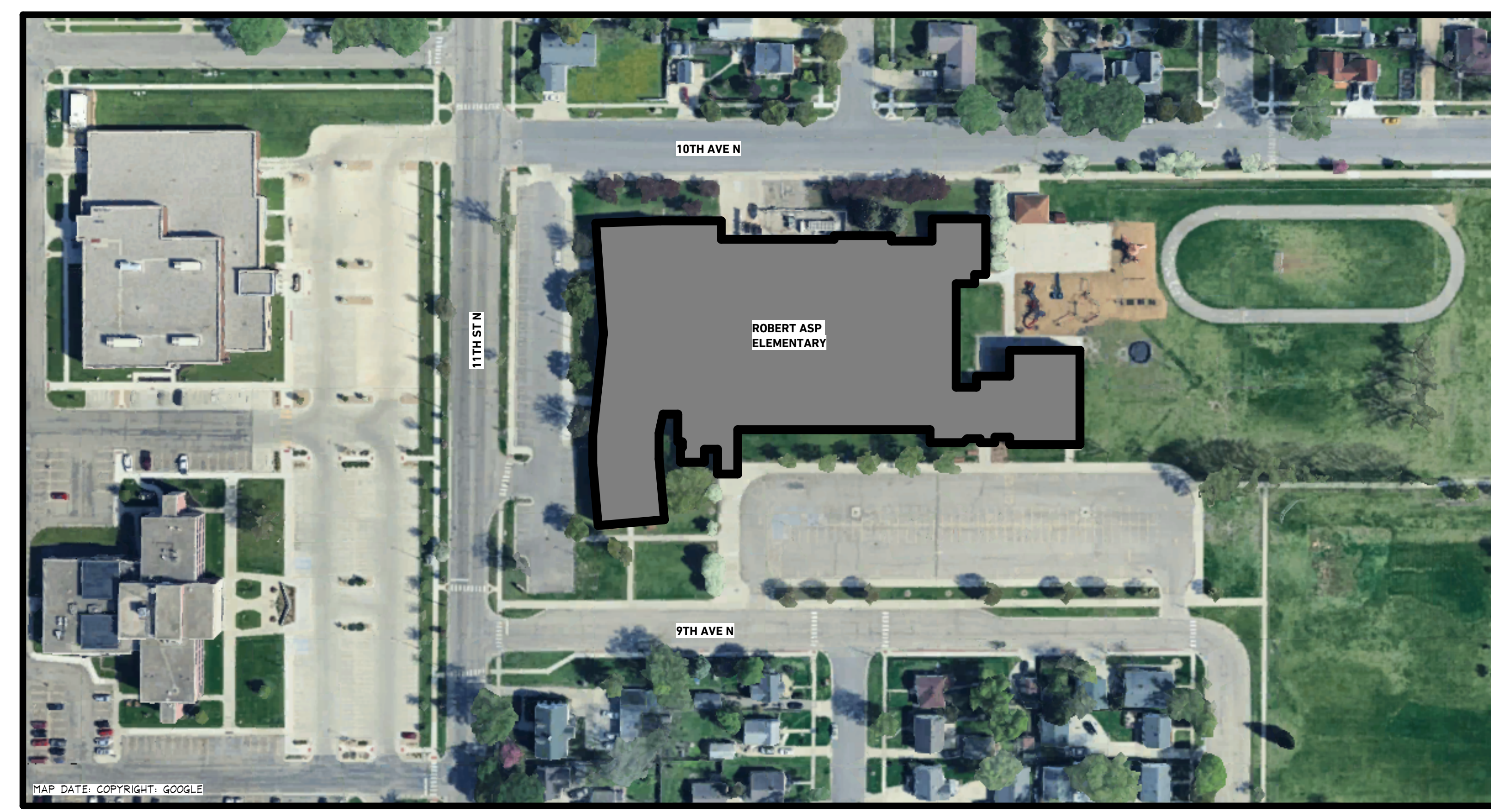




Robert Asp Structural Reinforcement



INDEX OF DRAWINGS

GENERAL	ARCHITECTURAL	STRUCTURAL
GO.01 COVER SHEET	A2.11 MAIN LEVEL DEMO AND NEW RCP	S001 GENERAL NOTES S202 ROOF FRAMING PLAN S401 FRAMING DETAILS

