DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND



ABOVE RENDERING FOR GRAPHIC ILLUSTRATION ONLY, NOT TO BE INTERPRETED FOR CONTRACTUAL OBLIGATION

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ALTERNATES:

REFER TO SPECIFICATIONS AND DRAWINGS FOR THE SCOPE INCLUDED IN EACH ALTERNATE.

NO. 1 | SECOND FLOOR IN ITS ENTIRETY.

NO. 2 | BALLISTIC RATED SERVICE WINDOW AT RECORDER AND COUNTY SERVICES.

NO. 3 | OMIT ELECTRICAL DUCT HEATERS AND IN LIEU INSTALL VAVs IN AREAS INDICATED.

JLG architects

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LIST OF ABBREVIATIONS

CODE	LIST OF ABBREVIATIONS DESCRIPTION
A/E	ARCHITECT/ENGINEER
AC	ALTERNATING CURRENT
ACI	AMERICAN CONCRETE INSTITUTE
ACM	ASBESTOS CONTAINING MATERIAL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS W/DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT
ASI	ARCHITECTURAL SUPPLEMENTAL INSTRUCTION
AWI	AMERICAN WOODWORKING INSTITUTE
BD	BOARD
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTU	BRITISH THERMAL UNITS
BUR	BUILT UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CPT	CARPET
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
CWT	CERAMIC WALL TILE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DOC	DOCUMENT
DR	DOOR
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATOR/ELEVATION
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FURNITURE, FIXTURE, AND EQUIPMENT
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FTG	FOOTING
FWC	FABRIC WALL COVERING

LIST OF ABBREVIATIONS

CODE	LIST OF ABBREVIATIONS DESCRIPTION
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS OR GLAZING
GWB	GYPSUM WALL BOARD
HB	HOSE BIB
HCP	HANDICAP
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORZ	HORIZONTAL
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
INSUL	INSULATION
JAN	JANITOR
LAM	LAMINATE
LAV	LAVATORY
MAS	MASONRY
MB	MARKERBOARD
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MH	MANHOLE
ML	MATCHLINE
MTL	METAL
MTL STD	METAL STUD
NC	NON COMBUSTIBLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OSB	ORIENTED STRAND BOARD
PB	PARTICLE BOARD
PC	PRECAST
PLAM	PLASTIC LAMINATE
PLAST	PLASTER
PLYWD	PLYWOOD
PREV	PREVIOUS
PT	PAINT
PTD	PAPER TOWEL DISPENSER
RAD	RADIUS
REINF	REINFORCEMENT
REQ'D	REQUIRED
REV	REVERSE
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPD	SOAP DISPENSER
SPEC	SPECIFICATIONS
SQ	SQUARE
SUSP	SUSPEND
TC	THIN COAT
TEMP	TEMPORARY/TEMPERATURE
TO	TOP OF
TP	TOILET PARTITIONS
TPD	TOILET PAPER DISPENSER
TRTD	TREATED
TS	TRANSITION STRIP
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
W/	WITH
WD	WOOD
WDW	WINDOW

PROJECT SPEC ID LIST

SPEC ID	SPEC. SECTION & DESCRIPTION
ACC PNL-1	08 3100 - WALL AND CEILING ACCESS PANELS
ACT-1	09 5100 - ACOUSTIC CEILING TILE
ACT-2	09 5100 - ACOUSTIC CEILING TILE
AIR BAR-3	07 2700 - FLUID-APPLIED VAPOR PERMEABLE MEMBRANE
ALCRTN-1	08 4313 - ALUMINUM CURATIN WALL
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
BAL PNL-1	10 2641 - LAMINATED FIBER BALLISTICS-RESISTANT PANEL
BCS-1	10 2800 - BABY CHANGING STATION; POLYETHYLENE
BRICK TIE	04 2000 - BRICK TIE, EYE AND PINTLE
CG-1	10 2600 - CORNER GUARD - HIGH IMPACT VINYL
CJ-1	04 2000 - MASONRY CONTROL JOINT
CMU-1	04 2000 - STANDARD GREY CMU
COMB-1	10 2800 - COMBINATION TOILET PAPER & WASTE RECEPTACLE
COMP-1	10 2113.19 - PLASTIC TOILET COMPARTMENT
CPT-1	09 6813 - TILE CARPETING
CPT-2	09 6813 - TILE CARPETING
CPT-3	09 6813 - TILE CARPETING
CPT-10	09 6813 - TILE CARPETING
CSLR-1	03 3000 - STANDARD SEALED CONCRETE
DTRAY-1	
EPDM-2	07 5300 - FULLY ADHERED EPDM ROOFING SYSTEM
FR STOP	07 8400 - THROUGH PENETRATION FIRESTOPPING
FRP-1	06 8316 - FIBERGLASS REINFORCED PANEL
FUR-2	09 2116 - Z' FURRING
FUR-4	09 2116 - RESILIENT FURRING CHANNELS
FUR-5	09 2116 - FIBERGLASS CLIP WITH Z-GIRT
GB-18	10 2800 - GRAB BAR; 18 INCHES
GB-36	10 2800 - GRAB BAR; 36 INCHES
GB-42	10 2800 - GRAB BAR; 42 INCHES
GL-1	08 8000 - 1/4 INCH GLASS
GYP ACC-1	09 2116 - ALUMINUM DRYWALL REVEAL MOLDING
GYP ACC-2	09 2116 - ALUMINUM ACOUSTICAL MOLDING
GYP BD-1	09 2116 - 5/8" TYPE X GYPSUM BOARD
GYP BD-6	09 2116 - 5/8" TYPE X MOLD-RESISTANT GYPSUM BOARD
GYP SHTG-2	09 2116 - 5/8" GLASS MAT FACED GYPSUM SHEATHING
HK-1	10 2800 - COAT/ROBE HOOK, SINGLE PRONG
INSUL GL-1	08 8000 - CLEAR INSULATED GLAZING
INSUL GL-40	08 8000 - INSULATED SPANDREL GLASS
INSUL-1	07 2100 - XPS EXTRUDED POLYSTYRENE INSULATION AT FDN WALLS ONLY
INSUL-2	07 2100 - XPS EXTRUDED POLYSTYRENE INSULATION
INSUL-20	07 2100 - UNFACED MINERAL WOOL BATT INSULATION
INSUL-25	07 2100 - FOIL FACED FIBER BOARD
INSUL-26	07 2100 - MINERAL FIBER BOARD INSULATION
INSUL-36	07 2119 - CLOSED CELL SPRAY FOAM INSULATION
INSUL-50	07 5300 - FLAT POLYISOCYANURATE INSULATION (CONSTANT THICKNESS)
INSUL-51	07 5300 - TAPERED POLYISO OVER CONSTANT THICKNESS POLYISO
INSUL-80	09 2116 - ACOUSTIC INSULATION, MINERAL FIBER
LVT-1	09 6500 - LUXURY VINYL TILE
MAS ACC-5	04 2000 - CAVITY MORTAR CONTROL MESH
MET STUD-1	05 4000 - STRUCTURAL STEEL STUDS
MET STUD-2	09 2116 - NON-LOADBEARING METAL STUDS, 20 GA.
MIR-10	10 2800 - MIRROR; ANGLE FRAMED
MRKBD-1	10 1100 - MARKER BOARD, PORCELAIN, MAGNETIC
MRKBD-2	10 1100 - MARKER BOARD, GLASS, MAGNETIC
MT-1	09 3000 - TILE TRIM
MT-2	09 3000 - TILE TRIM
MT-3	09 3000 - TILE TRIM
ND-1	10 2800 - SANITARY NAPKIN DISPOSAL
PAVER-1	07 5300 - CONCRETE PAVER
PAVER-2	07 5300 - ADHERED EPDM WALKWAY PAD
PLAM-1	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PLAM-2	12 3600 - PLASTIC LAMINATE COUNTERTOP
PLAM-3	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PT-1	09 9123 - PAINT
PT-4	09 9123 - PAINT
PT-7	09 9123 - PAINT
PTD-1	10 2800 - PAPER TOWEL DISPENSER; C-FOLD
RB-1	09 6500 - RESILIENT BASE
RMU-10	04 2000 - ROCK FACED CMU, INTEGRALLY COLORED
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD

PROJECT SPEC ID LIST

SPEC ID	SPEC. SECTION & DESCRIPTION
SEC GL-1	08 8000 - LAMINATED SECURITY GLAZING
SECURITY GL-1	08 8800 - LAMINATED AND POLYCARBONATE SECURITY GLAZING
SKYLIGHT-1	08 6200 - FACTORY ASSEMBLED SKYLIGHT
SMF-2	07 6200 - WEATHERING STEEL
SMF-3	07 6200 - STAINLESS STEEL
SP-1	10 2800 - SOAP DISPENSER; WALL MOUNT
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP
ST-1	09 9300 - STAIN
T-1	09 3000 - TILE
T-2	09 3000 - TILE
TP-2	10 2800 - TOILET PAPER DISPENSER; DOUBLE ROLL
TWP-1	04 2000 - RUBBERIZED ASPHALT FLASHING WITH STAINLESS STEEL DRIP
VPR RET-1	07 2600 - 6 MIL POLY VAPOR BARRIER
VPR RET-4	03 3000 - 15 MIL UNDERSLAB VAPOR RETARDER
VPR RET-10	07 2600 - SELF-ADHERED OR FLUID APPLIED VAPOR RETARDER
WC-1	09 7200 - WALL COVERINGS
WD BLKG	06 1000 - WOOD BLOCKING
WD SHTG-30	06 1000 - 1/2" SHEATHING
WD SHTG-31	06 1000 - 5/8" SHEATHING
WD SHTG-32F	06 1000 - 3/4" SHEATHING, FIRE RETARDANT TREATED
WDP-1	06 4200 - WOOD PANELING
WDT-1	06 2000 - WOOD TRIM
WDV-1	06 4100 - WOOD VENEER CASEWORK
WEEP-1	04 2000 - POLYMER HEAD JOINT WEEP
WT-1	12 2400 - ROLLER SHADES, MANUAL
WT-2	12 2400 - ROLLER SHADES, MOTORIZED
WTHR STL-1	07 4213 - WEATHERED STEEL PANEL
WTHR STL-2	07 4213 - SOFFIT PANELS

MATERIAL MATRIX

- CONCRETE; CUT/SURFACE PATTERN
- FILL; SEE STRUCTURAL
- BRICK; CUT PATTERN
- BRICK; SURFACE PATTERN
- CMU; CUT PATTERN
- CMU; SURFACE PATTERN
- BURNISHED CMU; SURFACE PATTERN
- GROUT; CUT PATTERN
- STONE; CUT PATTERN
- ALUMINUM; CUT PATTERN
- STEEL; CUT PATTERN
- MDF; CUT PATTERN
- PLYWOOD; CUT PATTERN
- SOLID SURFACE; CUT PATTERN
- WOOD; CUT PATTERN
- WOOD; SURFACE PATTERN
- METAL PANEL; SURFACE
- CORRUGATED METAL PANEL; SURFACE
- FLUSH METAL PANEL; SURFACE
- RIGID INSULATION; CUT PATTERN
- TAPERED INSULATION; SURFACE PATTERN
- SPANDREL GLAZING; SURFACE PATTERN
- GLAZING; SURFACE PATTERN
- A.C.T (1); SURFACE PATTERN
- A.C.T (2); SURFACE PATTERN
- A.C.T (3); SURFACE PATTERN
- A.C.T; CUT PATTERN
- CARPET TILE; SURFACE PATTERN
- ACCENT CARPET TILE; SURFACE PATTERN
- INTERIOR GYPSUM; CUT PATTERN
- EXTERIOR GYPSUM SHEATHING; CUT PATTERN
- TILE; CUT PATTERN
- EARTH; CUT PATTERN
- PEA ROCK; CUT PATTERN
- SAND; CUT PATTERN

PROJECT GENERAL NOTES

A. FIRST LEVEL ELEVATION OF 100'-0" NOTED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS EQUALS ELEVATION OF 2221.75' NOTED ON CIVIL DRAWINGS.
B. THE OWNER'S NORMAL OPERATIONS WILL BE CONTINUED DURING CONSTRUCTION. THE CONSTRUCTION SHALL NOT INTERFERE WITH THESE OPERATIONS IN ANY WAY WITHOUT THE OWNER'S EXPRESSED CONSENT.
C. IT SHALL BE EACH TRADE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH ALL EXISTING CONDITIONS. EACH CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE DRAWINGS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED THEREBY UNTIL REPORTING THE SAME TO THE ARCHITECT AND THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND/OR CORRECTION.
D. DIMENSIONS FOLLOWED BY +/- SHALL BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
E. ALL EXISTING CONSTRUCTION AND SURFACES WHICH ARE TO REMAIN BUT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT SHALL BE RESTORED AND REFINISHED TO MATCH THE CONSTRUCTION, FINISH AND ALIGNMENT OF THE EXISTING ADJACENT CONSTRUCTION AND FINISHES.
F. VERIFY QUANTITY, SIZE AND LOCATION OF ALL FLOOR, ROOF AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR COMPLETION OF WORK.
G. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH APPROPRIATE TRADES. COORDINATE SIZE & LOCATION OF ALL HOUSE-KEEPING PADS AND/OR EQUIPMENT SUPPORTS WITH APPROPRIATE EQUIPMENT MANUFACTURER.
H. PROVIDE ZERO SLOPE TO ALL FLOOR DRAINS UNLESS OTHERWISE NOTED TO SPECIFICALLY PROVIDE SLOPE WHILE KEEPING FLOOR LEVEL AT WALL BASE CONDITION.
I. PROVIDE FIRE WATCH DURING FIELD CUTTING AND WELDING OPERATIONS, MEETING OWNER'S REQUIREMENTS.
J. PROVIDE FIRE RETARDANT WOOD BLOCKING AND/OR 18 GA METAL PLATES BETWEEN STUDS AT ALL LOCATIONS REQUIRING BLOCKING IN WALL. THESE LOCATIONS INCLUDE BUT ARE NOT LIMITED TO GRAB BARS, CRASH RAILS, CABINETS, WALL HUNG SHELVES, ARTWORK, ETC.
K. THE EXTENT OF HATCHING ON DRAWINGS IS ONLY SUFFICIENT TO INDICATE THE NATURE OF THE CONSTRUCTION OR MATERIALS. TERMINATION OF THE HATCHING SHALL NOT BE CONSTRUED TO REPRESENT A CHANGE OR TERMINATION OF MATERIAL.
L. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN WORK AREAS PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES SHALL BE DOCUMENTED AND FORWARDED TO ARCHITECT AND OWNER'S REPRESENTATIVE FOR ACTION.
M. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE FIELD CONDITIONS AND PROVIDE AS NEEDED TEMPORARY SUPPORTS, SHORING AND/OR PROTECTION OF EXISTING STRUCTURES AND UNDERGROUND UTILITIES DURING EXECUTION OF WORK.
N. ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE LOCAL AND STATE CODES.
O. RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS SHALL BE VERIFIED AGAINST MANUFACTURER'S CERTIFIED EQUIPMENT DRAWINGS.
P. CONTRACTOR SHALL PROVIDE TEMPORARY DUST PROOF PARTITIONS AS REQUIRED, OR WHERE REQUESTED BY OWNER'S REPRESENTATIVE. PARTITIONS SHALL BE FIRE RATED WHERE REQUIRED BY CODE HAVING JURISDICTION. ALL TEMPORARY PARTITIONS SHALL BE CONSTRUCTED IN A MANNER AND OF MATERIALS OFFERING ADEQUATE PROTECTION TO OWNER'S EQUIPMENT AND PERSONNEL.
Q. DO NOT SCALE DRAWINGS TO DETERMINE SIZES AND DIMENSIONS. USE FIGURED DIMENSIONS ONLY. DIMENSIONS ARE TO FINISHED FACE OF WALLS UNLESS OTHERWISE NOTED. ALL PERIMETER DIMENSIONS ARE FROM FACE OF PERIMETER WALLS. ALL DIMENSIONS TO EXISTING WALL ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
R. ALL PENETRATIONS TO FLOORS, CEILINGS AND WALLS SHALL BE SEALED AND FIRE STOPPED TO A FIRE RATING EQUAL TO THE CONSTRUCTION BEING PENETRATED.
S. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK UNLESS NOTED OTHERWISE.

SYMBOLS LEGEND

ROOM IDENTIFICATION TAG
SAMPLE ROOM NAME — ROOM NAME
101 — ROOM NUMBER
150 SF — ROOM AREA

OPENING IDENTIFICATION TAGS
TYP — DOOR NUMBER
TYPE / TYP — WINDOW IDENTIFICATION
CURTAINWALL / STOREFRONT IDENTIFICATION

COLUMN/GRID/LEVEL IDENTIFICATION
XX.X — NEW COLUMN / STRUCTURAL GRID
XX.X — EXISTING COLUMN / STRUCTURAL GRID
NAME, EL.= ELEVATION — ELEVATION DATUM

ASSEMBLY IDENTIFICATION
A4.2S — WALL / FLOOR / ROOF TAG

MATERIAL/OBJECT IDENTIFICATION
(?) — MATERIAL ID TAG

REVISION DELTA AND CLOUD
1 — REVISION TAG
REVISION CLOUD

DRAWING IDENTIFICATION
4A / X.XX — View Name — SCALE: 1/8" = 1'-0"
DRAWING NUMBER
DRAWING NAME
DRAWING SCALE
SHEET NUMBER

SECTION IDENTIFICATION
1 / A101 — DIRECTION OF CUT, DRAWING NUMBER, SHEET NUMBER

DETAIL SECTION IDENTIFICATION
1 / A101 — Ref 1 / A101 — DRAWING NUMBER, SHEET NUMBER

ELEVATION IDENTIFICATION
1 / A101 — ELEVATION NUMBER, SHEET NUMBER

NORTH ARROW
PLAN NORTH, TRUE NORTH

SHEET KEYNOTES
XX — KEYNOTE

DESIGN TEAM

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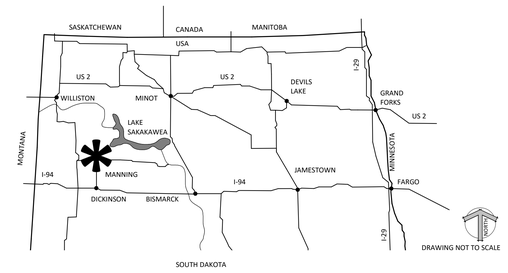
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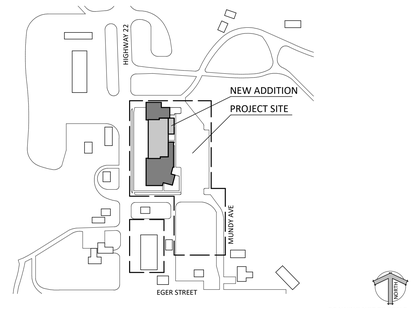
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PROJECT VICINITY MAP





CONTEXT MAP

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LICENSED ARCHITECT (2867) KATELYN CRIDER 10/21/2025 STATE OF NORTH DAKOTA

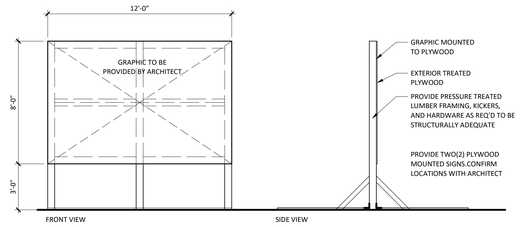
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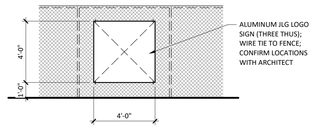
NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
G101
TITLE SHEET

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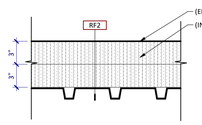




7E / G102 PROJECT SIGN REQUIREMENTS

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

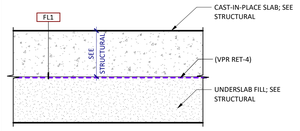
ROOF ASSEMBLIES



ROOF TYPE 'RF2'

TYPE	R-VALUE (PRO)	R-VALUE (REQ)	RATING	UL NO.	COMMENTS
RF2	R-35.6 C.I. (0.028 U VALUE)	R-30 ABOVE DECK	--	--	

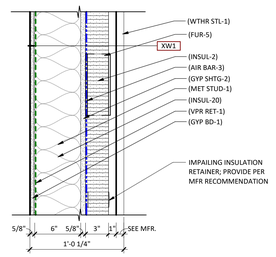
FLOOR ASSEMBLIES



FLOOR TYPE 'FL1'

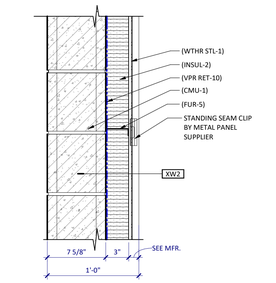
TYPE	INSUL THICK	RATING	UL NO.	COMMENTS
FL1	R-20 FOR 24" BELOW	--	--	

EXTERIOR WALL ASSEMBLIES



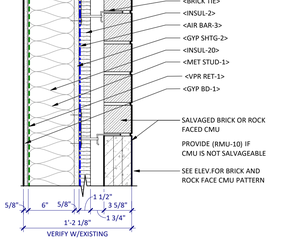
WALL TYPE - 'XW1'

TYPE	R-VALUE (PROV)	R-VALUE (REQD)	UL NO.	RATING	COMMENTS
XW1	R-24 R-12.9 C.I. (0.049 U VALUE)	R-13 + R-12.5 C.I. (0.049 U VALUE)	--	0HR	



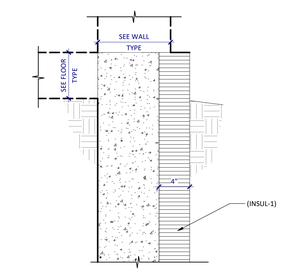
WALL TYPE - 'XW2'

TYPE	R-VALUE (PROV)	R-VALUE (REQD)	UL NO.	RATING	COMMENTS
XW2	R-15 C.I. (0.067 U VALUE)	R-13.3 C.I.	--	0HR	



WALL TYPE - 'XW3'

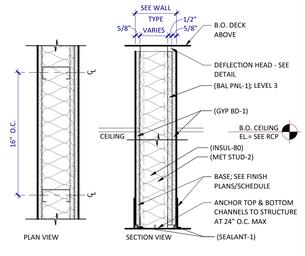
TYPE	R-VALUE (PROV)	R-VALUE (REQD)	UL NO.	RATING	COMMENTS
XW3	R-24 R-7.5 C.I. (0.029 U VALUE)	R-13 + R-12.5 C.I. (0.049 U VALUE)		0HR	



WALL TYPE - 'FDN'

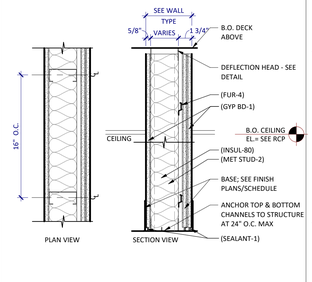
TYPE	R-VALUE (PROV)	R-VALUE (REQD)	UL NO.	RATING	COMMENTS
FDN	R-20 C.I. F TO T.O. FTG	R-20 C.I. FOR FIRST 24", R-10 C.I. FOR REMAINDER	--	0HR	

INTERIOR PARTITIONS



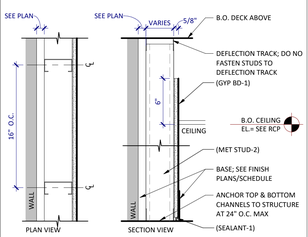
PARTITION TYPE 'B'

WALL TAG	STUD SIZE & SPACING	WIDTH	GYP.BRD. THICKNESS	INSUL THICK	RATING	UL NO.	COMMENTS
B4.C	3 5/8" M.S. @ 16" O.C.	4 3/4"	(1) - 5/8" EACH SIDE	FILL CAVITY	0HR	--	--



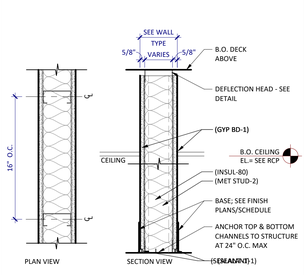
PARTITION TYPE 'AR'

WALL TAG	STUD SIZE & SPACING	WIDTH	GYP.BRD. THICKNESS	INSUL THICK	RATING	UL NO.	COMMENTS
A4.R	3 5/8" M.S. @ 24" O.C., EQ 25 GAUGE	5 3/8"	SEE ASSEMBLY	FILL CAVITY	0HR	U419	STC: 54
A6.R	6" M.S. @ 24" O.C., EQ 25 GAUGE	7 3/4"	SEE ASSEMBLY	FILL CAVITY	0HR	U419	STC: 54



PARTITION TYPE 'F'

WALL TAG	STUD SIZE & SPACING	WIDTH	GYP.BRD. THICKNESS	INSUL THICK	RATING	UL NO.	COMMENTS
F2	1 5/8" M.S. @ 16" O.C.	2 1/4"	(1) - 5/8" FINISH SIDE	N/A	0HR	--	
F3	2 1/2" M.S. @ 16" O.C.	3 1/8"	(1) - 5/8" FINISH SIDE	N/A	0HR	--	
F4	3 5/8" M.S. @ 16" O.C.	4 1/4"	(1) - 5/8" FINISH SIDE	N/A	0HR	--	
F6	6" M.S. @ 16" O.C.	6 5/8"	(1) - 5/8" FINISH SIDE	N/A	0HR	--	



PARTITION TYPE 'A'

WALL TAG	STUD SIZE & SPACING	WIDTH	GYP.BRD. THICKNESS	INSUL THICK	RATING	UL NO.	COMMENTS
A4	3 5/8" M.S. @ 16" O.C.	4 7/8"	(1) - 5/8" EACH SIDE	FILL CAVITY	0HR	--	
A4.1	3 5/8" M.S. @ 16" O.C.	4 7/8"	(1) - 5/8" EACH SIDE	FILL CAVITY	1HR	U465	
A6	6" M.S. @ 16" O.C.	7 1/4"	(1) - 5/8" EACH SIDE	FILL CAVITY	0HR	--	

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
AIR BAR-3	07 2700 - FLUID-APPLIED VAPOR PERMEABLE MEMBRANE
BAL PNL-1	10 2641 - LAMINATED FIBER BALLISTICS-RESISTANT PANEL
BRICK TIE	04 2000 - BRICK TIE, EYE AND PINTLE
CMU-1	04 2000 - STANDARD GREY CMU
EPDM-2	07 5300 - FULLY ADHERED EPDM ROOFING SYSTEM
FR STOP	07 8400 - THROUGH PENETRATION FIRESTOPPING
FUR-4	09 2116 - RESILIENT FURRING CHANNELS
FUR-5	09 2116 - FIBERGLASS CLIP WITH Z-GIRT
GYP BD-1	09 2116 - 5/8" TYPE X GYPSUM BOARD
GYP SHTG-2	09 2116 - 5/8" GLASS MAT FACED GYPSUM SHEATHING
INSUL-1	07 2100 - XPS EXTRUDED POLYSTYRENE INSULATION AT FDN WALLS ONLY
INSUL-2	07 2100 - XPS EXTRUDED POLYSTYRENE INSULATION
INSUL-20	07 2100 - UNFACED MINERAL WOOL BATT INSULATION
INSUL-50	07 5300 - FLAT POLYISOCYANURATE INSULATION (CONSTANT THICKNESS)
INSUL-80	09 2116 - ACOUSTIC INSULATION, MINERAL FIBER
MET STUD-1	05 4000 - STRUCTURAL STEEL STUDS
MET STUD-2	09 2116 - NON-LOADBEARING METAL STUDS, 20 GA.
RMU-10	04 2000 - ROCK FACED CMU, INTEGRALLY COLORED
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
VPR RET-1	07 2600 - 6 MIL POLY VAPOR BARRIER
VPR RET-4	03 3000 - 15 MIL UNDERSLAB VAPOR RETARDER
VPR RET-10	07 2600 - SELF-ADHERED OR FLUID APPLIED VAPOR RETARDER
WTHR STL-1	07 4213 - WEATHERED STEEL PANEL

MEMBRANE LINETYPE LEGEND

ROOF UNDERLAY (XXXX-##)

UNDERSLAB VAPOR RETARDER (XXXX-##)

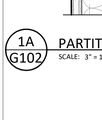
VAPOR BARRIER INTERIOR (XXXX-##)

VAPOR BARRIER ROOF (XXXX-##)

WATERPROOFING (XXXX-##)

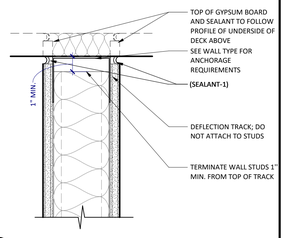
WEATHER BARRIER (XXXX-##)

INTERIOR PARTITION LEGEND



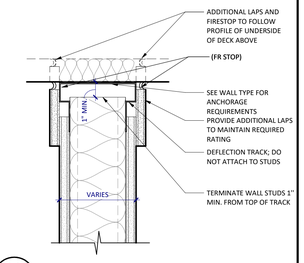
PARTITION CLASSIFICATIONS:

A ACOUSTIC FULL HEIGHT GYP. BD. WALL
F SINGLE SIDED GYP. BD. WALLS
M MASONRY WALLS
P PARTITION WALLS (TERMINATE 6" ABOVE CEILING)
S SHAFTWALLS



1B / G102 PARTITION HEAD - NON-RATED

SCALE: 3" = 1'-0"



1A / G102 PARTITION HEAD - RATED

SCALE: 3" = 1'-0"

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

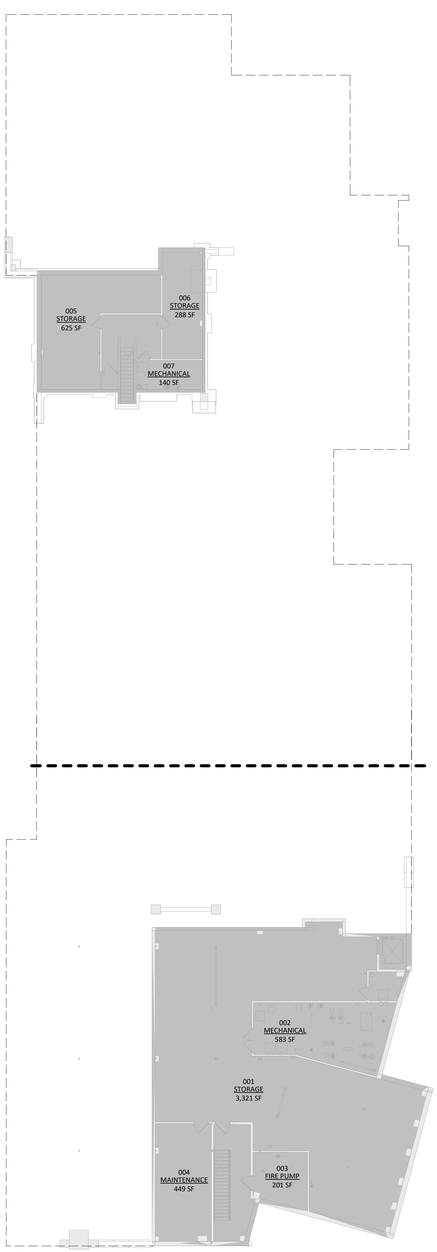
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LICENSED ARCHITECT (2867) Kaitlyn Crider 10/21/2025 STATE OF NORTH DAKOTA

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET G102
TYPICAL ASSEMBLIES

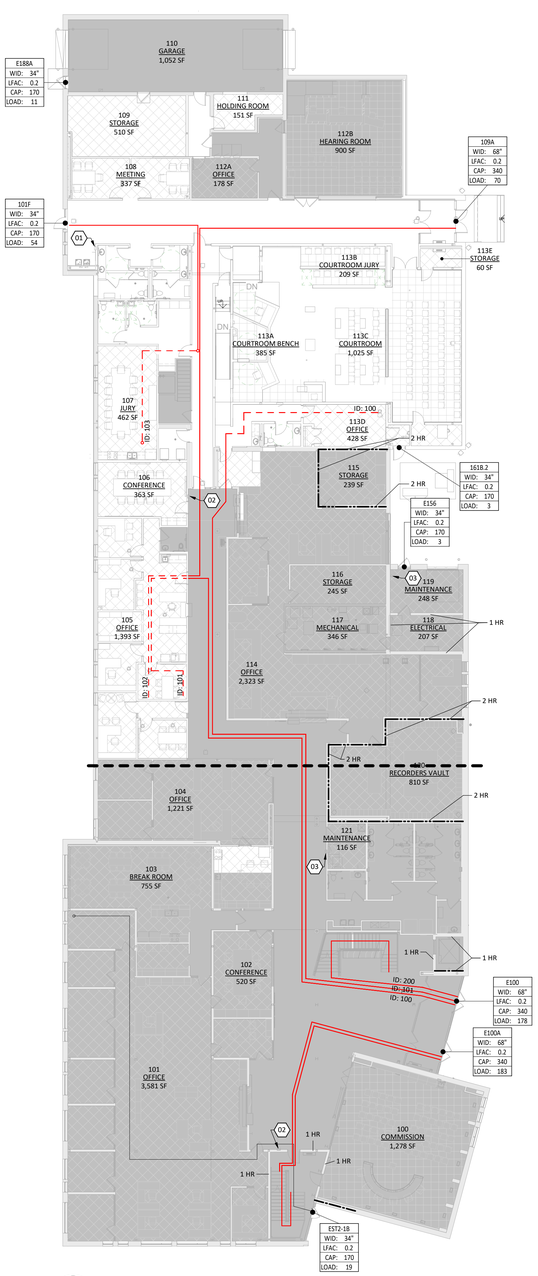
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5A G111 BASEMENT FLOOR LIFE SAFETY PLAN

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

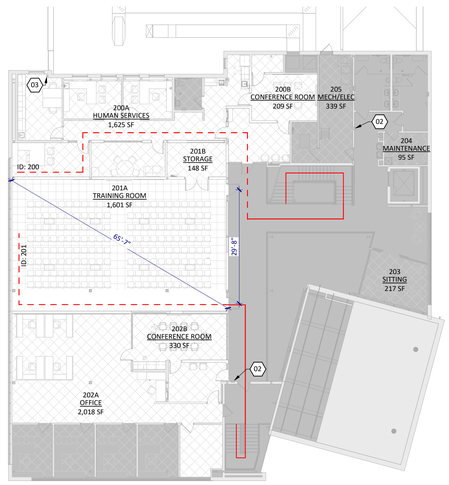
THERE ARE NO SIGNIFICANT SCOPE CHANGES IN THE BASEMENT TO REQUIRE RECLASSIFICATION OF THE SPACES OR OCCUPANT LOAD.



4A G111 FIRST FLOOR LIFE SAFETY PLAN

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

SPACES THAT ARE NOT HIGHLIGHTED IN GRAY ARE MODIFIED SPACES.



2A G111 SECOND FLOOR LIFE SAFETLY PLAN - ALTERNATE NO. 1

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

BASE BID: SECOND FLOOR LAYOUT REMAINS THE SAME AND ALL OCCUPANCY REMAINS THE SAME. EXISTING SECOND FLOOR OCCUPANT LOAD IS 76. UNDER THE ALTERNATE , THE OCUPANT LOAD INCREASES BY 112 BUT DOESN'T CHANGE EGRESS

OCCUPANCY LOAD SCHEDULE

NUMBER	NAME	AREA	OCCUPANCY CLASSIFICATION (IBC CHAPTER 3)	IBC CHAPTER 10 FUNCTION OF SPACE	SF PER OCC. LOAD FACTOR (OLF)	SF PER OCC. MEASUREMENT	OCCUPANT LOAD FIXED SEATS	OCCUPANT LOAD MAX. OCC. LOAD	REMARKS
BASEMENT FLOOR									
001	STORAGE	3,321 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	12	
002	MECHANICAL	583 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	2	
003	FIRE PUMP	201 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
004	MAINTENANCE	449 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	2	
005	STORAGE	625 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	3	
006	STORAGE	288 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
007	MECHANICAL	140 SF	S-1	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
BASEMENT FLOOR		5,607 SF					0	22	
FIRST FLOOR									
100	COMMISSION	1,278 SF	A-3	ASSEMBLY - W/O FIXED SEATING	7	NET	0	183	
101	OFFICE	3,581 SF	B	BUSINESS AREA	150	GROSS	0	24	
102	CONFERENCE	520 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	35	
103	BREAK ROOM	755 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	51	
104	OFFICE	1,221 SF	B	BUSINESS AREA	150	GROSS	0	9	
105	OFFICE	1,393 SF	B	BUSINESS AREA	150	GROSS	0	10	
106	CONFERENCE	363 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	25	
107	JURY	462 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	31	
108	MEETING	337 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	23	
109	STORAGE	510 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	2	
110	GARAGE	1,052 SF	S-1	PARKING GARAGES	200	GROSS	0	6	
111	HOLDING ROOM	151 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
112A	OFFICE	178 SF	B	BUSINESS AREA	150	GROSS	0	2	
112B	HEARING ROOM	900 SF	A-3	COURTROOM	40	NET	0	23	
113A	COURTROOM BENCH	385 SF	A-3	ASSEMBLY - FIXED SEATING	-	(FIXED)	6	6	
113B	COURTROOM JURY	209 SF	A-3	ASSEMBLY - FIXED SEATING	-	(FIXED)	14	14	
113C	COURTROOM	1,025 SF	A-3	COURTROOM	40	NET	0	26	
113D	OFFICE	428 SF	B	BUSINESS AREA	150	GROSS	0	3	
113E	STORAGE	60 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
114	OFFICE	2,323 SF	B	BUSINESS AREA	150	GROSS	0	16	
115	STORAGE	239 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
116	STORAGE	245 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
117	MECHANICAL	346 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	2	
118	ELECTRICAL	207 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
119	MAINTENANCE	248 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
120	RECORDERS VAULT	810 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	3	
121	MAINTENANCE	116 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
FIRST FLOOR		19,340 SF					20	501	
SECOND FLOOR									
200A	HUMAN SERVICES	1,625 SF	B	BUSINESS AREA	150	GROSS	0	11	
200B	CONFERENCE ROOM	209 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	14	
201A	TRAINING ROOM	1,601 SF	A-3	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	107	
201B	STORAGE	148 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
202A	OFFICE	2,018 SF	B	BUSINESS AREA	150	GROSS	0	14	
202B	CONFERENCE ROOM	330 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	23	
203	SITTING	217 SF	B	ASSEMBLY - W/O FIXED SEATING - UNCONCENTRATED	15	NET	0	15	
204	MAINTENANCE	95 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	1	
205	MECH/ELEC	339 SF	B	ACCESSORY STORAGE, MECH EQUIPMENT ROOM	300	GROSS	0	2	
SECOND FLOOR		6,580 SF					0	188	
GRAND TOTAL		31,527 SF					20	711	

TRAVEL DISTANCE+COMMON PATH

PATH ID	TRAVEL DIST.: COMMON TOTAL	TRAVEL DIST.: COMMON MAX DIST.	TRAVEL DIST.: EXIT TOTAL	TRAVEL DIST.: EXIT MAX DIST.
	0' - 0"	100' - 0"	28' - 11"	300' - 0"
100	45' - 2"	100' - 0"	252' - 9"	300' - 0"
101	48' - 9"	100' - 0"	223' - 9"	300' - 0"
102	41' - 7"	100' - 0"	202' - 5"	300' - 0"
103	38' - 6"	100' - 0"	104' - 9"	300' - 0"
200	92' - 9"	100' - 0"	240' - 8"	300' - 0"
201	72' - 6"	75' - 0"	214' - 0"	250' - 0"

KEYNOTES - LIFE SAFETY PLAN

NO	NOTE	REV.
01	RELOCATED EXISTING FIRE EXTINGUISHER CABINET.	
02	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. VERIFY LOCATION WITH NEW CONSTRUCTION.	
03	EXISTING FIRE EXTINGUISHER BRACKET TO REMAIN. VERIFY LOCATION WITH NEW CONSTRUCTION.	

LIFE SAFETY LEGEND

OCC. LOAD TAG

101 — NUMBER
Name — NAME
150 SF / 100 OCC. — AREA / OCCUPENT LOAD

EGRESS DATA TAG

NUMBER — ELEMENT ID NUMBER
WID: 34" — EGRESS WIDTH
LFAC: .2 — EGRESS FACTOR
CAP: 170 — EGRESS CAPACITY
LOAD: ### — EGRESS LOAD

(UNI-DIRECTION) ***EGRESS DIRECTION SYMBOL*** *(BI-DIRECTION)*

EXIT — EGRESS DIRECTION TEXT — EXIT
257 (EXIT+LOAD) — EGRESS DIRECTION+LOAD (CUMULATIVE COUNTS) — 257 (EXIT+LOAD)

EGRESS SYMBOL

PE (ADA) — PUBLIC ENTRANCE, DOOR ID / NOTE, (ADA) = ACCESSIBLE ENTRANCE
#12 (EO) — NON-PUBLIC ENTRANCE, DOOR ID, (EO) = EXIT ONLY
HE (48) — HORIZONTAL EXIT, (##) = REQ. OPENING WIDTH IN INCHES

FIRE-RESISTANCE RATINGS

Per 1bc Chapter

Fire walls and fire barriers having a required fire-resistance rating greater than 1 hour

- 4 HOUR RATED WALL
- 3 HOUR RATED WALL
- 2 HOUR RATED WALL
- 1.5 HOUR RATED WALL

Double fire walls constructed in accordance with nfpa 221.Single-wall assembly rating (hours)

- 4 HOUR RATED WALL
- 3 HOUR RATED WALL
- 2 HOUR RATED WALL

Double fire walls constructed in accordance with nfpa 221.Each wall of the double-wall assembly (hours)

- 3 HOUR RATED WALL
- 2 HOUR RATED WALL
- 1 HOUR RATED WALL

Enclosures for shafts, interior exit stairways and interior exit ramps

- 2 HOUR RATED WALL

Horizontal exits in fire walls

- 4 HOUR RATED WALL
- 3 HOUR RATED WALL

Fire barriers having a required fire-resistance rating of 1 hour - enclosures for shafts, exit access stairways, exit access ramps, interior exit stairways and interior exit ramps; and exit passageway walls

- 1 HOUR RATED WALL

Other Fire Barriers

- 1 HOUR RATED WALL

Fire Partitions / Corridor Walls

- 1 HOUR RATED PARTITION
- 0.5 HOUR RATED PARTITION

Other Fire Partitions

- 1 HOUR RATED PARTITION
- 0.5 HOUR RATED PARTITION

Exterior Walls

- 3 HOUR RATED WALL
- 2 HOUR RATED WALL
- 1 HOUR RATED WALL

Smoke Barriers

- 1 HOUR RATED WALL

DARK FILLED WALLS ARE EXISTING WALLS

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LICENSED ARCHITECT — KATELYN CRIDER — (2867) — 10/21/2025 — STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: 24146
SHEET: G111
LIFE SAFETY PLANS

10/21/2025 1:40:13 PM

BUILDING STATISTICS

Project Number:	*24146*
Project Name:	*Dunn County Courthouse Remodel*
Building Height	*48'-0"*
Site / Lot Area :	*XXX*
Building Areas:	
Basement	*5,607 SF*
First Floor	*19,340 SF*
Second Floor	*6,580 SF*
Total Building Area:	*31,527.0 SF*

ZONING / SITE REQUIREMENTS

Zoning District:	*Manning Development Zone*
Building Use:	*Public Facility*
Density/FAR:	*#####*
Yard Requirements (setbacks):	
Front:	*25 feet*
Sides:	*7 feet*
Rear:	*3 feet*

BUILDING CODE ANALYSIS - APPLICABLE GOVERNING CODES:

Building Code:	*2021 International Building Code*
State Amendments:	*North Dakota Building Code Amendments*
City Amendments:	*N/A*
Fire Code:	*2021 International Fire Code*
Plumbing Code:	*2018 North Dakota State Plumbing Code*
Mechanical Code:	*#####*
Electrical Code:	*2020 National Electrical Code / NFPA 70*
Energy Code:	*2021 International Energy Conservation Code*
Accessibility Code:	*2017 ANSI A117.4 and 2010 ADA*
Life Safety Code:	*#####*

BUILDING CODE ANALYSIS - APPLICABLE GOVERNING CODES:

CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE

SECTION 302
OCCUPANCY CLASSIFICATION AND USE DESIGNATION:

Occupancy classification is the formal designation of the primary purpose of the building, structure, or portion thereof.
Structures shall be classified into one ore more of the occupancy groups listed in this section based on the nature of the hazards and risks to building occupants generally associated with the intended purposed of the building or structure. An area, room or space that is intended to occupied at different times for different purposes shall comply with all applicable requirements associated with such potential multipurpose. Structures containing multiple occupancy groups shall comply with Section 508. Where a structure is proposed for a purpose that is not specifically listed in this section, such structure shall be classified in the occupancy it most nearly resembles based on the fire safety and relative hazard. Occupied roofs shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard, and shall comply with Section 503.1.4.

OCCUPANCY CLASSIFICATION(S) BY CODE:	*B, A-3*

CHAPTER 6 TYPES OF CONSTRUCTION

SECTION 602
CONSTRUCTION CLASSIFICATION

602.1 General

Buildings and structures erected or to be erected, altered or extended in height or area shall be classified in one of the five construction types defined in Sections 602.2 through 602.5. The building elements shall have a fire-resistance rating not less than that specified in Table 601 and exterior walls shall have a fire-resistance rating not less than that specified in Table 601 and exterior walls shall have a fire-resistance rating not less than that specified in Table 602. Where required to have a fire-resistance rating by Table 601, building elements shall comply with the applicable provisions of Section 7032. the protection of openings, ducts and air transfer openings in building elements shall not be required by other provisions of this code.

Construction type for this project shall be:	*IIB*
How will the building be sprinklered:	*SM*
How many stories will this building be:	*2*

TABLE 601

Primary structural frame (f) (see section 202)	*0*
Bearing Walls	
Exterior (e,f)	*0*
Interior	*0*
Nonbearing walls and partitions	
Exterior	*See Table 602*
Nonbearing walls and partitions	
Interior (d)	*0*
Floor construction and associated secondary members (see Section 202)	*0*
Roof construction and associated secondary members (see Section 202)	*0 c*
	a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
	b. Except in Group F-1, H, M, and S-1 occupancies, fire protection of structural members in roof construction shall not be required, including protection of primary structural frame members, roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant wood members shall be allowed to be used for such unprotected members.
	c. In all occupancies, heavy timber complying with Section 2304.11 shall be allowed where a 1-hour or less fire-resistance rating is required.
	d. Not less than the fire-resistance rating required by other sections of this code.
	e. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
	f. Not less than the fire-resistance rating as referenced in Section 704.10.

TABLE 602 RATING BASED ON FIRE SEPARATION DISTANCE

The occupancy group under evaluation shall be:	***A,B,E,F-2,I,R(i), S-2, U(h)***
Fire separation distance (occupancy group-construction type)	***A,B,E,F-2,I,R(i), S-2, U(h)-IIB***
X<5 b	***1***
5<=X<10	***1***
10<=X<30	***0***
X>=30	***0***
	a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
	b. See Section 706.1.1 for party walls.
	c. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
	d. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
	e. For special requirements for Group H occupancies, see Section 415.6.
	f. For special requirements for Group S aircraft hangars, see Section 412.3.1.
	g. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.
	h. For a building containing only a Group U occupancy private garage or carport, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet or greater.
	i. For a Group R-3 building of Type II-b or Type V-B construction, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet or greater.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

SEPARATED OR NON-SEPARATED	***Non-Separated***
MOST RESTRICTIVE OCCUPANCY	***A-3***
	A-3-SM

SECTION 508
MIXED USE AND OCCUPANCY

508.1 General

Each portion of a building shall be individually classified in accordance with Section 302.1. Where a building contains more than one occupancy group, the building or portion thereof shall comply with the applicable provisions of Section 508.2, 508.3, 508.4, or a combination of these sections.

Exceptions:
1. Occupancies separated in accordance with Section 510
2. Where required by Table 415.6.2, areas of Group H-1, H-2, and H-3 occupancies shall be located in a detached building or structure.
3. Uses within live/work units, complying with Section 419, are not considered separate occupancies.

Noted Exceptions

508.2 Accessory occupancies

Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. Accessory occupancies shall comply with the provisions of Sections 508.2.1 through 508.2.4.

	Laundry
508.2.1 Occupancy classification	Accessory occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space.
508.2.2 Allowable building height	The allowable height and number of stories of the building containing accessory occupancies shall be in accordance with Section 504 for the main occupancy of the building.
508.2.3 Allowable building area	The allowable building area of the building shall be based on the applicable provisions of Section 506 for the main occupancy of the building. Aggregate accessory occupancies shall not occupy more than 10 perfect of the floor area of the story in which they are located and shall not exceed the tabular values for nonsprinklered buildings in Table 506.2 for each such accessory occupancy.
	Accessory Occupancy SF/Total Story Area < 10%
508.2.4 Separation of occupancies	No separation is required between accessory occupancies and the main occupancy.

508.3 Nonseparated Occupancies

	Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.
508.3.1 Occupancy Classification	Nonseparated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space. In addition, the most restrictive provisions of Chapter 9 that apply to the nonseparated occupancies shall apply to the total nonseparated occupancy area.
508.3.1.1 High-rise buildings	Were nonseparated occupancies occur in a high-rise building, the most restrictive requirements of Section 403 that apply to the nonseparated occupancies shall apply through the high-rise building.
508.3.1.2 Group I-2, Condition 2 occupancies	Where one of the nonseparated occupancies is Group I-2, Condition 2, the most restrictive requirements of Sections 407, 509 and 712 shall apply throughout the fire area containing Group I-2 occupancy. The most restrictive requirements of Chapter 10 shall apply to the path of egress from the Group I-2, Condition 2 occupancy up to and including the exit discharge.
	List story location of Group I-2, Condition 2 occupancies from project here.
508.3.2 Allowable building area, height and number of stories	The allowable building area, height, and number of stories of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.
508.3.3 Separation	No separation is required between nonseparated occupancies.
	Exceptions: 1. Group H-2, H-3, H-4 and H-5 occupancies shall be separated from all other occupancies in accordance with Section 508.4. 2. Group I-1, R-1, R-2, and R-3 dwelling units and sleeping units shall be separated from other dwelling or sleeping units from other occupancies contiguous to them in accordance with Section 420.
	Noted Exceptions and Project Application.

508.3 Separated Occupancies

	Buildings or portions of buildings that comply with the provisions of this section shall be considered as separated occupancies.
508.4.1 Occupancy Classification	Separated occupancies shall be individually classified in accordance with Section 302.1. Each separated space shall comply with this code based on the occupancy classification of that portion of the building. The most restrictive provisions of Chapter 9 that apply to the separate occupancies shall apply to the total nonfire-barrier-separated occupancy areas. Occupancy separations that serve to define fire area limits established in Chapter 9 for requiring a fire protection system shall also comply with Section 901.7.
508.4.2 Allowable Building Area	In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.
	(Actual Occupancy Footprint/Allowable Occupancy Area)+ (Actual Occupancy Footprint/Allowable Occupancy Area)….<1
508.4.3 Allowable building height and number of stories	Each separated occupancy shall comply with the building height limitations and story limitations based on the type of construction of the building in accordance with Section 503.1.
	Exceptions: 1. Special provisions of Section 510 shall permit occupancies at building height and number of stories other than provided in Section 503.1.
	Noted Exceptions and Project Application.
508.4.4 Separation	Individual occupancies shall be separated from adjacent occupancies in accordance with Table 508.4.
Table 508.4 Required Separation of Occupancy (Hours)	***Use TABLE 508.4 and list required separations of occupancies (i.e. A:B = 1 HR)***
508.4.4.1 Construction	Required separations shall be fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both, so as to completely separate adjacent occupancies.

509 Incidental Uses

509.1 General	Incidental uses located within single occupancy or mixed occupancy buildings shall comply with the provisions of this section. Incidental uses are ancillary functions associated with a given occupancy that generally pose a greater level of risk to that occupancy and are limited to those uses in Table 509.
	Exceptions: 1. Incidental uses within and serving a dwelling unit are not required to comply with this section.
509.2 Occupancy Classification	Incidental uses shall not be individually classified in accordance with Section 302.1. Incidental uses shall be included in the building occupancies within which they are located.
509.4 Separation and protection	The incidental uses listed Table 509 shall be separated from the remainder of the building or equipped with an automatic sprinkler system, or both, in accordance with the provisions of that table.
Table 509 Incidental Uses	***Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower,*** ***Laundry rooms over 100 square feet,*** ***Electrical rooms per NFPA 70***
509.4.1 Separation	Where Table 509 specifies a fire-resistance-rated separation, the incidental uses shall be separated from the remainder of the building by a fire barrier constructed in accordance with Section 707 or a horizontal assembly constructed in accordance with Section 711, or both. Construction supporting 1-hour fire barriers or horizontal assemblies used for incidental use separations in buildings of Type IIB, IIIB, and VB is not required to be fire-resistance rated unless required by other sections of this code.
509.4.2 Protection	Where Table 509 permits an automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. The walls shall extend from the top of the foundation or floor assembly below the underside of the ceiling that is a component of a fire-resistance-rated floor assembly above or to the underside of the floor or roof sheathing, deck or slab above. Doors shall be self-or automatic-closing upon detections of smoke in accordance with Section 716.2.6.6. Doors shall not have air transfer openings and shall not be undercut in excess of the clearance permitted in accordance with NFPA 80. Walls surrounding the incidental use shall not have air transfer openings unless provided with smoke dampers in accordance with Section 710.8.
509.4.2.1 Protection Limitation	Where an automatic sprinkler system is provided in accordance with Table 509, only the space occupied by the incidental use need to be equipped with such a system.
	For this project sprinklered protection shall be utilized in lieu of rated walls as applicable with Section 509.4. Doors shall have smoke seals and walls constructed to be smoke tight

506 Building Area

506.1 General	The floor area of a building shall be determined based on the type of construction, occupancy classification, whether there is an automatic sprinkler system installed throughout the building and the amount of building frontage on public way or open space.
506.2 Allowable area determination	The allowable area of a building shall be determined in accordance with the applicable provisions of Sections 506.2.1 through 506.2.4 and 506.3.

506.2.1 Single-occupancy, one-story buildings

	The allowable area of a single-occupancy building with no more than one story above grade plane shall be determined in accordance with Equation 5-1:
Equation 5-1:	***Aa = At + (NSxIf)***
At	***28500***
NS	***9500***
If	***0.75***
Total Allowable Story Area:	***35625***

506.2.2 Mixed-occupancy, one-story buildings

	The allowable area of a mixed-occupancy building with no more than one story above grade plane shall be determined in accordance with the applicable provisions of Section 508.1 based on Equation 5-1 for each applicable occupancy.
506.2.2.1 Group H-2 or H-3 mixed occupancies	For a building containing Group H-2 or H-3 occupancies, the allowable area shall be determined in accordance with Section 508.4.2, with sprinkler system increase applicable only to the portion of the building not classified as Group H-2 or H-3.
Equation 5-2:	***Aa = At + (NSxIf)***
At	***28500***
NS	***9500***
If	***0.75***
Total Allowable Story Area:	***35625***

506.2.3 Single-occupancy, multistory buildings

	The allowable area of a single-occupancy building with more than one story above grade plane shall be determined in accordance with Equation 5-2:
	Aa = [At + (NSxIf)] x Sa; No individual story shall exceed the allowable area (Aa) as determined by Equation 5-2 using the value of S=1.
At	***28500***
NS	***9500***
If	***0.75***
Sa	***2***
Total Allowable Building Area:	***71250***
Total Allowable Story Area:	***35625***

506.2.4 Mixed-occupancy, multistory buildings

506.2.4 Mixed-occupancy, multistory buildings	Each story of a mixed-occupancy building with more than one story above grade plane shall individually comply with the applicable requirements of Section 508.1. For buildings with more than three stories above grade plane, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories, determined in accordance with Equation 5-3 based on the applicable provisions of Section 508.1, shall not exceed three.
	Exceptions: 1. For buildings designed as separated occupancies under Section 508.4 and equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories determined in accordance with Equation 5-3 based on the applicable provisions of Section 508.1, shall not exceed four.
506.2.2.1 Group H-2 or H-3 mixed occupancies	For a building containing a Group H-2 of H-3 occupancies, the allowable area shall be determined in accordance with Section 508.4.2, with the sprinkler system increase applicable only to the portions of the building not classified as Group H-2 or H-3.
Equation 5-3:	***Aa = [At + (Ns x If)]***
At (SF)	***28500***
NS (SF)	***9500***
If	***0.75***
Total Allowable Story Area (SF):	***35625***
Buildings > Three Stories	***A1/Aa + A2/Aa + A3/Aa……< 3***

506.3 Frontage

506.3 Frontage Increase	Every building shall adjoin or have access to a public way to receive an area factor increase based on frontage. Area factor increase shall be determined in accordance with Sections 506.3.1 through 506.3.3.
506.3.1 Frontage Increase	To qualify for an area factor increase based on frontage, a building shall have not less than 25 percent of its perimeter on a public way or open space. Such open space shall be either on the same lot or dedicated for public use and shall be accessed from a street or approved fire line.
	This project has greater than 25% of its perimeter facing a public way or open space. Refer to life safety plans/site plan.

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LICENSED ARCHITECT (2867) KATHY CRIDER 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
G120
CODE REVIEW

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506.3.2 Minimum frontage distance	To qualify for an area factor increase based on frontage, the public way or open space adjacent to the building perimeter shall have a minimum distance of 20 feet measured at right angles from the building face to any of the following: 1. The closest interior lot line. 2. The entire width of the street, alley or public way. 3. The exterior face of an adjacent building on the same property. The frontage increase shall be based on the smallest public way or open space that is 20 feet or greater, and the percentage of building perimeter having a minimum 20 feet public way or open space.
506.3.3 Amount of increase	The area factor increase shall be determined in accordance with Table 506.3.3.
SEE TABLE AND INPUT FACTOR	***0.75***
504 Building Height and Number of Stories	
504.3 Height in feet	The maximum height, in feet, of a building shall not exceed the limits specified in Table 504.3.
Allowable number of stories:	*3*
Maximum allowable height (feet) Table 504.3:	***60***
510 Special Provisions (PODIUM CONSTRUCTION)	
510.1 General	The provisions in Sections 510.2 through 510.9 shall permit the use of special conditions that are exempt from, or modify, the specific requirements of this chapter regarding the allowable building heights and areas of building based on the occupancy classification and type of construction, provided the special condition complies with the provisions specified in this section for such condition and other applicable requirements of this code. The provisions of Sections 510.2 through 510.8 are to be considered independent and separate from each other.
510.2 Horizontal building separation allowance	A building shall be considered as separate and distinct buildings for the purpose of determining area limitations, continuity of fire walls, limitation of number of stories and type of construction where all of the following conditions are met: 1. The buildings are separated with a horizonal assembly having a fire-resistance rating of not less than 3 hours. Where vertical offsets are provided as part of a horizonal assembly, the vertical offset and the structure supporting the vertical offset shall have a fire-resistance rating of not less than 3 hours. 2. The building below, including the horizonal assembly, is of Type IA construction. 3. Shaft, stairway, ramp and escalatory enclosures through the horizonal assembly shall have not less than a 2-hour fire-resistance rating with opening protectives in accordance with Section 716. Exception: Where the enclosure walls below the horizonal assembly have not less than 3-hour fire-resistance rating with opening protectives in accordance with Section 716, the enclosure walls extending above the horizontal assembly shall be permitted to have a 1-hour fire-resistance rating provided: 1. the building above the horizontal assembly is not required to be of Type I construction; 2. The enclosure connects fewer than four stories; and 3. The enclosure opening protectives above the horizontal assembly have a fire protection rating of not less than 1 hour. 4. The building or buildings above the horizonal assembly shall be permitted to have multiple Group A occupancy uses, each with an occupant load of less 300, or Group B, M, R, or S occupancies. 5. The building below the horizonal assembly shall be protected throughout by an approved automatic sprinkler system in accordance with Section 903.3.1.1, and shall be permitted to be any occupancy by this code except Group H. 6. The maximum building height in feet shall not exceed the limits set forth in Section 504.3 for the building having the smaller allowable height as measured from the grade plane.
	List number of stories below and above the podium, the highest allowable building height and the actual building height.
510 Special Provisions (GROUP S-2)	
510.3 Group S-2 enclosed parking garage with Group S-2 open parking garage above	A group S-2 enclosed parking garage with no more than one story above grade plane and located below a Group S-2 open parking garage shall be classified as a separate and distinct building for the purpose of determining the type of construction where all of the following conditions are met: 1. The allowable area of the building shall be such that the sum of the ratios of the actual area divided by the allowable area for each separate occupancy shall not exceed1. 2. The Group S-2 enclosed parking garage is of Type I or II construction and is a least equal to the fire-resistance requirements of the Group S-2 open parking garage. 3. The height and number of tiers of the Group S-2 open parking garage shall be limited as specified in Table 406.5.4. 4. The floor assembly separating the Group S-2 enclosed parking garage and Group S-2s open parking garage, except exit openings, shall not be required to be protected. 5. The Group S-2 enclosed parking garage is used exclusively for the parking of storage of private motor vehicles, but shall be permitted to contain an office, waiting room and toilet room having a total area of not more than 1,000 square feet (93m2) and mechanical equipment rooms incidental to the operation of the building.
510 Special Provisions (PARKING BENEATH GROUP R)	
510.4 Parking beneath Group R	Where a maximum one story above grade plane S-2 parking, enclosed or open, or combination thereof, of Type I construction or open of Type IV construction, with grade entrance is provided under a building of Group R, the number of stories used in determining the minimum type of construction shall be measured from the floor above such a parking area. The floor assembly between the parking garage and the Group R above shall comply with the type of construction required for the parking garage and shall also provide a fire-resistance rating not less than the mixed occupancy separation required in Section 508.4.
	List type of parking garage, construction type and Mixed Use Occupancy separation for your project here.
510 Special Provisions (GROUP R-1 and R-2 buildings of type IIIA construction)	
510.5 Group R-1 and R-2 buildings of Type IIIA construction	The height limitation for buildings of Type IIIA construction in Groups R-1 and R-2 shall be increased to six stories and 75 feet where the first floor assembly above the basement has a fire resistance rating of not less than 3 hours and the floor area is subdivided by 2-hour fire-resistance-rated fire walls of not more than 3,000 square feet.
510 Special Provisions (GROUP R-1 AND R-2 BUILDINGS OF TYPE IIA CONSTRUCTION)	
510.6 Group R-1 and R-2 buildings of Type IIA construction	The height limitation of Type IIA construction in Groups R-1 and R-2 shall be increased to nine stories and 100 feet where the building is separated by not less than 50 feet from any other building on the lot and from lot lines, the exits are segregated in an area enclosed by a 2-hour fire-resistance -rated fire wall and the first floor assembly has a fire-resistance rating of not less than 1 1/2 hours.
510 Special Provisions (OPEN PARKING GARAGE BENEATH GROUPS A, I, B, M and R)	
510.7 Open parking garage beneath Groups A,I,B,M and R	Open parking garages constructed under Groups A, I, B, M and R shall not exceed the height and area limitations permitted under section 406.5. The height and area of the portion of the building above the open parking garage shall not exceed the limitations in Section 503 for the upper occupancy. The height, in both feet and stories, of the portion of the building above the open parking garage shall be measured from grade plane and shall include both the open parking garage and the portion of the building above the parking garage.
510.7.1 Fire separation	Fire barriers constructed in accordance with Section 707 or horizonal assemblies constructed in accordance with Section 711 between the parking occupancy and the upper occupancy shall correspond to the required fire-resistance rating prescribed in Table 508.4 for the uses involved. The type of construction shall apply to each occupancy individually, except that structural members, including main bracing within the open parking structure, which is necessary to support the upper occupancy, shall be protected with the more restrictive fire-resistance-rated assemblies of the groups involved as shown in Table 601. Means of egress for the upper occupancy shall conform to Chapter 10 and shall be separated from the parking occupancy by fire barriers having not less than a 2-hour fire-resistance rating as required by Section 707 with self-closing doors complying with Section 716 or horizonal assemblies having not less than a 2-hour fire-resistance rating as required by Section 711, with self-closing doors complying with Section 716. Means of egress from the open parking garage shall comply with Section 406.5.
510 Special Provisions (GROUP B OR M BUILDINGS WITH GROUP S-2 OPEN PARKING GARAGE ABOVE)	
510.8 Group B or M buildings with Group S-2 open parking garage above	Group B or M occupancies located below a Group S-2 open parking garage of a lesser type of construction shall be considered as a separate and distinct building from Group S-2 open parking garage for the purpose of determining the type of construction where all of the following conditions are met: 1. The buildings are separated with a horizonal assembly having a fire-resistance rating of not less than 2 hours. 2. The occupancies in the building below the horizontal assembly are limited to Groups B and M. 3. The occupancy above the horizonal assembly is limited to a Group S-2 open parking garage 4. The building below the horizonal assembly is of Type IA construction. Exception: The building below the horizontal assembly shall be permitted to be of Type IB or II construction, but not less than the type of construction required for the Group S-2 open parking garage above, where the building below is not greater than one story in height above grade plane. 5. The height and area of the building below the horizonal assembly does not exceed the limits set forth in Section 503. 6. The height and area of the Group S-2 open parking garage does not exceed the limits set forth in Section 406.5. The height, in both feet and stories, of the Group S-2 open parking garage shall be measured from grade plane and shall include the building below the horizonal assembly. 7. Exits serving the Group S-2 open parking garage discharge directly to a street or public way and are separated from the building below the horizonal assembly b 2-hour fire barriers constructed in accordance with Section 707 or 2-hour horizontal constructed in accordance with Section 711, or both.
510 Special Provisions (MULTIPLE BUILDINGS ABOVE A HORIZONTAL ASSEMBLY)	
510.9 Multiple buildings above a horizontal assembly	Where two or more buildings are provided above the horizonal assembly separating a Group S-2 parking garage or building below from the buildings above in accordance with the special provisions in Section 510.2, 510.3 or 510.8. the buildings above the horizonal assembly shall be regarded as separate and distinct buildings from each other and shall comply with all other provisions of this code as applicable to each separate and distinct building.
CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES	
704 Fire-Resistance Rating of Structural Members	
	The fire-resistance ratings of structural members and assemblies shall comply with this section and the requirements for the type of construction as specified in Table 601. The fire-resistance rating shall be not less than the ratings required for the fire-resistance-rated assemblies supported by the structural members.
	Exceptions: 1. Fire barriers, fire partitions, smoke barriers and horizonal assemblies as provided in Sections 707.5, 708.4, 709.4 and 711.2, respectively.
	Noted Exceptions and Project Application.
704.2 Column protection	Where columns are required to have protection to achieve a fire-resistance rating, the entire column shall be provided individual encasement protection by protecting it on all sides for the full column height, including connections to other structural members, with materials having the required fire-resistance rating.
	Exceptions: 1. Columns that meet the limitations of Section 704.4.1.
	Noted Exceptions and Project Application.
705 Exterior Walls	***Verify requirements with your project specifics. Add rows as necessary.***
706 Fire Walls	

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

Classification	Type	Description	Occupant Load	Water Closets (Urinals see section 424.2 of the International Plumbing Code)						Lavatories							Drinking Fountains			Other		
				Male	Female	Required		Provided			Male	Female	Required		Provided			Count	Req.	Prov.	Count	Req.	Prov.
						Male	Female	Male	Female	Unisex			Male	Female	Male	Female	Unisex						
	A-3	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	*359*	1 per 125	1 per 65	*1.44*	*2.76*	*4*	*4*	*3*	1 per 200		*0.90*	*0.90*	*3*	*3*	*3*	1 per 500	*0.72*	*2*	1 service sink	*1*	*1*
Business	B	Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial, ambulatory care and similar uses	*344*	1 per 25 for the first 50 1 per 50 for the remainder exceeding 50		*4.44*	*4.44*	*5*	*5*	*3*	1 per 40 for the first 80 1 per 80 for the remainder exceeding 80		*4.30*	*4.30*	*5*	*5*	*3*	1 per 100	*3.44*	*4*	1 service sink	*1*	*1*
Storage	S	Structures for the storage of goods, warehouses, storehouses and freight depots, low and moderate hazard	*28*	1 per 100		*0.14*	*0.14*	*-*		*-*	1 per 100		*0.14*	*0.14*	*-*		*-*	1 per 1000	*0.03*	*0*	1 service sink	*1*	*-*
			731		***Public Total:***	*7*	*8*	*9*	*9*	*6*		***Public Total:***	*6*	*6*	*8*	*8*	*6*	***Total:***	*5*	*6*	***Service Sink Total:***	*3*	*2*

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LICENSED ARCHITECT
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10/21/2025
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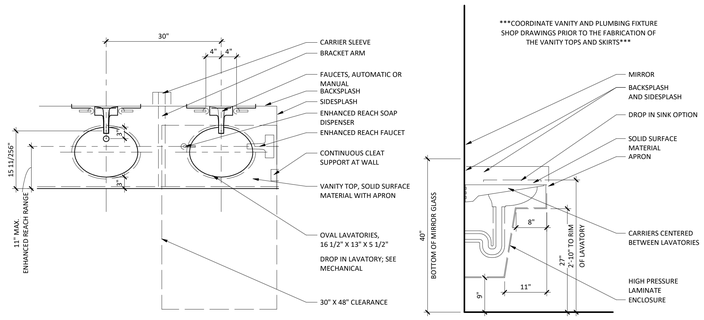
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

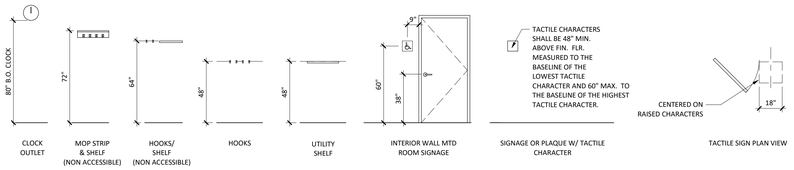
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COURTHOUSE REMODEL
MANNING, ND

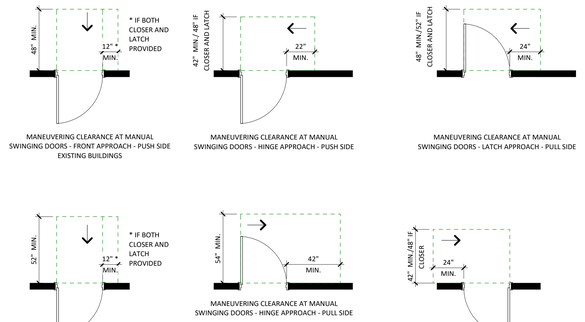
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SHEET
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CODE REVIEW

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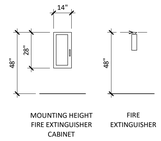
MOUNTING HEIGHTS - TYPICAL VANITIES



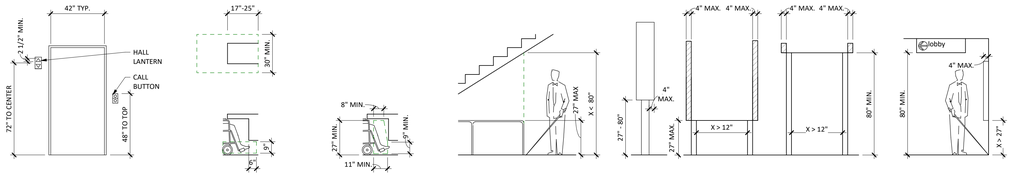


KEYNOTES - ADA MOUNTING HEIGHTS

NO	NOTE
1	CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE (ACCESSIBLE) OF TOILET AREAS NO MORE THAN 44 IN ABOVE THE FLOOR.
2	INSTALL TOILET PAPER DISPENSERS 19" TO CENTERLINE OF DISPENSER ABOVE FINISHED FLOOR. DISPENSERS THAT CONTROL DELIVERY ARE NOT PERMITTED.
3	HATCHED OR DASHED SPACE INDICATES REQUIRED CLEAR FLOOR SPACE.
4	DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND STOP.
5	HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.
6	GRAB BARS SHALL BE PROVIDED AT ALL ACCESSIBLE TOILET AREAS. MOUNT AT HEIGHT SHOWN AND DO NOT OBSTRUCT ANY REQUIRED CLEARANCES.
7	A CLEAR FLOOR SPACE OF 30IN BY 48IN SHALL BE PROVIDED TO ALLOW FORWARD APPROACH. URINAL SHIELDS THAT DO NOT EXTEND BEYOND THE FRONT END OF THE URINAL RIM MAY BE PROVIDED WITH 29 IN CLEARANCE BETWEEN THEM.
8	URINALS SHALL BE WALL-HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17 IN ABOVE THE FLOOR.
9	FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND MOUNTED NO MORE THAN 44 IN ABOVE THE FLOOR.
10	CONTROLS
11	A CLEAR FLOOR SPACE OF 30IN BY 48IN SHALL BE PROVIDED TO ALLOW FORWARD APPROACH.
12	HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
13	TOILET PAPER DISPENSERS AND SANITARY PRODUCT DISPOSAL.
14	SHOWER STALL SIZE SHALL BE 36IN BY 36IN MINIMUM. CLEAR FLOOR SPACE SHALL BE 36IN MINIMUM IN DWELLING UNIT.
15	A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36IN BY 36IN AS INDICATED ABOVE. THE SEAT SHALL BE ON THE WALL OPPOSITE THE CONTROLS. STRUCTURAL STRENGTH OF SEATS AND THE ATTACHMENT MUST COMPLY WITH CODE.
16	A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60IN LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED.

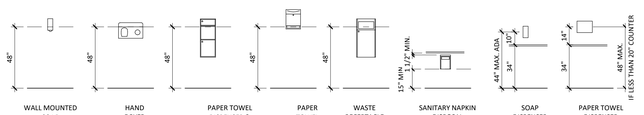


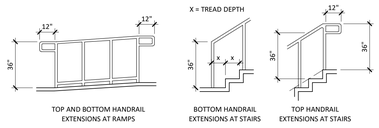
MOUNTING HEIGHTS - MISCELLANEOUS



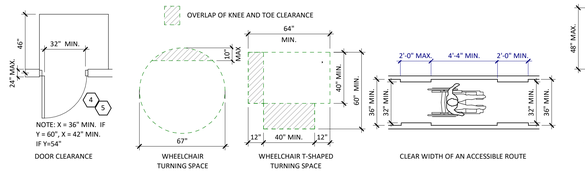
DOOR CLEARANCES

MOUNTING HEIGHTS - FIRE PROTECTION

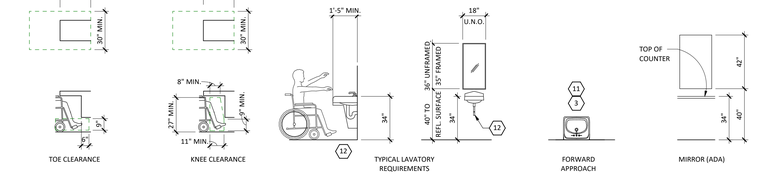




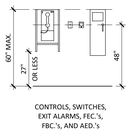
MOUNTING HEIGHTS - RAILING EXTENSIONS



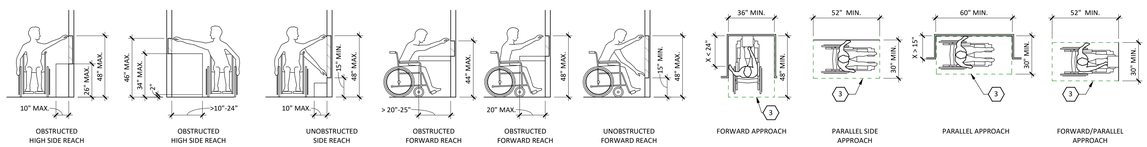
MOUNTING HEIGHTS AND HORIZONTAL CLEARANCES



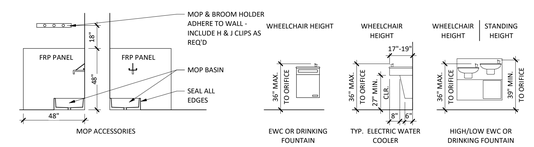
MOUNTING HEIGHTS - TOILET ROOMS



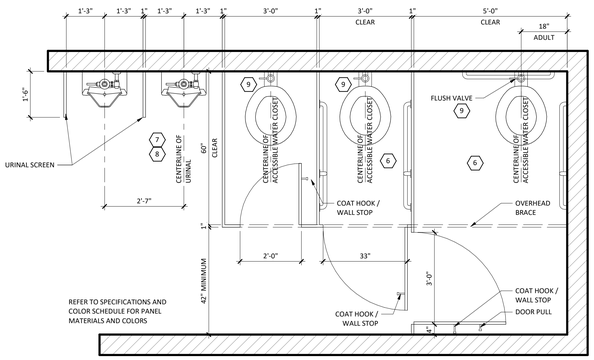
MOUNTING HEIGHTS - COMMUNICATIONS



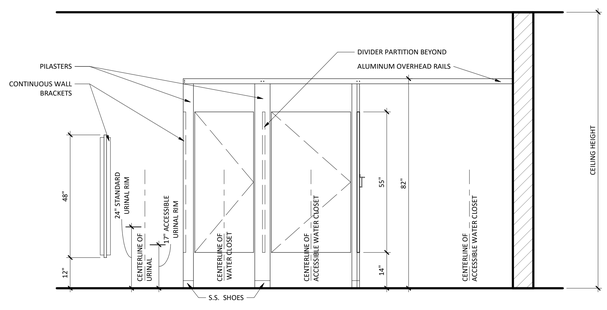
MOUNTING HEIGHTS - REACHES



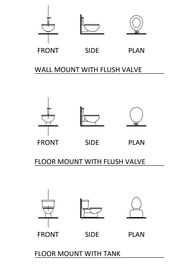
MOUNTING HEIGHTS - MISCELLANEOUS PLUMBING



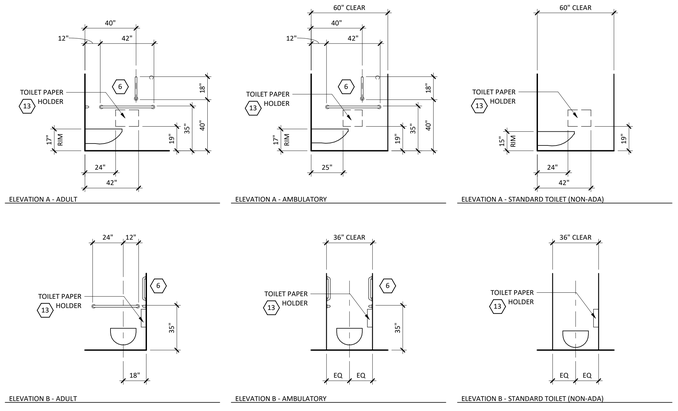
TOILET PARTITION PLAN



TOILET PARTITION ELEVATION



WATER CLOSET TYPES



MOUNTING HEIGHTS - TOILETS AND GRAB BARS

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LICENSED ARCHITECT (2867) Kaitlyn Crider 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **G130**
MOUNTING HEIGHTS

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CIVIL SHEET INDEX

C001.....CIVIL NOTES AND LEGEND

C101.....EXISTING CONDITIONS AND REMOVALS

C201.....SITE IMPROVEMENT PLAN
C202.....SITE DIMENSION PLAN

C301.....SITE GRADING PLAN

C401.....CIVIL DETAILS

SITE DATA

1. **SITE ADDRESS:** 205 OWENS STREET, MANNING, ND 58642
2. **SITE AREA:** ±2.30 ACRES
3. **SITE OWNER:** DUNN COUNTY
4. **ZONING:** MANNING DISTRICT

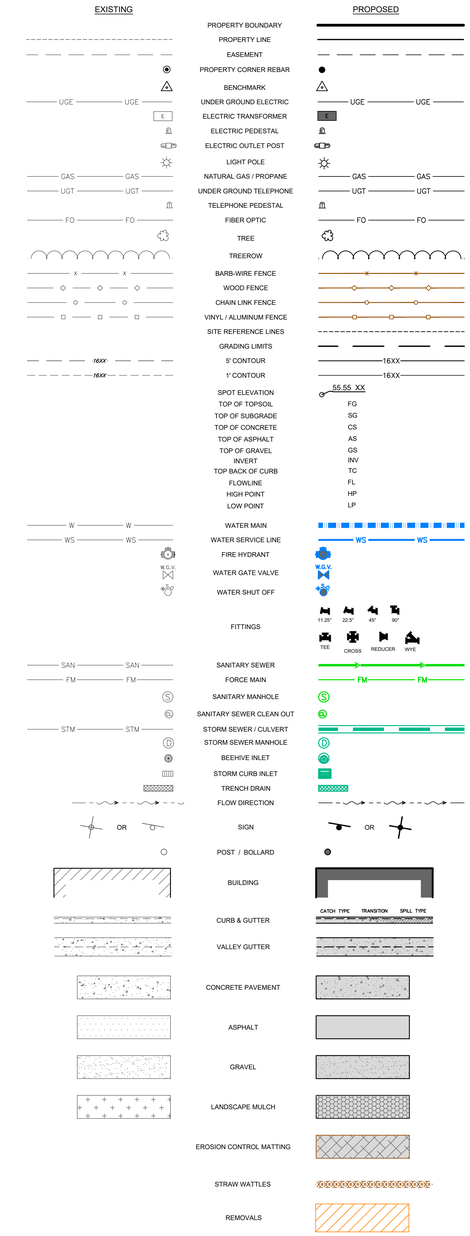
GENERAL NOTES

1. CONTACT "NORTH DAKOTA ONE CALL" AT (800) 795-0555 OR 811 PRIOR TO START OF ANY EXCAVATION FOR LOCATIONS OF BURIED UTILITIES. THE LOCATIONS OF ANY AND ALL UNDERGROUND UTILITIES SHOWN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, AS-BUILT MAPS, AND MARKS MADE ON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY BE UNDERGROUND UTILITIES, WHETHER IN SERVICE OR ABANDONED, FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH THE ABOVE GROUND EVIDENCE WAS NOT OBSERVED. FURTHERMORE, THE UTILITIES MAY NOT BE IN THE EXACT LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF CONSTRUCTION. ANY AND ALL DAMAGES THAT MAY OCCUR FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE ANY AND ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OR VARIANCES TO THE PLANS ARE FOUND.
3. SEE ARCHITECTURAL/STRUCTURAL CONSTRUCTION PLANS FOR ALL ACTUAL BUILDING DIMENSIONS. DIMENSIONS SHOWN ON CIVIL SITE PLAN ARE APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTS. IF ANY MONUMENTS ARE DAMAGED OR OBLITERATED DURING THE WORK, CONTRACTOR SHALL REPAIR OR RESET THE MONUMENT IN ACCORDANCE WITH N.D. CENTURY CODE REQUIREMENTS.
5. CAD FILES MAY BE PROVIDED BY HIGHLANDS ENGINEERING FOR BIDDING AND CONSTRUCTION UPON REQUEST WITH SIGNATURE OF A DISCLAIMER FORM TO BE PROVIDED TO THE CONTRACTOR UPON REQUEST.

SURVEY NOTES

1. DISTANCES SHOWN ARE MEASURED GROUND DISTANCES, INTERNATIONAL FOOT.
2. SITE ELEVATIONS ARE BASED ON THE DESIGN ELEVATIONS FROM THE 2016 COURTHOUSE EXPANSION PROJECT. SITE ELEVATIONS IN THE VICINITY OF THE ADDITION WERE NOT VERIFIED BY SURVEY, AND ARE ASSUMED TO MATCH THESE PREVIOUS DESIGN ELEVATIONS. VERIFY EXISTING ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

CIVIL LEGEND



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ANDREW SCHRANK
PE-9814
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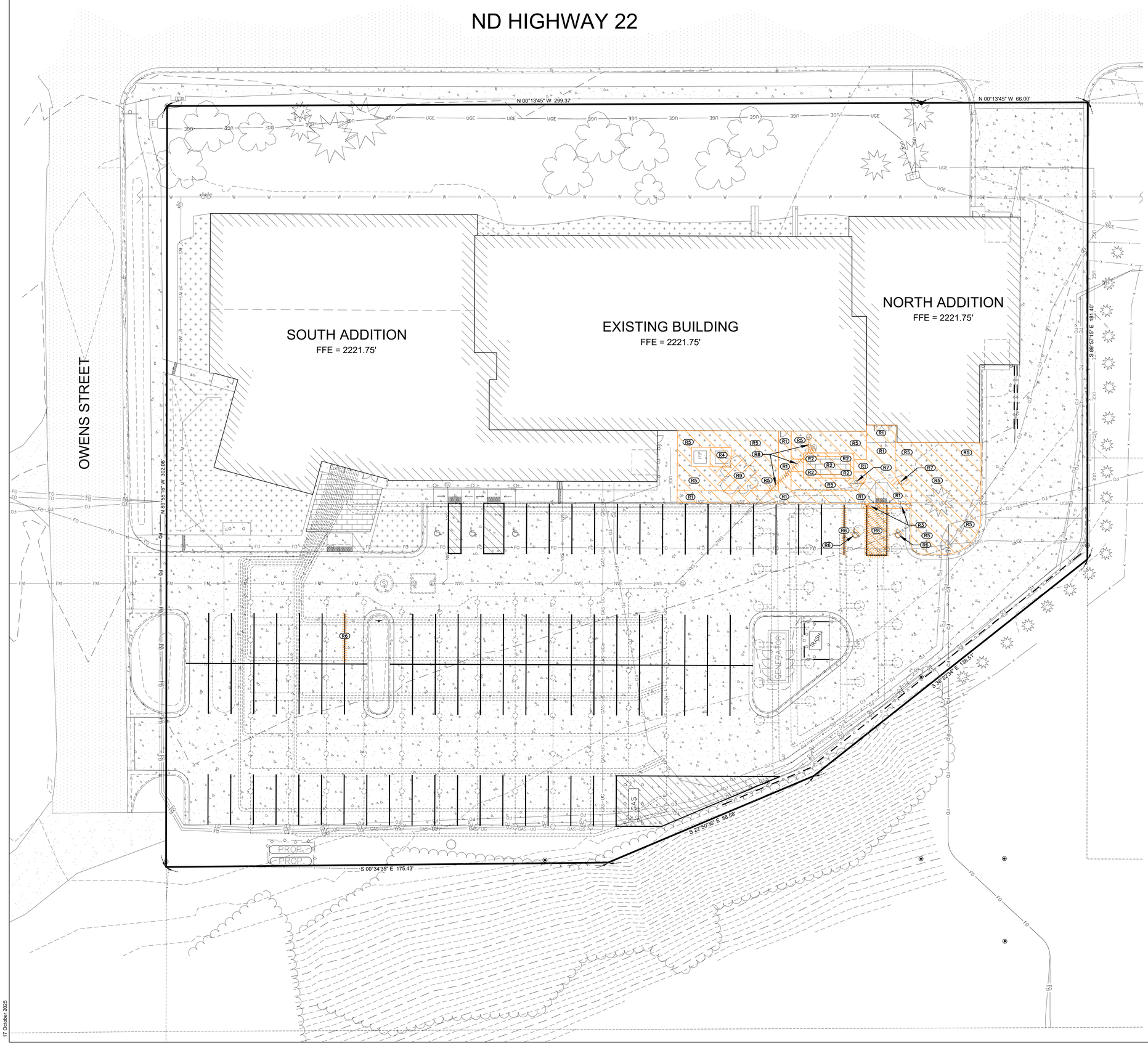
PROJECT
HE: 241514

SHEET
C001
CIVIL NOTES AND LEGEND

17 October 2025

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REMOVALS NOTES

R1. REMOVE CONCRETE SIDEWALK IN LOCATIONS SHOWN.
R2. REMOVE EXISTING CONCRETE PATIO AND SCREEN WALL IN LOCATIONS SHOWN.
R3. REMOVE CURB AND GUTTER TO NEAREST JOINT IN LOCATIONS SHOWN.
R4. REMOVE EXISTING ELECTRICAL EQUIPMENT AND CONCRETE PAD IN LOCATION SHOWN. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
R5. REMOVE EXISTING SCORIA LANDSCAPING ROCK, WOOD MULCH, PLANTINGS, AND GRASS IN LOCATIONS SHOWN. DO NOT REMOVE THE ONE (1) EXISTING EVERGREEN TREE EAST OF THE NORTH ADDITION.
R6. OBLITERATE EXISTING PAVEMENT MARKINGS IN LOCATIONS SHOWN.
R7. REMOVE AND SALVAGE EXISTING HANDICAP PARKING SIGNS IN LOCATIONS SHOWN.
R8. REMOVE EXISTING SANITARY SEWER PIPE TO A POINT 5-FEET OUTSIDE THE PROPOSED BUILDING LOCATION.
R9. REMOVE EXISTING TREE IN LOCATION SHOWN.

