE GAUGE STEEL WITH REMOVABLE OR HINGED COVERS AND SHALL BE SIZED AS REQUIRED. PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE INSTALLED IN FINISHED SPACES.

OUTLET BOXES: OUTLET BOXES SHALL BE AT LEAST 1-1/2 INCHES DEEP, OR GANG STYLE TYPE OF SIZE TO ACCOMMODATE DEVICES NOTED. OUTLET BOXES ON EXPOSED CONDUIT RUNS IN UNFINISHED AREAS AND EQUIPMENT ROOMS SHALL BE 4 INCH SQUARE. ALL OUTLET BOXES SHALL BE CONCEALED EXCEPT WHERE SHOWN OR NOTED OTHERWISE. THIS CONTRACTOR SHALL VERIFY TYPE AND DEPTH OF FINISHED SURFACE SO THAT OUTLET WILL BE FLUSH.

SAFETY SWITCHES: SHALL BE HEAVY DUTY 250 VOLT, QUICK-MAKE, QUICK-BREAK OPERATION, HORSEPOWER RATED, SERVICE ENTRANCE RATED, NEMA-1 ENCLOSURE FUSED UNLESS NOTED NON-FUSED, AND OF THE SIZE SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE. SAFETY SWITCHES SHALL BE OF THE SAME MANUFACTURE AS PANELBOARDS AND WHERE SHOWN AS WEATHERPROOF SHALL HAVE A NEMA 3R ENCLOSURE.

FUSES: ALL MOTORS SHALL BE PROTECTED BY DUAL-ELEMENT FUSES ABLE TO CARRY 500% OF RATING FOR A MINIMUM OF 10 SECONDS, AND SIZED AT 125% OF THE ACTUAL NAME PLATE AMPERE RATING. FUSES SHALL BE BUSSMAN-FUSETRON, FRN (250V), OR EQUAL.

MOTOR AND EQUIPMENT WIRING: THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MOTOR STARTERS EXCEPT IN PACKAGE OR PREWIRED UNITS AS SHOWN ON DRAWINGS. ALL MOTORS WILL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, BUT SHALL BE CONNECTED BY THE ELECTRICAL CONTRACTOR. SINGLE PHASE FRACTIONAL HORSEPOWER MOTORS SHALL HAVE MANUAL THERMAL ELEMENT STARTERS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL MOTORS HAVE THE PROPER THERMAL OVERLOAD PROTECTION. ALL STARTERS FOR SINGLE-PHASE MOTORS NOT REQUIRING OVERLOAD PROTECTION SHALL BE SIERRA SERIES NO. 5011. ALL STARTERS REQUIRING OVERLOAD PROTECTION SHALL BE SQUARE D, CLASS 2510, OR EQUAL, NEMA 1.

WIRING DEVICES: SWITCH OUTLET - 20A, 120/277V, HUBBELL #1221 SERIES OR EQUIVALENT, WHITE. RECEPTACLE OUTLET - 20A, 120V, 2 WIRE GROUNDING, "PLUG TAIL", PASS & SEYMOUR #PT5362A-W, WHITE. GROUND FAULT RECEPTACLE OUTLET - 20A, 120V, 2 WIRE GROUNDING, WHITE, HUBBELL #HBL5362GF OR EQUIVALENT. OUTLET PLATES - FINISHED AREAS SHALL HAVE STAINLESS STEEL, TYPE 302 COVERPLATES.

LIGHTING FIXTURES: PROVIDE LIGHTING FIXTURES AND DRIVERS AS SCHEDULED ON THE DRAWINGS. ALL LIGHT FIXTURES SHALL BE DLC LISTED OR ACCEPTED BY ROCKY MOUNTAIN POWER'S INCENTIVE PROGRAM. CONTRACTOR IS RESPONSIBLE AND SHALL COORDINATE WITH OWNER & ROCKY MOUNTAIN POWER TO PROVIDE ALL NECESSARY DOCUMENTATION FOR OWNER TO RECEIVE ALL AVAILABLE LIGHTING INCENTIVES.