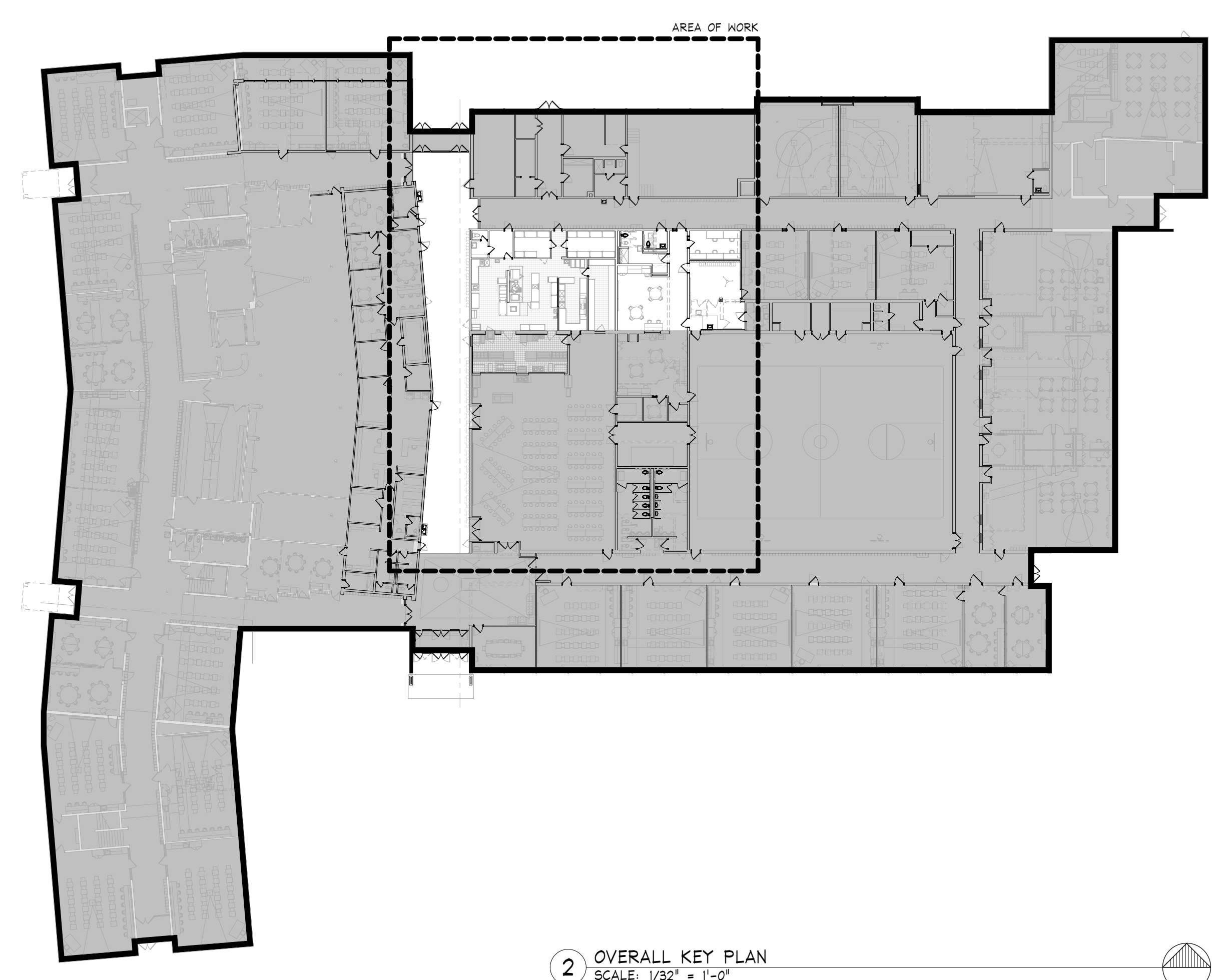


ROBERT ASP STRUCTURAL REINFORCEMENT
MOORHEAD, MN
ZBA Project No: 25-041
Subject: Building Code Review for the Robert Asp Elementary School Structural Reinforcement
Date: January 29, 2026
Governing Code: 2020 Minnesota Building Code (MBC)
All tables and sections cited below are from this code, unless otherwise noted.

- Applicable Codes Include:
- 2020 Minnesota Building Code (MBC)
 - 2020 Minnesota Energy Code
 - 2020 Minnesota Conservation Code for Existing Building
 - 2020 Minnesota Plumbing Code

A Project Description:
Structural Reinforcement
The proposed structural reinforcement project is for an existing elementary school. The building's primary structural system consists of steel bar joist bearing on masonry walls. Over time the roof structure has weakened and must be reinforced for the roof to function properly. The scope of this project will be to remove the existing ceiling to access the required areas determined by our structural engineer. After the reinforcement is complete the ceiling will be put back together to match the existing condition.

- Area impacted by project: 4,813 SF
- B Types of Construction:**
Type I-V (Section 402.2 and Table 401)
• There shall be no changes to building elements listed in Table 401
• Combustible materials in Types II Construction, (Section 403)
• Per Section 403.1 Exception 1.3
- C Occupancy Classification (Chapter 3)**
• Group E (Section 302.3) - Building or structure used for educational purposes kindergarten through 4th grade.
- D Fire Protection and Life Safety Systems (Chapter 9)**
• The building is currently sprinklered



2 OVERALL KEY PLAN
SCALE: 1/32" = 1'-0"

BID PACKAGES

5B	STRUCTURAL STEEL MATERIAL AND ERECTION
6A	GENERAL WORK AND LABOR
9B	DRYWALL
9E	ACT CEILING
9I	PAINTING
21	BUILDING SPRINKLER
23	PLUMBING AND HVAC COMBINED
26	ELECTRICAL SYSTEMS

REVISION SCHEDULE

NUMBER	DESCRIPTION	DATE
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Date: 1/30/2026 Registration No. 57169
Tony Wolf

Date: 1/30/2026 Project No.: 25-041

STRUCTURAL ENGINEER:

Heyer Engineering
1020 36th St. S.
Fargo, ND 58103
P: 701-280-0949



CONSTRUCTION MANAGER:

Gehrtz Construction Services
510 4th Ave N
Fargo, ND 58102
P: 701-297-0704



ARCHITECT:

Zerr Berg Architects
510 4th Ave N
Fargo, ND 58102
P: 701-280-0187
F: 701-280-9021