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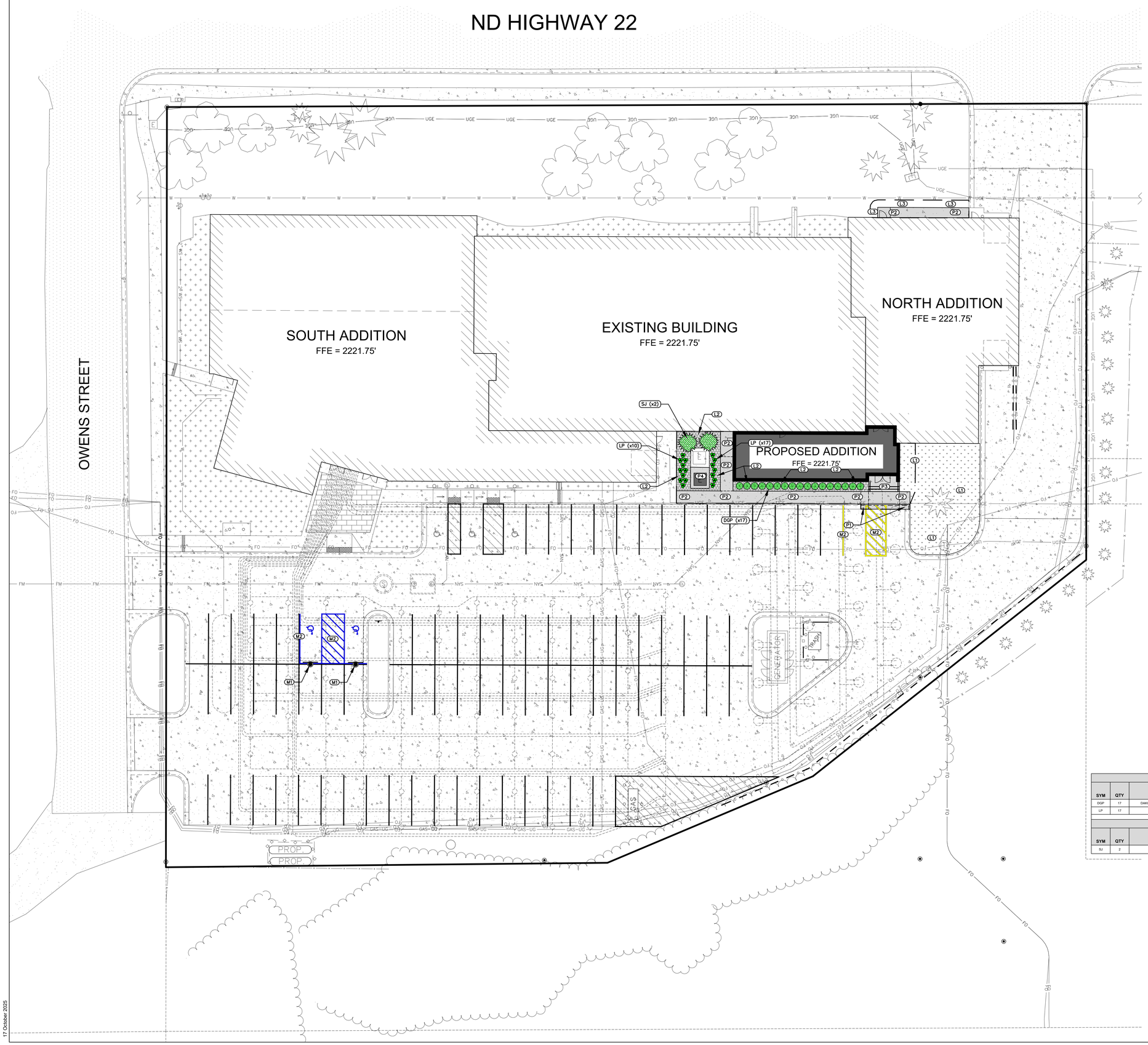
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HE: 241514

SHEET
C101
EXISTING CONDITIONS AND REMOVALS

17 October 2025



PLANT SCHEDULE

DECIDUOUS SHRUBS							
						APPROXIMATE MATURE SIZE	
SYM	QTY	COMMON NAME	BOTANICAL NAME	MIN. SIZE	CONDITION	HEIGHT	WIDTH
DGP	17	DAKOTA GOLDRUSH POTENTILLA	*Potentilla fruticosa 'Abrasia'*	2 GALLON	CONTAINER	30"-36"	36"-48"
LP	17	LEADPLANT	*Amorpha canescens*	2 GALLON	CONTAINER	24"-36"	24"

CONIFEROUS SHRUBS							
						APPROXIMATE MATURE SIZE	
SYM	QTY	COMMON NAME	BOTANICAL NAME	MIN. SIZE	CONDITION	HEIGHT	WIDTH
SJ	2	SAVIN JUNIPER	*Juniperus sabina*	5 GALLON	CONTAINER	4'-6'	5'-10'

0 15' 30'

SCALE: 1" = 15'

SITE PAVING NOTES

P1. INSTALL CURB AND GUTTER PER DETAIL 'P1' IN LOCATION SHOWN.
P2. INSTALL CONCRETE SIDEWALK PER DETAIL 'P2' IN LOCATIONS SHOWN.
P3. INSTALL CONCRETE STEPS IN LOCATION SHOWN. SEE STRUCTURAL PLANS FOR DETAILS.
P4. INSTALL CONCRETE PAD FOR ELECTRICAL EQUIPMENT. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

PAVEMENT MARKING AND SIGN NOTES

M1. INSTALL PIPE BOLLARDS WITH SALVAGED HANDICAP PARKING SIGNS PER DETAIL 'M1' IN LOCATION SHOWN.
M2. PLACE PAVEMENT MARKINGS PER DETAIL 'M2' IN LOCATIONS SHOWN.

LANDSCAPING NOTES

L1. INSTALL IRRIGATION SYSTEM AND IRRIGATED SEED MIX IN LOCATION SHOWN.
L2. PLACE WOOD BARK MULCH OVER WEED BARRIER FABRIC IN LOCATIONS SHOWN, AND INSTALL LANDSCAPE PLANTINGS PER DETAIL 'L2' AS INDICATED BY THE PLANT SCHEDULE.
L3. RELOCATE EXISTING IRRIGATION TO ACCOMMODATE PROPOSED SIDEWALK, AND SEED UNPAVED DISTURBED AREAS WITH IRRIGATED SEED MIX IN LOCATION SHOWN.

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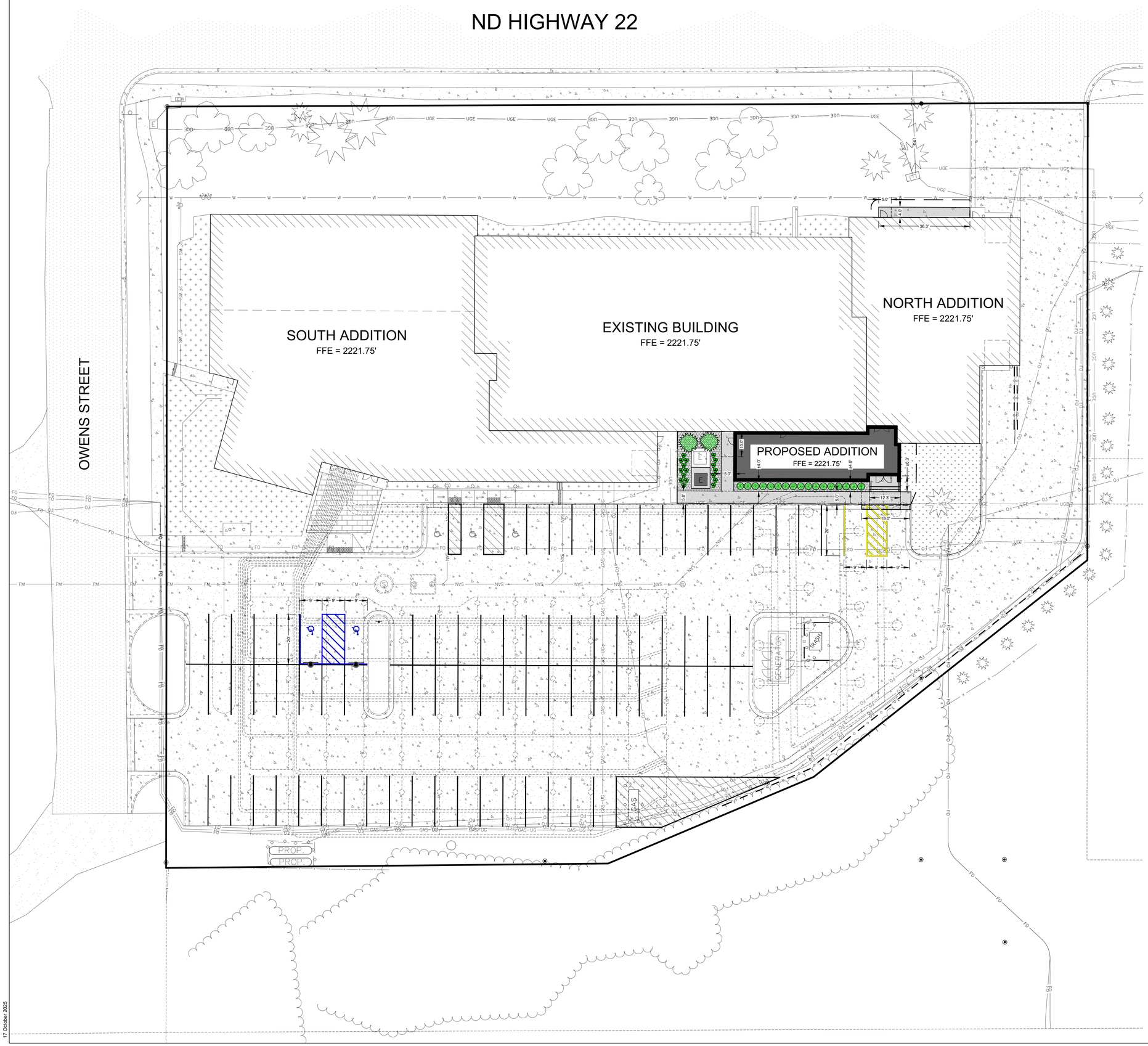
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SITE IMPROVEMENT PLAN

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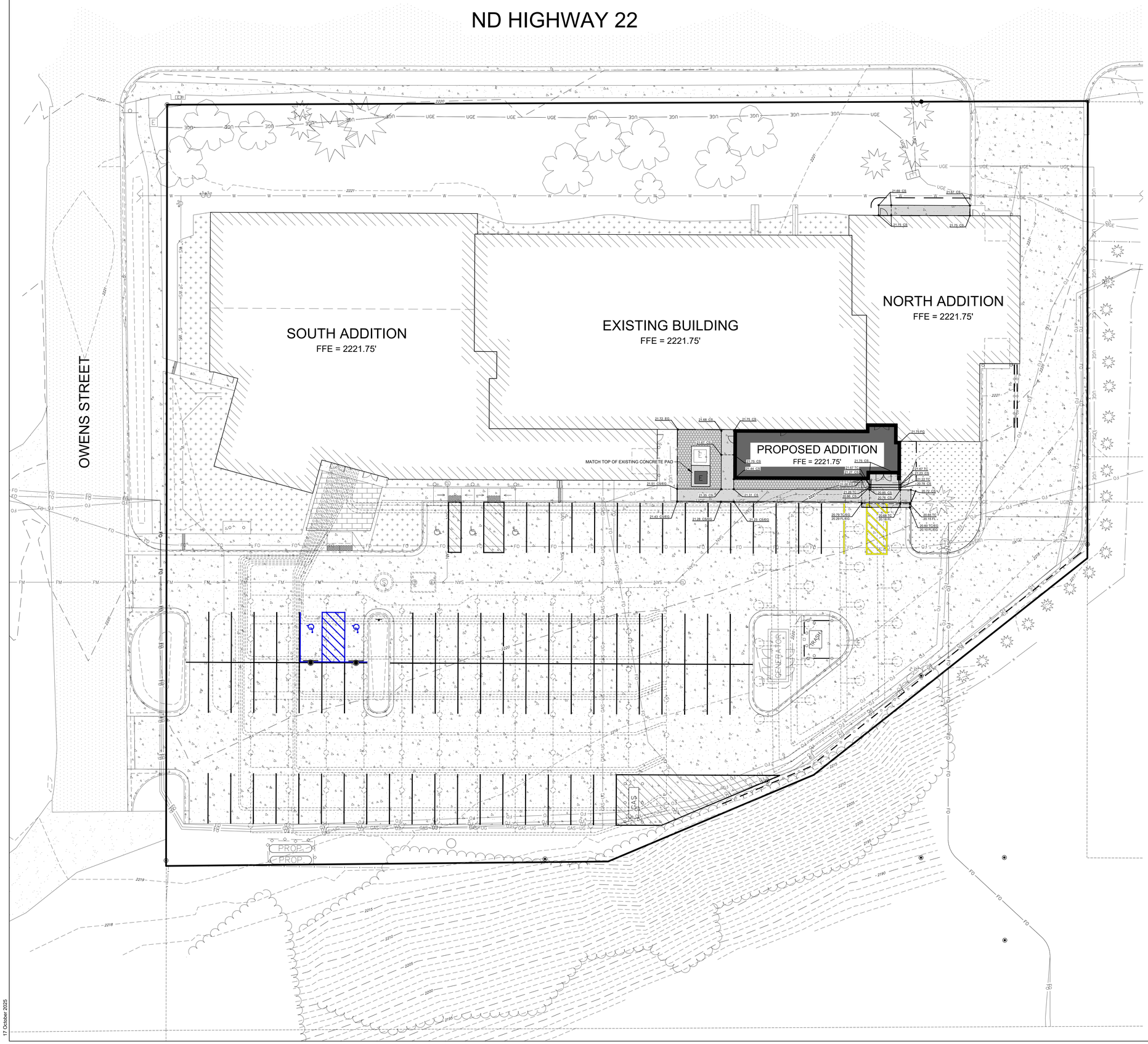
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CONSTRUCTION DOCUMENTS

PROJECT
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SHEET
C202
SITE DIMENSION PLAN

0 15' 30'
SCALE: 1" = 15'

17 October 2025



SITE GRADING NOTES

G1. STRIP AND SALVAGE TOPSOIL FROM AREAS TO BE GRADED. STOCKPILE TOPSOIL FOR RE-USE IN LANDSCAPE AREAS AFTER COMPLETION OF EXCAVATION AND FILLING.

G2. PERFORM EXCAVATION AND FILLING TO THE PROPOSED ELEVATIONS SHOWN PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT, IF AVAILABLE. EXISTING CONTOURS SHOWN ARE 1-FOOT CONTOURS REPRESENTING THE TOP OF EXISTING TOPSOIL OR PAVEMENT. PROPOSED CONTOURS SHOWN ARE 1-FOOT CONTOURS REPRESENTING THE TOP OF FINISHED TOPSOIL OR PAVEMENT SURFACING AS INDICATED.

G3. REPLACE SALVAGED TOPSOIL IN LANDSCAPE AREAS IMMEDIATELY AFTER COMPLETION OF SITE GRADING AND COMMENCE STABILIZATION OF EXPOSED SOILS.

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0 15' 30'

SCALE: 1" = 15'

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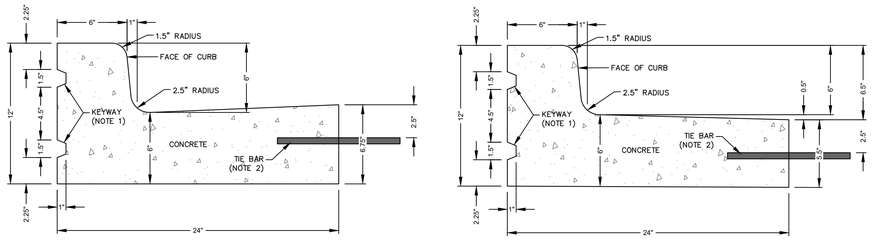
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SITE GRADING PLAN

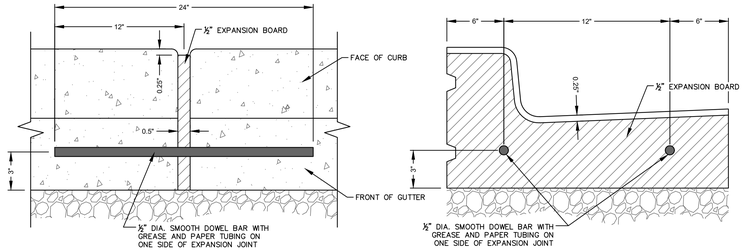


CATCH CURB AND GUTTER

SPILL CURB AND GUTTER

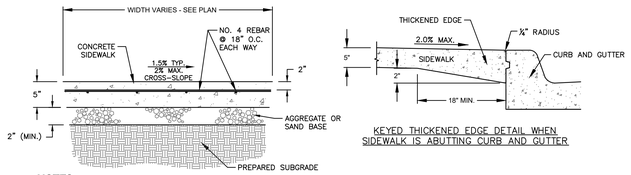
NOTES

1. TOP KEYWAY IS REQUIRED WHEN SIDEWALK IS CONSTRUCTED ADJACENT TO CURB. BOTTOM KEYWAY IS REQUIRED WHEN A DRIVEWAY OR CURB RAMP IS CONSTRUCTED ADJACENT TO THE CURB.
2. ONLY USE TIE BARS WHEN CURB IS ABUTTING CONCRETE PAVEMENT. TIE BARS SHALL BE #4 EPOXY COATED REBAR, 18-INCHES LONG, SPACED AT 36-INCHES ON CENTER.
3. USE CATCH CURB AND GUTTER IN AREAS WHERE SITE DRAINS TOWARDS CURB AND GUTTER. USE SPILL CURB AND GUTTER IN AREAS WHERE SITE DRAINS AWAY FROM CURB AND GUTTER.
4. SUBGRADE MATERIALS AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND/OR SPECIFICATIONS. SUBGRADE ELEVATION SHALL MATCH THAT OF THE ADJOINING PAVEMENT SECTION.
5. INSTALL 6-INCHES MINIMUM AGGREGATE BASE BENEATH THE CURB AND GUTTER. EXTEND AGGREGATE BASE 12-INCHES MINIMUM BEHIND THE BACK OF CURB.
6. CONTRACTION JOINTS SHALL BE ¼" TO ½" WIDE, 2-INCH DEEP TOOLED JOINTS SPACED AS SHOWN IN THE PLANS. JOINTS SHALL BE SEALED WITH HOT POUR SEALANT.
7. EXPANSION JOINS SHALL BE USED BETWEEN SEPARATELY POURED CONCRETES, BETWEEN OLD AND NEW CONCRETE, AT INCREMENTS OF 150-FEET MAXIMUM, ON EACH SIDE OF DRIVEWAYS, AND AT EACH SIDE OF CURB RETURNS.



CURB AND GUTTER EXPANSION JOINTS

P1 CURB AND GUTTER
SCALE: NOT TO SCALE

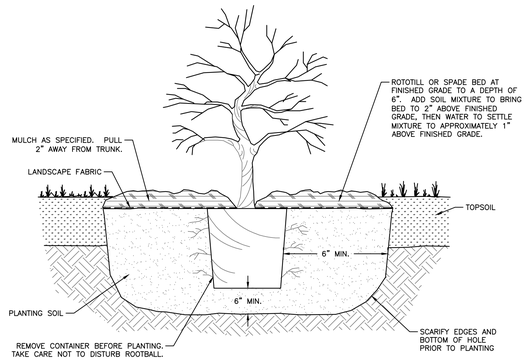


KEYED THICKENED EDGE DETAIL WHEN SIDEWALK IS ABUTTING CURB AND GUTTER

NOTES

1. TRANSVERSE CONTRACTION JOINTS SPACING SHALL BE 4-FEET MINIMUM TO 6-FEET MAXIMUM TO CREATE APPROXIMATELY SQUARE PANELS.
2. LONGITUDINAL CONTRACTION JOINTS SHALL BE USED WHERE THE SIDEWALK WIDTH IS 8-FEET OR GREATER, AND SHALL BE SPACED AT HALF THE SIDEWALK WIDTH.
3. CONTRACTION JOINTS MAY BE SAWED OR GROOVED TO A MINIMUM DEPTH OF 1/3 THE CONCRETE THICKNESS.
4. WHEN THE SIDEWALK IS ADJACENT TO CURB AND GUTTER, THE SIDEWALK JOINT SPACING SHALL BE VARIED TO MATCH UP WITH THE CURB AND GUTTER JOINTS.
5. ISOLATION JOINS CONSISTING OF 1/2" TO 3/4" INCH WIDE PRE-MOLDED EXPANSION MATERIAL EXTENDING THE FULL DEPTH OF THE CONCRETE AND UP TO 1/4" INCH BELOW THE CONCRETE SURFACE SHALL BE USED BETWEEN SEPARATELY POUTED CONCRETES, BETWEEN OLD AND NEW CONCRETE, AT INCREMENTS OF 150-FEET MAXIMUM, ON EACH SIDE OF DRIVEWAYS, AND AT EACH SIDE OF CURB RETURNS.
6. SIDEWALK SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5%.
7. AGGREGATE BASE MAY BE SALVAGED AGGREGATE BASE FROM THE SITE OR ANOTHER SOURCE, NDDOT CL 5 AGGREGATE BASE, OR A PURE SAND BASE.

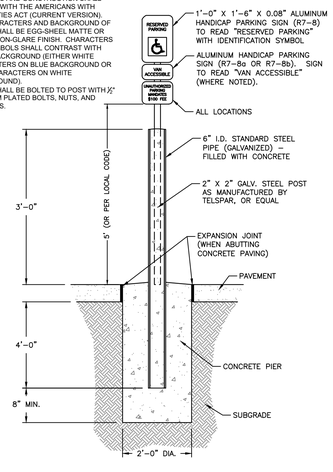
P2 CONCRETE SIDEWALK PAVEMENT SECTION
SCALE: NOT TO SCALE



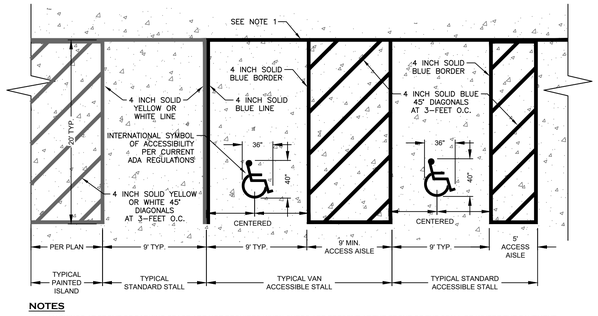
L2 SHRUB PLANTING
SCALE: NOT TO SCALE

NOTES

1. ALL ITEMS AND CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (CURRENT VERSION).
2. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGG-SHEEL MATTE OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND (EITHER WHITE CHARACTERS ON BLUE BACKGROUND OR BLUE CHARACTERS ON WHITE BACKGROUND).
3. SIGNS SHALL BE BOLTED TO POST WITH ¼" CADMIUM PLATED BOLTS, NUTS, AND WASHERS.



M1 HANDICAP PARKING SIGN IN BOLLARD
SCALE: NOT TO SCALE



NOTES

1. MARKINGS AT FRONT OF PARKING SPACE ARE NOT REQUIRED WHEN CURBS ARE PRESENT AT THE FRONT OF THE STALL OR WHERE THE PAVEMENT ENDS AT THE FRONT OF THE STALL.
2. STANDARD PARKING SPACES AND ISLANDS MAY BE WHITE OR YELLOW PAINT, BUT COLOR SELECTED SHALL BE CONSISTENT FOR THE SITE.

M2 TYPICAL PARKING SPACE STRIPING
SCALE: NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
ANDREW SCHRANK
PE-9814
DATE 10/21/25
NORTH DAKOTA

ABOVE IS A DIGITAL SIGNATURE AND DIGITAL STAMP. THE ORIGINAL SIGNED AND STAMPED DOCUMENT RESIDES AT THE OFFICE OF HIGHLANDS ENGINEERING AND SURVEYING, PLLC.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/25
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
HE: 241514
SHEET
C401
CIVIL DETAILS

17 October 2025

GENERAL CONSTRUCTION NOTES:

1. THE INTENT OF THESE PLANS AND NOTES IS TO PRESENT THE PROJECT REQUIREMENTS FOR THE DUNN COUNTY COURTHOUSE REMODEL PROJECT IN MANNING, ND.
2. THESE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. SOME DIMENSIONS, SECTIONS, AND FRAMING DETAILS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS THAT ARE UNKNOWN OR THAT DIFFER THAN AS DEPICTED IN THESE DRAWINGS. SUCH EXISTING CONDITIONS MAY INTERFERE WITH THE NEW CONSTRUCTION OR REQUIRE PROTECTION DURING CONSTRUCTION.
4. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ALL ENCOUNTERED EXISTING CONDITIONS THAT INTERFERE WITH THE PROPER EXECUTION OF NEW WORK OR COMPROMISE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.
5. ALL WORK SHALL COMPLY WITH THE 2021 INTERNATIONAL BUILDING CODE, AS APPROVED BY THE STATE OF NORTH DAKOTA/ CITY OF MANNING.
6. REFERENCE STANDARDS: UNLESS OTHERWISE NOTED, ALL STANDARDS SHALL BE CURRENT EDITION, WITH LATEST ADDENDA, IF APPLICABLE.
7. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
8. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS, METHODS, TIMES, OR PROCEDURES USED TO COMPLETE THE CONSTRUCTION. TEMPORARY BRACING, SHORING, OR PROTECTION OF THE STRUCTURE AGAINST WIND, ERECTION AND OTHER SITE CONDITIONS DURING CONSTRUCTION OF THE BUILDING SHALL BE THE RESPONSIBILITY OF CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF DEMOLITION, CONSTRUCTION, AND INSTALLATION.
10. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
11. SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR ALL OPENINGS AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
12. VERIFY LOCATION OF BOX OUTS AND OPENINGS WITH MECHANICAL AND ELECTRICAL CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR PIPES, DUCTS, ETC ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR BEFORE COMMENCING THE WORK.
13. VERIFY SIZE, NUMBER, AND LOCATION OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. IF EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON PLANS, COORDINATE ADJUSTMENTS WITH THE STRUCTURAL ENGINEER.
14. HOLES, PIPES, SLEEVES, ETC NOT SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.
15. CONTRACTOR SHALL PROVIDE A CAST-IN SLEEVE FOR ALL HORIZONTAL ELEMENTS THAT EXTEND THROUGH FOOTING. IE DRAIN TILE, ELECTRICAL CONDUIT, MECHANICAL PIPING, ETC. ALL SLEEVES SHALL BE COORDINATED WITH ARCHITECT/ENGINEER.
16. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUB CONTRACTORS, ETC, SHALL BE DIMENSIONED, REVIEWED, COORDINATED, AND SIGNED/STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER. MANUFACTURED COMPONENTS SUCH AS TRUSSES OR PRECAST CONCRETE SHALL BE ENGINEERED AND STAMPED PRIOR TO SUBMISSION.
17. FABRICATOR SHALL CLEARLY NOTE CHANGES MADE IN THE SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS. REVIEWED APPROVAL SHOP DRAWINGS SHOWING ENGINEERS COMMENTS ACCOMPANIED WITH RECORD SET SHOP DRAWINGS, SHALL BE AVAILABLE FOR REFERENCE AT THE CONSTRUCTION SITE.
18. EXPANSION ANCHORS SHALL BE HILTI "KWIK BOLT TZ" OR EQUIVALENT (UON). INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
19. ADHESIVE ANCHORS (AA) SHALL BE HILTI "HIT HY-200 USING 'HAS' STANDARD RODS" OR EQUIVALENT (UON). USE HILTI "HIT-ICE" FOR COLD WEATHER APPLICATIONS, SEE SPECIFICATIONS FOR USAGE. INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
20. CONCRETE SCREW ANCHORS (CSA) SHALL BE SIMPSON STRONG-TIE "TITEN HD" OR EQUIVALENT (UON). INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
21. DESIGN LOADS:

ROOF LIVE LOADS:

FLAT ROOF SNOW	P_f	= 30 psf
EXPOSURE FACTOR	C_e	= 1.0
IMPORTANCE FACTOR	I_s	= 1.1
THERMAL FACTOR	C_t	= 1.0
GROUND SNOW LOAD	P_g	= 30 psf
DRIFT SURCHARGE LOAD	P	= SEE PLAN
DRIFT WIDTH	W	= SEE PLAN
CONSTRUCTION LOADING		= 25 psf

DEAD LOADS:

TYPICAL ROOF	= 20 psf

LATERAL LOADS (WIND-MWFRS):

ULTIMATE DESIGN WIND SPEED (3 SEC. GUST)	V_{ult}	= 120 mph
NOMINAL DESIGN WIND SPEED	V_{asd}	= 93 mph
WIND EXPOSURE		= 'C'
INTERNAL PRESSURE COEFFICIENT		= +/- 0.18
RISK CATEGORY		= III
COMPONENTS & CLADDING	q_h	= 25 psf (VELOCITY PRESSURE)

LATERAL LOADS (SEISMIC-MSFRS):

RISK CATEGORY		= III
IMPORTANCE FACTOR	I_E	= 1.0
MAPPED SPECTRAL RESPONSE	S_S	= 0.050
	S_1	= 0.024
SITE CLASS		= "D" (ASSUMED)
DESIGN SPECTRAL RESPONSE	S_{DS}	= 0.052
	S_{D1}	= 0.039
SEISMIC DESIGN CATEGORY		= "A"
BASIC SEISMIC FORCE-RESISTING SYSTEM		F.R. SYSTEM=STEEL BRACED FRAMES
DESIGN BASE SHEAR	V_S	= 0.010W
SEISMIC RESPONSE COEFFICIENT	C_s	= 0.010
RESPONSE MODIFICATION FACTOR	R	= 6.5
ANALYSIS PROCEDURE		E.L.F.A.

22. THE FOLLOWING STANDARD DETAILS SHALL APPLY:

1/S501	TYP STEPPED FOOTING
2/S501	TYP FOOTING CORNER REINFORCEMENT
3/S501	TYP CORNER BAR
4/S501	TYP WALL INTERSECTION
5/S501	TYP WALL CONSTRUCTION JOINT-WCJ
6/S501	TYP FLOOR CONSTRUCTION JOINT (CCJ)
7/S501	TYP FLOOR CONTROL JOINT (CJ)
4/S501	STOOP DETAIL
8/S501	ADDITIONAL REINFORCING AT OPENING
1/S501	THICKENED SLAB
10/S501	ISOLATION JOINT
	CMU CONTROL JOINT
	CMU CORNER BAR
	CMU WALL REINFORCING
	CMU WALL CORNER
	JOIST BRIDGING ANCHORAGE
6/S401	JOIST REINFORCING
11/S401	ROOF DECK OPENING
	MECH SUPPORT
5/S401	ROOF DECK FASTENING
	FLOOR DECK FASTENING
4/S401	STEEL BEAM CONNECTION
	COLD-FORMED HEADER
	COLD-FORMED WALL BRIDGING
	COLD-FORMED JOIST BRIDGING
	COLD-FORMED TRACK CONNECTION
	COLD-FORMED TRACK SPLICE
	COLD-FORMED WALL SLIP CONNECTION

FOUNDATION NOTES:

1. FOOTING ELEVATIONS ARE TO TOP OF FOOTING (T.O.F.), (UON).
2. FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 4000 psf FOR CONTINUOUS AND 4000 psf FOR PAD FOOTINGS. FOUNDATION DESIGN COMPLIES WITH GEOTECHNICAL REPORT #25-041 DATED: SEPTEMBER 4TH, 2025 BY MATERIAL TESTING SERVICES, LLC.
3. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ENGINEERED FILL. SOILS SHALL BE OBSERVED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOOTING CONCRETE. IF NATURAL UNDISTURBED SOILS ARE NOT ENCOUNTERED AND/OR INADEQUATE SOILS ARE NOTED AT FOOTING BEARING LEVEL, ARCHITECT/ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH FURTHER WORK AT THOSE FOOTING LOCATIONS.
4. PROTECT FOOTINGS FROM THE ACTION OF WATER OR FREEZING.
5. FOOTINGS ARE CENTERED UNDER WALLS ABOVE (UON).
6. PRIOR TO PLACEMENT OF FOOTING CONCRETE, CLEAN FOOTING EXCAVATIONS OF SNOW, WATER, MUD, DIRT, AND DEBRIS.
7. FOOTINGS SHALL <u>NOT</u> BE EARTH FORMED.

EXCAVATION AND BACKFILL NOTES:

1. EXCAVATION AND BACKFILL SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. BACKFILL AND COMPACTION SHALL BE INSPECTED AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER. REPORTS ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER.
3. FOOTING EXCAVATIONS SHALL BE EXCAVATED TO PROPER LINE AND LEVEL TO ENSURE MINIMUM CONCRETE COVER OF FOOTING REINFORCEMENT FOR FOOTING DEPTH.
4. ALL BACKFILL BELOW STRUCTURAL FOUNDATIONS AND SLABS ON GRADE BOTH INTERIOR AND EXTERIOR, IF NOT SPECIFIED IN CONTRACT DOCUMENTS OR SPECIFICATIONS, SHALL BE SOIL TYPE SP OR SP-SM ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM. GRADATION MUST BE 100% PASSING 2" SIEVE WITH <20% PASSING #200 SIEVE. BACKFILL MUST BE FREE OF ORGANICS.
5. BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS. FLOODING OR WATER INUNDATION SHALL NOT BE PERMITTED.
6. BACKFILL SHALL BE PLACED IN 8" (ALTERNATING) LIFTS ON EACH SIDE OF THE FOUNDATION WALLS TO MAINTAIN STABILITY OF FOUNDATION WALLS. COMPACT EACH LIFT TO THE FOLLOWING DENSITY (ASTM D698):

    98% DRY DENSITY - BELOW FOOTINGS
    98% DRY DENSITY - BELOW SLABS ON GRADE
    95% DRY DENSITY - EXTERIOR FOUNDATION WALL BACKFILL

7. BACKFILL SHALL NOT BE PLACED AGAINST BASEMENT FOUNDATION WALLS UNLESS WALLS ARE ADEQUATELY BRACED, TOP AND BOTTOM. FINAL WALL BRACING IS BASEMENT SLAB AND 1ST FLOOR STRUCTURE. IF THESE ELEMENTS ARE NOT IN PLACE AT TIME OF BACKFILL, CONTRACTOR SHALL PROVIDE AN ENGINEERED, TEMPORARY BRACING SYSTEM. THE TEMPORARY BRACING SYSTEM PROPOSED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BACKFILLING.
8. THE CONTRACT STRUCTURAL DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS AND METHODS USED TO PERFORM THE EXCAVATION IS AT THE SOLE DISCRETION OF THE CONTRACTOR, INCLUDING THE DESIGN AND INSTALLATION OF TEMPORARY BRACING OR SHORING. CONTRACTOR IS RESPONSIBLE FOR ALL CODE AND REGULATORY SAFETY REQUIREMENTS.

MASONRY NOTES:

1. CONCRETE BLOCK MASONRY UNITS SHALL CONFORM TO GRADE 'N', MOISTURE CONTROLLED TYPE I REQUIREMENTS OF ASTM C90, WITH AN ASSUMED COMPRESSIVE STRENGTH F'm = 1900 PSI. MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE 'M' OR TYPE 'S', WITH TYPE 'M' BELOW GRADE.
2. BOND BEAMS SHALL HAVE 2 - #5 REINFORCING BARS CONTINUOUS. PROVIDE AT TOP OF WALLS AND WHERE SHOWN ON PLAN OR DETAILS. SEE STANDARD DETAILS FOR TYPICAL CORNER BARS. EXTEND VERTICAL REINFORCEMENT THROUGH BOND BEAM WHERE APPLICABLE.
3. ALL MASONRY LINTEL BEAMS AND BOND BEAMS WHERE NOTED SHALL BE A 'U' BLOCK TYPE UNIT.
4. CONCRETE GROUT FOR UNIT MASONRY CORES AND BOND BEAMS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 psi.
5. MASONRY WALLS ARE TO BE SUPPORTED LATERALLY UNTIL THE ENTIRE ROOF AND/OR FLOOR IS IN PLACE AS DETAILED.
6. WIRE REINFORCING FOR CMU WALLS SHALL BE CORROSION RESISTANT 9 GA HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A951. REINFORCING SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS WITH MAXIMUM SPACING OF 1'-4" O.C. (UON)
7. MASONRY REINFORCING SHALL BE LAPPED AS FOLLOWS:

    #3 BAR = 1' - 6"
    #4 BAR = 2' - 0"
    #5 BAR = 2' - 6"
    #6 BAR = 3' - 0"
    #7 BAR = 3' - 6"
    #8 BAR = 4' - 0"

8. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT 192 (REINF) DIAMETER INTERVALS MAXIMUM. LENGTH OF REINFORCING BARS TO BE COORDINATED WITH GENERAL CONTRACTOR AND MASONRY CONTRACTOR.
9. WHERE CELLS ARE TO BE FILLED WITH CONCRETE GROUT, PROVIDE ADDITIONAL FULL MORTAR BED AT CROSS WEBS ENCLOSING GROUTED CELL.
10. CONSOLIDATE ALL CONCRETE GROUT BY PUDDLING OR VIBRATING.
11. BLOCK COURSING SHOWN ON STRUCTURAL PLANS MAY NOT BE REPRESENTATIVE OF ACTUAL COURSING. SEE ARCHITECTURAL PLANS AND SECTIONS FOR ACTUAL LAYOUT OF BLOCK COURSING.
12. MASONRY PIERS SHALL BE LAID UP SIMULTANEOUSLY WITH WALLS AND SHALL BE INTERLOCKED WITH WALL BLOCKS.
13. FIRST COURSE OF ALL HOLLOW MASONRY SHALL BE PLACED ON A FULL BED OF MORTAR.
14. CAST DOWELS, WITH STANDARD HOOKS, IN FOOTINGS FOR PIERS AND WALLS ABOVE. DOWELS SHALL BE THE SAME SIZE AND SPACING OF VERTICAL REINFORCING UON.
15. ALL OPENINGS IN MASONRY WALLS REQUIRE A LINTEL. FOR OPENINGS WHICH HAVE NOT BEEN CALLED FOR ON PLAN,THE FOLLOWING SCHEDULE SHALL APPLY:

LOOSE LINTEL SCHEDULE

SPAN	4" VENEER	8" WALL	12" WALL	16" WALL
0'-0" - 4'-0"	L3-1/2x3-1/2x1/4	2- L3-1/2x3-1/2x1/4	W8X10 W/ PL1/4"	W8X10 W/ PL1/4"
4'-0" - 6'-0"	L4x3-1/2x1/4	2- L4x3-1/2x1/4	W8X10 W/ PL1/4"	W8X10 W/ PL1/4"
6'-0" - 8'-0"	L5x3-1/2x1/4	2- L6x3-1/2x1/4	W8X18 W/ PL1/4"	W8X24 W/ PL1/4"
8'-0" - 10'-0"	L6x3-1/2x1/4	W8X10 W/ PL1/4"	W8X24 W/ PL1/4"	W8X28 W/ PL1/4"

NOTES:

1. LINTELS SHALL HAVE A BEARING OF 2" PER FOOT OF SPAN @ EACH END (6" MINIMUM).
2. SEE ARCHITECTURAL, MECHANICAL, & ELECTRICAL PLANS FOR OPENINGS NOT SHOWN.
3. SUPPLY A MINIMUM 100 - 0" OF L3-1/2x3-1/2x1/4 FOR MECHANICAL OPENINGS.
4. FOR SPANS GREATER THAN 10'-0", CONTACT STRUCTURAL ENGINEER OF RECORD.

SPECIAL INSPECTIONS:

1. THE CONTRACTOR SHALL COORDINATE THE TESTING AND INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE TESTING OR INSPECTION AGENCY OF THE REQUIRED WORK TO ALLOW ALLOCATION OF PERSONNEL. THE COST OF ANY RETESTING OR ADDITIONAL INSPECTIONS AS A RESULT OF UNINSPECTED WORK, FAILED TESTS, OR REJECTED WORK, SHALL BE BORNE BY THE CONTRACTOR.
2. THE FOLLOWING TABLE INCLUDES ITEMS REQUIRING SPECIAL INSPECTION PROVIDED BY THE <u>OWNER</u>. SPECIAL INSPECTIONS LISTED IN THIS TABLE MAY NOT INCLUDE ALL INSPECTIONS AND/OR TESTING THAT IS REQUIRED FOR THE PROJECT PER IBC CHAPTER 17. ADDITIONAL TESTING MAY BE REQUIRED BY THE CONTRACTOR, AS PART OF THEIR CONTRACT. THESE "SPECIAL INSPECTIONS" ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL THAT ARE IDENTIFIED IN SECTION 110 IBC.

REQUIRED SPECIAL INSPECTION

DESCRIPTION OF WORK	TESTING REQUIRED	INSPECTION FREQUENCY	REMARKS
GRADING, EXCAVATION, & FILLING	YES	PERIODIC (CONT DURING FILL)	SEE IBC TABLE 1705.6
CONCRETE FORMWORK	NO	PERIODIC	SEE IBC TABLE 1705.3 ITEM NO 12
CONCRETE REINFORCEMENT	NO	PERIODIC	SEE IBC TABLE 1705.3 ITEM NO 1
CONCRETE REINFORCEMENT	NO	PERIODIC (CONT FOR MULTIPASS WELDS)	SEE IBC TABLE 1705.3 ITEM NO 2
CAST-IN-PLACE CONCRETE	YES	PERIODIC (CONT DURING PLACEMENT)	SEE IBC TABLE 1705.3 ITEM NO 5, 6, 7, 8, & 11
CAST-IN-PLACE CONCRETE CURING & PROTECTION	NO	PERIODIC	CURING TECHNIQUES
ANCHOR RODS INSTALLED IN CONCRETE	NO	PERIODIC	SEE IBC TABLE 1705.3 ITEM NO 3
POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE	NO	CONTINUOUS	SEE IBC TABLE 1705.3 ITEM NO 4a
POST-INSTALLED MECHANICAL	NO	PERIODIC	SEE IBC TABLE 1705.3 ITEM NO 4b
STRUCTURAL STEEL WELDING	YES	PERIODIC (10% OF ALL WELDS)	SEE AISC360 TABLE N5.4-1 THRU 3
STRUCTURAL STEEL BOLTING	NO	PERIODIC	SEE AISC360 TABLE N5.6-1 THRU 3
COLD-FORMED STEEL DECKING	NO	PERIODIC	IN ACCORDANCE WITH SDI QA/QC-2017
OPEN-WEB STEEL JOIST	NO	PERIODIC	SEE IBC TABLE 1705.2.3 ITEM NO 1a, 1b.1, 1b.2
COLD-FORMED STEEL MECHANICAL CONNECTIONS	NO	PERIODIC	FIELD CONNECTIONS
COLD-FORMED STEEL WELDING	NO	PERIODIC	FIELD CONNECTIONS
COLD-FORMED STEEL TRUSSES	NO	PERIODIC	FOR SPANS 60' & GREATER
COLD-FORMED STEEL FRAMING	NO	PERIODIC	FRAMING AND DETAILS
SPRAYED-ON FIREPROOFING PREPARATION	NO	PERIODIC	INSPECT SUBSTRATE PRIOR TO APPLICATION
SPRAYED-ON FIREPROOFING APPLICATION	YES	PERIODIC	TEST THICKNESS, DENSITY, & BOND STRENGTH
MASTIC & INTUMESCENT COATINGS	NO	PERIODIC	INSPECT SUBSTRATE AND APPLICATION

CONCRETE NOTES:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.

    ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
    ACI 315 "DETAILS & DETAILING OF CONCRETE REINFORCEMENT"
    ACI 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

2. CAST-IN-PLACE CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH IS AS FOLLOWS:

    3000 psi - FOOTINGS & FOOTING PADS
    3000 psi - EXTERIOR FOUNDATION WALLS
    3000 psi - INTERIOR FOUNDATION WALLS
    3000 psi - PIERS
    3000 psi - COLUMNS
    3000 psi - WALLS
    3000 psi - BEAMS
    4000 psi - INTERIOR SLABS ON GRADE
    4000 psi - EXTERIOR SLABS ON GRADE - AIR ENTRAINED
    4000 psi - RAISED SLABS
    4000 psi - EXTERIOR SLABS ON DECK - AIR ENTRAINED
    4000 psi - CONCRETE FOR PILE CAPS
    4000 psi - MASONRY GROUT
    4000 PSI - STAIR PAN FILL

3. CONCRETE MIX DESIGNS SHALL BE BY AN INDEPENDENT TESTING LABORATORY, AND SUBMITTED FOR REVIEW & APPROVAL.
4. CAST-IN-PLACE CONCRETE SHALL BE SUBJECT TO TESTING BY AN INDEPENDENT TESTING LABORATORY. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS.
5. NON-WELDED REINFORCING STEEL SHALL BE GRADE 60 DEFORMED, BILLET-STEEL, ASTM A615, UON ALL WELDED WIRE FABRIC (WWF) SHALL BE PLAIN ASTM A185.
6. WELDED REINFORCING STEEL SHALL BE GRADE 60, LOW CARBON, ASTM A706.
7. CLEAR CONCRETE COVER FOR ALL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE DRAWING:

CONCRETE ON SOIL	3"
SLAB ON GRADE	MID-HEIGHT
WALLS, STRUCTURAL SLABS-	
FORMED & EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18	2"
#5 & SMALLER	1 1/2"
NOT EXPOSED TO EARTH & WEATHER:	
#11 & SMALLER	3/4"
BEAMS & COLUMNS (COVER TO STIRRUPS OR TIES)	1 1/2"

8. PROVIDE EXTRA REINFORCEMENT AROUND ALL OPENINGS GREATER THAN 1'-0" SQUARE OR 1'-0" IN DIAMETER, INCLUDING DOOR OPENINGS, IN CONCRETE WALLS & SLABS. PROVIDE 2 - #5 BARS @ 3" OC, ON EACH SIDE OF THE OPENING EXTENDING 2'-0" BEYOND THE CORNER OF THE OPENING & 2- #5 BARS AT 3" OC BY 3'-0" LONG DIAGONAL BARS AT EACH CORNER. PLACE DIAGONAL BARS CENTERED ON CORNER @ 2" CLEAR OF CORNER. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AT EACH LAYER OF REINFORCING.
9. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).
10. PROVIDE LAP SPLICE FOR REINFORCING STEEL AS FOLLOWS:
    TYPE #1 SPLICE - ONLY WHERE SPECIFICALLY SHOWN ON PLAN.
    TYPE #2 SPLICE - TYPICAL FOR HORIZONTAL REINFORCING BARS IN SLABS, GRADE BEAMS, FOOTINGS AND FOUNDATION WALLS (UON)
    TYPE #3 SPLICE - WHERE CONCRETE COVER IS LESS THAN Bd AND THE SPACING IS LESS THAN 2 Bd
    TYPE #4 SPLICE - TYPICAL FOR VERTICAL BARS IN COLUMNS AND PIERS (UON)

REINFORCING STEEL SPLICE LENGTHS STANDARD NON-COATED BARS

CONCRETE STRENGTH f'c	TYPE #1 SPLICE CLASS A SPLICE #6 & SMALLER	#7 & LARGER	TYPE #2 SPLICE CLASS B SPLICE #6 & SMALLER	#7 & LARGER	TYPE #3 SPLICE CLASS B SPLICE #6 & SMALLER	#7 & LARGER	TYPE #4 SPLICE COMPRESSION SPLICE #4 & LARGER
3000 psi	44 Bd	55 Bd	57 Bd	71 Bd	85 Bd	107 Bd	30 Bd
3500 psi	41 Bd	51 Bd	53 Bd	66 Bd	78 Bd	98 Bd	30 Bd
4000 psi	38 Bd	47 Bd	49 Bd	62 Bd	74 Bd	92 Bd	30 Bd
5000 psi	34 Bd	42 Bd	44 Bd	55 Bd	66 Bd	83 Bd	30 Bd
6000 psi	31 Bd	38 Bd	40 Bd	50 Bd	60 Bd	76 Bd	30 Bd

NOTES: Bd = BAR DIAMETER

A. MIN. LAP. 1' - 6" FOR TYPE #1 THROUGH TYPE #3 & 1' - 0" FOR TYPE #4 SPLICES.
B. MULTIPLY THE SPLICE LENGTH ABOVE BY THE FOLLOWING ADJUSTMENT FACTORS:
    a. 1.0 - FOR STANDARD REBAR
    b. 1.3 - WHEN HORIZONTAL REINFORCING HAS MORE THAN 1' - 0" OF FRESH CONCRETE, PLACE BELOW BAR.
    c. 1.3 - FOR LIGHTWEIGHT CONCRETE
    d. 1.2 - FOR TYPICAL EPOXY COATED REBAR
    e. 1.5 - FOR EPOXY COATED REBAR WITH COVER LESS THAN 3 Bd OR CLEAR SPACING LESS THAN 6 Bd
    f. Fy USED/60 - FOR REBAR STRENGTHS OTHER THAN 60 ksi
C. ALL ADJUSTMENT FACTORS THAT APPLY SHALL BE USED TO CALCULATE REQUIRED SPLICE LENGTH.

11. PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD REINFORCING BARS FIRMLY IN PLACE TO SPECIFIED COVERAGE.
12. UNLESS SHOWN SPECIFICALLY ON PLAN, CONTROL JOINTS SHALL BE PLACED IN A SQUARE PATTERN WITH A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. WHERE A SQUARE PATTERN IS NOT POSSIBLE, THE MAXIMUM LONG SIDE TO SHORT SIDE OF THE JOINT PATTERN SHALL NOT EXCEED A RATIO OF 1.25:1. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTORS AS REQUIRED FOR CONSTRUCTION WITH A MAXIMUM OF 3,000 SQUARE FEET. CONTRACTOR SHALL SUBMIT A JOINT PLACEMENT PLAN TO OWNER/ARCHITECT/ENGINEER FOR REVIEW PRIOR TO POURING CONCRETE.
13. CAST DOWELS, WITH STD 90° HOOK, IN FOOTINGS FOR CONCRETE PIERS AND WALLS ABOVE. DOWELS SHALL BE THE SAME SIZE AND NUMBER AS THE VERTICAL REINFORCING, (UON).
14. SUPPLY 50 FEET EXTRA OF #5 REBAR FOR MISC PLACEMENT AS DIRECTED BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL INCLUDE ALLOWANCE FOR PROJECTED LABOR COSTS INVOLVED WITH INSTALLATION OF REINFORCEMENT.

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/25
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET S001
GENERAL NOTES

10/21/2025 10:33:50 AM

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL WORK SHALL CONFORM TO AISC 360 & AISC 341 WITH THE FOLLOWING ASTM MATERIAL SPECIFICATIONS:

A992	W, AND WT SHAPES	Fy = 50 ksi
A500	GRADE C - HSS PIPES	Fy = 46 ksi
A500	GRADE C - HSS TUBES	Fy = 50 ksi
A36	M, S, C, MC, & L (ANGLES) SHAPES PLATES, BARS & THREADED RODS	Fy = 36 ksi
F1554	GRADE 36 - ANCHOR RODS	Fy = 36 ksi
	GRADE 55 - ANCHOR RODS	Fy = 55 ksi (WELDABLE)
	GRADE 105 - ANCHOR RODS	Fy = 105 ksi
F3125	GRADE A325 (GROUP A) - BOLTS	Fy = 120 ksi
	GRADE A490 (GROUP B) - BOLTS	Fu = 150 ksi
A563	CONNECTION NUTS	
F436	WASHERS	
A108	TYPE B - HEADED STUD ANCHORS	Fy = 65 ksi
E70XX	ELECTRODES	Fexx = 70 ksi

2. WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF:
   AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
   AWS - AMERICAN WELDING SOCIETY
3. COLUMN BASE AND CAP PLATES TO BE WELDED AROUND ALL SIDES.
4. BOTTOM PLATE OF STEEL LINTELS SHALL BE WELDED TO THE BEAM WITH 3/16" FILLET WELD (BOTH SIDES) 3" LONG @ 1'-0" OC (UON).
5. WELDS NOT SPECIFIED SHALL BE A FILLET WELD, CONTINUOUS AND/OR ALL AROUND WITH MINIMUM THROAT DIMENSION AS REQUIRED FOR MATERIAL THICKNESS PER AWS.
6. STRUCTURAL FABRICATORS SHALL SHOW ALL FIELD WELDING REQUIREMENTS ON SHOP DRAWINGS SUBMITTED TO THE ENGINEER.
7. BEFORE ENCASING STEEL COLUMNS IN CONCRETE OR MASONRY, COAT COLUMN BASES AND TOPS OF ANCHOR BOLTS WITH ASPHALTIC ROOF CEMENT.
8. BEAMS AND COLUMNS SHALL BE ERECTED TRUE AND PLUMB WITHIN AISC TOLERANCE. PROVIDE TEMPORARY BRACING AS REQUIRED.
9. BEARING PLATES FOR STEEL COLUMNS SHALL BE DRY PACKED WITH A NON-SHRINK, NON-METALLIC GROUT AS SPECIFIED.
10. BRIDGING SHALL BE SUPPLIED AND DESIGNED BY THE STEEL JOIST SUPPLIER, AS PER SJI STANDARDS, FOR THE PROJECT DESIGN LOADS. STEEL JOIST SUPPLIER TO PROVIDE CONNECTIONS TO ANCHOR BRIDGING TO MASONRY AND/OR CONCRETE WALLS. SEE STANDARD DETAILS.
11. PROVIDE DOUBLE ANGLE CONNECTIONS AS DESCRIBED IN PART 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION
    - CONNECTIONS SHALL BE SELECTED TO SUPPORT BEAM END REACTIONS INDICATED ON THE CONSTRUCTION DOCUMENTS.
    - IF BEAM END REACTIONS ARE NOT INDICATED, CONNECTIONS SHALL BE SELECTED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD CAPACITY GIVEN IN THE ALLOWABLE UNIFORM LOAD TABLES, PART 3, FOR THE SPECIFIED BEAM SIZE, SPAN, AND STEEL GRADE (UON). OTHER RATIONAL ENGINEERING CONNECTION DESIGN AND STANDARD CONNECTION DETAILS MAY BE USED WITH APPROVAL OF THE ENGINEER.
    - CONNECTIONS SHALL HAVE MINIMUM ROWS OF BOLTS FOR BEAM DEPTHS AS INDICATED IN PART 10.
12. FRAMED STEEL BEAM CONNECTIONS SHALL BE "BEARING TYPE" UON.
13. STEEL BEAM KEY:

    W16x40 (15) (3/4") (-0'-0")
    20 20 (BEAM END REACTION/MOMENT)

    (15) = BEAM SIZE
    (3/4") = NUMBER OF HEADED STUDS (EQUALLY SPACED)
    (-0'-0") = CAMBER
    20 = ELEVATION FROM T.O. STEEL
14. BEAMS SHALL BE MARKED AND ERECTED WITH NATURAL CAMBER PLACED UPWARDS.
15. DO NOT PAINT STEEL SURFACES TO BE FIELD WELDED.
16. DO NOT PAINT STEEL SURFACES THAT HEADED STUD ANCHORS WILL BE WELDED TO.
17. ALL HEADED STUD ANCHORS TO BE ATTACHED TO STEEL SECTION USING ELECTRIC ARC WELDING GUN.
18. FOR STEEL TO RECEIVE SPRAY APPLIED FIREPROOFING, VERIFY STEEL SURFACE PREPARATION REQUIREMENTS WITH MANUFACTURER.
19. SUPPLY 25 FEET EXTRA OF L3x3x1/4 ANGLE FOR MISC BRACING, ETC AS DIRECTED BY ARCHITECT/ENGINEER. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR ERECTION OF STEEL ANGLE.
20. STEEL JOISTS TO BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.
21. METAL DECK TO BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.

    ROOF DECK - 1 1/2" DEEP, TYPE B, 20 GA,
    AS MADE BY VULCRAFT OR EQUAL

    STOOP DECK - 1 1/2" DEEP, TYPE C, 20 GA, GALVANIZED,
    AS MADE BY VULCRAFT OR EQUAL
22. VERIFY LOCATION OF ROOF OPENINGS WITH MECHANICAL CONTRACTOR. ROOF OPENINGS SHALL BE FRAMED WITH L3x3x3/8 ON FOUR SIDES (UON). SEE STANDARD DETAILS.
23. ROOF PERIMETER STEEL ELEMENTS SUCH AS ANGLES OR BENT PLATES, NOTED TO BE CONTINUOUS, SHALL BE FIELD SPLICED WITH A FULL LENGTH SQUARE GROOVE FULL PENETRATION WELD UTILIZING A MINIMUM 3/16" ROOT OPENING.

COLD-FORMED FRAMING NOTES:

1. COLD-FORMED STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
   AMERICAN IRON AND STEEL INSTITUTE (AISI) - "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS", LATEST EDITION

   ASTM C-955 - "STANDARD SPECIFICATION FOR LOAD BEARING STEEL STUDS, TRACKS AND BRIDGING.", LATEST ADDITION

   ASTM C-1007 - "STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING STEEL STUDS AND RELATED ACCESSORIES", LATEST ADDITION
2. COLD-FORMED FRAMING MEMBERS SHALL BE SIZED AS SHOWN ON THE CONTRACT DOCUMENTS.
3. TRACKS SHALL BE INSTALLED AT THE TOPS AND BOTTOMS OF ALL VERTICAL STUDS AND SHALL BE THE SAME GAUGE AS THE WALL STUDS. TRACKS SHALL BE CONNECTED TO THE STUDS WITH #10 SCREWS (MINIMUM), ONE AT EACH FLANGE.
4. WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST RECOMMENDATION OF:
   AISI - AMERICAN IRON AND STEEL INSTITUTE
   AWS - AMERICAN WELDING SOCIETY
5. NON-BEARING COLD-FORMED FRAMING MEMBERS SHALL BE DESIGNED TO SUPPORT LATERAL LOADS & DEFLECTION AS INDICATED BELOW:
   EXTERIOR WALLS: 20 PSF; L/360
   INTERIOR WALLS: 10 PSF; L/240
6. YIELD STRENGTH:
   33 ksi - 18 GA AND LIGHTER - ASTM A653, A875, A792, OR A1003
   50 ksi - 16 GA AND HEAVIER - (G-60 GALV FINISH, MINIMUM)
7. ALL WALL STUDS SHALL BE BRACED WITH A COLD ROLLED CHANNEL RUN THROUGH THE STUD PUNCH OUTS AND ATTACHED TO A CLIP ANGLE AT EACH STUD. THE COLD ROLLED CHANNELS SHALL BE 1 1/2", 16 GA, U-CHANNEL AND ATTACHED WITH TWO SCREWS PER FLANGE. AT SPLICES, OVERLAP THE CHANNEL BY 1'-0". VERTICAL SPACING OF U-CHANNELS SHALL NOT EXCEED 4'-0" OC. SEE PLANS & DETAILS.
8. STRUCTURAL FRAMING MEMBERS SHALL CONFORM TO ASTM C955 AND HAVE ENGINEERING PROPERTIES CALCULATED IN CONFORMANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
9. NO NOTCHING OF STUDS, JOISTS, BEAMS, OR TRUSS MEMBERS IS PERMITTED WITHOUT THE ENGINEERS APPROVAL.
10. WEB PUNCH OUTS MUST BE LOCATED AT A MINIMUM 1'-0" CLEAR FROM ALL BEARING LOCATIONS.
11. JOISTS MUST BE BRACED AGAINST ROTATION AT ALL BEARING SUPPORTS BY TRACK OR BLOCKING.
12. PROVIDE HORIZONTAL BRIDGING AT ALL JOIST MEMBERS AS RECOMMENDED BY THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS" WITH MINIMUM ROWS AS FOLLOWS: (UON)
    SPANS UP TO 14' - 0" - 1 ROW AT MIDPOINT
    14' - 0" UP TO 20' - 0" - 2 ROWS AT THIRD POINTS
    20' - 0" & GREATER - 1 ROW EVERY 6'-0" OC
    BRIDGING MATERIALS SHALL BE SAME GRADE AND GAUGE AS JOIST MEMBERS.
13. TRACKS SHALL BE INSTALLED AT EACH END OF JOIST MEMBERS AND SHALL BE THE SAME GAUGE AS THE JOISTS. TRACKS SHALL BE CONNECTED TO THE JOISTS WITH 2- #8 SCREWS (MINIMUM) ONE AT EACH FLANGE.
14. ALL JOISTS, BEAMS, GIRDERS, AND TRUSSES SHALL HAVE FULL HORIZONTAL BEARING OF THE MEMBER OVER SUPPORT UNLESS OTHERWISE SHOWN.
15. ROOF TRUSSES ARE TO BE ENGINEERED BY THE FABRICATOR AND ERECTED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. COLD-FORMED TRUSS CONSTRUCTION AND FABRICATION SHALL FOLLOW GUIDELINES SET FORTH BY THE COLD-FORMED STEEL ENGINEERS ASSOCIATION (LGSEA). SEE PROJECT SPECIFICATIONS FOR ADDITIONAL TRUSS INFORMATION.
16. ALL FABRICATED COLD-FORMED TRUSSES SHALL BE FURNISHED IN ACCORDANCE WITH DESIGNS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THE PROJECT IS LOCATED, USING THE DESIGN LOADS AND SPAN CONDITIONS INDICATED ON THE CONTRACT DOCUMENTS. NO DEVIATION OF TRUSS SHAPE, MEMBER SIZE, BEARING POINT LOCATION, OR SUPERIMPOSED LOADS, FROM THE CONTRACT DOCUMENTS SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE ARCHITECT AND/OR THE ENGINEER. SHOP DRAWINGS, INCLUDING AN OVERALL ERECTION PLAN INDICATING EACH TYPE OF TRUSS. TRUSS BEARING POINT LOCATIONS, REQUIRED LATERAL BRACING, EACH TRUSS MEMBERS SIZE AND STRESS AND CONNECTION DETAILS SHALL BE SUBMITTED FOR PRIOR APPROVAL TO THE GENERAL CONTRACTOR.
17. THE COLD-FORMED TRUSS SUPPLIER SHALL PROVIDE THE LGSEA PUBLICATION "FIELD INSTALLATION GUIDELINES" DATED OCTOBER 1999, WITH THE TRUSS ERECTION DRAWINGS FOR REFERENCE BY THE TRUSS INSTALLER.
18. THE GUIDELINES SET FORTH BY THE LGSEA "FIELD INSTALLATION GUIDELINES" SHALL BE FOLLOWED BY THE TRUSS INSTALLER.
19. PERMANENT BRACING OF COLD-FORMED TRUSSES SHALL BE INSTALLED BY THE TRUSS INSTALLER, WHERE INDICATED BY THE TRUSS ERECTION DRAWINGS. MINIMUM BRACING REQUIREMENTS FOR TOP CHORD, BOTTOM CHORD, AND WEB MEMBER PLANES SHALL BE IN ACCORDANCE WITH THE LGSEA "FIELD INSTALLATION GUIDELINES" UNLESS REQUIREMENTS NOTED ON THE PLAN ARE MORE STRICT.
20. ERECTION BRACING OF COLD-FORMED TRUSSES IS THE RESPONSIBILITY OF THE TRUSS INSTALLER. THE TRUSS INSTALLER SHALL PROVIDE TEMPORARY DIAGONAL, LATERAL, AND CROSS BRACING (PER LGSEA) UNTIL ROOF SHEATHING, CEILING AND PERMANENT BRACING CAN BE APPLIED AND SHEARWALLS COMPLETED.
21. ROOF TRUSSES SHALL BE FASTENED TO THE SUPPORT WALLS WITH SIMPSON "S/HS" TIES OR EQUAL (UON), AND SHALL BE FASTENED PER MANUFACTURER'S RECOMMENDATIONS.

STRUCTURAL LIGHT GAUGE FRAMING PANEL SHEATHING NOTES:

1. FASTENERS SHALL NOT BE LOCATED LESS THAN 3/8" IN FROM THE EDGE OF THE PANEL.
2. FASTENERS SHALL BE DRIVEN WITH THE HEAD OF THE FASTENER FLUSH WITH THE SURFACE OF THE SHEATHING.
3. FASTENERS SHALL BE OF SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD MEMBERS BY AT LEAST THREE EXPOSED THREAD.
4. FRAMING MEMBERS SHALL BE A MINIMUM 1-5/8" x 3-1/2" METAL STUD WITH A 3/8" RETURN LIP. TRACKS SHALL BE A MINIMUM 1-1/4" X 3-1/4".
5. ALL FRAMING MEMBERS SHALL BE A MINIMUM 18 GA (0.0428").
6. NO PANELS LESS THAN 1' - 4" WIDE SHALL BE USED.
7. PANEL EDGES SHALL BUTT ALONG THE CENTERLINE OF FRAMING MEMBERS.
8. ALL PANEL EDGES SHALL BE FULLY BLOCKED. WHERE HORIZONTAL STRAP BLOCKING IS USED, IT SHALL BE A MINIMUM 1-1/2" WIDE AND OF THE SAME MATERIAL AND THICKNESS AS THE TRACK AND STUDS.
9. STUDS SHALL DOUBLED (BACK TO BACK) AT THE ENDS OF ALL SHEARWALLS.
10. EACH WOOD SHEATHING PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD (PS1). APPLICATION AND NAILING OF PLYWOOD SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION AND TABLE 2304.10.1 "FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE UNLESS OTHER REQUIREMENTS NOTED ON THE PLAN ARE STRICTER.
11. PANEL WALL SHEATHING SHALL BE 7/16" APA EXPOSURE 1, RATED WOOD SHEATHING WITH 32/16 SPAN RATING (UON). PANELS MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
12. GYPSUM SHEATHING SHALL BE 5/8" TYPE 'X' GYPSUM WALL BOARD (EXTERIOR GRADE) (UON). PANELS SHALL BE APPLIED PERPENDICULAR TO STUDS. END JOINTS OF ADJACENT COURSES OF GYPSUM BOARD SHALL NOT OCCUR OVER THE SAME STUD.
13. BACK ALL VERTICAL SHEATHING PANEL EDGES WITH 1-5/8" WIDE STUDS (MINIMUM).
14. FRAMING MEMBERS SHALL BE SPACED NO FURTHER THAN 1' - 4" OC.
15. OFFSET PANEL JOINTS ON EACH SIDE OF WALL MINIMUM ONE STUD BAY.
16. FASTENERS FOR PANEL WALL SHEATHING SHALL BE A MINIMUM #8 FLAT HEAD SCREWS (SELF-TAPPING) WITH MINIMUM HEAD DIAMETER OF 0.292" IN ACCORDANCE WITH SAE J78. SPACE SCREWS AT 1' - 0" OC ALONG INTERMEDIATE FRAMING MEMBERS (FIELD OF PANEL) AND AT 6" OC AT ALL PANEL EDGES (UON).
17. FASTENERS FOR GYPSUM SHEATHING SHALL BE A MINIMUM #6 DRYWALL SCREWS IN ACCORDANCE WITH ASTM C954. SPACE SCREWS AT 1' OC ALONG INTERMEDIATE FRAMING MEMBERS (FIELD OF PANEL) AND AT 8" OC AT ALL PANEL EDGES.
18. PANEL ROOF SHEATHING SHALL BE 1/2" APA EXPOSURE 1, RATED SHEATHING WITH 32/16 PANEL SPAN RATING (UON).
19. PANEL FLOOR SHEATHING SHALL BE 3/4" APA EXPOSURE 1, RATED PLYWOOD WITH 48/24 PANEL SPAN RATING (UON).
20. ALL PANEL EDGES SHALL BE TONGUE AND GROOVE EDGES, OR HAVE PANEL EDGE CLIPS (MIDWAY BETWEEN EACH SUPPORT), OR HAVE 2X LUMBER BLOCKING.
21. PANEL SHEATHING SHALL BE ORIENTED WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTS AND SHALL BE CONTINUOUS OVER 2 OR MORE SUPPORTS.
22. FASTENERS FOR PANEL ROOF AND FLOOR SHEATHING SHALL BE #8 FLAT HEAD SCREWS (BE SELF-TAPPING) WITH MINIMUM HEAD DIAMETER OF 0.292" IN ACCORDANCE WITH SAE J78. SPACE SCREWS AT 1'-0" OC ALONG INTERMEDIATE FRAMING MEMBERS (FIELD OF PANEL) AND AT 6" OC AT ALL PANEL EDGES (UON).

DEFERRED STRUCTURAL SUBMITTALS:

1. THE DESIGN AND DOCUMENTATION OF THE CERTAIN STRUCTURAL COMPONENTS MAY BE DEFERRED UNTIL AFTER THE BUILDING PERMIT HAS BEEN ISSUED.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS THAT ARE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED FOR THE FOLLOWING DEFERRED SUBMITTALS:
   ARCHITECTURAL PRECAST CONCRETE

   STRUCTURAL STEEL CONNECTIONS
   STEEL STAIRS, HAND RAILS AND GUARD RAILS
   EXTERIOR LIGHT-GAUGE FRAMING
   LIGHT GAUGE TRUSS SYSTEMS
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION FOR THE FOLLOWING DEFERRED SUBMITTALS:
   STRUCTURAL STEEL FRAMING
   STEEL JOIST AND DECKING
   CURTAIN WALL SYSTEMS
   OPERABLE PARTITIONS

ABBREVIATIONS AND SYMBOLS:

AA	ADHESIVE ANCHOR ROD
AR	ANCHOR ROD
APA	ASSOCIATION
ARCH	ARCHITECT/ARCHITECTURAL
BB	BOND BEAM
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
B.O.	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
CL	CENTER LINE
CJ	CONTROL JOINT
CCJ	CONSTRUCTION CONTROL JOINT
CLR	CLEAR/CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CSA	CONCRETE SCREW ANCHOR
DBL	DOUBLE
DET	DETAIL
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DT	DRAIN TILE
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EQ	EQUAL
EW	EACH WAY
(E)	EXISTING
EXC	EXCAVATION
EXP	EXPANSION
FD	FLOOR DRAIN
FDN	FOUNDATION
FG	FINISH GRADE
FTG	FOOTING
FT	FOOT/FEET
GALV	GALVANIZE
GA	GAUGE
GC	GENERAL CONTRACTOR
GT	GIRDER TRUSS
HC	HOLLOW CORE
HORIZ/HOR	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
K	KIPS
KLF	KIPS PER LINEAR FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LL	LIVE LOAD
LB	LEDGER BEAM
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MO	MASONRY OPENING
N	NORTH
NTS	NOT TO SCALE
NS	NON-SHRINK
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHEAD
OPNG	OPENING
ORIG	ORIGINAL
PAF	POWDER ACTUATED FASTENER
PART	PARTITION
PC	PRECAST CONCRETE
PLF	POUND PER LINEAR FOOT
PL	PLATE
PWD	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RAD	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING
REM	REMOVE
REQD	REQUIRED
RFG	ROOFING
RO	ROOF OPENING
SA	SCREW ANCHOR
SB	SOIL BORING
SCHED	SCHEDULE
SD	SEE DETAIL
SDL	SUPERIMPOSED DEAD LOAD
SLL	SUPERIMPOSED LIVE LOAD
SER/SEOR	STRUCTURAL ENGINEER OF RECORD
SHT	SHEET
SIM	SIMILAR
SQ	SQUARE
SJ	STEEL JOIST
SL	SNOW LOAD
SPA	SPACE/SPACING
SPC	SPECIAL
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
TEMP	TEMPORARY
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
THK	THICK/THICKENED
T.O.	TOP OF
TRANS	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VER/(V)	VERIFY
VERT	VERTICAL
WF	WIDE FLANGE
WD	WOOD
WL	WIND LOAD
W/	WITH
W/O	WITH OUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
@	AT
+/-	PLUS OR MINUS

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ERIC A. GREIFF PE-4983 DATE: 21 OCT 2025 NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE: 10/21/25
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: 24146
SHEET: S002
GENERAL NOTES

10/21/2025 10:53:51 AM

PIER SCHEDULE

MARK	"B"	"N"	REINFORCING		TOP OF PIER	DETAIL	REMARKS
			VERT REINF/DWL	TIES			
P1	2'-0"	2'-0"	5 - #6	#4 @ 1'-0" OC	98'-4"		
P2	2'-0"	2'-0"	5 - #6	#4 @ 1'-0" OC	98'-4"		
P3	2'-2"	2'-0"	5 - #6	#4 @ 1'-0" OC	98'-4"		
P4	2'-0"	1'-4"	4 - #6	#4 @ 1'-0" OC	98'-4"		

FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING		REMARKS
			TRANS	LONG	
FG1.7	1'-8"	1'-0"	#4 @ 4'-0" OC	2 - #5	@ STOOPS
FG2.0	2'-0"	1'-0"	#4 @ 4'-0" OC	2 - #5	
F3.0	3'-0" SQ	1'-0"	3 - #5	3 - #5	
F3.0X5.0	3'-0"X5'-0"	SEE DETAIL	5 - #5	4 - #5	SD
F3.0X8.0	3'-0"X8'-0"	1'-6"			
F4.0X5.0	F4'-0"X5'-10"	1'-0"	6 - #5	5 - #6	

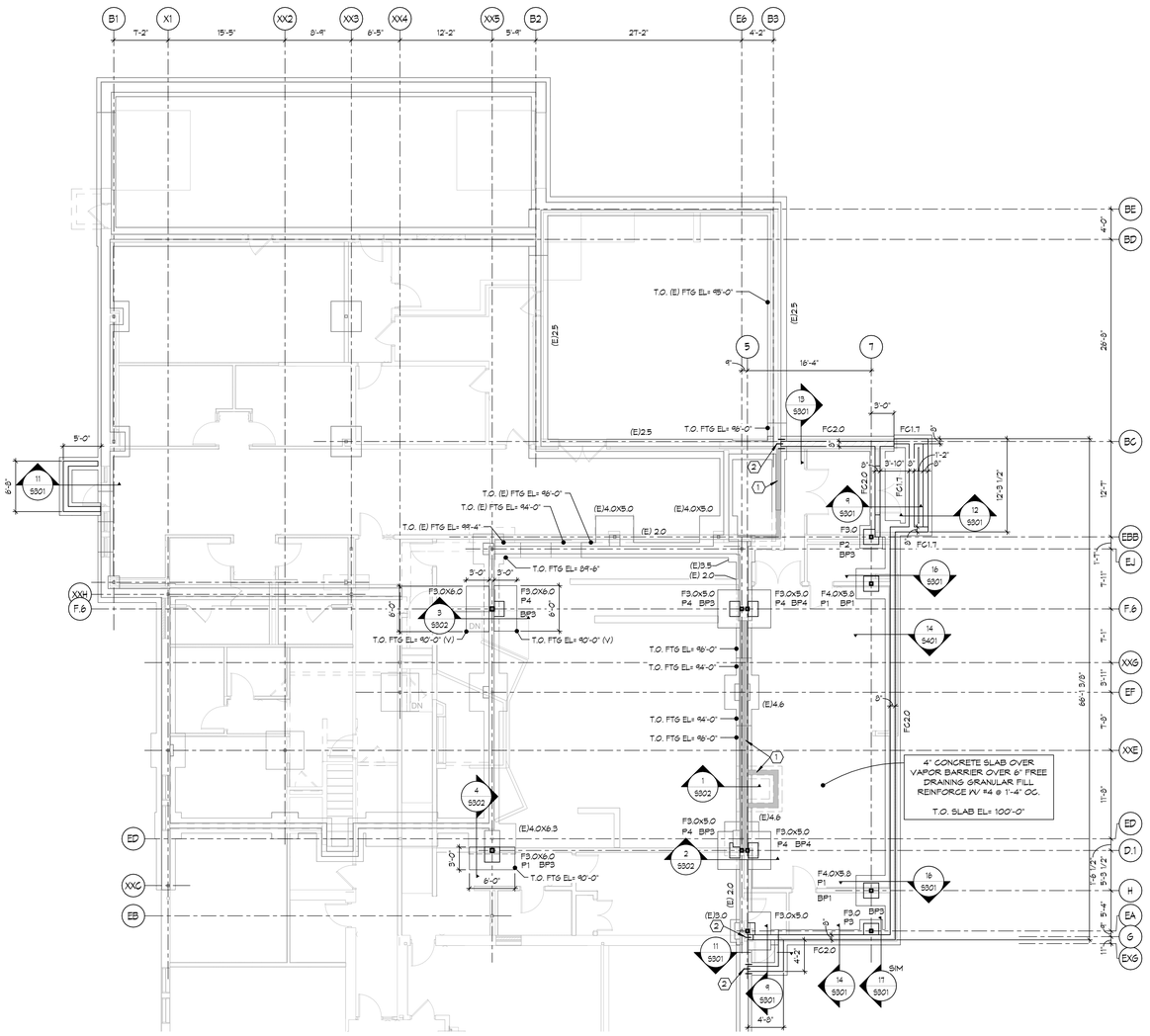
SHEET NOTES:

1. VERIFY ALL DIMENSIONS W/ ARCHITECTURAL PLANS. *DO NOT* SCALE DRAWINGS.
2. SEE SHEET S001 & S002 FOR GENERAL STRUCTURAL NOTES.
3. (S) = STEPPED FOOTING SD 1/S301
4. COORDINATE LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THROUGH ALL FOUNDATION SLABS.
5. ALL STOOPS SHALL BE CENTERED ON DOOR OPENINGS (UON). VERIFY DOOR OPENING LOCATIONS & DIMENSIONS W/ ARCHITECTURAL PLANS.
6. FX OR FGX - FOOTING MARK. SEE FOOTING SCHEDULE SHEET S101
7. PX - PIER MARK. SEE PIER SCHEDULE SHEET S101
8. SEE GEOTECHNICAL REPORT FOR ALL FOUNDATION RECOMMENDATIONS.
9. VERIFY SLOPE, GRADE, ELEVATION, ORIENTATION OF BUILDING & EXTERIOR CONC W/ CIVIL PLANS.

KEY NOTES:

(1) DEMO TOP OF EXISTING STOOP & FOUNDATION WALL AS NECESSARY TO INSTALL NEW CONCRETE FLOOR SLAB @ NEW WALL OPENING.

(2) #6 DWL @ 1'-0" OC, DRILL & EPOXY INTO (E), 6" MIN EMBED.



FIRST FLOOR PLAN/FOOTING & FOUNDATION PLAN
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
ERIC A. GREIFF
PE-4983
DATE: 21 OCT 2025
NORTH DAKOTA

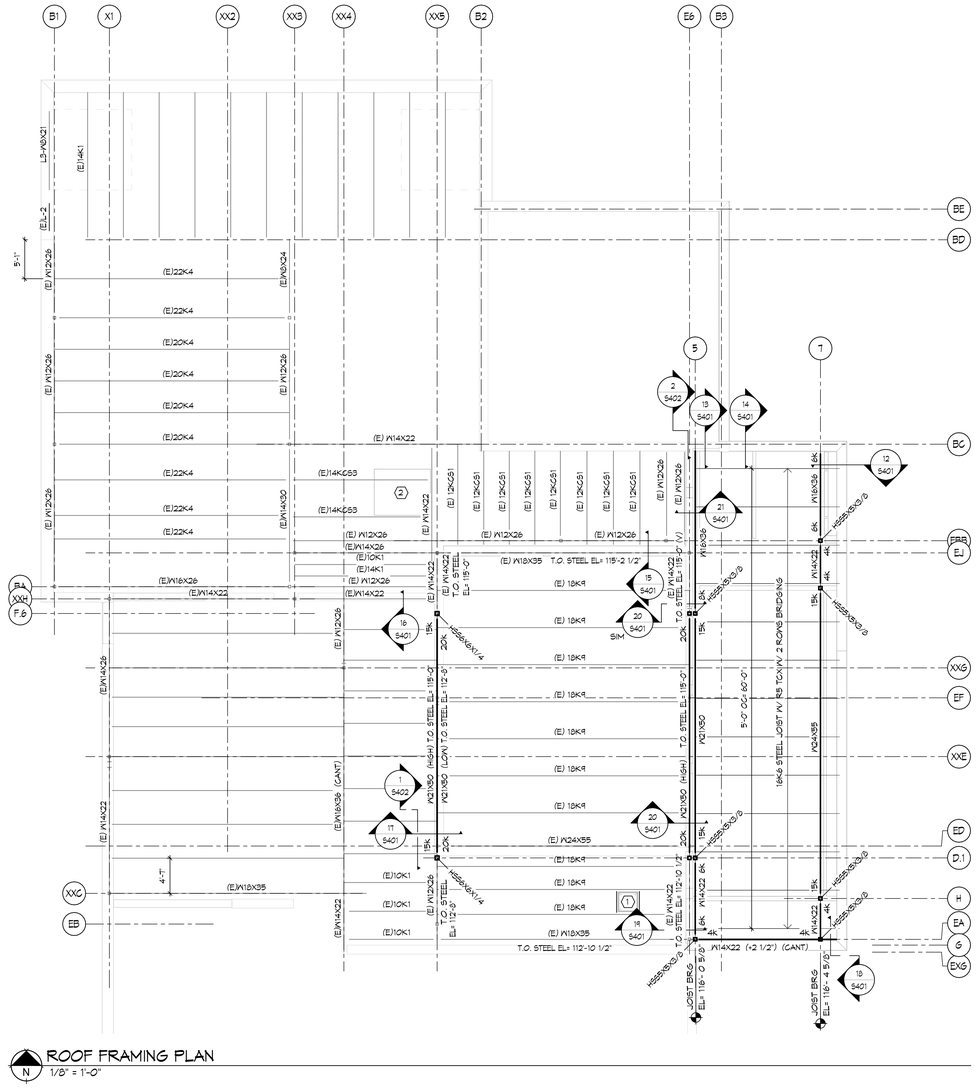
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

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MANNING, ND

DATE
10/21/25
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
S102
FIRST FLOOR FRAMING PLAN

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ROOF FRAMING PLAN
1/8" = 1'-0"

SHEET NOTES:

1. SEE SHEET S001 & S002 FOR GENERAL STRUCTURAL NOTES.
2. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS, WHICH SHALL BE GOVERNING.
3. ROOF DECKING SHALL BE 1 1/2", TYPE 'B', 20 GA STEEL DECKING WITH A 36/5 FASTENING PATTERN & SIDELAP FASTENERS @ 2'-0" OC (U.O.N), SD 5 /S401 (PROVIDE TYPE 'BA' ACOUSTICAL DECKING WHERE NOTED ON PLAN).
4. ALL STEEL JOISTS SHALL BE DESIGNED FOR A MINIMUM 12 psf UPLIFT (U.O.N)
5. EXTERIOR LIGHT GAUGE FRAMING SHALL BE 6", 16 GA (600S162-54) METAL STUDS SPACED @ 1'-4" OC MAX

   ALL LIGHT GAUGE FRAMING AND CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE SUPPLIER FOR FORCES NOTED ON PLANS.
6. REINFORCE ALL CMU WALLS WITH #5 VERTICALS SPACED @ 24" OC (U.O.N) SD 20 /S501 FOR REINFORCING.
7. VERIFY SIZE, WEIGHT AND LOCATION OF ALL ROOF TOP UNITS AND OPENINGS WITH MECHANICAL DRAWINGS.

KEY NOTES:

(1) SKYLIGHT, VERIFY LOCATION W/ ARCH. FOR REINFORCEMENT OF OPENING, SD 11 /S401

(2) NEW RTU TO REPLACE EXIST
DESIGN LOAD= 3000 lbs

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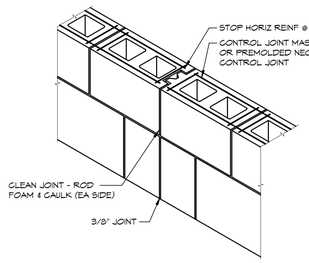
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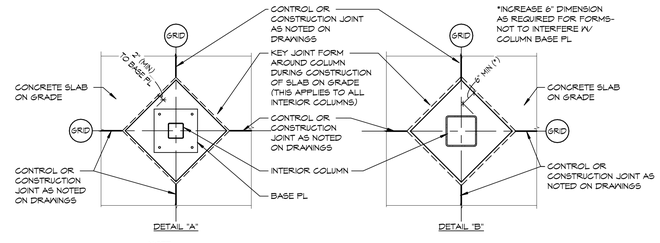
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COURTHOUSE REMODEL
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SHEET
S201
ROOF FRAMING PLAN

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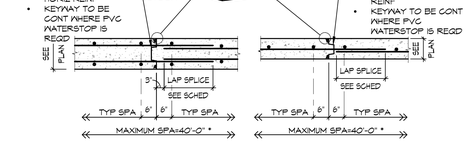


19 / S301 — MASONRY WALL CONTROL JOINT
1/2" = 1'-0"



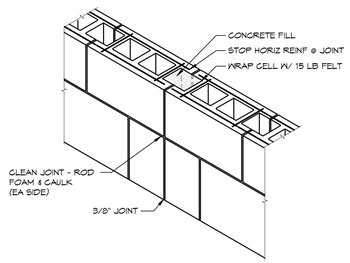
NOTE:
1. USE DETAIL 'A' IF SLAB ON GRADE IS POURED PRIOR TO STEEL ERECTION
2. USE DETAIL 'B' IF SLAB ON GRADE IS POURED AFTER TO STEEL ERECTION

10 / S301 — INTERIOR COLUMN ISOLATION JOINT
1/2" = 1'-0"

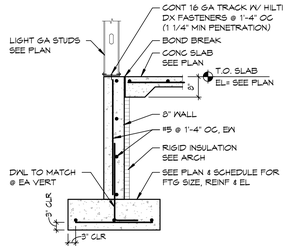


NOTES:
* DIMENSIONS MAY BE INCREASED TO 120'-0" IF WALL IS BACKFILLED ON BOTH SIDES FOR FULL HEIGHT.
* DIMENSIONS MAY BE INCREASED TO 80'-0" IF INTERIOR SURFACE IS NOT EXPOSED.

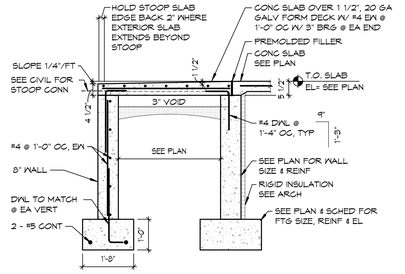
5 / S301 — WALL CONSTRUCTION JOINT - (WCJ)
1/2" = 1'-0"



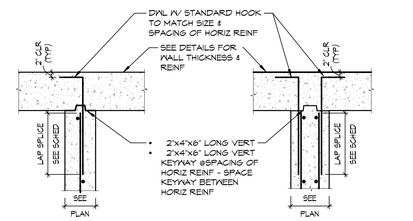
18 / S301 — MASONRY WALL CONTROL JOINT
1/2" = 1'-0"



14 / S301 — FOUNDATION WALL DETAIL
1/2" = 1'-0"



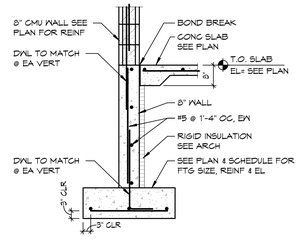
9 / S301 — DOOR STOOP
1/2" = 1'-0"



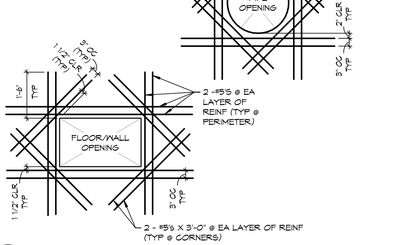
NOTE:
- CONSTRUCTION JOINT SHOWN MAY BE OMITTED @CONTRACTOR'S OPTION.