TEMPERATURE CONTROL EQUIPMENT: FURNISH AND INSTALL CONDUIT, WIRE AND CONNECTIONS FOR TEMPERATURE CONTROL EQUIPMENT AS INDICATED. ALL THERMOSTATS WILL BE FURNISHED TO THIS CONTRACTOR FOR ROUGH-IN AND INSTALLATION. THIS CONTRACTOR SHALL COORDINATE ALL TEMPERATURE CONTROL REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH-IN WORK.

EXISTING PANEL 'BLA'

MAIN : 100A MCB | VOLTS: 120/208 | AIC RATING: 10,000 | MOUNTING: SURFACE | PHASES: 3 | WIRE: 4 | LOCATION: ELEC 118 | NEMA: 1

NOTES: 1) *EXISTING CIRCUIT TO REMAIN. 2) +NEW CIRCUIT, PROVIDE NEW BREAKER. 3) -NEW CIRCUIT, REUSE EXISTING BREAKER.

CKT	LOAD DESCRIPTION	LOAD TYPE	LOAD	WIRE SIZE	BRKR AMP	POLE	A	B	C	POLE	BRKR AMP	WIRE SIZE	LOAD	LOAD TYPE	LOAD DESCRIPTION	CKT
1	*HAND DRYER RM 115			#10	30	1	720			1	20 GFCI	#12	720	M	+WOMEN'S BB WHIRLPOOL	2
3	*CH-4 & P-10			#12	20	1		1440		1	20 GFCI	#12	1440	M	+WOMEN'S VB WHIRLPOOLS	4
5	SPARE			#10	30	1			1872	1	30	#12	1872	M	-EXHAUST FAN-1 AND 1A	6
7	*GYM CURTAIN/ GYM LT RLY			#12	20	1	864			1	20	#12	864	M	+SUMP PUMP-1	8
9	*CONCESSION ICE MACH			#12	20	1		0		1	30	#10			SPARE	10
11	*SELF-SERVE PEPSI MACHINE			#12	20	2			0	1	20	#12			*LOBBY POP MACHINE	12
13	*CONCESSION FRIDGE			#12	20	2	0			1	20	#12			*UNKNOWN	14
15	LOCKER ROOM FRIDGES	M	1000	#12	20 GFCI	1		1000		1	20	#12			*UNKNOWN	16
17	+WOMEN'S BB LOCKER FANS	M	119	#12	20 GFCI	1			119	1	20	#12			-LOCKER RM DIGITAL CLOCKS	18
19	+WOMEN'S BB LOCKER FANS	R	112	#12	20 GFCI	1	112			2	40	#8			*NORTH BLEACHERS	20
21	*NORTH BLEACHERS			#8	40	2		0		2	40	#8			*NORTH BLEACHERS	22
23	*NORTH BLEACHERS			#8	40	2			0	1	20	#12			*NW PUMP COIL	24
25	+WOMEN'S BB LOCKER RCPTS	R	900	#12	20 GFCI	1	1800			1	20 GFCI	#12	900	R	+WOMEN'S VB LOCKER RCPTS	26
27	+WOMEN'S BB LOCKER RCPTS	R	900	#12	20 GFCI	1		1980		1	20 GFCI	#12	1080	R	+WOMEN'S VB LOCKER RCPTS	28
29	+WOMEN'S BB LOCKER RCPTS	R	1080	#12	20 GFCI	1			2160	1	20 GFCI	#12	1080	R	+WOMEN'S VB LOCKER RCPTS	30
	LOAD	CONNECTED (VA)		DEMAND (VA)			3496	4420	4151	CONNECTED PHASE VA						
	R=RECEPTACLE	6052		6052			29	37	35	CONNECTED PHASE AMPS						
	L=LIGHTING	0		0												
	M=MECHANICAL	6015		6015			MINIMUM FEEDER AMPACITY			33						
	K=KITCHEN	0		0			TOTAL CONNECTED (VA)			12067						
	LARGEST MOTOR	0		0			TOTAL DEMAND (VA)			12067						