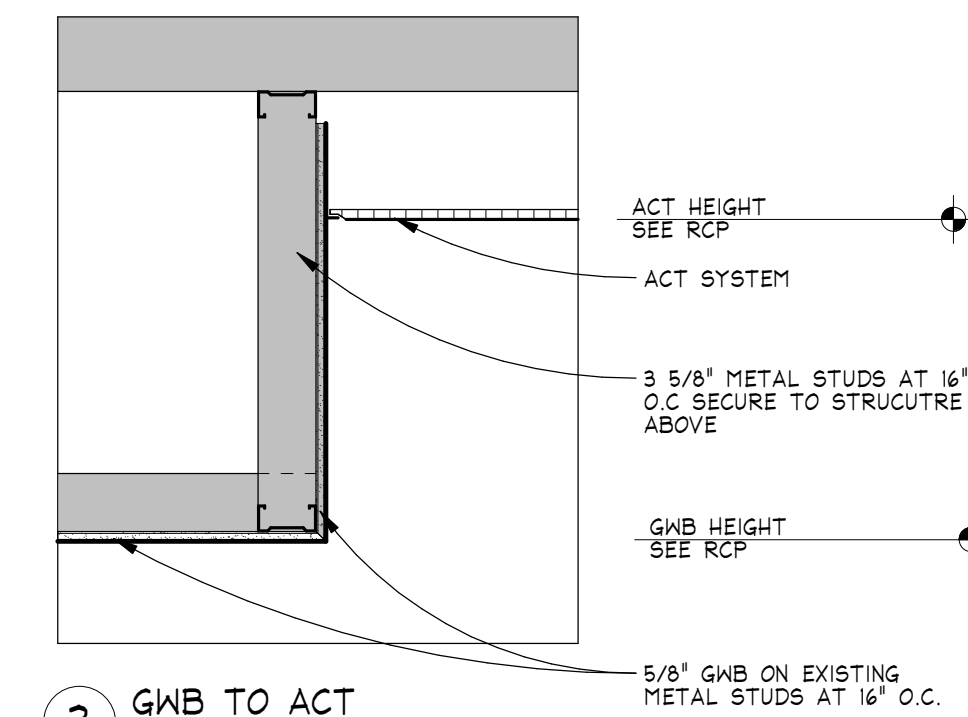
DEMO KEYNOTES

- DB.1 REMOVE ACT CEILING GRID. DEMO LIGHT FIXTURES AND SALVAGE ALL OTHER ELECTRICAL AND MECHANICAL DEVICES TO REINSTALL.
- DB.2 REMOVE PLASTER CEILING AND STUD FRAMING SYSTEM. DEMO LIGHT FIXTURES AND SALVAGE OTHER ELECTRICAL DEVICES TO REINSTALL.
- DB.3 CONTRACTOR SHALL REMOVE MECH GRILLES CLEAN AND REINSTALL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CAN LIGHTS IN THIS ROOM.
- DB.5 CONTRACTORS SHALL PROTECT ALL WALLS FROM DAMAGE DURING REMOVAL OF PLASTER LID.
- DB.6 REMOVE BOTTOM LAYER OF GNB FROM SOFFIT. TAKE CARE TO PREVENT DAMAGE TO STUDS AND VERTICAL GNB ON SOFFIT.
- DB.1 SEAL DOORWAY DURING DEMOLITION AND CONSTRUCTION.
- DB.2 CONTRACTOR TO PROVIDE DUST PARTITION SEPARATING EXISTING TO NEW.
- DB.3 REMOVE EXISTING SPRINKLER LINE