4 / S301 — WALL INTERSECTION REINFORCEMENT
1/2" = 1'-0"

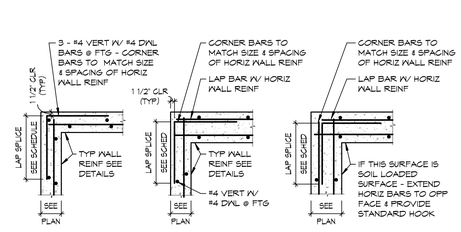
17 / S301 — EXTERIOR COLUMN PIER DETAIL
1/2" = 1'-0"



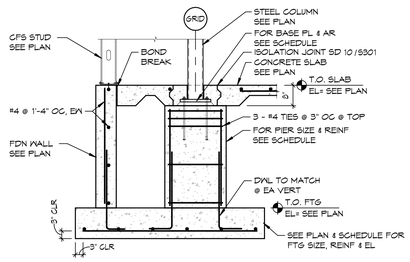
13 / S301 — FOUNDATION WALL DETAIL
1/2" = 1'-0"



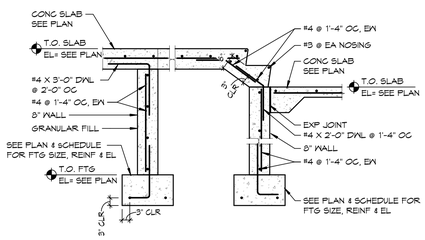
8 / S301 — ADDITIONAL REINFORCING @ OPENING
1/2" = 1'-0"



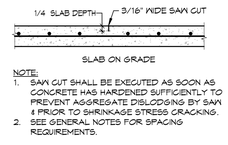
3 / S301 — CORNER BAR REINFORCEMENT
1/2" = 1'-0"



16 / S301 — EXTERIOR COLUMN PIER DETAIL
1/2" = 1'-0"

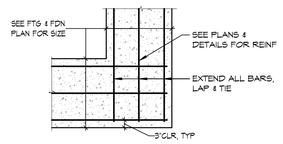


12 / S301 — SECTION @ STAIR
1/2" = 1'-0"

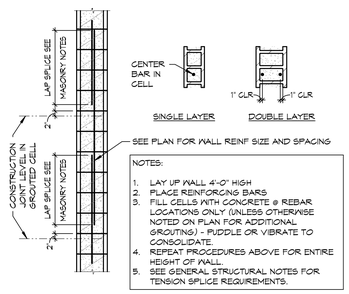


NOTE:
1. SAW CUT SHALL BE EXECUTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE DISLODGING BY SAW & PRIOR TO SHRINKAGE STRESS CRACKING.
2. SEE GENERAL NOTES FOR SPACING REQUIREMENTS.

7 / S301 — FLOOR CONTROL JOINT REINFORCEMENT - (CJ)
1/2" = 1'-0"

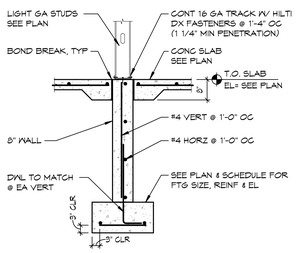


2 / S301 — FOOTING CORNER REINFORCEMENT
1/2" = 1'-0"

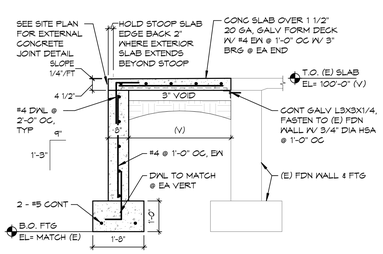


NOTES:
1. LAY UP WALL 4'-0" HIGH
2. PLACE REINFORCING BARS
3. FILL CELLS WITH CONCRETE @ REBAR LOCATIONS ONLY (UNLESS OTHERWISE NOTED ON PLAN FOR ADDITIONAL GROUTING) - PUDDLE OR VIBRATE TO CONSOLIDATE.
4. REPEAT PROCEDURES ABOVE FOR ENTIRE HEIGHT OF WALL.
5. SEE GENERAL STRUCTURAL NOTES FOR TENSION SPLICE REQUIREMENTS.

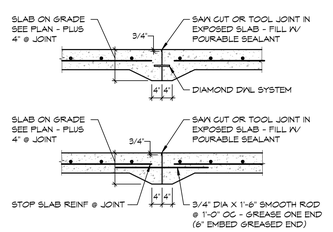
20 / S301 — MASONRY WALL REINFORCEMENT
1/2" = 1'-0"



15 / S301 — INTERIOR FOUNDATION WALL DETAIL
1/2" = 1'-0"

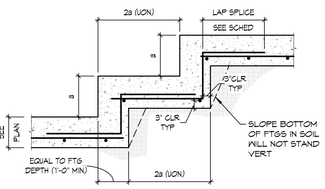


11 / S301 — (E) DOOR STOOP DETAIL
1/2" = 1'-0"



6 / S301 — FLOOR CONSTRUCTION JOINT REINF - (CCJ)
1/2" = 1'-0"

STEPPED FOOTING NOTES:
1. SEE PLAN FOR FOOTING SIZE AND REINFORCING
2. SLOPED OR STEPPED FOOTINGS SHALL BE CAST AS A UNIT
3. STEPPED FOOTING LINES SHOWN ON PLAN ARE @ BOTTOM OF FOOTING



1 / S301 — STEPPED FOOTING REINFORCEMENT
1/2" = 1'-0"

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DATE: 21 OCT 2025
NORTH DAKOTA

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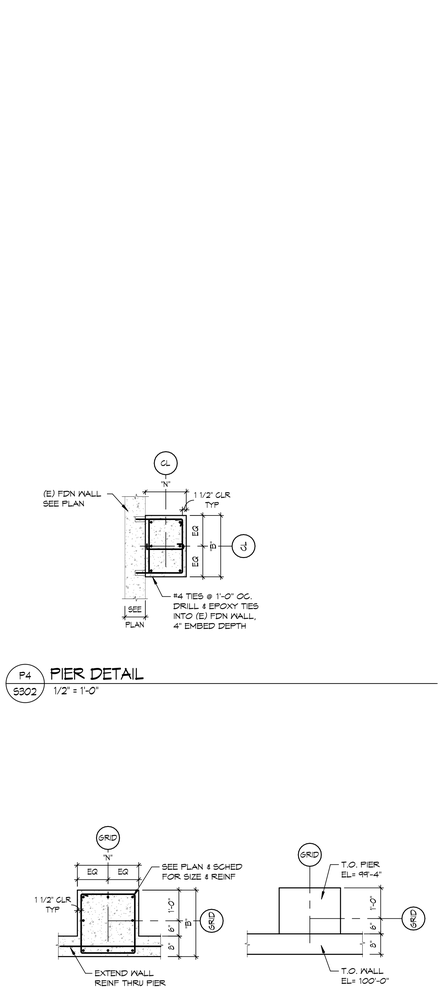
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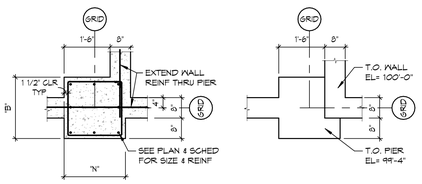
DATE 10/21/25
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET S301
FOUNDATION DETAILS

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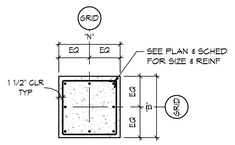
P4 5302 PIER DETAIL
1/2" = 1'-0"



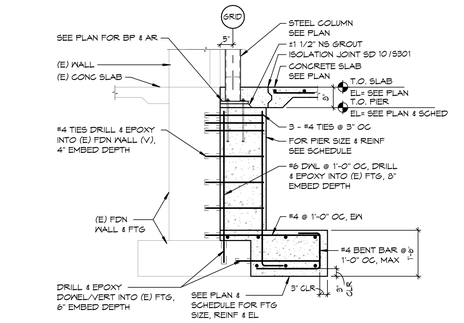
P3 5302 PIER DETAIL
1/2" = 1'-0"



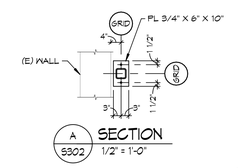
P2 5302 PIER DETAIL
1/2" = 1'-0"



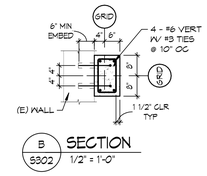
P1 5302 PIER DETAIL
1/2" = 1'-0"



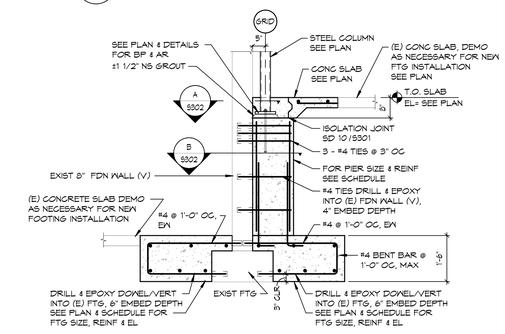
4 5302 COLUMN BASE @ (E) WALL DETAIL
1/2" = 1'-0"



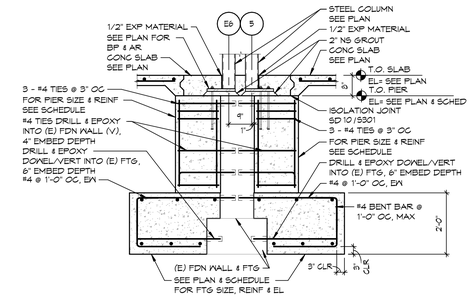
A 5302 SECTION
1/2" = 1'-0"



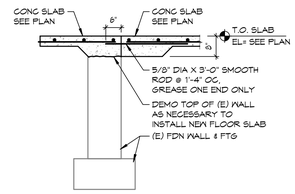
B 5302 SECTION
1/2" = 1'-0"



3 5302 PIER @ (E) FDN WALL DETAIL
1/2" = 1'-0"



2 5302 COLUMN BASE @ (E) WALL DETAIL
1/2" = 1'-0"



1 5302 SLAB @ (E) WALL DETAIL
1/2" = 1'-0"

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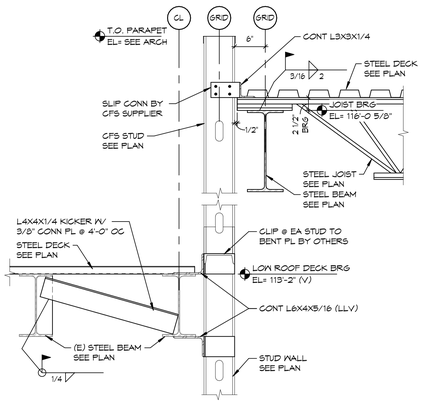
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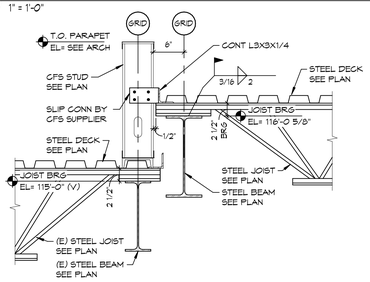
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S302
FOUNDATION DETAILS

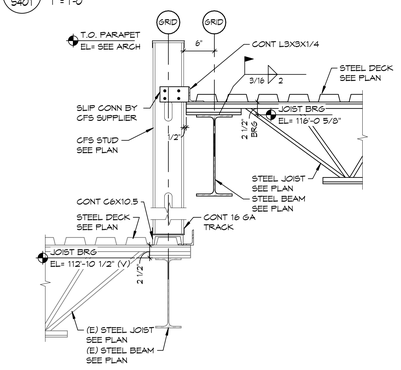
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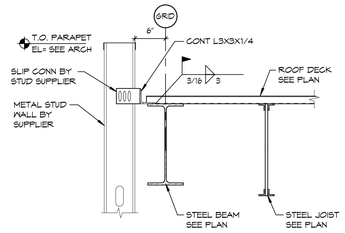
21 S401 JOIST BEARING @ LOW TO HIGH ROOF
1" = 1'-0"



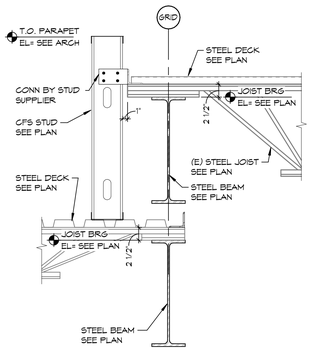
20 S401 JOIST BEARING @ LOW TO HIGH ROOF
1" = 1'-0"



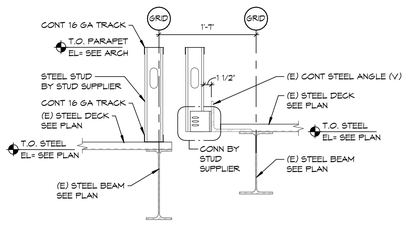
19 S401 JOIST BEARING @ LOW TO HIGH ROOF
1" = 1'-0"



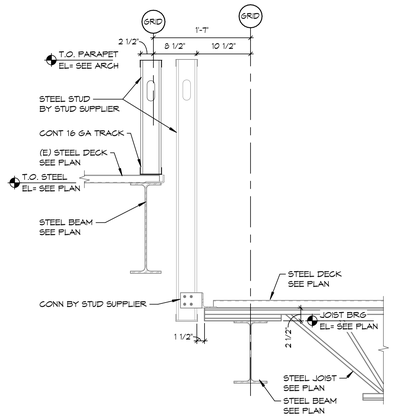
18 S401 JOIST BEARING DETAIL
1" = 1'-0"



17 S401 ROOF EXPANSION JOIST @ GRID EBB
1" = 1'-0"

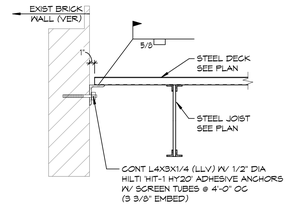


16 S401 ROOF CURB EXPANSION JOIST
1" = 1'-0"

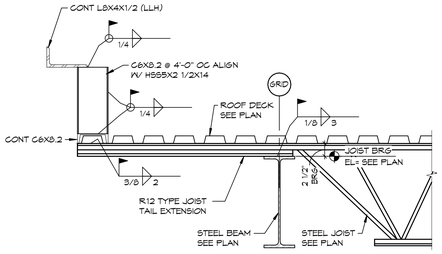


15 S401 ROOF EXPANSION JOIST @ GRID EBB
1" = 1'-0"

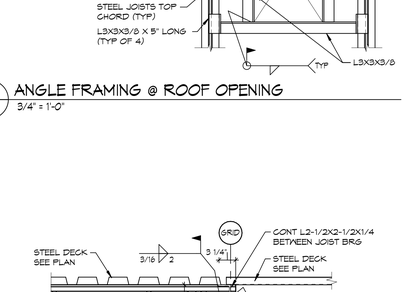
14 S401 DECK BEARING @ CMU
1" = 1'-0"



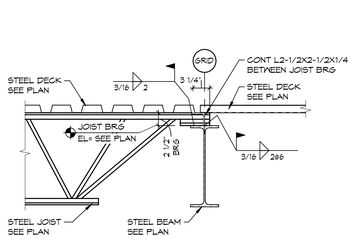
13 S401 DECK BEARING @ EXIST WALL
1" = 1'-0"



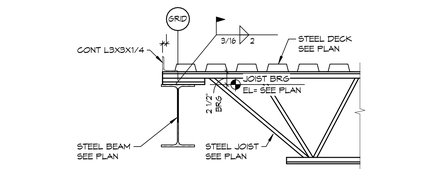
12 S401 JOIST BEARING DETAIL
1" = 1'-0"



11 S401 ANGLE FRAMING @ ROOF OPENING
3/4" = 1'-0"



10 S401 JOIST BEARING @ STEEL BEAM
1" = 1'-0"

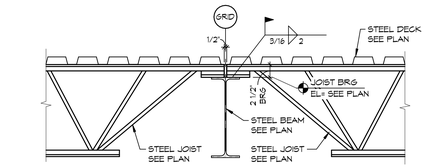


8 S401 JOIST BEARING @ STEEL BEAM
1" = 1'-0"

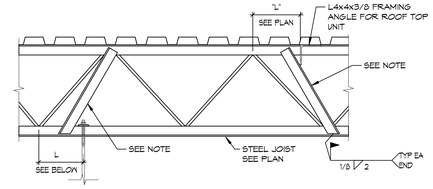
NOTES:

1. WHEN SPAN EXCEEDS 5'-0", SIDE LAPS SHALL BE FASTENED AT MID SPAN OR 3'-0" INTERVALS (WHICHEVER IS SMALLER) W/#10 METAL SCREWS (UON).
2. LAP DECK ENDS 2" MINIMUM AND FASTEN TO SUPPORT @ 6" OC.
3. SEE PLAN FOR DECK FASTENING PATTERN, USE A 36/4 FASTENING PATTERN (MIN) (UON).
4. SIDE LAP FASTENERS SHALL BE #10 METAL SCREWS (UON) - SEE PLAN FOR REQUIREMENTS.

5 S401 ROOF DECK FASTENING
1" = 1'-0"

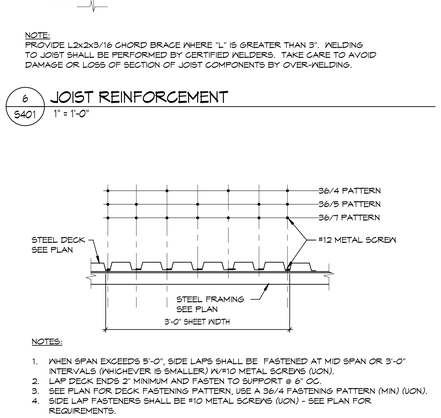


7 S401 JOIST BEARING @ STEEL BEAM
1" = 1'-0"



NOTE:
PROVIDE L2x2x3/16 CHORD BRACE WHERE "L" IS GREATER THAN 3". WELDING TO JOIST SHALL BE PERFORMED BY CERTIFIED WELDERS. TAKE CARE TO AVOID DAMAGE OR LOSS OF SECTION OF JOIST COMPONENTS BY OVER-WELDING.

6 S401 JOIST REINFORCEMENT
1" = 1'-0"



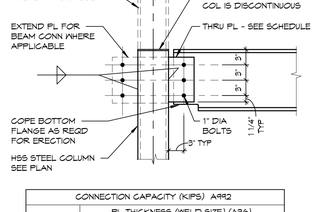
CONNECTION CAPACITY (KIPS) A992				
# OF ROWS	BEAM WEB THICKNESS			
	3/16"*	1/4"	1/8"	3/8"	7/16"
2	24	33	37	37	37
3	37	49	55	55	55
4	—	64	74	74	74
5	—	79	93	93	93
6	—	—	—	111	111
7	—	—	—	130	130
8	—	—	—	—	148
9	—	—	—	—	167

* 3/16" FILLET WELD

NOTE:
USE NUMBER OF ROWS OF BOLTS REQD, BASED ON REACTIONS LISTED ON PLANS. USE MINIMUM ROWS AS LISTED.

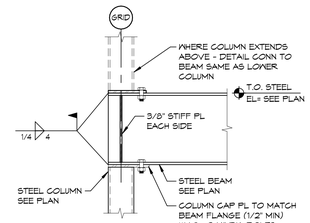
BEAM SIZE	MIN ROWS OF BOLTS
W 8, 10	2
W 12, 14, 16	3
W 18, 21	4
W 24, 27, 30	5

4 S401 TYPICAL BEAM CONNECTION
1" = 1'-0"



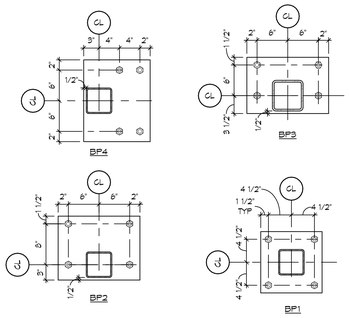
CONNECTION CAPACITY (KIPS) A992				
# OF ROWS	PL THICKNESS (WELD SIZE) (A36)			
	1/4" (3/16")	5/16" (1/4")	3/8" (5/16")	7/16" (3/8")
2	14	14	14	14
3	25	28	28	28
4	—	42	46	46
5	—	—	63	64
6	—	—	75	82
7	—	—	88	100

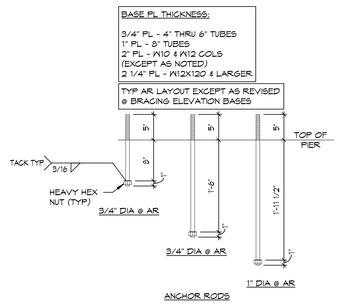
3 S401 STEEL BEAM CONNECTION @ HSS COL
1" = 1'-0"



NOTE:
WHERE BEAM FLANGE WIDTH DOES NOT ALLOW FOR DETAILING AS SHOWN, PROVIDE PL'S AS SHOWN IN ALTERNATE FLANGE CONN

2 S401 STEEL BEAM END DETAIL
1" = 1'-0"





1 S401 BASE PLATE & ANCHOR RODS
1" = 1'-0"

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www.heyerengineering.com
ERIC A. GREIFF PE-4983 DATE: 21 OCT 2025 NORTH DAKOTA

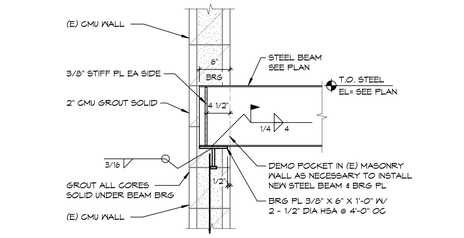
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

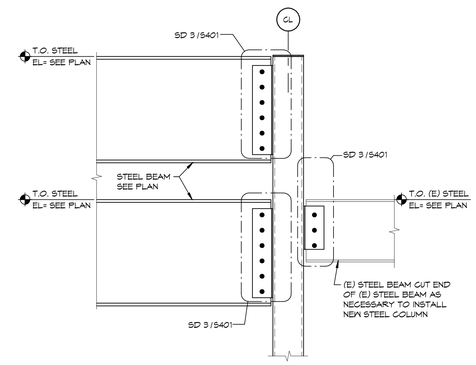
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/25
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET S401
FRAMING DETAILS

10/21/2025 10:53:56 AM



2 S402 BRG BEARING DETAIL
1" = 1'-0"



1 S402 (E) BEAM TO COLUMN CONN
1" = 1'-0"

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EIN:0087 2926 43A2 FM

REGISTERED PROFESSIONAL ENGINEER
ERIC A. GREIFF
PE-4983
DATE: 21 OCT 2025
NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/25

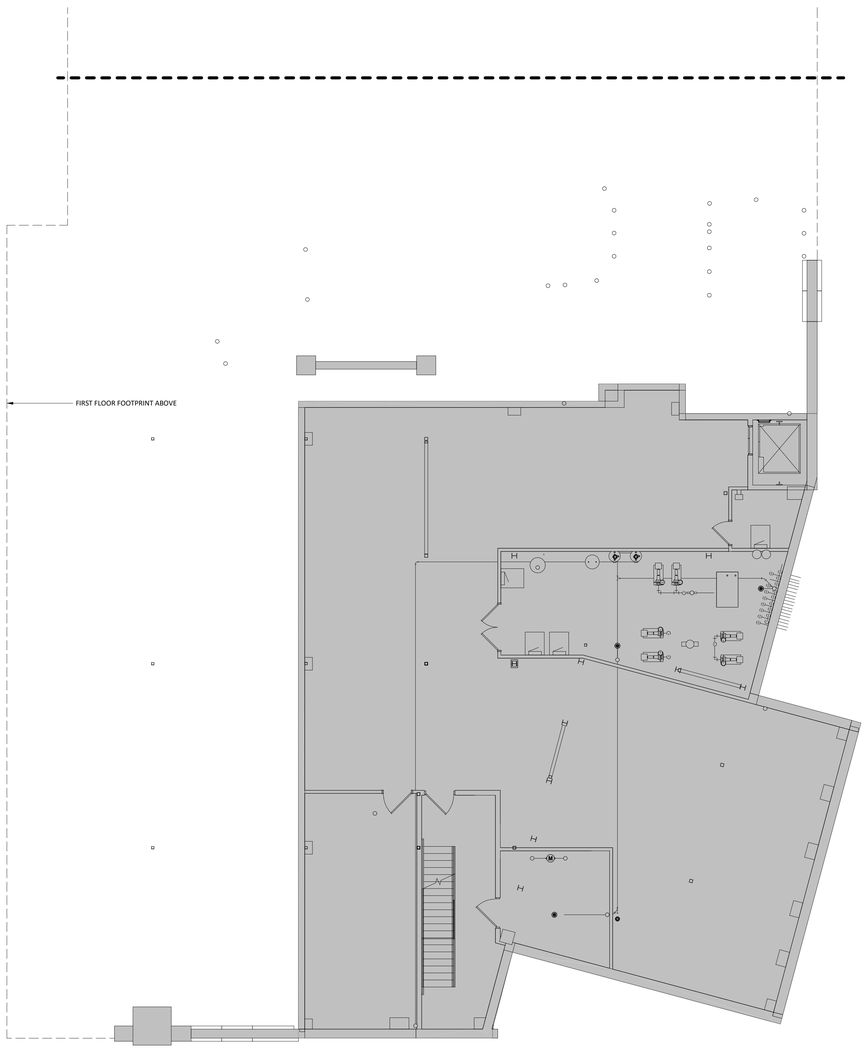
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PROJECT
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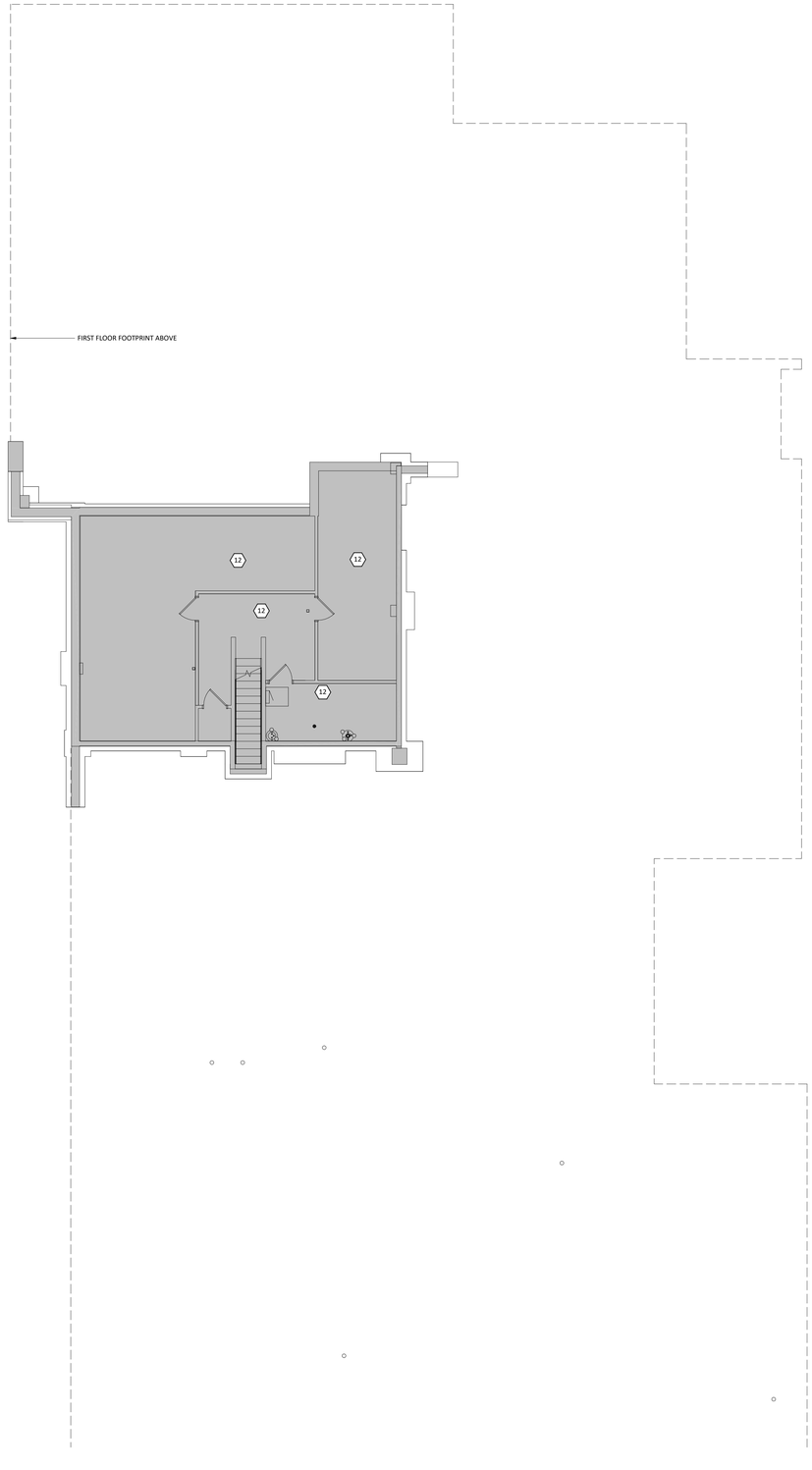
FRAMING DETAILS

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6A / A100 DEMO BASEMENT FLOOR PLAN - AREA B

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



4A / A100 DEMO BASEMENT FLOOR PLAN - AREA A

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

GENERAL NOTES - DEMOLITION

A. THE OWNER'S NORMAL OPERATIONS WILL BE CONTINUED DURING DEMOLITION. DEMOLITION CONTRACTOR SHALL NOT INTERFERE WITH THESE OPERATIONS IN ANY WAY WITHOUT THE OWNER'S EXPRESSED CONSENT.
B. OWNER WILL OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE DEMOLITION. CONDUCT SELECTIVE DEMOLITION WORK IN MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF OWNER'S NORMAL OPERATIONS. REFER TO SPECIFICATIONS FOR MINIMUM ADVANCE NOTICE TO OWNER.
C. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
D. PROVIDE FIRE RESISTANT CONSTRUCTION BARRIERS WHERE REQ'D TO PROTECT EXISTING CONSTRUCTION AND OWNER'S OPERATIONS.
E. PROTECT FROM DAMAGE EXISTING FINISH WORK THAT IS TO REMAIN IN PLACE AND BECOME EXPOSED DURING DEMOLITION OPERATIONS.
F. PROTECT FLOORS WITH SUITABLE COVERING WHEN NECESSARY.
G. COVER AND PROTECT FURNITURE, EQUIPMENT, AND FIXTURES FROM SOILAGE OR DAMAGE WHEN DEMOLITION WORK IS PERFORMED IN AREAS WHERE SUCH ITEMS HAVE NOT BEEN REMOVED.
H. PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL FLOOR PENETRATIONS. UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC. AND ANY WALLS THAT CONTAIN LIFE SAFETY VERTICAL RISERS THAT MUST REMAIN IN OPERATION DURING THE DEMOLITION WORK.
I. CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS AND FLOOR ELEVATIONS IN FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BEFORE THE START OF WORK.
J. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED,INVESTIGATE AND MEASURE BOTH NATURE AND EXTENT OF THE CONFLICT AND NOTIFY OWNER'S REPRESENTATIVE.
K. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.
L. WHERE DEMOLITION IS REQ'D BEYOND THE LIMITS OF THE CONTRACT TO ROUTE NEW DUCTWORK, PIPING, CONDUITS ETC., RATED WALLS AND SMOKE BARRIERS SHALL BE PATCHED BY CONTRACTOR REQUIRING PENETRATIONS, ALL FINISHES DAMAGED BY THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
M. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQ'D. RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN TO THE CONDITION EXISTING PRIOR TO START OF OPERATIONS. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION.
N. PROVIDE SHORING, BRACING AND ANY OTHER MEANS REQ'D TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY AND STABILITY OF ALL EXISTING AND NEW CONSTRUCTION.
O. WHEN ROOFING, GLAZING, FLASHING, COPING OR PORTIONS OF EXTERIOR WALLS ARE REMOVED OR OPENED, SUITABLE WEATHER PROTECTION SHALL BE PROVIDED AND MAINTAINED FOR THE DURATION OF WORK.
P. REMOVAL OF ITEMS NOTED INCLUDES REMOVAL OF ANCHORS, ADHESIVES, HARDWARE, CONDUIT, WIRE, PIPING, ETC. FOR A COMPLETE REMOVAL OF THE ITEMS OR SYSTEMS.
Q. WHEREVER WATER CLOSETS, FLOOR SINKS OR OTHER EQUIPMENT AND RELATED PIPING ARE TO BE REMOVED, PATCH FLOOR SLAB W/ CONCRETE AS REQUIRED.
R. ALL CONCRETE FLOOR SLABS NOTED TO BE REMOVED SHALL BE SAWCUT TO PROVIDE A NEAT JOINT.
S. SEE MECHANICAL, CIVIL, AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL SCOPE OF DEMOLITION WORK.
T. SALVAGE ALL EXISTING REMOVED BRICK FOR PATCHING AND REFINISH WORK AS REQ'D - TYPICAL.
U. DEMOLITION OF ANY EXISTING CONSTRUCTION SHALL INCLUDE WHAT IS NECESSARY AND REQ'D TO ACCOMMODATE THE REQUIREMENTS OF NEW CONSTRUCTION. REFER TO THE APPROPRIATE DRAWINGS AS TO THE EXTENT OF NEW CONSTRUCTION TO REMAIN.
V. SURFACES SHALL BE CLEANED AND PREPPED WITHIN THE NEW MATERIALS GUIDELINES OF INSTALLATION OF THEIR PRODUCT IN EXISTING CONSTRUCTION.
W. ALL DEMOLITION SHALL COMPLY WITH APPLICABLE LOCAL CODES AND STATE CODES AND ORDINANCES.
X. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
Y. SALVAGE ALL EXISTING REMOVED CORNER GUARDS FOR REUSE IN NEW PLANS.

DEMOLITION LEGEND

- EXISTING WALL/OBJECT TO REMAIN
- EXISTING WALL/OBJECT TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- FOR ENTIRE FLOOR IN SHADED AREA - COMPLETELY REMOVE ALL EXISTING FLOOR FINISHES (AT ROOMS AND/OR AREAS TO REMAIN AND RECEIVE NEW FLOOR FINISHES, LEAVE SUB-FLOOR CLEAN AND PREPARED FOR NEW WORK
- COMPLETELY REMOVE ALL EXISTING CEILINGS U.N.O. (EITHER LAY-IN, PLASTER, OR GYP BD INCLUDING ALL CURTAIN, CEILING MOUNTED EQUIPMENT, SUPPORTS, TRACKS, ETC.
- XX - DEMOLITION KEYNOTE

ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS.THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE AND DEMOLITION/REMOVAL WORK INDICATED ON DEMOLITION PLANS (TYPICAL).

KEYNOTES - DEMOLITION

NO	NOTE	REV.
1	REMOVE EXISTING FINISHES AT FLOORS, WALLS, AND CEILINGS. PREPARE SURFACES FOR NEW FINISHES AS INDICATED	
2	REMOVE AND DISCARD EXISTING DOOR, FRAME, JAMB & THRESHOLDS. SHOWN DASHED, TYP.	
3	REMOVE AND DISCARD EXISTING WALLS WHERE INDICATED - SHOWN DASHED, TYP.	
4	REMOVE AND DISCARD ALL EXISTING TOILET ROOM PLUMBING FIXTURES, HARDWARE, AND ACCESSORIES. SALVAGE AND TURN OVER TO OWNER ALL DISPENSERS, SANITARY NAPKIN DISPOSALS, GRAB BARS AND FAUCETS. DISCARD REMAINING ITEMS	
5	REMOVE AND DISCARD EXISTING WALLS WHERE INDICATED FOR NEW DOOR - SHOWN DASHED, TYP.	
6	REMOVE EXISTING WALL AND PREPARE FOR NEW WINDOW. DEMOLISH HORIZONTALLY TO COURSING. REFER TO NEW WINDOW DETAILS.	
7	REMOVE EXISTING WALL AND PREPARE FOR NEW STOREFRONT. REFER TO STOREFRONT DETAILS FOR SCOPE OF DEMO.	
8	REMOVE AND DISCARD EXISTING STOREFRONT WHERE INDICATED - SHOWN DASHED, TYP.	
9	REMOVE EXISTING CASEWORK AND SECTION OF EXISTING COUNTER TOP. PREPARE FLOOR SUIRFACE FOR NEW LVT TO MATCH EXISTING LVT IN ROOM. PREP FOR STOVE EXHAUST REFER TO MECHANICAL. REFER TO INTERIOR ELEVATIONS.	
10	REMOVE AND DISCARD EXISTING CMU WALLS WHERE INDICATED - SHOWN DASHED, TYP.	
11	GENERAL CONTRACTOR TO REMOVE AND SAVE WINDOW SHADES FOR REINSTALL.	
12	PATCH AS REQUIRED FOR ANY NEW OR REMOVED PLUMBING, DUCTWORK, ELECTRICAL OR MECHANICAL PENETRATIONS. PAINT AS REQUIRED FOR PATCHES.	
13	REMOVE ALL EXISTING CASEWORK, COUNTERTOP AND ASSOCIATED TRIM.	
14	REMOVE EXISTING STOOP INCLUDEING ALL ASSOCIATED CONCRETE, STEPS, FOOTINGS AND FOUNDATION ELEMEMENTS.	
15	REMOVE EXISTING COLUMN. SEE STRUCTURAL DRAWINGS.	
16	EXISTING ELECTICAL PANEL TO BE RELOCATED. SEE ELECTRICAL DRAWINGS FOR NEW LOCATION	
17	REMOVE EXISTING BRICK WALL IN ITS ENTIRETY. SALVAGE EXISTING BRICK FOR INFILL AREAS.SEE STRUCTURAL FOR COLUMN DEMO AND REVISED LOCATIONS.	
18	REMOVE EXISTING BRICK WALL WHERE INDICATED FOR NEW DOOR - SHOWN DASHED, TYP. SALVAGE EXISTING BRICK FOR INFILL AREAS.	
19	REMOVE AND DISCARD EXISTING CASEWORK, COUNTER, SERVICE WINDOW GLASS WHERE INDICATED.	
20	REMOVE EXISTING CMU WALL WERE INDICATED BY DASHED LINE.	
21	REMOVE EXISTING FLOOR FINISH AND BASE THROUGHOUT AS INDICATED. PREPARE SUBSTRATE FOR NEW FINISH PER MANUFACTURER REQUIRMENTS. REMOVE ADHESIVES AND RESIDUE. PATCH AND LEVEL SUBFLOOR AS REQUIRED.	
22	REMOVE EXISTING DOOR SLAB, EXISTING DOOR FRAME IS TO REMAIN SEE DOOR SCHEDULE.	
23	REMOVE EXISTING CURTAIN WALL SYSTEM IN ITS ENTIRETY	
24	PREPARE COUNTER TOP & OPENING FOR SECURITY STOREFRONT. COILING DOOR TO REMAIN	
25	REMOVE AND DISCARD EXISTING STRORERFRONT. REMOVE AND DISCARD WALL UNDER SILL WHERE INDICATED - SHOWN DASHED, TYP.	
26	CEILING REMOVAL AND REINSTALLATION FOR WASTE PIPE REMOVAL, SEE MECHANICAL	
27	REMOVE CEILING TILES AS NECESSARY FOR MEP SCOPE; SALVAGE TILES FOR REINSTALLATION AFTER SCOPE IS COMPLETE	
28	REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER AND CABINET. SEE NEW CONSTRUCTION FOR NEW LOCATION.	

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LICENSED ARCHITECT KATELYN CRIDER (2867) 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025

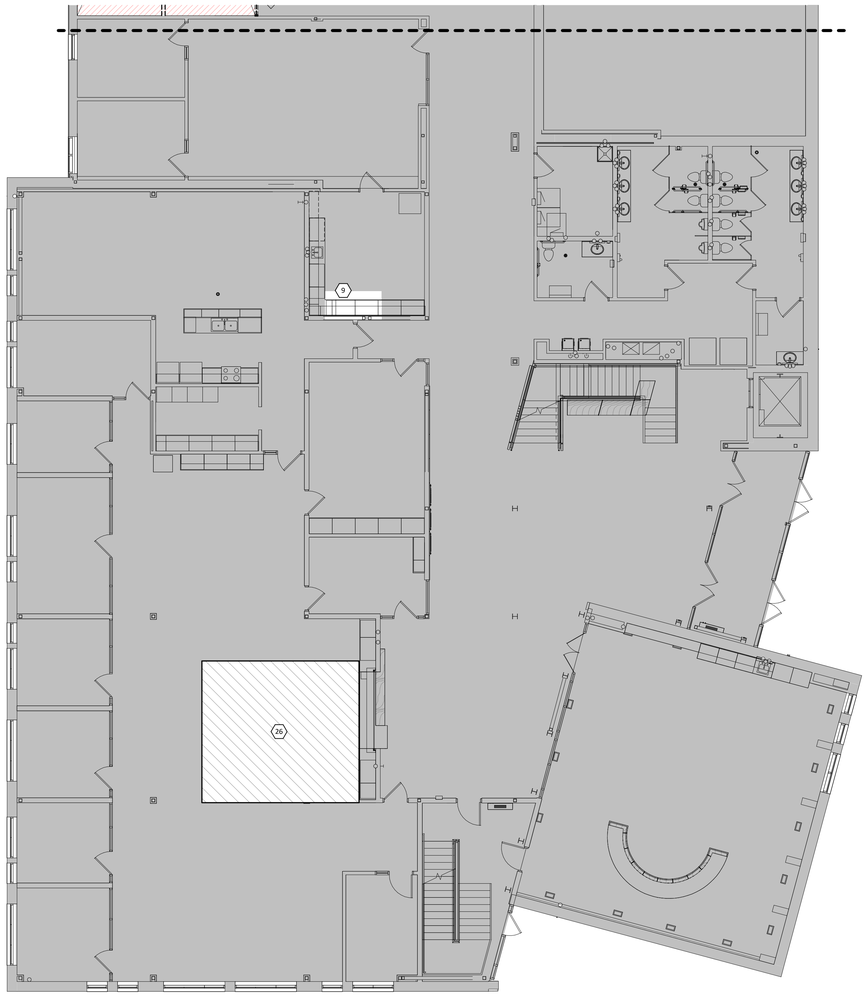
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24146

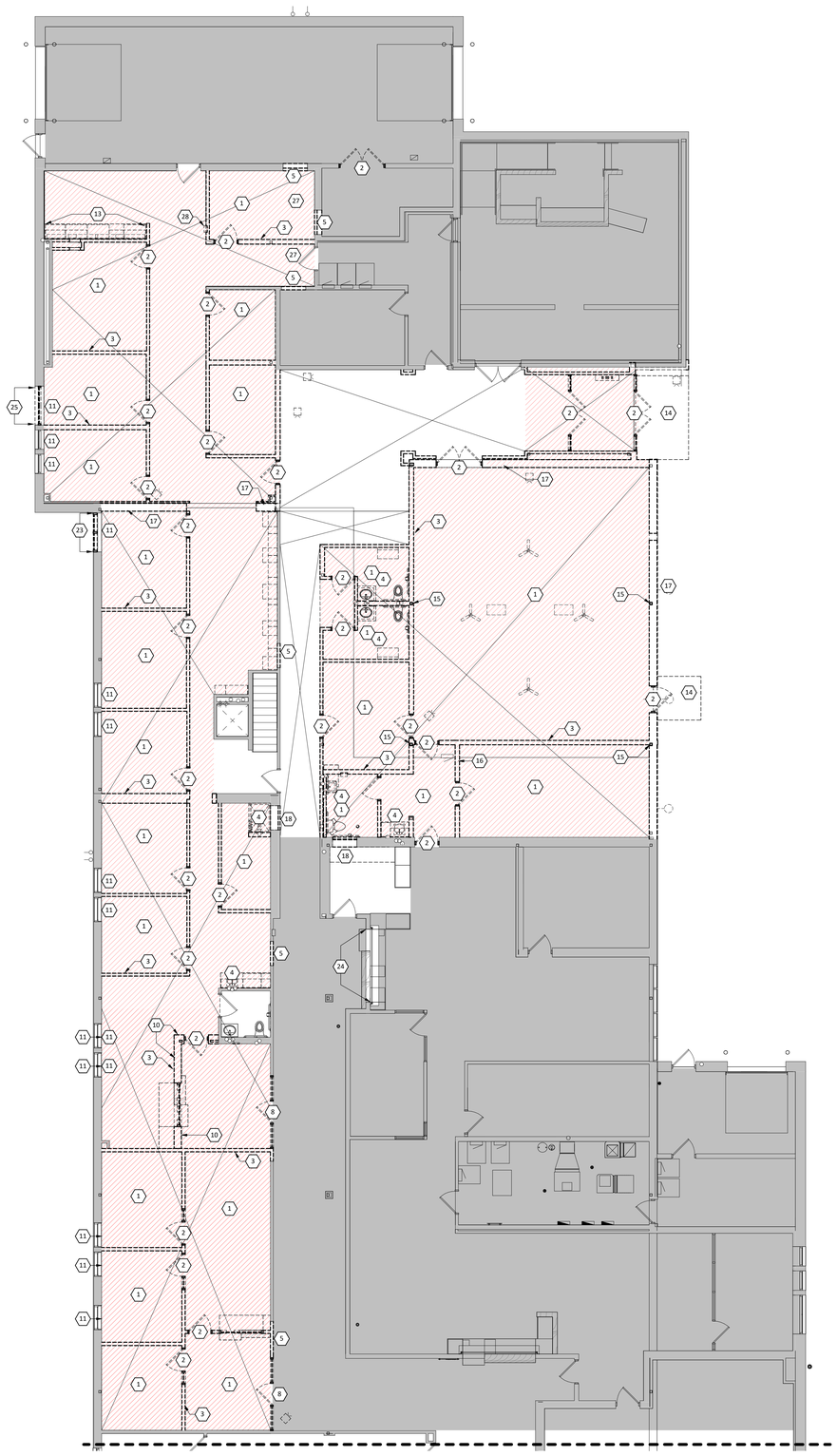
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A100

BASEMENT DEMOLITION PLAN

10/21/2025 1:40:17 PM



1 A101 DEMO PLANS - AREA A
SCALE: 1/8" = 1'-0"



2 A101 DEMO PLANS - AREA B
SCALE: 1/8" = 1'-0"

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H. PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL FLOOR PENETRATIONS. UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC. AND ANY WALLS THAT CONTAIN LIFE SAFETY VERTICAL RISERS THAT MUST REMAIN IN OPERATION DURING THE DEMOLITION WORK.
I. CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS AND FLOOR ELEVATIONS IN FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BEFORE THE START OF WORK.
J. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED,INVESTIGATE AND MEASURE BOTH NATURE AND EXTENT OF THE CONFLICT AND NOTIFY OWNER'S REPRESENTATIVE.
K. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.
L. WHERE DEMOLITION IS REQ'D BEYOND THE LIMITS OF THE CONTRACT TO ROUTE NEW DUCTWORK, PIPING, CONDUITS ETC., RATED WALLS AND SMOKE BARRIERS SHALL BE PATCHED BY CONTRACTOR REQUIRING PENETRATIONS, ALL FINISHES DAMAGED BY THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
M. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQ'D. RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN TO THE CONDITION EXISTING PRIOR TO START OF OPERATIONS. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION.
N. PROVIDE SHORING, BRACING AND ANY OTHER MEANS REQ'D TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY AND STABILITY OF ALL EXISTING AND NEW CONSTRUCTION.
O. WHEN ROOFING, GLAZING, FLASHING, COPING OR PORTIONS OF EXTERIOR WALLS ARE REMOVED OR OPENED, SUITABLE WEATHER PROTECTION SHALL BE PROVIDED AND MAINTAINED FOR THE DURATION OF WORK.
P. REMOVAL OF ITEMS NOTED INCLUDES REMOVAL OF ANCHORS, ADHESIVES, HARDWARE, CONDUIT, WIRE, PIPING, ETC. FOR A COMPLETE REMOVAL OF THE ITEMS OR SYSTEMS.
Q. WHEREVER WATER CLOSETS, FLOOR SINKS OR OTHER EQUIPMENT AND RELATED PIPING ARE TO BE REMOVED, PATCH FLOOR SLAB W/ CONCRETE AS REQUIRED.
R. ALL CONCRETE FLOOR SLABS NOTED TO BE REMOVED SHALL BE SAWCUT TO PROVIDE A NEAT JOINT.
S. SEE MECHANICAL, CIVIL, AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL SCOPE OF DEMOLITION WORK.
T. SALVAGE ALL EXISTING REMOVED BRICK FOR PATCHING AND REFINISH WORK AS REQ'D - TYPICAL.
U. DEMOLITION OF ANY EXISTING CONSTRUCTION SHALL INCLUDE WHAT IS NECESSARY AND REQ'D TO ACCOMMODATE THE REQUIREMENTS OF NEW CONSTRUCTION. REFER TO THE APPROPRIATE DRAWINGS AS TO THE EXTENT OF NEW CONSTRUCTION TO REMAIN.
V. SURFACES SHALL BE CLEANED AND PREPPED WITHIN THE NEW MATERIALS GUIDELINES OF INSTALLATION OF THEIR PRODUCT IN EXISTING CONSTRUCTION.
W. ALL DEMOLITION SHALL COMPLY WITH APPLICABLE LOCAL CODES AND STATE CODES AND ORDINANCES.
X. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
Y. SALVAGE ALL EXISTING REMOVED CORNER GUARDS FOR REUSE IN NEW PLANS.

DEMOLITION LEGEND

- EXISTING WALL/OBJECT TO REMAIN
- EXISTING WALL/OBJECT TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- FOR ENTIRE FLOOR IN SHADED AREA - COMPLETELY REMOVE ALL EXISTING FLOOR FINISHES (AT ROOMS AND/OR AREAS TO REMAIN AND RECEIVE NEW FLOOR FINISHES, LEAVE SUB-FLOOR CLEAN AND PREPARED FOR NEW WORK
- COMPLETELY REMOVE ALL EXISTING CEILINGS U.N.O. (EITHER LAY-IN, PLASTER, OR GYP BD INCLUDING ALL CURTAIN, CEILING MOUNTED EQUIPMENT, SUPPORTS, TRACKS, ETC.
XX - DEMOLITION KEYNOTE

ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS.THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE AND DEMOLITION/REMOVAL WORK INDICATED ON DEMOLITION PLANS (TYPICAL).

KEYNOTES - DEMOLITION

NO	NOTE	REV.
1	REMOVE EXISTING FINISHES AT FLOORS, WALLS, AND CEILINGS. PREPARE SURFACES FOR NEW FINISHES AS INDICATED	
2	REMOVE AND DISCARD EXISTING DOOR, FRAME, JAMB & THRESHOLDS. SHOWN DASHED, TYP.	
3	REMOVE AND DISCARD EXISTING WALLS WHERE INDICATED - SHOWN DASHED, TYP.	
4	REMOVE AND DISCARD ALL EXISTING TOILET ROOM PLUMBING FIXTURES, HARDWARE, AND ACCESSORIES. SALVAGE AND TURN OVER TO OWNER ALL DISPENSERS, SANITARY NAPKIN DISPOSALS, GRAB BARS AND FAUCETS. DISCARD REMAINING ITEMS	
5	REMOVE AND DISCARD EXISTING WALLS WHERE INDICATED FOR NEW DOOR - SHOWN DASHED, TYP.	
6	REMOVE EXISTING WALL AND PREPARE FOR NEW WINDOW. DEMOLISH HORIZONTALLY TO COURSING. REFER TO NEW WINDOW DETAILS.	
7	REMOVE EXISTING WALL AND PREPARE FOR NEW STOREFRONT. REFER TO STOREFRONT DETAILS FOR SCOPE OF DEMO.	
8	REMOVE AND DISCARD EXISTING STOREFRONT WHERE INDICATED - SHOWN DASHED, TYP.	
9	REMOVE EXISTING CASEWORK AND SECTION OF EXISTING COUNTER TOP. PREPARE FLOOR SURFACE FOR NEW LVT TO MATCH EXISTING LVT IN ROOM. PREP FOR STOVE EXHAUST REFER TO MECHANICAL. REFER TO INTERIOR ELEVATIONS.	
10	REMOVE AND DISCARD EXISTING CMU WALLS WHERE INDICATED - SHOWN DASHED, TYP.	
11	GENERAL CONTRACTOR TO REMOVE AND SAVE WINDOW SHADES FOR REINSTALL.	
12	PATCH AS REQUIRED FOR ANY NEW OR REMOVED PLUMBING, DUCTWORK, ELECTRICAL OR MECHANICAL PENETRATIONS. PAINT AS REQUIRED FOR PATCHES.	
13	REMOVE ALL EXISTING CASEWORK, COUNTERTOP AND ASSOCIATED TRIM.	
14	REMOVE EXISTING STOOP INCLUDEING ALL ASSOCIATED CONCRETE, STEPS, FOOTINGS AND FOUNDATION ELEMEMENTS.	
15	REMOVE EXISTING COLUMN. SEE STRUCTURAL DRAWINGS.	
16	EXISTING ELECTICAL PANEL TO BE RELOCATED. SEE ELECTRICAL DRAWINGS FOR NEW LOCATION	
17	REMOVE EXISTING BRICK WALL IN ITS ENTIRETY. SALVAGE EXISTING BRICK FOR INFILL AREAS.SEE STRUCTURAL FOR COLUMN DEMO AND REVISED LOCATIONS.	
18	REMOVE EXISTING BRICK WALL WHERE INDICATED FOR NEW DOOR - SHOWN DASHED, TYP. SALVAGE EXISTING BRICK FOR INFILL AREAS.	
19	REMOVE AND DISCARD EXISTING CASEWORK, COUNTER, SERVICE WINDOW GLASS WHERE INDICATED.	
20	REMOVE EXISTING CMU WALL WERE INDICATED BY DASHED LINE.	
21	REMOVE EXISTING FLOOR FINISH AND BASE THROUGHOUT AS INDICATED. PREPARE SUBSTRATE FOR NEW FINISH PER MANUFACTURER REQUIRMENTS. REMOVE ADHESIVES AND RESIDUE. PATCH AND LEVEL SUBFLOOR AS REQUIRED.	
22	REMOVE EXISTING DOOR SLAB, EXISTING DOOR FRAME IS TO REMAIN SEE DOOR SCHEDULE.	
23	REMOVE EXISTING CURTAIN WALL SYSTEM IN ITS ENTIRETY	
24	PREPARE COUNTER TOP & OPENING FOR SECUIRTY STOREFRONT. COILING DOOR TO REMAIN	
25	REMOVE AND DISCARD EXISTING STOREFRONT. REMOVE AND DISCARD WALL UNDER SILL WHERE INDICATED - SHOWN DASHED, TYP.	
26	CEILING REMOVAL AND REINSTALLATION FOR WASTE PIPE REMOVAL, SEE MECHANICAL	
27	REMOVE CEILING TILES AS NECESSARY FOR MEP SCOPE; SALVAGE TILES FOR REINSTALLATION AFTER SCOPE IS COMPLETE	
28	REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER AND CABINET. SEE NEW CONSTRUCTION FOR NEW LOCATION.	

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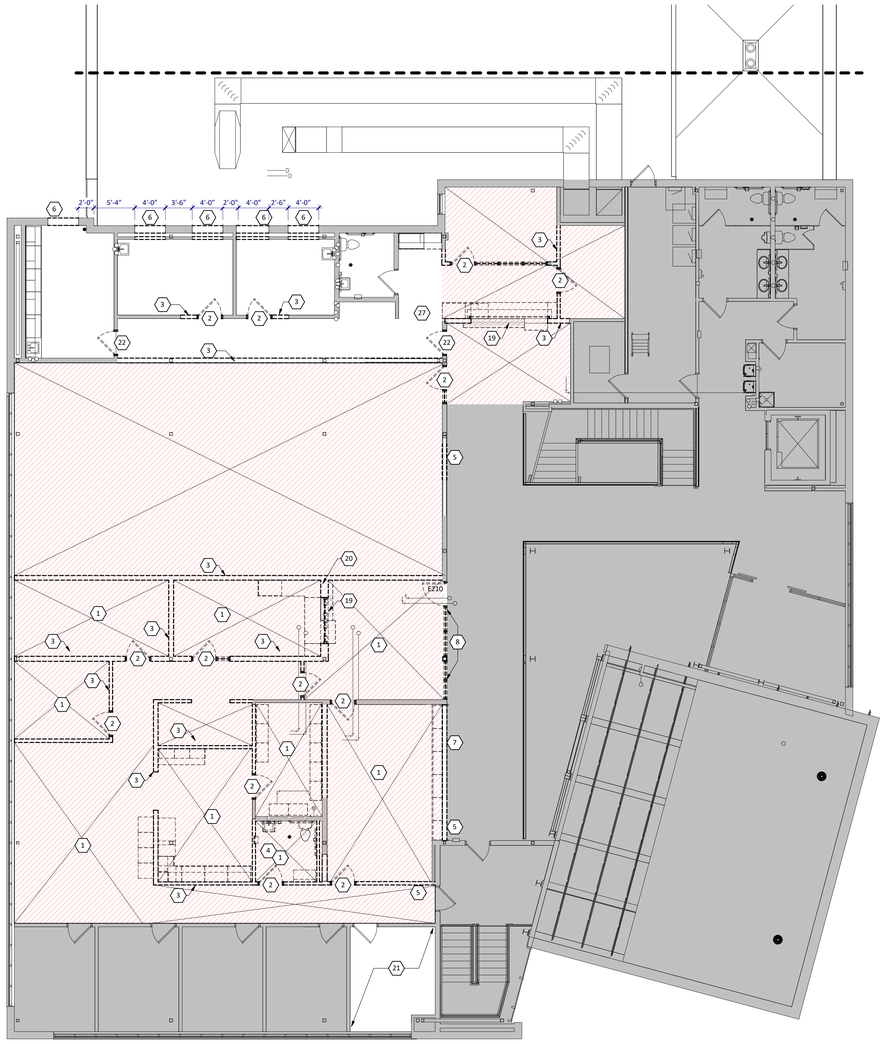
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MANNING, ND

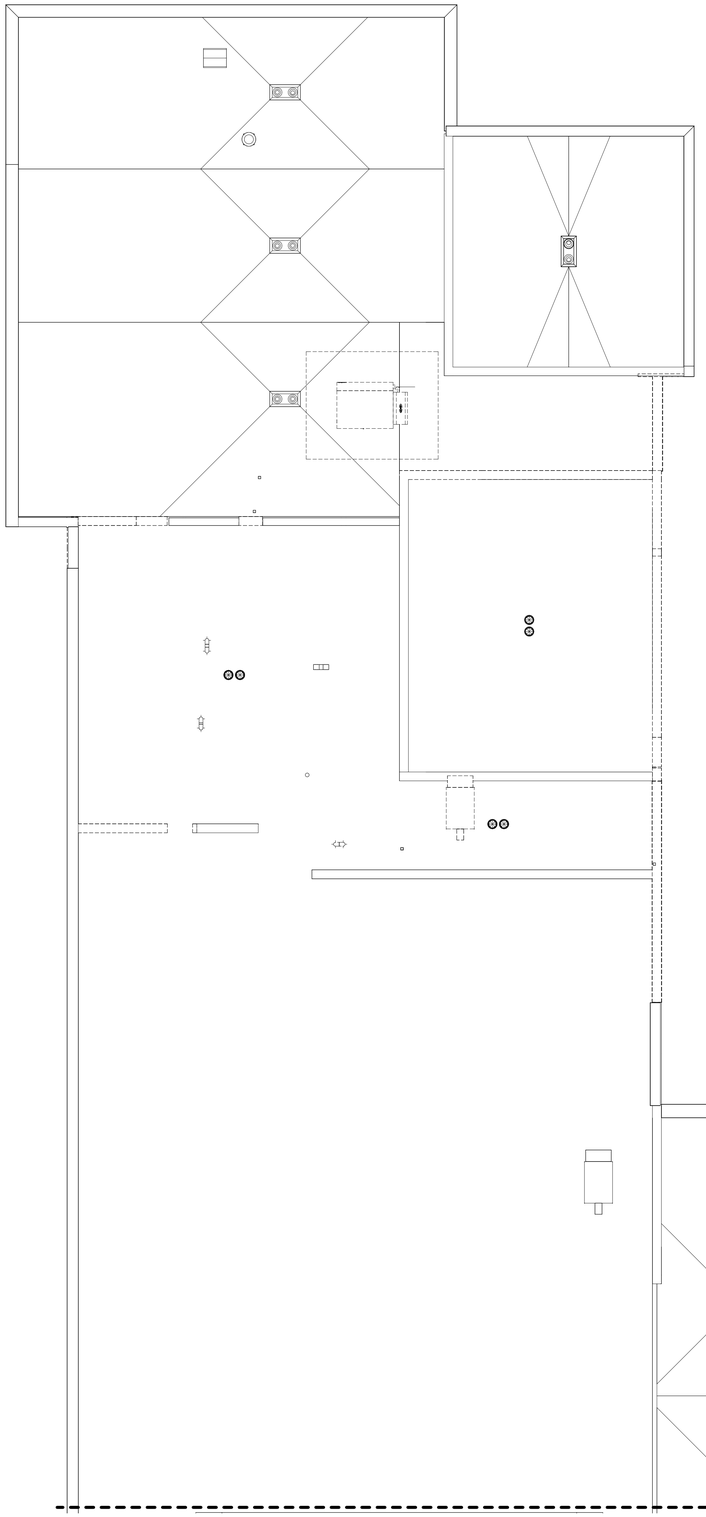
DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A101
FIRST FLOOR DEMOLITION PLAN

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1 A102 ALTEERNATE 1- DEMO PLAN - AREA A

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



2 A102 DEMO PLAN - AREA B

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

GENERAL NOTES - DEMOLITION

A. THE OWNER'S NORMAL OPERATIONS WILL BE CONTINUED DURING DEMOLITION. DEMOLITION CONTRACTOR SHALL NOT INTERFERE WITH THESE OPERATIONS IN ANY WAY WITHOUT THE OWNER'S EXPRESSED CONSENT.
B. OWNER WILL OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE DEMOLITION. CONDUCT SELECTIVE DEMOLITION WORK IN MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF OWNER'S NORMAL OPERATIONS. REFER TO SPECIFICATIONS FOR MINIMUM ADVANCE NOTICE TO OWNER.
C. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
D. PROVIDE FIRE RESISTANT CONSTRUCTION BARRIERS WHERE REQ'D TO PROTECT EXISTING CONSTRUCTION AND OWNER'S OPERATIONS.
E. PROTECT FROM DAMAGE EXISTING FINISH WORK THAT IS TO REMAIN IN PLACE AND BECOME EXPOSED DURING DEMOLITION OPERATIONS.
F. PROTECT FLOORS WITH SUITABLE COVERING WHEN NECESSARY.
G. COVER AND PROTECT FURNITURE, EQUIPMENT, AND FIXTURES FROM SOILAGE OR DAMAGE WHEN DEMOLITION WORK IS PERFORMED IN AREAS WHERE SUCH ITEMS HAVE NOT BEEN REMOVED.
H. PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL FLOOR PENETRATIONS. UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC. AND ANY WALLS THAT CONTAIN LIFE SAFETY VERTICAL RISERS THAT MUST REMAIN IN OPERATION DURING THE DEMOLITION WORK.
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- DEMOLITION KEYNOTE

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8	REMOVE AND DISCARD EXISTING STOREFRONT WHERE INDICATED - SHOWN DASHED, TYP.	
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15	REMOVE EXISTING COLUMN. SEE STRUCTURAL DRAWINGS.	
16	EXISTING ELECTICAL PANEL TO BE RELOCATED. SEE ELECTRICAL DRAWINGS FOR NEW LOCATION	
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22	REMOVE EXISTING DOOR SLAB, EXISTING DOOR FRAME IS TO REMAIN SEE DOOR SCHEDULE.	
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24	PREPARE COUNTER TOP & OPENING FOR SECURITY STOREFRONT. COILING DOOR TO REMAIN	
25	REMOVE AND DISCARD EXISTING STRORERFRONT. REMOVE AND DISCARD WALL UNDER SILL WHERE INDICATED - SHOWN DASHED, TYP.	
26	CEILING REMOVAL AND REINSTALLATION FOR WASTE PIPE REMOVAL, SEE MECHANICAL	
27	REMOVE CEILING TILES AS NECESSARY FOR MEP SCOPE; SALVAGE TILES FOR REINSTALLATION AFTER SCOPE IS COMPLETE	
28	REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER AND CABINET. SEE NEW CONSTRUCTION FOR NEW LOCATION.	

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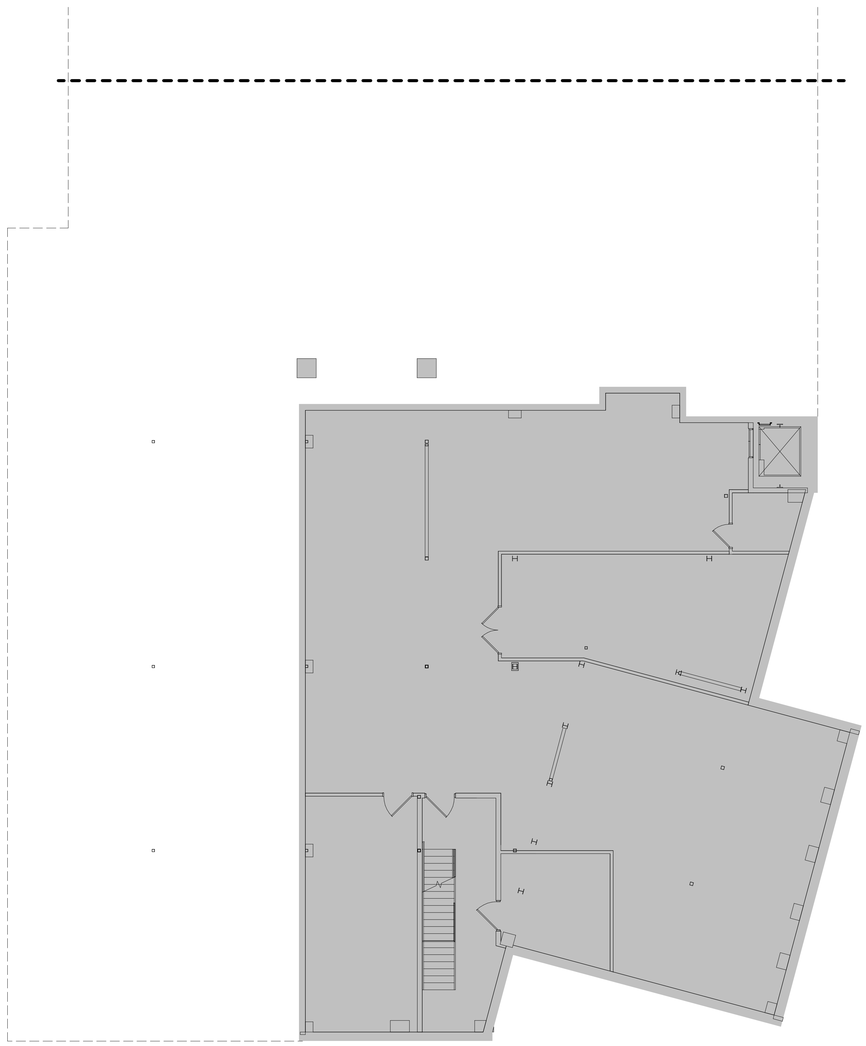
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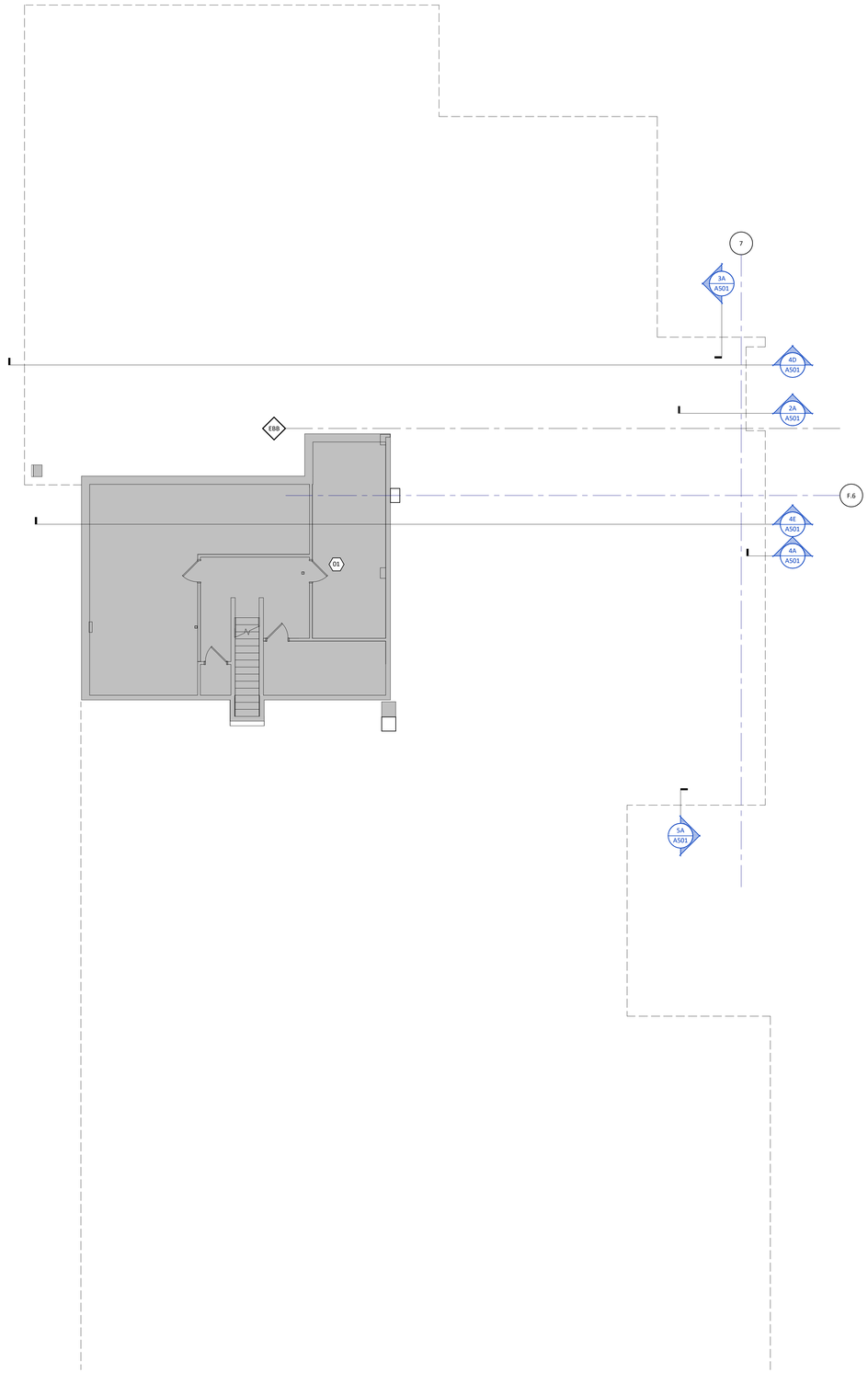
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **A102**

SECOND FLOOR DEMOLITION PLAN - ALTERNATE 1

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6A A200 BASEMEN FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

4A A200 BASEMENT FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

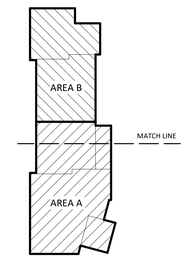
GENERAL NOTES - FLOOR PLAN

A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQUIREMENTS AND LOCATIONS SEE DWG G120.
B. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
C. COORDINATE PARTITION FIRE RATED REQUIREMENTS AS INDICATED ON LIFE SAFETY PLANS.
D. TYPICALLY INSTALL SOAP DISPENSERS AND PAPER TOWEL DISPENSER AT ALL SINKS UNLESS NOTED OTHERWISE.
E. PROVIDE WALL REINFORCEMENT PER DETAIL BA/A-620 AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKER BOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS.
F. FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O.
G. COORDINATE DIMENSIONS W/ ASTERISK (IE - "X'-X") W/ EQUIPMENT VENDOR.
H. PROVIDE BULLNOSE ON ALL CMU OUTSIDE CORNERS - TYPICAL.
I. FOR INTERIOR METAL STUD CONSTRUCTION ALL DIMENSIONS ARE TO FACE OF METAL STUDS UNLESS NOTED OTHERWISE.
J. ALL DIMENSIONS INDICATED AS 'CLEAR' ARE TO FACE OF FINISH (GYPSUM, TILE, ETC.).
K. ALL MASONRY DIMENSIONS ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.
L. ALL EXTERIOR OPENING DIMENSIONS ARE ROUGH OPENINGS.
M. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
N. COORDINATE AND/OR CONFIRM ANY DIMENSIONAL DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.

KEYNOTES - FLOOR PLAN

NO	NOTE	REV.
01	NEW DOOR HARDWARE ON EXISTING DOOR. SEE DOOR SCHEDULE AND SPEC.	
02	CASEWORK IS MODIFIED FOR STOVE AND EXHAUST THROUGH ROOF, SEE MECHANICAL	
03	NEW POWER AND DATA FOR COMPUTER STATION. SEE ELECTICAL. FURNITURE AND COMPUTER NOT IN CONTRACT.	
04	SEE ELECTRICAL FOR FLOOR BOXES.	
05	EXTENTS OF (BAL PNL -1) INDICATED BY DASHED LINE	
06	WALL MOUNTED TV O.F.C.I. ; PROVIDE BLOCKING AT 5' 2"	
07	INFILL EXISTING DOOR OPENING , LEVEL AND PLUMB	
08	PROVIDE AND INSTALL PANIC BUTTON AT CASEWORK & EXISTING FURNITURE - SEE ELECTICAL . COORDINATE FINAL MOUNTING LOCATIONS WITH ARCHITECT	
09	ALTERNATE 2- INSTALL BALLISTIC RATED SERVICE WINDOW AT EXISTING SERVICE COUNTER. INSTALL BALLISTIC RATED PANEL INTO EXISTING CASEWORK BELOW NEW SERVICE WINDOW.	
10	BALLISTIC RATED GLASS AND FRAME . EXTENTS OF (BAL PNL -1) BELOW INDICATED BY DASHED LINE	

KEY PLAN



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LICENSED ARCHITECT
KATELYN CRIDER
(2867)
10/21/2025
STATE OF NORTH DAKOTA

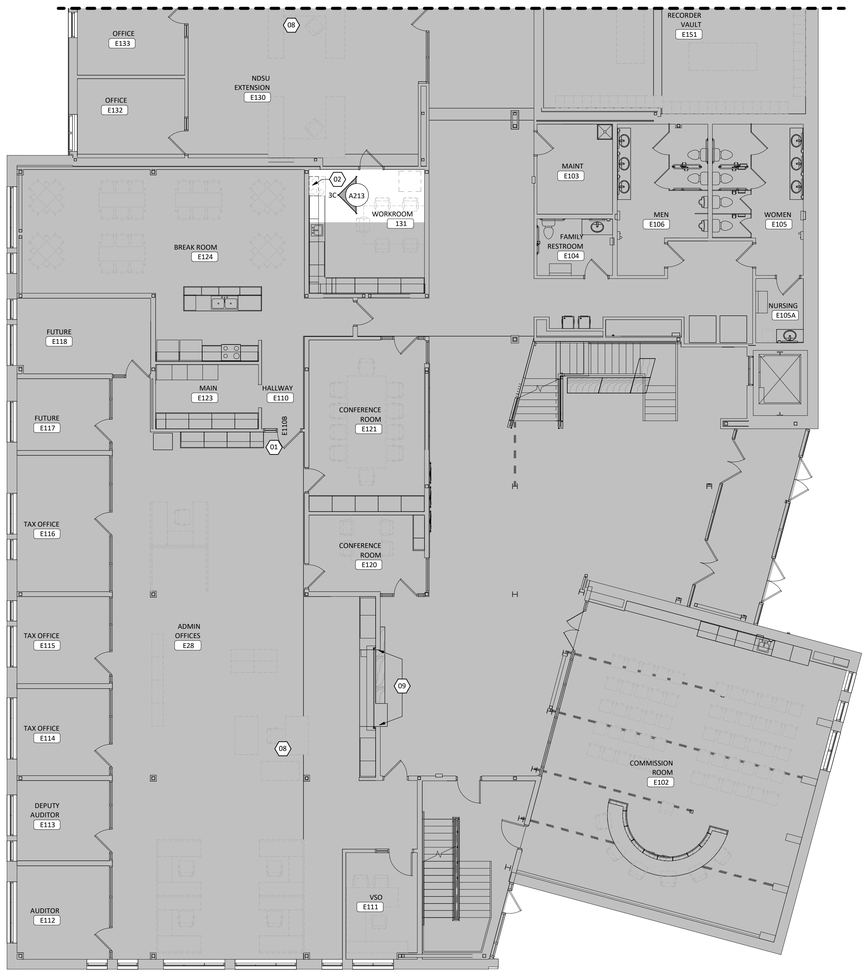
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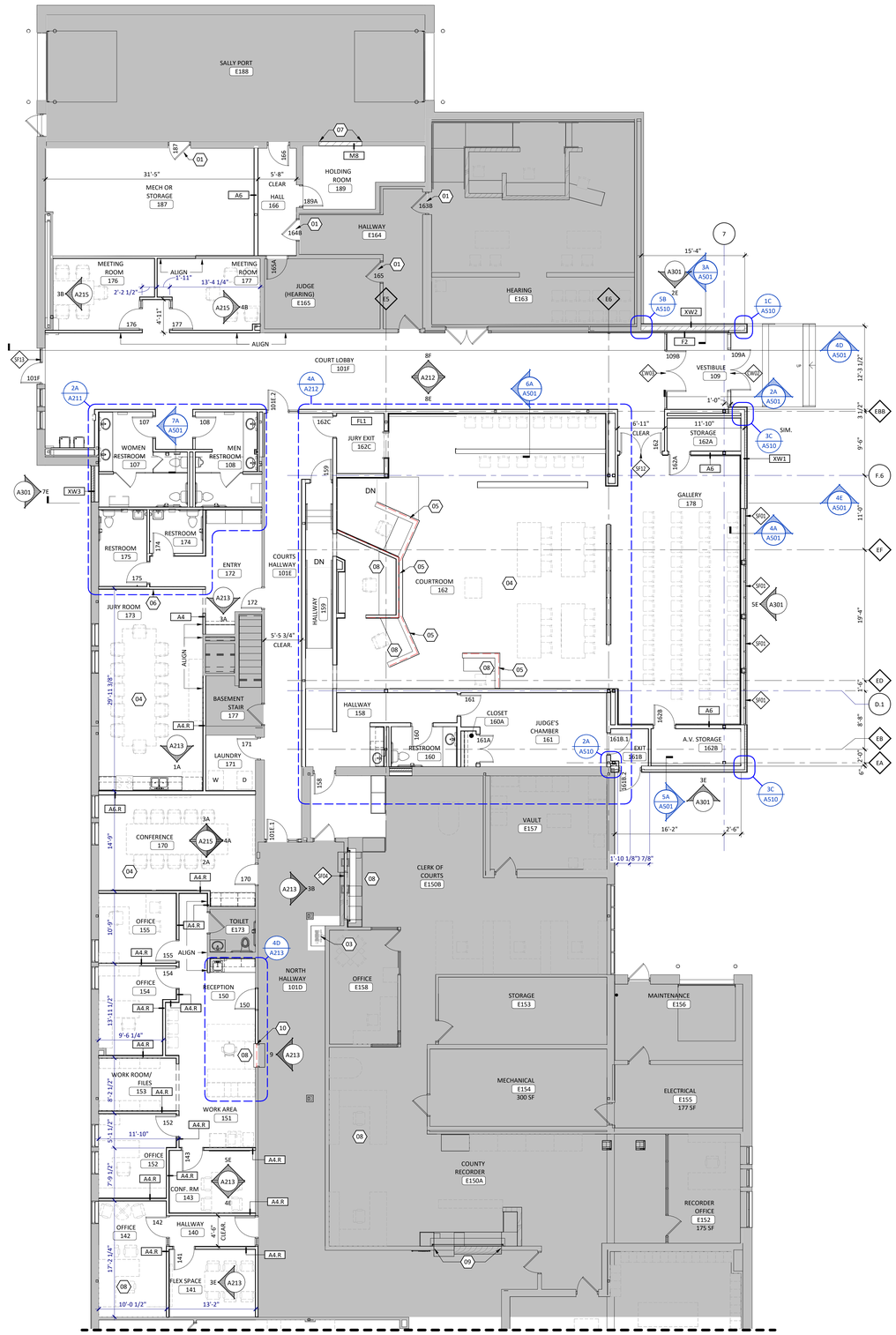
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DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
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PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A200
BASEMENT FLOOR PLAN

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GENERAL NOTES - FLOOR PLAN

A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQUIREMENTS AND LOCATIONS SEE DWG G120.
B. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
C. COORDINATE PARTITION FIRE RATED REQUIREMENTS AS INDICATED ON LIFE SAFETY PLANS.
D. TYPICALLY INSTALL SOAP DISPENSERS AND PAPER TOWEL DISPENSER AT ALL SINKS UNLESS NOTED OTHERWISE.
E. PROVIDE WALL REINFORCEMENT PER DETAIL BA/A-620 AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKER BOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS.
F. FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O.
G. COORDINATE DIMENSIONS W/ ASTERISK (IE - "X'-X") W/ EQUIPMENT VENDOR.
H. PROVIDE BULLNOSE ON ALL CMU OUTSIDE CORNERS - TYPICAL.
I. FOR INTERIOR METAL STUD CONSTRUCTION ALL DIMENSIONS ARE TO FACE OF METAL STUDS UNLESS NOTED OTHERWISE.
J. ALL DIMENSIONS INDICATED AS 'CLEAR' ARE TO FACE OF FINISH (GYPSUM, TILE, ETC.).
K. ALL MASONRY DIMENSIONS ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.
L. ALL EXTERIOR OPENING DIMENSIONS ARE ROUGH OPENINGS.
M. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
N. COORDINATE AND/OR CONFIRM ANY DIMENSIONAL DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION

KEYNOTES - FLOOR PLAN

NO	NOTE	REV.
01	NEW DOOR HARDWARE ON EXISTING DOOR. SEE DOOR SCHEDULE AND SPEC.	
02	CASEWORK IS MODIFIED FOR STOVE AND EXHAUST THROUGH ROOF, SEE MECHANICAL	
03	NEW POWER AND DATA FOR COMPUTER STATION. SEE ELECTICAL. FURNITURE AND COMPUTER NOT IN CONTRACT.	
04	SEE ELECTRICAL FOR FLOOR BOXES.	
05	EXTENTS OF (BAL PNL -1) INDICATED BY DASHED LINE	
06	WALL MOUNTED TV O.F.C.I. ; PROVIDE BLOCKING AT 5' 2"	
07	INFILL EXISTING DOOR OPENING , LEVEL AND PLUMB	
08	PROVIDE AND INSTALL PANIC BUTTON AT CASEWORK & EXISTING FURNITURE . SEE ELECTICAL . COORDINATE FINAL MOUNTING LOCATIONS WITH ARCHITECT	
09	ALTERNATE 2- INSTALL BALLISTIC RATED SERVICE WINDOW AT EXISTING SERVICE COUNTER. INSTALL BALLISTIC RATED PANEL INTO EXISTING CASEWORK BELOW NEW SERVICE WINDOW.	
10	BALLISTIC RATED GLASS AND FRAME . EXTENTS OF (BAL PNL -1) BELOW INDICATED BY DASHED LINE	

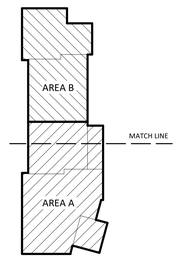
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KEY PLAN



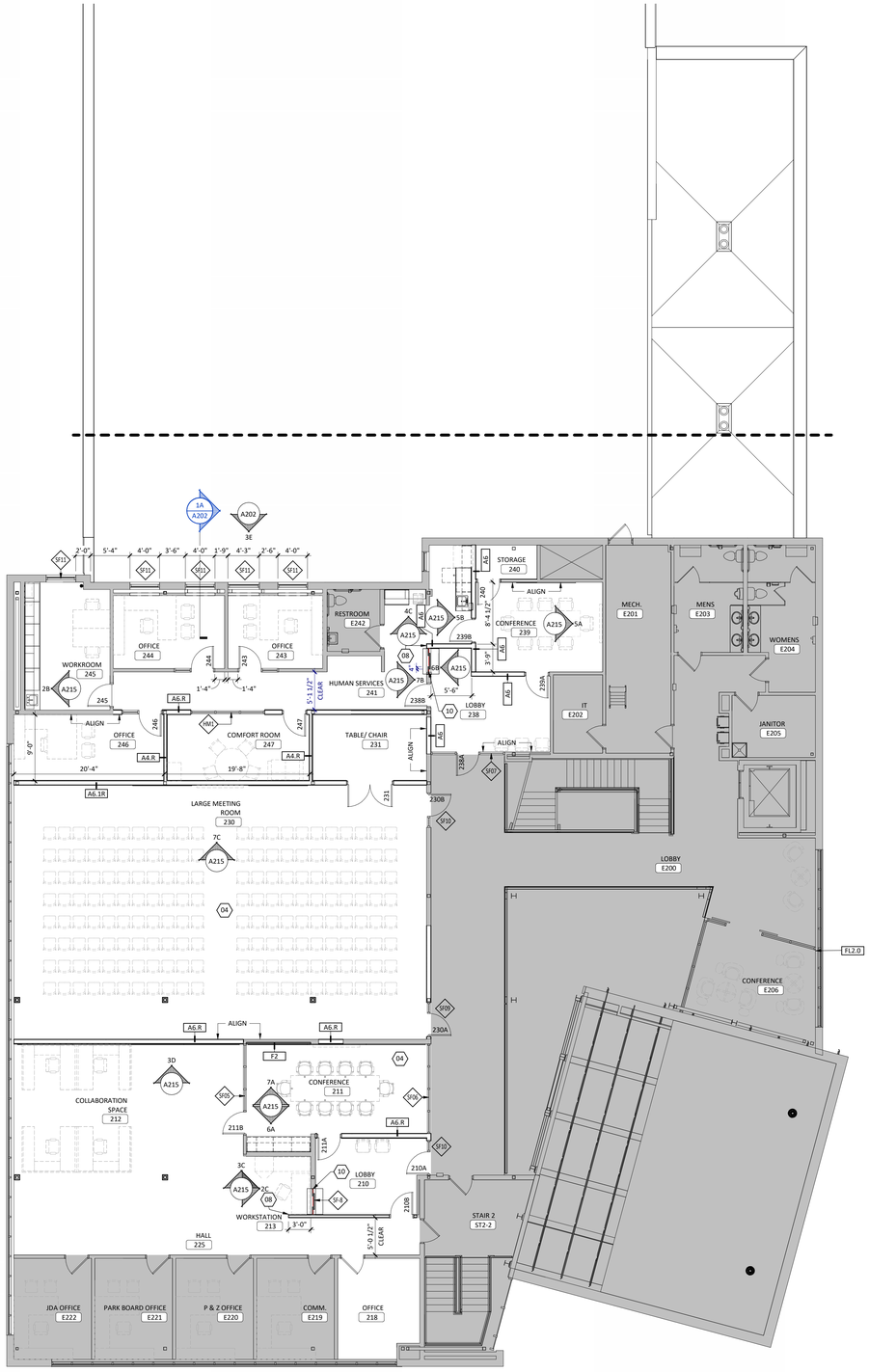
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A201
FIRST FLOOR PLAN