EXISTING PANEL 'GLA'

MAIN : 100A MCB | VOLTS: 120/208 | AIC RATING: 30,000 | MOUNTING: SURFACE | PHASES: 3 | WIRE: 4 | LOCATION: STOR 140 | NEMA: 1

NOTES: 1) *EXISTING CIRCUIT TO REMAIN. 2) +NEW CIRCUIT, PROVIDE NEW BREAKER. 3) -NEW CIRCUIT, REUSE EXISTING BREAKER.

CKT	LOAD DESCRIPTION	LOAD TYPE	LOAD	WIRE SIZE	BRKR AMP	POLE	A	B	C	POLE	BRKR AMP	WIRE SIZE	LOAD	LOAD TYPE	LOAD DESCRIPTION	CKT
1	*WHIRLPOOL			#12	20	1	1440			1	20 GFCI	#12	1440	M	+TRAINERS WHIRLPOOLS	2
3	*FUTURE WHIRLPOOL			#12	20	1		0		1	30	#10			*HAND DRYER RM 148	4
5	*TRAINING RCPTS			#12	20	1			0	1	30	#10			*HAND DRYER RM 156	6
7	*ELEVATOR RM RCPTS			#12	20	1	0			1	30	#10			*HAND DRYER RM 160	8
9	*TEAM RM RCPTS			#12	20	1		0		1	20	#12			*SPARE RM 141	10
11	*WEST GYM RCPTS & OUTSIDE LT			#12	20	1			0	1	25	#12			SPARE	12
13	*S LOCKER RM RCPTS			#12	20	1	0			1	25	#12			*BOILER #2	14
15	*S BLEACHER RCPTS/SCORER'S TBL			#12	20	1		0		1	25	#12			*BOILER #3	16
17	*PUMP-11			#12	20	1			0	1	25	#12			*BOILER #4	18
19	*HAND DRYERS RM 130			#10	30	1	0			1	20	#12			*EF-8 & RCPTS	20
21	*PUMP-7			#12	20	1		0		1	20	#12			*AMP & RCPTS	22
23	*A/C UNIT STOR 140			#12	20	1			0	1	20	#12			*PHONE RCPT	24
25	UNKNOWN			#10	30	1	0			1	20/20	#12			*JOHNSON CONTROL& AMP RCPT	26
27	*AMP RCPT			#12	20	1		0		2	30	#10			*IT RCPT	28
29	*AMP RCPT			#12	20	1			0	2	30	#10			*IT RCPT	30
	LOAD	CONNECTED (VA)		DEMAND (VA)			1440	0	0	CONNECTED PHASE VA						
	R=RECEPTACLE	0		0			12	0	0	CONNECTED PHASE AMPS						
	L=LIGHTING	0		0												
	M=MECHANICAL	1440		1440			MINIMUM FEEDER AMPACITY			4						
	K=KITCHEN	0		0			TOTAL CONNECTED (VA)			1440						
	LARGEST MOTOR	0		0			TOTAL DEMAND (VA)			1440						

EXISTING PANEL 'LF'

MAIN : 100A MCB | VOLTS: 120/208 | AIC RATING: 30,000 | MOUNTING: SURFACE | PHASES: 3 | WIRE: 4 | LOCATION: STOR 140 | NEMA: 1

NOTES: 1) *EXISTING CIRCUIT TO REMAIN. 2) +NEW CIRCUIT, PROVIDE NEW BREAKER. 3) -NEW CIRCUIT, REUSE EXISTING BREAKER.