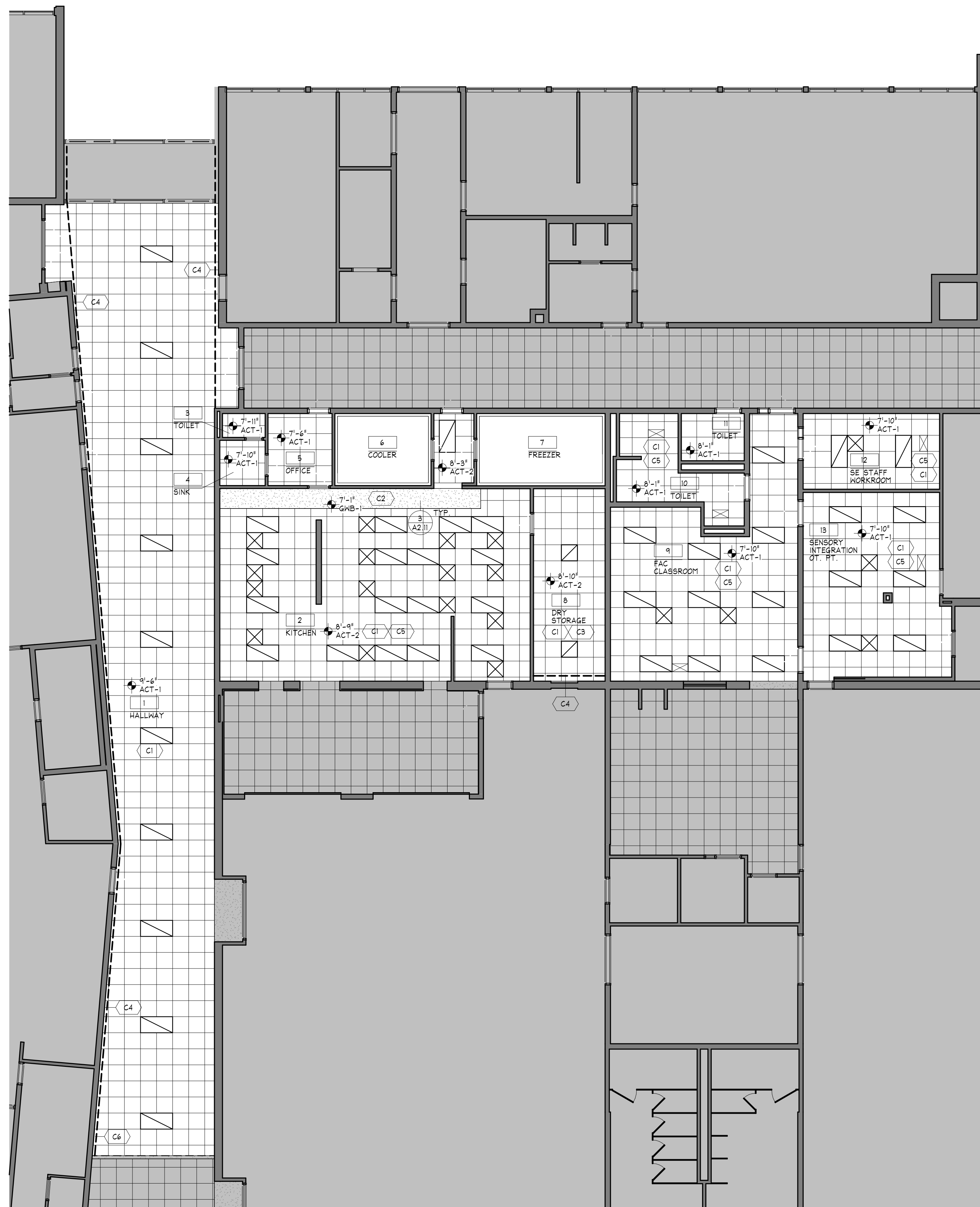
RCP KEYNOTES

- CI LIGHT FIXTURES SHALL BE LITHONIA LIGHTING COPY LED PANEL LIGHT, 2'X2' OR 2'X4' - OR APPROVED EQUAL. PROVIDE TUNABLE EQUIVALENT AT ROOMS # 4 & 13.
- C2 PROVIDE NEW GNB AT BOTTOM SIDE OF SOFFIT. PAINT ENTIRE SOFFIT TO MATCH EXISTING PAINT COLOR.
- C3 VERIFY INSTALL OF CEILING IS BELOW HEAT PIPING.
- C4 REWORK EXISTING SPRINKLER HEADS IN NEW ACT CEILING.
- C5 CLEAN AND REINSTALL EXISTING MECHANICAL DIFFUSERS.
- C6 REROUTE SPRINKLER PIPE ABOVE THE ACT CEILING ONLY WITHIN THE WORK AREA.

- RCP GENERAL NOTES**
1. INTERIOR CEILING PLAN DIMENSIONS ARE TO FACE OF WALL.
 2. CEILING ELEVATIONS ARE RELATIVE TO FLOOR BELOW.
 3. CENTER SUSPENDED ACT. GNB ROFFETS AND BETWEEN CEILING MOUNTED FIXTURES, SPEAKERS, SMOKE DETECTORS, MAP UNITS, ETC. CAN BE LOCATED AT 1/4 POINTS ON ACT PANELS.
 4. ALIGN FIXTURES / EQUIPMENT AS SHOWN ON DRAWINGS, ALSO INDICATED BY CENTERLINES.
 5. COORDINATE POSITIONS OF ALL LIGHT FIXTURES, ACCESS PANELS, GRILLES, DIFFUSERS AND REGISTERS TO ELIMINATE CONFLICT.
 6. COORDINATE LIGHTING LAYOUTS IN ALL SPACES WITH OVERHEAD PIPING, DUCTS, AND OTHER SUSPENDED EQUIPMENT.
 7. ELECTRICAL & MECHANICAL CONTRACTORS SHALL COORDINATE & REFERENCE ARCHITECTURAL DRAWINGS FOR THE PLACEMENT OF DEVICES WITHIN CEILING WHEN SUBMITTING PRIOR TO SUBMITTING DRAWINGS FOR PERMIT.
 8. ALL SPRINKLER HEADS OCCURRING IN CEILING TILES SHALL BE LOCATED IN THE CENTER OF TILE. CONTRACTOR SHALL SUBMIT HEAD LOCATIONS TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
 9. ALL NEW CEILING SHALL MATCH THE EXISTING CEILING HEIGHTS.
- DEMO GENERAL NOTES**
1. CONTRACTORS ARE TO PROTECT ALL WALLS FROM DAMAGE DURING REMOVAL OF PLASTER LID.
 2. CONTRACTORS TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS BOTH BUILDING INTERIOR, EXTERIOR, AND SITE.
 3. CONTRACTORS SHALL PROTECT AND AVOID DAMAGE TO EXISTING MATERIALS AND FINISHES. ANY CONSEQUENTIAL DAMAGE SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.
 4. ALL DEMOLITION WASTE TO BE REMOVED AND DISPOSED OF BY CONTRACTORS.
 5. OWNER RESERVES FIRST SALVAGE RIGHTS TO ALL ITEMS SCHEDULED FOR DEMOLITION.
 6. ALL DEMOLITION TO BE EXECUTED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.