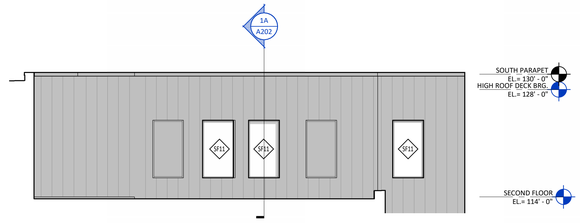
6A / A201 FIRST FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

4A / A201 FIRST FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

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6A
A202
SECOND FLOOR PLAN - AREA A
(ALTERNATE 1)
SCALE: 1/8" = 1'-0"



3E
A202
SECOND FLOOR - NORTH ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

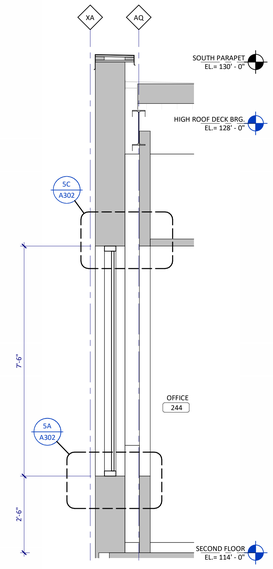
A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQUIREMENTS AND LOCATIONS SEE DWG G120.
B. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
C. COORDINATE PARTITION FIRE RATED REQUIREMENTS AS INDICATED ON LIFE SAFETY PLANS.
D. TYPICALLY INSTALL SOAP DISPENSERS AND PAPER TOWEL DISPENSER AT ALL SINKS UNLESS NOTED OTHERWISE.
E. PROVIDE WALL REINFORCEMENT PER DETAIL BA/A-620 AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKER BOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS
F. FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O.
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H. PROVIDE BULLNOSE ON ALL CMU OUTSIDE CORNERS - TYPICAL.
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K. ALL MASONRY DIMENSIONS ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.
L. ALL EXTERIOR OPENING DIMENSIONS ARE ROUGH OPENINGS.
M. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
N. COORDINATE AND/OR CONFIRM ANY DIMENSIONAL DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION

KEYNOTES - FLOOR PLAN

NO	NOTE	REV.
01	NEW DOOR HARDWARE ON EXISTING DOOR. SEE DOOR SCHEDULE AND SPEC.	
02	CASEWORK IS MODIFIED FOR STOVE AND EXHAUST THROUGH ROOF, SEE MECHANICAL	
03	NEW POWER AND DATA FOR COMPUTER STATION. SEE ELECTICAL, FURNITURE AND COMPUTER NOT IN CONTRACT.	
04	SEE ELECTRICAL FOR FLOOR BOXES.	
05	EXTENTS OF (BAL PNL -1) INDICATED BY DASHED LINE	
06	WALL MOUNTED TV O.F.C.I. ; PROVIDE BLOCKING AT 5' 2"	
07	INFILL EXISTING DOOR OPENING , LEVEL AND PLUMB	
08	PROVIDE AND INSTALL PANIC BUTTON AT CASEWORK & EXISTING FURNITURE . SEE ELECTICAL . COORDINATE FINAL MOUNTING LOCATIONS WITH ARCHITECT	
09	ALTERNATE 2 - INSTALL BALLISTIC RATED SERVICE WINDOW AT EXISTING SERVICE COUNTER. INSTALL BALLISTIC RATED PANEL INTO EXISTING CASEWORK BELOW NEW SERVICE WINDOW.	
10	BALLISTIC RATED GLASS AND FRAME . EXTENTS OF (BAL PNL -1) BELOW INDICATED BY DASHED LINE	



1A
A202
WALL SECTION @ NEW WINDOW
SCALE: 1/2" = 1'-0"

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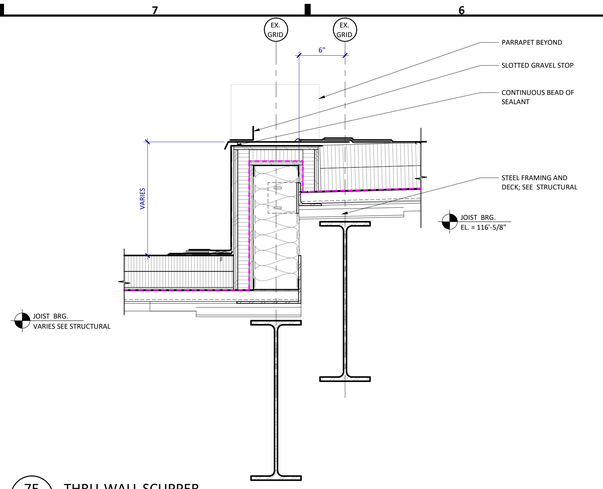
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

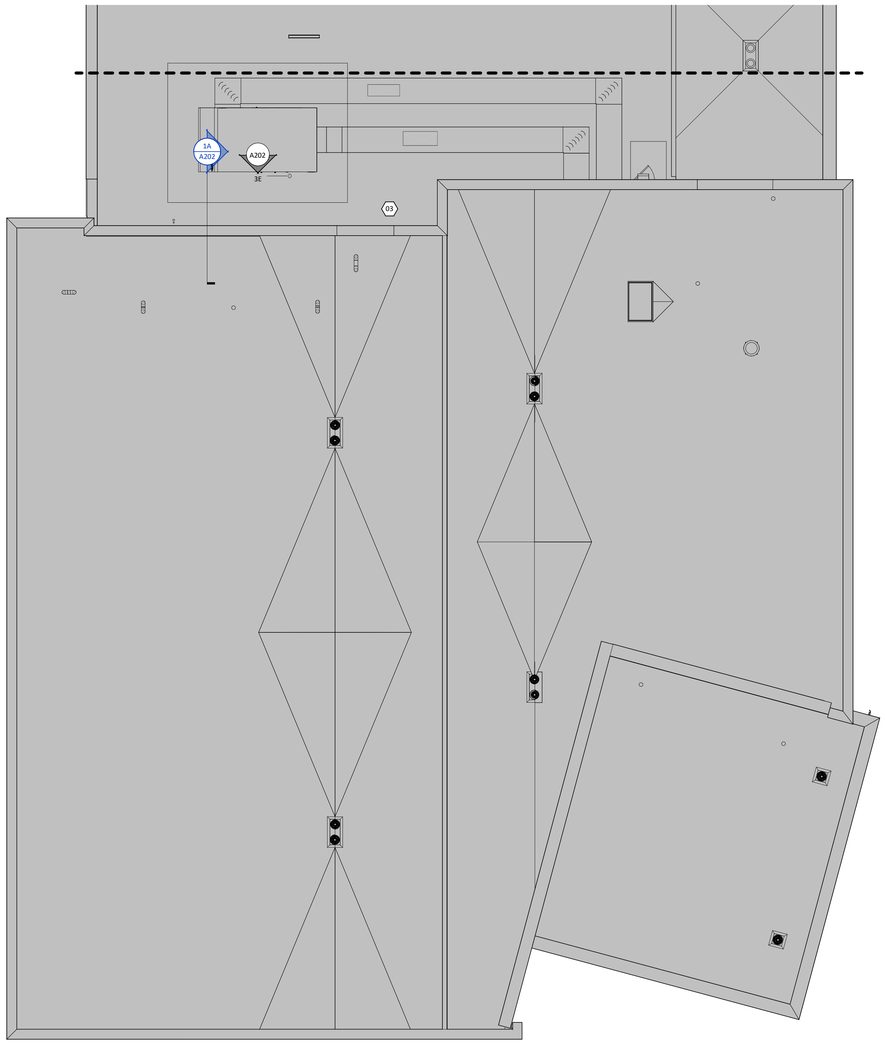
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COURTHOUSE REMODEL
MANNING, ND

DATE
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PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A202
SECOND FLOOR PLAN - ALTERNATE 1

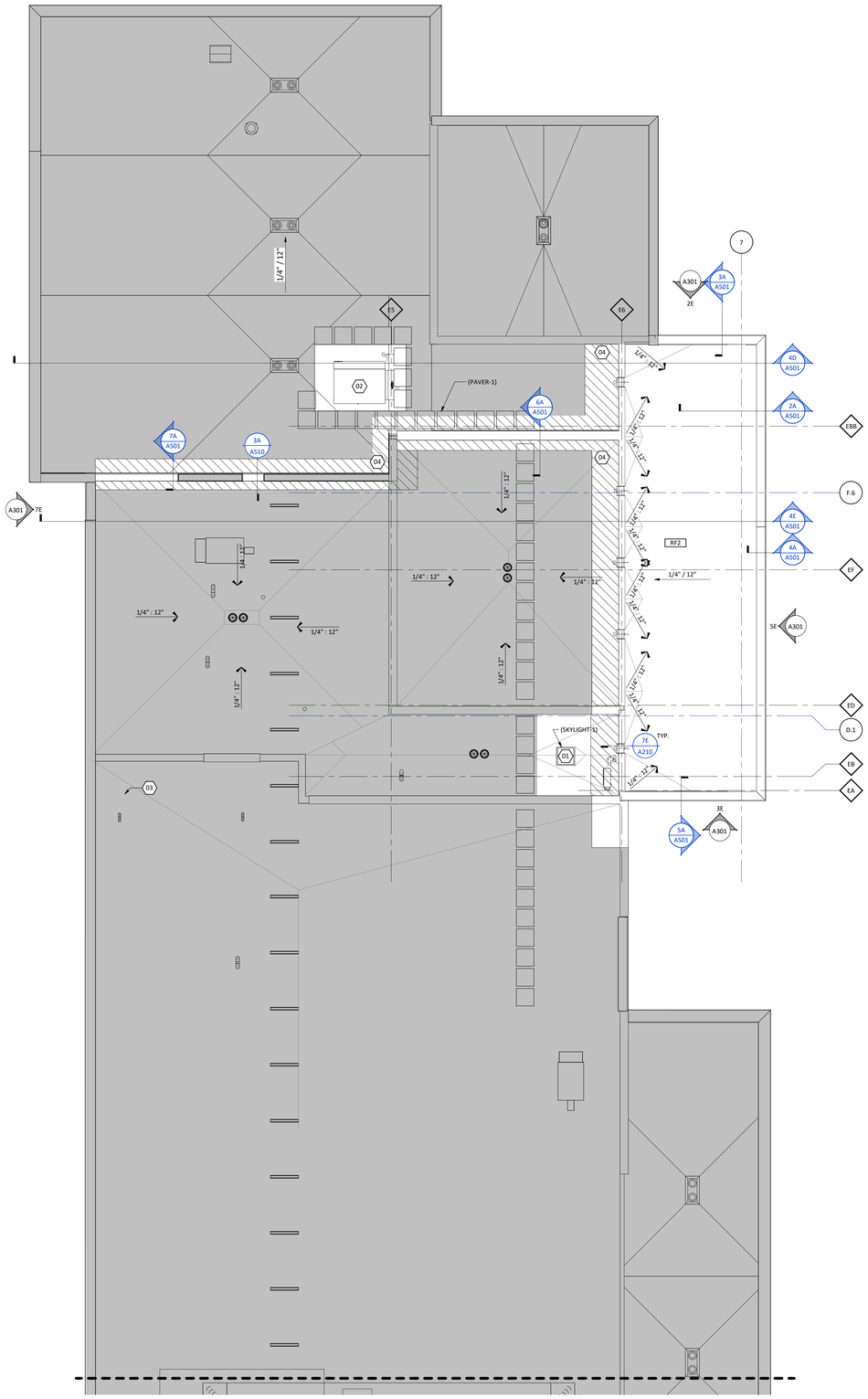
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7E A210 THRU-WALL SCUPPER
SCALE: 1 1/2" = 1'-0"



6A A210 ROOF PLAN - AREA A - ALTERNATE 1
SCALE: 1/8" = 1'-0"



4A A210 ROOF PLAN - AREA B
SCALE: 1/8" = 1'-0"

GENERAL NOTES - ROOF PLAN

A. COORDINATE FINAL SIZE AND FINAL LOCATION OF ALL EQUIPMENT SUPPORT WITH THE APPROPRIATE EQUIPMENT MANUFACTURER.
B. PROVIDE POSITIVE SLOPE TO ALL ROOF DRAINS. ROOF SLOPE TO BE 1/4" PER FOOT MINIMUM.
C. SEE DRAWING FOR ROOF DETAILS. ROOFING CONTRACTOR TO VERIFY ALL ROOF DETAILS COMPLY WITH APPROVED ROOFING SYSTEM. IT IS THE RESPONSIBILITY OF THE ROOFING CONTRACTOR TO SUPPLY ANY ADDITIONAL DETAILS AND/OR MATERIALS TO ENSURE COMPLIANCE WITH WARRANTY.
D. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR ALL PIPES, CURBS, VENTS, DUCTS, CONDUITS, AND OTHER FEATURES EXTENDING THROUGH ROOF SURFACES WHICH REQUIRE FLASHING AND COORDINATE SIZE AND LOCATION OF SAME.
E. FOR ROOF ASSEMBLY TYPES SEE SHEET G102.
F. INLET OF OVERFLOW ROOF SUMPS SHALL BE LOCATED 2" ABOVE ROOF SUMP INLET (TYP) U.N.O.
G. SEE MECHANICAL DRAWINGS FOR FINAL QUANTITIES & FINAL LOCATIONS OF VENTS THRU ROOF.
H. PROVIDE SPLASH BLOCK AT ALL PRIMARY AND SECONDARY RAIN CONDUCTOR TERMINATIONS ONTO SINGLE-PLY MEMBRANE ROOFING
I. INSTALL ROOF FRAMES PRIOR TO CUTTING & REMOVING OF ANY METAL DECK.
J. ROOF TOP WALKWAYS:

SINGLE-PLY MEMBRANE WALK INSTALLED IN ACCORDANCE WITH ROOFING MANUFACTURERS REQUIREMENTS. (SIZE RECOMMENDED BY MANUF.)

R.S. - ROOF SUMP
H.P. - HIGH POINT
O.S. - OVERFLOW ROOF SUMP
S.C. - SCUPPER
V.T.R. - VENT THRU ROOF

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
PAVER-1	07 5300 - CONCRETE PAVER
SKYLIGHT-1	08 6200 - FACTORY ASSEMBLED SKYLIGHT

KEYNOTES - ROOF PLAN

NO	NOTE	REV.
01	INSTALL NEW SKYLIGHT - FLASH AND SEAL PER MANUFACTURER'S INSTUCTIONS. COORDINATE WITH STRUCTURAL FRAMING AND ROOF MEMBRANE. PROVIDE CURB AND INSULATION AS REQUIRED. CONTRACTOR VERIFY LOCATION AND DIMENSION.	
02	NEW RTU IN PLACE OF PRIOR RTU, ENSURE CURB IS IN FOOD CONDITION BEFORE SETTING NEW ONE. REFER TO MECHANICAL.	
03	ROOF EXHAUST PENETRATIONS, SEE MECHANICAL	
04	HATCHED ARE INDICATES EXISTING ROOF AREAS THAT MAY BE EFFECTED BY PARAPET CHANGES.	

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

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MANNING, ND

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PROJECT 24146
SHEET A210
ROOF PLAN

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GENERAL NOTES - INTERIOR ELEVATIONS

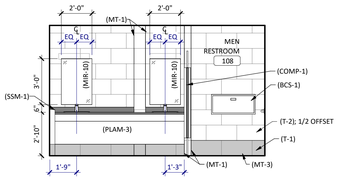
A. REFER TO A620 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
B. **ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.**
C. PROVIDE LEVEL '5' DRYWALL FINISH AT ALL APPLIED GRAPHICS, WALL COVERING OR WRITABLE WALL SURFACE LOCATIONS.
D. PROVIDE WALL REINFORCEMENT AT ALL WALL MOUNTED ITEMS.
E. ANY EXPOSED CABINET EDGE SHALL BE FINISHED EDGE TO MATCH ADJACENT CABINET FINISH.
F. SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

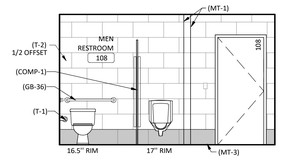
SPEC ID	SPEC SECTION & DESCRIPTION
BCS-1	10 2800 - BABY CHANGING STATION; POLYETHYLENE
COMB-1	10 2800 - COMBINATION TOILET PAPER & WASTE RECEPTACLE
COMP-1	10 2113.19 - PLASTIC TOILET COMPARTMENT
GB-18	10 2800 - GRAB BAR; 18 INCHES
GB-36	10 2800 - GRAB BAR; 36 INCHES
GB-42	10 2800 - GRAB BAR; 42 INCHES
HK-1	10 2800 - COAT/ROBE HOOK, SINGLE PRONG
MIR-10	10 2800 - MIRROR; ANGLE FRAMED
MT-1	09 3000 - TILE TRIM
MT-3	09 3000 - TILE TRIM
ND-1	10 2800 - SANITARY NAPKIN DISPOSAL
PLAM-3	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PTD-1	10 2800 - PAPER TOWEL DISPENSER; C-FOLD
SP-1	10 2800 - SOAP DISPENSER; WALL MOUNT
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP
T-1	09 3000 - TILE
T-2	09 3000 - TILE
TP-2	10 2800 - TOILET PAPER DISPENSER; DOUBLE ROLL

KEYNOTES - INTERIOR ELEV.

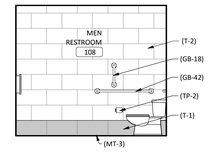
NO	NOTE	REV.
1	WALL MOUNTED TV O.F.C.I. SEE ELEVATIONS FOR MOUTING HEIGHT; PROVIDE BLOCKING	
2	PROVIDE BLOCKING FOR WALL MOUNTED OBJECT	
3	FLOOR DRAIN; SEE MECHANICAL. PROVIDE ZERO SLOPE	
4	3- MECHANICAL EXHAUST FROM RANGE HOOD. SEE MECHCANICAL	



5D A211 **108 MEN - EAST ELEVATION**
SCALE: 1/4" = 1'-0"

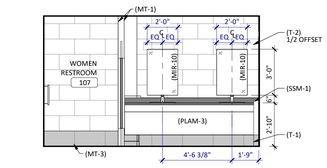


4D A211 **108 MEN - WEST ELEVATION**
SCALE: 1/4" = 1'-0"

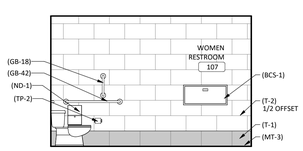


3D A211 **108 MEN - SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"

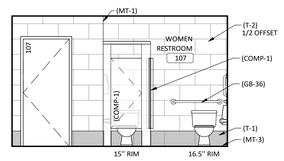
1C A211 **EXISTING COLUMN AT RESTROOM**
SCALE: 3" = 1'-0"



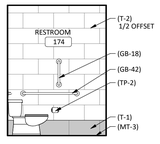
5C A211 **107 WOMEN - WEST ELEVATION**
SCALE: 1/4" = 1'-0"



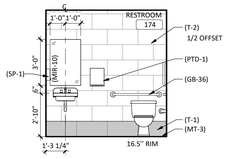
4C A211 **107 WOMEN - SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



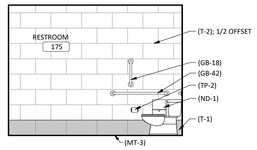
3C A211 **107 WOMEN - EAST ELEVATION**
SCALE: 1/4" = 1'-0"



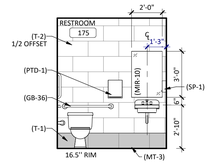
4B A211 **174 RESTROOM EAST ELEVATION**
SCALE: 1/4" = 1'-0"



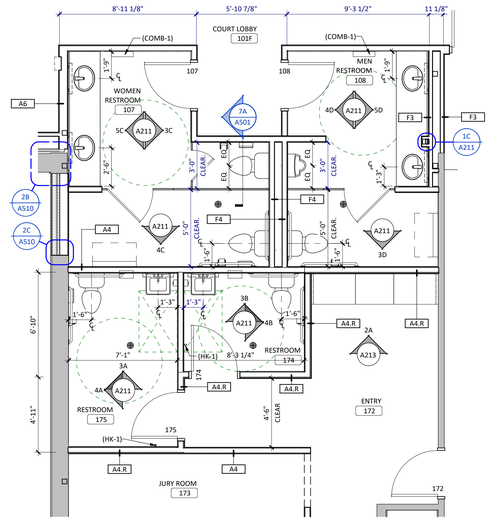
3B A211 **174 RESTROOM NORTH ELEVATION**
SCALE: 1/4" = 1'-0"



4A A211 **175 RESTROOM WEST ELEVATION**
SCALE: 1/4" = 1'-0"



3A A211 **175 RESTROOM NORTH ELEVATION**
SCALE: 1/4" = 1'-0"



2A A211 **ENLARGED RESTROOM**
SCALE: 1/4" = 1'-0"

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(2867)
10/21/2025
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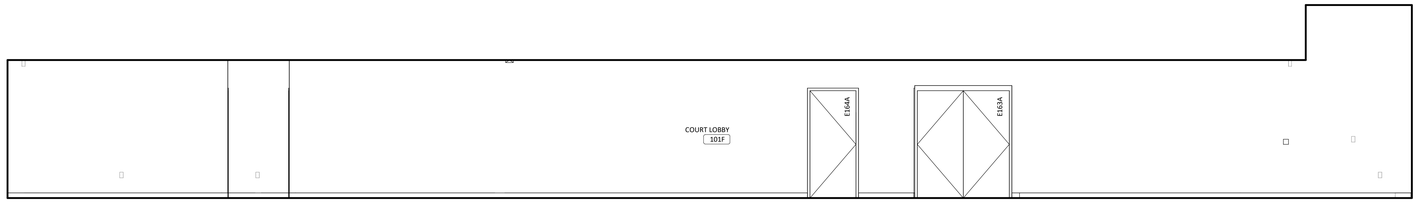
REVISION SCHEDULE

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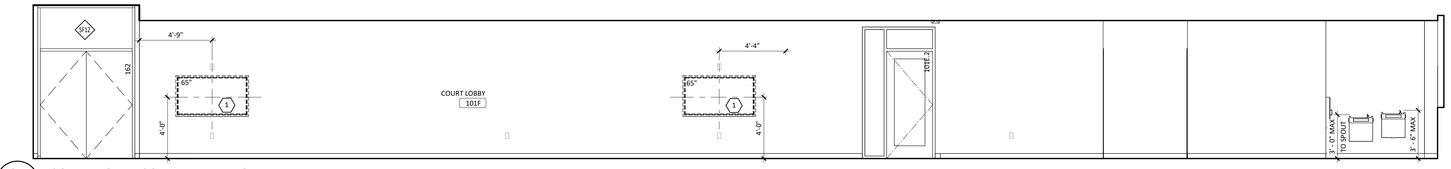
DUNN COUNTY
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10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A211
ENLARGED PLANS AND ELEVATIONS

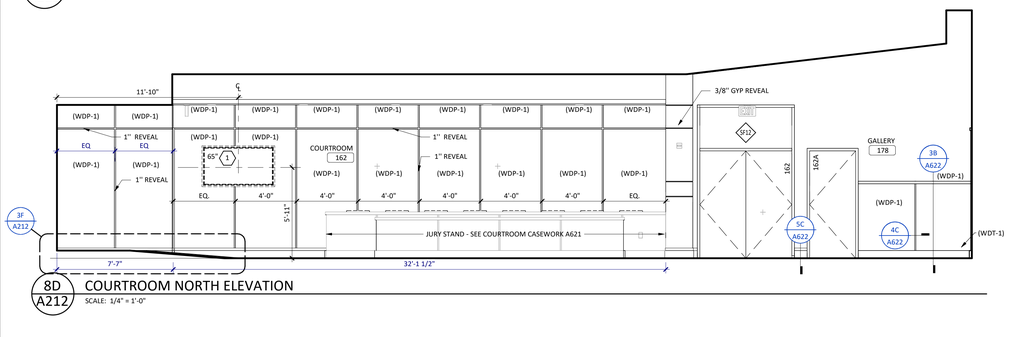
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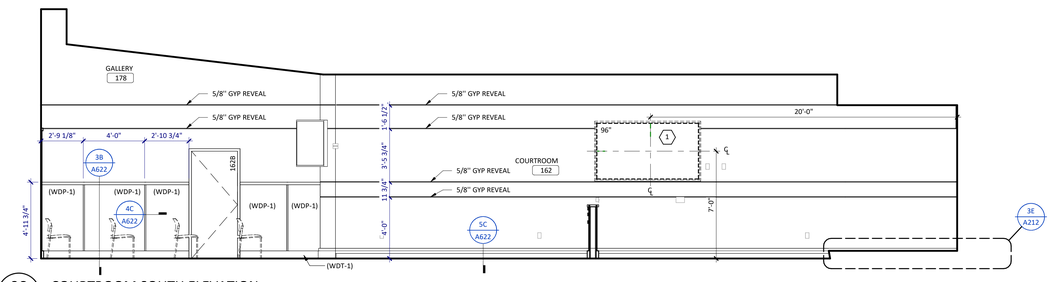
8F A212 COURT LOBBY NORTH ELEVATION
SCALE: 1/4" = 1'-0"



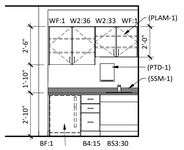
8E A212 COURT LOBBY SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



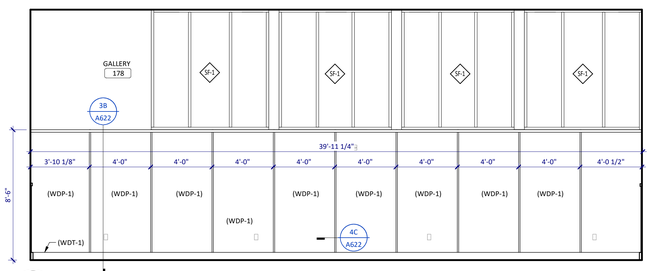
8D A212 COURTROOM NORTH ELEVATION
SCALE: 1/4" = 1'-0"



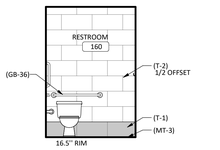
8C A212 COURTROOM SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



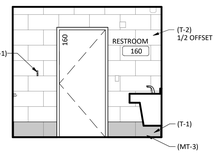
8B A212 COURTS KITCHENETTE
SCALE: 1/4" = 1'-0"



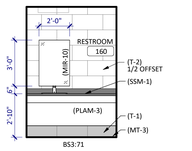
7B A212 COURTROOM EAST ELEVATION
SCALE: 1/4" = 1'-0"



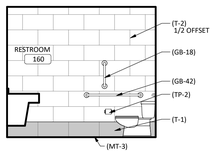
8A A212 RESTROOM 160 - WEST ELEV.
SCALE: 1/4" = 1'-0"



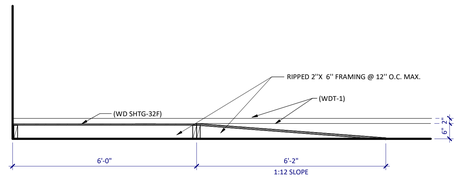
7A A212 RESTROOM 160 - NORTH ELEV.
SCALE: 1/4" = 1'-0"



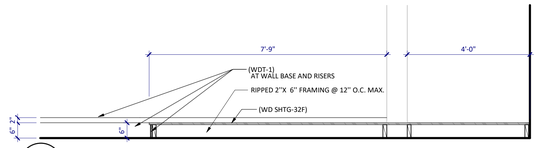
6A A212 RESTROOM 160 - EAST ELEV.
SCALE: 1/4" = 1'-0"



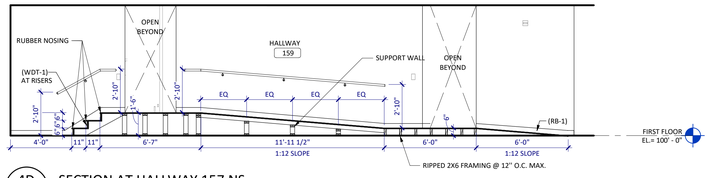
5A A212 RESTROOM 160 - SOUTH ELEV.
SCALE: 1/4" = 1'-0"



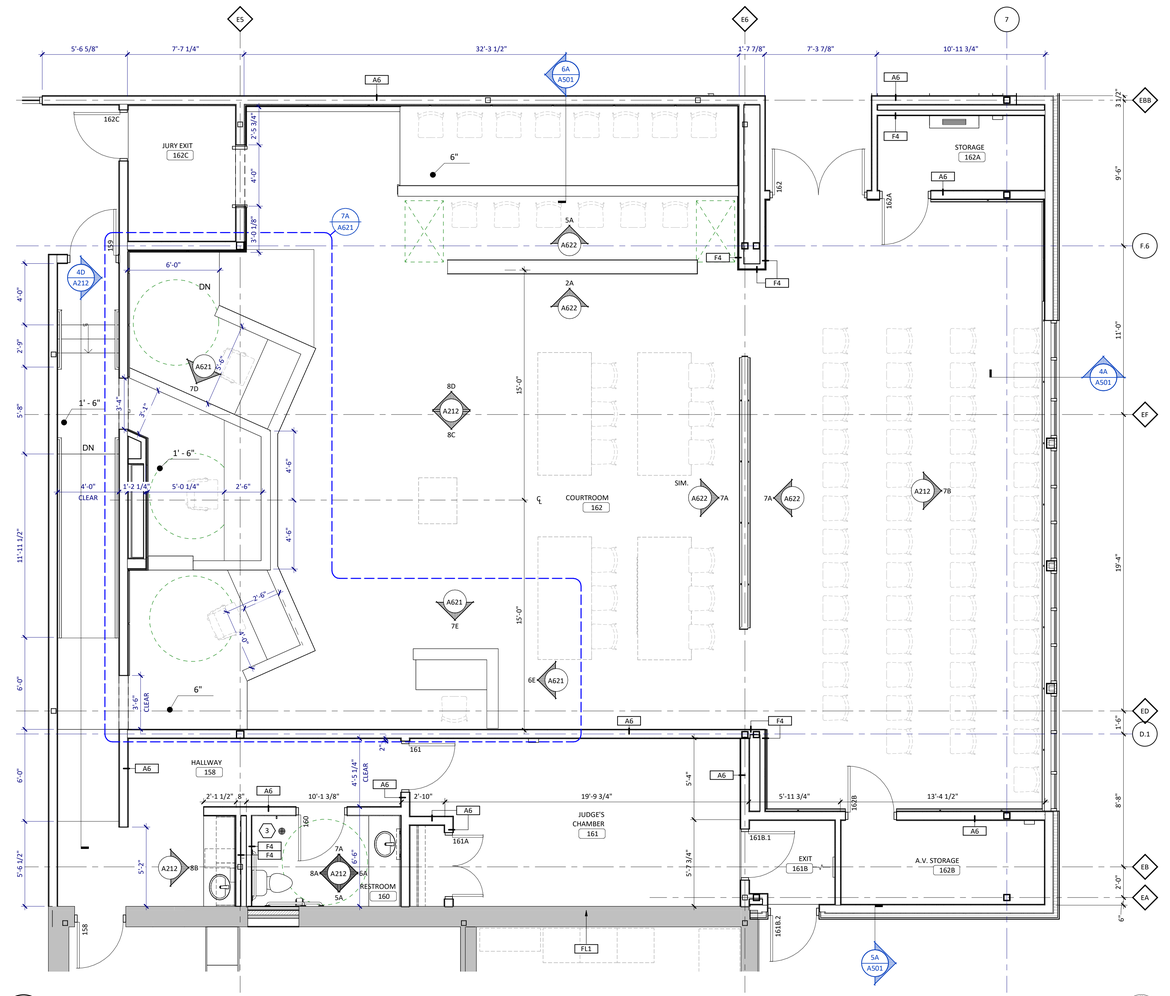
3F A212 COURTROOM WITNESS RAMP SECTION W/E
SCALE: 1/2" = 1'-0"



3E A212 RECORDER RAISED FLOOR SECTION
SCALE: 1/2" = 1'-0"



4D A212 SECTION AT HALLWAY 157 NS
SCALE: 1/4" = 1'-0"



4A A212 ENLARGED COURTROOM
SCALE: 1/4" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. REFER TO A620 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
B. **ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.**
C. PROVIDE LEVEL '5' DRYWALL FINISH AT ALL APPLIED GRAPHICS, WALL COVERING OR WRITABLE WALL SURFACE LOCATIONS.
D. PROVIDE WALL REINFORCEMENT AT ALL WALL MOUNTED ITEMS.
E. ANY EXPOSED CABINET EDGE SHALL BE FINISHED EDGE TO MATCH ADJACENT CABINET FINISH.
F. SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
GB-18	10 2800 - GRAB BAR; 18 INCHES
GB-36	10 2800 - GRAB BAR; 36 INCHES
GB-42	10 2800 - GRAB BAR; 42 INCHES
HK-1	10 2800 - COAT/ROBE HOOK, SINGLE PRONG
MIR-10	10 2800 - MIRROR; ANGLE FRAMED
MT-3	09 3000 - TILE TRIM
PLAM-1	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PLAM-3	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PTD-1	10 2800 - PAPER TOWEL DISPENSER; C-FOLD
RB-1	09 6500 - RESILIENT BASE
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP
T-1	09 3000 - TILE
T-2	09 3000 - TILE
TP-2	10 2800 - TOILET PAPER DISPENSER; DOUBLE ROLL
WD SHTG-32F	06 1000 - 3/4" SHEATHING, FIRE RETARDANT TREATED
WDP-1	06 4200 - WOOD PANELING
WDT-1	06 2000 - WOOD TRIM

KEYNOTES - INTERIOR ELEV.

NO	NOTE	REV.
1	WALL MOUNTED TV O.F.C.I. SEE ELEVATIONS FOR MOUTING HEIGHT; PROVIDE BLOCKING	
2	PROVIDE BLOCKING FOR WALL MOUNTED OBJECT	
3	FLOOR DRAIN; SEE MECHANICAL. PROVIDE ZERO SLOPE	
4	3- MECHANICAL EXHAUST FROM RANGE HOOD. SEE MECHICANICAL	

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LICENSED ARCHITECT — KATELYN CRIDER — (2867) — 10/21/2025 — STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **A212**
ENLARGED PLANS AND ELEVATIONS

10/21/2025 1:40:52 PM

GENERAL NOTES - INTERIOR ELEVATIONS

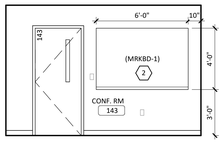
A. REFER TO A620 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
B. **ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.**
C. PROVIDE LEVEL '5' DRYWALL FINISH AT ALL APPLIED GRAPHICS, WALL COVERING OR WRITABLE WALL SURFACE LOCATIONS.
D. PROVIDE WALL REINFORCEMENT AT ALL WALL MOUNTED ITEMS.
E. ANY EXPOSED CABINET EDGE SHALL BE FINISHED EDGE TO MATCH ADJACENT CABINET FINISH.
F. SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

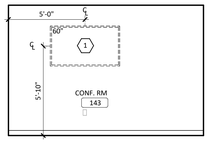
SPEC ID	SPEC SECTION & DESCRIPTION
MRKBD-1	10 1100 - MARKER BOARD, PORCELAIN, MAGNETIC
PLAM-1	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PLAM-2	12 3600 - PLASTIC LAMINATE COUNTERTOP
PTD-1	10 2800 - PAPER TOWEL DISPENSER; C-FOLD
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP

KEYNOTES - INTERIOR ELEV.

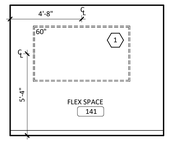
NO	NOTE	REV.
1	WALL MOUNTED TV O.F.C.I. SEE ELEVATIONS FOR MOUTING HEIGHT; PROVIDE BLOCKING	
2	PROVIDE BLOCKING FOR WALL MOUNTED OBJECT	
3	FLOOR DRAIN; SEE MECHANICAL. PROVIDE ZERO SLOPE	
4	3- MECHANICAL EXHAUST FROM RANGE HOOD. SEE MECHCANICAL	



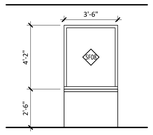
5E A213 CONF. RM 143 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



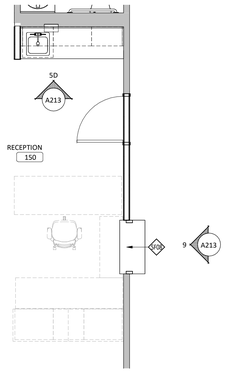
4E A213 CONF. RM 143 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



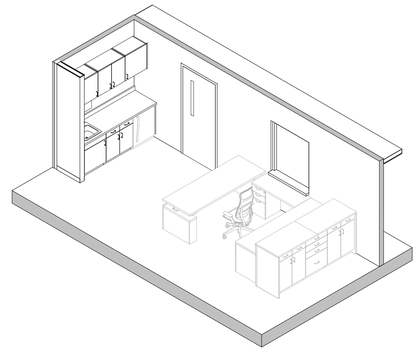
3E A213 FLEX SPACE 141 - WEST ELEVATION
SCALE: 1/4" = 1'-0"



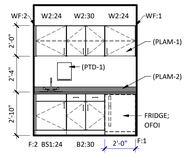
9 A213 STATE'S ATTORNEY - SERVICE WINDOW
SCALE: 1/4" = 1'-0"



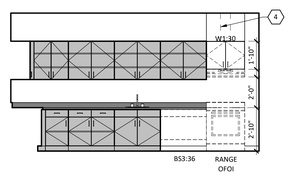
4D A213 ENLARGED STATE ATTORNEY RECEPTION
SCALE: 1/4" = 1'-0"



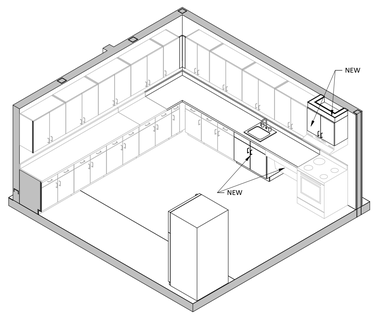
STATE'S ATTORNEY - AXON



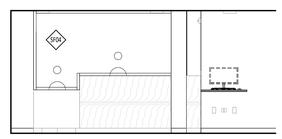
5D A213 STATE'S ATTORNEY COFFEE CTR
SCALE: 1/4" = 1'-0"



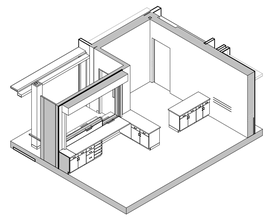
3C A213 NDSU EXTENSION - WEST ELEVATION
SCALE: 1/4" = 1'-0"



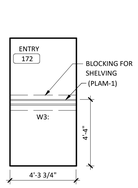
NDSU EXTENSION - AXON



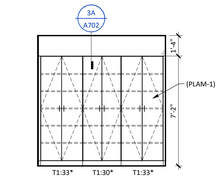
3B A213 CLERK OF COURT - SERVICE WINDOW
SCALE: 1/4" = 1'-0"



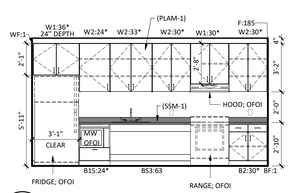
COUNTY CLERK - RECEPTION AXON



3A A213 JURY ROOM ENTRY SHELF
SCALE: 1/4" = 1'-0"



2A A213 JURY ROOM STORAGE
SCALE: 1/4" = 1'-0"



1A A213 JURY ROOM KITCHENETTE
SCALE: 1/4" = 1'-0"

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LICENSED ARCHITECT
KATELYN CRIDER
(2867)
10/21/2025
STATE OF NORTH DAKOTA

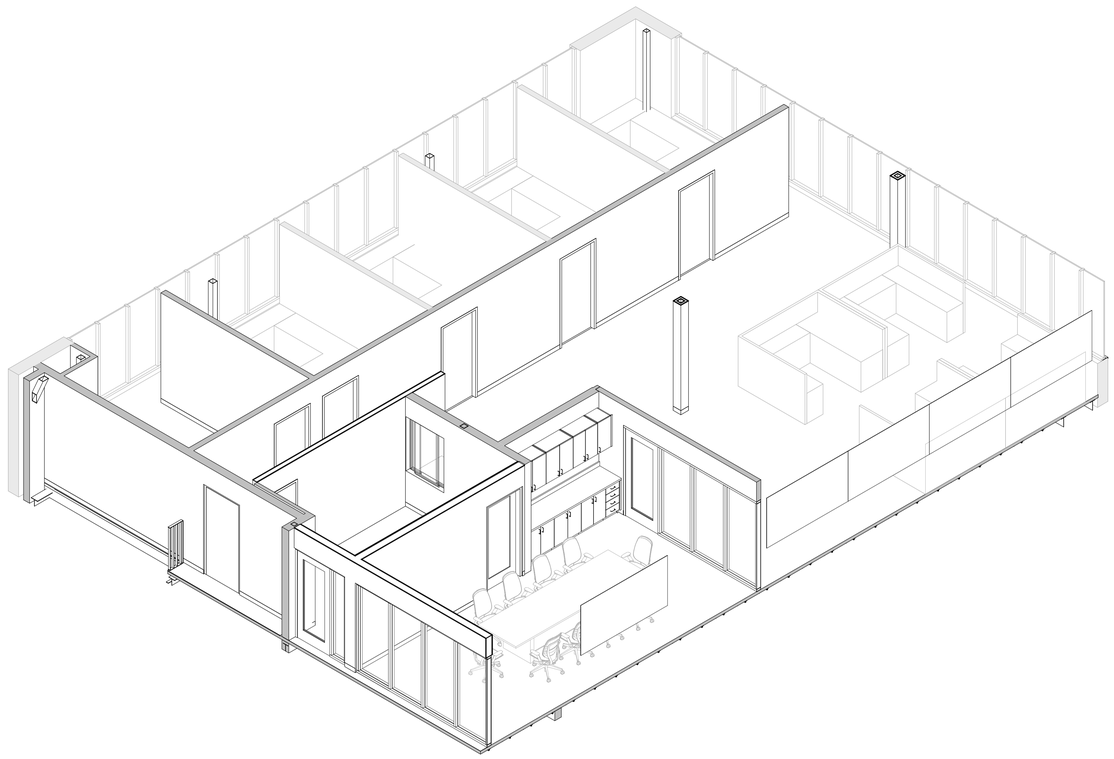
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A213
ENLARGED PLANS AND ELEVATIONS

10/21/2025 1:40:59 PM



COMMUNITY DEVELOPMENT SUITE - AXON

GENERAL NOTES - INTERIOR ELEVATIONS

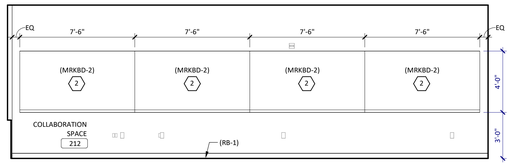
A. REFER TO A620 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
B. **ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.**
C. PROVIDE LEVEL '5' DRYWALL FINISH AT ALL APPLIED GRAPHICS, WALL COVERING OR WRITABLE WALL SURFACE LOCATIONS.
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F. SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

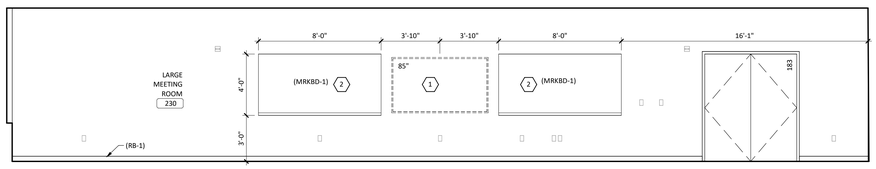
SPEC ID	SPEC SECTION & DESCRIPTION
MRKBD-1	10 1100 - MARKER BOARD, PORCELAIN, MAGNETIC
MRKBD-2	10 1100 - MARKER BOARD, GLASS, MAGNETIC
PLAM-1	06 4100 - PLASTIC LAMINATE FACED CASEWORK
PLAM-2	12 3600 - PLASTIC LAMINATE COUNTERTOP
PT-1	09 9123 - PAINT
PTD-1	10 2800 - PAPER TOWEL DISPENSER; C-FOLD
RB-1	09 6500 - RESILIENT BASE
SECURITY GL-1	08 8800 - LAMINATED AND POLYCARBONATE SECURITY GLAZING
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP

KEYNOTES - INTERIOR ELEV.

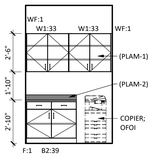
NO	NOTE	REV.
1	WALL MOUNTED TV O.F.C.I. SEE ELEVATIONS FOR MOUTING HEIGHT; PROVIDE BLOCKING	
2	PROVIDE BLOCKING FOR WALL MOUNTED OBJECT	
3	FLOOR DRAIN; SEE MECHANICAL. PROVIDE ZERO SLOPE	
4	3- MECHANICAL EXHAUST FROM RANGE HOOD. SEE MECHCANICAL	



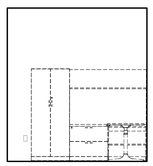
3D A215 COLLABORATION SPACE 212 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



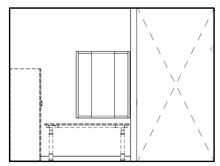
7C A215 TRAINING ROOM
SCALE: 1/4" = 1'-0"



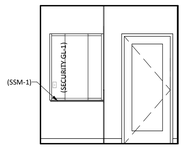
4C A215 HUMAN SERVICES WORK COUNTER
SCALE: 1/4" = 1'-0"



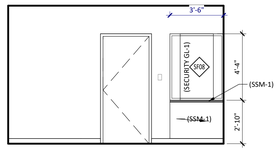
3C A215 WORKSTATION 79 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



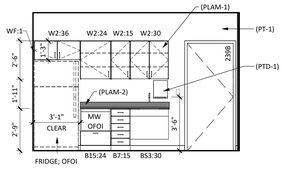
2C A215 WORKSTATION 79 - SERVICE WINDOW
SCALE: 1/4" = 1'-0"



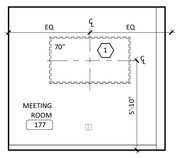
7B A215 HUMAN SERVICES SERVICE WINDOW - OFFICE SIDE
SCALE: 1/4" = 1'-0"



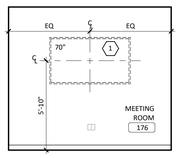
6B A215 HUMAN SERVICES SERVICE WINDOW - LOBBY
SCALE: 1/4" = 1'-0"



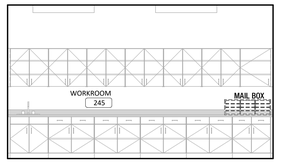
5B A215 HUMAN SERVICES - KITCHENETTE
SCALE: 1/4" = 1'-0"



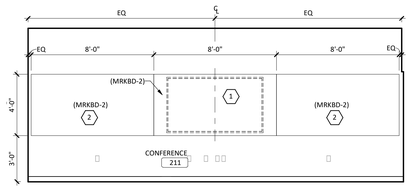
4B A215 MEETING ROOM 177
SCALE: 1/4" = 1'-0"



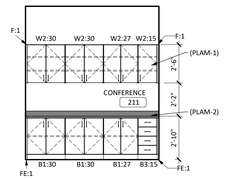
3B A215 MEETING ROOM 176
SCALE: 1/4" = 1'-0"



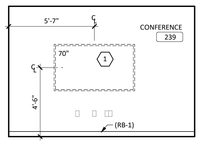
2B A215 WORK ROOM - EXISTING WEST ELEVATION
SCALE: 1/4" = 1'-0"



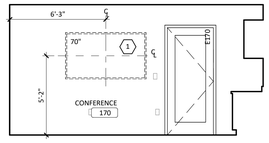
7A A215 CONFERENCE ROOM 211- NORTH ELEVATION
SCALE: 1/4" = 1'-0"



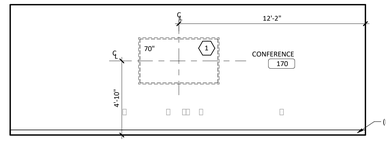
6A A215 CONFERENCE ROOM 211
SCALE: 1/4" = 1'-0"



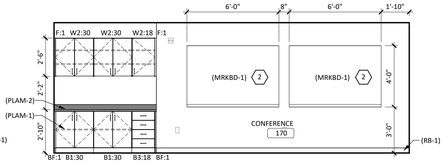
5A A215 CONFERENCE ROOM 239 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



4A A215 CONFERENCE ROOM 170 EAST ELEVATION
SCALE: 1/4" = 1'-0"



3A A215 CONFERENCE ROOM 170 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2A A215 CONFERENCE ROOM 170 - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

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LICENSED ARCHITECT KATELYN CRIDER (2867) 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

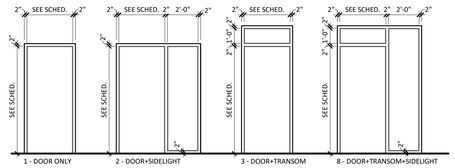
NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE **10/21/2025**
PHASE CONSTRUCTION DOCUMENTS
PROJECT **24146**
SHEET **A215**
INTERIOR ELEVATIONS - ALTERNATE 1

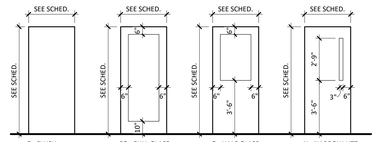
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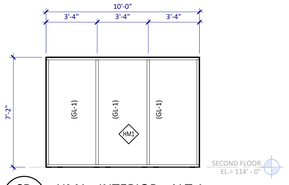
FRAME TYPES



NOTE: "A" SUFFIX INDICATES 4" HEAD
NOTE: FRAME THICKNESS IS TYPICAL FOR HM DOORS, VERIFY FRAME THICKNESS WITH DETAILS

DOOR TYPES





6D / A220 HM1 - INTERIOR - ALT.1
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

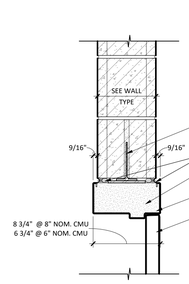
NUMBER	HW SET	RATING	ROOM NAME	PANEL SIZE (*) = UNEQUAL PANELS WIDTH	HEIGHT	THK	PANEL INFO DOOR TYPE	MAT'L	FINISH	GLZ	FRAME INFO FRAME TYPE	MAT'L	FINISH	GLZ	DETAIL INFO JAMB	HEAD	SILL	NOTES COMMENTS	REV.
FIRST FLOOR																			
101E.1	38.2	--	NORTH HALLWAY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	8	HM	PT-7	GL-1					
101E.2	33.1	--	COURT LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	8	HM	PT-7	GL-1	2A/A220	2B/A220	--		
101E.4	5.0	--	HALLWAY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	2A/A220	2B/A220	--		
101F		--	COURT LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	AL	PREFIN	INSUL GL-1	SF13	AL	PREFIN	INSUL GL-1					
107	19.0	--	WOMEN RESTROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
108	19.0	--	MEN RESTROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
109A	368.0	--	VESTIBULE	6' - 0"	7' - 0"	1 3/4"	FG-FG	AL	PREFIN	INSUL GL-1	CW02	AL	PREFIN	INSUL GL-1					
109B	269.0	--	COURT LOBBY	6' - 0"	7' - 0"	1 3/4"	FG-FG	AL	PREFIN	GL-1	CW03	AL	PREFIN	GL-1					
141	5.0	--	FLEX SPACE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		
142	5.0	--	OFFICE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	5B/A220	6B/A220	--		
143	3.0	--	CONF. RM	3' - 0"	7' - 0"	1 3/4"	N	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		
150	18.1	--	RECEPTION	3' - 0"	7' - 0"	1 3/4"	N	WD	PREFIN	GL-1	1	HM	PT-7	--					
152	5.0	--	OFFICE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		
154	5.0	--	OFFICE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		
155	5.0	--	OFFICE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		
158	18.3	--	HALLWAY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--					
159	18.2	--	HALLWAY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
160	12.1	--	RESTROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
161	15.0	--	JUDGE'S CHAMBER	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
161A	1.2	--	JUDGE'S CHAMBER	4' - 0"	7' - 0"	1 3/4"	F-F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
161B.1	15.0	--	EXIT	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--					
161B.2	118.0	--	EXIT	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--					
162	48.0	--	COURT LOBBY	6' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	3	AL	PREFIN	GL-1	2A/A220	2B/A220	--		
162A	14.1	--	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
162B	14.1	--	A.V. STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
162C	38.1	--	COURTS HALLWAY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
163B			HALLWAY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1A	HM	--	--	--	--	--	NEW DOOR HARDWARE ONLY	
164B	E18.0		HALL	3' - 0"	7' - 0"	1 3/4"	N	WD	PREFIN	--	1	HM	--	--	--	--	--	NEW DOOR HARDWARE ONLY	
165	18.2		JUDGE (HEARING)	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	--	--	--	--	--	NEW DOOR HARDWARE ONLY	
165A	18.2	--	JUDGE (HEARING)	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--					
166	18.1	--	SALLY PORT	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1A	HM	PT-7	--	3A/A220	3B/A220	--		
170	13.3	--	CONFERENCE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--					
171	1.0	--	COURTS HALLWAY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--					
172	18.0	--	ENTRY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
174	12.0	--	ENTRY	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
175	12.0	--	RESTROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
176	1.0	--	MEETING ROOM	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	2A/A220	2B/A220	--		
177	1.0	--	MEETING ROOM	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	2A/A220	2B/A220	--		
187	E1.0		MECH OR STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1A	HM	--	--	--	--	--	NEW DOOR HARDWARE ONLY	
189A	11.0	--	HOLDING ROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	PREFIN	GL-1	1A	HM	PT-7	--	3A/A220	3B/A220	--		

DOOR SCHEDULE - ALTERNATE 1

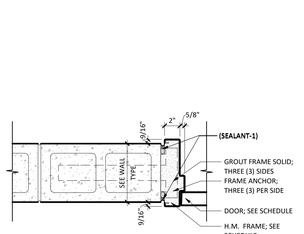
NUMBER	HW SET	RATING	ROOM NAME	PANEL SIZE (*) = UNEQUAL PANELS WIDTH	HEIGHT	THK	PANEL INFO DOOR TYPE	MAT'L	FINISH	GLZ	FRAME INFO FRAME TYPE	MAT'L	FINISH	GLZ	DETAIL INFO JAMB	HEAD	SILL	NOTES COMMENTS	REV.
SECOND FLOOR																			
210A	11.0	--	LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	SF-10	AL	PREFIN		3D/A302	2D/A302	--		
210B	18.0	--	HALL	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
211A	1.0	--	LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		
211B	18.1	--	CONFERENCE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	SF05	AL	PREFIN	GL-1	3D/A302	2D/A302	--		
230A	31.0	--	LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	SF09	AL	PREFIN	GL-1	3D/A302	2D/A302	--		
230B	31.0	--	LARGE MEETING ROOM	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	SF10	AL	PREFIN	GL-1	3D/A302	2D/A302	--		
231	1.1	--	LARGE MEETING ROOM	6' - 0"	7' - 0"	1 3/4"	F-F	WD	PREFIN	--	1	HM	PT-7	--	5B/A220	6B/A220	--		
238A	11.1	--	LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	SF07	AL	PREFIN	GL-1	3D/A302	2D/A302	--		
238B	18.0	--	HUMAN SERVICES	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
239A	3.0	--	LOBBY	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	2A/A220	2B/A220	--		
239B	18.0	--	HUMAN SERVICES	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
240	3.0	--	CONFERENCE	3' - 0"	7' - 0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-7	--	2A/A220	2B/A220	--		
243	5.0	--	OFFICE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	2A/A220	2B/A220	--		
244	5.0	--	HUMAN SERVICES	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	2A/A220	2B/A220	--		
245	5.0	--	WORKROOM	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	--	--	--	EXISTING DOOR FRAME TO REMAIN	
246	5.0	--	OFFICE	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	2	HM	PT-7	GL-1	5B/A220	6B/A220	--		
247	1.0	--	HUMAN SERVICES	3' - 0"	7' - 0"	1 3/4"	FG	WD	PREFIN	GL-1	1	HM	PT-7	--	5B/A220	6B/A220	--		

SHEET SPEC ID LIST

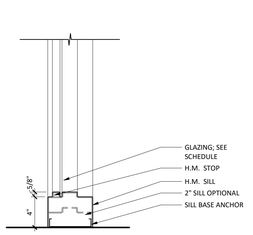
SPEC ID	SPEC SECTION & DESCRIPTION
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
GL-1	08 8000 - 1/4 INCH GLASS
GYP BD-1	09 2116 - 5/8" TYPE X GYPSUM BOARD
MAS ACC-5	04 2000 - CAVITY MORTAR CONTROL MESH
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
TWF-1	04 2000 - RUBBERIZED ASPHALT FLASHING WITH STAINLESS STEEL DRIP
WD SHTG-32F	06 1000 - 3/4" SHEATHING, FIRE RETARDANT TREATED
WDP-1	06 4200 - WOOD PANELING



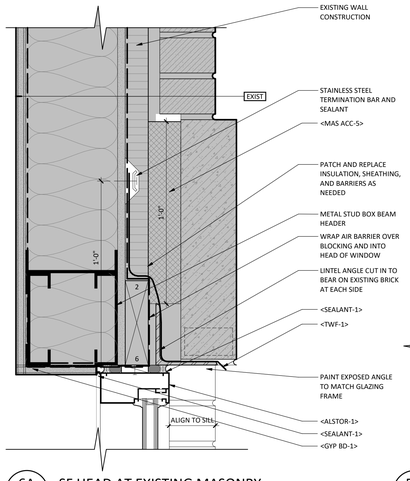
3C / A220 H.M. HEAD AT MASONRY OPTION 2
SCALE: 1 1/2" = 1'-0"



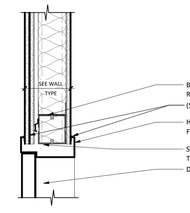
2C / A220 H.M. JAMB AT MASONRY OPTION 2
SCALE: 1 1/2" = 1'-0"



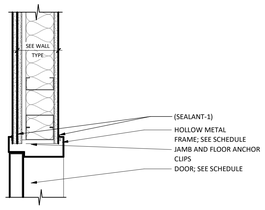
1C / A220 H.M. SILL AT SIDELITE
SCALE: 1 1/2" = 1'-0"



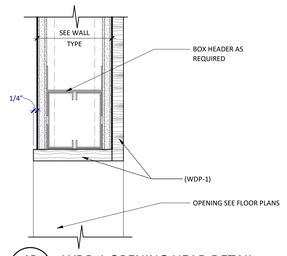
6A / A220 SF HEAD AT EXISTING MASONRY
NOT TO SCALE



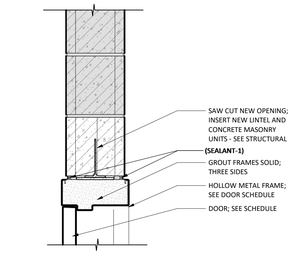
6B / A220 H.M. HEAD AT A6.R
SCALE: 1 1/2" = 1'-0"



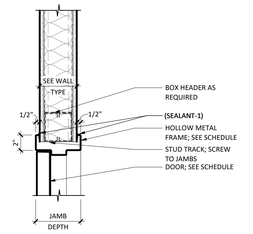
5B / A220 H.M. JAMB AT A6.R
SCALE: 1 1/2" = 1'-0"



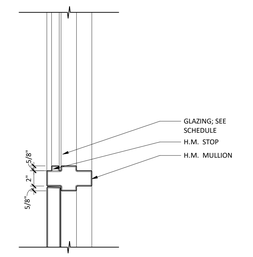
4B / A220 WDP-1 OPENING HEAD DETAIL
SCALE: 3" = 1'-0"



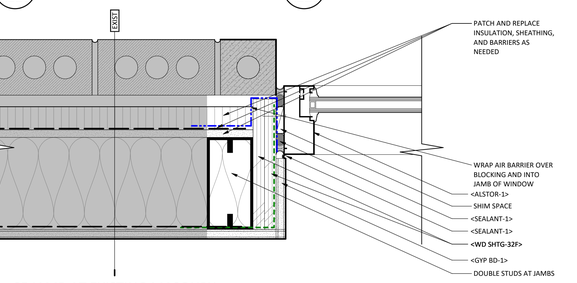
3B / A220 H.M. HEAD AT EXISTING CMU
SCALE: 1 1/2" = 1'-0"



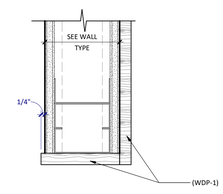
2B / A220 H.M. HEAD AT GYPSUM BOARD
SCALE: 1 1/2" = 1'-0"



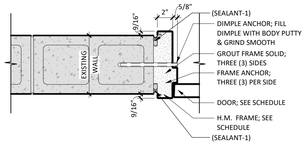
1B / A220 H.M. MULLION AT TRANSOM
SCALE: 1 1/2" = 1'-0"



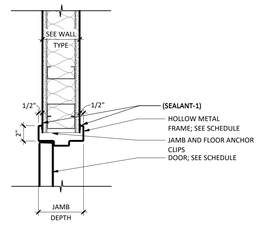
5A / A220 SF JAMB AT EXISTING MASONRY
SCALE: 3" = 1'-0"



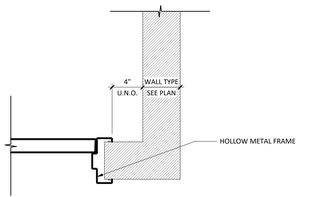
4A / A220 WDP-1 OPENING JAMB DETAIL
SCALE: 3" = 1'-0"



3A / A220 H.M. JAMB AT EXISTING CMU
SCALE: 1 1/2" = 1'-0"



2A / A220 H.M. JAMB AT GYPSUM BOARD
SCALE: 1 1/2" = 1'-0"



1A / A220 DOOR LOCATION PLAN - TYP
SCALE: 1 1/2" = 1'-0"

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LICENSED ARCHITECT — KATELYN CRIDER — (2867) — 10/21/2025 — STATE OF NORTH DAKOTA

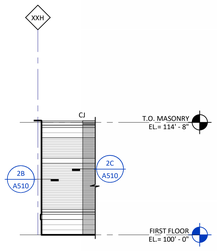
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

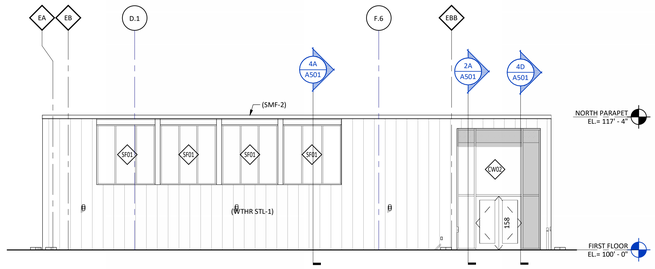
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A220
DOOR SCHEDULE & FRAME TYPES

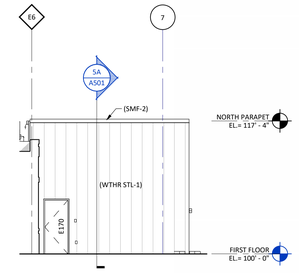
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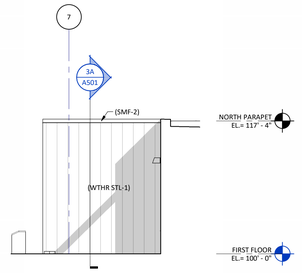
7E A301 WEST ELEVATION - WINDOW INFILL
SCALE: 1/8" = 1'-0"



5E A301 EAST ELEVATION
SCALE: 1/8" = 1'-0"



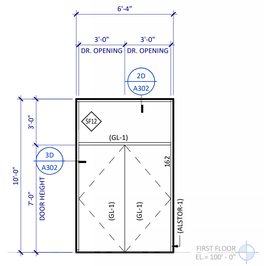
3E A301 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



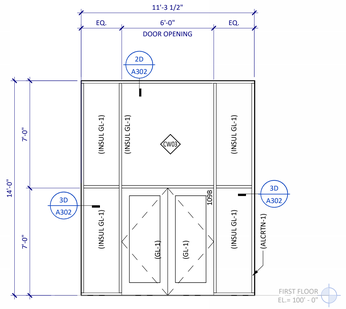
2E A301 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
ALCRTN-1	08 4313 - ALUMINUM CURATIN WALL
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
GL-1	08 8000 - 1/4 INCH GLASS
INSUL GL-1	08 8000 - CLEAR INSULATED GLAZING
INSUL GL-40	08 8000 - INSULATED SPANDREL GLASS
SEC GL-1	08 8000 - LAMINATED SECURITY GLAZING
SMF-2	07 6200 - WEATHERING STEEL
WTHR STL-1	07 4213 - WEATHERED STEEL PANEL

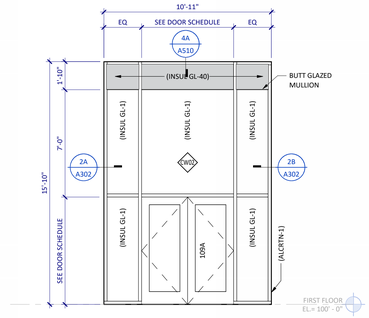
KEYNOTES - EXTERIOR ELEV.		
NO	NOTE	REV.



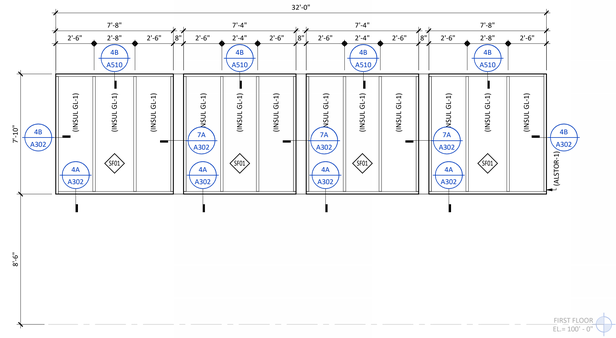
7D A301 SF012 - INTERIOR
SCALE: 1/4" = 1'-0"



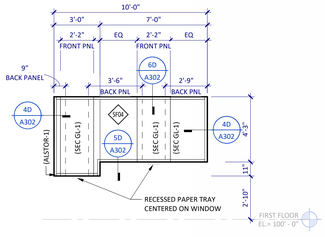
5D A301 CW03 - INTERIOR
SCALE: 1/4" = 1'-0"



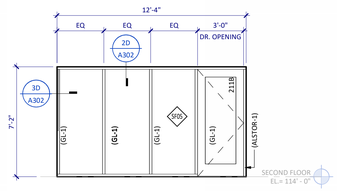
4D A301 CW02 - EXTERIOR
SCALE: 1/4" = 1'-0"



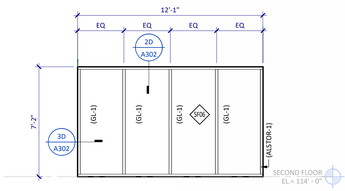
3D A301 SF01 - EXTERIOR
SCALE: 1/4" = 1'-0"



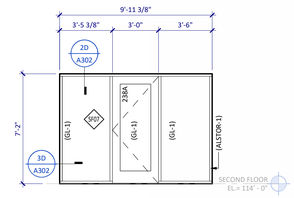
5C A301 SF04 - INTERIOR
SCALE: 1/4" = 1'-0"



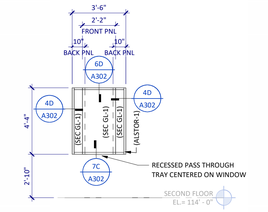
4C A301 SF05 - INTERIOR - ALT. 1
SCALE: 1/4" = 1'-0"



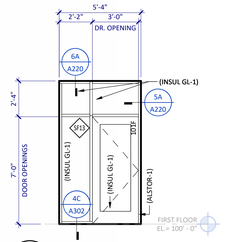
3C A301 SF06 - INTERIOR - ALT. 1
SCALE: 1/4" = 1'-0"



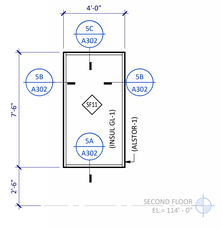
2C A301 SF07 - INTERIOR - ALT. 1
SCALE: 1/4" = 1'-0"



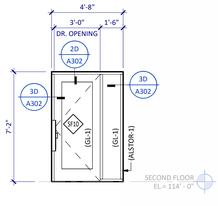
1C A301 SF08 - INTERIOR - ALT. 1
SCALE: 1/4" = 1'-0"



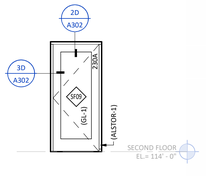
4B A301 SF13 - EXTERIOR
SCALE: 1/4" = 1'-0"



3B A301 SF11 - EXTERIOR - ALT. 1
SCALE: 1/4" = 1'-0"



2B A301 SF10 - INTERIOR - ALT. 1
SCALE: 1/4" = 1'-0"



1B A301 SF09 - INTERIOR - ALT.1
SCALE: 1/4" = 1'-0"

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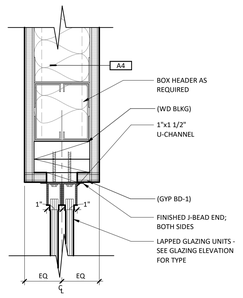
LICENSED ARCHITECT
KATELYN CRIDER
(2867)
10/21/2025
STATE OF NORTH DAKOTA

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

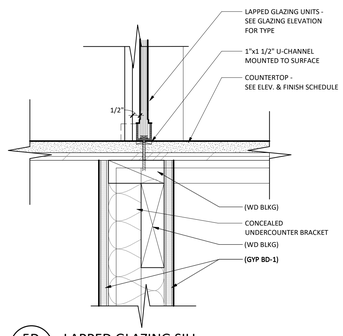
DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A301
EXTERIOR ELEVATIONS & GLAZING ELEVATIONS

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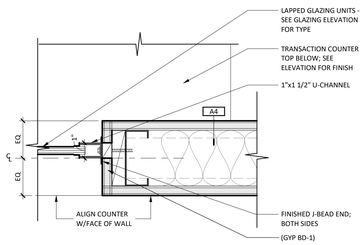
6D / A302 LAPPED GLAZING HEAD

SCALE: 3" = 1'-0"



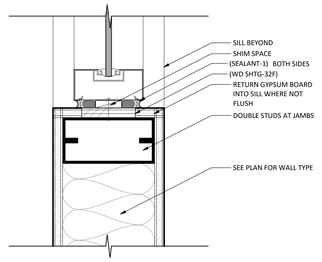
5D / A302 LAPPED GLAZING SILL

SCALE: 3" = 1'-0"



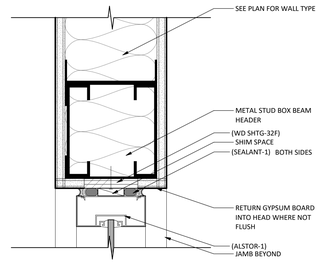
4D / A302 LAPPED GLAZING JAMB

SCALE: 3" = 1'-0"



3D / A302 STORE FRONT JAMB DETAIL AT GYP

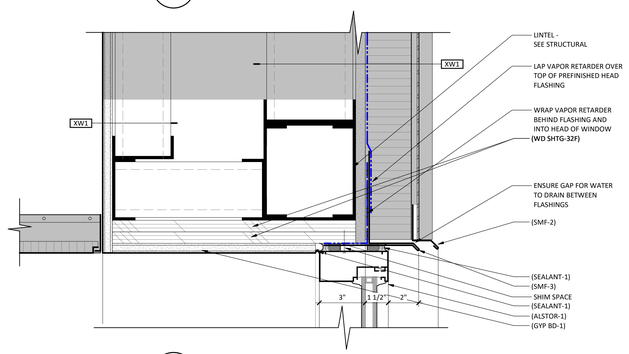
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2D / A302 STORE FRONT HEAD DETAIL AT GYP

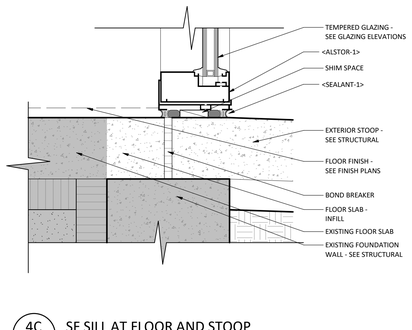
SCALE: 3" = 1'-0"

SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
ALCRTN-1	08 4313 - ALUMINUM CURATIN WALL
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
BAL PNL-1	10 2641 - LAMINATED FIBER BALLISTICS-RESISTANT PANEL
DTRAY-1	
GYP BD-1	09 2116 - 5/8" TYPE X GYPSUM BOARD
MET STUD-2	09 2116 - NON-LOADBEARING METAL STUDS, 20 GA.
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
SMF-2	07 6200 - WEATHERING STEEL
SMF-3	07 6200 - STAINLESS STEEL
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP
WD BLKG	06 1000 - WOOD BLOCKING
WD SHTG-30	06 1000 - 1/2" SHEATHING
WD SHTG-32F	06 1000 - 3/4" SHEATHING, FIRE RETARDANT TREATED
WDP-1	06 4200 - WOOD PANELING



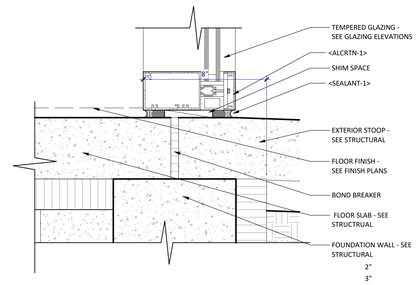
5C / A302 SF HEAD AT EXISTING CORTEN AND METAL STUD BACKUP

SCALE: 3" = 1'-0"



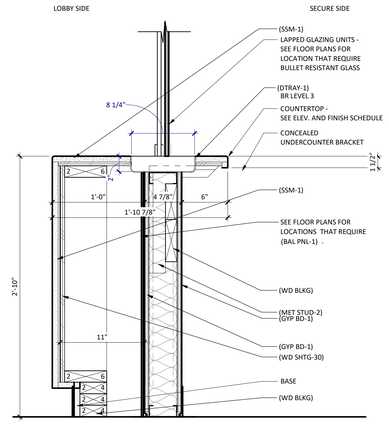
4C / A302 SF SILL AT FLOOR AND STOOP

SCALE: 3" = 1'-0"



2C / A302 CW SILL AT FLOOR AND STOOP

SCALE: 3" = 1'-0"

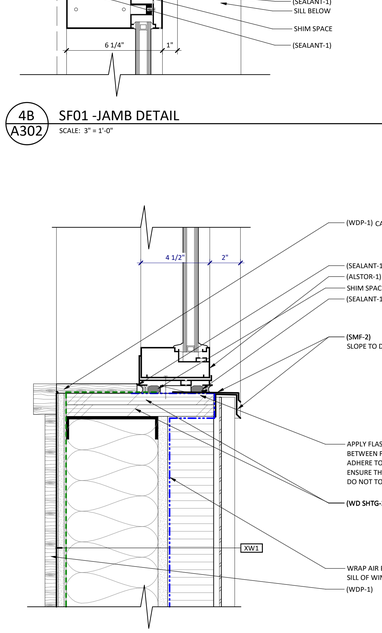


7C / A302 RECEPTION WINDOW - SECTION DETAIL

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

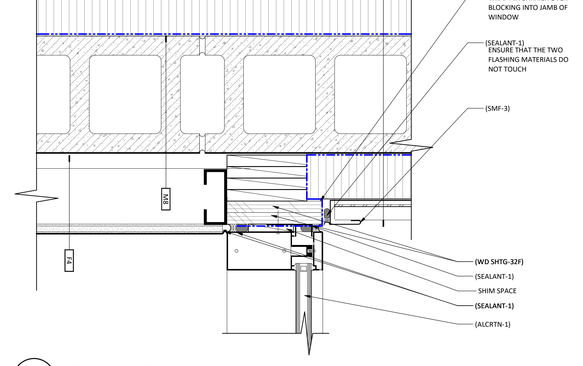
5B / A302 SF JAMB AT EXISTING CORTEN AND METAL STUD BACKUP

SCALE: 3" = 1'-0"



4B / A302 SF01 -JAMB DETAIL

SCALE: 3" = 1'-0"

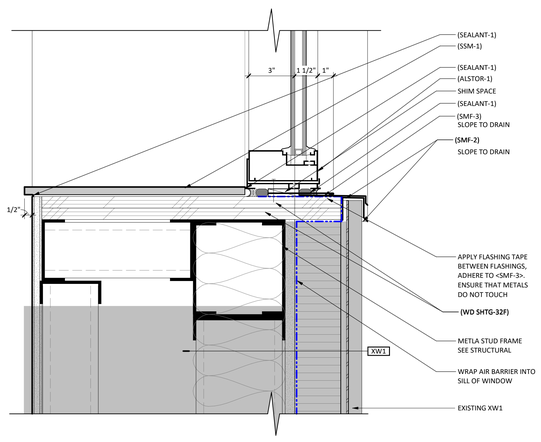


2B / A302 SF02 JAMB AT XW2

SCALE: 3" = 1'-0"

7A / A302 STOREFRONT JAMB AT INTERMEDIATE COLUMN

SCALE: 3" = 1'-0"

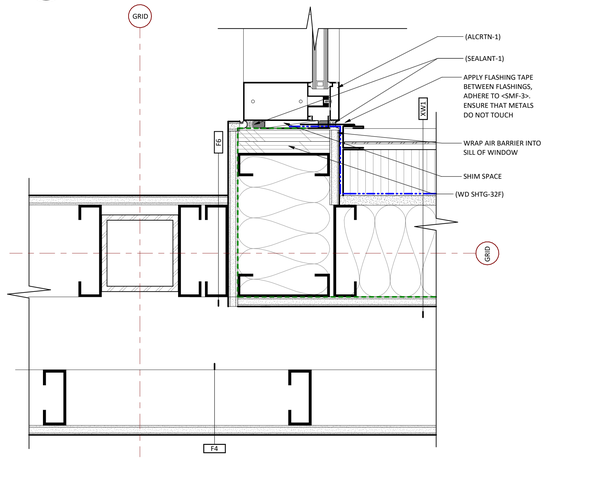


5A / A302 SF SILL AT EXISTING CORTEN AND METAL STUD BACKUP

SCALE: 3" = 1'-0"

4A / A302 SF01 SILL

SCALE: 3" = 1'-0"



2A / A302 SF02 JAMB AT XW1

SCALE: 3" = 1'-0"

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NO.	DESCRIPTION	DATE

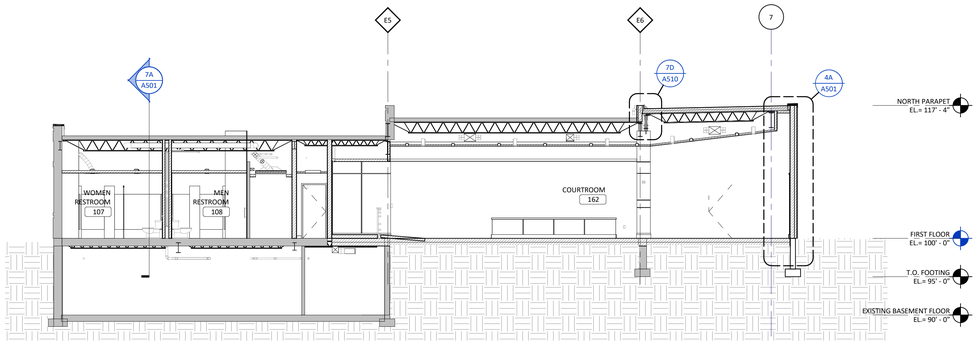
DUNN COUNTY
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MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A302

GLAZING DETAILS

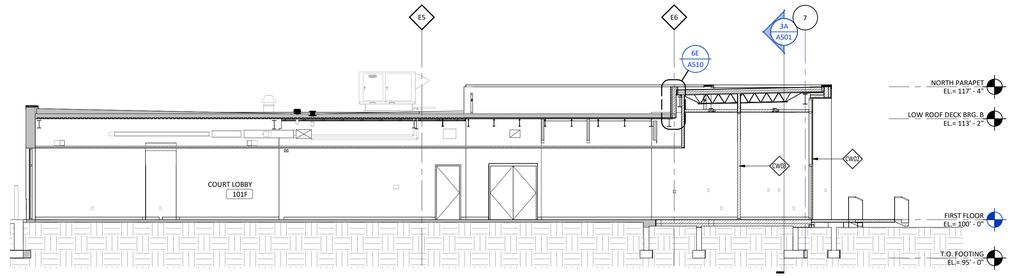
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SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
WDP-1	06 4200 - WOOD PANELING



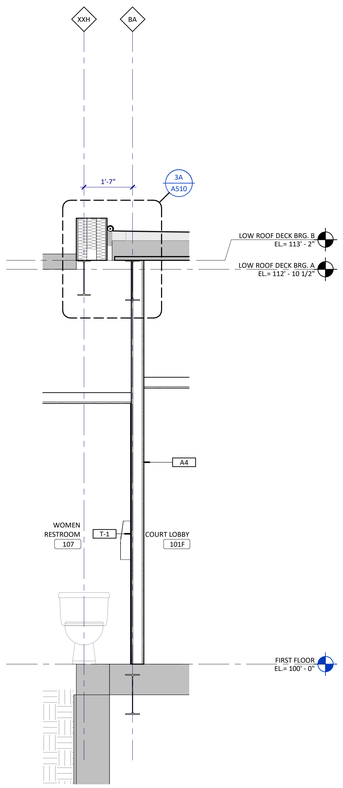
4E A501 E/W BUILDING SECTION - COURTROOM

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



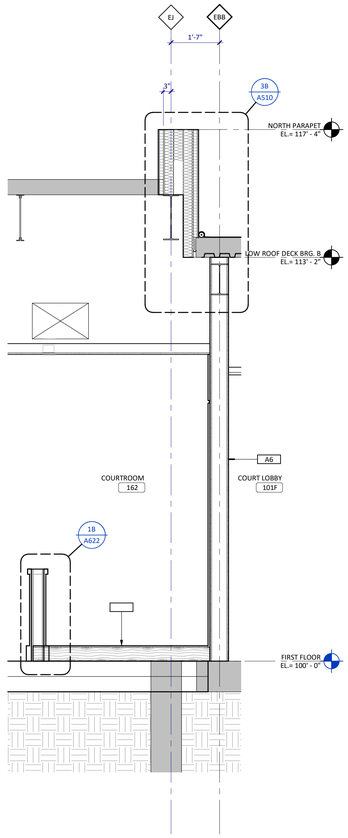
4D A501 E/W BUILDING SECTION - COURT LOBBY

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



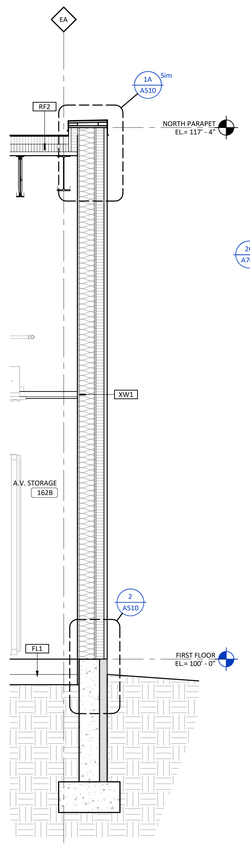
7A A501 WALL SECTION AT EXISTING ROOF

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



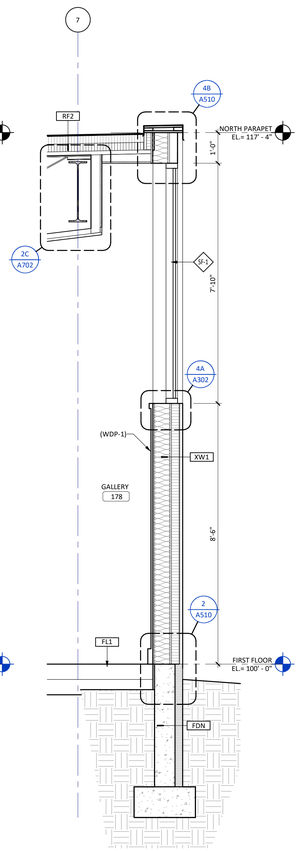
6A A501 WALL SECTION AT JURY

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



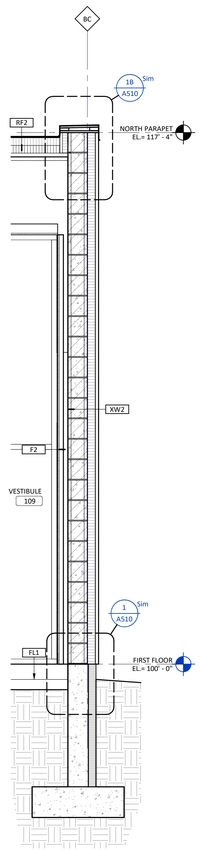
5A A501 WALL SECTION AT AV

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



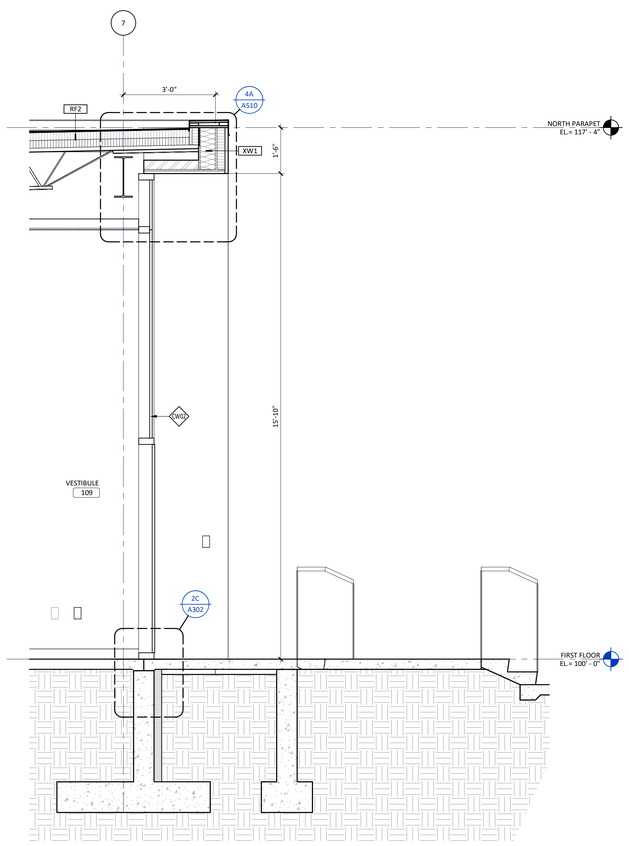
4A A501 WALL SECTION AT GALLERY

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



3A A501 WALL SECTION AT VESTIBULE N/S

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



2A A501 WALL SECTION AT VESTIBULE E/W

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

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REVISION SCHEDULE		
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DUNN COUNTY
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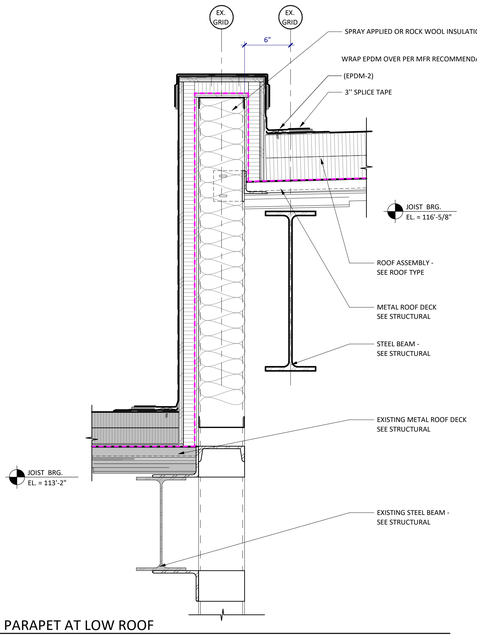
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CONSTRUCTION DOCUMENTS