CKT	LOAD DESCRIPTION	LOAD TYPE	LOAD	WIRE SIZE	BRKR AMP	POLE	A	B	C	POLE	BRKR AMP	WIRE SIZE	LOAD	LOAD TYPE	LOAD DESCRIPTION	CKT
1	*RCPTS RM 163B			#12	20	1	0			1	20	#12			*RCPTS RM 163A	2
3	*RCPTS RM 163A			#12	20	1		0		1	20	#12			*RCPTS RM 160,162	4
5	*RCPTS EWC			#12	20	1			0	1	20	#12			*RCPTS RM 160, 161	6
7	*RCPTS EWC			#12	20	1	0			1	20	#12			*EXERCISE EQUIPMENT	8
9	*RCPTS RM 157, 158			#12	20	1		0		1	20	#12			*EXERCISE EQUIPMENT	10
11	*RCPT & TEMP			#12	20	1			0	1	20	#12			*EXERCISE EQUIPMENT	12
13	+WHIRLPOOL	M	720	#12	20 GFCI	1	720			1	20	#12			*EXERCISE EQUIPMENT	14
15	-TIME CLOCKS IN 'S LOCKER RMS	R	120	#12	20	1		120		1	20	#12			*EXERCISE EQUIPMENT	16
17	SPARE			#12	20	1			0	1	20	#12			*EXERCISE EQUIPMENT	18
19	SPARE			#12	20	1	0			1	20	#12			*EXERCISE EQUIPMENT	20
21	SPARE			#12	20	1	0			1	20	#12			*EXERCISE EQUIPMENT	22
23	SPARE			#12	20	1		0		1	20	#12			*EXERCISE EQUIPMENT	24
25	SPARE			#12	20	1			0	1	20	#12			*EXERCISE EQUIPMENT	26
27	SPARE			#12	20	1	0			1	20	#12			*EXERCISE EQUIPMENT	28
29	SPARE			#12	20	1		0		1	20	#12			*EXERCISE EQUIPMENT	30
31	SPARE			#12	20	1			0	1	20	#12			*RCPTS	32
33	*TIME CLOCK			#12	20	1	0			1	20	#12			*RCPTS	34
35	SPACE			-	20	1		0		1	20	-			SPACE	36
37	SPACE			-	20	1			0	1	20	-			SPACE	38
39	SPACE			-	20	1	0			1	20	-			SPACE	40
41	SPACE			-	20	1	0			1	20	-			SPACE	42
	LOAD	CONNECTED (VA)		DEMAND (VA)			720	120	0	CONNECTED PHASE VA						
	R=RECEPTACLE	120		120			6	1	0	CONNECTED PHASE AMPS						
	L=LIGHTING	0		0												
	M=MECHANICAL	720		720			MINIMUM FEEDER AMPACITY			2						
	K=KITCHEN	0		0			TOTAL CONNECTED (VA)			840						
	LARGEST MOTOR	0		0			TOTAL DEMAND (VA)			840						

ELECTRICAL LOAD SUMMARY CHANGE
(CALCULATIONS PER NEC 2023 EDITION)

DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND PER NEC	KVA
LIGHTING	-1.42	100%	-1.42
RECEPTACLES 10 KVA OR LESS	6.17	100%	6.17
RECEPTACLES OVER 10 KVA	0.00	50%	0.00
MECHANICAL	-16.10	100%	-16.10
KITCHEN	0.00	65%	0.00
LARGEST MOTOR	0.00	25%	0.00
TOTAL THREE PHASE LOAD IN KVA			-11.35
SERVICE VOLTAGE=		480	
MINIMUM SERVICE AMPACITY=			-14

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CASPER COLLEGE LOCKER ROOMS

1944 LISCO DR, CASPER, WY 82601

ENGINEERING
DESIGN ASSOCIATES
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Professional Engineer (Electrical) MONTE N. SCHMITZ 10099 WYOMING Date 2/13/26

REVISION	DATE
PERMIT DOCUMENTS	

Project Number	24108.00/25119
Date	02/13/2026
Drawn By	KN
Checked By:	MNS

Sheet Name
ELECTRICAL SCHEDULES

E-501