3 GNB TO ACT
SCALE: 1/8" = 1'-0"



2 01 MAIN LEVEL RCP - PART PLANS
SCALE: 1/8" = 1'-0"



1 01 MAIN LEVEL RCP - DEMO PLAN
SCALE: 1/8" = 1'-0"

REVISION SCHEDULE

NUMBER	DESCRIPTION	DATE

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Print Name: Todd Hoff
Signature: [Signature]
Date: 1/30/2026 Registration No. 57169



Robert Asp Structural Reinforcement

MAIN LEVEL DEMO AND NEW RCP

Project No.: 25-041
Date: 1/30/2026 **A2.11**

GENERAL CONSTRUCTION NOTES:

- THE INTENT OF THESE PLANS AND NOTES IS TO PRESENT THE PROJECT REQUIREMENTS FOR THE ROBERT ASP ELEMENTARY SCHOOL RE-ROOF PROJECT IN MOORHEAD, MN.
- 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.
- 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.
- 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.
- ALL WORK SHALL COMPLY WITH THE 2019 INTERNATIONAL BUILDING CODE, AS APPROVED BY THE STATE OF MINNESOTA/CITY OF MOORHEAD.
- REFERENCE STANDARDS, UNLESS OTHERWISE NOTED, ALL STANDARDS SHALL BE CURRENT EDITION, WITH LATEST APPENDIX, IF APPLICABLE.
- 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.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS, METHODS, TIMING, 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 THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF DEMOLITION, CONSTRUCTION, AND INSTALLATION.
- NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
- SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR ALL OPENINGS AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- VERIFY SIZE, NUMBER, AND LOCATION OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. IF EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT CONCLUDE WITH EQUIPMENT SHOWN ON PLANS, COORDINATE ADJUSTMENTS WITH THE STRUCTURAL ENGINEER.
- HOLES, PIPES, SLEEVES, ETC NOT SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.
- 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.
- FABRICATOR SHALL CLEARLY NOTE CHANGES MADE IN THE SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS. REVIEWED APPROVAL SHOP DRAWINGS SHOWING ENGINEER'S COMMENTS ACCOMPANIED WITH RECORD SET SHOP DRAWINGS, SHALL BE AVAILABLE FOR REFERENCE AT THE CONSTRUCTION SITE.
- DESIGN LOADS:

ROOF LIVE LOADS:

FLAT ROOF SNOW	$S_f = 39 \text{ psf}$
EXPOSURE FACTOR	$C_e = 1.0$
IMPORTANCE FACTOR	$I = 1.1$
THERMAL FACTOR	$C_t = 1.0$
GROUND SNOW LOAD	$S_g = 50 \text{ psf}$
DRIFT SURCHARGE LOAD	$P = 108 \text{ psf}$
DRIFT WIDTH	$X = 21 \text{ ft}$

DEAD LOADS:

TYPICAL ROOF	$= 16 \text{ psf}$
--------------	--------------------

LATERAL LOADS (WIND-MINNESOTA):

ULTIMATE DESIGN WIND SPEED (3 SEC. GUST)	$V_{ult} = 119 \text{ mph}$
NOMINAL DESIGN WIND SPEED	$V_{nom} = 92 \text{ mph}$
WIND EXPOSURE	$= 'B'$
INTERNAL PRESSURE COEFFICIENT	$= +/- 0.18$
RISK CATEGORY	$= III$
COMPONENTS & CLADDING (VELOCITY PRESSURE)	$q_p = 12.2 \text{ psf}$

SPECIAL INSPECTIONS:

- 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.
- THE FOLLOWING TABLE INCLUDES ITEMS REQUIRING SPECIAL INSPECTION PROVIDED BY THE OWNER. 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 110.03C.

REQUIRED SPECIAL INSPECTION			
DESCRIPTION OF WORK	TESTING REQUIRED	INSPECTION FREQUENCY	REMARKS
GRADING, EXCAVATION, & FILLING	YES	PERIODIC (CONT DURING FILL)	SEE IBC TABLE 1705.6
STRUCTURAL STEEL WELDING	YES	PERIODIC (10% OF ALL WELDS)	SEE AISCS360 TABLE N5.4.1 THRU 3
OPEN-WEB STEEL JOIST	NO	PERIODIC	SEE IBC TABLE 1705.2.3 ITEM NO 18, 1b.1, 1b.2

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL WORK SHALL CONFORM TO AISI 360 & AISI 341 WITH THE FOLLOWING ASTM MATERIAL SPECIFICATIONS:

A992	I, AND WT SHAPES	F _y = 50 ksi
A500	GRADE C - HSS PIPES	F _y = 46 ksi
A500	GRADE C - HSS TUBES	F _y = 50 ksi
A36	M, S, C, MC, & L (ANGLES) SHAPES	F _y = 36 ksi
F1554	PLATES, BARS & THREADED RODS	F _y = 56 ksi
	GRADE 55 - ANCHOR RODS	F _y = 55 ksi (WELDABLE)
	GRADE 105 - ANCHOR RODS	F _y = 105 ksi
F9125	GRADE A325 (GROUP A) - BOLTS	F _y = 120 ksi
	GRADE A490 (GROUP B) - BOLTS	F _y = 150 ksi
A563	CONNECTION NUTS	
F436	WASHERS	
A109	TYPE B - HEADED STUD ANCHORS	F _y = 65 ksi
E70XX	ELECTRODES	F _{exx} = 70 ksi
- WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF:
 - AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 - AWS - AMERICAN WELDING SOCIETY
- WELDS NOT SPECIFIED SHALL BE A FILLET WELD, CONTINUOUS AND/OR ALL AROUND WITH MINIMUM THROAT DIMENSION AS REQUIRED FOR MATERIAL THICKNESS PER AWS.
- STRUCTURAL FABRICATORS SHALL SHOW ALL FIELD WELDING REQUIREMENTS ON SHOP DRAWINGS SUBMITTED TO THE ENGINEER.
- DO NOT PAINT STEEL SURFACES TO BE FIELD WELDED.
- STEEL JOISTS TO BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.