PROJECT
24146

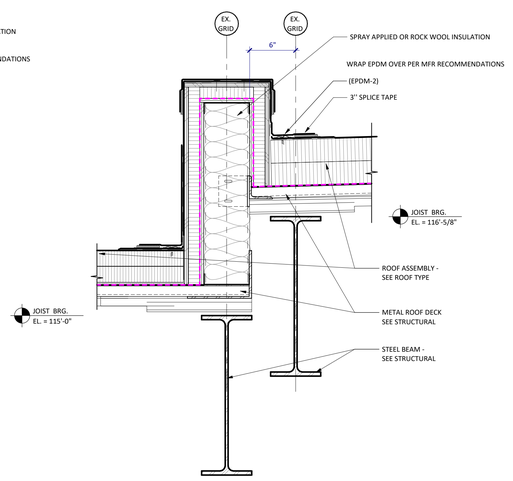
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A501

WALL & BUILDING SECTIONS

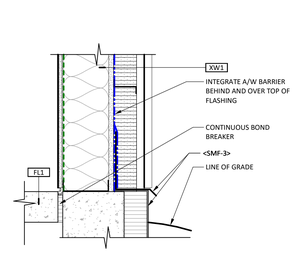
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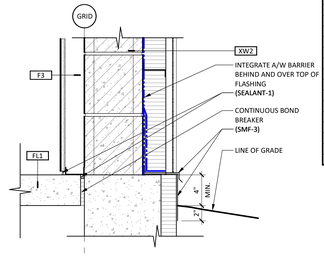
7D A510 PARAPET AT LOW ROOF
SCALE: 1 1/2" = 1'-0"



6E A510 PARAPET AT HIGH ROOF
SCALE: 1 1/2" = 1'-0"



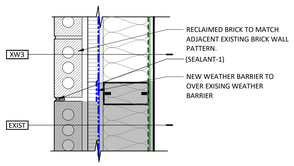
2 A510 FDN DETAIL @ XW1 SLAB ON GRADE.
SCALE: 1 1/2" = 1'-0"



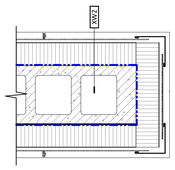
1 A510 FDN DETAIL @ XW2 SLAB ON GRADE
SCALE: 1 1/2" = 1'-0"

SHEET SPEC ID LIST

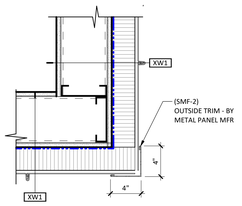
SPEC ID	SPEC SECTION & DESCRIPTION
ALCRTN-1	08 4313 - ALUMINUM CURATIN WALL
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
EPDM-2	07 5300 - FULLY ADHERED EPDM ROOFING SYSTEM
FUR-5	09 2116 - FIBERGLASS CLIP WITH Z-GIRT
GYP SHTG-2	09 2116 - 5/8" GLASS MAT FACED GYPSUM SHEATHING
INSUL-2	07 2100 - XPS EXTRUDED POLYSTYRENE INSULATION
INSUL-25	07 2100 - FOIL FACED FIBER BOARD
INSUL-26	07 2100 - MINERAL FIBER BOARD INSULATION
INSUL-36	07 2119 - CLOSED CELL SPRAY FOAM INSULATION
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
SMF-2	07 6200 - WEATHERING STEEL
SMF-3	07 6200 - STAINLESS STEEL
WD BLKG	06 1000 - WOOD BLOCKING
WD SHTG-31	06 1000 - 5/8" SHEATHING
WD SHTG-32F	06 1000 - 3/4" SHEATHING, FIRE RETARDANT TREATED
WTHR STL-2	07 4213 - SOFFIT PANELS



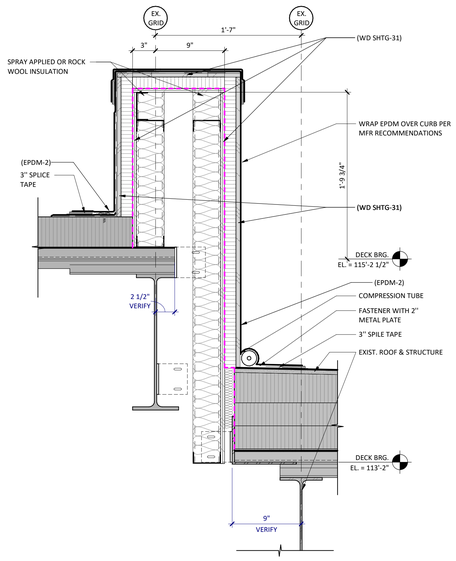
2C A510 XW3 INFILL AT EXISTING BRICK
SCALE: 1 1/2" = 1'-0"



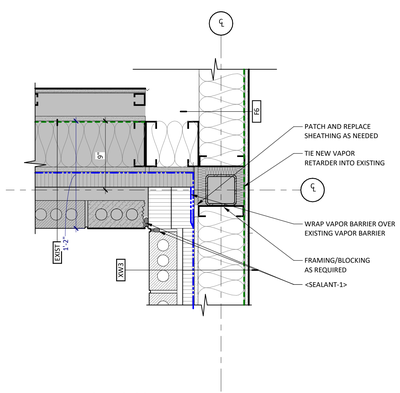
1C A510 XW2 CORNER
SCALE: 1 1/2" = 1'-0"



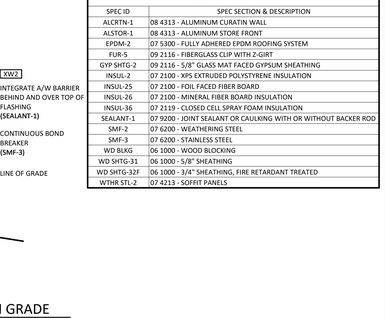
3C A510 OUTSIDE CORNER AT XW1
SCALE: 1 1/2" = 1'-0"



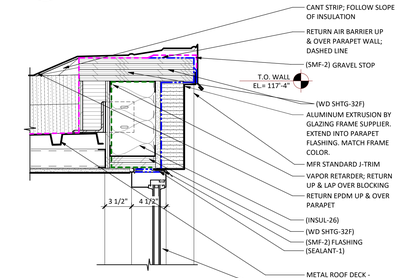
3B A510 ROOF EXPANSION JOINT AT GRID EBB
SCALE: 1 1/2" = 1'-0"



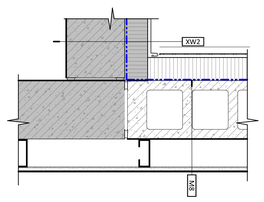
2B A510 BRICK INFILL AT EXISTING CORNER
SCALE: 1 1/2" = 1'-0"



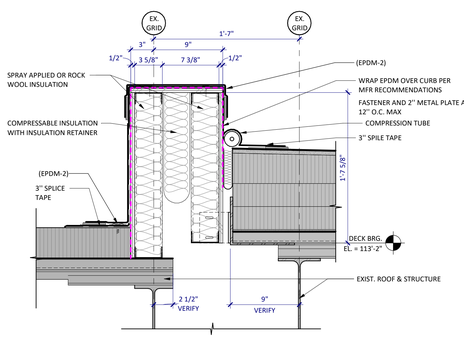
1B A510 GRAVEL STOP DETAIL @ XW2
SCALE: 1 1/2" = 1'-0"



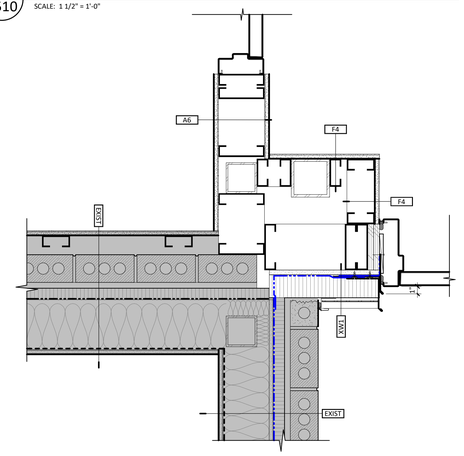
4B A510 SF1 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



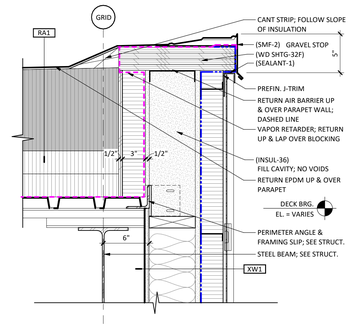
5B A510 XW2 CONNECTION TO EXISTING XW2
SCALE: 1 1/2" = 1'-0"



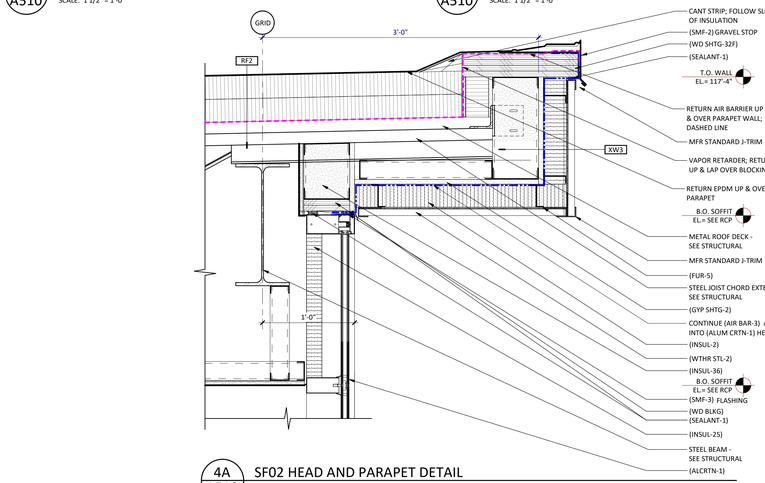
3A A510 ROOF CURB EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



2A A510 XW1 INSIDE CORNER AT EXIST BRICK
SCALE: 1 1/2" = 1'-0"



1A A510 GRAVEL STOP DETAIL @ XW1
SCALE: 1 1/2" = 1'-0"



4A A510 SF02 HEAD AND PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"

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LICENSED ARCHITECT KATELYN CRIDER (2867) 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

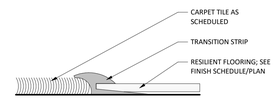
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A510
EXTERIOR DETAILS

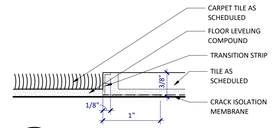
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REP CONTACT LIST			
LINE	REP	EMAIL	PHONE NUMBER
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SHERWIN WILLIAMS	BERGEVIN, JAMES	JAMES.R.BERGEVIN@SHERWIN.COM	(612) 720-9934
SWF CONTRACT	JOHNSON, HUNTER	HUNTER.JOHNSON@SPRINGSWINDOWFASHIONS.COM	(952) 847-0714
TARKETT	MALTZEN, KIRSTEN	KIRSTEN.MALTZEN@TARKETT.COM	(612) 500-2635
WILSONART	STENDE, LYNETTE	LYNETTE.STENDE@WILSONART.COM	(612) 500-6020

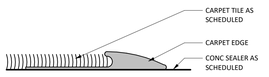
PRODUCT CODE	MANUFACTURER	PRODUCT	COLOR	DESCRIPTION	REMARKS
DIVISION 06 - WOOD, PLASTIC AND COMPONENTS					
FINISH CARPENTRY/ PANELING (06 2000)					
WDT-1 (WOOD TRIM)	-	PLAIN SAWN MAPLE	STAIN MATCH TO WOOD DOORS	SATIN FINISH CLEAR COAT	-
ARCHITECTURAL WOOD CASEWORK (06 4100)					
WDV-1 (WOOD VENEER CASEWORK)	-	PLAIN SAWN MAPLE	STAIN MATCH TO WOOD DOORS	SATIN FINISH CLEAR COAT	-
PLAM-1 (PLASTIC LAMINATE)	NEVAMAR	HIGH PRESSURE LAMINATE	SIREN MAPLE	FINISH: TEXTURED	-
PLAM-3 (PLASTIC LAMINATE)	WILSONART	HIGH PRESSURE LAMINATE	CANYON ZEPHYR 4842	FINISH: MATTE 60	SINK ENCLOSURES AT RESTROOM
WOOD PANELING (06 4200)					
WDP-1 (WOOD PANELING)	-	PLAIN SAWN MAPLE	STAIN MATCH TO WOOD DOORS	SATIN FINISH CLEAR COAT	-
FIBERGLASS REINFORCED PANELS (06 8316)					
FRP-1 (FIBERGLASS REINFORCED PANELS)	MARLITE	STANDARD FRP	P100 WHITE	SIZE: 4 X 8 FINISH: PEBBLED	USE WHITE PVC TRIM AS REQ'D
DIVISION 08 - OPENINGS					
FLUSH WOOD DOORS (08 1416)					
INTERIOR WOOD DOORS	MASONITE ARCHITECTURAL	ASPIRO SERIES	WHITE MAPLE, CARAMEL	PLAIN SLICED	-
DIVISION 09 - FINISHES					
TILING (09 3000)					
T-1 (TILE)	DALTILE	PORTFOLIO	COTTO PF10	SIZE: 12 X 24 GROUT: LATICRETE 35 MOCHA	-
T-2 (TILE)	CERAMIC TILEWORKS	BRYSTONE	GREY	SIZE: 12 X 24 GROUT: LATICRETE	-
MT-1 (METAL TRIM)	SCHLUTER	RONDEC	SATIN ANODIZED ALUMINUM	ALL EXPOSED TILE EDGES	INCLUDE ALL CORNER PIECES
MT-2 (METAL TRIM)	SCHLUTER	SCHIENE	SATIN ANODIZED ALUMINUM	TILE TO CPT TRANSITIONS	-
MT-3 (METAL TRIM)	SCHLUTER	DILEX-AHK	SATIN ANODIZED ALUMINUM	WALL TILE TO FLOOR TILE COVE TRANSITION	INCLUDE ALL CORNER PIECES
ACOUSTICAL TILE CEILING (09 5100)					
ACT-1 (ACOUSTICAL CEILING TILE)	ARMSTRONG	OPTIMA TEGULAR	WHITE	SIZE: 24 X 24 GRID SIZE: 9/16"	0.95 NRC
ACT-2 (ACOUSTICAL CEILING TILE)	ARMSTRONG	OPTIMA TEGULAR	WHITE	SIZE: 24 X 72 GRID SIZE: 9/16"	0.95 NRC
RESILIENT FLOORING (09 6500)					
LVT-1 (LUXURY VINYL TILE)	PATCRAFT	MEANING PLANK I446V	RESPOND 00750	SIZE: 13 X 26	INSTALL: BRICK
LVT-2 (LUXURY VINYL TILE)	PATCRAFT	CHARTED	PUNCTUATE 00630	SIZE: 24 X 24	PATCH IN TO MATCH EXISTING USING OWNER ATTIC STOCK
RESILIENT BASE & ACCESSORIES (09 6500)					
RB-1 (RESILIENT BASE)	TARKETT	RUBBER WALL BASE	MOON ROCK 29	4" HIGH	COVE PROFILE
FLOORING TRANSITION	TARKETT	SEE SPECIFICATIONS	MOON ROCK 29	LVT TO CPT TRANSITION	-
FLOORING TRANSITION	TARKETT	SEE SPECIFICATIONS	MOON ROCK 29	CPT TO CONC TRANSITION	-
STAIR ACCESSORIES	TARKETT	SEE SPECIFICATIONS	MOON ROCK 29	STAIR NOSINGS	-
TILE CARPET (09 6813)					
CPT-1 (CARPET TILE)	MANNINGTON	SEATTLE	LAURELHURST 12333	SIZE: 18 X 36	INSTALL: BRICK HORIZONTAL
CPT-2 (CARPET TILE)	MOHAWK GROUP	DRIFTED GROUND	CLASSIC RIDGE 358	SIZE: 12 X 36	INSTALL: HALFLAP
CPT-3 (CARPET TILE)	MOHAWK GROUP	DRIFTED GROUND	PERFECT PATHS 751	SIZE: 12 X 36	INSTALL: HALFLAP
CPT-10 (WALK-OFF CARPET TILE)	J+J FLOORING GROUP	INCOGNITO	CRYPTIC 1845	SIZE: 24 X 24	INSTALL: MONOLITHIC
WALLCOVERINGS (09 7200)					
WC-1 (WALLCOVERING)	KOROSEAL	DIGITAL PRINT	CUSTOM IMAGE BY ARCH.	SATIN SUBSTRATE, WHITE	TYPE III VINYL
INTERIOR PAINTING (09 9123)					
PT-1 (PAINT)	SHERWIN WILLIAMS	-	GREEK VILLA SW 7551	MATCH EXISTING FINISH	-
PT-4 (PAINT)	SHERWIN WILLIAMS	-	DOWNING SLATE SW 2819	MATCH EXISTING FINISH	-
PT-7 (PAINT)	SHERWIN WILLIAMS	-	BLACK MAGIC SW 6991	MATCH EXISTING FINISH	-
STAINING AND TRANSPARENT FINISHING (09 9300)					
ST-1 (STAIN)	SHERWIN WILLIAMS	WOOD CLASSICS	MATCH WOOD DOORS	SEE SPECIFICATIONS	-
DIVISION 10 - SPECIALTY EQUIPMENT					
VISUAL DISPLAY BOARDS (10 1101)					
MRKBD-1 (MARKER BOARD)	AARCO	PORCELAIN MAGNETIC WHITEBOARD	ALUMINUM FRAME, WHITE	SIZE: SEE ELEVATIONS	MARKER TRAY
MRKBD-2 (MARKER BOARD)	DEKO	PREMIER MARKERBOARDS	DIAMOND FX, MAGNETIC BACKING	SIZE: SEE ELEVATIONS	SINGLE, Z-CLIP FIT INSTALLATION, STANDARD CROWN CORNERS
PLASTIC TOILET COMPARTMENTS (10 2113.19)					
COMP-1	ASI GLOBAL PARTITIONS	SOLID PLASTIC (HDPE)	METALLIC SILVER 9511	FINISH: HAMMERED	OVERHEAD BRACED
WALL AND DOOR PROTECTION (10 2600)					
CG-1 (CORNER GUARDS)	INPRO	160 HIGH IMPACT	FEATHER 0238	SIZE: 48" HIGH, 2" WING	CONTINUOUS ALUMINUM RETAINER
DIVISION 12 - FURNISHINGS					
WINDOW SHADES (12 2400)					
WT-1 (WINDOW TREATMENT)	SWF CONTRACT	CROSSHATCH R SERIES	EBONY/LINEN, BRONZE ENCLOSURE	3% OPENNESS, MANUAL	-
WT-2 (WINDOW TREATMENT)	SWF CONTRACT	CROSSHATCH R SERIES	EBONY/LINEN, BRONZE ENCLOSURE	1% OPENNESS, MOTORIZED	LOCATION: COURTROOM
COUNTERTOPS (12 3600)					
PLAM-2 (PLASTIC LAMINATE)	WILSONART	HIGH PRESSURE LAMINATE	BURNISHED CHESTNUT 4796	FINISH: MATTE 60	MATCHING EDGEBANDING
SSM-1 (SOLID SURFACE)	FORMICA	EVERFORM SOLID SURFACE	COPPER QUARTZ 772	1/2" THICK	-



4A/A600 CARPET TO RESILIENT
SCALE: 12" = 1'-0"



3A/A600 CPT TO CER TILE
SCALE: 12" = 1'-0"



1A/A600 CPT TO CONCRETE
SCALE: 12" = 1'-0"

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LICENSED ARCHITECT KATELYN CRIDER (2867) 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

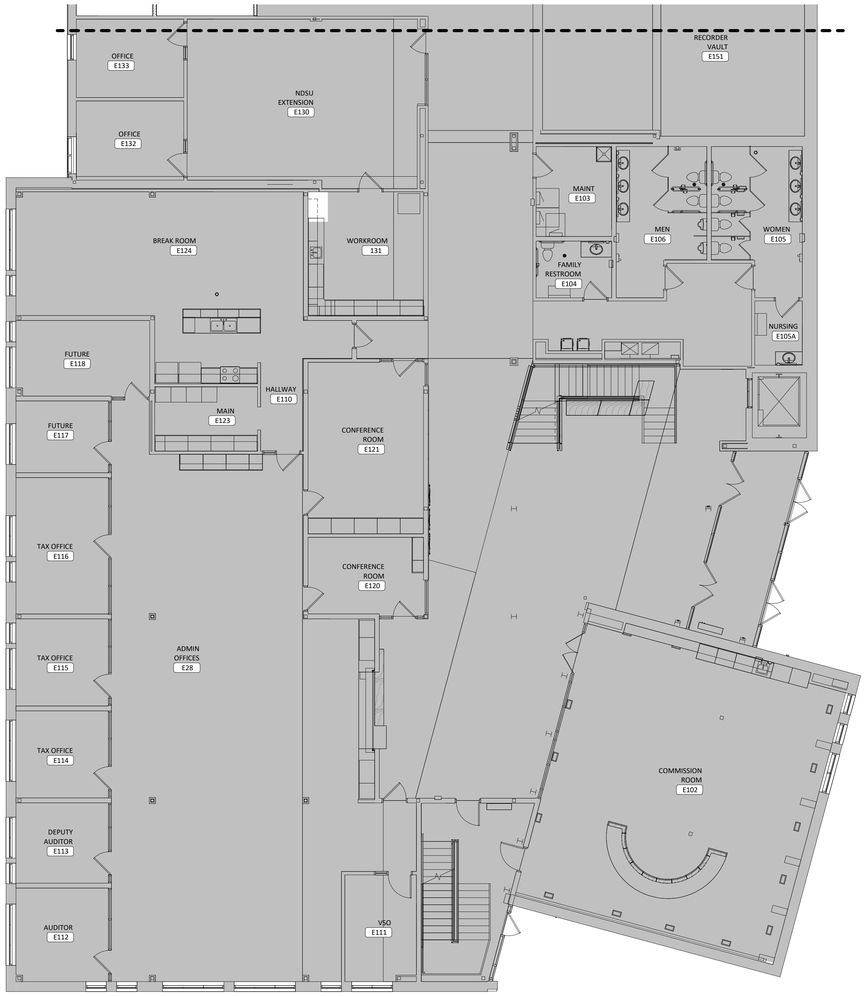
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
A600
FINISH / SPEC INFORMATION

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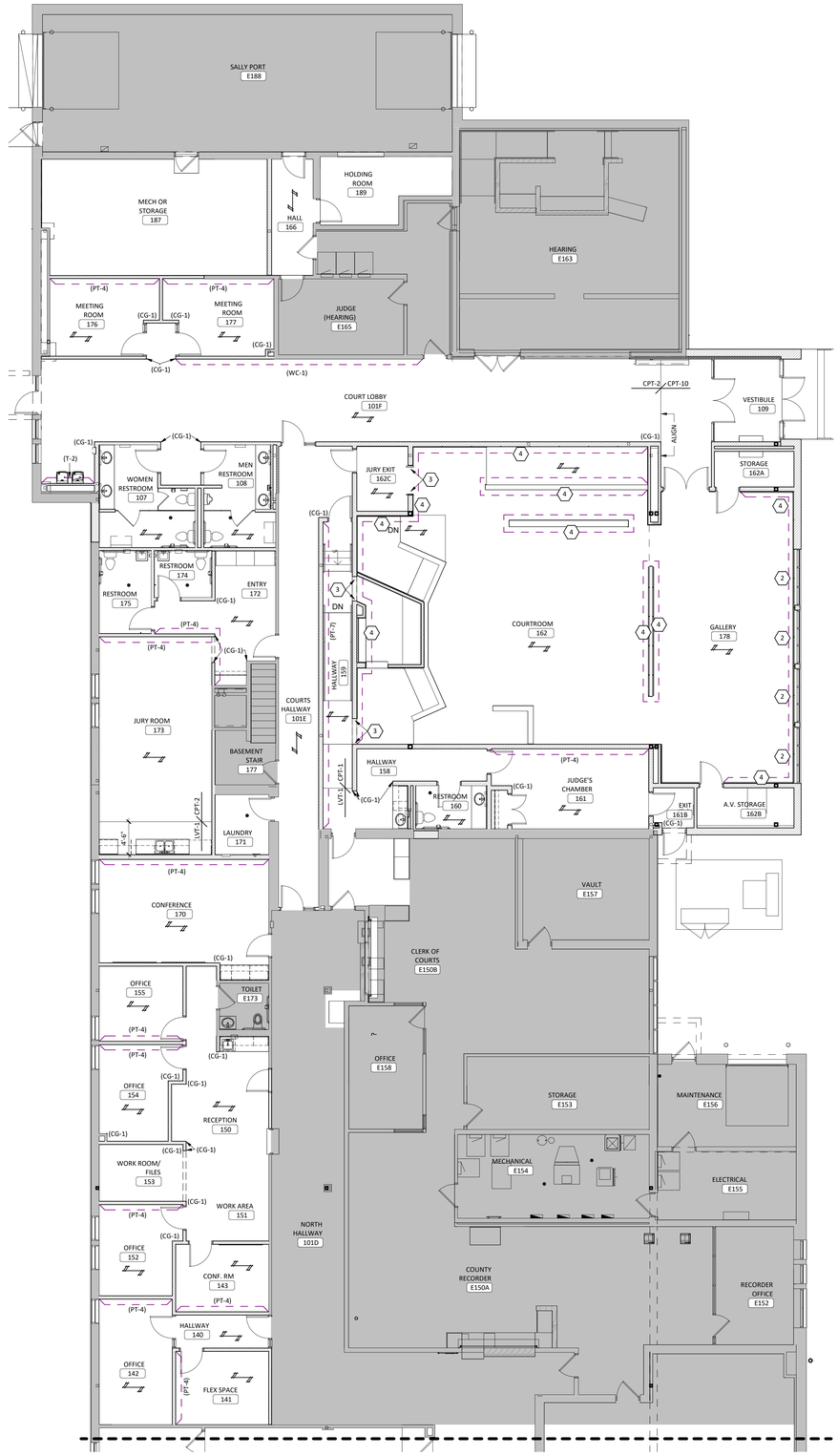
ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	BASE	FLOOR	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CASEWORK	COUNTERS	REMARKS	REV.
101E	COURTS HALLWAY	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
101F	COURT LOBBY	RB-1	CPT-2,10	PT-1 / WC-1	PT-1	PT-1 / T-2	PT-1	--	--	2, 5	
101G	KITCHENETTE	RB-1	LVT-1	--	PT-1	PT-1	PT-1	PLAM-1	SSM-1	5	
107	WOMEN RESTROOM	T-1	T-1	T-2	T-2	T-2	T-2	PLAM-3	SSM-1	2	
108	MEN RESTROOM	T-1	T-1	T-2	T-2	T-2	T-2	PLAM-3	SSM-1	2	
109	VESTIBULE	RB-1	CPT-10	PT-1	--	--	PT-1	--	--		
131	WORKROOM	RB-1	LVT-2	EXST.	PT-1	EXST.	PT-1	PLAM-1	PLAM-2	6	
140	HALLWAY	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
141	FLEX SPACE	RB-1	CPT-3	PT-1	PT-1	PT-1	PT-4	--	--		
142	OFFICE	RB-1	CPT-3	PT-4	PT-1	PT-1	PT-1	--	--		
143	CONF. RM	RB-1	CPT-2	PT-1	PT-1	PT-4	PT-1	--	--		
150	RECEPTION	RB-1	CPT-2	PT-1 / PT-4	PT-1	PT-1 / PT-4	PT-1	PLAM-1	PLAM-2		
151	WORK AREA	RB-1	CPT-2	--	PT-1	PT-1	PT-1	--	--		
152	OFFICE	RB-1	CPT-3	PT-4	PT-1	PT-1	PT-1	--	--		
153	WORK ROOM/ FILES	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
154	OFFICE	RB-1	CPT-3	PT-4	PT-1	PT-1	PT-1	--	--		
155	OFFICE	RB-1	CPT-3	PT-1	PT-1	PT-4	PT-1	--	--		
158	HALLWAY	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1 / PT-7	PLAM-1	SSM-1		
159	HALLWAY	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-7	--	--	1	
160	RESTROOM	T-1	T-1	T-2	T-2	T-2	T-2	PLAM-3	SSM-1	2	
160A	CLOSET	RB-1	CPT-3	PT-1	PT-1	PT-1	PT-1	--	--		
161	JUDGE'S CHAMBER	RB-1	CPT-3	PT-4	PT-1	PT-1	PT-1	--	--		
161B	EXIT	RB-1	CPT-10	PT-1	PT-1	PT-1	PT-1	--	--		
162	COURTROOM	WDT-1	CPT-1	WDP-1	WDP-1 / PT-1	WDP-1 / PT-1	WDP-1	WDV-1	SSM-1	3	
162A	STORAGE	RB-1	CSLR-1	PT-1	PT-1	PT-1	PT-1	--	--		
162B	A.V. STORAGE	RB-1	CSLR-1	PT-1	PT-1	PT-1	PT-1	--	--		
162C	JURY EXIT	RB-1	CPT-1	PT-7	PT-7	PT-7	PT-7	--	--		
166	HALL	EXST.	EXST.	PT-1	PT-1	PT-1	PT-1	--	--		
170	CONFERENCE	RB-1	CPT-2	PT-4	PT-1	PT-1	PT-1	PLAM-1	PLAM-2		
171	LAUNDRY	RB-1	LVT-1	PT-1	PT-1	PT-1 / FRP-1	PT-1	--	--	4	
172	ENTRY	RB-1	CPT-2	PT-1	PT-1	PT-1 / PT-4	PT-1 / PT-4	PLAM-1	--	5	
173	JURY ROOM	RB-1	CPT-2	PT-4	PT-1	PT-1	PT-1	PLAM-1	SSM-1	5	
174	RESTROOM	T-1	T-1	T-2	T-2	T-2	T-2	--	--	2	
175	RESTROOM	T-1	T-1	T-2	T-2	T-2	T-2	--	--	2	
176	MEETING ROOM	RB-1	CPT-3	PT-4	PT-1	PT-1	PT-1	--	--		
177	MEETING ROOM	RB-1	CPT-3	PT-4	PT-1	PT-1	PT-1	--	--		
178	GALLERY	WDT-1	CPT-1	WDP-1 / PT-1	WDP-1 / PT-1	WDP-1 / PT-1	WDP-1 / PT-1	--	--	3	
187	MECH OR STORAGE	RB-1	CSLR-1	PT-1	PT-1	PT-1	PT-1	--	--		
189	HOLDING ROOM	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	--	--		



7A / A601 FIRST FLOOR FINISH PLAN - AREA A

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



4A / A601 FIRST FLOOR FINISH PLAN - AREA B

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

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
CG-1	10 2600 - CORNER GUARD - HIGH IMPACT VINYL
PT-4	09 9123 - PAINT
PT-7	09 9123 - PAINT
T-2	09 3000 - TILE
WC-1	09 7200 - WALL COVERINGS

KEYNOTES - FINISH PLAN

NO	NOTE	REV.
1	WT-1 (MANUAL)	
2	WT-2 (MOTORIZED)	
3	FINISH INSIDE FACES OF OPENING WITH WDP-1	
4	WOOD PANELING; SEE INTERIOR ELEVATIONS	
7	VERIFY EXISTING CONDITIONS ON EXTENTS OF WINDOW TREATMENT REPLACEMENT NEEDS, IF ANY	

GENERAL NOTES - FINISH PLAN

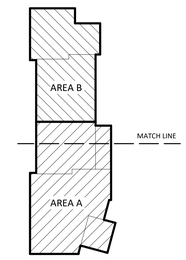
1. PAINT ALL GYPSUM BOARD PT-1 UNLESS NOTED OTHERWISE.
2. PAINT HORIZONTAL AND VERTICAL FACES OF ALL SOFFITS AND BULKHEADS.
3. PROVIDE APPROPRIATE FLOORING TRANSITION TYPES. CENTER UNDER DOOR UNLESS NOTED OTHERWISE.
4. REFERENCE SPECIFICATIONS FOR MATERIALS LISTED IN FINISH SCHEDULE.
5. PAINT EXPOSED STEEL COLUMNS, VFY WITH ARCH COLOR BASED ON LOCATION.
6. NOT ALL CORNER GUARD LOCATIONS MAY BE NOTED. CONTRACTOR TO VERIFY EXISTING QUANTITY ABLE TO BE SALAVIGED FROM DEMOLITION FOR REUSE AND SUBTRACT FROM QUANTITY SHOWN ON THESE PLANS.

FLOORING DIRECTION

FINISH SCHEDULE REMARKS

1. PAINT ALL METAL RAILING SURFACES AT RAMPS PT-7.
2. SCHLUTER SYSTEMS TRIMS. REFERENCE SPECIFICATIONS AND DETAILS.
3. REFERENCE ELEVATIONS FOR EXTENT OF WDT-1 AND WDP-1 AS WELL AS DRYWALL REVEAL PATTERNING AND LOCATIONS.
4. FRP TO BE INSTALLED BEHIND WASHER/DRYER - 48" ABOVE FINISHED FLOOR - WITH ALL APPROPRIATE TRIM PIECES, PAINT ABOVE.
5. REFER TO REFLECTED CEILING PLANS FOR EXTENTS OF VARYING CEILING MATERIALS AND HEIGHTS.
6. PATCH FLOORING ONLY IN THIS SPACE - USE OWNER ATTIC STOCK TO BLEND PRODUCT FROM THE SAME ORDER/DYE LOT.

KEY PLAN



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LICENSED ARCHITECT KATELYN CRIDER (2867) 10/21/2025 STATE OF NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A601
FIRST FLOOR FINISH PLAN

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ROOM FINISH SCHEDULE (ALTERNATE 1)

ROOM				WALLS							
NUMBER	NAME	BASE	FLOOR	NORTH	EAST	SOUTH	WEST	CASEWORK	COUNTERS	REMARKS	REV.
210	LOBBY	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
211	CONFERENCE	RB-1	CPT-2	PT-4	PT-1	PT-1	PT-1	PLAM-1	PLAM-2		
212	COLLABORATION SPACE	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
213	WORKSTATION	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
218	OFFICE	RB-1	CPT-3	PT-1	PT-1	PT-1	PT-4	--	--		
225	HALL	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
230	LARGE MEETING ROOM	RB-1	CPT-1	PT-4	PT-1	PT-1	PT-1	--	--		
231	TABLE/ CHAIR	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	--	--		
238	LOBBY	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	SSM-1		
239	CONFERENCE	RB-1	CPT-2	PT-1	PT-4	PT-1	PT-1	--	--		
240	STORAGE	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	--	--		
241	HUMAN SERVICES	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	PLAM-1	PLAM-2, SSM-1		
243	OFFICE	RB-1	CPT-3	PT-1	PT-1	PT-1	PT-4	--	--		
244	OFFICE	RB-1	CPT-3	PT-1	PT-4	PT-1	PT-1	--	--		
245	WORKROOM	RB-1	CPT-2	PT-1	PT-1	PT-1	PT-1	EXST.	EXST.		
246	OFFICE	RB-1	CPT-3	PT-1	PT-4	PT-1	PT-1	--	--		
247	COMFORT ROOM	RB-1	LVT-1	PT-1	PT-1	PT-4	PT-1	--	--		



5A / A602 SECOND FLOOR FINISH PLAN - AREA A - ALTERNATE 1

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

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
CG-1	10 2600 - CORNER GUARD - HIGH IMPACT VINYL
PT-4	09 9123 - PAINT

KEYNOTES - FINISH PLAN

NO	NOTE	REV.
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2	WT-2 (MOTORIZED)	
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4	WOOD PANELING; SEE INTERIOR ELEVATIONS	
7	VERIFY EXISTING CONDITIONS ON EXTENTS OF WINDOW TREATMENT REPLACEMENT NEEDS, IF ANY	

GENERAL NOTES - FINISH PLAN

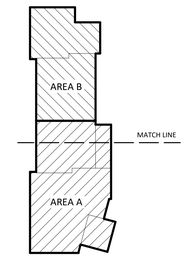
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FLOORING DIRECTION

FINISH SCHEDULE REMARKS

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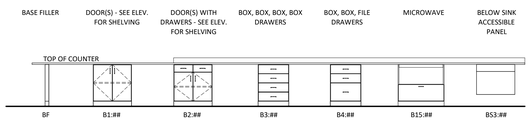
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

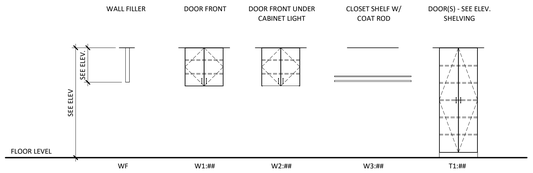
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A602
SECOND FLOOR FINISH PLAN - ALTERNATE 1

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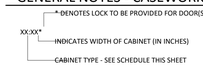
CASEWORK - BASE CABINETS



CASEWORK - WALL CABINETS

SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
WD BLKG	06 1000 - WOOD BLOCKING

GENERAL NOTES - CASEWORK



1. CASEWORK & ARCHITECTURAL WOODWORK CONTRACTOR(S) SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS TO PROPERLY DETERMINE CONTRACTUAL RESPONSIBILITIES.
2. FOR ACTUAL ROOM DIMENSIONS REFER TO FLOOR PLANS. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE FABRICATION.
3. OVERALL LENGTH OF TOPS SHALL BE DETERMINED BY CASEWORK DIMENSIONS AS INDICATED ON PLANS. SUCH LENGTHS SHALL REMAIN CONSTANT REGARDLESS OF SUCCESSFUL BIDDER'S STANDARDS.
4. OVERALL HEIGHT OF BASE CABINET TOPS MUST BE MAINTAINED AS SHOWN ON INTERIOR ELEVATIONS.
5. INSTALLATION OF CASEWORK SHALL BEGIN AT THE HIGH POINT OF THE ROOM WITH ANY LEVELERS IN AS FAR AS POSSIBLE.
6. COUNTERTOPS AND SPLASHES SHALL BE SCRIBED TO MATCH IRREGULARITIES AND CONTOURS OF WALLS.
7. CASEWORK SHALL BE INSTALLED ON TOP OF FINISHED VCT, OR WELDED SHEET FLOORING WHERE THESE FLOOR FINISHES ARE SCHEDULED.
8. PROVIDE FINISHED BACK & END PANELS TO COMPLETE THE ENCLOSURE OF ALL CABINETRY TO WALLS AND ADJACENT CABINETRY.
9. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. PROVIDE EQUAL SIZED FILLERS AT WALLS WHERE CONTINUOUS RUN OF CASEWORK ABUTS TWO WALLS.
11. PROVIDE BRACKET AT ANY COUNTER OR SHELF SPANNING MORE THAN 4'-0" UNSUPPORTED.
12. DOORS IN TALL CABINETS (TYPE 'T' CABINETS) SHALL BE 3/4" THICK.
13. SEE INTERIOR ELEVATIONS FOR LOCKING CONFIGURATIONS AND LOCATIONS.
14. SEE INTERIOR ELEVATIONS FOR ALL FINISHES.
15. PROVIDE GROMMET HOLES AT ALL COUNTERTOPS WITH KNEE SPACE. LOCATE GROMMETED OPENINGS IN FIELD (COORD.. W/MISC. EQUIPMENT) AT 4'-0" O.C. MAX, AND 1 PER COUNTER MIN.
16. BASE FINISH AT CABINETS SHALL BE RESILIENT BASE.
17. INTERIOR FINISH AT OPEN CABINETS WITHOUT DOORS SHALL MATCH THE COLOR, MATERIAL AND FINISH OF ADJACENT CABINET EXTERIORS, U.N.O.
18. CONCEALED CABINET BACKS, DRAWER BODY, AND DRAWER BOTTOMS: 1/2" THICKNESS.
19. DOOR AND DRAWER FACE, WALL AND TALL CABINET TOP AND BOTTOMS, CABINET SIDES, DRAWER SPREADERS, CABINET BACK REAR HANGSTRIPS, STRUCTURAL DIVIDERS, EXPOSED CABINET BACKS, AND SHELVES OF LESS THAN 30 INCH SPACE: 3/4" THICKNESS.
20. SHELVES OVER 30 INCH SPAN AND LIBRARY STACK SHELVING: 1" THICKNESS.

8B A620 COUNTERTOP BACKSPLASH SCRIBE
SCALE: 3" = 1'-0"

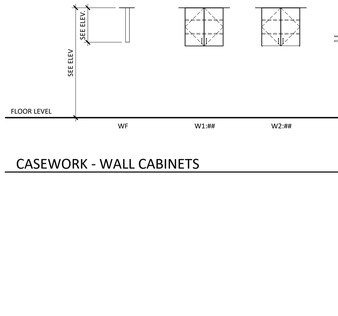
7B A620 COUNTERTOP EDGE
SCALE: 3" = 1'-0"

5A A620 T1 - TALL CAB - DOOR(S)
SCALE: 1" = 1'-0"

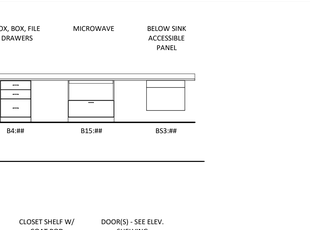
4A A620 B4 - BASE CAB - 2 BOX FILE
SCALE: 1" = 1'-0"

3A A620 B3 - BASE CAB - 4 BOX
SCALE: 1" = 1'-0"

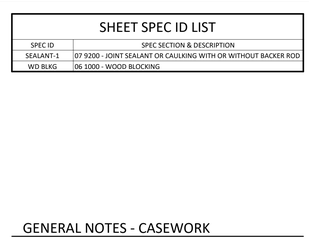
3C A620 W3 - SHELF W/ ROD
SCALE: 1" = 1'-0"



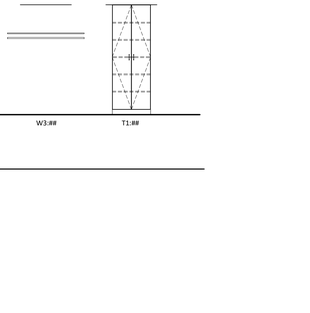
3B A620 B15 - BASE CAB. PULL OUT DRAWER
SCALE: 1" = 1'-0"



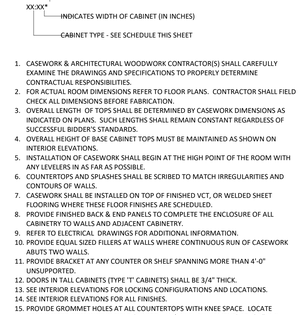
2C A620 W2 - WALL CAB - UNDER LIGHT
SCALE: 1" = 1'-0"



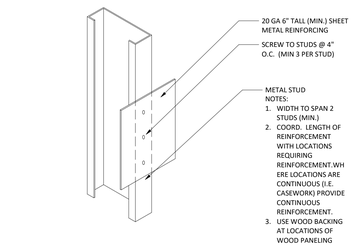
1C A620 W1 - WALL CAB - DOOR FRONT
SCALE: 1" = 1'-0"



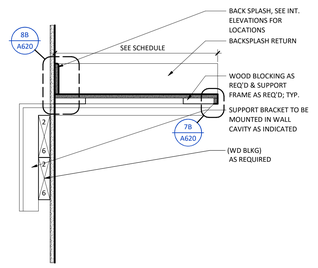
2B A620 BS1 - BELOW SINK CABINET
SCALE: 1" = 1'-0"



1B A620 BS3 - BELOW SINK ACCESSIBLE PANEL
SCALE: 1" = 1'-0"



8A A620 WALL REINFORCEMENT
SCALE: 3" = 1'-0"



7A A620 COUNTERTOP DETAIL
SCALE: 1 1/2" = 1'-0"

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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

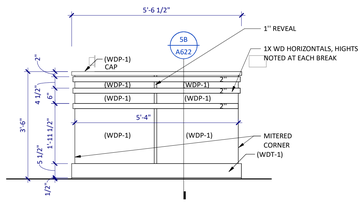
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A620
CASEWORK SCHEDULE

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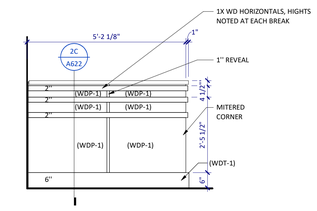
SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
WDP-1	06 4200 - WOOD PANELING
WDT-1	06 2000 - WOOD TRIM



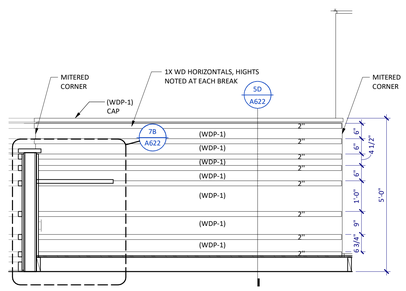
7E A621 COURT ROOM CASEWORK - CLERK DESK NORTH ELEVATION

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



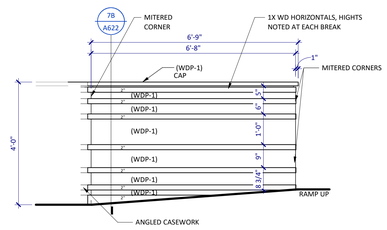
6E A621 COURT ROOM CASEWORK - CLERK DESK EAST ELEVATION

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



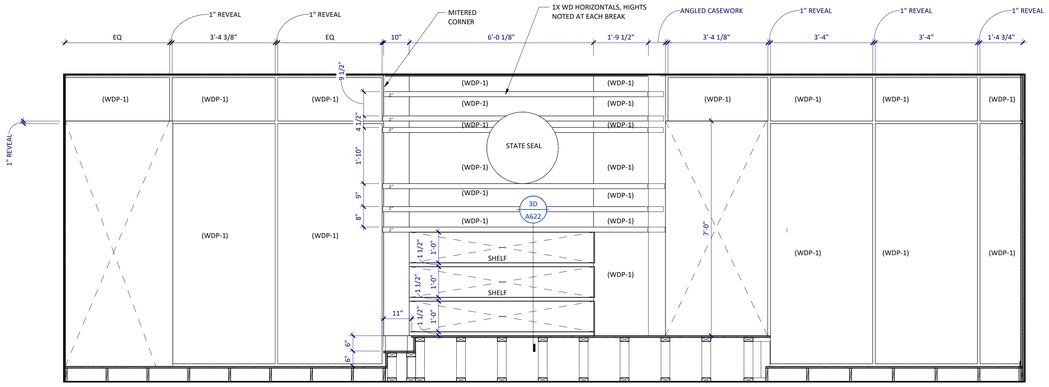
7D A621 COURTROOM CASE WORK - JUDGE DESK NORTH ELEVATION

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



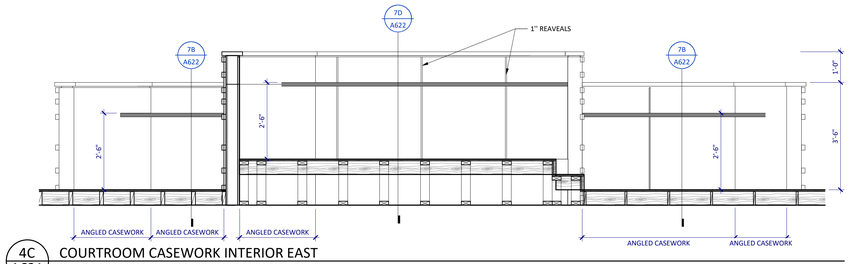
6D A621 COURTROOM CASEWORK - EXTERIOR NORTH

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



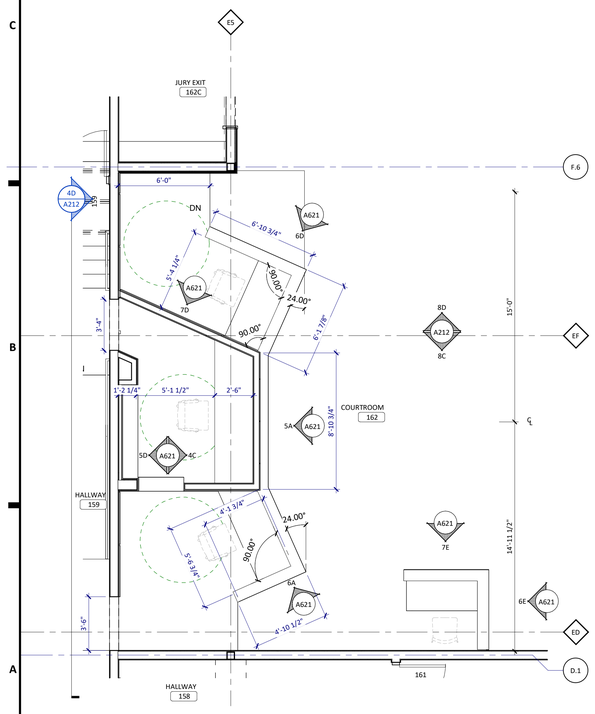
5D A621 COURT ROOM- WEST WALL

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



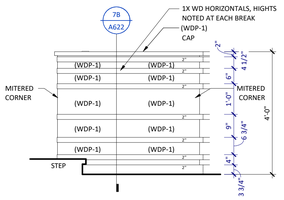
4C A621 COURTROOM CASEWORK INTERIOR EAST

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



7A A621 ENLARGED JUDGE DESK PLAN

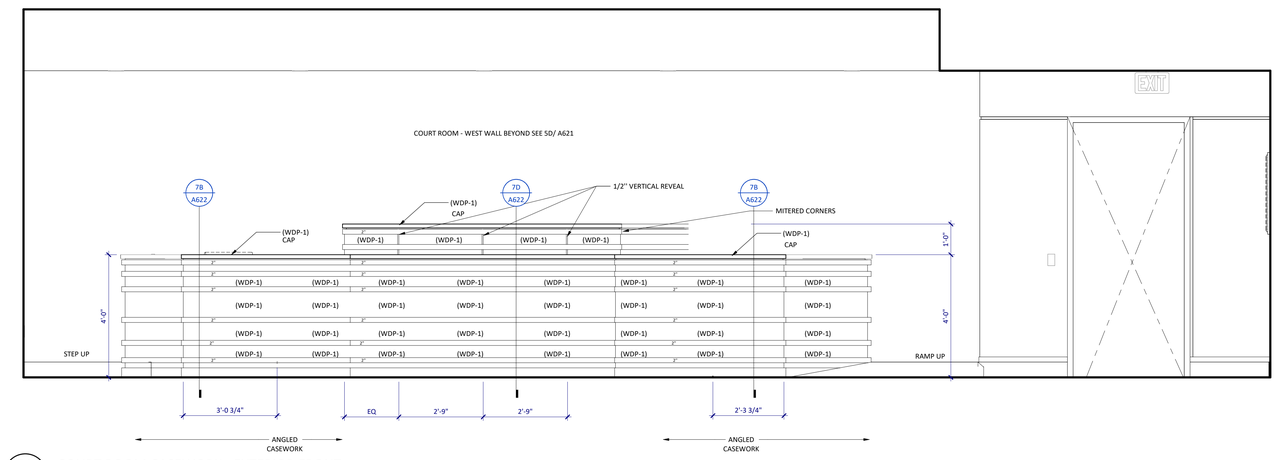
SCALE: 1/4" = 1'-0"



ALIGN WITH REVEALS ON OTHER SIDE OF WALL

6A A621 COURTROOM CASEWORK - EXTERIOR SOUTH

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



5A A621 COURT ROOM CASEWORK - EXTERIOR FRONT

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

GENERAL NOTES - CASEWORK

XX.XX* — * DENOTES LOCK TO BE PROVIDED FOR DOOR(S) OR DRAWER(S)
XX.XX* — INDICATES WIDTH OF CABINET (IN INCHES)
XX.XX* — CABINET TYPE - SEE SCHEDULE THIS SHEET

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20. SHELVES OVER 30 INCH SPAN AND LIBRARY STACK SHELVING: 1" THICKNESS.

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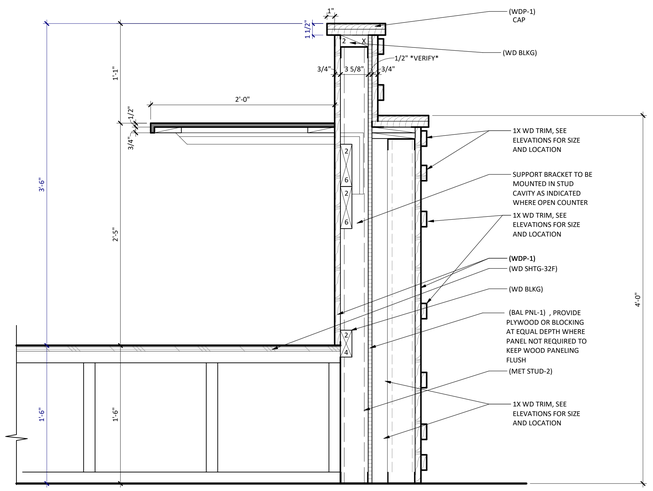
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

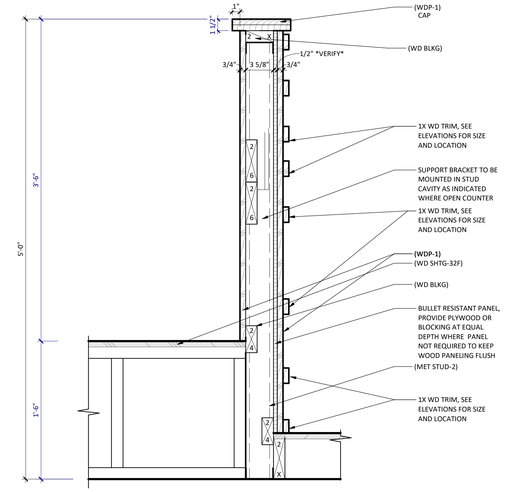
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A621
COURTROOM CASEWORK

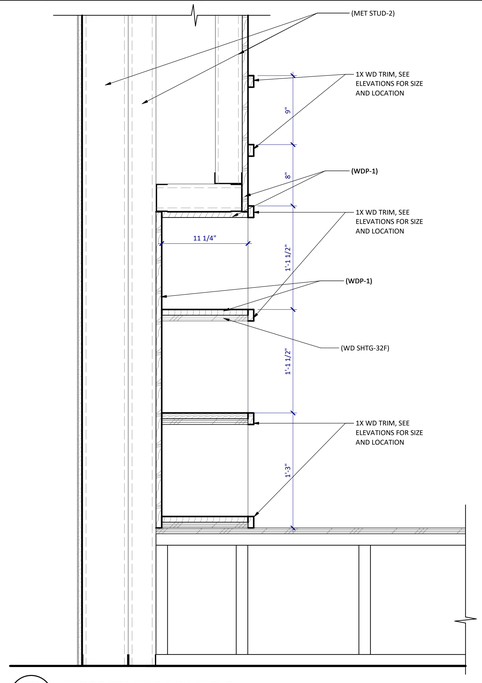
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7D A622 JUDGE COUNTER
SCALE: 1 1/2" = 1'-0"



5D A622 JUDGE BENCH WALL
SCALE: 1 1/2" = 1'-0"



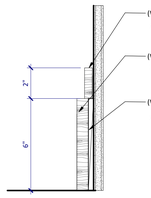
3D A622 JUDGE STAND BOOK SHELF
SCALE: 1 1/2" = 1'-0"

SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
BAL PNL-1	10 2641 - LAMINATED FIBER BALLISTICS-RESISTANT PANEL
MET STUD-2	09 2116 - NON-LOADBEARING METAL STUDS, 20 GA.
WD BLKG	06 1000 - WOOD BLOCKING
WD SHTG-30	06 1000 - 1/2" SHEATHING
WD SHTG-32F	06 1000 - 3/4" SHEATHING, FIRE RETARDANT TREATED
WDP-1	06 4200 - WOOD PANELING
WDT-1	06 2000 - WOOD TRIM

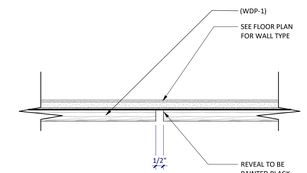
GENERAL NOTES - CASEWORK

XX.XX* — INDICATES WIDTH OF CABINET (IN INCHES)
XX.XX* — * DENOTES LOCK TO BE PROVIDED FOR DOOR(S) OR DRAWER(S)
XX.XX* — CABINET TYPE - SEE SCHEDULE THIS SHEET

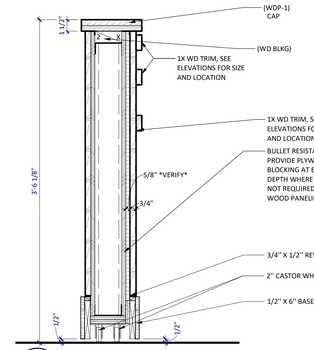
1. CASEWORK & ARCHITECTURAL WOODWORK CONTRACTOR(S) SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS TO PROPERLY DETERMINE CONTRACTUAL RESPONSIBILITIES.
2. FOR ACTUAL ROOM DIMENSIONS REFER TO FLOOR PLANS. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE FABRICATION.
3. OVERALL LENGTH OF TOPS SHALL BE DETERMINED BY CASEWORK DIMENSIONS AS INDICATED ON PLANS. SUCH LENGTHS SHALL REMAIN CONSTANT REGARDLESS OF SUCCESSFUL BIDDER'S STANDARDS.
4. OVERALL HEIGHT OF BASE CABINET TOPS MUST BE MAINTAINED AS SHOWN ON INTERIOR ELEVATIONS.
5. INSTALLATION OF CASEWORK SHALL BEGIN AT THE HIGH POINT OF THE ROOM WITH ANY LEVELERS IN AS FAR AS POSSIBLE.
6. COUNTERTOPS AND SPLASHES SHALL BE SCRIBED TO MATCH IRREGULARITIES AND CONTOURS OF WALLS.
7. CASEWORK SHALL BE INSTALLED ON TOP OF FINISHED VCT, OR WELDED SHEET FLOORING WHERE THESE FLOOR FINISHES ARE SCHEDULED.
8. PROVIDE FINISHED BACK & END PANELS TO COMPLETE THE ENCLOSURE OF ALL CABINETRY TO WALLS AND ADJACENT CABINETRY.
9. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. PROVIDE EQUAL SIZED FILLERS AT WALLS WHERE CONTINUOUS RUN OF CASEWORK ABUTS TWO WALLS.
11. PROVIDE BRACKET AT ANY COUNTER OR SHELF SPANNING MORE THAN 4'-0" UNSUPPORTED.
12. DOORS IN TALL CABINETS (TYPE 'T' CABINETS) SHALL BE 3/4" THICK.
13. SEE INTERIOR ELEVATIONS FOR LOCKING CONFIGURATIONS AND LOCATIONS.
14. SEE INTERIOR ELEVATIONS FOR ALL FINISHES.
15. PROVIDE GROMMET HOLES AT ALL COUNTERTOPS WITH KNEE SPACE. LOCATE GROMMETED OPENINGS IN FIELD (COORD.. W/MISC. EQUIPMENT) AT 4'-0" O.C. MAX, AND 1 PER COUNTER MIN.
16. BASE FINISH AT CABINETS SHALL BE RESILIENT BASE.
17. INTERIOR FINISH AT OPEN CABINETS WITHOUT DOORS SHALL MATCH THE COLOR, MATERIAL AND FINISH OF ADJACENT CABINET EXTERIORS, U.N.O.
18. CONCEALED CABINET BACKS, DRAWER BODY, AND DRAWER BOTTOMS: 1/2" THICKNESS.
19. DOOR AND DRAWER FACE, WALL AND TALL CABINET TOP AND BOTTOMS, CABINET SIDES, DRAWER SPREADERS, CABINET BACK REAR HANGSTRIPS, STRUCTURAL DIVIDERS, EXPOSED CABINET BACKS, AND SHELVES OF LESS THAN 30 INCH SPACE: 3/4" THICKNESS.
20. SHELVES OVER 30 INCH SPAN AND LIBRARY STACK SHELVING: 1" THICKNESS.



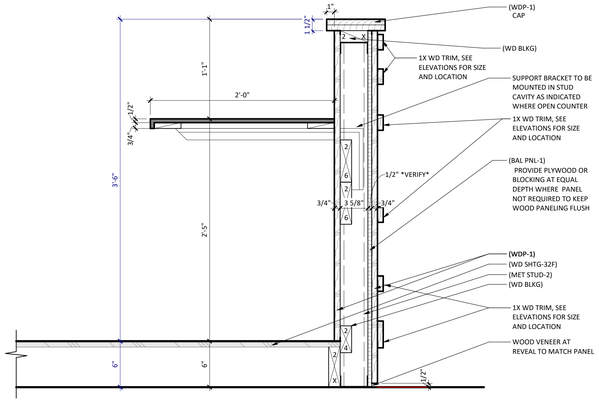
5C A622 WOOD BASE
SCALE: 3" = 1'-0"



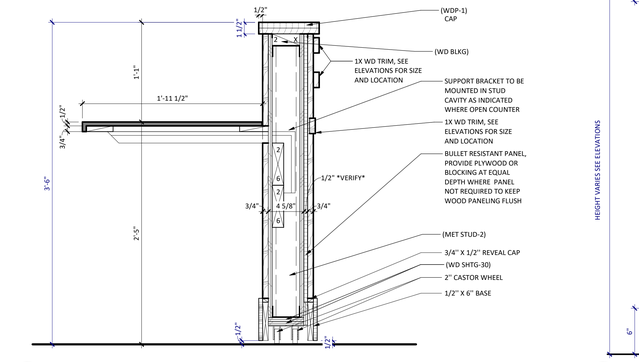
4C A622 WAINSCOT REVEAL PLAN DETAIL
SCALE: 3" = 1'-0"



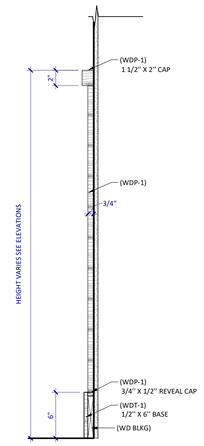
2C A622 CLERK DESK SECTION
SCALE: 1 1/2" = 1'-0"



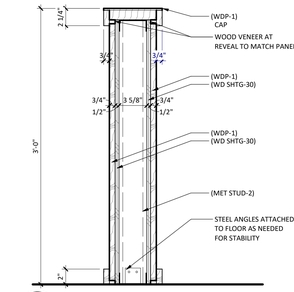
7B A622 WITNESS & RECORDER COUNTER
SCALE: 1 1/2" = 1'-0"



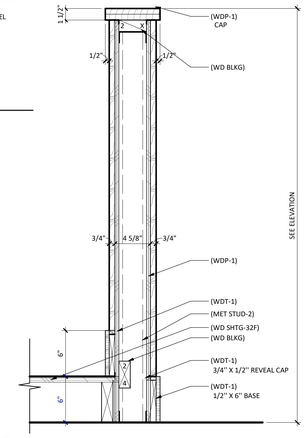
5B A622 CLERK DESK SECTION AT COUNTER
SCALE: 1 1/2" = 1'-0"



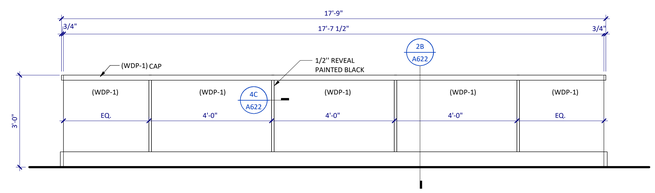
3B A622 WAINESCOT SECTION
SCALE: 1 1/2" = 1'-0"



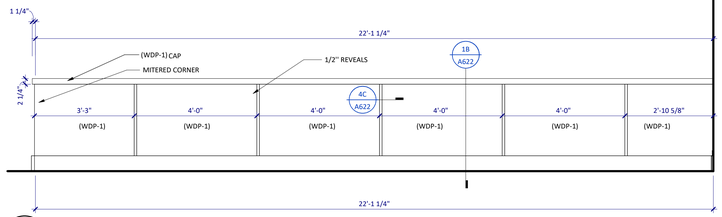
2B A622 FREE STANDING WALL
SCALE: 1 1/2" = 1'-0"



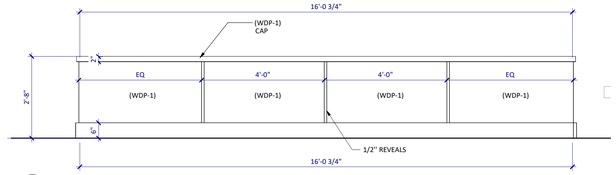
1B A622 RAISED JURY ROOM WALL
SCALE: 1 1/2" = 1'-0"



7A A622 DIVIDER WALL
SCALE: 1/2" = 1'-0"



5A A622 RAISED JURY STAND CASE WORK
SCALE: 1/2" = 1'-0"



2A A622 JURY STAND CASE WORK
SCALE: 1/2" = 1'-0"

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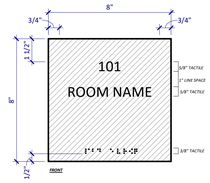
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

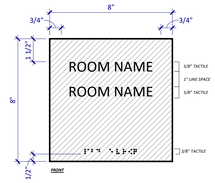
DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A622
COURTROOM CASEWORK

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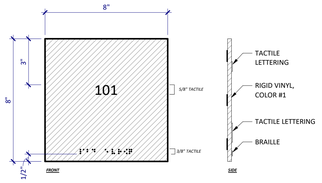
ROOM SIGNAGE - '1' SERIES



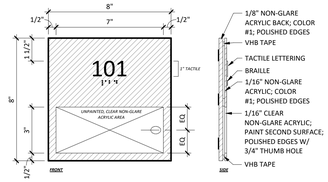
1A - ROOM ID WITH PERMANENT INFORMATION



1B - ROOM ID WITH PERMANENT INFORMATION

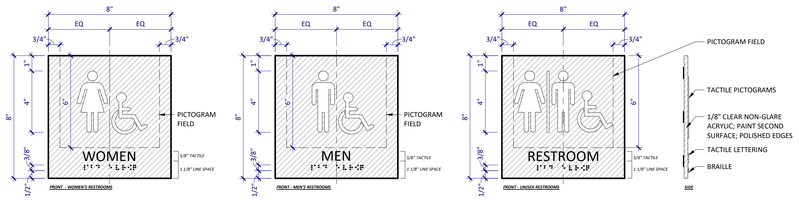


1C - ROOM ID WITH PERMANENT INFORMATION



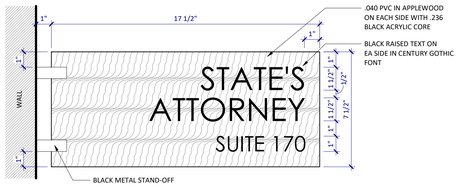
1D - ROOM ID W/ CLEAR AREA TO HOLD 3" X 7" PAPER INSERT

ROOM SIGNAGE - '2' SERIES

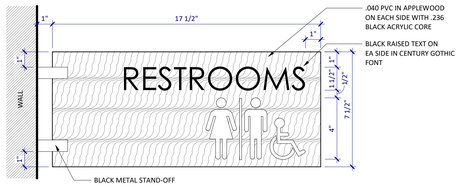


2A - 2C RESTROOM IDENTIFICATION

FLAG SIGNAGE - '3' SERIES

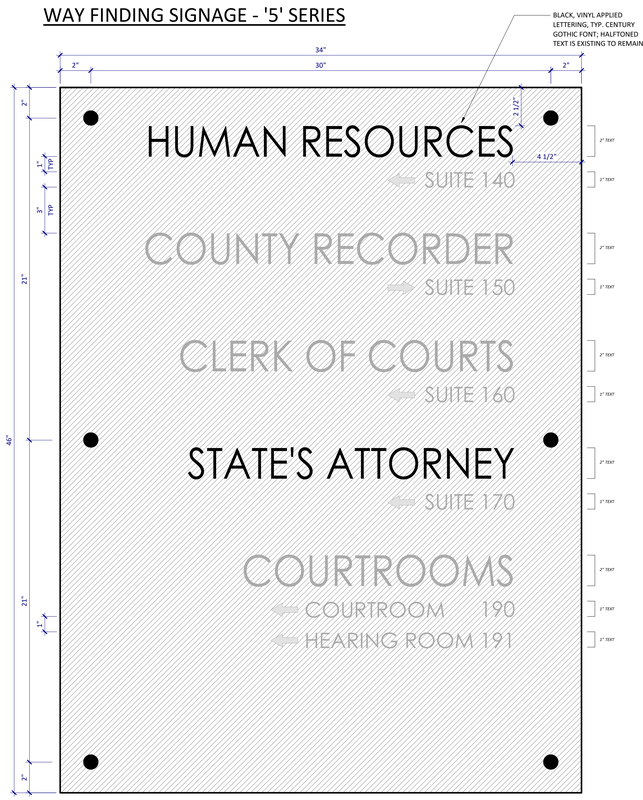


3A - 2 SIDED DEPARTMENT SIGN

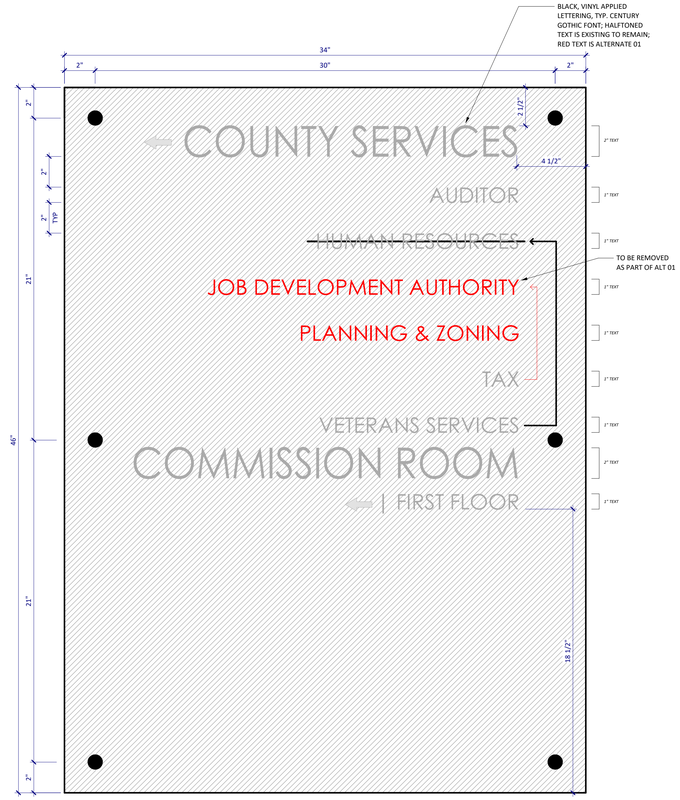


3B - 1 SIDED RESTROOM SIGN

WAY FINDING SIGNAGE - '5' SERIES



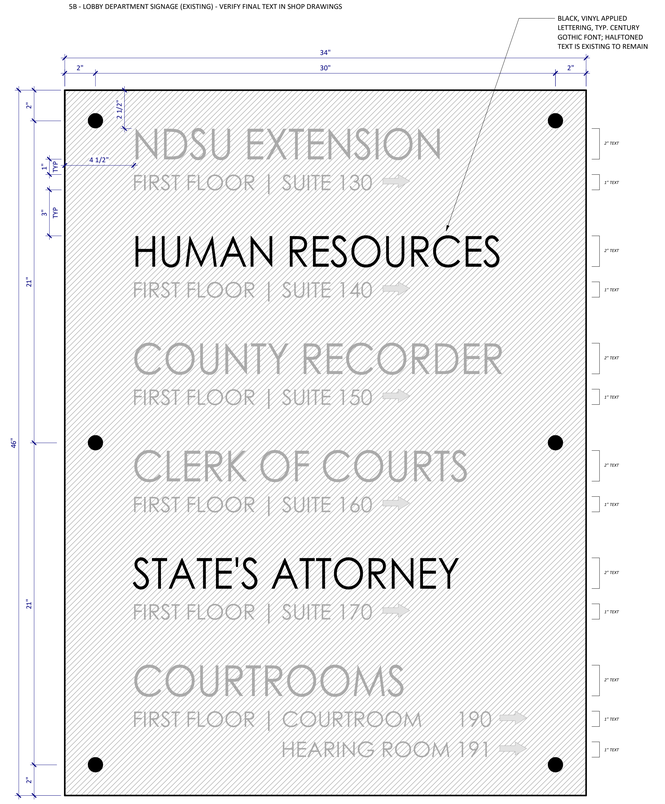
5A - HALL DEPARTMENT SIGNAGE (EXISTING)



5B - LOBBY DEPARTMENT SIGNAGE (EXISTING) - VERIFY FINAL TEXT IN SHOP DRAWINGS



5C - LOBBY DEPARTMENT SIGNAGE (EXISTING) - VERIFY FINAL TEXT IN SHOP DRAWINGS



5D - LOBBY DEPARTMENT SIGNAGE (EXISTING)

7C / A630 SIGNAGE SCHEDULE
SCALE: 3" = 1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

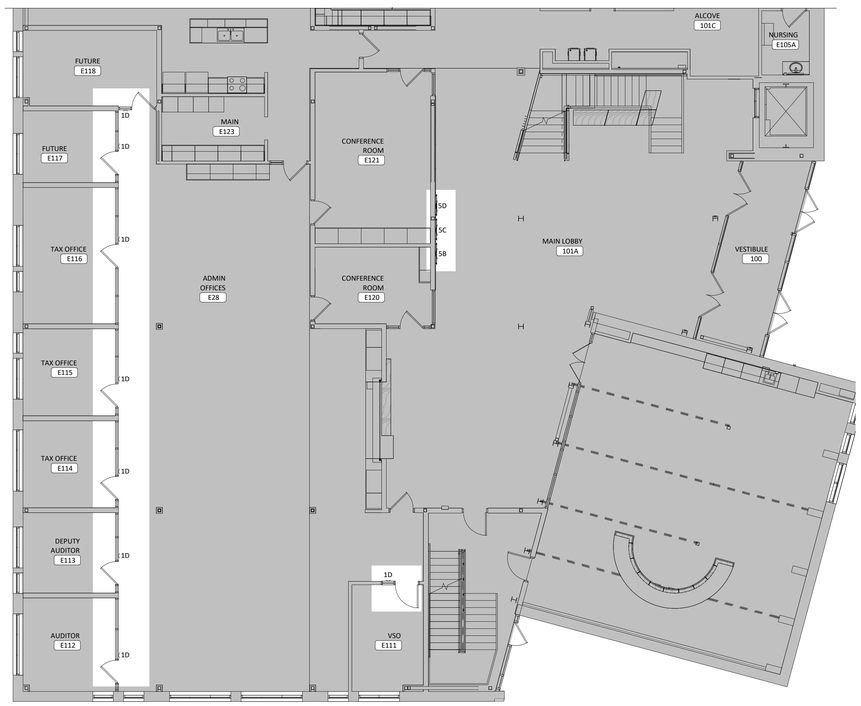
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A630
SIGNAGE SCHEDULE & DETAILS



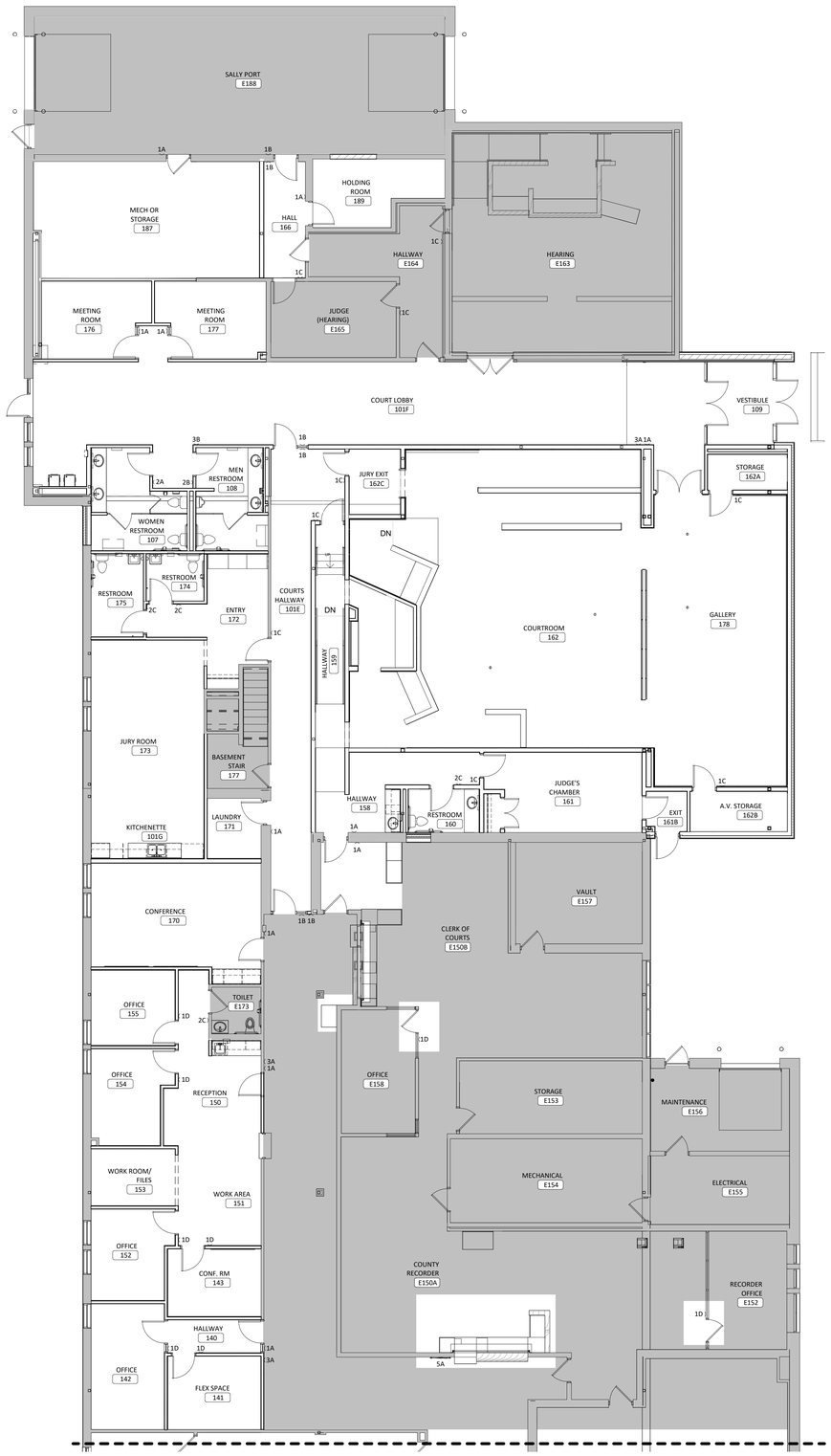
7C A631 SECOND FLOOR SIGNAGE PLAN - AREA A - ALTERNATE 1

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



7A A631 FIRST FLOOR SIGNAGE PLAN - AREA A

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



5A A631 FIRST FLOOR SIGNAGE PLAN - AREA B

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

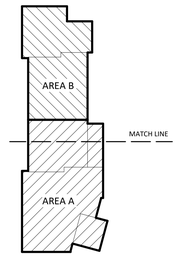
INTERIOR SIGNAGE SCHEDULE

ROOM NO.	SIGN NO.	TYPE	LETTERING	NOTES
101A	-	5B, 5C, 5D	SEE A630	
101B	-	5A	SEE A630	
101E	-	1B	COURTROOMS, DOOR ALARM WILL SOUND IF NOT AUTHORIZED, RETURN TO MAIN LOBBY	VINYL BACKER WHEN ON GLASS
101F	-	3B / 1B	RESTROOMS / TO COURTROOM & HEARING ROOM	VINYL BACKER WHEN ON GLASS
107	-	2A	WOMEN	
108	-	2B	MEN	
140	140	1A / 3A	HUMAN RESOURCES / HUMAN RESOURCES SUITE 140	VINYL BACKER WHEN ON GLASS
141	141	1D	-	
142	142	1D	-	VINYL BACKER WHEN ON GLASS
143	175	1D	-	
150	170	1A / 3A	STATE'S ATTORNEY / STATE'S ATTORNEY SUITE 170	
152	174	1D	-	
154	172	1D	-	
155	171	1D	-	
158	190	1A	COURTROOM	
159	190	1C	-	
160	-	2C	RESTROOM	UNISEX ADA SYMBOL
161	190C	1C	-	
162A	190A	1C	-	
162B	190B	1C	-	
162C	190	1C	-	
166	-	1B	TO COURTROOM & HEARING	
170	180	1A	CONFERENCE	
171	181	1A	LAUNDRY	
172	194	1C	-	
174	-	2C	RESTROOM	UNISEX ADA SYMBOL
175	-	2C	RESTROOM	UNISEX ADA SYMBOL
176	193	1A	MEETING ROOM	VINYL BACKER WHEN ON GLASS
177	192	1A	MEETING ROOM	VINYL BACKER WHEN ON GLASS
178	190	1A / 3A	COURTROOM / COURTROOM SUITE 190	
187	196	1A	MECHANICAL	
189	195	1A	HOLDING	
210	210	1A / 3A	COMMUNITY DEVELOPMENT / COMMUNITY DEVELOPMENT SUITE 210	VINYL BACKER WHEN ON GLASS
211	211	1A	CONFERENCE	VINYL BACKER WHEN ON GLASS
218	218	1D	-	
225	210	1A	COMMUNITY DEVELOPMENT	
230	230	1A	TRAINING ROOM	VINYL BACKER WHEN ON GLASS
231	231	1A	STORAGE	
238	240	1A / 3A	HUMAN SERVICES / HUMAN SERVICES SUITE 240	VINYL BACKER WHEN ON GLASS
239	241	1A	CONFERENCE	
240	241A	1A	STORAGE	
241	-	1B	PLEASE RING BELL FOR ASSISTANCE	
243	243	1D	-	
244	245	1D	-	
245	246	1A	WORK ROOM	
246	244	1D	-	VINYL BACKER WHEN ON GLASS
247	242	1D	-	
E111	111	1D	-	VINYL BACKER WHEN ON GLASS
E112	112	1D	-	VINYL BACKER WHEN ON GLASS
E113	113	1D	-	VINYL BACKER WHEN ON GLASS
E114	114	1D	-	VINYL BACKER WHEN ON GLASS
E115	115	1D	-	VINYL BACKER WHEN ON GLASS
E116	116	1D	-	VINYL BACKER WHEN ON GLASS
E117	117	1D	-	VINYL BACKER WHEN ON GLASS
E118	118	1D	-	VINYL BACKER WHEN ON GLASS
E150B	150B	1A	CLERK OF COURTS	
E152	152	1D	-	VINYL BACKER WHEN ON GLASS
E158	158	1D	-	VINYL BACKER WHEN ON GLASS
E163	191	1C	-	
E165	191A	1C	-	
E173	-	2C	RESTROOM	UNISEX ADA SYMBOL
E188	197	1A	SALLY PORT	
E219	217	1D	-	
E220	216	1D	-	
E221	215	1D	-	
E222	214	1D	-	

GENERAL NOTES - SIGNAGE

1. ALL ROOM NUMBERING TO BE VERIFIED WITH OWNER IN SHOP DRAWINGS.

KEY PLAN



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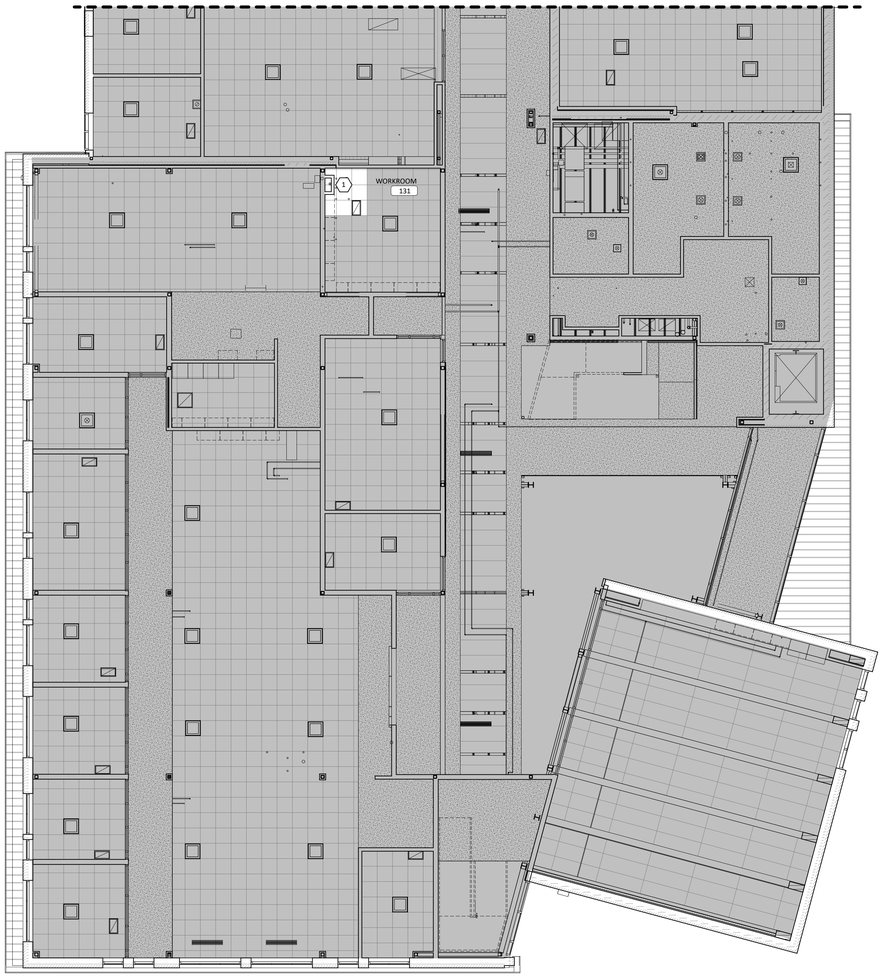
REVISION SCHEDULE

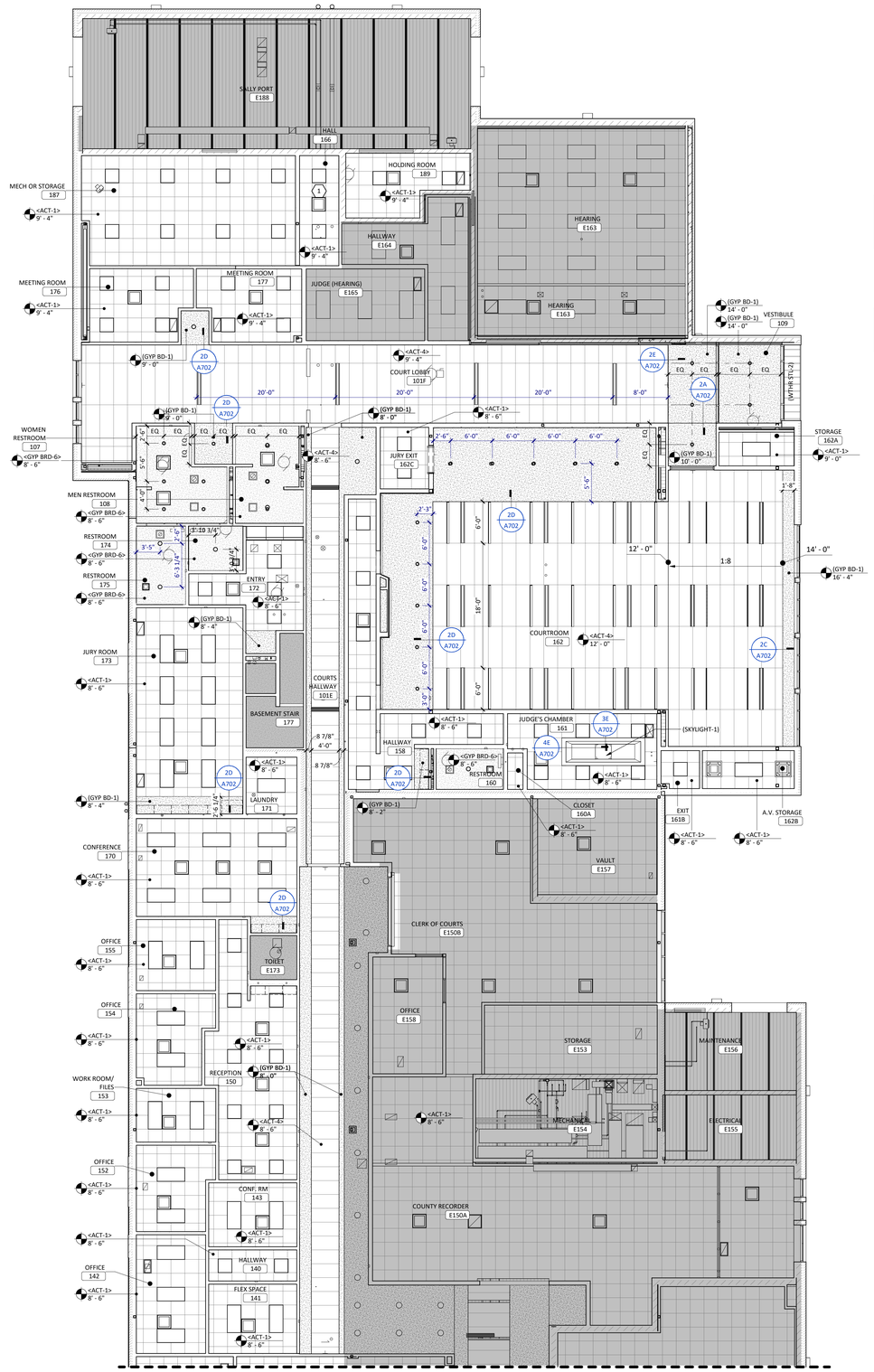
NO.	DESCRIPTION	DATE

DUNN COUNTY
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MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A631
SIGNAGE PLANS

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GENERAL NOTES - RCP

1. COORDINATE FINAL SIZE AND FINAL LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING SAME.
2. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
3. FOR PARTITION TYPES, SEE SHEET G102.
4. REFER TO LIFE SAFETY PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
5. CEILING GRID SYSTEM TO BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE.
6. NO CEILING PANEL TO BE CUT TO LESS THAN 6" WIDTH AT CEILING PANEL INSTALLATION TYPICAL.
7. AT CONDITIONS WHERE CEILING TILE PADS EXCEED 2'-0" TRIM 2'X4' CEILING PADS AS REQUIRED TO FIT.
8. SPRINKLER HEADS TO BE LOCATED IN THE CENTER OF CEILING PANELS TYPICALLY.
9. PAINT ALL EXPOSED (VISUAL) CONSTRUCTION ABOVE CEILINGS INCLUDING BUT NOT LIMITED TO MECH. AND ELECTRICAL ITEMS. SEE NOTES ON SHEET FOR EXTENT OF SCOPE.
10. VERIFY EXACT LOCATIONS OF SOFFIT AND CEILING CONTROL JOINTS WITH THE ARCHITECTS REPRESENTATIVE IN THE FIELD.
11. COORDINATE THE LOCATION OF ESCUTCHEON PLATES AT CEILING PANEL PENETRATIONS WITH ELECTRICAL AND MECHANICAL TRADES.
12. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES AND NIGHT LIGHT LOCATIONS.
13. PATCH AND REPAIR THE EXISTING CEILING PANELS AND GRID WHERE WALLS WERE REMOVED.
14. CONTRACTOR SHALL MAINTAIN THE FIRE RATING INTEGRITY OF ALL EXISTING PARTITIONS INDICATED AS FIRE RESISTANCE RATED. ADVISE THE ARCHITECT OF ANY PRE-EXISTING BREACHES DISCOVERED IN THE COURSE OF WORK.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
SKYLIGHT-1	08 6200 - FACTORY ASSEMBLED SKYLIGHT
WTHR STL-2	07 4213 - SOFFIT PANELS

KEYNOTES - CEILING PLAN

NO	NOTE	REV.
1	PATCH CEILING AS REQUIRED IN THIS SPACE.	