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	BRACING
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 SCREEN ANCHOR
DBL	DOUBLE
DET	DETAIL
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DT	DRAIN TILE
DWN	DOWN
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EQAL	EQUAL
EM	EACH WAY
(E)	EXISTING
EXC	EXCAVATION
EXP	EXPANSION
FD	FLOOR DRAIN
FDN	FOUNDATION
FS	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
KSJ	KIPS PER SQUARE INCH
L	ANGLE
LL	LIVE LOAD
LB	LEDGER BEAM
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MO	MASONRY OPENING
N	NORTH
NTS	NOT TO SCALE
NS	NON-SHRIEK
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHEAD
OPNG	OPENING
ORIG	ORIGINAL
PA	POWDER ACTUATED FASTENER
PART	PARTITION
PC	PRECAST CONCRETE
PLF	POUND PER LINEAR FOOT
PL	PLATE
PND	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RAD	RADIUS
RD	ROOF DRAIN
REIN	REINFORCING
REM	REMOVE
REQD	REQUIRED
RFG	ROOFING
RO	ROOF OPENING
SA	SCREEN ANCHOR
SB	SOIL BORING
SCHED	SCHEDULE
SD	SEE DETAIL
SDL	SUPERIMPOSED DEAD LOAD
SLL	SUPERIMPOSED LIVE LOAD
SEER/SEOR	STRUCTURAL ENGINEER OF RECORD
SHT	SHEET
SM	SMILAR
SQ	SQUARE
SJ	STEEL JOIST
SL	SNOW LOAD
SFA	SPACE/SPPACING
SFC	SPECIAL
SPEGS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
TEMP	TEMPORARY
TBB	TOP & BOTTOM
T&G	TONGUE & GROOVE
THK	THICK/THICKENED
TOP	TOP OF
TRANS	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
VER/(V)	VERIFY
VERT	VERTICAL
WF	WIDE FLANGE
WOD	WOOD
WL	WIND LOAD
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WVF	WELDED WIRE FABRIC
@	AT
-/-	PLUS OR MINUS



REVISION SCHEDULE		
NUMBER	DESCRIPTION	DATE

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

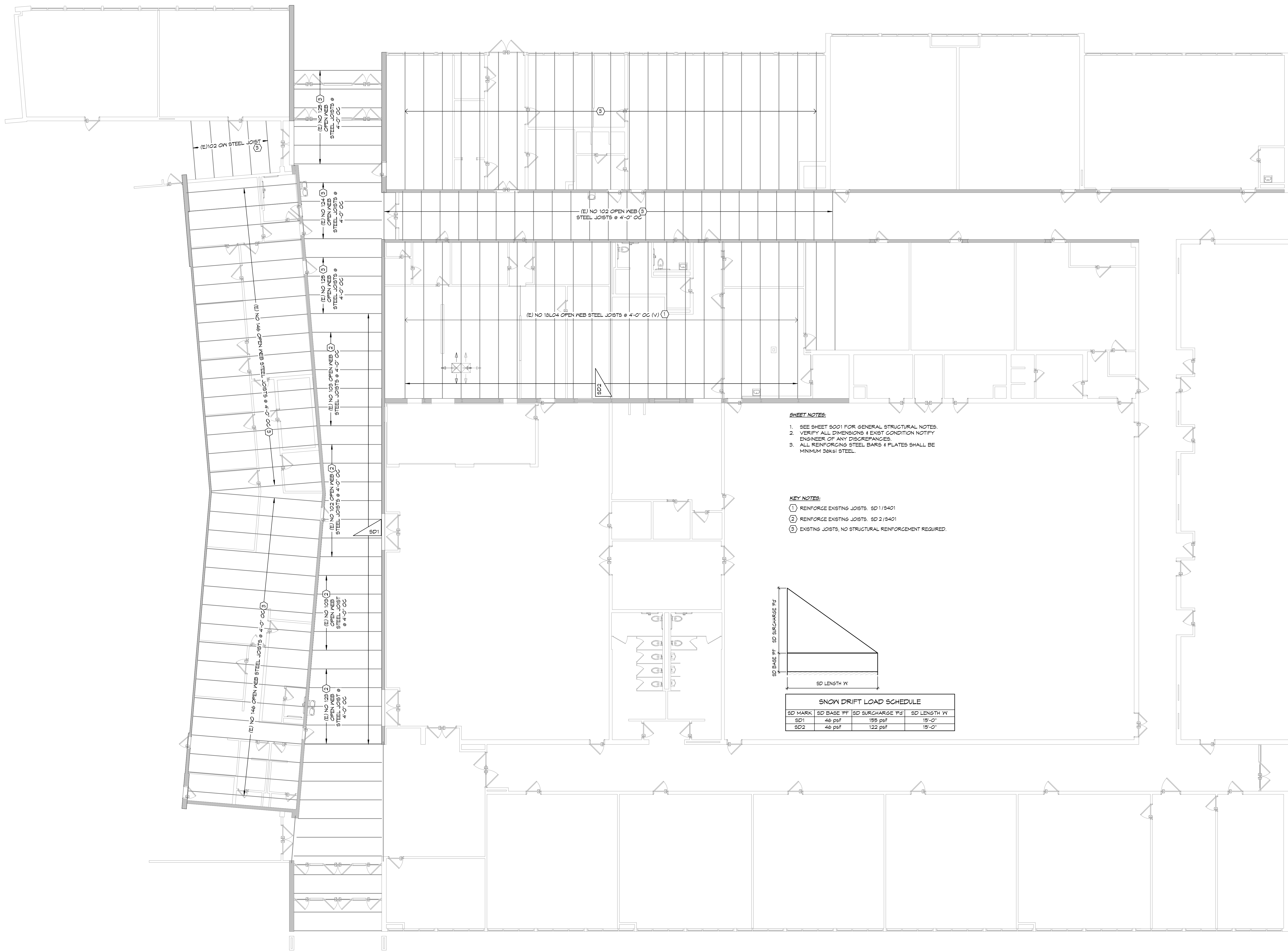
Print Name: Eric A. Gault
 Signature: [Signature]
 Date: 01/23/26 Registration No. 41855

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**ROBERT ASP
ELEMENTARY SCHOOL
RE ROOF**
MOORHEAD, MN

GENERAL NOTES

Project No.: 25-041
 Date: 01/23/26 **S001**

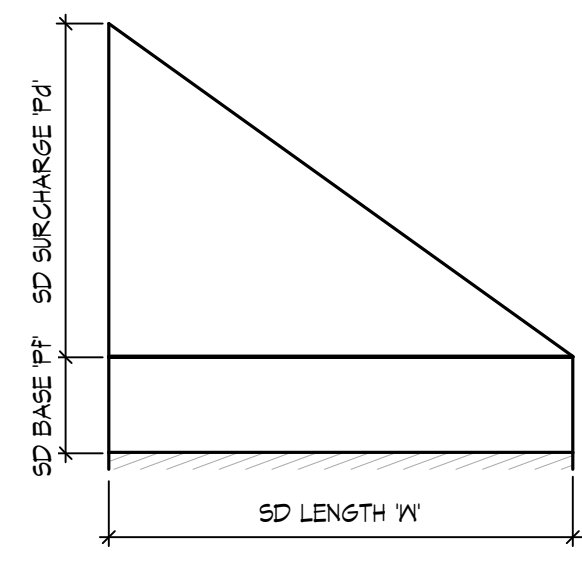


SHEET NOTES:

- SEE SHEET 5001 FOR GENERAL STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS & EXIST. CONDITION NOTIFY ENGINEER OF ANY DISCREPANCIES.
- ALL REINFORCING STEEL BARS & PLATES SHALL BE MINIMUM 56KSI STEEL.

KEY NOTES:

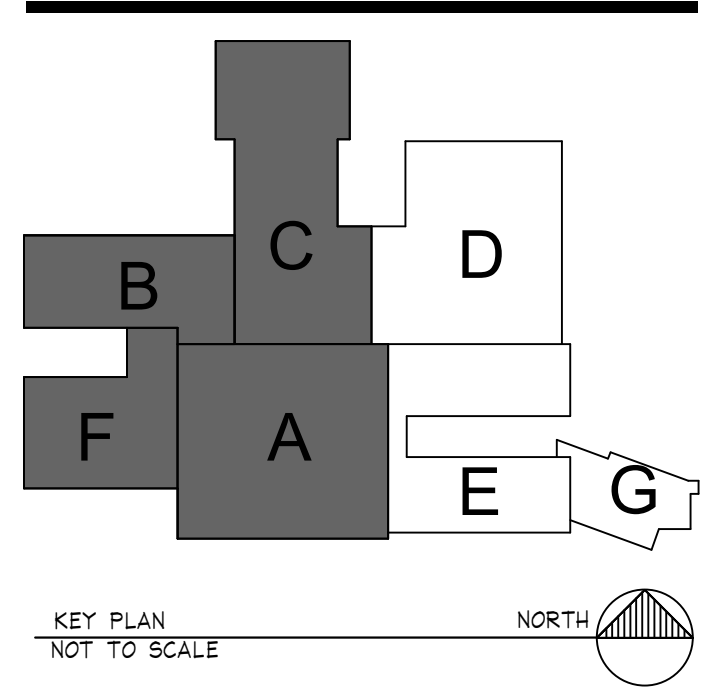
- REINFORCE EXISTING JOISTS. SD 1/5401
- REINFORCE EXISTING JOISTS. SD 2/5401
- EXISTING JOISTS, NO STRUCTURAL REINFORCEMENT REQUIRED.



SNOW DRIFT LOAD SCHEDULE

SD MARK	SD BASE P/d	SD SURCHARGE P/d	SD LENGTH W
SD1	46 psf	158 psf	15'-0"
SD2	46 psf	122 psf	15'-0"