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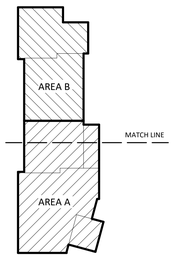
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET A701
FIRST FLOOR RCP

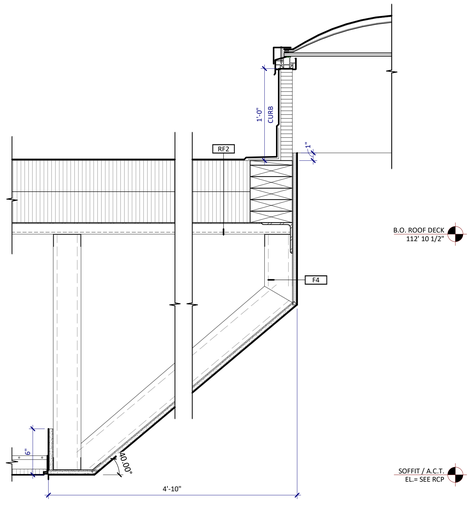
KEY PLAN



6A / A701 FIRST FLOOR REFLECTED CEILING PLAN - AREA A
SCALE: 1/8" = 1'-0"

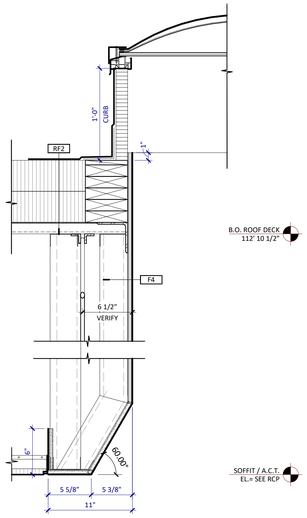
4A / A701 FIRST FLOOR REFLECTED CEILING PLAN - AREA B
SCALE: 1/8" = 1'-0"

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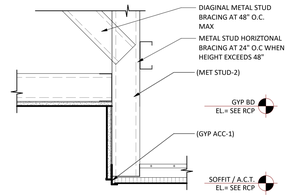
4E A702 SKYLIGHT E/W DETAIL

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



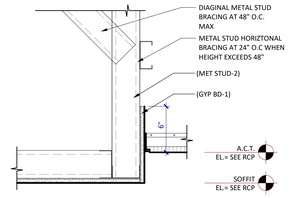
3E A702 SKYLIGHT N/S DETAIL

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



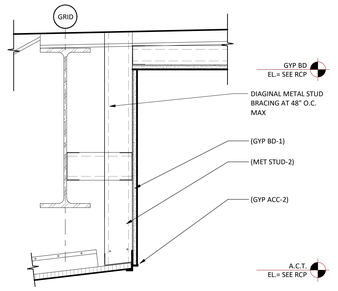
2E A702 SOFFIT DETAIL - GYP BULKHEAD TO ACT

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



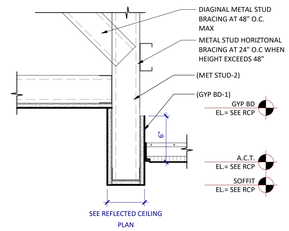
2D A702 SOFFIT DETIAL - GYP TO ACT

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



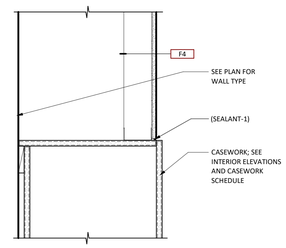
2C A702 COURTROOM SOFFIT DETAIL

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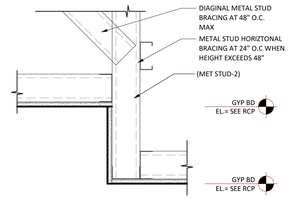
2B A702 BULKHEAD/ACT TO DETAIL

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



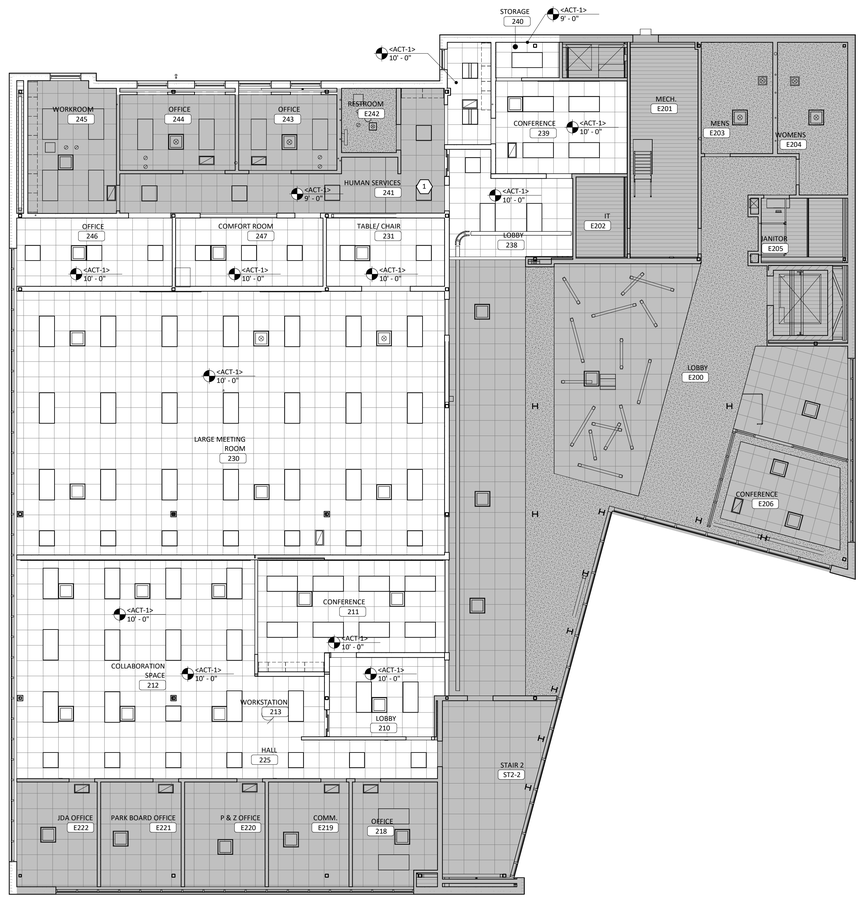
3A A702 SOFFIT ABOVE CASEWORK

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



2A A702 SOFFIT DETAIL - GYP TO GYP

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



6A A702 SECOND FLOOR REFLECTED CEILING PLAN - AREA A - ALTERNATE 1

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

GENERAL NOTES - RCP

1. COORDINATE FINAL SIZE AND FINAL LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING SAME.
2. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
3. FOR PARTITION TYPES, SEE SHEET G102.
4. REFER TO LIFE SAFETY PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
5. CEILING GRID SYSTEM TO BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE.
6. NO CEILING PANEL TO BE CUT TO LESS THAN 6" WIDTH AT CEILING PANEL INSTALLATION TYPICAL.
7. AT CONDITIONS WHERE CEILING TILE PADS EXCEED 2'-0" TRIM 2'X4' CEILING PADS AS REQUIRED TO FIT.
8. SPRINKLER HEADS TO BE LOCATED IN THE CENTER OF CEILING PANELS TYPICALLY.
9. PAINT ALL EXPOSED (VISUAL) CONSTRUCTION ABOVE CEILINGS INCLUDING BUT NOT LIMITED TO MECH. AND ELECTRICAL ITEMS. SEE NOTES ON SHEET FOR EXTENT OF SCOPE.
10. VERIFY EXACT LOCATIONS OF SOFFIT AND CEILING CONTROL JOINTS WITH THE ARCHITECTS REPRESENTATIVE IN THE FIELD.
11. COORDINATE THE LOCATION OF ESCUTCHEON PLATES AT CEILING PANEL PENETRATIONS WITH ELECTRICAL AND MECHANICAL TRADES.
12. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES AND NIGHT LIGHT LOCATIONS.
13. PATCH AND REPAIR THE EXISTING CEILING PANELS AND GRID WHERE WALLS WERE REMOVED.
14. CONTRACTOR SHALL MAINTAIN THE FIRE RATING INTEGRITY OF ALL EXISTING PARTITIONS INDICATED AS FIRE RESISTANCE RATED. ADVISE THE ARCHITECT OF ANY PRE-EXISTING BREACHES DISCOVERED IN THE COURSE OF WORK.

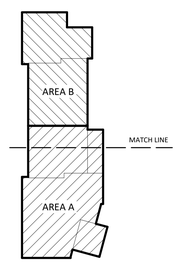
SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
GYP ACC-1	09 2116 - ALUMINUM DRYWALL REVEAL MOLDING
GYP ACC-2	09 2116 - ALUMINUM ACOUSTICAL MOLDING
GYP BD-1	09 2116 - 5/8" TYPE X GYPSUM BOARD
MET STUD-2	09 2116 - NON-LOADBEARING METAL STUDS, 20 GA.
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD

KEYNOTES - CEILING PLAN

NO	NOTE	REV.
1	PATCH CEILING AS REQUIRED IN THIS SPACE.	

KEY PLAN



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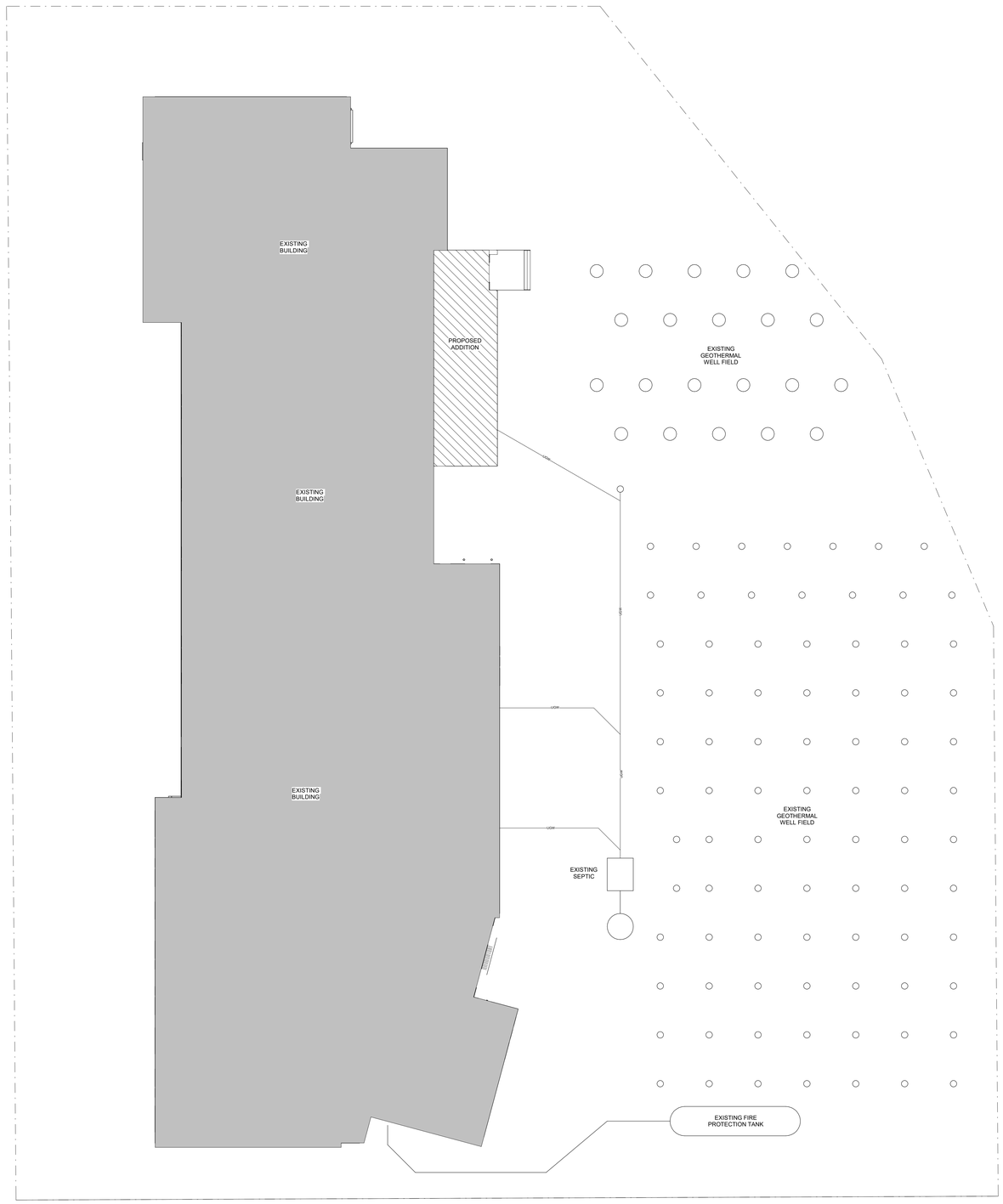
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PROJECT 24146
SHEET A702
SECOND FLOOR RCP - ALTERNATE 1

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1 M001 SITE PLAN
1/16" = 1'-0"

GENERAL NOTES

A	PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE THE DRAWING PACKAGE IS ISSUED.
B	ARRANGE WITH AUTHORITIES AND UTILITY COMPANIES FOR PERMITS FEES AND SERVICE CONNECTIONS. VERIFY LOCATIONS AND ARRANGEMENTS AND PAY ALL CHARGES, INCLUDING INSPECTIONS.
C	THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER CONTRACTORS ON THE PROJECT AND INSTALL MECHANICAL SYSTEMS IN A MANNER WHICH WILL CONFORM TO STRUCTURE, KEEP PASSAGEWAYS AND OPENINGS CLEAR, PRESERVE HEAD ROOM, CLEAR LIGHT FIXTURES AND NOT COVER UP JUNCTION BOXES.
D	INSTALL PIPING AND DUCTWORK TO PROVIDE THE MAXIMUM CLEAR HEIGHT UNDERNEATH UNLESS OTHERWISE NOTED.
E	THE ENTIRE SYSTEM AND ITS COMPONENT ITEMS SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION.
F	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS, CEILING DIFFUSERS, GRILLES AND REGISTERS.
G	THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS FOR ALL DUCTWORK AND PIPING FOR THE INSTALLATION PRIOR TO FABRICATION.
H	THIS CONTRACTOR SHALL MAKE OFFSETS IN PIPING OR DUCTWORK TO AVOID INTERFERENCE WITH OTHER TRADES, AT NO ADDITIONAL COST TO THE OWNER, WHEN SO DIRECTED BY THE ARCHITECT/ENGINEER.
I	DUCT DIMENSIONS SHOWN ARE AIR STREAM SIZES (FREE AREA). SIZES DO NOT INCLUDE ALLOWANCE FOR DUCT INSULATION OR LINER.
J	PIPE ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ACTUAL PLACEMENT OF PIPING SHOULD BE DONE COLLECTIVELY AND IN SUCH A MANNER AS NOT TO CONFLICT WITH LOCATION SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.
K	PROVIDE FIRE-STOP AROUND PIPE AND/OR DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS.
L	FLEXIBLE RUNOUTS TO CEILING DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED. MAXIMUM FLEX LENGTH SHALL BE 10'; PROVIDE HARD DUCT AS REQUIRED.
M	COORDINATE ALL SLAB PENETRATIONS AND SLEEVES PRIOR TO EACH CONCRETE POUR. PROVIDE SLEEVES AND INSERTS AS REQUIRED FOR PLACEMENT IN STRUCTURAL OR ARCHITECTURAL WORK.
N	EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE WITH ACCESS COVERS INSTALLED FLUSH TO FINISHED SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF LINSEED OIL AND GRAPHITE. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.
O	PROVIDE NATURAL GAS TAKE-OFFS FROM TOP OF MAIN LINES FOR DROPS TO EQUIPMENT LOCATIONS. PROVIDE 6" DIRT LEG FITTINGS AT NATURAL GAS PIPE EQUIPMENT CONNECTIONS.
P	PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SHUT-OFF VALVES AND UNIONS TO FACILITATE SERVICING.
Q	PROVIDE SHOCK ARRESTORS ON ALL DOMESTIC COLD AND HOT WATER PIPING SERVING QUICK ACTING VALVES SUCH AS FLUSH VALVES AND AUTOMATIC SENSOR FAUCETS.
R	INSTALL ALL SUPPLY, RETURN, AND EXHAUST AIR GRILLS/DIFFUSERS A MINIMUM OF 3' FROM ALL SMOKE/HEAT DETECTION DEVICES

STANDARD ABBREVIATIONS

A/C	AIR CONDITIONING
AD	ACCESS DOOR
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH, AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROLS
BDD	BACK DRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
CA	COMBUSTION AIR
CLG	CEILING
CO	CLEAN OUT
COND	CONDENSATE DRAIN
DB	DUCT BARRIER
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
FA	FRESH AIR
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FPC	FIRE PROTECTION CONTRACTOR
FPH	FREEZE-PROOF HYDRANT
FPM	FEET PER MINUTE
FSC, FSEC	FOOD SERVICES EQUIPMENT CONTRACTOR
GA	GAUGE
GC	GENERAL CONTRACTOR
GRD	GRILLES, REGISTERS, DIFFUSERS
HTG	HEATING
HVAC	HEATING, VENTILATING, AND A/C
INSUL	INSULATION
MAU	MAKE-UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MTD	MOUNTED
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
PNL	PANEL
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RD	ROOF DRAIN
REQ'D	REQUIRED
SA	SUPPLY AIR
SAN	SANITARY
SFD	SMOKE/FIRE DAMPER
SPEC	SPECIFICATIONS
TYP	TYPICAL
UG	UNDERGROUND
VD	VOLUME DAMPER
VT	VENT
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WCO	WALL CLEAN OUT
WFC	WELL FIELD CONTRACTOR
WVT	WET VENT

PIPING VALVE & ACCESSORY LEGEND

- BALL VALVE
- BALL VALVE
- BALL VALVE INDICATOR
- BUTTERFLY VALVE
- GATE VALVE
- VENTURI | FLOW MEASURING DEVICE
- CHECK VALVE
- 2-WAY HYDRONIC CONTROL VALVE
- 2-WAY DOMESTIC CONTROL VALVE
- 3-WAY CONTROL VALVE
- DRAIN VALVE
- STRAINER
- MANUAL AIR VENT
- AUTO AIR VENT
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- SENSOR
- CIRCUIT SOLVER
- UNION

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

SPRINKLER HEAD LEGEND

- UPRIGHT HEAD
- PENDENT HEAD
- CONCEALED PENDENT HEAD
- RECESSED HEAD
- UPRIGHT HEAD W/ GUARD
- PENDENT HEAD W/ GUARD
- DRY PENDENT

ND STATE BUILDING CODES

(IBC)	2021 INTERNATIONAL BUILDING CODE
(IRC)	2021 INTERNATIONAL RESIDENTIAL CODE
(IMC)	2021 INTERNATIONAL MECHANICAL CODE
(IFGC)	2021 INTERNATIONAL FUEL GAS CODE
(IECC)	2021 INTERNATIONAL ENERGY CONSERVATION CODE
(IEBC)	2021 INTERNATIONAL EXISTING BUILDING CODE
(UPC)	2018 NORTH DAKOTA PLUMBING CODE

PIPING LEGEND

ABOVE	ABOVEGROUND WASTE
UGW	UNDERGROUND WASTE
V	VENT
RC	RAIN CONDUCTOR
CW	DOMESTIC COLD WATER
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HW	DOMESTIC HOT WATER
RHW	RECIRC HOT WATER
RHW	RECIRC HOT WATER
HWS	HOT WATER HTG SUPPLY
HWR	HOT WATER HTG RETURN
HWR	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HPR	HEAT PUMP RETURN
COND	CONDENSATE DRAIN
RS	REFRIGERANT LINE SET
GEOTHERM WS	GEOTHERMAL WELL WATER SUPPLY
GEOTHERM WR	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

HVAC LEGEND

- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- CONNECT TO EXISTING

M 999 30"x30"
- AIR TERMINAL TAG
- AIR TERMINAL MARK
- AIR TERMINAL CFM
- AIR TERMINAL SIZE

PROJECT DESIGN CONDITIONS
MANNING, NORTH DAKOTA

	SUMMER			WINTER
	DB	WB	DEW PT.	DB
OUTDOOR	89°F	67°F	N/A	-20°F
INDOOR	75°F	N/A	55°F	72°F

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REGISTERED PROFESSIONAL ENGINEER
CALEB A BULOW
PE-7110
DATE 10/21/25
NORTH DAKOTA

REVISION SCHEDULE

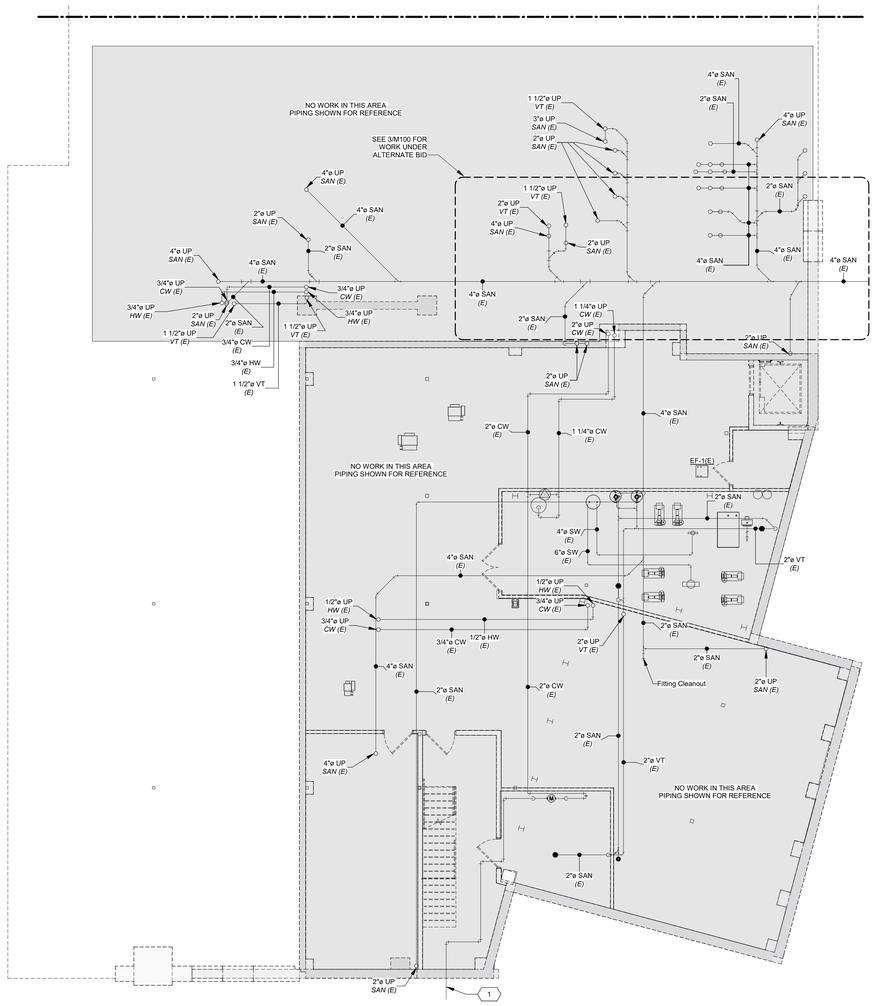
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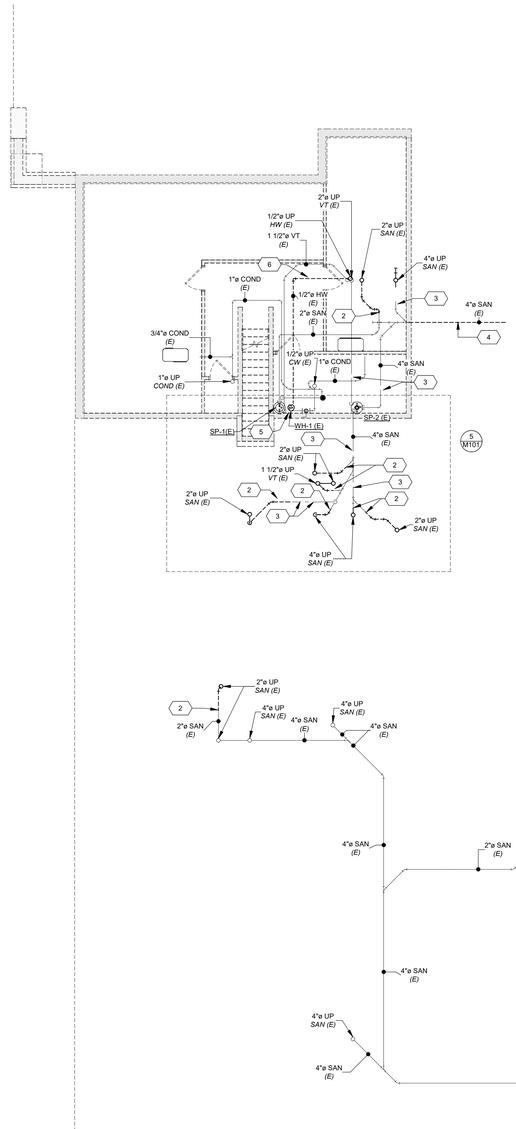
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PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
M001
REFERENCE SHEET

Prairie Engineering P.C.
Professional Consulting Engineers
Minot, ND 58701 | 701.852.6363

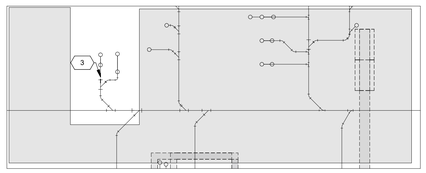
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1 M100 FOUNDATION FLOOR PLAN - AREA A - PLUMBING DEMOLITION - BASE BID
1/8" = 1'-0"



2 M100 FOUNDATION FLOOR PLAN - AREA B - PLUMBING DEMOLITION - BASE BID
1/8" = 1'-0"



3 M100 FOUNDATION FLOOR PLAN - AREA A - PLUMBING DEMOLITION - ALTERNATE BID 1
1/8" = 1'-0"

KEYNOTE LEGEND

1	EXISTING MAIN WATER SUPPLY INTO BUILDING.
2	CUT AND REMOVE WASTE PIPE MARKED FOR REMOVAL. CAP EXISTING WASTE PIPE TO REMAIN.
3	CUT EXISTING WASTE PIPE. PREPARE FOR CONNECTION OF NEW WASTE PIPING IN REMODEL.
4	CUT AND REPLACE MAIN WASTE LINE WITH SCHEDULE 40 PVC.
5	REMOVE WATER HEATER AND PREPARE EXISTING CONNECTIONS FOR NEW WATER HEATER (WH-1).
6	REMOVE EXISTING HW SUPPLY PIPING. PREPARE FOR 3/4" Ø REPLACEMENT FOR NEW WATER HEATER.

LINE TYPE LEGEND

EXISTING
NEW
REMOVE
HIDDEN
MATCHLINE

PLUMBING FIXTURE CONNECTIONS

FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

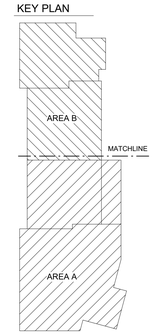
PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
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	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND

ABOVEGROUND WASTE
UGW — UNDERGROUND WASTE
VENT
RC — RAIN CONDUCTOR
CW — DOMESTIC COLD WATER
DOMESTIC COLD WATER
HW — DOMESTIC HOT WATER
DOMESTIC HOT WATER
RHW — RECIRC HOT WATER
RECIRC HOT WATER
HWS — HOT WATER HTG SUPPLY
HWR — HOT WATER HTG RETURN
HWR — HOT WATER HTG RETURN
HEAT PUMP SUPPLY
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COND — CONDENSATE DRAIN
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GEOTHERM WR — GEOTHERMAL WELL WATER RETURN
CONNECT TO EXISTING

KEY PLAN



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

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PE, 7110
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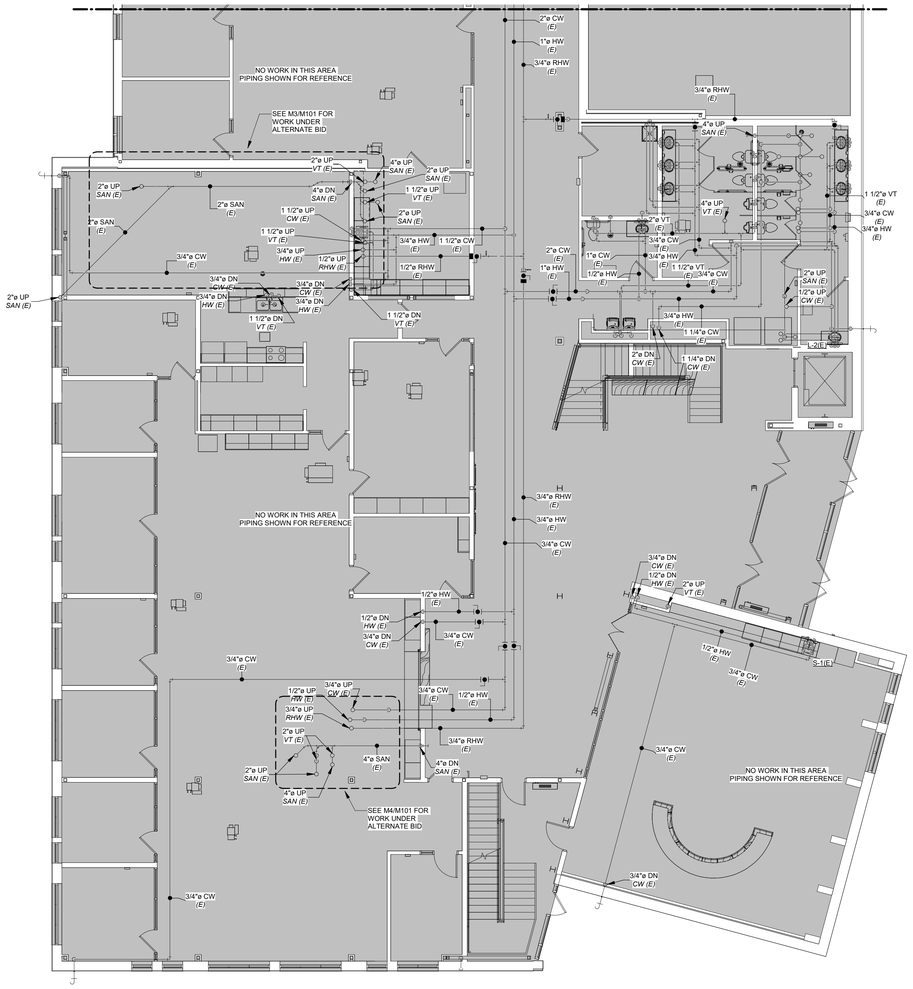
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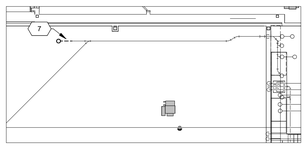
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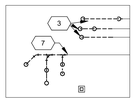
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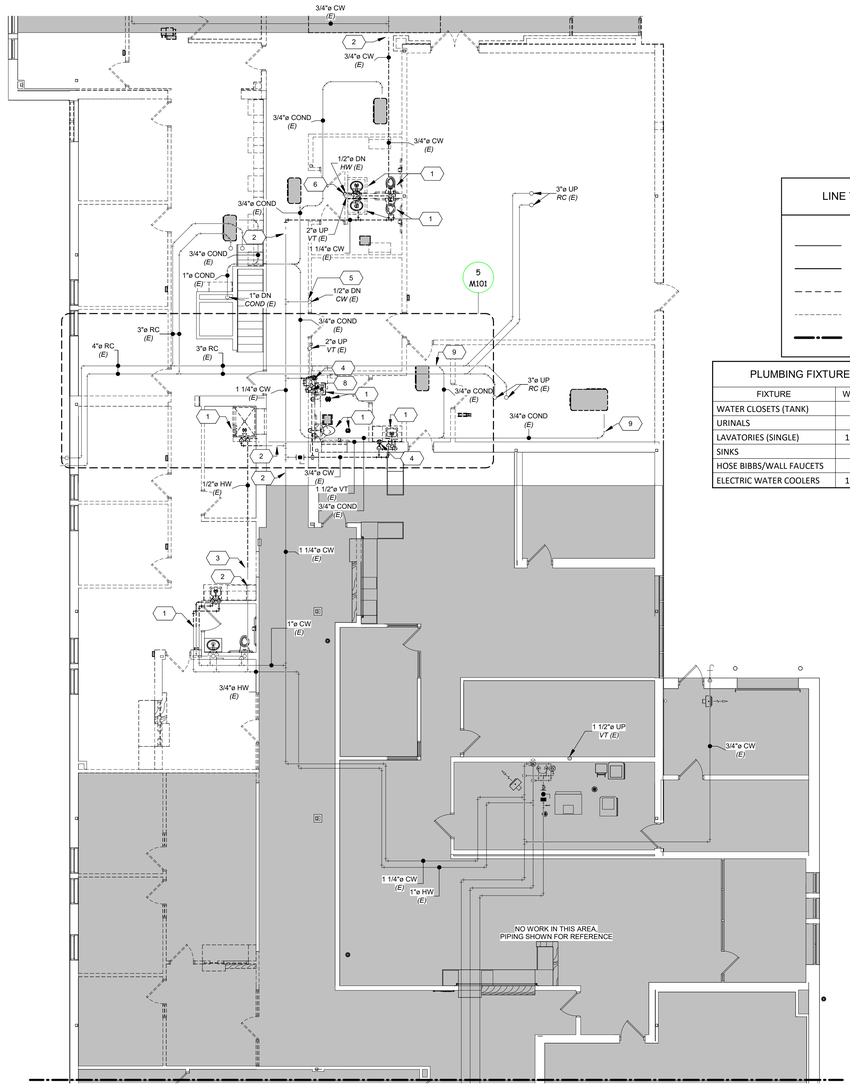
1 M101 FIRST FLOOR PLAN - AREA A - PLUMBING DEMOLITION - BASE BID
1/8" = 1'-0"



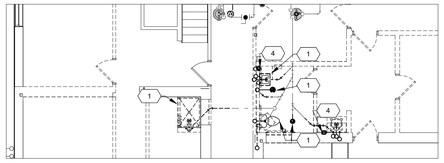
3 M101 FIRST FLOOR PLAN - AREA A1 - PLUMBING DEMOLITION - ALTERNATE BID 1
1/8" = 1'-0"



4 M101 FIRST FLOOR PLAN - AREA A2 - PLUMBING DEMOLITION - ALTERNATE BID 1
1/8" = 1'-0"



2 M101 FIRST FLOOR PLAN - AREA B - PLUMBING DEMOLITION - BASE BID
1/8" = 1'-0"



5 M101 FIRST FLOOR PLAN - AREA B - BELOW GRADE DEMOLITION PLAN - BASE BID
1/8" = 1'-0"

KEYNOTE LEGEND	
1	REMOVE FIXTURE, CUT AND CAP OFF ASSOCIATED PIPE CONNECTIONS.
2	CUT INTO EXISTING WATER SUPPLY PIPE AND PREPARE FOR NEW CONNECTION.
3	CUT AND REMOVE WATER SUPPLY PIPE MARKED FOR REMOVAL. CAP OFF EXISTING PIPE NOT TO BE REMOVED.
4	RE-LOCATED EXISTING WATER HEATER. NEW LOCATION IS MARKED FOR REMODEL.
5	EXISTING COLD WATER SUPPLY PIPING FOR WH-1 INSTALL.
6	PREPARE FOR NEW VENT AND HOT WATER CONNECTIONS. CAP OFF ANY PIPING GOING INTO BATHROOM MARKED FOR DEMO.
7	CUT AND REMOVE WASTE PIPE MARKED FOR REMOVAL. CAP EXISTING WASTE PIPE TO REMAIN.
8	CUT INTO EXISTING VENT PIPE AND PREPARE FOR NEW CONNECTIONS.
9	CUT INTO CONDENSATE PIPE, PREPARE FOR NEW CONNECTION.

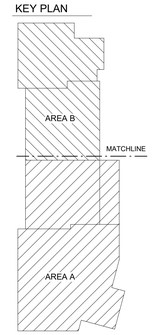
LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

PLUMBING FIXTURE CONNECTIONS			
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND	
	ABOVEGROUND WASTE
UGW	UNDERGROUND WASTE
	VENT
RC	RAIN CONDUCTOR
CW	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
RHW	RECIRC HOT WATER
	RECIRC HOT WATER
HWS	HOT WATER HTG SUPPLY
HWR	HOT WATER HTG RETURN
HWR	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HPR	HEAT PUMP RETURN
COND	CONDENSATE DRAIN
RS	REFRIGERANT LINE SET
GEOTHERM WS	GEOTHERMAL WELL WATER SUPPLY
GEOTHERM WR	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

KEY PLAN



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

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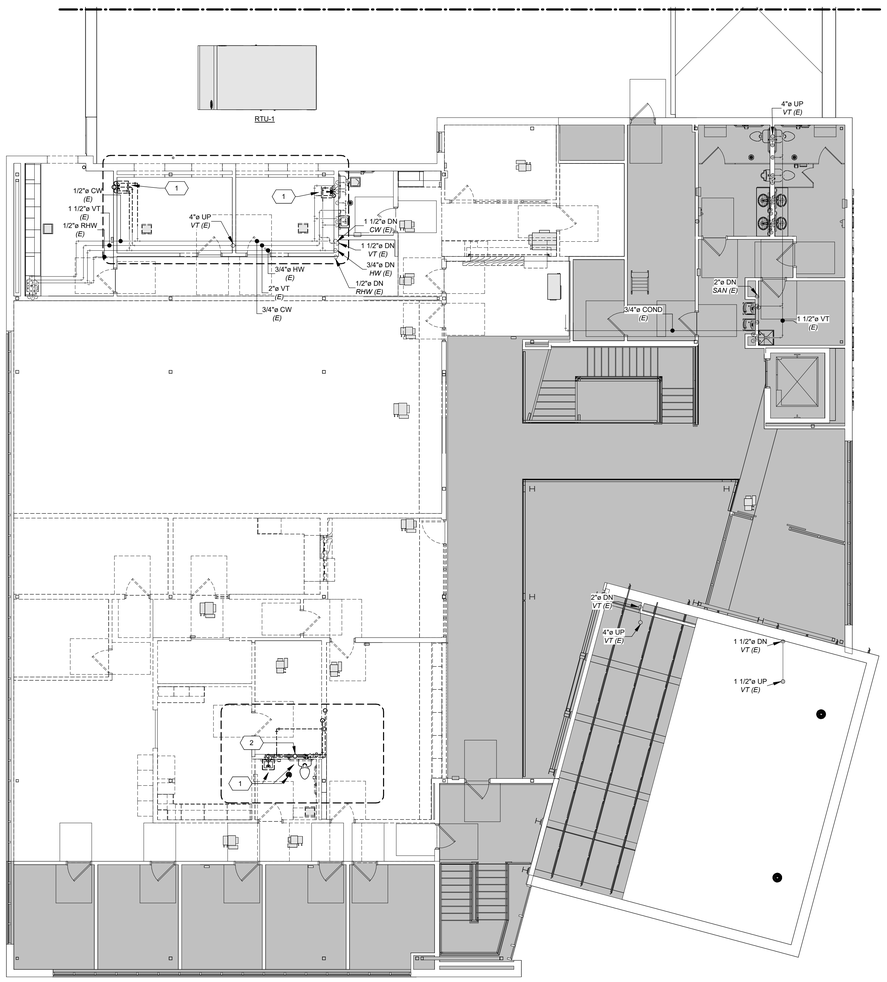
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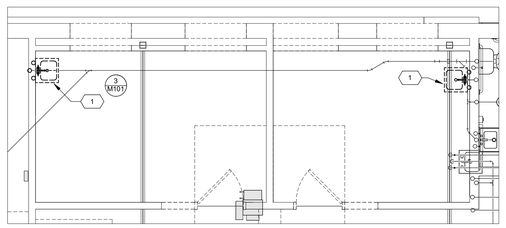
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
M101
FIRST FLOOR PLAN
PLUMBING
DEMOLITION

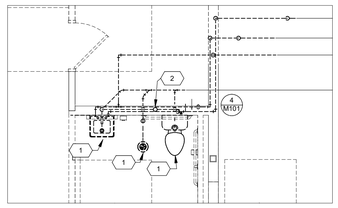
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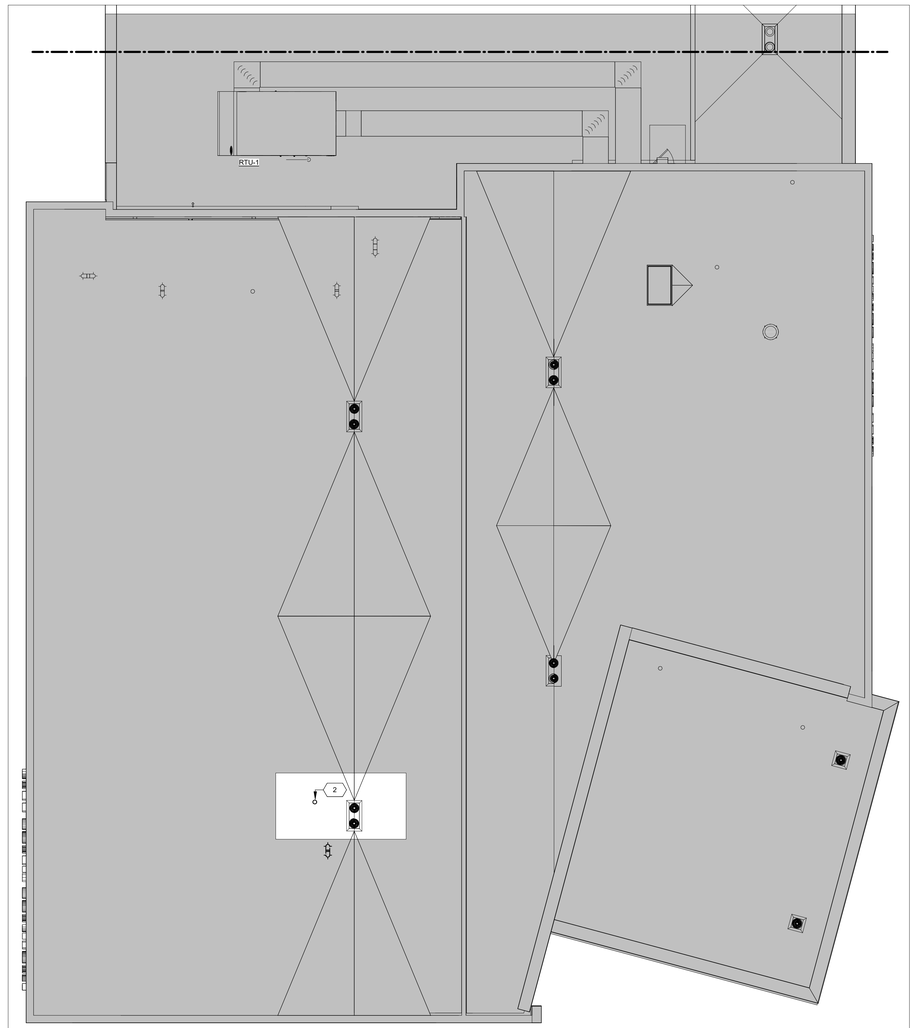
1 M102 SECOND FLOOR PLAN - AREA A - PLUMBING DEMOLITION PLAN - ALTERNATE BID 1
1/8" = 1'-0"



2 M102 SECOND FLOOR PLAN - AREA A1 - BELOW FF PLUMBING DEMOLITION PLAN - ALTERNATE BID 1
1/4" = 1'-0"



3 M102 SECOND FLOOR PLAN - AREA A2 - BELOW FF PLUMBING DEMOLITION PLAN - ALTERNATE BID 1
1/4" = 1'-0"



4 M102 ROOF - AREA A - PLUMBING DEMOLITION PLAN - ALTERNATE BID 1
1/8" = 1'-0"

KEYNOTE LEGEND	
1	REMOVE FIXTURE, CUT AND CAP OFF ASSOCIATED PIPE CONNECTIONS
2	CAP OFF EXISTING VENT PIPE AND ABANDONED.

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

PLUMBING FIXTURE CONNECTIONS

FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

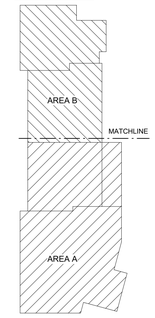
PIPING LEGEND

- ABOVEGROUND WASTE
- UGW — UNDERGROUND WASTE
- VENT
- RC — RAIN CONDUCTOR
- CW — DOMESTIC COLD WATER
- DOMESTIC COLD WATER
- HW — DOMESTIC HOT WATER
- DOMESTIC HOT WATER
- RHW — RECIRC HOT WATER
- RECIRC HOT WATER
- HWS — HOT WATER HTG SUPPLY
- HWR — HOT WATER HTG RETURN
- HWR — HOT WATER HTG RETURN
- HEAT PUMP SUPPLY
- HPR — HEAT PUMP RETURN
- HPR — HEAT PUMP RETURN
- COND — CONDENSATE DRAIN
- RS — REFRIGERANT LINE SET
- GEOTHERM WS — GEOTHERMAL WELL WATER SUPPLY
- GEOTHERM WR — GEOTHERMAL WELL WATER RETURN
- CONNECT TO EXISTING

PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI / FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

KEY PLAN



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

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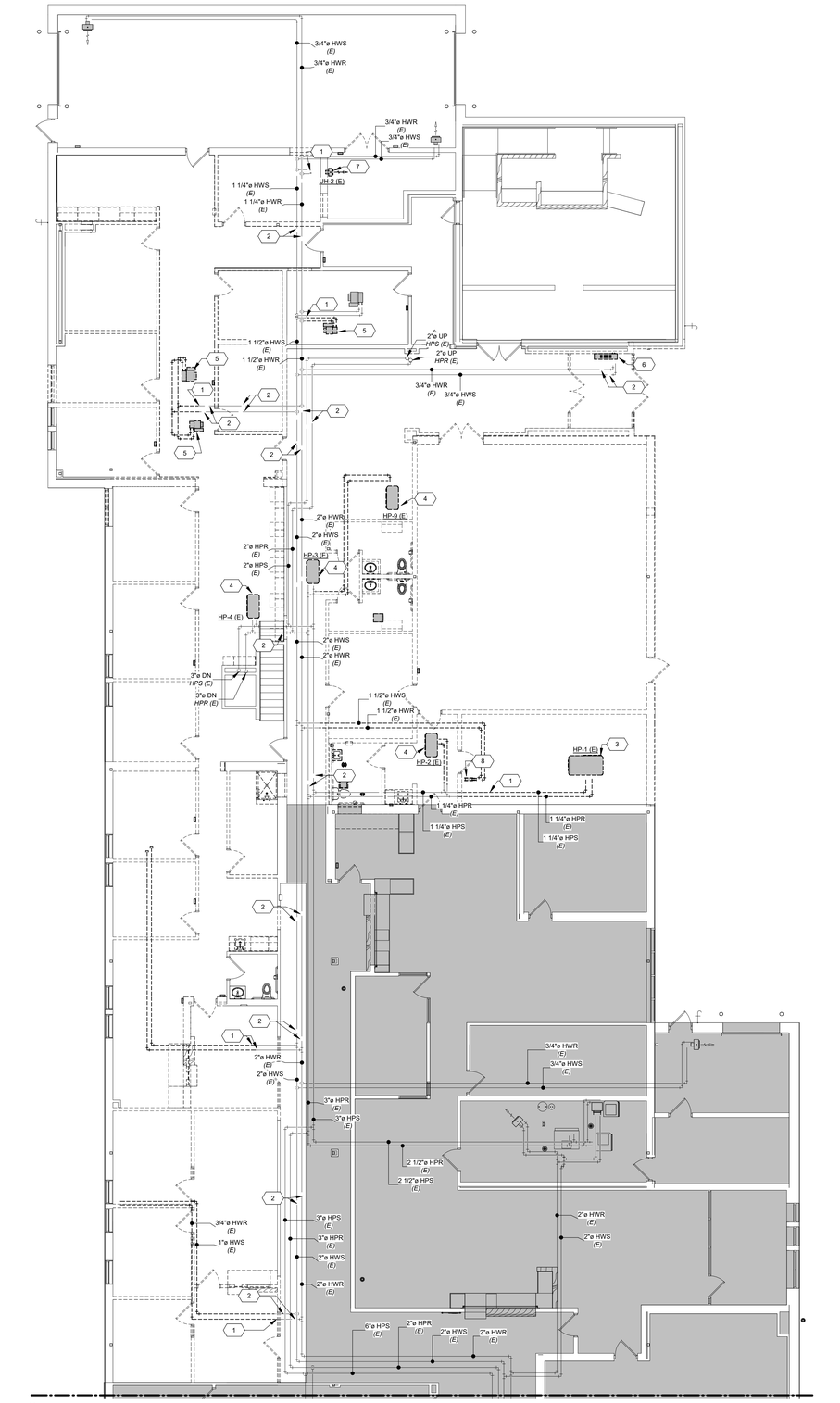
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DATE 10/21/2025
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PROJECT 24146
SHEET **M102**
SECOND FLOOR PLAN PLUMBING DEMOLITION

10/21/2025 10:51:32 AM



2 M103 — FIRST FLOOR PLAN - AREA B - MECHANICAL PIPING DEMOLITION - BASE BID

1/8" = 1'-0"

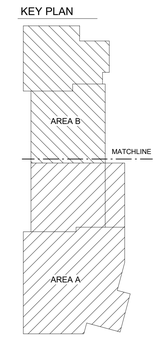
KEYNOTE LEGEND	
1	CUT AND REMOVE EXISTING HYDRONIC SUPPLY AND RETURN PIPING. CAP EXISTING PIPE NOT MARKED FOR REMOVAL.
2	CUT INTO EXISTING HYDRONIC SUPPLY AND RETURN PIPING. PREPARE FOR NEW CONNECTIONS.
3	CUT AND CAP OFF EXISTING CONNECTIONS. PREPARE FOR HEAT PUMP RE-LOCATION.
4	CUT EXISTING CONNECTIONS PREPARE FOR HEAT PUMP FOR NEW LOCATION.
5	CUT AND REMOVE PIPING CONNECTING TO VAV TERMINAL AND ASSOCIATED CONTROLS. PREPARE VAV TERMINAL FOR RE-LOCATION.
6	REMOVE AND PREPARE CABINET UNIT HEATER FOR RE-LOCATION. CAP OFF EXISTING CONNECTIONS.
7	CUT AND REMOVE PIPE CONNECTIONS TO UNIT HEATER. CAP OFF EXISTING PIPING. PREPARE TO RE-LOCATE EXISTING UNIT HEATER.
8	CUT AND CAP OFF EXISTING HYDRONIC CONNECTIONS. PREPARE TO MOVE EXISTING DUCT HEATER.

PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND	
	ABOVEGROUND WASTE
UGW	UNDERGROUND WASTE
	VENT
RC	RAIN CONDUCTOR
CW	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
RHW	RECIRC HOT WATER
	RECIRC HOT WATER
HWS	HOT WATER HTG SUPPLY
HWR	HOT WATER HTG RETURN
HWR	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HPR	HEAT PUMP RETURN
COND	CONDENSATE DRAIN
RS	REFRIGERANT LINE SET
GEOTHERM WS	GEOTHERMAL WELL WATER SUPPLY
GEOTHERM WR	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

KEY PLAN



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

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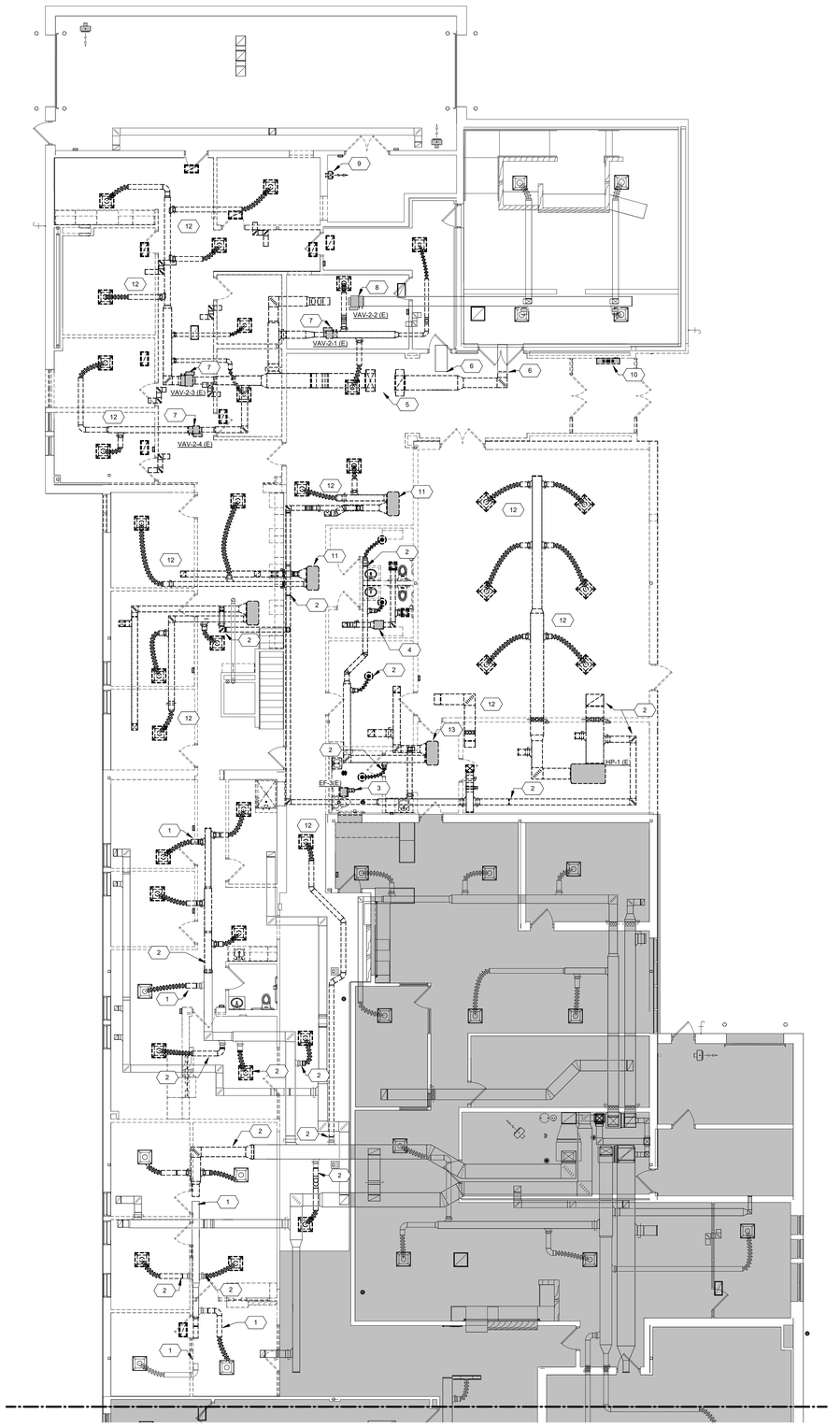
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PE-7110
DATE 10/21/25
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DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET M103
FIRST FLOOR PLAN MECH PIPE DEMOLITION

10/21/2025 10:51:35 AM



2 M104 FIRST FLOOR PLAN - AREA B - MECHANICAL HVAC DEMOLITION - BASE BID

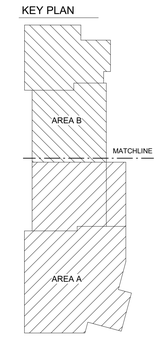
1/8" = 1'-0"

KEYNOTE LEGEND	
1	CUT AND PREPARE EXISTING DUCTWORK FOR VAV INSTALLATION.
2	CUT AND REMOVE DUCT WORK MARKED FOR REMOVAL. CAP OFF CONNECTION TO EXISTING DUCT.
3	PREPARE EXHAUST FAN FOR RELOCATION. REMOVE DUCT WORK AND EXISTING GOOSE NECK ABOVE ROOF. G.C. TO PATCH ROOF PENETRATIONS.
4	REMOVE EXHAUST FAN AND ASSOCIATED DUCTING. G.C. TO PROVIDE INSULATED CAP OVER DUCT CURB ON THE ROOF.
5	REMOVE ALL DUCT WORK MARKED FOR REMOVAL. COORDINATE WITH G.C. OF ROOF PENETRATIONS AND INSTALLATION OF NEW ROOF TOP AIR HANDLER.
6	CUT AND REMOVE EXISTING DUCT MARKED FOR REMOVAL. PREPARE FOR NEW DUCT CONNECTION
7	REMOVE ASSOCIATED DUCTING FROM VAV. PREPARE VAV FOR RELOCATION.
8	CUT AND REMOVE DUCTING FEEDING EXISTING VAV MARKED FOR REMOVAL. PREPARE VAV INLET FOR NEW DUCT CONNECTION.
9	CUT AND REMOVE PIPE CONNECTIONS TO UNIT HEATER. CAP OFF EXISTING PIPING. PREPARE TO RE-LOCATE EXISTING UNIT HEATER.
10	REMOVE AND PREPARE CABINET UNIT HEATER FOR RE-LOCATION. CAP OFF EXISTING CONNECTIONS.
11	CUT AND CAP OFF EXISTING CONNECTIONS. PREPARE FOR HEAT PUMP RE-LOCATION.
12	COMPLETELY REMOVE ALL DUCTWORK, DIFFUSERS, AND GRILLES MARKED FOR REMOVAL
13	CUT AND CAP EXISTING CONNECTIONS TO EXISTING HEAT PUMP. PREPARE HEAT PUMP FOR RE-LOCATION. REMOVE ASSOCIATED CONTROLS

HVAC LEGEND	
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
M 050 30"x30"	AIR TERMINAL TAG / AIR TERMINAL MARK / AIR TERMINAL CFM / AIR TERMINAL SIZE

LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

KEY PLAN



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

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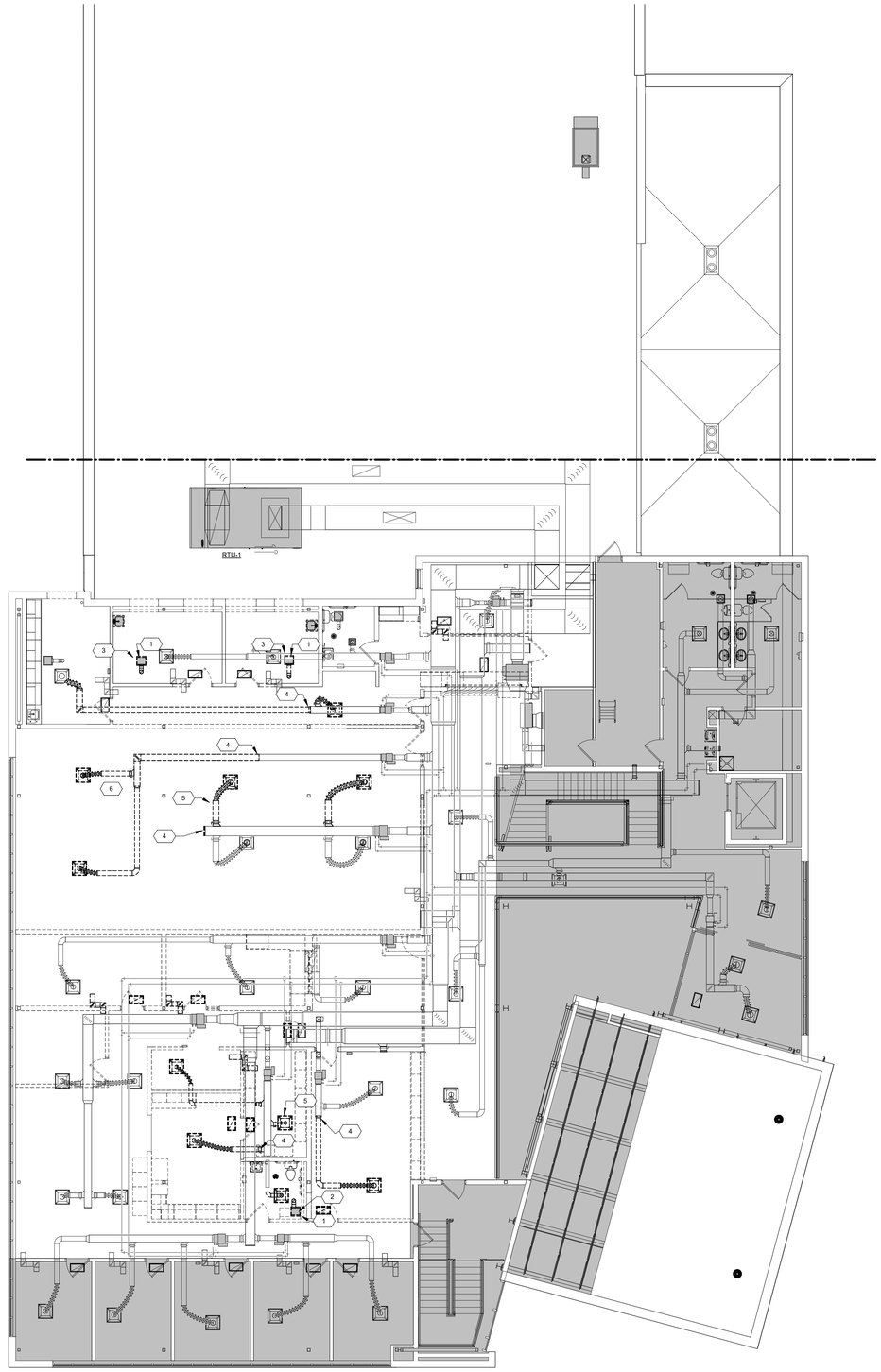
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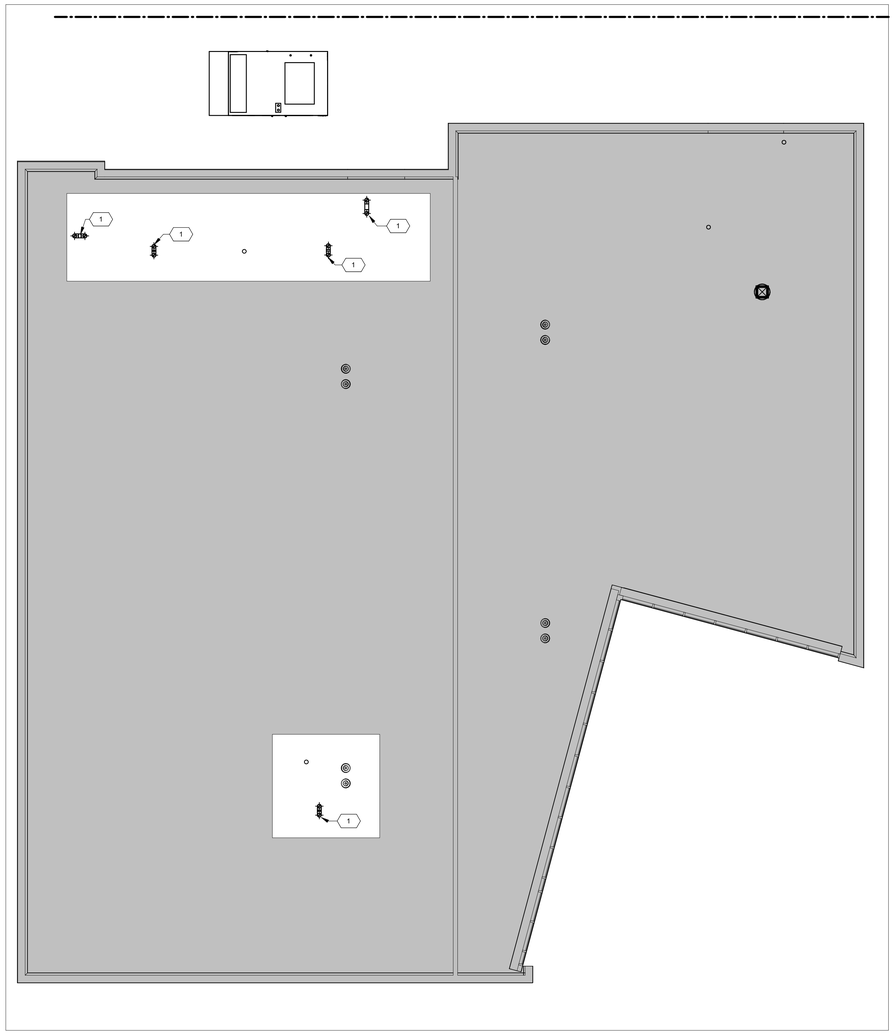
DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **M104**
FIRST FLOOR PLAN MECH HVAC DEMOLITION

10/21/2025 10:51:41 AM



1 M105 SECOND FLOOR PLAN - AREA A - MECHANICAL HVAC DEMOLITION - ALTERNATE BID 1

1/8" = 1'-0"



2 M105 ROOF PLAN - AREA A - HVAC DEMOLITION PLAN - ALTERNATE BID 1

1/8" = 1'-0"

KEYNOTE LEGEND

1	REMOVE EXHAUST FAN AND ASSOCIATED DUCTING. G.C. TO PROVIDE INSULATED CAP OVER DUCT CURB ON THE ROOF.
2	EXISTING EXHAUST FAN POSSIBLE USE FOR FLR 1 RESTROOM E173.
3	EXISTING EXHAUST FAN POSSIBLE USE FOR FLR 1 COURT ROOM LOBBY BATHROOM USE.
4	CUT AND REMOVE DUCT MARKED FOR DEMOLITION. PREPARE EXISTING DUCK FOR NEW DUCT CONNECTION
5	CUT AND REMOVE DUCT WORK MARKED FOR REMOVAL. CAP OFF CONNECTION TO EXISTING DUCT..
6	COMPLETELY REMOVE ALL DUCTWORK, DIFFUSERS, AND GRILLES MARKED FOR REMOVAL

LINE TYPE LEGEND

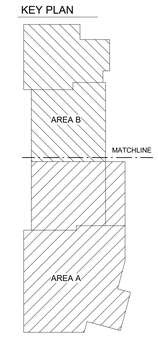
- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

HVAC LEGEND

- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- CONNECT TO EXISTING

M 999 30"X30" — AIR TERMINAL TAG, AIR TERMINAL MARK, AIR TERMINAL CFM, AIR TERMINAL SIZE

KEY PLAN



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

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REVISION SCHEDULE

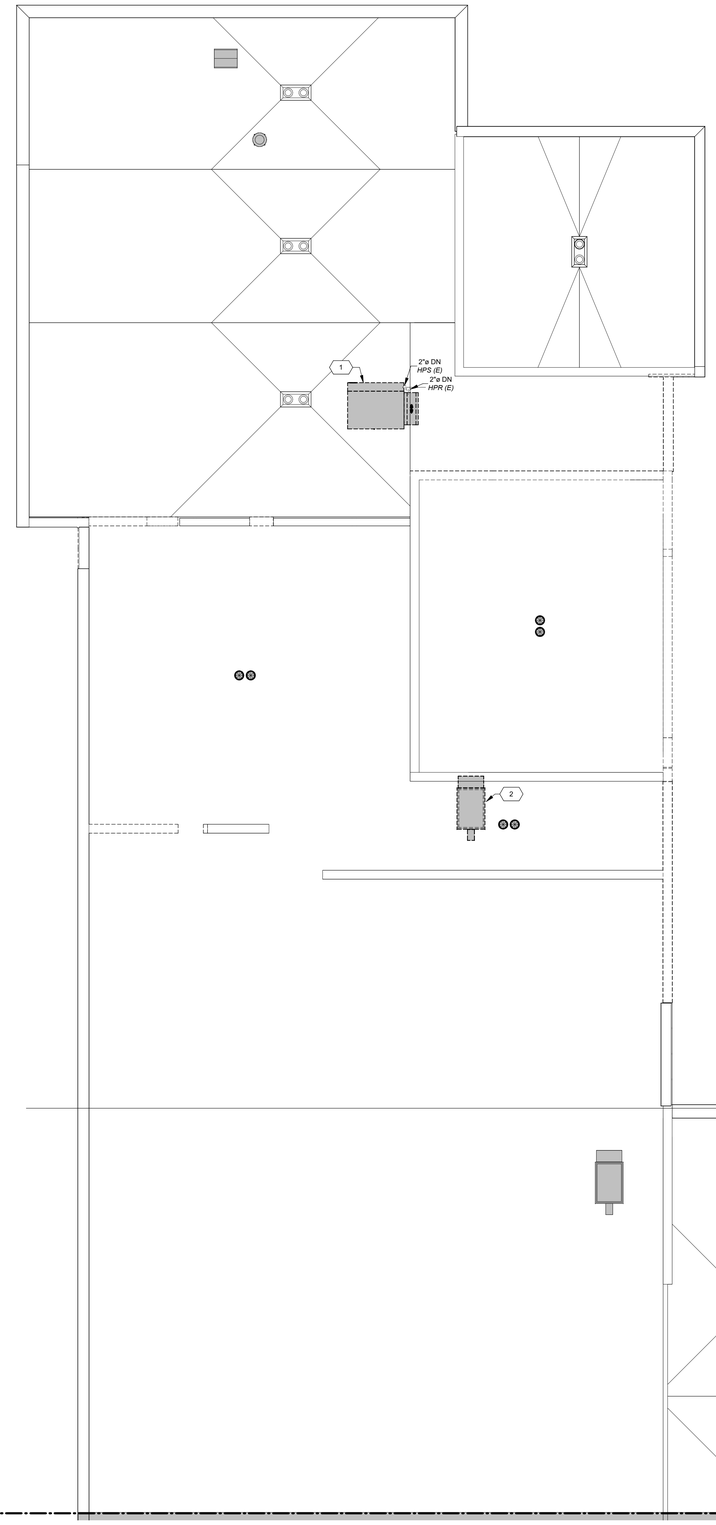
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MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **M105**
SECOND FLOOR PLAN MECH HVAC DEMOLITION

10/21/2025 10:51:48 AM



2 M106 ROOF PLAN - AREA B - MECHANICAL DEMOLITION - BASE BID
1/8" = 1'-0"

KEYNOTE LEGEND

1	DISCONNECT AND REMOVE PIPING AS REQUIRED. REMOVE EXISTING ROOF TOP UNIT. COORDINATE WITH G.C. TO PREPARE AREA AND EXISTING HYDRONIC PIPING FOR NEW ROOF TOP AIR HANDLER INSTALLATION.
2	CUT AND REMOVE DUCTING, PREPARE TO RELOCATE ERU FOR RE-LOCATION.

PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

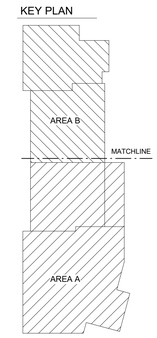
PIPING LEGEND

	ABOVEGROUND WASTE
UGW	UNDERGROUND WASTE
	VENT
RC	RAIN CONDUCTOR
CW	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
RHW	RECIRC HOT WATER
	RECIRC HOT WATER
HWS	HOT WATER HTG SUPPLY
HWR	HOT WATER HTG RETURN
HWR	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HPR	HEAT PUMP RETURN
COND	CONDENSATE DRAIN
RS	REFRIGERANT LINE SET
GEOTHERM WS	GEOTHERMAL WELL WATER SUPPLY
GEOTHERM WR	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

LINE TYPE LEGEND

	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

KEY PLAN



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

0' 4' 8' 12' 16'

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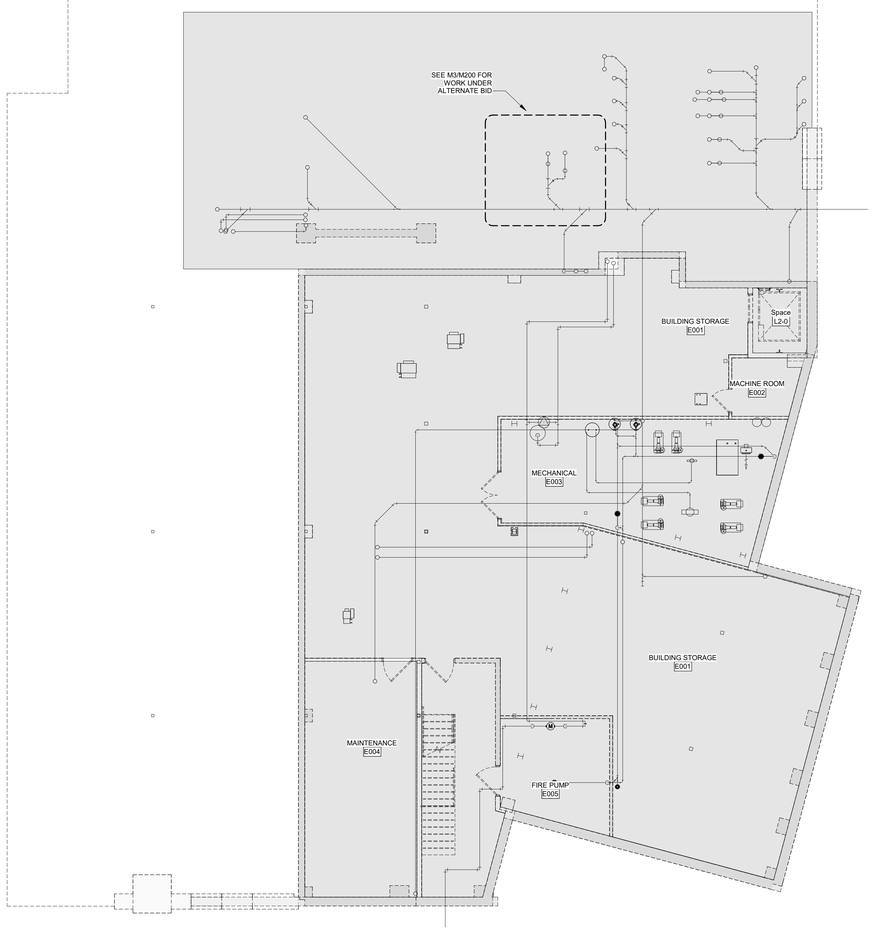
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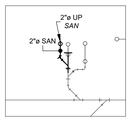
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
M106
ROOF PLAN MECHANICAL DEMOLITION

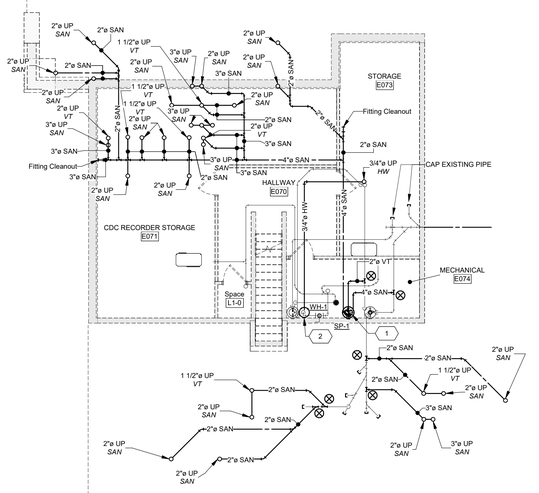
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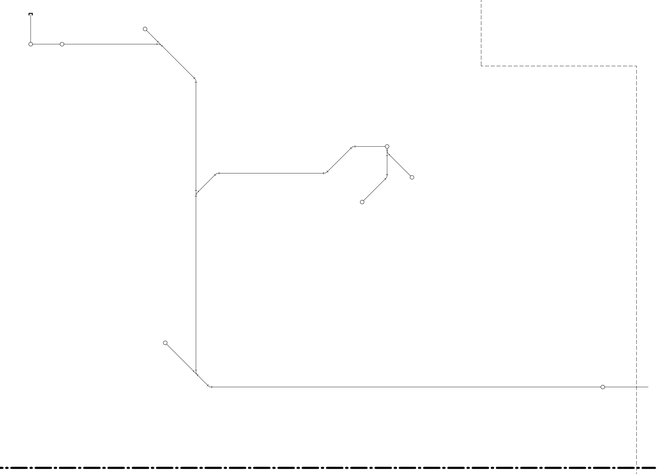


1 M200 FOUNDATION PLAN - AREA A - PLUMBING - BASE BID
1/8" = 1'-0"



3 M200 FOUNDATION PLAN - AREA A - PLUMBING - ALTERNATE BID 1
1/8" = 1'-0"





2 M200 FOUNDATION PLAN - AREA B - PLUMBING - BASE BID
1/8" = 1'-0"

KEYNOTE LEGEND	
1	INSTALLATION OF SEWAGE EJECTOR AND PIT. COORDINATE WITH G.C. FOR INSTALLATION.
2	M.C. SHALL RE-ADJUST EXISTING WATER HEATER RACK FOR NEW WATER HEATER INSTALLATION.

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

PLUMBING FIXTURE CONNECTIONS

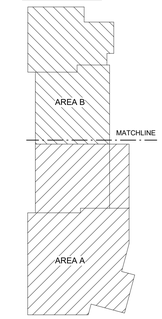
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

PIPING VALVE & ACCESSORY LEGEND

- BALL VALVE
- BALL VALVE
- BALL VALVE INDICATOR
- BUTTERFLY VALVE
- GATE VALVE
- VENTURI | FLOW MEASURING DEVICE
- CHECK VALVE
- 2-WAY HYDRONIC CONTROL VALVE
- 2-WAY DOMESTIC CONTROL VALVE
- 3-WAY CONTROL VALVE
- DRAIN VALVE
- STRAINER
- MANUAL AIR VENT
- AUTO AIR VENT
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- SENSOR
- CIRCUIT SOLVER
- UNION

PIPING LEGEND

- ABOVEGROUND WASTE
- UGW — UNDERGROUND WASTE
- VENT
- RC — RAIN CONDUCTOR
- CW — DOMESTIC COLD WATER
- DOMESTIC COLD WATER
- HW — DOMESTIC HOT WATER
- DOMESTIC HOT WATER
- RHW — RECIRC HOT WATER
- RECIRC HOT WATER
- HWS — HOT WATER HTG SUPPLY
- HWR — HOT WATER HTG RETURN
- HWR — HOT WATER HTG RETURN
- HEAT PUMP SUPPLY
- HPR — HEAT PUMP RETURN
- HPR — HEAT PUMP RETURN
- COND — CONDENSATE DRAIN
- RS — REFRIGERANT LINE SET
- GEOTHERM WS — GEOTHERMAL WELL WATER SUPPLY
- GEOTHERM WR — GEOTHERMAL WELL WATER RETURN
- CONNECT TO EXISTING



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

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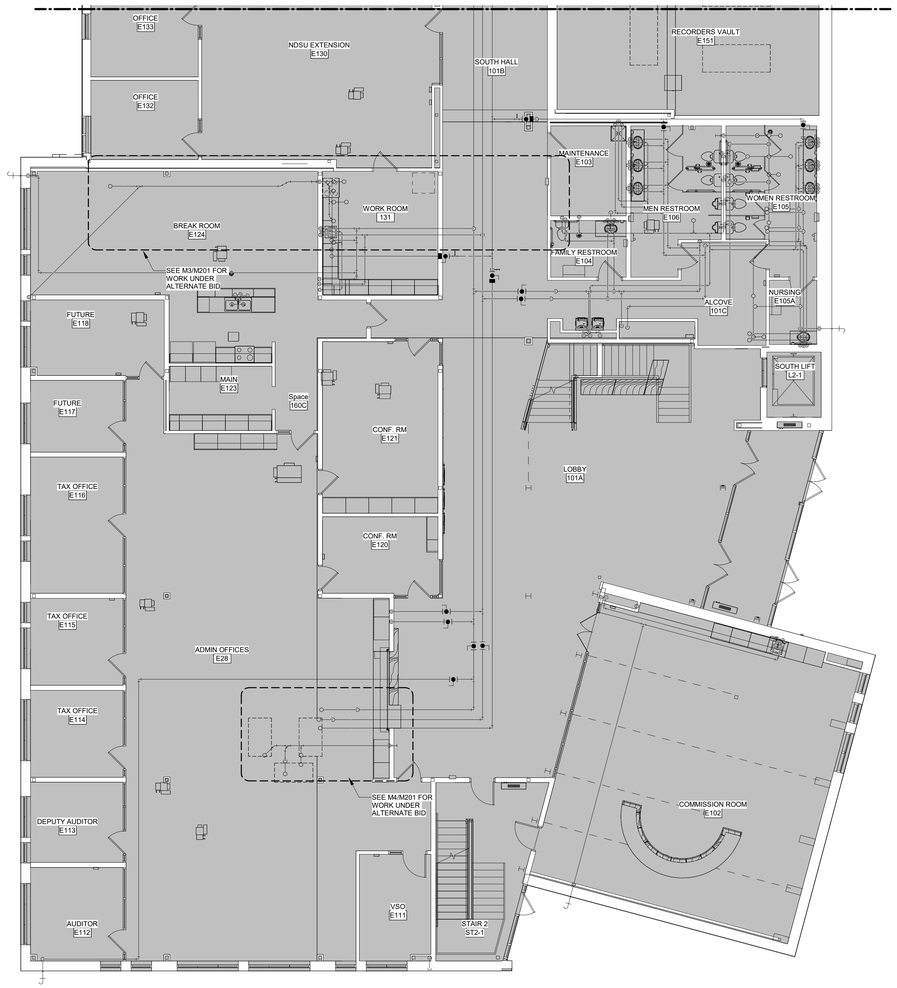
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PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
M200
FOUNDATION PLUMBING PLAN

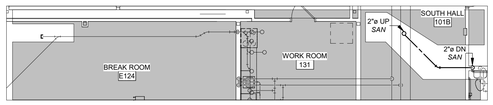
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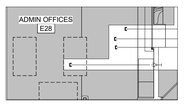
1 M201 FIRST FLOOR PLAN - AREA A - PLUMBING - BASE BID

1/8" = 1'-0"



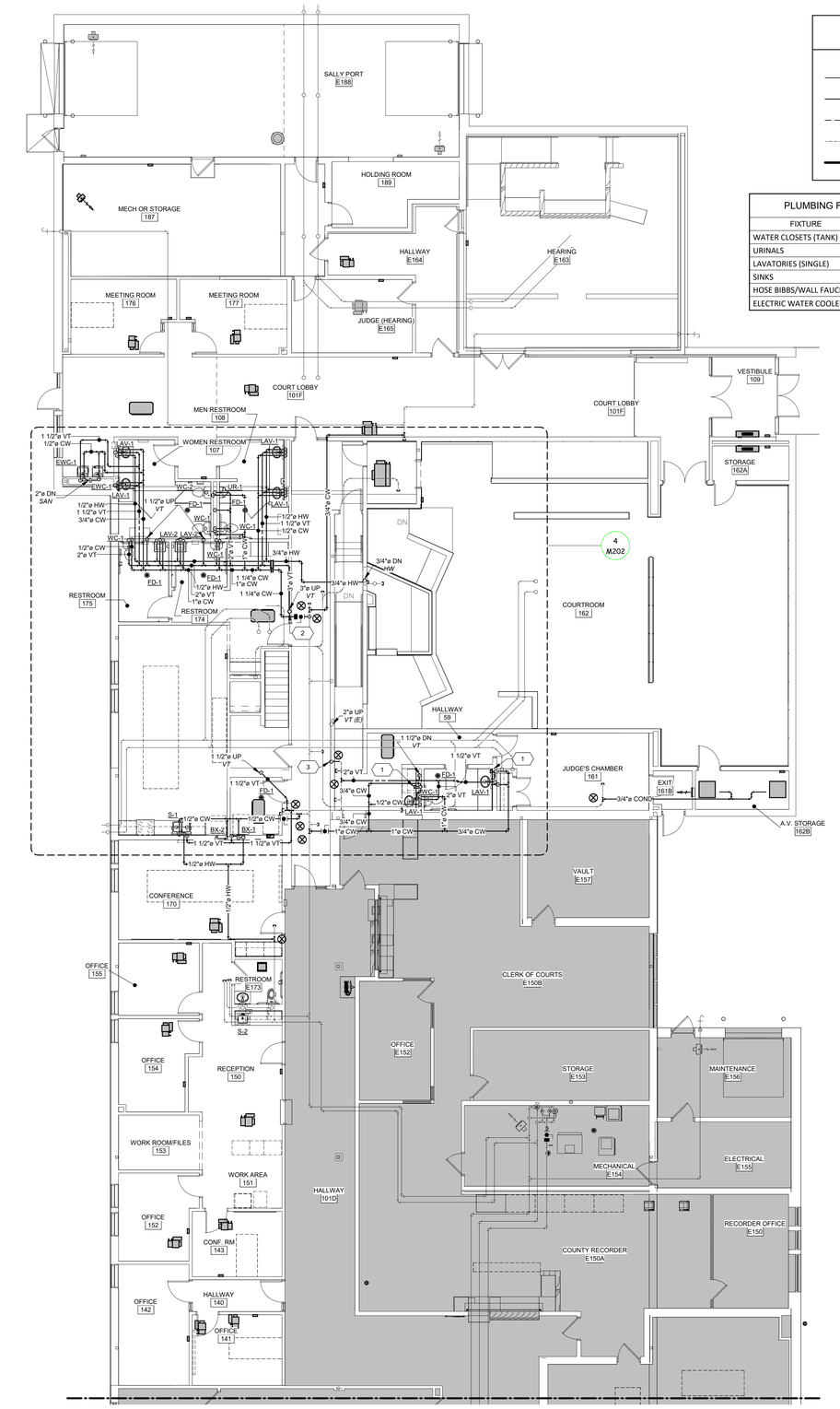
3 M201 FIRST FLOOR PLAN - AREA A1 - PLUMBING - ALTERNATE BID 1

1/8" = 1'-0"



4 M201 FIRST FLOOR PLAN - AREA A2 - PLUMBING - ALTERNATE BID 1

1/8" = 1'-0"



2 M201 FIRST FLOOR PLAN - AREA B - PLUMBING - BASE BID

1/8" = 1'-0"

KEYNOTE LEGEND	
1	EXISTING WATER HEATER LOCATION.
2	COORDINATE WITH G.C. FOR FINAL VENT LOCATION PENETRATING THROUGH ROOF.
3	CONNECT INTO EXISTING VENT PIPING GOING UP AND THROUGH THE ROOF.

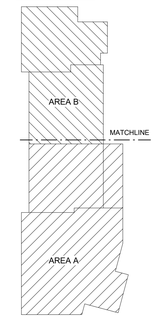
LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

PLUMBING FIXTURE CONNECTIONS			
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND	
	ABOVEGROUND WASTE
UGW	UNDERGROUND WASTE
	VENT
RC	RAIN CONDUCTOR
CW	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
RHW	RECIRC HOT WATER
	RECIRC HOT WATER
HWS	HOT WATER HTG SUPPLY
HWR	HOT WATER HTG RETURN
HWR	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HPR	HEAT PUMP RETURN
COND	CONDENSATE DRAIN
RS	REFRIGERANT LINE SET
GEOTHERM WS	GEOTHERMAL WELL WATER SUPPLY
GEOTHERM WR	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

KEY PLAN



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

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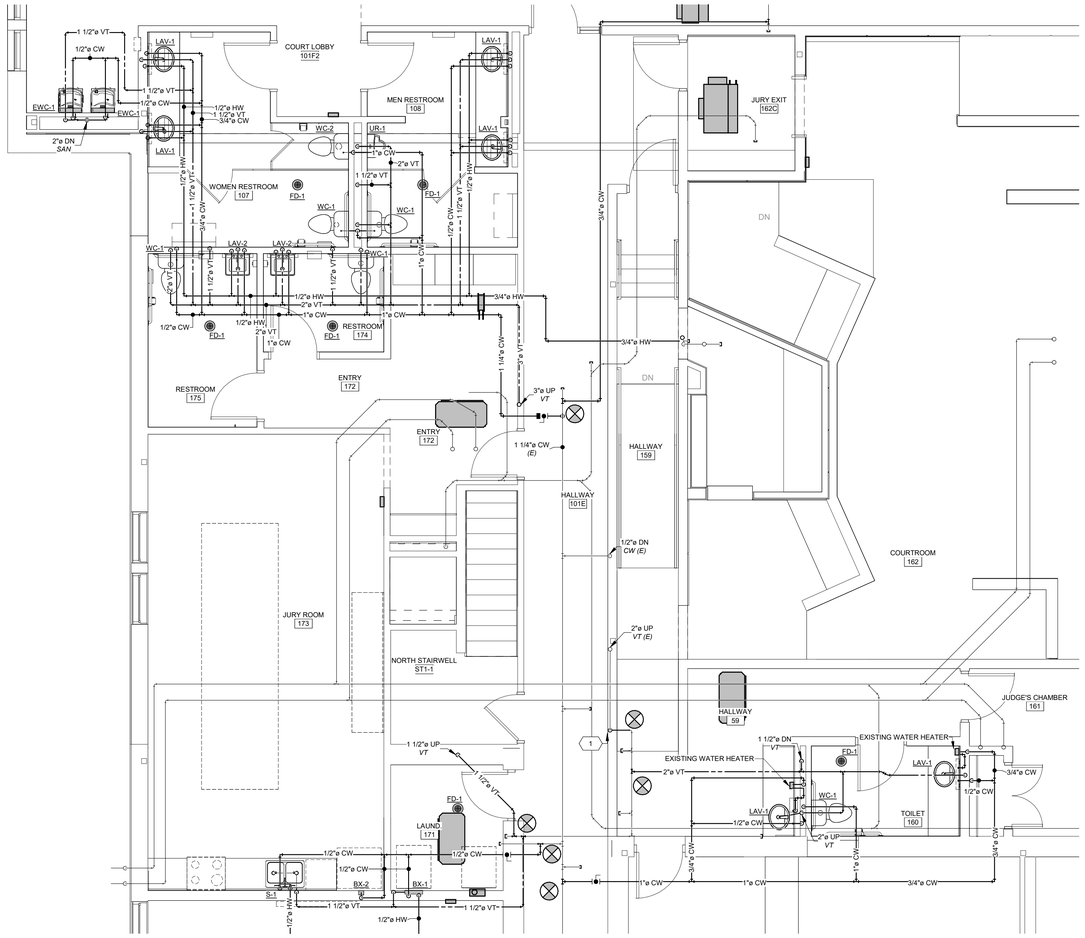
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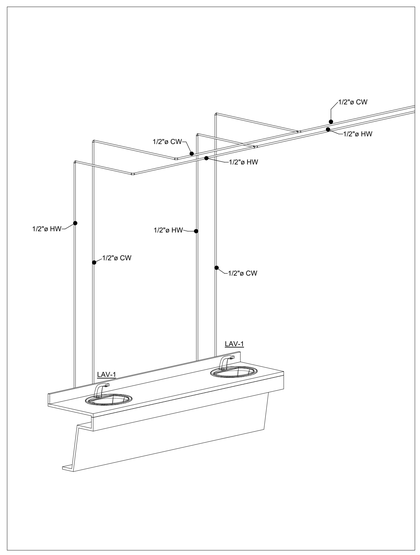
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PROJECT 24146
SHEET M201
FIRST FLOOR PLAN PLUMBING

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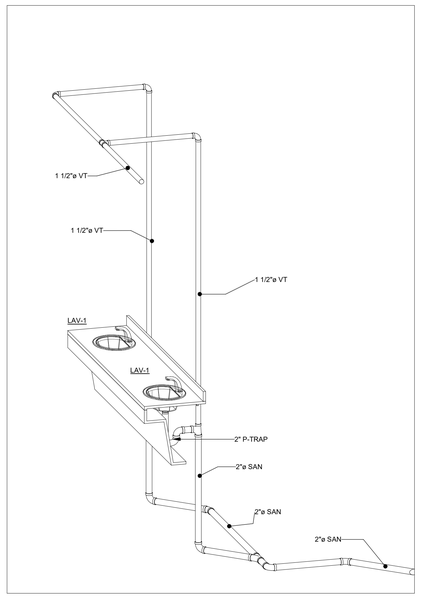


4 M202 FIRST FLOOR PLAN - ENLARGED PLUMBING - AREA B - BASE BID

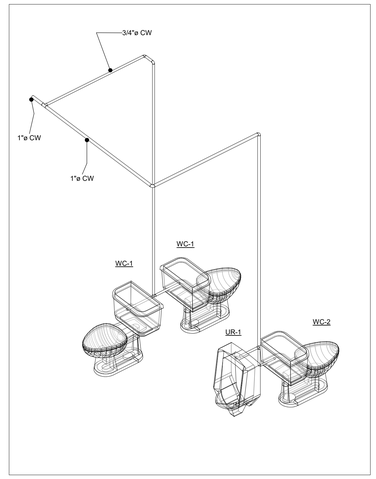
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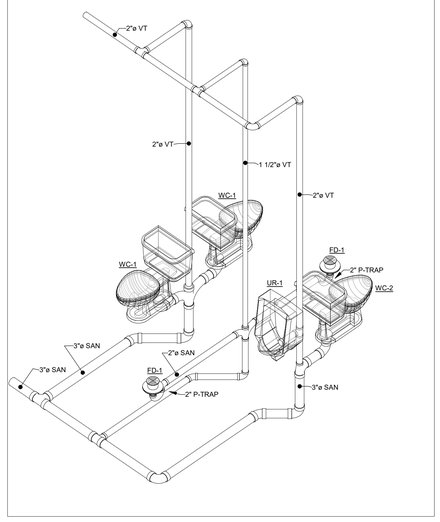
5 M202 LAVATORY SUPPLY RISER



6 M202 LAVATORY WASTE RISER



1 M202 ROOM 107 AND 108 WATER SUPPLY



2 M202 ROOM 107 AND 108 WASTE RISER

PIPING LEGEND

———	ABOVEGROUND WASTE
—UGW—	UNDERGROUND WASTE
- - - -	VENT
—RC—	RAIN CONDUCTOR
—CW—	DOMESTIC COLD WATER
—·—·—	DOMESTIC COLD WATER
—HW—	DOMESTIC HOT WATER
—·—·—	DOMESTIC HOT WATER
—RHW—	RECIRC HOT WATER
—·—·—	RECIRC HOT WATER
—HWS—	HOT WATER HTG SUPPLY
—HWR—	HOT WATER HTG RETURN
- -HWR- -	HOT WATER HTG RETURN
———	HEAT PUMP SUPPLY
—HPR—	HEAT PUMP RETURN
- -HPR- -	HEAT PUMP RETURN
—COND—	CONDENSATE DRAIN
—RS—	REFRIGERANT LINE SET
—GEOTHERM WS—	GEOTHERMAL WELL WATER SUPPLY
- GEOTHERM WR -	GEOTHERMAL WELL WATER RETURN
⊗	CONNECT TO EXISTING

PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

LINE TYPE LEGEND

———	EXISTING
———	NEW
- - - -	REMOVE
-------	HIDDEN
—·—	MATCHLINE

PLUMBING FIXTURE CONNECTIONS

FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

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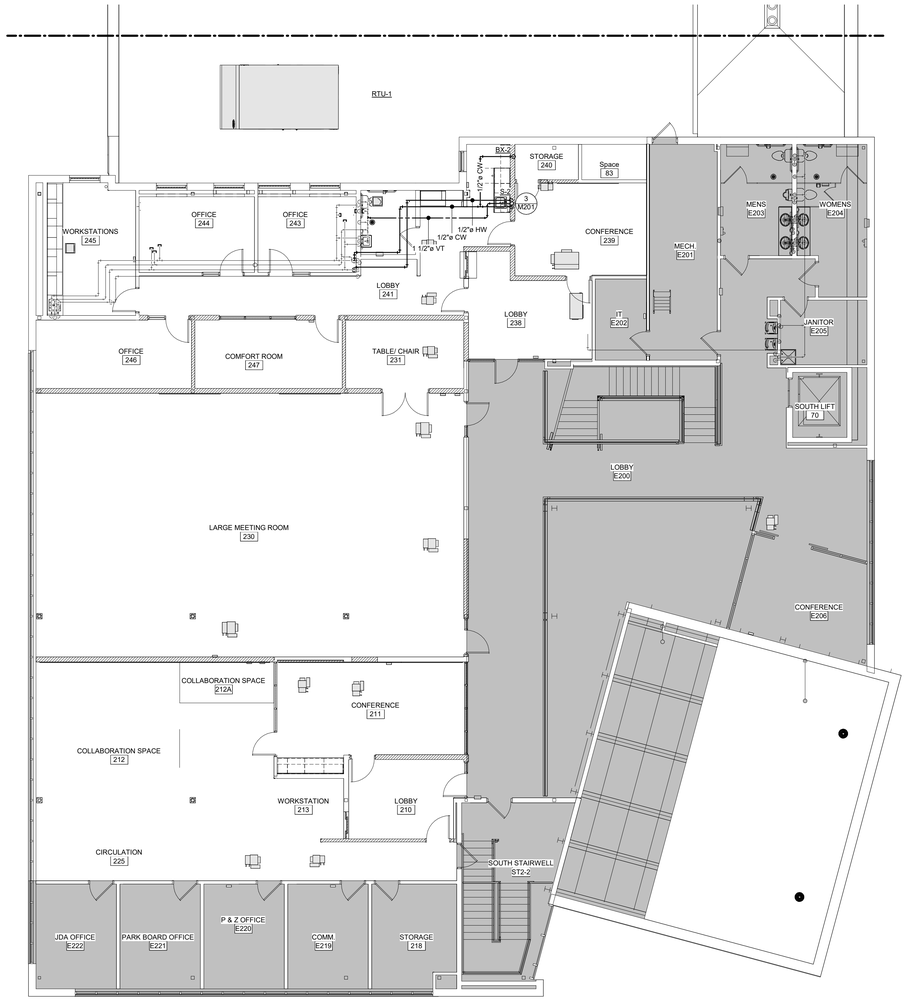
DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **M202**
FIRST FLOOR PLAN PLUMBING

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

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1 M203 SECOND FLOOR PLAN - AREA A - PLUMBING - ALTERNATE BID 1

1/8" = 1'-0"

PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

LINE TYPE LEGEND

	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

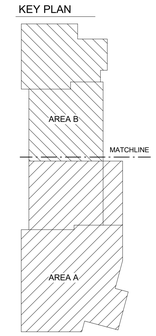
PIPING LEGEND

	ABOVEGROUND WASTE
UGW	UNDERGROUND WASTE
	VENT
RC	RAIN CONDUCTOR
CW	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
RHW	RECIRC HOT WATER
	RECIRC HOT WATER
HWS	HOT WATER HTG SUPPLY
HWR	HOT WATER HTG RETURN
HWR	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HPR	HEAT PUMP RETURN
COND	CONDENSATE DRAIN
RS	REFRIGERANT LINE SET
GEOTHERM WS	GEOTHERMAL WELL WATER SUPPLY
GEOTHERM WR	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

PLUMBING FIXTURE CONNECTIONS

FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

KEY PLAN



0' 4' 8' 12' 16'

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

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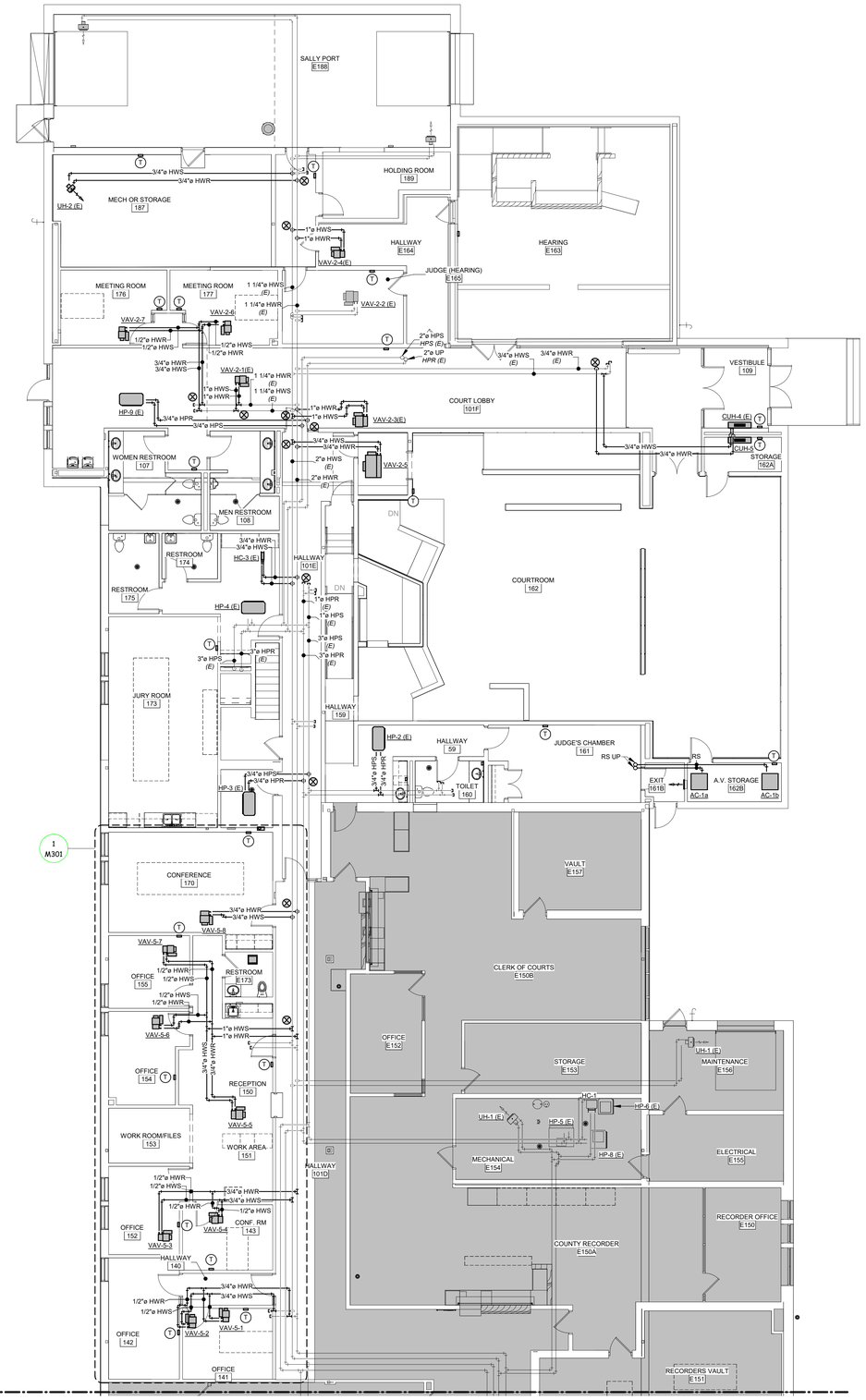
PROJECT
24146

SHEET
M203

SECOND FLOOR PLAN PLUMBING

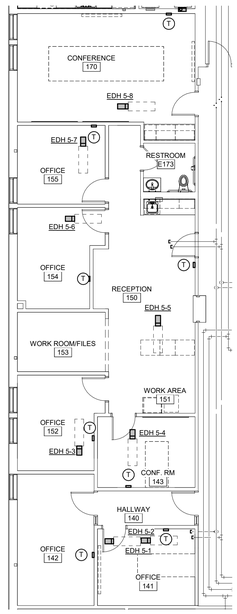
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2 M301 FIRST FLOOR PLAN - AREA B - MECHANICAL PIPING - BASE BID

1/8" = 1'-0"



1 M301 FIRST FLOOR PLAN - AREA B - MECHANICAL PIPING - ALTERNATE BID 2

1/8" = 1'-0"

LINE TYPE LEGEND

———	EXISTING
———	NEW
- - - -	REMOVE
·····	HIDDEN
——•——	MATCHLINE

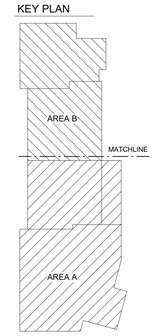
PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI | FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND

—— - - ——	ABOVEGROUND WASTE
——UGW——	UNDERGROUND WASTE
—— - - ——	VENT
——RC——	RAIN CONDUCTOR
——CW——	DOMESTIC COLD WATER
——·——	DOMESTIC COLD WATER
——HW——	DOMESTIC HOT WATER
——·——	DOMESTIC HOT WATER
——RHW——	RECIRC HOT WATER
——·——	RECIRC HOT WATER
——HWS——	HOT WATER HTG SUPPLY
——HWR——	HOT WATER HTG RETURN
——HWR— —	HOT WATER HTG RETURN
———	HEAT PUMP SUPPLY
——HPR——	HEAT PUMP RETURN
——HPR— —	HEAT PUMP RETURN
——COND——	CONDENSATE DRAIN
——RS——	REFRIGERANT LINE SET
—GEOTHERM WS—	GEOTHERMAL WELL WATER SUPPLY
—GEOTHERM WR—	GEOTHERMAL WELL WATER RETURN
⊗	CONNECT TO EXISTING

KEY PLAN



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

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DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET M301

FIRST FLOOR PLAN MECH PIPE

10/21/2025 10:52:24 AM

KEYNOTE LEGEND	
1	FROM 2010 BUILDING MODIFICATION/ADDITION

SECOND LEVEL

MAIN LEVEL

VAV-1-24 (E) 7.2 GPM
VAV-1-15 (E) 1.8 GPM
VAV-1-14 (E) 2.7 GPM
VAV-1-13 (E) 4.0 GPM
VAV-1-16 (E) 2.9 GPM
VAV-1-17 (E) 5.9 GPM
VAV-1-25 (E) 4.0 GPM
VAV-1-18 (E) 3.6 GPM
VAV-1-19 (E) 2.9 GPM
VAV-1-20 (E) 3.6 GPM
VAV-1-21 (E) 5.9 GPM
VAV-1-22 (E) 4.5 GPM
VAV-1-23 (E) 2.9 GPM
VAV-1-5 (E) 4.8 GPM
VAV-1-4 (E) 5.9 GPM
VAV-1-6 (E) 7.4 GPM
VAV-1-3 (E) 6.3 GPM
CUH-1 (E) 1.9 GPM
CUH-2 (E) 1.9 GPM
CUH-3 (E) 1.9 GPM
VAV-1-27 (E) 2.9 GPM
VAV-1-26 (E) 2.9 GPM
VAV-1-7 (E) 3.8 GPM
VAV-1-8 (E) 3.8 GPM
VAV-1-9 (E) 2.9 GPM
VAV-1-10 (E) 4.0 GPM
VAV-1-11 (E) 1.8 GPM
HC-1 (E) 3.5 GPM
UH-1 (E) 1.7 GPM
VAV-5-1 1.0 GPM
VAV-5-2 1.0 GPM
VAV-5-3 1.0 GPM
VAV-5-4 1.0 GPM
UH-1 (E) 3.4 GPM
VAV-5-5 2.0 GPM
VAV-5-6 1.0 GPM
VAV-5-7 1.0 GPM
VAV-5-8 2.0 GPM
HC-3 (E) 3.8 GPM
VAV-2-5 3.0 GPM
VAV-2-3 (E) 4.5 GPM
VAV-2-1 (E) 3.6 GPM
VAV-2-6 1.0 GPM
VAV-2-7 1.0 GPM
CUH-5 1.9 GPM
CUH-4 (E) 1.9 GPM
VAV-2-2 (E) 5.9 GPM
VAV-2-4 3.6 GPM
UH-2 (E) 1.7 GPM
UH-3 (E) 3.4 GPM
UH-4 (E) 3.4 GPM

MAIN LEVEL

LOWER LEVEL

VAV-1-2 (E) 1.8 GPM
VAV-1-12 (E) 7.4 GPM
VAV-1-1 (E) 6.9 GPM

MECHANAICAL ROOM

GEOTHERMAL WELLS

MAIN SHUT OFF VALVES IN MECHANICAL ROOM
500GPM FMD
40GPM FMD

UH-5 (E) 1.7 GPM
MANUAL AIR VENT
MAIN SHUT OFF VALVES IN MECHANICAL ROOM
5 GPM FLOW INDICATOR W/ SIGHT GLASS
SIDESTREAM FILTER
FMD
BUTTERFLY VALVE
NON SLAM CHECK VALVE
FLEX PUMP CONNECTION
INCREASER
SUCTION DIFFUSER W/ STRAINER
P-6 (E)
4" CONCRETE PAD
P-5 (E)
AUTOMATIC VENT
PRESSURE GAUGE
THERMAL TRAP
CAPPED BALL VALVE DRAIN
ET-1 (E)
4" CONCRETE PAD
AIR SEPARATOR
AS-1 (E)
DOUBLE CHECK VALVE
GLYCOL FEED SYSTEM
INITIAL SYSTEM FILL AND FLUSH CONNECTION
GFP-1 (E)
4" CONCRETE PAD
AS-2 (E)
INITIAL SYSTEM FILL AND FLUSH CONNECTION
RELIEF DISCHARGE LINE TO GLYCOL BARREL 75 PSI
P-2 (E)
P-1 (E)
THERMAL TRAP
ET-2 (E)
P-3 (E)
P-4 (E)
BALANCE VALVE
STRAINER
THERMOSTAT
THERMOMETER
WWHP-1 (E)
HEADER BYPASS VALVE
4" CONCRETE PAD
PRESSURE RELIEF
FLOW SWITCH
BLANK OFF PLATE
ET-3 (E)
FMD

ROOF

RTU-1 (E) 195.0 GPM
HP-2 45.0 GPM
HP-1 (E) 3.0 GPM
HP-3 (E) 2.8 GPM
HP-2 (E) 2.8 GPM
HP-4 (E) 2.8 GPM
HP-9 (E) 2.1 GPM
HP-5 (E) 30.0 GPM
HP-6 (E) 9.7 GPM
HP-7 (E) 14.5 GPM
HP-8 (E) 2.8 GPM
HP-2 (E) 3.0 GPM

1 M303 HYDRONIC SYSTEM SCHEMATIC
NTS

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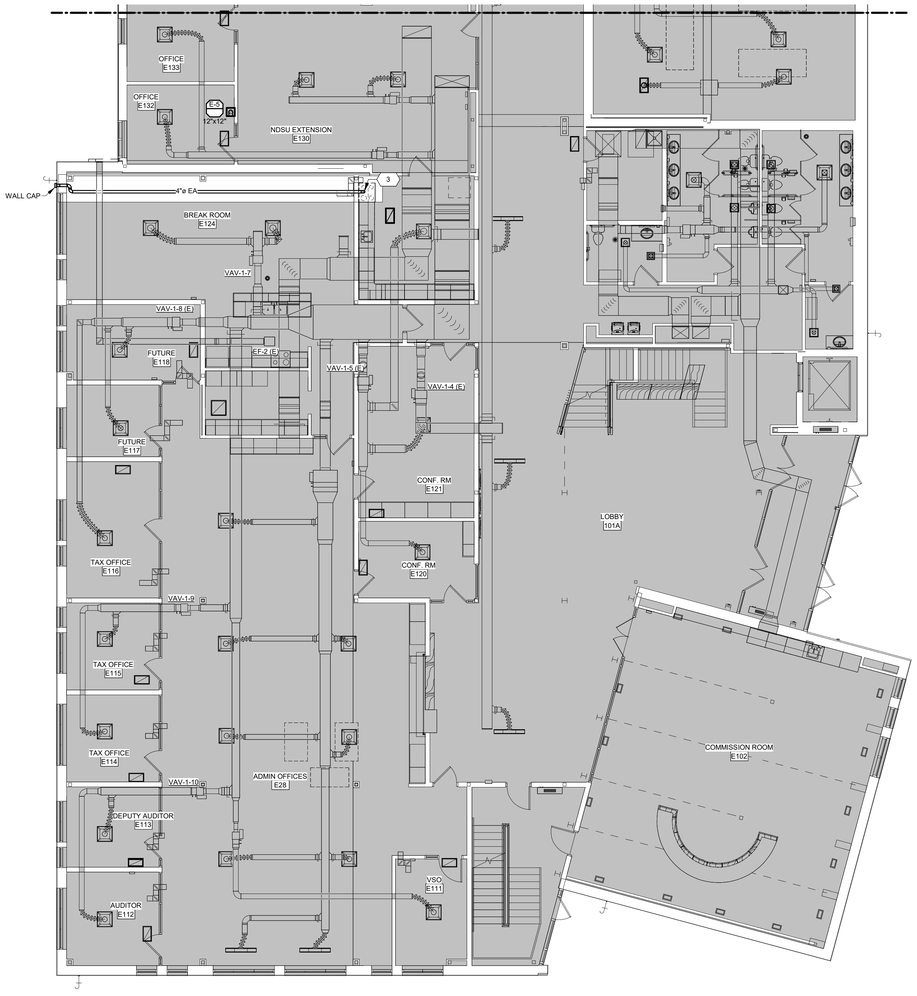
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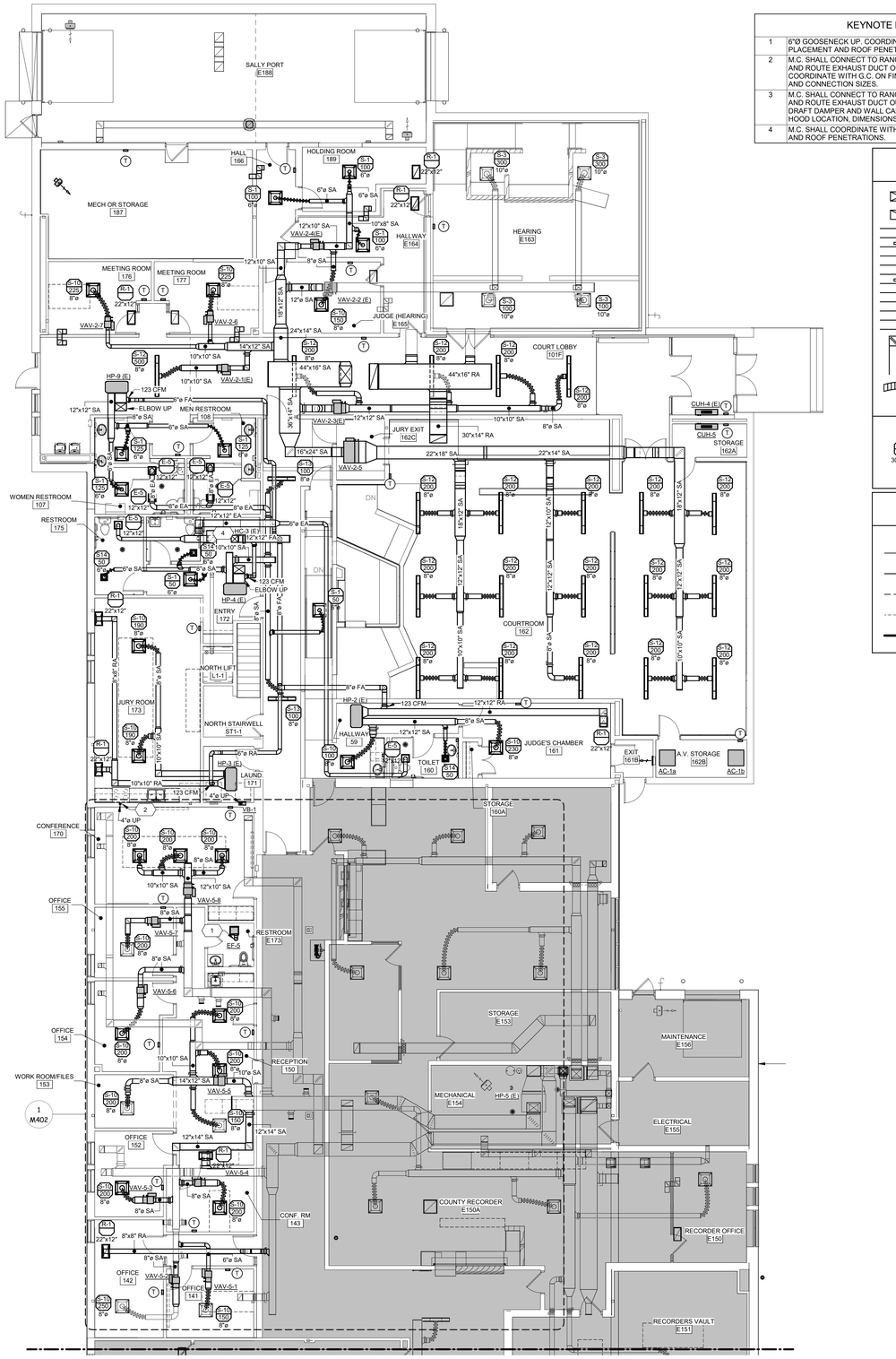
DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET M303
HYDRONIC SYSTEM SCHEMATIC

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1 M401 FIRST FLOOR PLAN - AREA A - HVAC - BASE BID

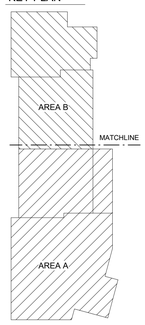
1/8" = 1'-0"



2 M401 FIRST FLOOR PLAN - AREA B - HVAC - BASE BID

1/8" = 1'-0"

KEY PLAN



KEYNOTE LEGEND

1	6"Ø GOOSENECK UP. COORDINATE WITH M.C. FOR FINAL PLACEMENT AND ROOF PENETRATION.
2	M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUTE EXHAUST DUCT OUT THE ROOF WITH GOOSENECK. COORDINATE WITH G.C. ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
3	M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUTE EXHAUST DUCT OUT NEAREST WALL WITH BACK DRAFT DAMPER AND WALL CAP. COORDINATE WITH G.C. ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
4	M.C. SHALL COORDINATE WITH G.C. FOR FINAL ERU LOCATION AND ROOF PENETRATIONS.

HVAC LEGEND

- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- CONNECT TO EXISTING
- AIR TERMINAL TAG
- AIR TERMINAL MARK
- AIR TERMINAL CFM
- AIR TERMINAL SIZE

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

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SHEET M401
FIRST FLOOR PLAN HVAC

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

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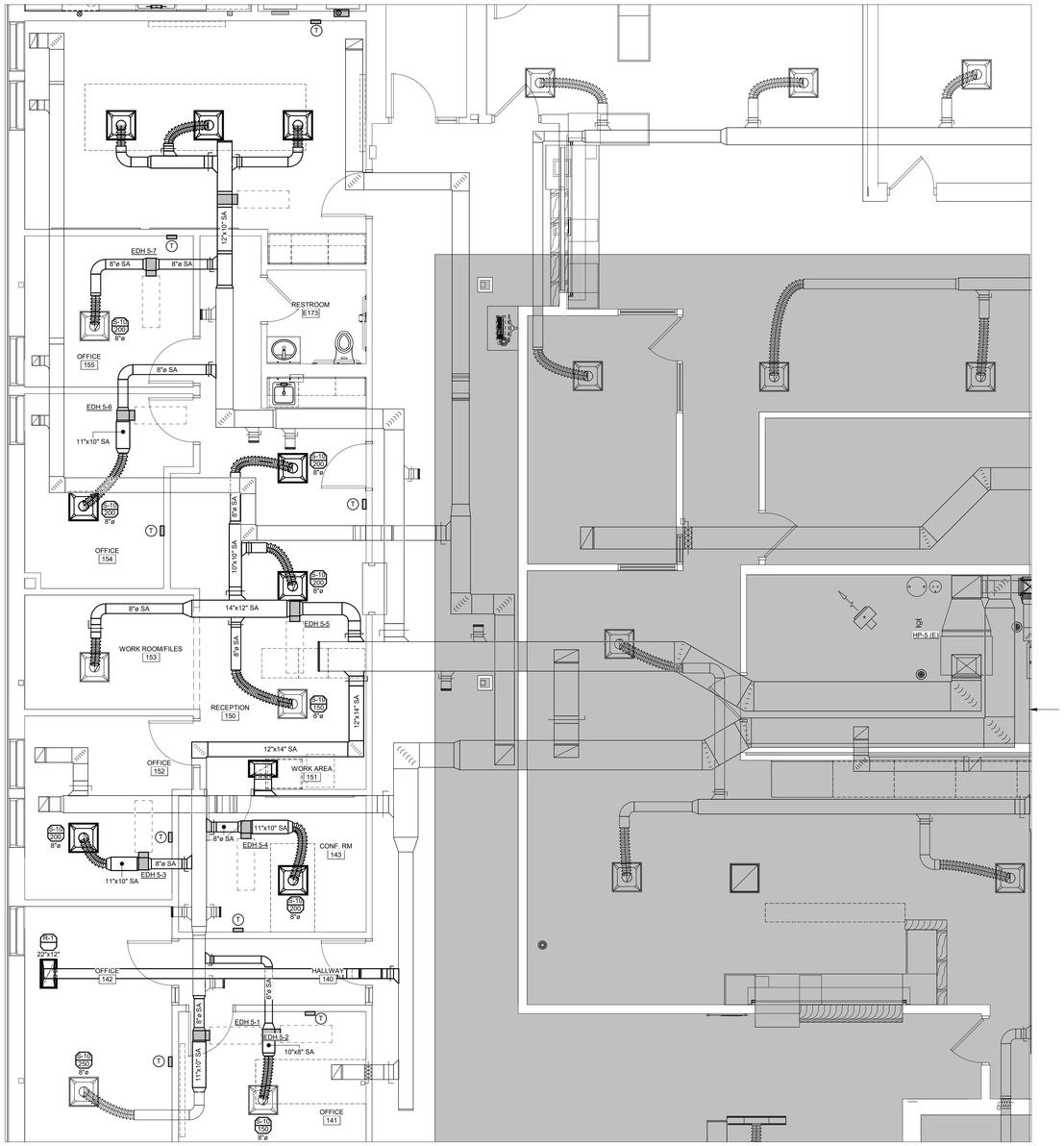
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238000 - ELECTRIC DUCT HEATER SCHEDULE

NOTES:

1. PROVIDE MEANS TO SECURE HEATER INDEPENDENT OF DUCT REINFORCEMENT/SUPPORT

MARK	MANUFACTURER	MODEL	WEIGHT	DUCT SIZE	AIRFLOW	ENTERING AIR TEMP (EAT)	LEAVING AIR TEMP (LAT)	WATTS	ELECTRICAL			NOTES
									VOLT	Ph	Hz	
EDH 5-1	RENEWAIRE	ZON-6-2120	10.00 lb	6"	150 CFM	55 °F	95 °F	2000 W	120 V	1	60 Hz	1
EDH 5-2	RENEWAIRE	ZON-8-3208	15.00 lb	8"	250 CFM	55 °F	95 °F	3000 W	208 V	1	60 Hz	1
EDH 5-3	RENEWAIRE	ZON-8-3208	15.00 lb	8"	200 CFM	55 °F	95 °F	3000 W	208 V	1	60 Hz	1
EDH 5-4	RENEWAIRE	ZON-8-3208	15.00 lb	8"	200 CFM	55 °F	95 °F	3000 W	208 V	1	60 Hz	1
EDH 5-5	RENEWAIRE	ZON-10-6240	20.00 lb	10"	750 CFM	55 °F	95 °F	6000 W	240 V	1	60 Hz	1
EDH 5-6	RENEWAIRE	ZON-8-3208	15.00 lb	8"	200 CFM	55 °F	95 °F	3000 W	208 V	1	60 Hz	1
EDH 5-7	RENEWAIRE	ZON-8-3208	15.00 lb	8"	200 CFM	55 °F	95 °F	3000 W	208 V	1	60 Hz	1
EDH 5-8	RENEWAIRE	ZON-10-6240	20.00 lb	10"	600 CFM	55 °F	95 °F	6000 W	240 V	1	60 Hz	1



1 M402 FIRST FLOOR PLAN - AREA B - HVAC - ALTERNATE BID 3

1/4" = 1'-0"

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

HVAC LEGEND

- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- CONNECT TO EXISTING
- AIR TERMINAL TAG
- AIR TERMINAL MARK
- AIR TERMINAL CFM
- AIR TERMINAL SIZE

M 999 30"X20"

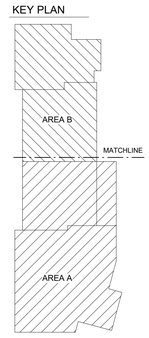
PIPING VALVE & ACCESSORY LEGEND

	BALL VALVE
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI / FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND

- ABOVEGROUND WASTE
- UGW — UNDERGROUND WASTE
- VENT
- RC — RAIN CONDUCTOR
- CW — DOMESTIC COLD WATER
- DOMESTIC COLD WATER
- HW — DOMESTIC HOT WATER
- DOMESTIC HOT WATER
- RHW — RECIRC HOT WATER
- RECIRC HOT WATER
- HWS — HOT WATER HTG SUPPLY
- HWR — HOT WATER HTG RETURN
- HWR — HOT WATER HTG RETURN
- HEAT PUMP SUPPLY
- HPR — HEAT PUMP RETURN
- HPR — HEAT PUMP RETURN
- COND — CONDENSATE DRAIN
- RS — REFRIGERANT LINE SET
- GEOTHERM WS — GEOTHERMAL WELL WATER SUPPLY
- GEOTHERM WR — GEOTHERMAL WELL WATER RETURN
- CONNECT TO EXISTING

KEY PLAN



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

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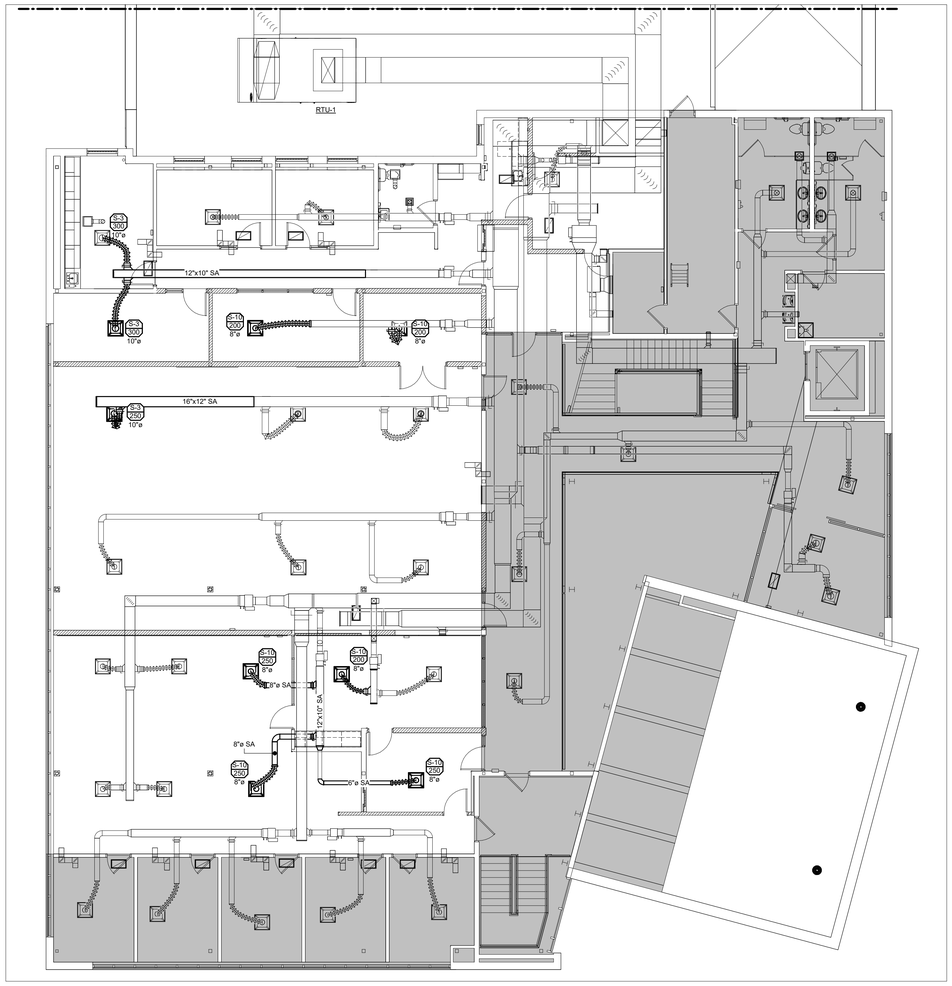
PROJECT
24146

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M402

FIRST FLOOR PLAN HVAC

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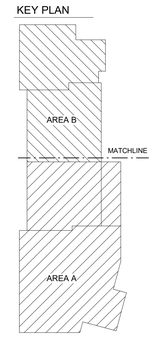
1 M403 SECOND FLOOR PLAN - AREA A - ALTERNATE BID 1

1/8" = 1'-0"

LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

HVAC LEGEND	
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
M 0000 30"x30"	AIR TERMINAL TAG / AIR TERMINAL MARK / AIR TERMINAL CFM / AIR TERMINAL SIZE

KEY PLAN



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

0' 4' 8' 12' 16'

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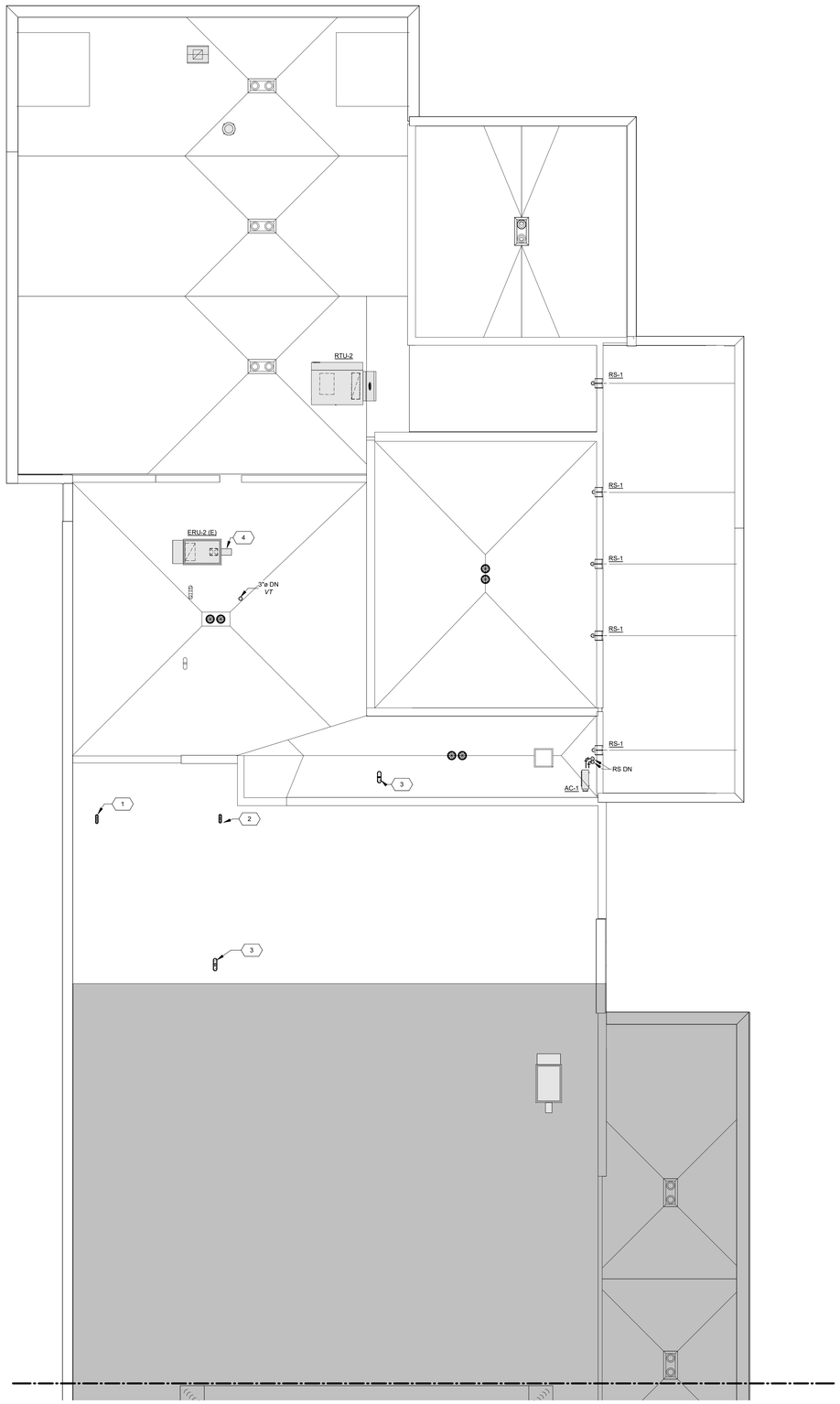
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PROJECT
24146
SHEET
M403
SECOND FLOOR PLAN HVAC

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KEYNOTE LEGEND	
1	4" Ø OVEN EXHAUST VENT
2	4" Ø DRYER VENT BOX EXHAUST VENT
3	4" Ø EXHAUST VENT FROM RESTROOM EXHAUST FAN
4	M.C. SHALL COORDINATE WITH G.C. FOR FINAL ERU LOCATION AND ROOF PENETRATIONS.



1 M404 ROOF PLAN - AREA B - BASE BID
1/8" = 1'-0"

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

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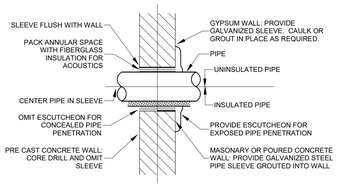
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PROJECT
24146
SHEET
M404
ROOF PLAN

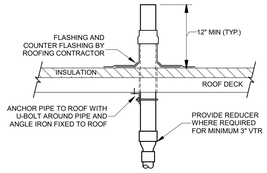
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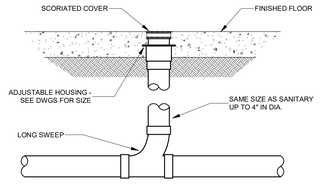
1 M502 NTS

PIPE PENETRATION OF NON-RATED WALL



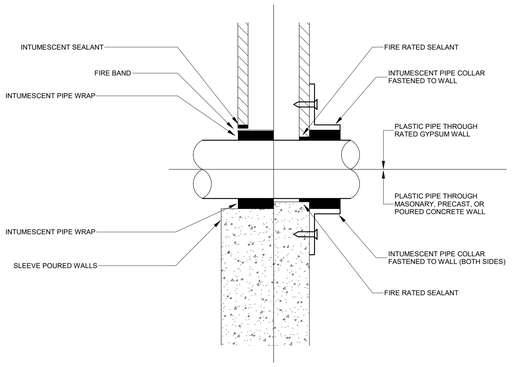
3 M502 NTS

VENT THRU ROOF (VTR)



5 M502 NTS

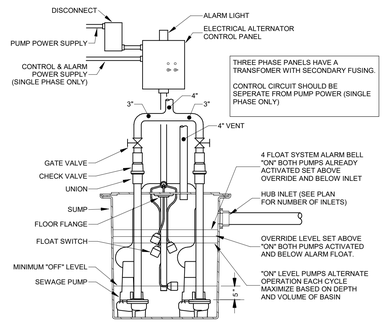
FLOOR CLEANOUT DETAIL



DETAIL NOTES:
1. DETAILS ARE TYPICAL OF BOTH SIDES OF THE RATED WALL.
2. FOR METAL PIPING: PROVIDE SLEEVES AND FIRE RATED SEALANT AS REQUIRED.
3. FOR INSULATED PIPING,P PROVIDE NON-FLAMMABLE INSULATION UNINTERRUPTED THROUGH THE RATED WALL WITH FIRESTOPPING MEANS INSTALLED ON THE OUTSIDE OF THE INSULATION.

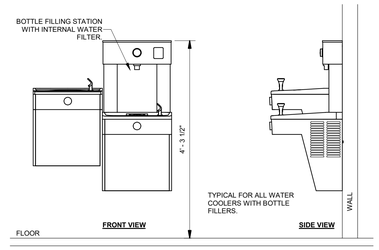
2 M502 NTS

PIPE PENETRATION RATED WALL



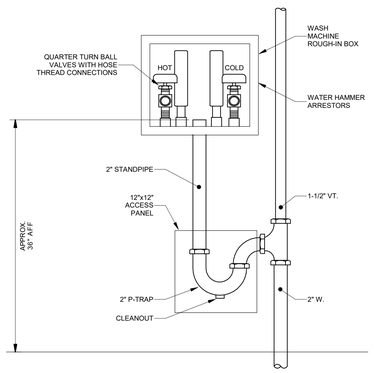
6 M502 NTS

SEWAGE EJECTOR DETAIL



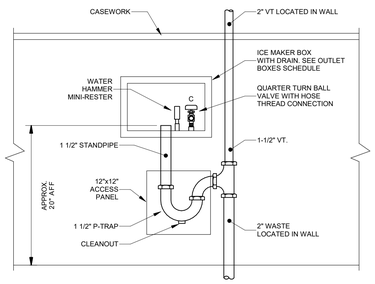
10 M502 NTS

ADA WATER COOLER DETAIL



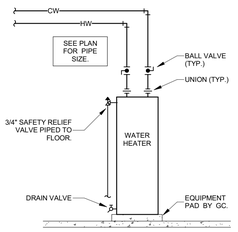
4 M502 NTS

WASH MACHINE CONNECTION DETAIL



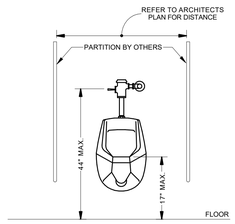
15 M502 NTS

WATER OUTLET BOX - ICE MAKER



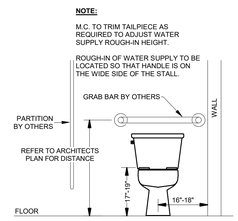
7 M502 NTS

WATER HEATER PIPING DETAIL



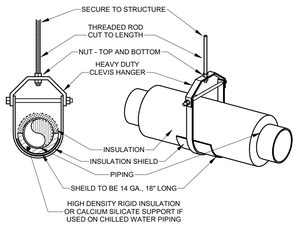
9 M502 NTS

ADA URINAL DETAIL



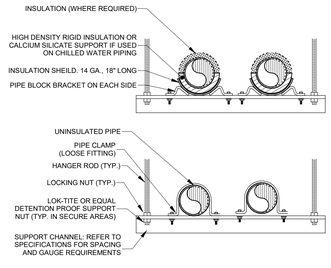
11 M502 NTS

ADA WATER CLOSET DETAIL



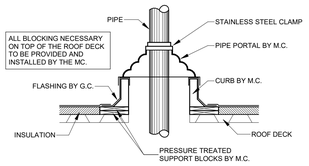
12 M502 NTS

PIPE HANGER DETAIL



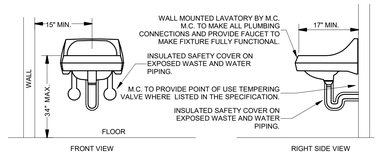
13 M502 NTS

PIPE TRAPEZE HANGER DETAIL



14 M502 NTS

PIPE PORTAL DETAIL



8 M502 NTS

ADA LAVATORY DETAIL

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CALEB A BULOW
PE-7110
DATE 10/21/25
NORTH DAKOTA

REVISION SCHEDULE

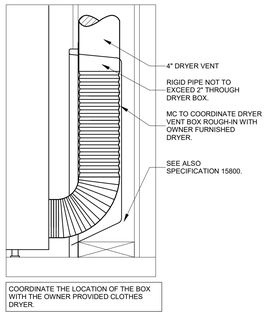
NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT 24146
SHEET **M502**
DETAILS

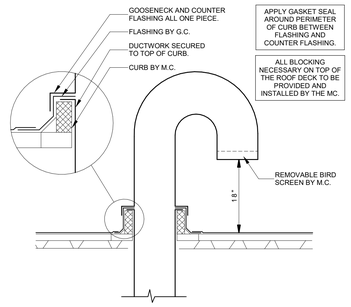
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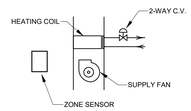
1 M503 NTS

DRYER VENT BOX DETAIL



3 M503 NTS

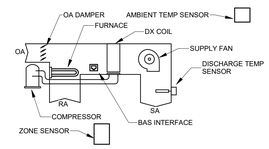
GOOSENECK DETAIL



POINTS LIST	
POINT NAME	POINT TYPE
SUPPLY FAN	BINARY OUT
2-WAY C.V.	BINARY OUT
ZONE SENSOR	ANALOG IN

11 M503 NTS

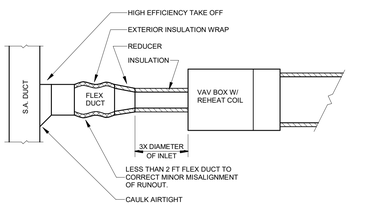
CABINET UNIT HEATER SCHEMATIC



POINTS LIST	
POINT NAME	POINT TYPE
BAS INTERFACE	DDC
ZONE SENSOR	ANALOG IN
HEATING	BINARY OUT
DISCHARGE TEMP SENSOR	ANALOG IN
COOLING	BINARY OUT
AMBIENT TEMP SENSOR	ANALOG IN
ALARMS	BINARY IN

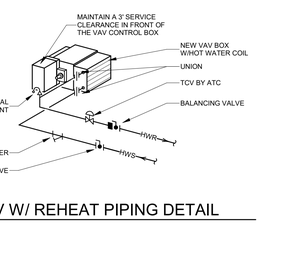
13 M503 NTS

RTU SCHEMATIC



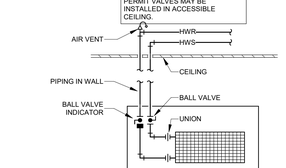
2 M503 NTS

DUCT BARRIER - FIRE DAMPER DETAIL



6 M503 NTS

TRANSFER DUCT DETAIL



POINTS LIST	
POINT NAME	POINT TYPE
SUPPLY FAN	BINARY OUT
REVERSING VALVE	BINARY OUT
H.W. 2-WAY C.V.	BINARY OUT
DISCHARGE TEMP SENSOR	ANALOG IN
ZONE SENSOR	ANALOG IN
AMBIENT TEMP SENSOR	ANALOG IN
CONDENSATE OVERFLOW	BINARY IN
COMPRESSOR	BINARY OUT

12 M503 NTS

HEAT PUMP SCHEMATIC

POINTS LIST	
POINT NAME	POINT TYPE
SUPPLY DAMPER	ANALOG OUT
2-WAY C.V.	ANALOG OUT
AIR FLOW SENSOR	ANALOG IN
SUPPLY TEMP	ANALOG IN
ZONE SENSOR	ANALOG IN

14 M503 NTS

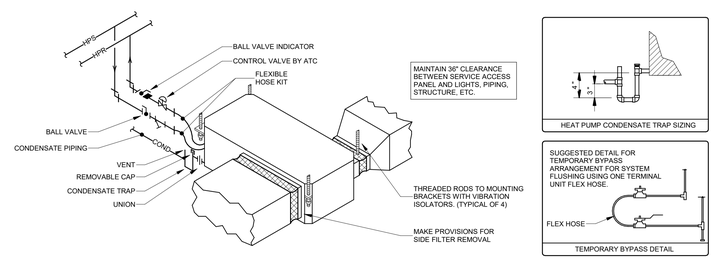
VAV WITH REHEAT SCHEMATIC

4 M503 NTS

DUCT/ROOF PENETRATION DETAIL

7 M503 NTS

ROOFTOP UNIT DETAIL



10 M503 NTS

HORIZONTAL HEAT PUMP DETAIL

5 M503 NTS

VAV BOX DUCT DETAIL

8 M503 NTS

VAV W/ REHEAT PIPING DETAIL

9 M503 NTS

CABINET UNIT HEATER PIPING DETAIL

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221200 - OUTLET BOXES

SCHEDULE NOTES:

1. WHERE BOXES ARE INSTALLED IN FIRE RATED WALLS, PROVIDE FIRE RATED BOX.
2. MOUNTING HEIGHT SHALL BE COORDINATED PRIOR TO INSTALLATION.

TAG	QTY	FIXTURE			NOTES
		TYPE	MANUFACTURER	MODEL	
BX-1	1	CLOTHES WASHER BOX	GUY GRAY	T150	1, 2
BX-2	2	ICE MAKER OUTLET BOX	GUY GRAY	88531	1, 2

233700 - AIR TERMINAL SCHEDULE

SCHEDULE NOTES:

1. M.C. TO PROVIDE SHEET METAL TRASITION FROM DUCT TO GRILLE AS REQUIRED.
2. PLAQUE TYPE DIFFUSER
3. CONE TYPE DIFFUSER
4. LONG BLADE
5. SHORT BLADE
6. PROVIDE DAMPER
7. FILTER GRILLE, FOR 2 INCH FILTERS
8. ROUND DIFFUSER
9. PAINT BLACK INSIDE DUCT SURFACE ABOVE REGISTER
10. RECTANGUALR/SQUARE DIFFUSER/GRILLE
11. HEAVY DUTY
12. 45 DEGREE BLADES ANGLED UP
13. EGG CRATE GRILLE
14. 24"X24" FACE
15. SINGLE DEFLECTION
16. DOUBLE DEFLECTION
17. CEILING RADIATION FIRE DAMPER, 1.5 HR RATED
18. LINEAR SLOT DIFFUSER, 3 SLOT, 48" LONG
19. LINEAR SLOT DIFFUSER, 3 SLOT, 72" LONG
20. SUPPLY SDA PLENUM WITH LINEAR SLOT DIFFUSER
    *CONTRACTOR TO VERIFY CEILING TYPES PRIOR TO ORDERING

TAG	QTY	MANUFACTURER	MODEL	FUNCTION	DIMENSIONS		FINISH	FRAME	MOUNT	NOTES
					SIZE	NECK DIAMETER				
E-5	7	PRICE INDUSTRIES	80	Exhaust Air	12"x12"		WHITE	TYPE TB	SURFACE	1, 13
R-1	9	PRICE INDUSTRIES	80	Return Air	22"x12"		WHITE	TYPE F	SURFACE	1,13
S14	3	PRICE INDUSTRIES	SCD	Supply Air	6"ø	0' - 6"	WHITE	TYPE F	SURFACE	1, 6, 10
S-1	8	PRICE INDUSTRIES	SPD	Supply Air	6"ø	0' - 6"	WHITE	TYPE 31	SURFACE	1, 6, 10
S-10	15	PRICE INDUSTRIES	SPD	Supply Air	8"ø	0' - 8"	WHITE	TYPE 31	SURFACE	1, 6, 10
S-12	20	PRICE INDUSTRIES	SDS	Supply Air	8"ø	0' - 8"	WHITE	TYPE 14	LAY-IN-TILE	1, 6, 10, 19, 20
S-13	2	PRICE INDUSTRIES	SDS	Supply Air	8"ø	0' - 8"	WHITE	TYPE 14	LAY-IN-TILE	1, 6, 10, 18, 20

223000 - ELECTRIC WATER HEATER SCHEDULE

SCHEDULE NOTES:

1. MOUNT ON 4" CONCRETE HOUSEKEEPING PAD
2. SET TEMPERATURE TO 120 DEGREES
3. WIRE FOR SIMULTANEOUS HEATING ELEMENT OPERATION
4. WIRE FOR SEPARATE HEATING ELEMENT OPERATION

MARK	MANUFACTURER	MODEL	HEATING ELEMENT KW	TANK VOLUME	ELECTRICAL			NOTES
					VOLTS	Ph	Hz	
WH-1	Rheem	EGSP6	2 kW	6 gal	120 V	1	60 Hz	1,2,4

233400 - FAN SCHEDULE

SCHEDULE NOTES:

1. PROVIDE ROOF CURB
2. PROVIDE MOUNTING HARDWARE, ISOLATION DEVICES, FRAME WORK FOR SUSPENDED INSTALLATION
3. PROVIDE WALL CAP
4. PROVIDE FACTORY DISCONNECT
5. PROVIDE ECM TYPE MOTOR

MARK	MANUFACTURER	MODEL	FAN TYPE	SYSTEM	AIRFLOW	ESP	RPM	SONES	SPEED CONTROL	MOTOR	VOLT	Ph	Hz	notes
EF-5	GREENHECK	SP-B150	CEILING	EXHAUST FAN	70 CFM	0.38 in-wg	669	3.5	SS	129 W	120 V	1	60 Hz	2, 4, 5

223000 - SUMP PUMP SCHEDULE

SCHEDULE NOTES:

1. SEE DETAIL FOR ACCESSORIES
2. AUTOMATIC PUMP CONTROL WITH HIGH WATER ALARM AND CONTACT FOR BAS ALARM
3. PROVIDE PUMPS WITH 15' CORDS

MARK	MANUFACTURER	MODEL	TYPE	FLOW	PRESSURE	MOTOR INFORMATION				NOTES
						HP	V	Ph	Hz	
SP-1	ZOELLER	M292	SP	46 GPM	22.54 ftH2O	0.5 hp	115 V	1	60 Hz	1

221300 - WASTE FIXTURE SCHEDULE

SCHEDULE NOTES:

1.
2.

TAG	QTY	TYPE	MFR	MODEL	DESCRIPTION
FD-1	6	FLOOR DRAIN	WATTS	FD-102-A5	Finished Area Floor Drain with Round Strainer

224000 - PLUMBING FIXTURE SCHEDULE1

SCHEDULE NOTES:

1. SCHEDULE IS ABBREVIATED. SEE PLUMBING SPECIFICATIONS SECTION 224000 FOR FULL SPECIFICATIONS.
2. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS
3. SEAL JOINTS BETWEEN FIXTURES AND FLOORS/WALLS WITH MILDEW RESISTANT SEALANT. MATCH COLOR TO FIXTURE

TAG	QTY	FIXTURE			ADA	FAUCET/VALVE			DESCRIPTION
		TYPE	MFR	MODEL		MFR	MODEL	OPTION	
EWC-1	2	WATER COOLER	ELKAY	LZSTL8WSMP	Yes	INTEGRAL	INTEGRAL	INTEGRAL	SURFACE WALL MOUNT, SS BASIN, INTEGRAL DRAIN GRIDS, SINGLE LEVEL WHEELCHAIR ACCESSIBLE, FRONT PUSH-BARS, BOTTLE FILLING STATION, 120V, PROVIDE CORD AND PLUG FOR POWER CONNECTION.
LAV-1	6	LAVATORY	ZURN	Z5120	Yes	ZURN	ZG6915-XL	HANDS FREE	19" VITREOUS CHINA, SELF-RIMMING, COUNTERTOP LAVATORY, 0.5 GPM
LAV-2	2	LAVATORY	ZURN	Z5350	Yes	ZURN	ZG6915-XL	HANDS FREE	19" X 17" VITREOUS CHINA, SELF-RIMMING, WALL HUNG LAVATORY, 0.5 GPM
S-1	1	SINK - GENERAL PURPOSE	ELKAY	LR3319	Yes	ZURN	Z7870C-XL	SINGLE HANDLE	CLASSIC STAINLESS STEEL 33" X 19-1/2" X 7-5/8" EQUAL DOUBLE BOWL DROP-IN SINK, WITHOUT SPRAY, 2.2 GPM
S-2	1	SINK - GENERAL PURPOSE	ZURN	LRADQ131655	Yes	ZURN	Z7870C-XL	SINGLE HANDLE	SINGLE BOAL DROP-IN ADA SINK WITH QUICK CLIP, STAINLESS STEEL, WITHOUT SPRAY, SINGLE HANDLE FAUCET 2.2 GPM
UR-1	1	URINAL	ZURN	Z5755-U	No	ZURN	Z6003AV	SINGLE HANDLE	VITREOUS CHINA, 0.125 GPF TO 1.0 GPF, WALL HUNG, INTEGRAL TRAP, WASH DOWN URINAL, FLUSHVALVE
WC-1	5	WATER CLOSET - ADA	ZURN	Z5551-K	Yes	INTEGRAL	INTEGRAL	INTEGRAL	VITREOUS CHINA, 1.6 GPF LOW CONSUMPTION, HIGH PERFORMANCE, ADA, ELONGATED, SIPHON JET
WC-2	1	WATER CLOSET	ZURN	Z5535-K	No	INTEGRAL	INTEGRAL	INTEGRAL	VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF, STD HEIGHT, ELONGATED, TOILET

221400 - STORM DRAINAGE SPECIALTIES

SCHEDULE NOTES:

1. PROVIDE DOWNSPOUT ADAPTER WITH SCUPPER

TAG	QTY	TYPE	MANUFACTURER	MODEL	DESCRIPTION	NOTES
RS-1	5	ROOF SCUPPER	Zurn Water, LLC	Z187	OBLIQUE SCUPPER DRAIN	1

233000 - HW REHEAT VAV SCHEDULE

SCHEDULE NOTES:

1. HEATING CAPACITIES BASED ON 30% PROPYLENE GLYCOL

MARK	MANUFACTURER	MODEL	SIZE	AIRFLOW				HOT WATER COIL						NOTES
				CLG. MAX	CLG. MIN	HEATING	APD	ROWS	CAP.	GPM	EWT	EAT	LAT	FPD	
VAV-2-5	Titus HVAC	DESV	SIZE 24 X 16	3000 CFM	1000 CFM	2400 CFM	0.2 in-wg	1	69,600 Btu/h	3 GPM	130 °F	55 °F	95 °F	0.11 ftH2O	1
VAV-2-6	Titus HVAC	DESV	Size 06	150 CFM	45 CFM	120 CFM	0.02 in-wg	1	6,800 Btu/h	1 GPM	130 °F	55 °F	90 °F	0.48 ftH2O	1
VAV-2-7	Titus HVAC	DESV	Size 06	250 CFM	83 CFM	200 CFM	0.05 in-wg	1	8,600 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.48 ftH2O	1
VAV-5-1	Titus HVAC	DESV	Size 06	150 CFM	45 CFM	120 CFM	0.02 in-wg	1	6,800 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.48 ftH2O	1
VAV-5-2	Titus HVAC	DESV	Size 08	250 CFM	75 CFM	200 CFM	0.05 in-wg	1	10,700 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1
VAV-5-3	Titus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.02 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1
VAV-5-4	Titus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.02 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1
VAV-5-5	Titus HVAC	DESV	Size 10	750 CFM	225 CFM	600 CFM	0.13 in-wg	1	19,500 Btu/h	2 GPM	130 °F	55 °F	95 °F	0.41 ftH2O	1
VAV-5-6	Titus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.02 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1
VAV-5-7	Titus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.2 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1
VAV-5-8	Titus HVAC	DESV	Size 10	600 CFM	180 CFM	480 CFM	0.08 in-wg	1	18,300 Btu/h	2 GPM	130 °F	55 °F	95 °F	0.41 ftH2O	1

HEAT PUMP ROOFTOP UNIT SCHEDULE

SCHEDULE NOTES:

1. PROVIDE HOSE KIT WITH Y-TYPE STRAINER, AUTO-BALANCE VALVE, AND ISOLATION VALVES. SEE SPECIFICATION.
2. NO EQUAL SHALL BE CONSIDERED IF ANY OF THE SCHEDULED VALUES ARE +/- 5% FROM VALUE SCHEDULED. ALL ELECTRICAL CHANGES CAUSED BY DIFFERING MFR WILL BE PAID FOR BY...

MARK	MANUFACTURER	MODEL	AIR SIDE		WATER SIDE			COOLING				HEATING			ELECTRICAL					NOTES
			FLOW	ESP	FLUID	FLOW	PD	CAPACITY	EER	EWT	LWT	CAPACITY	COP	EWT	MCA	MOP	VOLT	Ph	Hz	
RTU-2	Aaon, Inc.	RNA-015	5,500 CFM	2 in-wg	30% PG	45 GPM	24 ftH2O	186,800 Btu/h	8.6	90 °F	101 °F	184,600 Btu/h	3.66	40 °F	95 A	110 A	208 V	3	60 Hz	1, 2

238000 - CABINET UNIT HEATER - HYDRONIC

SCHEDULE NOTES:

1. PROVIDE INTEGRAL 3-SPEED SELECTOR FOR FAN
2. PROVIDE COLOR SAMPLE SHEET FOR COLOR SELECTION BY ARCHITECT
3. INSTALL UNIT WITH REMOTE, FIELD MOUNTED T-STAT BY ATC.
4. CAPACITY BASED ON 30% PROPYLENE GLYCOL

MARK	MANUFACTURER	MODEL	HEAT OUTPUT	AIR SIDE			WATER SIDE			ELECTRICAL				NOTES
				FLOW	EAT	LAT	FLOW	EWT	LWT	MOTOR HP	VOLT	Ph	Hz	
CUH-5	DAIKIN	FHVC104	18.1 Btu/h	365 CFM	60 °F	105 °F	3 GPM	130 °F	110 °F	30 W	120 V	1	60 Hz	1,2,3,4

238000 - SPLIT SYSTEM AC

SCHEDULE NOTES:

1. PROVIDE WALL HUNG REMOTE WITH TEMPERATURE SENSOR.
2. M.C. SHALL PROVIDE METAL STAND FOR OUTDOOR UNIT
3. CEILING MOUNT, M.C. SHALL PROVIDE CONDENSATE PUMP
4. PROVIDE WALL HUNG REMOTE WITH TEMPERATURE SENSOR

MARK	MANUFACTURER	DESCRIPTION	MODEL	COOLING CAPACTIY	SEER	ELECTRIC				NOTES
						MCA	VOLT	Phase	Frequency	
AC-1	Daikin	Split AC - Outdoor Unit	2MXS18GVJU	18,000 Btu/h	18.9	0.36 A	208 V	1	60 Hz	1
AC-1a	Daikin	Split AC - Indoor Ceiling Unit	FFQ09W2VJU9	9,000 Btu/h		0.23 A	208 V	1	60 Hz	2,3,4
AC-1b	Daikin	Split AC - Indoor Ceiling Unit	FFQ09W2VJU9	9,000 Btu/h		0.23 A	208 V	1	60 Hz	2,3,4

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Keynote List

E1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
E2	REMOVE EXISTING EXTERIOR LIGHT FIXTURES AND RETAIN FOR REUSE.
E3	COORDINATE RELOCATION OF EXISTING TRANSFORMER WITH SERVING UTILITY COMPANY.
E4	REMOVE EXISTING FIRE ALARM DEVICE AND RETAIN FOR REINSTALL AS APPLICABLE.
E5	COORDINATE REMOVAL OF EXISTING SURVEILLANCE EQUIPMENT WITH OWNER. TURN OVER EQUIPMENT TO OWNER FOR REUSE.
E6	COORDINATE REMOVAL WIRELESS ACCESS POINT WITH OWNER. TURN OVER EQUIPMENT TO OWNER FOR REUSE.
E7	EXISTING CABLE TRAY TO REMAIN.
E8	REMOVE EXISTING FACE PLATE AND RECEPTACLE. PROVIDE NEW FACEPLATE, RECEPTACLE AND RE-TERMINATE.
E9	REMOVE EXISTING FACE PLATE. PROVIDE NEW FACEPLATE AND REINSTALL DATA JACKS.
E10	COORDINATE REMOVAL OF ND COURTS EQUIPMENT WITH VENDOR (FORTE/AVI) PRIOR TO DEMOLITION. ALL EQUIPMENT MUST BE TURN OVER FOR REUSE BY THE VENDOR.
E11	DISCONNECT EXISTING HEAT PUMP FOR REMOVAL BY OTHERS. RETAIN ELECTRICAL DISCONNECT FOR REUSE AT THE NEW LOCATION FOR THIS HEAT PUMP. SPLICE AND EXTEND WIRING TO NEW LOCATION AS REQUIRED.
L1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
L2	REINSTALL EXISTING EXTERIOR LIGHT (X1) AT THIS LOCATION. MOUNT AT THE SAME HEIGHT AS THE ADJACENT EXTERIOR LIGHTING.
L3	CIRCUIT TO EXISTING EXTERIOR LIGHTING CIRCUITRY.
L4	CIRCUIT TO EXISTING UNSWITCHED 120V LIGHTING CIRCUIT IN THIS AREA.
L5	CIRCUIT TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA.
L6	UNSWITCHED.
L7	CIRCUIT TO EXISTING RESTROOM LIGHTS.
P1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
P3	DEDUCT UNDER ALTERNATE 3.
P4	CIRCUIT TO UNSWITCHED 120V GENERAL POWER CIRCUIT IN AREA.
P5	PROVIDE WIREMOLD #EFS82, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE S8.
P6	PROVIDE AND INSTALL NEMA 14-50R RECEPTACLE FOR RANGE. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P7	CONNECT TO RANGE HOOD AND HOOD LIGHTS.
P8	PROVIDE AND INSTALL BLANK FACE GFCI ABOVE COUNTER FOR THE DOWNSTREAM DEVICE.
P9	POWER FOR CONTROLLED ACCESS PANEL
P10	LOAD SIDE GFCI
P11	PROVIDE NEMA 5-20R RECEPTACLE FOR PROJECTOR POWER. PROVIDE CHIEF #CMS445 PROJECTOR MOUNTING PLATE AND PROPERLY SUPPORT FROM STRUCTURAL MEMBERS ABOVE PER MANUFACTURER INSTRUCTIONS. RECEPTACLE SHALL MOUNT TO THE FACE OF PLATE ALONG WITH THE "XO" AV DEVICE. COORDINATE EXACT LOCATION AND HEIGHT WITH PROJECTOR SYSTEMS KEYNOTE.
P12	PROVIDE AND INSTALL NEMA 14-30R RECEPTACLE FOR DRYER. PROVIDE MATCHING CORD AND PLUG.
P13	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P14	SEE DETAIL 1/E404 OR 2/E404 FOR MTR FLOOR BOX.
P15	RELOCATE EXISTING PANEL FROM OLD ADJACENT WALL. SPLICE AND EXTEND CIRCUITRY AS REQUIRED.
P16	GC TO CUT/PATCH EXISTING CONCRETE FLOOR AS REQUIRED FOR FLOORBOX INSTALLATION. VERIFY EXACT LOCATION OF FLOORBOX WITH ARCHITECT/ENGINEER.
P17	PROVIDE NEW RECEPTACLE AT EXISTING RECEPTACLE LOCATION.
P18	PROVIDE EXTENSION ON EXISTING TRANSFORMER PAD AND PULL BACK EXISTING FEEDERS FOR REUSE BETWEEN THE NEW TRANSFORMER LOCATION AND THE EXISTING CT CABINET. PROVIDE EIGHT (8) 4" CONDUITS BETWEEN THE CT AND THE TRANSFORMER FOR THE FEEDERS.
P19	PROVIDE 4-WIRE CONTROL CONNECTION TO PROJECTOR SCREEN. COORDINATE EXACT LOCATION WITH GC AND AV CONTRACTOR.
P20	SEE DETAIL 4/E304 FOR POKE THROUGH FLOOR BOX GENERAL NOTES. REFER TO SPECIFICATION SECTION 260540. TYPICAL FOR ALL FLOOR BOXES.
P21	PROVIDE TWO (2) 50A 2-POLE GFCI BREAKERS IN AVAILABLE SPACE IN PANEL LC1. SQUARE-D #QO/QOB-6FI. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
P22	PROVIDE TWO (2) 40A 2-POLE, FIVE (5) 20A 2-POLE, AND BREAKERS IN AVAILABLE SPACE IN PANEL HC1. SQUARE-D #QO/QOB STYLE. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
P23	PULL BACK EXISTING FIRE PUMP FEEDER AND REROUTE TO NEW TRANSFORMER LOCATION. INTEREPT THE 2" CONDUIT IN THIS APPROXIMATE LOCATION AND EXTEND TO THE TRANSFORMER FOR THE FEEDERS.
P24	PROVIDE AND INSTALL A 125/3 CIRCUIT BREAKER FOR RTU-2. REMOVE EXISTING 100/3 SPARE AND TURN OVER TO OWNER. SQUARE-D #QGA32125. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
P25	NEW LOCATION FOR EXISTING HEAT PUMP. EXTEND WIRING FROM OLD LOCATION AND CONNECT TO HEAT PUMP.
P26	PROVIDE ONE (1) 30A 2-POLE BREAKER IN AVAILABLE SPACE IN PANEL HA1. SQUARE-D #EGB24030. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
S1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
S2	PROVIDE 1-1/2" CONDUIT WITH PULL STRING BACK TO ACCESSIBLE CEILING SPACE FOR USE BY OTHERS.
S3	PROVIDE TWO GANG BOX ON WALL AT 72" ABOVE FINISHED FLOOR WITH 2" CONDUIT WITH PULL STRING BACK TO RM #162B FOR USE BY OTHERS.
S4	PROVIDE WIREMOLD #EFS82, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE P5.
S5	PROVIDE ONE CAT6A NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE FIFTEEN (15) FOOT OF EXCESS SERVICE LOOP FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT SUPPLIED BY OTHERS AND INSTALLED BY DIV. 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S6	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY EC. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S7	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE ONE (1) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY EC. PROVIDE 3/4" CONDUIT BACK TO ACCESSIBLE CEILING SPACE AND THEN PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S8	PROVIDE AND INSTALL RELAYS AS REQUIRED TO INTERFACE ACCESS CONTROL SYSTEM WITH EXTERIOR DOOR HANDICAP OPERATOR. EXIT DOOR PUSHBUTTON RELAY SHALL AUTOMATICALLY TRIGGER ELECTRIFIED STRIKE. ENTRANCE DOOR BUTTON RELAY SHALL DISABLE OPERATOR UNLESS VALID CREDENTIALS ARE PRESENTED AFTER HOURS. DURING NORMAL BUSINESS HOURS ENTRANCE PUSHBUTTON WILL BE ALLOWED TO OPEN DOOR. VERIFY HOURS OF OPERATION WITH OWNER.
S9	NETWORK DROPS FOR CACP.
S10	EC TO PROVIDE 2'X2' SUSPENDED CEILING PROJECTOR PLATE. CHIEF #CMS445, UTILIZE INCLUDED CABLE HANGERS TO SUPPORT PLATE FROM STRUCTURE AS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SINGLE-GANG PANDUIT NETWORK FACEPLATE WITH 'XO' DEVICE AND DUPLEX RECEPTACLE WITH 6' FLEX WHIP TO STRUCTURALLY MOUNTED J-BOX.
S11	SEE DETAIL 1/E403
S12	SEE DETAIL 2/E403
S13	SEE DETAIL 5/E403 FOR CONTROLLED ACCESS ROUGH-IN INSTALLATION. CABLE PROVIDED BY OWNER VENDOR AND INSTALLED BY EC. ROUTE BACK TO CACP LOCATIONS SHOWN FOR FINAL CONNECTIONS BY OWNER VENDOR.
S14	DATA JACK(S) TO BE HARDWIRED INTO THE COURT SYSTEM NETWORK. COORDINATE WITH ND COURTS IT DEPARTMENT OF EXACT NETWORK SWITCH/PORT LOCATION IN EXISTING DTR1.
S15	PROVIDE TWO GANG BOX ON BACKSIDE OF CASEWORK AT 18" ABOVE FINISHED FLOOR WITH 2" CONDUIT WITH PULL STRING BACK TO RM #162B FOR USE BY OTHERS.
S16	COURT SYSTEM CONTROL PANEL AND AUDIO RACK. RACK PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATIONS OF ROUGH-INS WITH ND COURTS VENDOR (FORTE/AVI).
S17	PROVIDE 1" CONDUIT WITH PULL STRING BACK TO RM #162B FOR SPEAKERS. PROVIDE 1" CONDUIT WITH PULL STRING BETWEEN SPEAKERS AS SHOWN. VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS WITH ND COURTS VENDOR (FORTE/AVI).
S18	PROVIDE DOOR BELL AND PUSH BUTTON. ENGRAVE BUTTON 'RING BELL FOR SERVICE'
S19	INSTALL A CABLES 2 GO (C2G) #39710 PASS THROUGH HDMI WALL PLATE AT THIS LOCATION COMPARTMENT AND A LEGRAND #WP1014WHV1 CABLE ACCESS WALL PLATE AT THE TV LOCATION. PROVIDE A C2G SELECT SERIES HDMI CABLE #506XX OF APPROPRIATE LENGTH BETWEEN THE TWO PLATES WITH AN ADDITIONAL 5 FEET EXCESS. COIL EXCESS CABLE IN THE ACCESSIBLE CEILING SPACE BETWEEN TV AND WALL BOX.
S20	PROVIDE ROUGH-IN FOR PANIC BUTTONS ON THE UNDERSIDE OF DESK/CABINETRY TO INTERCONNECT TO THE CONTROLLED ACCESS SYSTEM. COORDINATE LOCATION WITH CABINET INSTALLER OR FURNITURE PROVIDER. VERIFY LOCATION(S) WITH OWNER.

Sheet List

Sheet Number	Sheet Name
E000	LEGENDS AND DETAILS
E101	EXISTING LEVEL 1
E102	EXISTING LEVEL 2
E201	LEVEL 1 LIGHTING PLAN
E202	LEVEL 2 LIGHTING PLAN
E301	LEVEL 1 POWER PLAN
E302	LEVEL 2 POWER PLAN
E401	LEVEL 1 SYSTEMS PLAN
E402	LEVEL 2 SYSTEMS PLAN
E403	SYSTEMS DETAILS

STANDARD ELECTRICAL SYMBOLS

BASED ON ANSI Y32.9-1972, ANSI A117.1-1986, AND FEDERAL REGISTER 56-144(ADA)
MOUNTING HEIGHT MEASUREMENTS SHALL BE MADE FROM FINISH FLOOR TO CENTER LINE OF OUTLET

SYMBOL	DESCRIPTION	MTG. HT.
	LIGHTING OUTLETS	
A, 1 b	CEILING LUMINAIRE. TYPE A, CKT 1, SW b.	
	WALL MOUNTED LUMINAIRE.	SCHEDULED
	TROFFER LUMINAIRE, SLASH INDICATES UNSWITCHED.	
	STRIP LUMINAIRE WITH WIRE GUARD.	
	CEILING MOUNTED EXIT SIGN, SHADING INDICATES LIGHTED FACE.	
	WALL MOUNTED EXIT SIGN.	
	EMERGENCY BATTERY UNIT	
	REMOTE SEALED BEAM	SCHEDULED
PLH	PORCELAIN LAMPHOLDER. 100A LAMP LED LAMP EQUIVALENT	SCHEDULED
J	JUNCTION BOX	
	RECEPTACLE OUTLETS	
1	SINGLE. CKT 1	18"
	DUPLEX	18"
	DUPLEX - SPLIT WIRED	18"
GFI	DUPLEX - GROUND FAULT CIRCUIT INTERRUPTER	18"
	DUPLEX - EMERGENCY	18"
	DOUBLE DUPLEX	
A	SPECIAL CONFIGURATION. DESIGNATION REFERS TO SCHEDULE	SCHEDULED
18	MULTI-OUTLET ASSEMBLY. ARROWS EXTEND TO LIMIT OF INSTALLATION. SUBSCRIPT INDICATES SPACING OF OUTLETS	
C	CLOCK RECEPTACLE	82"
F	DUPLEX RECEPTACLE - FLOOR BOX	
	SWITCH OUTLETS	
S	SINGLE POLE	46"
S_2	DOUBLE POLE	46"
S_3	THREE-WAY	46"
S_4	FOUR-WAY	46"
S_K	KEY OPERATED	
S_M	MOTOR - PROVIDE OVERLOAD UNIT AS REQ'D. TOGGLE ACCEPTABLE IF INTERNAL THERMAL PROTECTION INCLUDED. SWITCH NOT REQ'D IF MOTOR ASSEMBLY HAS INTEGRAL DISCONNECTING MEANS.	
S_P	PILOT HANDLE	46"
S_T	TIME DELAY	46"
D	DIMMER - 1000W UNLESS OTHERWISE INDICATED	46"
SS	GANGED SWITCHES - ARROW INDICATES MULTI-LEVEL SWITCHING	46"
	WALL MOUNTED OCCUPANCY SENSOR	
	CEILING MOUNTED OCCUPANCY SENSOR. TYPE a, SW b. REFER TO SCHEDULE FOR TYPE	
	COMMUNICATION/DATA SYSTEM OUTLETS	
	VOICE OUTLET - ONE JACK PER TRIANGLE	18"
	VOICE OUTLET OR DATA OUTLET - FLOOR BOX	
	DATA OUTLET - ONE JACK PER TRIANGLE	18"
B	BELL	
BZ	BUZZER	
I	INTERCOM STATION	46"
M	MICROPHONE OUTLET	18"
T	TELEVISION OUTLET	18"
V	VOLUME CONTROL	46"
	PUSH BUTTON	
S	SPEAKER/BAFFLE/BACKBOX COMBINATION	CEILING
	CLOCK	84"
AV	AUDIO/VIDEO CONNECTION BOX - HDMI TYPICAL	18"
	MISCELLANEOUS	
	PLAN OR DETAIL NOTE	
	SPECIAL PURPOSE CONNECTION - AS REQUIRED BY EQUIPMENT MANUFACTURER. CO-ORDINATE ROUGH-IN WITH SHOP DWG.	
	BRANCH CIRCUIT PANELBOARD, SHADING INDICATES NEW PANEL	TOP 75"
	CONTROL PANEL	
	EXTERNALLY OPERATED DISCONNECT SWITCH	
	CONTROLLER OR RELAY	
	COMBINATION CONTROLLER AND DISCONNECTION MEANS	
	MOTOR. DESIGNATION REFERS TO SCHEDULE.	
2	EQUIPMENT DESIGNATION. SEE SCHEDULE.	
HR-1	ELECTRIC HEAT TO SCALE. DESIGNATION REFERS TO SCHEDULE. "T" INDICATES INTEGRAL THERMOSTAT.	
TE	THERMOSTAT-PROVIDED BY DIV. 26	46"
T	THERMOSTAT-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
H	HUMIDISTAT-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
P	POTENTIOMETER-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
TS	TIME SWITCH	
PS	PHOTOELECTRIC SWITCH	
	CIRCUITING	
	HOME RUN. MIN 3/4" C. ARROWS AND SUBSCRIPTS INDICATE NUMBER AND IDENTIFICATION OF CIRCUITS.	
	CONTROL WIRE. SEE SPECIFICATION SECTION 260536	
	EMERGENCY. MIN 1/2" C-#10 AWG.	
T	TELEPHONE. MIN 3/4"C, HOME RUN TO TERMINAL BOARD	
T	TELEPHONE. MIN 3/4"C, STUB INTO CEILING SPACE	
LV	LOW VOLTAGE. MIN 1/2"C-#14 AWG AS REQ'D.	
FA	SPECIAL SYSTEMS. MIN 3/4"C. PROVIDE CONDUCTORS AS REQ'D BY MANUFACTURER. SUBSCRIPT INDICATES SYSTEM. SEE STANDARD ABBREVIATIONS.	
	FIRE ALARM SYSTEMS	
P	DETECTOR. SUBSCRIPT DESCRIBES TYPE: D-DUCT, H-HEAT, P-PHOTOELECTRIC, C-CARBON-MONOXIDE.	CEILING
C	CHIME	88"
D	MAGNETIC DOOR HOLDER	
I	ADDRESSABLE INPUT MODULE	
R	ADDRESSABLE RELAY MODULE	
FS	FLOW SWITCH	
M	MANUAL STATION	46"
A	AUDIBLE ALARM NOTIFICATION APPLIANCE (HORN)	88"
V	VISUAL ALARM NOTIFICATION APPLIANCE	88"
AV	COMBO AUDIBLE/VISUAL ALARM NOTIFICATION APPLIANCE	88"
VS	MAIN VALVE SUPERVISORY (TAMPER") SWITCH	
	SECURITY AND SURVEILLANCE SYSTEMS	
	ELECTRIC DOOR CONTROL	
	DOOR POSITION SENSOR	
CR	PROXIMITY CARD READER	46"
DCX	DOOR CONTROL PANEL	
PS	POWER SUPPLY	
	LOCKDOWN BUTTON	
	INTERCOM/DOOR CONTROL	
CM	SECURITY CAMERA - SEE SPECIFICATION SECTION 282000 FOR TYPE	

STANDARD ABBREVIATIONS

AC	ABOVE COUNTER (MIN 4" ABOVE BACKSPLASH)	LV	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
ATC	AUTOMATIC TEMPERATURE CONTROL	MCB	MAIN CIRCUIT BREAKER
BOF	BOTTOM OF FIXTURE	MLO	MAIN LUG ONLY
CKT	CIRCUIT	NC	NURSE CALL
DT	DUST TIGHT	NFDS	NON-FUSIBLE DISCONNECT SWITCH
DTR	DATA RACK	NR	NOT REQUIRED
EC	ELECTRICAL CONTRACTOR	PA	PUBLIC ADDRESS
EGC	EQUIPMENT GROUNDING CONDUCTOR	RGSC	RIGID GALVANIZED STEEL CONDUIT
EM	EMERGENCY	RT	ROOM THERMOSTAT
EP	EXPLOSION PROOF	S	SECURITY
EWC	ELECTRIC WATER COOLER	SD	SEE DETAIL
EWH	ELECTRIC WATER HEATER	SS	SURGE SUPPRESSION
F	FUSED	SW	SWITCH
FA	FIRE ALARM	T	TELEPHONE
FACP	FIRE ALARM CONTROL PANEL	TOP	TOP OF PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR	TSSW	TWO SPEED SUPERATE WINDING
FDS	FUSIBLE DISCONNECT SWITCH	TTB	TELEPHONE TERMINAL BOARD
FLA	FULL LOAD AMPERES	U	USB COMBINATION RECEPTACLE
FVNR	FULL VOLTAGE NON REVERSING	VFD	VARIABLE FREQUENCY DRIVE
FVR	FULL VOLTAGE REVERSING	VT	VAPOR TIGHT
GRA	GENERATOR REMOTE ANNUNCIATOR	W	WALL MTG. (46" AFF)
IC	INTERCOM	WAP	WIRELESS ACCESS POINT
IG	ISOLATED GROUND	WP	WEATHERPROOF
IL	INTERLOCK	WT	WATER TIGHT
		WM	WIREMOLD

SPECIAL SYMBOLS PECULIAR TO THIS PROJECT

	NURSE CALL HALLWAY DOME LIGHT. "F" INDICATES FLASHING
	NURSE CALL STATION. D - DUTY STATION, S - STAFF & CODE STATION, P - PATIENT STATION, R - ROOM STATION, T - TOILET STATION, M - MANUAL

SPECIAL ABBREVIATIONS PECULIAR TO THIS PROJECT

RACP	RESCUE ASSIST CONTROL PANEL	RAEX	RESCUE ASSIST EXPANSION MODULE
RABS	RESCUE ASSIST BASE STATION	ACP	ACCESS CONTROL PANEL
RACS	RESCUE ASSIST CALL STATION		

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NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E000
LEGENDS AND DETAILS

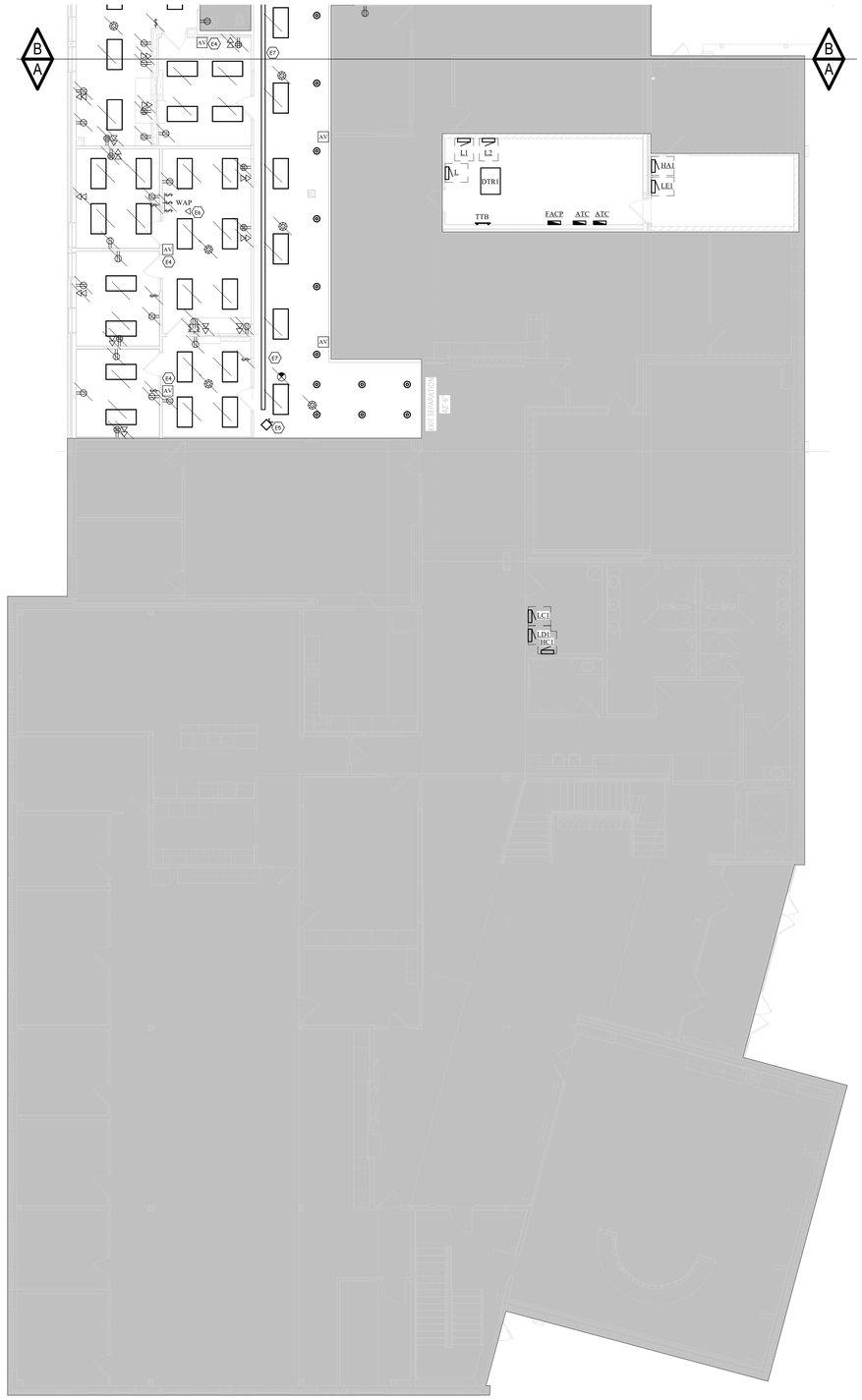
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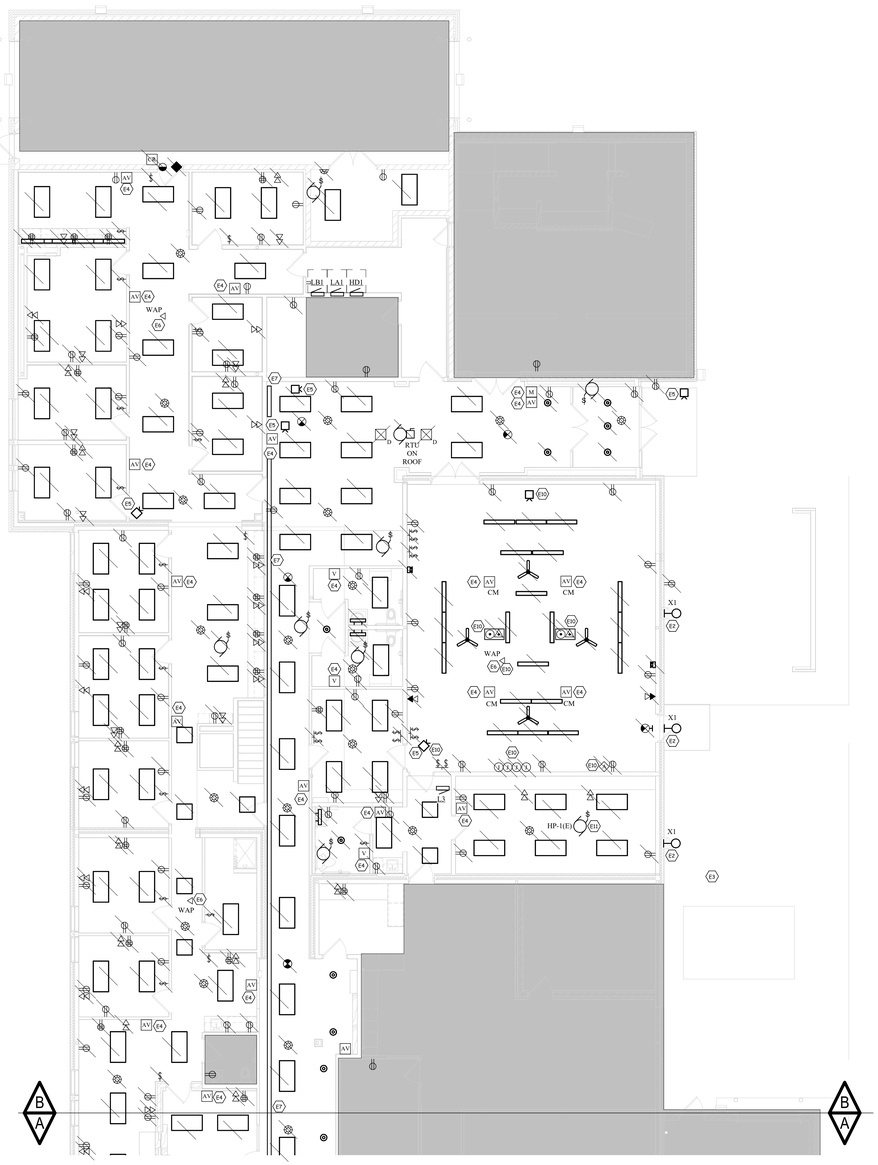
Keynote Legend	
E2	REMOVE EXISTING EXTERIOR LIGHT FIXTURES AND RETAIN FOR REUSE.
E3	COORDINATE RELOCATION OF EXISTING TRANSFORMER WITH SERVING UTILITY COMPANY.
E4	REMOVE EXISTING FIRE ALARM DEVICE AND RETAIN FOR REINSTALL AS APPLICABLE.
E5	COORDINATE REMOVAL OF EXISTING SURVEILLANCE EQUIPMENT WITH OWNER. TURN OVER EQUIPMENT TO OWNER FOR REUSE.
E6	COORDINATE REMOVAL WIRELESS ACCESS POINT WITH OWNER. TURN OVER EQUIPMENT TO OWNER FOR REUSE.
E7	EXISTING CABLE TRAY TO REMAIN.
E10	COORDINATE REMOVAL OF ND COURTS EQUIPMENT WITH VENDOR (FORTE/AVI) PRIOR TO DEMOLITION. ALL EQUIPMENT MUST BE TURN OVER FOR REUSE BY THE VENDOR.
E11	DISCONNECT EXISTING HEAT PUMP FOR REMOVAL BY OTHERS. RETAIN ELECTRICAL DISCONNECT FOR REUSE AT THE NEW LOCATION FOR THIS HEAT PUMP. SPLICE AND EXTEND WIRING TO NEW LOCATION AS REQUIRED.

GENERAL NOTES

1. FIELD VERIFY ALL PERTINENT EXISTING CONDITIONS AND INSTALLATION REQUIREMENTS IN CONNECTION WITH REMODEL. MAKE ALLOWANCES IN BID THERETO.
2. DEVICES WITH SLASH THROUGH INDICATE SPECIFIC EXISTING DEVICES TO BE REMOVED. REMOVE OR RELOCATE ANY ELECTRICAL DEVICE REQUIRED BY REMODEL OPERATIONS. EXTEND EXISTING CIRCUITRY AS REQUIRED TO MAINTAIN DOWNSTREAM DEVICES OR FIXTURES. DISCONNECT AND REMOVE ANY EXISTING CIRCUITRY NOT BEING REUSED. RE-IDENTIFY EXISTING PANEL DIRECTORIES AS REQUIRED.
3. SEE SPECIFICATION 260510 FOR REMODEL.



1 E101 — Existing First Floor - Area A
1/8" = 1'-0"



2 E101 — Existing First Floor - Area B
1/8" = 1'-0"

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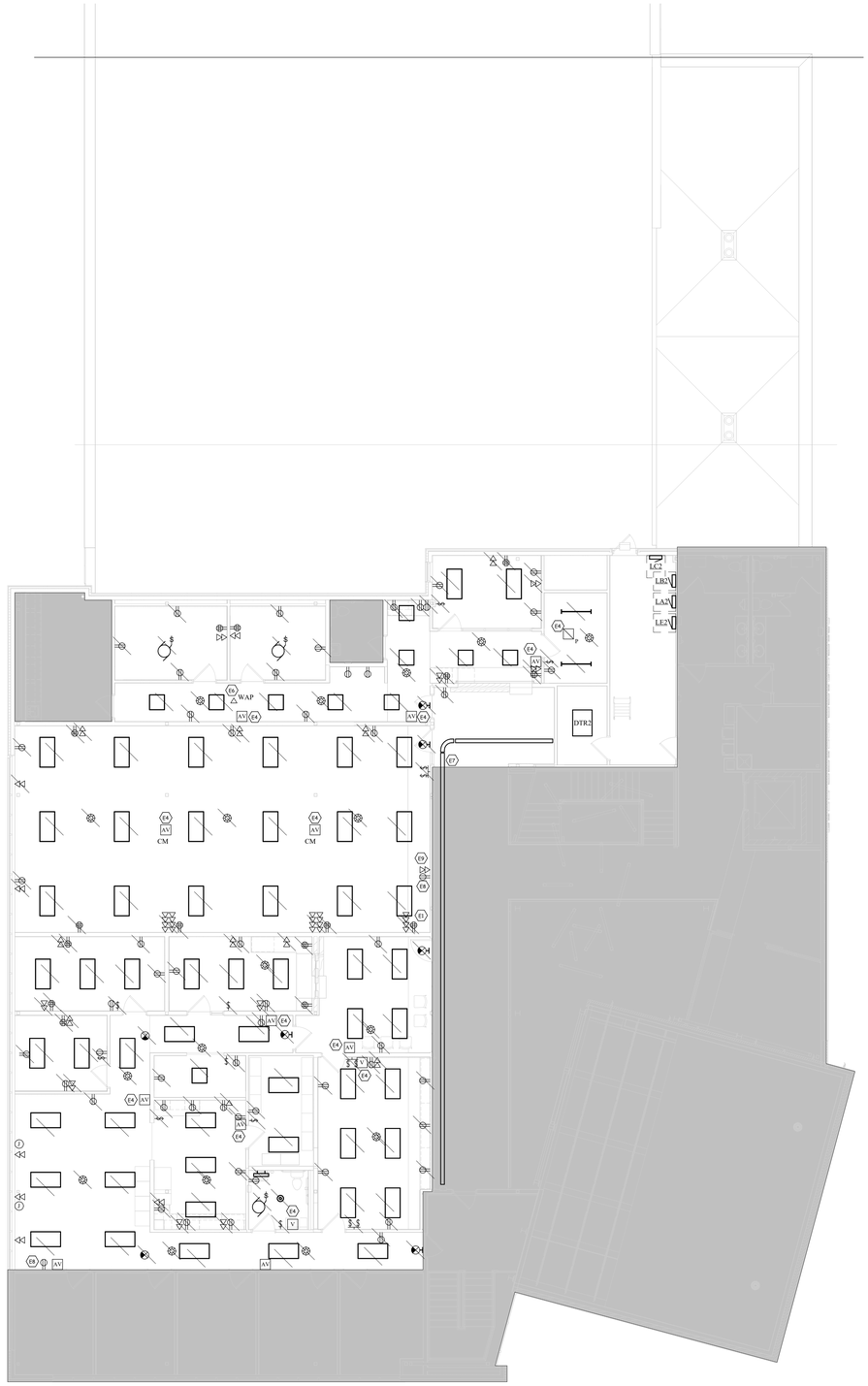
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NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: PE 25018
SHEET: E101
EXISTING LEVEL 1

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1 E102 — Existing Second Floor - Area A
1/8" = 1'-0"

Keynote Legend	
E1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
E4	REMOVE EXISTING FIRE ALARM DEVICE AND RETAIN FOR REINSTALL AS APPLICABLE.
E6	COORDINATE REMOVAL WIRELESS ACCESS POINT WITH OWNER. TURN OVER EQUIPMENT TO OWNER FOR REUSE.
E7	EXISTING CABLE TRAY TO REMAIN.
E8	REMOVE EXISTING FACE PLATE AND RECEPTACLE. PROVIDE NEW FACEPLATE, RECEPTACLE AND RE-TERMINATE.
E9	REMOVE EXISTING FACE PLATE. PROVIDE NEW FACEPLATE AND REINSTALL DATA JACKS.

GENERAL NOTES

1. FIELD VERIFY ALL PERTINENT EXISTING CONDITIONS AND INSTALLATION REQUIREMENTS IN CONNECTION WITH REMODEL. MAKE ALLOWANCES IN BID THERETO.
2. DEVICES WITH SLASH THROUGH INDICATE SPECIFIC EXISTING DEVICES TO BE REMOVED. REMOVE OR RELOCATE ANY ELECTRICAL DEVICE REQUIRED BY REMODEL OPERATIONS. EXTEND EXISTING CIRCUITRY AS REQUIRED TO MAINTAIN DOWNSTREAM DEVICES OR FIXTURES. DISCONNECT AND REMOVE ANY EXISTING CIRCUITRY NOT BEING REUSED. RE-IDENTIFY EXISTING PANEL DIRECTORIES AS REQUIRED.
3. SEE SPECIFICATION 260510 FOR REMODEL.

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MANNING, ND

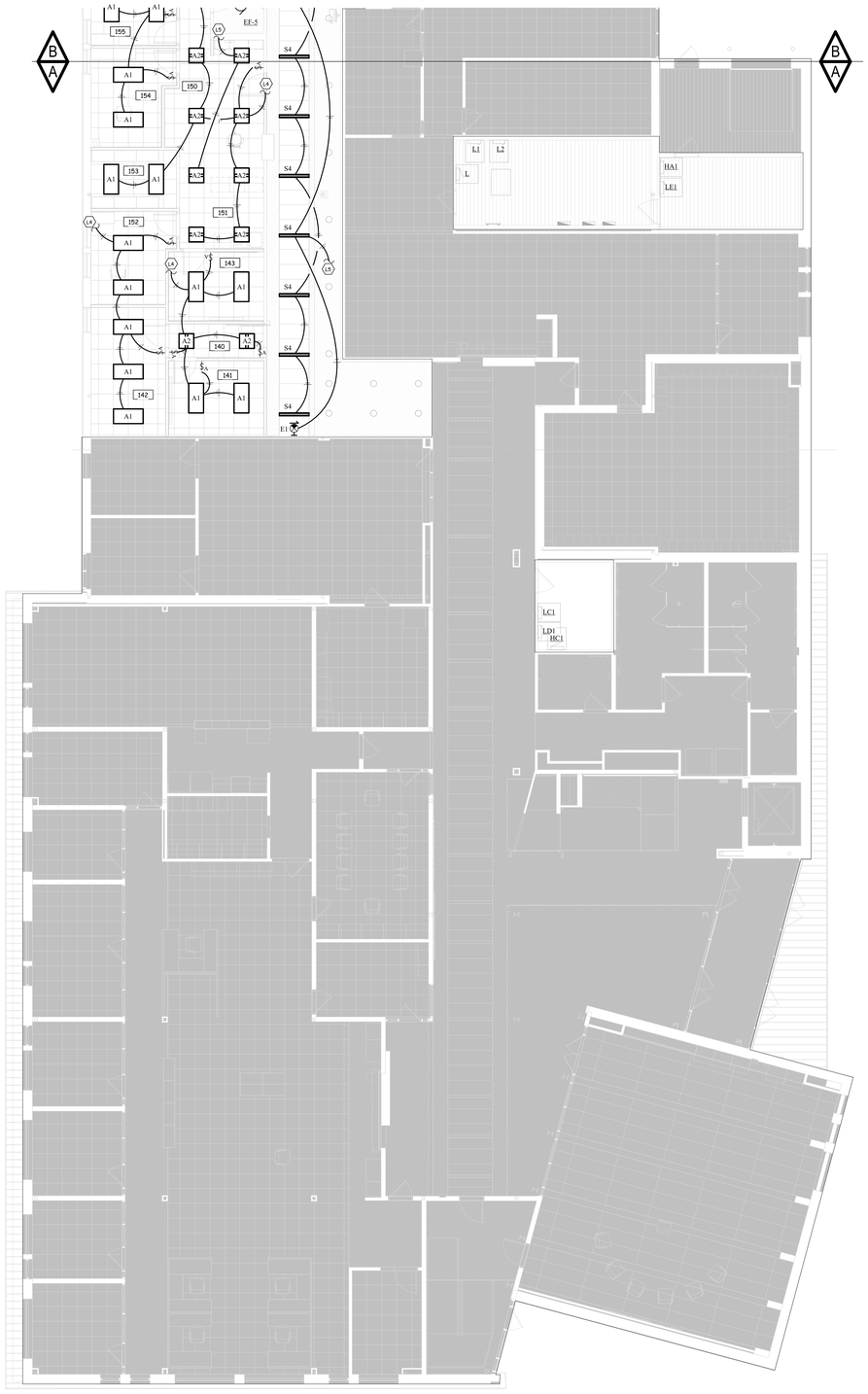
DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: PE 25018
SHEET: E102
EXISTING LEVEL 2

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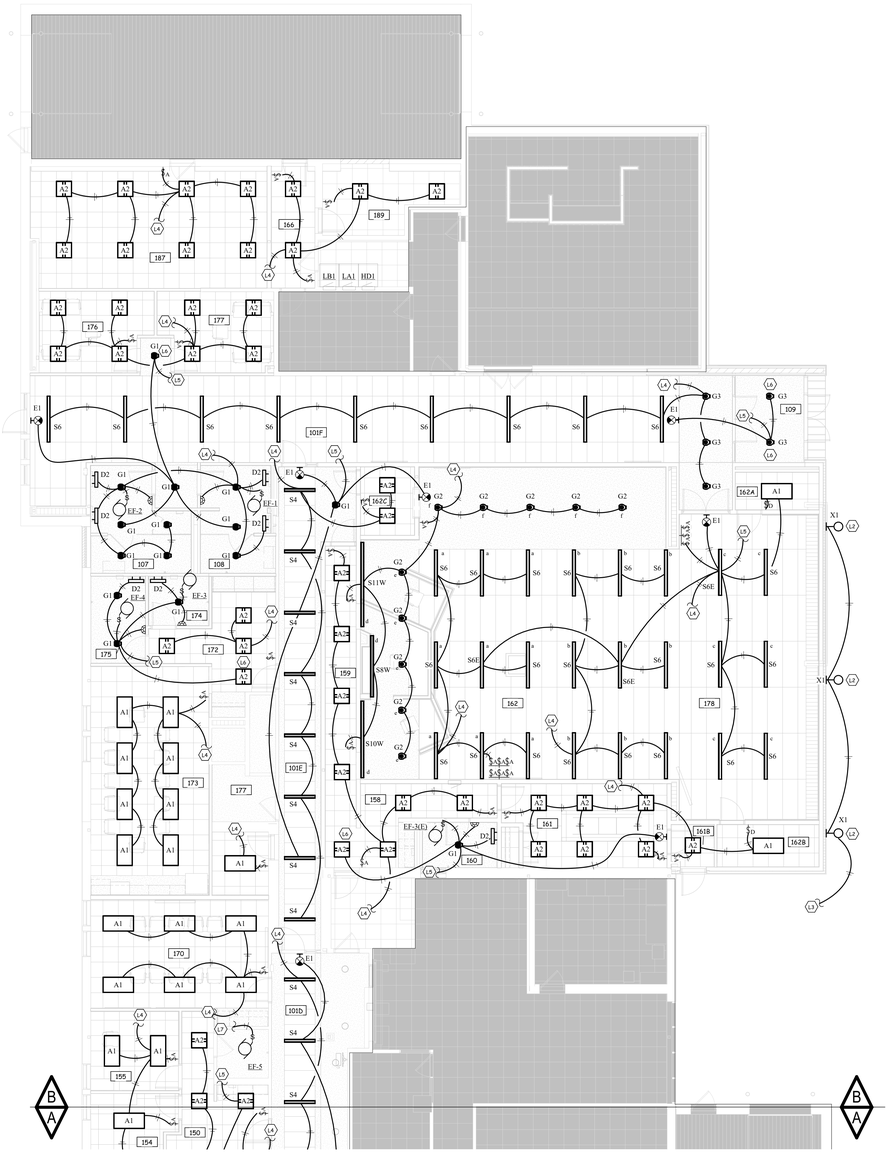
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Room Schedule		
Number	Name	Area
100	VESTIBULE	229 SF
101A	MAIN LOBBY	1,820 SF
101B	SOUTH HALL	830 SF
101C	ALCOVE	238 SF
101D	NORTH HALLWAY	853 SF
101E	COURTS HALLWAY	390 SF
101F	COURT LOBBY	1,176 SF
101G	KITCHENETTE	76 SF
107	WOMEN RESTROOM	152 SF
108	MEN RESTROOM	129 SF
109	VESTIBULE	108 SF
131	WORKROOM	244 SF
140	HALLWAY	57 SF
141	FLEX SPACE	127 SF
142	OFFICE	171 SF
143	CONF. RM	117 SF
150	RECEPTION	309 SF
151	WORK AREA	62 SF
152	OFFICE	132 SF
153	WORK ROOM/ FILES	89 SF
154	OFFICE	133 SF
155	OFFICE	117 SF
158	HALLWAY	147 SF
159	HALLWAY	147 SF
160	RESTROOM	57 SF
160A	CLOSET	12 SF
161	JUDGE'S CHAMBER	219 SF
161B	EXIT	30 SF
162	COURTROOM	1,499 SF
162A	STORAGE	53 SF
162B	A.V. STORAGE	73 SF
162C	JURY EXIT	62 SF
166	HALL	90 SF
170	CONFERENCE	343 SF
171	LAUNDRY	60 SF
172	ENTRY	176 SF
173	JURY ROOM	382 SF
174	RESTROOM	50 SF
175	RESTROOM	80 SF
176	MEETING ROOM	148 SF
177	MEETING ROOM	149 SF
177	BASEMENT STAIR	92 SF
178	GALLERY	761 SF
187	MECH OR STORAGE	482 SF
189	HOLDING ROOM	139 SF

Keynote Legend	
L2	REINSTALL EXISTING EXTERIOR LIGHT (X1) AT THIS LOCATION. MOUNT AT THE SAME HEIGHT AS THE ADJACENT EXTERIOR LIGHTING.
L3	CIRCUIT TO EXISTING EXTERIOR LIGHTING CIRCUITRY.
L4	CIRCUIT TO EXISTING UNSWITCHED 120V LIGHTING CIRCUIT IN THIS AREA.
L5	CIRCUIT TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA.
L6	UNSWITCHED.
L7	CIRCUIT TO EXISTING RESTROOM LIGHTS.



1 E201 Lighting Plan - First Floor - Area A
1/8" = 1'-0"



2 E201 Lighting Plan - First Floor - Area B
1/8" = 1'-0"

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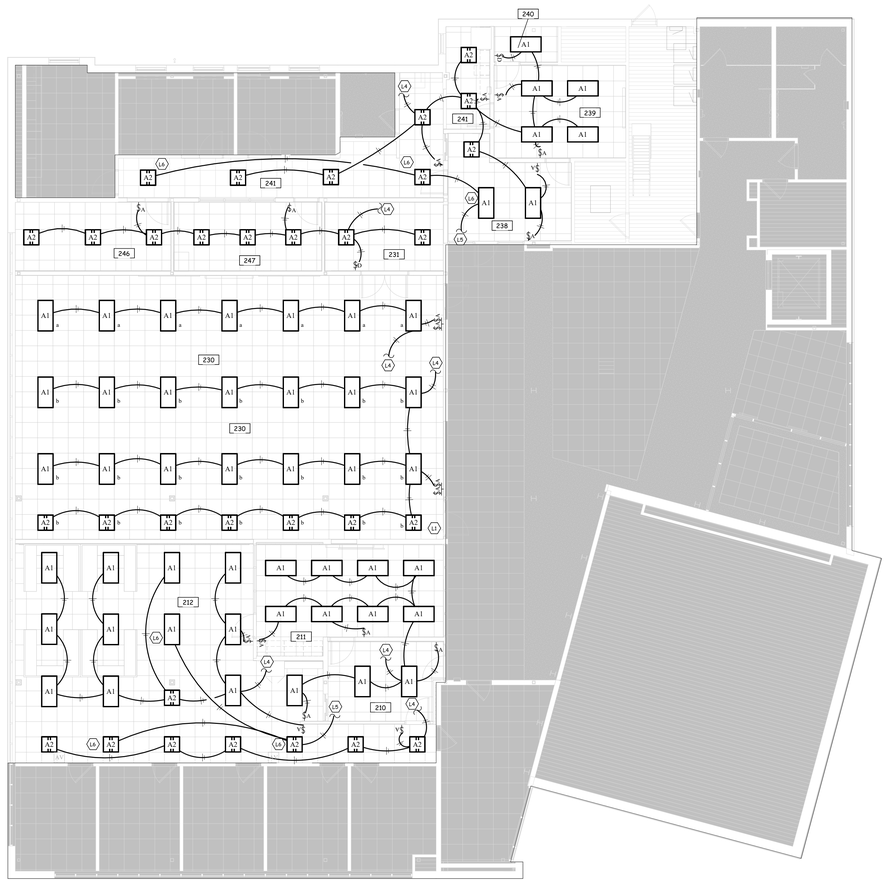
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DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
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CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E201
LEVEL 1 LIGHTING PLAN

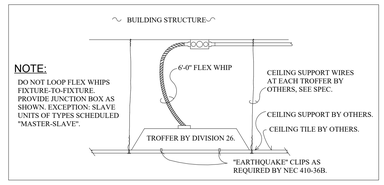
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1 E202 — Lighting Plan - Second Floor - Area A
1/8" = 1'-0"

Keynote Legend	
L1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
L4	CIRCUIT TO EXISTING UNSWITCHED 120V LIGHTING CIRCUIT IN THIS AREA.
L5	CIRCUIT TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA.
L6	UNSWITCHED.



2 E202 — TROFFER INSTALLATION DETAIL
1/8" = 1'-0"

FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DELIVERED LUMENS	FINISH	MOUNTING	REMARKS
A1	METALUX MARK ARCHITECTURAL	24RLN LD5 60 UNV L840 CD 1 WPS WHSPR LCTR SERIES	6,000	WHITE	SD 2/E202	2' X 4' LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
A2	METALUX MARK ARCHITECTURAL	22RLN LD5 44 UNV L840 CD 1 WPS WHSPR LCTR SERIES	4,400	WHITE	SD 2/E202	2' X 2' LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
D2	FAIL SAFE LUMINAIRE LED	HVSL4 2 LD4 2 LO 40 UNV O EDC1 BK SPC4 SERIES	2,000	BLACK	WALL MOUNTED	2' LED WALL BRACKET WITH OPAL LENS, AND VERTICAL TRIM BARS. 4000K
E1	MULE LIGHTING	U-PVT-A-BA	INTEGRAL LED'S	BRUSHED ALUMINUM	NOTE 1	UNIVERSAL FACE AND MOUNT LED EXIT WITH GREEN LETTERS.
G1	HALO COMMERCIAL LITHONIA	HC6 20 D010 WPN HM6 0525 840 61 WD H LDN6 SERIES	2,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WITH WIDE DISTRIBUTION. 4000K
G2	HALO COMMERCIAL	HCSQ6 30 D010 WPN HM6 3040 840 61SQ H	3,000	SEMI-SPECULAR SILVER	SURFACE CEILING	6" LED SQUARE DOWNLIGHT WITH WIRELESS CONTROLS. 4000K
S4	NEORAY	S124DR-S1020D840-FTG4FO-1-U-DD-F-W-WPS	1,000/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K
S6	NEORAY	S124DR-S1020D840-FTG6FO-1-U-DD-F-W-WPS	1,000/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K
S6E	NEORAY	S124DR-S1020D840-FTG6FO-1-U-DD-F-W-WPS	1,000/FT	WHITE	RECESSED CEILING	SAME AS S6 EXCEPT GENERATOR TRANSFER DEVICE.
S8W	NEORAY	S122DR-S485D840-GYP8FO-1-U-DD-W-W-WPN	500/FT	WHITE	RECESSED CEILING	SAME AS S4 EXCEPT 8 FOOT AND WALL WASH
S10W	NEORAY	S122DR-S485D840-GYP10FO-1-U-DD-W-W-WPN	500/FT	WHITE	RECESSED CEILING	SAME AS S8W EXCEPT 10 FOOT
S11W	NEORAY	S122DR-S485D840-GYP11FO-1-U-DD-W-W-WPN	500/FT	WHITE	RECESSED CEILING	SAME AS S8W EXCEPT 11 FOOT
X1	EXISTING	LED AREA LIGHT	-	-	WALL MOUNT NOTE 2	EXISTING WEDGE AREA LIGHT

NOTES:

1. WALL MOUNT DIRECTLY ABOVE EXIT DOOR WHERE POSSIBLE. CEILING OR END MOUNT IN REMAINING LOCATIONS AS DICTATED BY BUILDING CONDITIONS.
2. COORDINATE MOUNTING HEIGHT TO ALIGN WITH THE OTHER FIXTURES OF THE SAME TYPE ON THE EXISTING BUILDING.

LIGHTING SWICTH SCHEDULE

BASED ON nLight AIR PART NUMBERS (OR EQUAL SYSTEM BY WAVELINX)

SYMBOL	DESCRIPTION	PART #
$A	LINE POWERED WALL SWITCH, ON/OFF, RAISE/LOWER DIMMING CONTROL	RPODLA-DX
$B	LINE POWERED WALL SWITCH, 2-POLE ON/OFF, TWO RAISE/LOWER DIMMING CONTROLS	RPODLA-2P-DX
$C	LOW VOLTAGE WALL SWITCH, 2-POLE ON/OFF, RAISE/LOWER DIMMING CONTROL AND CCT CONTROL	nPODM-2P-DX-CTT
$D	LINE POWERED WALL SWITCH, ON/OFF	RPODLA
$E	LINE POWERED WALL SWITCH, 2-POLE ON/OFF	RPODLA-2P
	WALL MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 262726	
D	WALL MOUNTED OCCUPANCY SENSOR (TYPE D) WITH DIMMING CONTROL - SEE SPECIFICATION SECTION 262726	
	CEILING MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 262726	

Room Schedule

Number	Name	Area
210	LOBBY	148 SF
211	CONFERENCE	316 SF
212	COLLABORATION SPACE	729 SF
213	WORKSTATION	75 SF
218	OFFICE	145 SF
225	HALL	275 SF
230	LARGE MEETING ROOM	1,919 SF
231	TABLE/ CHAIR	137 SF
238	LOBBY	186 SF
239	CONFERENCE	208 SF
240	STORAGE	38 SF
241	HUMAN SERVICES	374 SF
243	OFFICE	127 SF
244	OFFICE	149 SF
245	WORKROOM	196 SF
246	OFFICE	181 SF
247	COMFORT ROOM	171 SF

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E202
LEVEL 2 LIGHTING PLAN

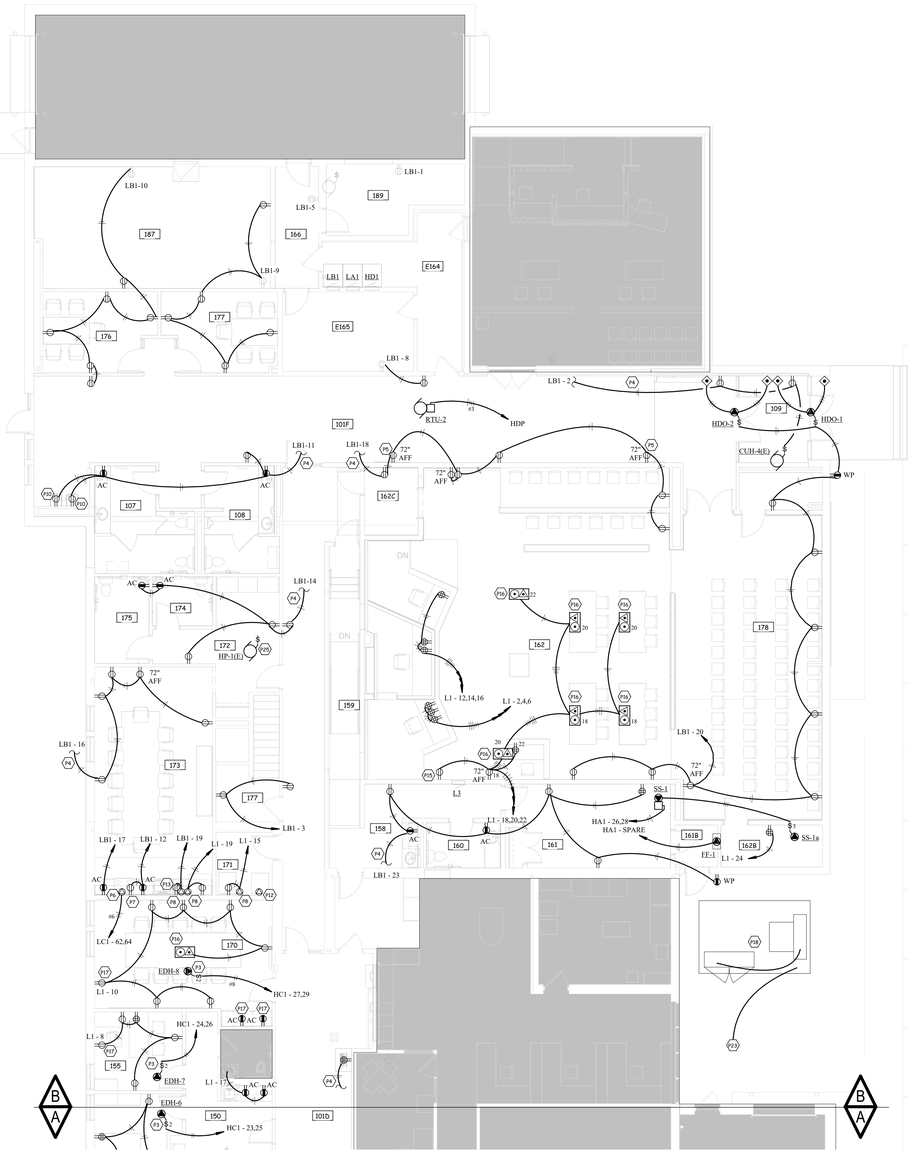
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Room Schedule		
Number	Name	Area
100	VESTIBULE	229 SF
101A	MAIN LOBBY	1,820 SF
101B	SOUTH HALL	830 SF
101C	ALCOVE	238 SF
101D	NORTH HALLWAY	853 SF
101E	COURTS HALLWAY	390 SF
101F	COURT LOBBY	1,176 SF
101G	KITCHENETTE	76 SF
107	WOMEN RESTROOM	152 SF
108	MEN RESTROOM	129 SF
109	VESTIBULE	108 SF
131	WORKROOM	244 SF
140	HALLWAY	57 SF
141	FLEX SPACE	127 SF
142	OFFICE	171 SF
143	CONF. RM	117 SF
150	RECEPTION	309 SF
151	WORK AREA	62 SF
152	OFFICE	132 SF
153	WORK ROOM/ FILES	89 SF
154	OFFICE	133 SF
155	OFFICE	117 SF
158	HALLWAY	147 SF
159	HALLWAY	147 SF
160	RESTROOM	57 SF
160A	CLOSET	12 SF
161	JUDGE'S CHAMBER	219 SF
161B	EXIT	30 SF
162	COURTROOM	1,499 SF
162A	STORAGE	53 SF
162B	A.V. STORAGE	73 SF
162C	JURY EXIT	62 SF
166	HALL	90 SF
170	CONFERENCE	343 SF
171	LAUNDRY	60 SF
172	ENTRY	176 SF
173	JURY ROOM	382 SF
174	RESTROOM	50 SF
175	RESTROOM	80 SF
176	MEETING ROOM	148 SF
177	MEETING ROOM	149 SF
177	BASEMENT STAIR	92 SF
178	GALLERY	761 SF
187	MECH OR STORAGE	482 SF
189	HOLDING ROOM	139 SF

Keynote Legend	
P3	DEDUCT UNDER ALTERNATE 3.
P4	CIRCUIT TO UNSWITCHED 120V GENERAL POWER CIRCUIT IN AREA.
P5	PROVIDE WIREMOLD #EFSB2, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX, MATCH LOCATIONS WITH NOTE S8.
P6	PROVIDE AND INSTALL NEMA 14-50R RECEPTACLE FOR RANGE. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P7	CONNECT TO RANGE HOOD AND HOOD LIGHTS.
P8	PROVIDE AND INSTALL BLANK FACE GFCI ABOVE COUNTER FOR THE DOWNSTREAM DEVICE.
P9	POWER FOR CONTROLLED ACCESS PANEL
P10	LOAD SIDE GFCI
P12	PROVIDE AND INSTALL NEMA 14-30R RECEPTACLE FOR DRYER. PROVIDE MATCHING CORD AND PLUG.
P13	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P15	RELOCATE EXISTING PANEL FROM OLD ADJACENT WALL. SPLICE AND EXTEND CIRCUITRY AS REQUIRED.
P16	GC TO CUT/PATCH EXISTING CONCRETE FLOOR AS REQUIRED FOR FLOORBOX INSTALLATION. VERIFY EXACT LOCATION OF FLOORBOX WITH ARCHITECT/ENGINEER.
P17	PROVIDE NEW RECEPTACLE AT EXISTING RECEPTACLE LOCATION.
P18	PROVIDE EXTENSION ON EXISTING TRANSFORMER PAD AND PULL BACK EXISTING FEEDERS FOR REUSE BETWEEN THE NEW TRANSFORMER LOCATION AND THE EXISTING CT CABINET. PROVIDE EIGHT (8) 4" CONDUITS BETWEEN THE CT AND THE TRANSFORMER FOR THE FEEDERS.
P21	PROVIDE TWO (2) 50A 2-POLE GFCI BREAKERS IN AVAILABLE SPACE IN PANEL LC1. SQUARE-D #QO/QOB-GFI. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
P22	PROVIDE TWO (2) 40A 2-POLE, FIVE (5) 20A 2-POLE, AND BREAKERS IN AVAILABLE SPACE IN PANEL HC1. SQUARE-D #QO/QOB STYLE. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
P23	PULL BACK EXISTING FIRE PUMP FEEDER AND REROUTE TO NEW TRANSFORMER LOCATION. INTEREPT THE 2" CONDUIT IN THIS APPROXIMATE LOCATION AND EXTEND TO THE TRANSFORMER FOR THE FEEDERS.
P24	PROVIDE AND INSTALL A 125/3 CIRCUIT BREAKER FOR RTU-2. REMOVE EXISTING 100/3 SPARE AND TURN OVER TO OWNER. SQUARE-D #QGA32125. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.
P25	NEW LOCATION FOR EXISTING HEAT PUMP. EXTEND WIRING FROM OLD LOCATION AND CONNECT TO HEAT PUMP.
P26	PROVIDE ONE (1) 30A 2-POLE BREAKER IN AVAILABLE SPACE IN PANEL HA1. SQUARE-D #EGB24030. VERIFY EXACT BREAKER REQUIRED PRIOR TO INSTALLATION.





1 E301 Power Plan - First Floor - Area A
1/8" = 1'-0"

2 E301 Power Plan - First Floor - Area B
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
JASON L. GUNVILLE
DATE 10/21/25
NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E301
LEVEL 1 POWER PLAN

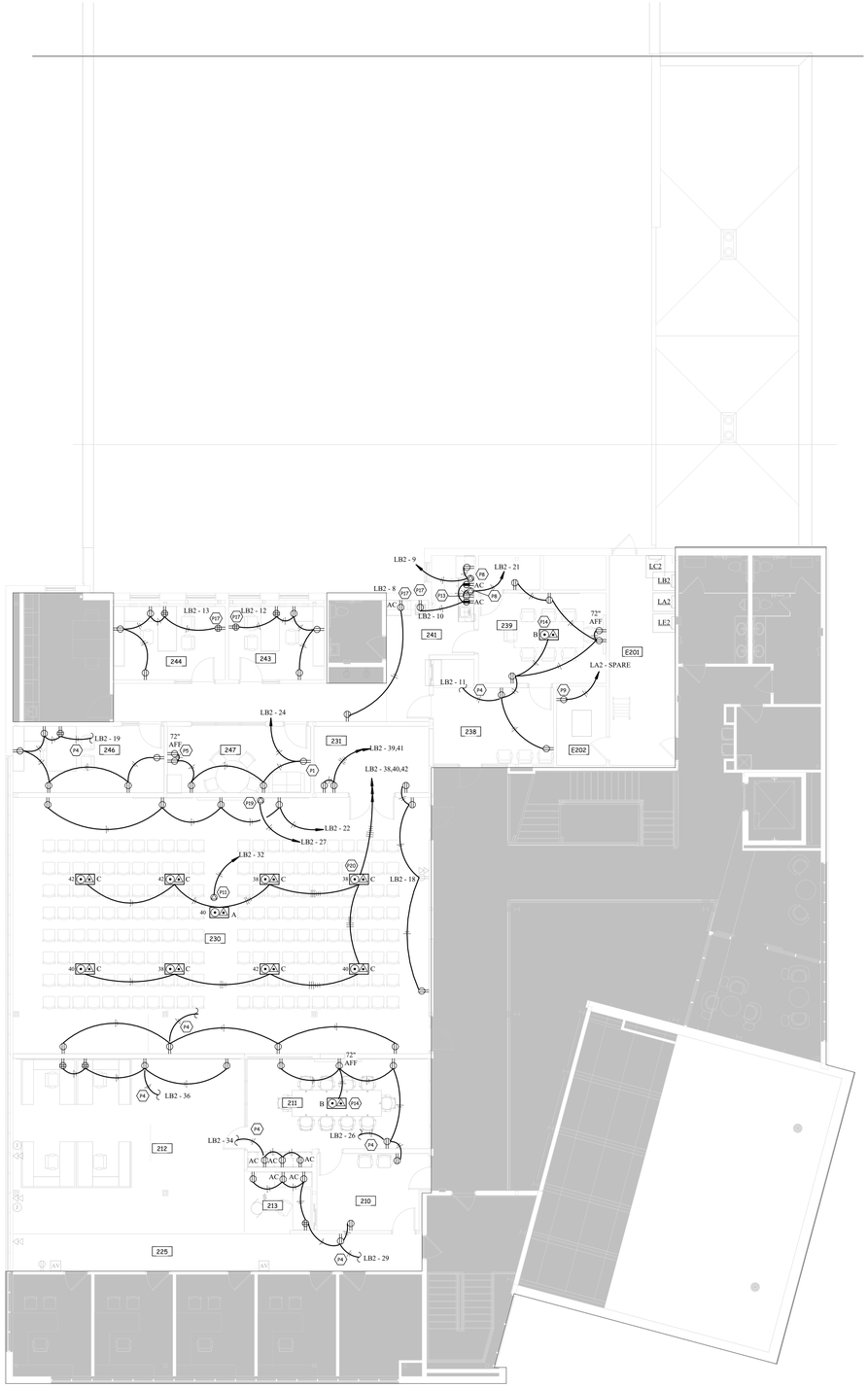
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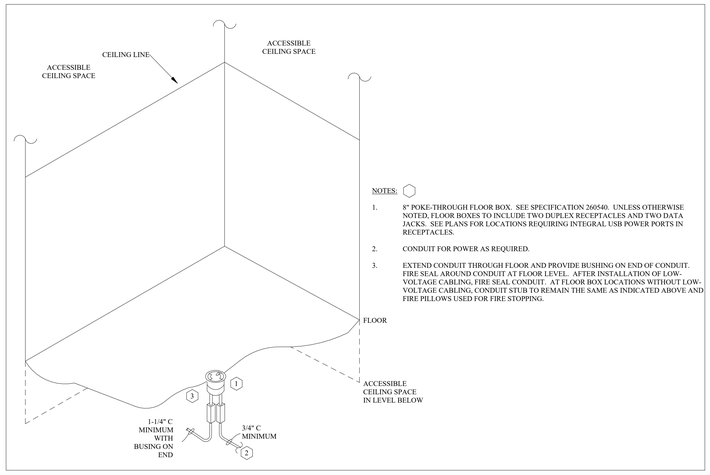
Keynote Legend	
P1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
P4	CIRCUIT TO UNSWITCHED 120V GENERAL POWER CIRCUIT IN AREA.
P5	PROVIDE WIREMOLD #EFSB2, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE S8.
P8	PROVIDE AND INSTALL BLANK FACE GFCI ABOVE COUNTER FOR THE DOWNSTREAM DEVICE.
P9	POWER FOR CONTROLLED ACCESS PANEL
P11	PROVIDE NEMA 5-20R RECEPTACLE FOR PROJECTOR POWER. PROVIDE CHIEF #CMS445 PROJECTOR MOUNTING PLATE AND PROPERLY SUPPORT FROM STRUCTURAL MEMBERS ABOVE PER MANUFACTURER INSTRUCTIONS. RECEPTACLE SHALL MOUNT TO THE FACE OF PLATE ALONG WITH THE "XO" AV DEVICE. COORDINATE EXACT LOCATION AND HEIGHT WITH PROJECTOR SYSTEMS KEYNOTE.
P13	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P14	SEE DETAIL 1/E404 OR 2/E404 FOR MTR FLOOR BOX.
P17	PROVIDE NEW RECEPTACLE AT EXISTING RECEPTACLE LOCATION.
P19	PROVIDE 4-WIRE CONTROL CONNECTION TO PROJECTOR SCREEN. COORDINATE EXACT LOCATION WITH GC AND AV CONTRACTOR.
P20	SEE DETAIL 4/E304 FOR POKE THROUGH FLOOR BOX GENERAL NOTES. REFER TO SPECIFICATION SECTION 260540. TYPICAL FOR ALL FLOOR BOXES.

MOTOR & EQUIPMENT SCHEDULE - MINOT

DESIG.	EQUIPMENT SERVED	HP/AMPS	VOLT	PHASE	DISCONNECT (BY EC)	CONTROLLER (BY EC)	CONTROL INITIATING DEVICE			NOTE
							DEVICE	FURN	MTD	
CUH-4(E)	EXISTING UNIT HEATER	1/4	120 V	1	20/1 TOGGLE	INTEGRAL	ATC	ATC	ATC	
EDH-1	ELECTRIC DUCT HEATER	2000W	120 V	1	20/1 TOGGLE	NR	ATC	ATC	ATC	PROVIDE BRYANT #30002D, OR EQUAL, 30A/2P TOGGLE DISCONNECT.
EDH-2,3,4,6,7	ELECTRIC DUCT HEATER	3000W	208 V	1	30/2 TOGGLE	NR	ATC	ATC	ATC	PROVIDE BRYANT #30002D, OR EQUAL, 30A/2P TOGGLE DISCONNECT.
EDH-5,8	ELECTRIC DUCT HEATER	6000W	208 V	1	40/2 TOGGLE	NR	ATC	ATC	ATC	PROVIDE BRYANT #40002D, OR EQUAL, 30A/2P TOGGLE DISCONNECT.
EF-1 THRU 5	EXHAUST FAN	FRAC	120 V	1	20/1 TOGGLE	INTEGRAL	SWITCH W /LITES	EC	EC	
EF-3(E)	EXISTING FAN	FRAC	120 V	1	20/1 TOGGLE	INTEGRAL	SWITCH W /LITES	EC	EC	
HP-1(E)	EXISTING HEAT PUMP	8 MCA	208 V	3	USE EXISTING	NR	ATC	ATC	ATC	
RTU-2	ROOF TOP UNIT	95 MCA	208 V	3	200/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	PROVIDE DUCT DETECTION AS PER SPECIFICATION SECTION 283111 AND DETAIL 3/E403.
SP-1	SUMP PUMP	1/2	120 V	1	CORD & PLUG	INTEGRAL	FLOAT	MC	MC	
SS-1	SPLIT SYSTEM AC	15.5 MCA	208 V	1	30/2 NEMA 3R FDS	INTEGRAL	INTEGRAL	MC	ATC	
SS-1a	INDOOR SPLIT UNIT	NA	208 V	1	20A 3-POLE TOGGLE	NR	SS-1	-	-	
WH-1	WATER HEATER	1500W	120 V	1	20/1 TOGGLE	NR	INTEGRAL	MC	MC	



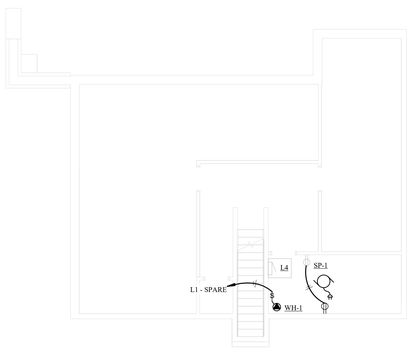
1 E302 Power Plan - Second Floor - Area A
1/8" = 1'-0"



3 E302 POKE-THRU FLOOR BOX
1/8" = 1'-0"

ELECTRIC HEAT SCHEDULE					
TYPE	MANUFACTURER	CATALOG NO.	WATTAGE	VOLTAGE	REMARKS
EF-1	BERKO	SED1012C	1000	120	SMALL FAN FORCED WALL HEATER WITH INTEGRAL THERMOSTAT.

NOTES:
1. CONTINGENT UPON MEETING ALL SPECIFICATIONS, THE FOLLOWING HEATER MANUFACTURERS ARE ACCEPTABLE FOR BIDDING: DIMPLEX, OUELLET, QMARK, AND RAYWALL.
2. DISCONNECT SWITCH AND/OR THERMOSTAT SHALL COMPLY WITH NEC "POSITIVE OFF" REQUIREMENTS.



Room Schedule		
Number	Name	Area
210	LOBBY	148 SF
211	CONFERENCE	316 SF
212	COLLABORATION SPACE	729 SF
213	WORKSTATION	75 SF
218	OFFICE	145 SF
225	HALL	275 SF
230	LARGE MEETING ROOM	1,919 SF
231	TABLE/ CHAIR	137 SF
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240	STORAGE	38 SF
241	HUMAN SERVICES	374 SF
243	OFFICE	127 SF
244	OFFICE	149 SF
245	WORKROOM	196 SF
246	OFFICE	181 SF
247	COMFORT ROOM	171 SF

2 E302 Power Plan - Basement - Area B
1/8" = 1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

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MANNING, ND

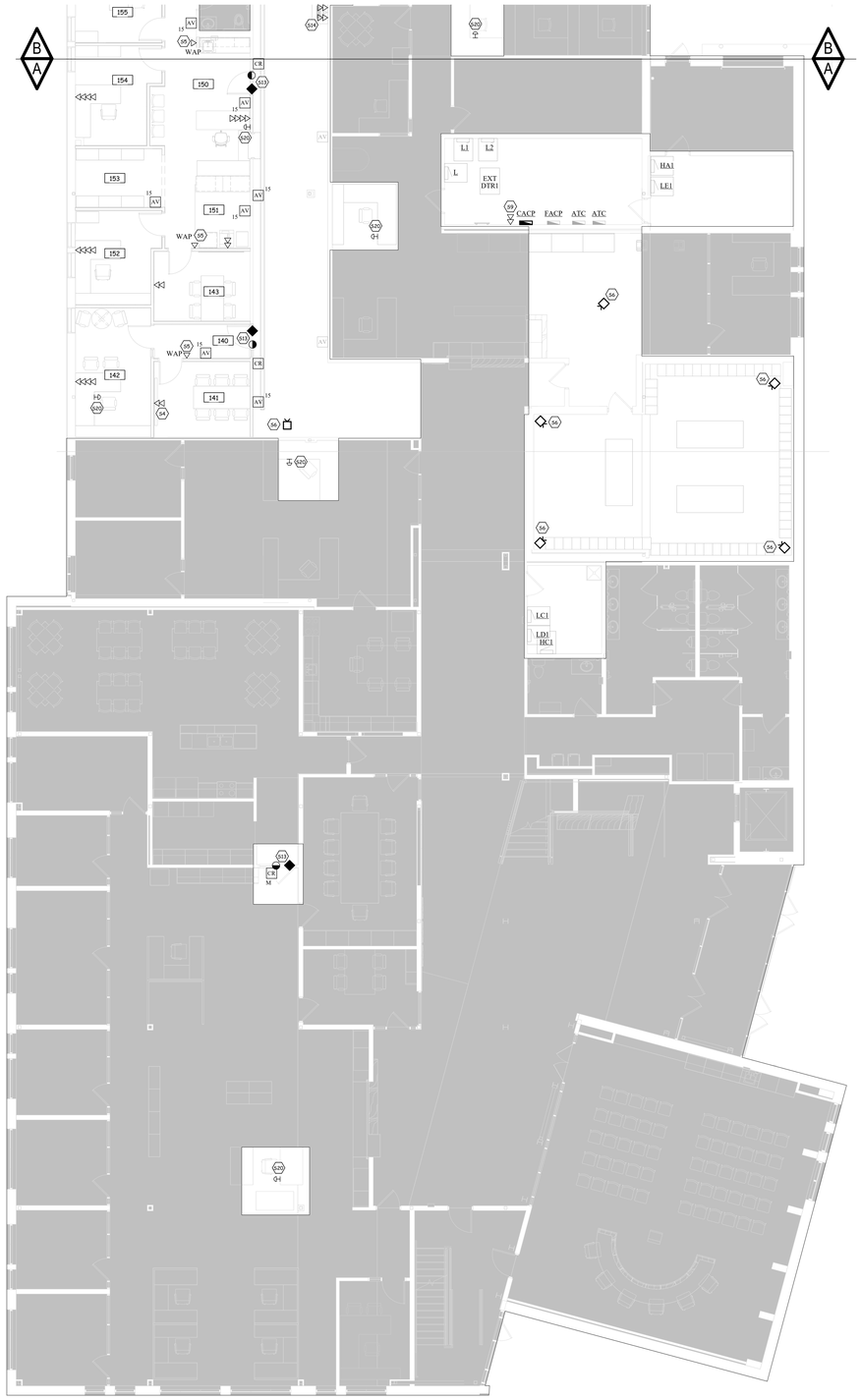
DATE 10/21/2025
PHASE CONSTRUCTION DOCUMENTS
PROJECT PE 25018
SHEET E302
LEVEL 2 POWER PLAN

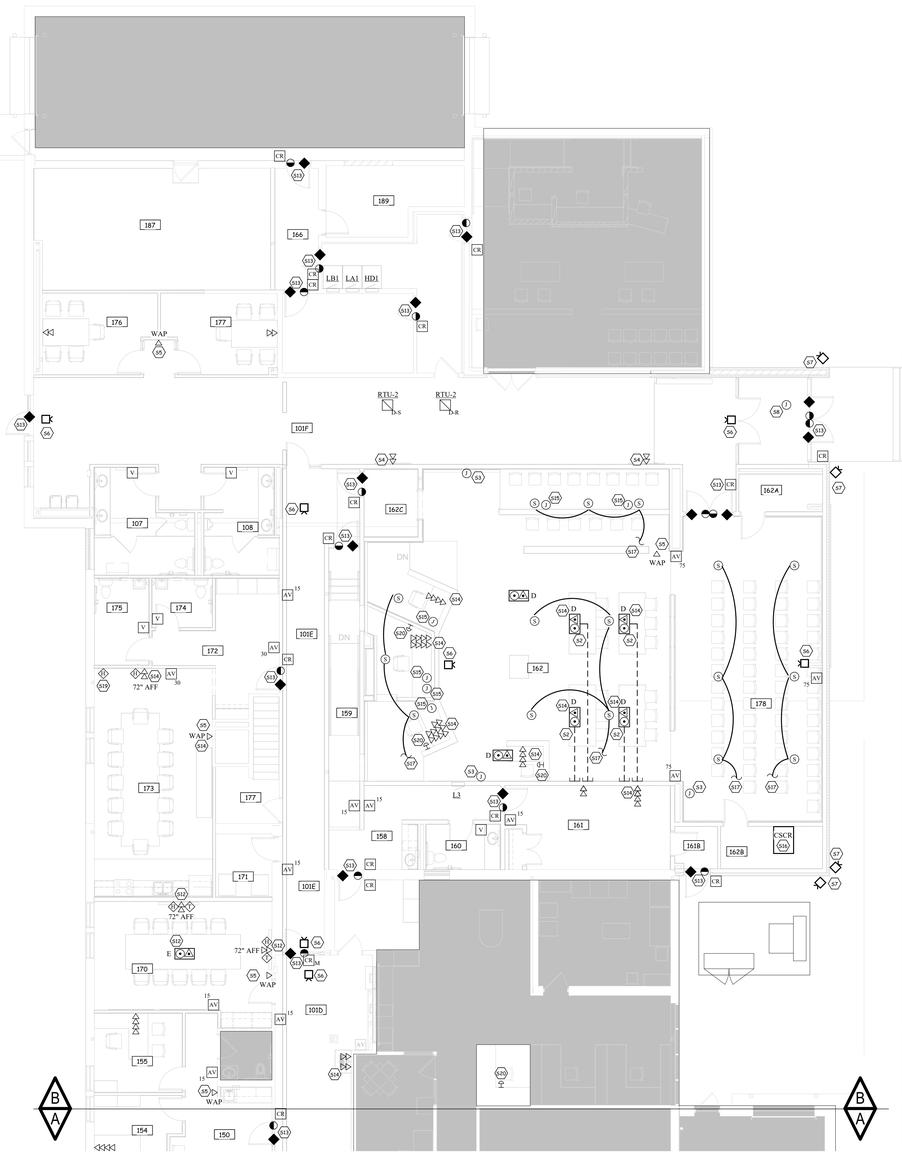
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Room Schedule		
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152	OFFICE	132 SF
153	WORK ROOM/ FILES	89 SF
154	OFFICE	133 SF
155	OFFICE	117 SF
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160	RESTROOM	57 SF
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161B	EXIT	30 SF
162	COURTROOM	1,499 SF
162A	STORAGE	53 SF
162B	A.V. STORAGE	73 SF
162C	JURY EXIT	62 SF
166	HALL	90 SF
170	CONFERENCE	343 SF
171	LAUNDRY	60 SF
172	ENTRY	176 SF
173	JURY ROOM	382 SF
174	RESTROOM	50 SF
175	RESTROOM	80 SF
176	MEETING ROOM	148 SF
177	MEETING ROOM	149 SF
177	BASEMENT STAIR	92 SF
178	GALLERY	761 SF
187	MECH OR STORAGE	482 SF
189	HOLDING ROOM	139 SF

Keynote Legend	
S2	PROVIDE 1-1/2" CONDUIT WITH PULL STRING BACK TO ACCESSIBLE CEILING SPACE FOR USE BY OTHERS.
S3	PROVIDE TWO GANG BOX ON WALL AT 72" ABOVE FINISHED FLOOR WITH 2" CONDUIT WITH PULL STRING BACK TO RM #162B FOR USE BY OTHERS.
S4	PROVIDE WIREMOLD #EFSB2, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE P5.
S5	PROVIDE ONE CAT6A NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE FIFTEEN (15) FOOT OF EXCESS SERVICE LOOP FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S6	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY EC. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S7	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE ONE (1) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY EC. PROVIDE 3/4" CONDUIT BACK TO ACCESSIBLE CEILING SPACE AND THEN PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S8	PROVIDE AND INSTALL RELAYS AS REQUIRED TO INTERFACE ACCESS CONTROL SYSTEM WITH EXTERIOR DOOR HANDICAP OPERATOR. EXIT DOOR PUSHBUTTON RELAY SHALL AUTOMATICALLY TRIGGER ELECTRIFIED STRIKE. ENTRANCE DOOR BUTTON RELAY SHALL DISABLE OPERATOR UNLESS VALID CREDENTIALS ARE PRESENTED AFTER HOURS. DURING NORMAL BUSINESS HOURS ENTRANCE PUSHBUTTON WILL BE ALLOWED TO OPEN DOOR. VERIFY HOURS OF OPERATION WITH OWNER.
S9	NETWORK DROPS FOR CACP.
S12	SEE DETAIL 2/E403
S13	SEE DETAIL 5/E403 FOR CONTROLLED ACCESS ROUGH-IN INSTALLATION. CABLE PROVIDED BY OWNER VENDOR AND INSTALLED BY EC. ROUTE BACK TO CACP LOCATIONS SHOWN FOR FINAL CONNECTIONS BY OWNER VENDOR.
S14	DATA JACK(S) TO BE HARDWIRED INTO THE COURT SYSTEM NETWORK. COORDINATE WITH ND COURTS IT DEPARTMENT OF EXACT NETWORK SWITCH/PORT LOCATION IN EXISTING DTR1.
S15	PROVIDE TWO GANG BOX ON BACKSIDE OF CASEWORK AT 18" ABOVE FINISHED FLOOR WITH 2" CONDUIT WITH PULL STRING BACK TO RM #162B FOR USE BY OTHERS.
S16	COURT SYSTEM CONTROL PANEL AND AUDIO RACK. RACK PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATIONS OF ROUGH-INS WITH ND COURTS VENDOR (FORTE/AVI).
S17	PROVIDE 1" CONDUIT WITH PULL STRING BACK TO RM #162B FOR SPEAKERS. PROVIDE 1" CONDUIT WITH PULL STRING BETWEEN SPEAKERS AS SHOWN. VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS WITH ND COURTS VENDOR (FORTE/AVI).
S19	INSTALL A CABLES 2 GO (C26) #39710 PASS THROUGH HDMI WALL PLATE AT THIS LOCATION COMPARTMENT AND A LEGRAND #WP1014WHV1 CABLE ACCESS WALL PLATE AT THE TV LOCATION. PROVIDE A C26 SELECT SERIES HDMI CABLE #506XX OF APPROPRIATE LENGTH BETWEEN THE TWO PLATES WITH AN ADDITIONAL 5 FEET EXCESS. COIL EXCESS CABLE IN THE ACCESSIBLE CEILING SPACE BETWEEN TV AND WALL BOX.
S20	PROVIDE ROUGH-IN FOR PANIC BUTTONS ON THE UNDERSIDE OF DESK/CABINETRY TO INTERCONNECT TO THE CONTROLLED ACCESS SYSTEM. COORDINATE LOCATION WITH CABINET INSTALLER OR FURNITURE PROVIDER. VERIFY LOCATION(S) WITH OWNER.





1 E401 Systems Plan - First Floor - Area A
1/8" = 1'-0"

2 E401 Systems Plan - First Floor - Area B
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
JASON L. OLMEE
DATE 10/21/25
NORTH DAKOTA

REVISION SCHEDULE

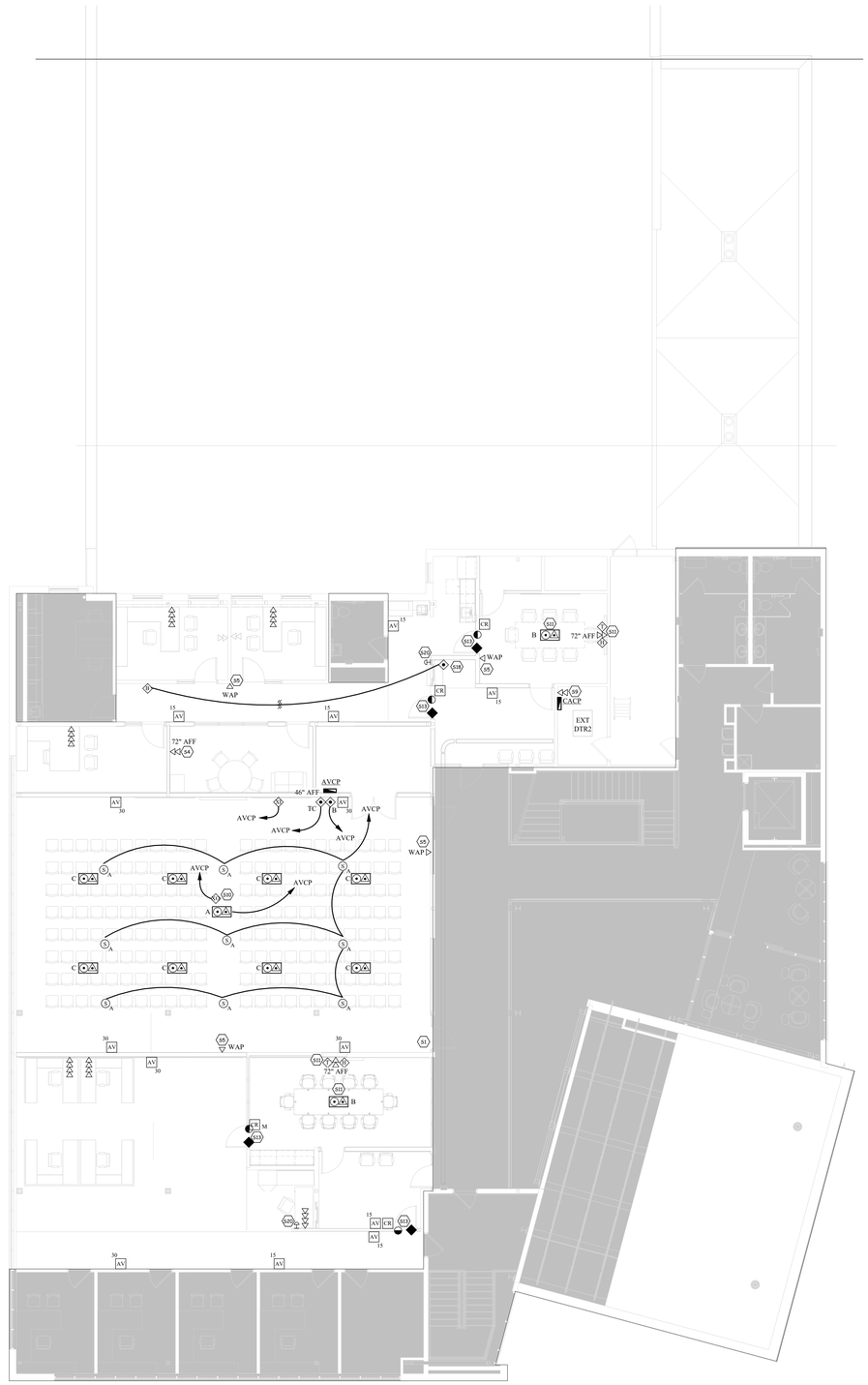
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DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E401
LEVEL 1 SYSTEMS PLAN

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1 E402 Systems Plan - Second Floor - Area A

1/8" = 1'-0"

Keynote Legend	
S1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
S4	PROVIDE WIREMOLD #EFSB2, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE P5.
S5	PROVIDE ONE CAT6A NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE FIFTEEN (15) FOOT OF EXCESS SERVICE LOOP FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S9	NETWORK DROPS FOR CACP.
S10	EC TO PROVIDE 2'X2' SUSPENDED CEILING PROJECTOR PLATE. CHIEF #CMS445. UTILIZE INCLUDED CABLE HANGERS TO SUPPORT PLATE FROM STRUCTURE AS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SINGLE-GANG PANDUIT NETWORK FACEPLATE WITH 'XO' DEVICE AND DUPLEX RECEPTACLE WITH 6' FLEX WHIP TO STRUCTURALLY MOUNTED J-BOX.
S11	SEE DETAIL 1/E403
S13	SEE DETAIL 5/E403 FOR CONTROLLED ACCESS ROUGH-IN INSTALLATION. CABLE PROVIDED BY OWNER VENDOR AND INSTALLED BY EC. ROUTE BACK TO CACP LOCATIONS SHOWN FOR FINAL CONNECTIONS BY OWNER VENDOR.
S18	PROVIDE DOOR BELL AND PUSH BUTTON. ENGRAVE BUTTON 'RING BELL FOR SERVICE'
S20	PROVIDE ROUGH-IN FOR PANIC BUTTONS ON THE UNDERSIDE OF DESK/CABINETRY TO INTERCONNECT TO THE CONTROLLED ACCESS SYSTEM. COORDINATE LOCATION WITH CABINET INSTALLER OR FURNITURE PROVIDER. VERIFY LOCATION(S) WITH OWNER.

Room Schedule

Number	Name	Area
210	LOBBY	148 SF
211	CONFERENCE	316 SF
212	COLLABORATION SPACE	729 SF
213	WORKSTATION	75 SF
218	OFFICE	145 SF
225	HALL	275 SF
230	LARGE MEETING ROOM	1,919 SF
231	TABLE/ CHAIR	137 SF
238	LOBBY	186 SF
239	CONFERENCE	208 SF
240	STORAGE	38 SF
241	HUMAN SERVICES	374 SF
243	OFFICE	127 SF
244	OFFICE	149 SF
245	WORKROOM	196 SF
246	OFFICE	181 SF
247	COMFORT ROOM	171 SF

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REGISTERED PROFESSIONAL ENGINEER
JASON L. OLMVE
DATE 10/21/25
NORTH DAKOTA

REVISION SCHEDULE

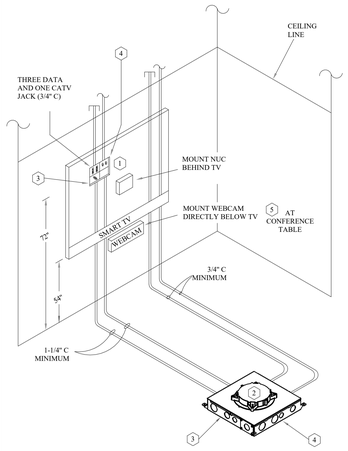
NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E402
LEVEL 2 SYSTEMS PLAN

Prairie Engineering P.C.
Professional Consulting Engineers

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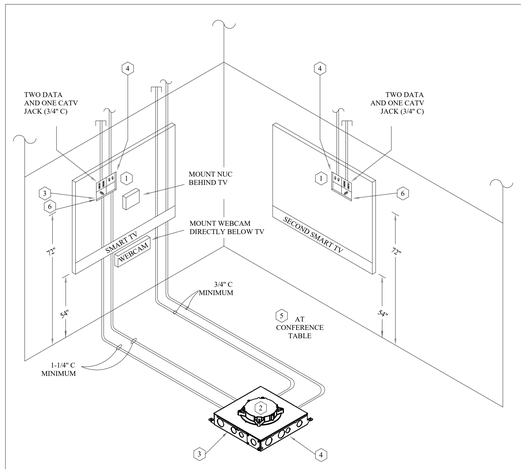
NOTES:

0. SEE SPECIFICATION 274116 FOR EQUIPMENT AND INSTALLATION DETAILS.

1. WIREMOLD #EFSB4, OR EQUIVALENT, FOUR COMPARTMENT RECESSED WALL BOX. COVER SHALL BE PAINTED TO MATCH WALL COLOR.
   - UPPER RIGHT COMPARTMENT SHALL HAVE DUPLEX RECEPTACLE.
   - UPPER LEFT COMPARTMENT SHALL HAVE THREE DATA AND ONE CATV JACK. 3/4" STUB UP TO ACCESSIBLE CEILING REQUIRED.
   - LOWER LEFT COMPARTMENT SHALL BE HDMI CONNECTION AS PER KEYNOTE 3.
   - LOWER RIGHT COMPARTMENT SHALL BE FOR FUTURE WITH LEGRAND #WP1014WHV1 OR EQUIVALENT WALL PLATE .
2. FLOORBOX WITH COVER ASSEMBLY AS PER SPECIFICATION SECTION 260540.
   - PROVIDE DUPLEX RECEPTACLE IN ONE COMPARTMENT.
   - PROVIDE ONE PANDUIT #CF1064 MINI-COM 106 DUPLEX MODULE FRAME WHICH ACCEPTS UP TO FOUR MINI-COM MODULES. INSTALL TWO DATA JACKS. PROVIDE BLANK INSERTS AS NEEDED BY VOICE/DATA COUNT.
   - UTILIZE DECORA BRACKET FOR THE HDMI CONNECTION (KEYNOTE 3).
   - PROVIDE DECORA BRACKET WITH PULL STRING FOR FUTURE.
3. INSTALL A CABLES 2 GO (C2G) #39710 PASS THROUGH HDMI WALL PLATE IN THE FLOORBOX COMPARTMENT AND A LEGRAND #WP1014WHV1 OR EQUIVALENT CABLE ACCESS WALL PLATE IN THE WALL BOX. PROVIDE A C2G #506XX OF APPROPRIATE LENGTH BETWEEN THE FLOORBOX AND THE GATEWAY.
4. DUPLEX RECEPTACLE SHALL INCLUDE INTEGRAL USB POWER OUTLETS. P&S #TR5362USB OR EQUIVALENT.
5. PROVIDE ONE ALTINEX #TNP120C TABLETOP INTERCONNECT BOX WITH OPEN PLATE FOR THE TOUCHSCREEN CONTROLLER CABLE, ONE BLUE CAT6 JACK (DATA), AND ONE DUPLEX RECEPTACLE. COORDINATE WITH G.C. AND OWNER TO INSTALL BOX INTO OWNER'S TABLE (FIELD VERIFY LOCATION). INTERCONNECT BOX COMES WITH FACTORY INSTALLED 6FT CABLE LEADS TO CONNECT TO THE FLOOR BOX OR LINK BOX. MOUNT LINK BOX ON THE UNDERSID EOF THE TABLE AND CALBE THE HDMI AND POWER TO THE FLOOR BOX AS REQUIRED.

1 E403 MICROSOFT TEAMS ROOM

1/8" = 1'-0"



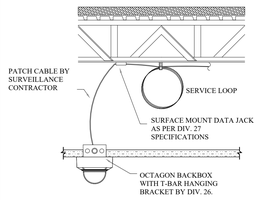
NOTES:

0. SEE SPECIFICATION 274116 FOR EQUIPMENT AND INSTALLATION DETAILS.

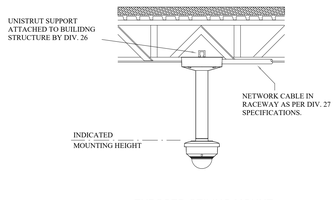
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   - UPPER LEFT COMPARTMENT SHALL HAVE THREE DATA AND ONE CATV JACK. 3/4" STUB UP TO ACCESSIBLE CEILING REQUIRED.
   - LOWER LEFT COMPARTMENT SHALL BE HDMI CONNECTION AS PER KEYNOTE 3.
   - LOWER RIGHT COMPARTMENT SHALL BE FOR FUTURE WITH LEGRAND #WP1014WHV1 OR EQUIVALENT WALL PLATE .
2. FLOORBOX WITH COVER ASSEMBLY AS PER SPECIFICATION SECTION 260540.
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4. DUPLEX RECEPTACLE SHALL INCLUDE INTEGRAL USB POWER OUTLETS. P&S #TR5362USB OR EQUIVALENT.
5. PROVIDE ONE ALTINEX #TNP120C TABLETOP INTERCONNECT BOX WITH OPEN PLATE FOR THE TOUCHSCREEN CONTROLLER CABLE, ONE BLUE CAT6 JACK (DATA), AND ONE DUPLEX RECEPTACLE. COORDINATE WITH G.C. AND OWNER TO INSTALL BOX INTO OWNER'S TABLE (FIELD VERIFY LOCATION). INTERCONNECT BOX COMES WITH FACTORY INSTALLED 6FT CABLE LEADS TO CONNECT TO THE FLOOR BOX OR LINK BOX. MOUNT LINK BOX ON THE UNDERSID EOF THE TABLE AND CALBE THE HDMI AND POWER TO THE FLOOR BOX AS REQUIRED.
6. INSTALL A LEGRAND #WP1014WHV1 OR EQUIVALENT CABLE ACCESS WALL PLATE IN THE WALL BOX IN EACH WALL BOX. PROVIDE A C2G SELECT SERIES HDMI CABLE #506XX OF APPROPRIATE LENGTH BETWEEN THE SECOND DISPLAY LOCATION AND THE NUC.

2 E403 MICROSOFT TEAMS ROOM (TWO DISPLAYS)

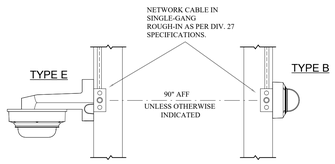
1/8" = 1'-0"



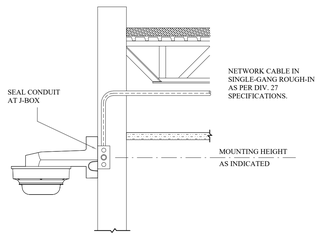
ACCESSIBLE CEILING MOUNT



EXPOSED CEILING MOUNT



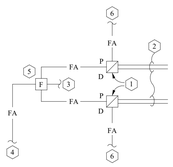
INTERIOR WALL MOUNT



EXTERIOR WALL MOUNT

3 E403 SURVEILLANCE CAMERA INSTALLATION

1/8" = 1'-0"



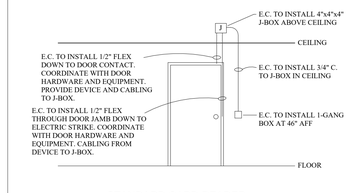
1. FOLLOW MANUFACTURER'S RECOMMENDATIONS AND NFPA 90A 6.4.2 AND IMC 606.2 IN LOCATING DUCT DETECTORS:
   - A) "DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING CAPACITY GREATER THAN 2000CFM (944 L/S)."
   - B) "IN RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS AND EXHAUST AIR CONNECTIONS IN AIR RETURN SYSTEMS HAVING CAPACITY GREATER THAN 2000 CFM (944 L/S)." (IMC 606.2)
   - C) "AT EACH STORY PRIOR TO THE CONNECTION TO A COMMON RETURN AND PRIOR TO ANY RECIRCULATION OR FRESH AIR INLET CONNECTION IN AIR RETURN SYSTEMS HAVING A CAPACITY GREATER THAN 15,000 CFM (7080 L/S) AND SERVING MORE THAN ONE STORY." (NFPA 90A 6.4.2 AND IMC 606.2)

   NOTE: PROVIDE QUANTITY AS REQUIRED BY DUCT GEOMETRY.
2. SMOKE SAMPLING TUBES TO SPAN ENTIRE DUCT.
3. TO STARTING EQUIPMENT AT AHU.
4. TO FIRE ALARM CONTROL PANEL. SEPERATE ZONE REQUIRED FOR EACH MOTOR.
5. MOUNT REMOTE FAN SHUTDOWN RELAYS NEAR CONTROLLER OR EQUIPMENT.
6. TO REMOTE ALARM INDICATOR/TEST STATION. LOCATE IN FINISHED CEILING IMMEDIATELY BELOW UNIT, OR ON VISIBLE WALL IN ASSOCIATED FAN ROOM.

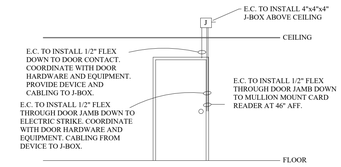
   NOTE: STATION NOT REQUIRED FOR ADDRESSABLE-TYPE DETECTORS.
7. IDENTIFY NOTE 1 AND NOTE 6 EQUIPMENT AS PER FOLLOWING EXAMPLE: AHU-1 SUPPLY, FACP ZONE 2. PROVIDE BLACK LAMINATED NAMEPLATE WITH WHITE LETTERS.

4 E403 DUCT DETECTION INSTALLATION

1/8" = 1'-0"



STANDARD CARD READER



MULLION MOUNT CARD READER

NOTES:

1. DOOR CONTACT PROVIDED BY E.C. ELECTRIC STRIKE, LATCH OR MULLION PROVIDED BY OTHERS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT AND BOXES AS INDICATED.

5 E403 CONTROLLED ACCESS ROUGH-INS

1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — JASON L. CLAYE — 8879 — DATE 10/21/25 — NORTH DAKOTA

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET
E403
SYSTEMS DETAILS

Prairie Engineering P.C.
Professional Consulting Engineers

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