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



REVISION SCHEDULE

NUMBER	DESCRIPTION	DATE

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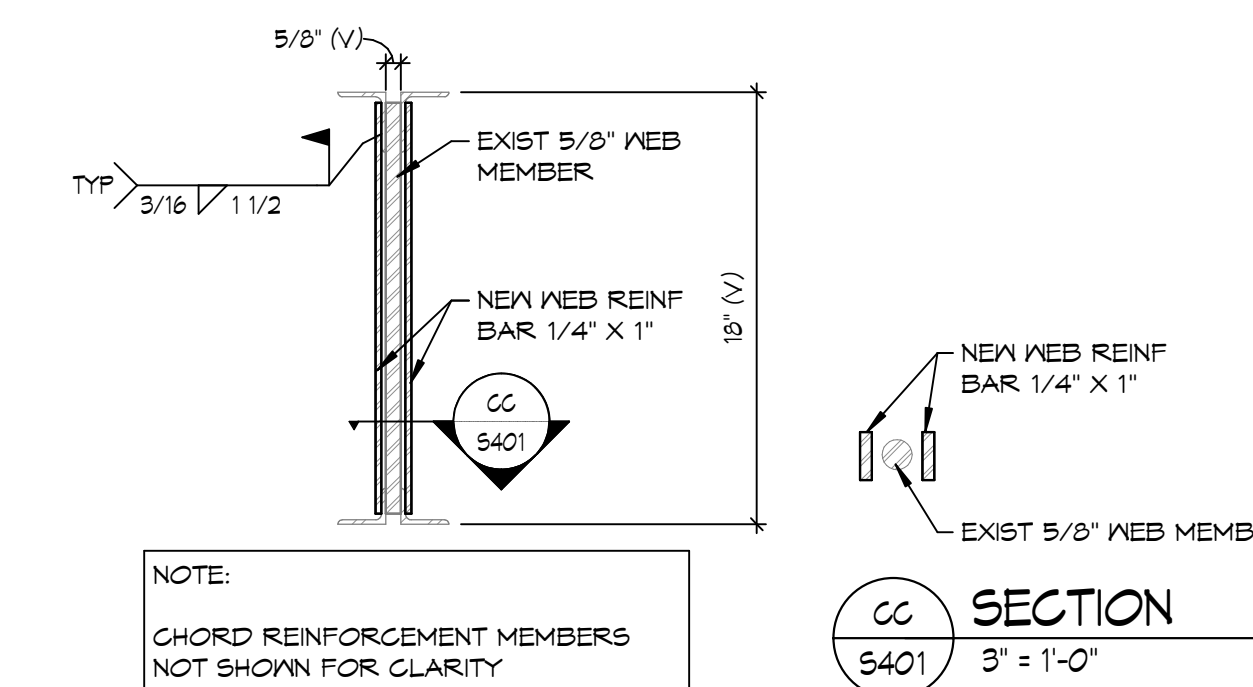
Print Name: **Eric A. Gaff**
Signature: *[Signature]*
Date: 01/23/26 Registration No. 41855

INSERT CLIENT LOGO HERE

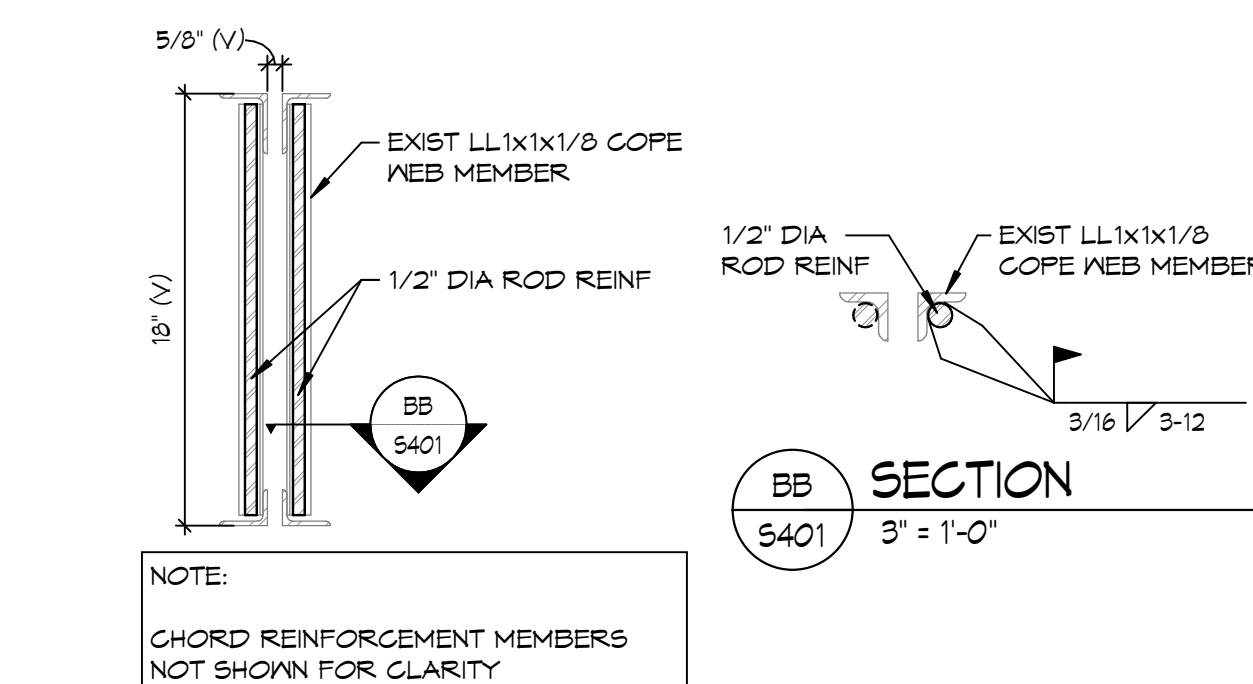
ROBERT ASP
ELEMENTARY SCHOOL
RE ROOF
MOORHEAD, MN

ROOF FRAMING PLAN

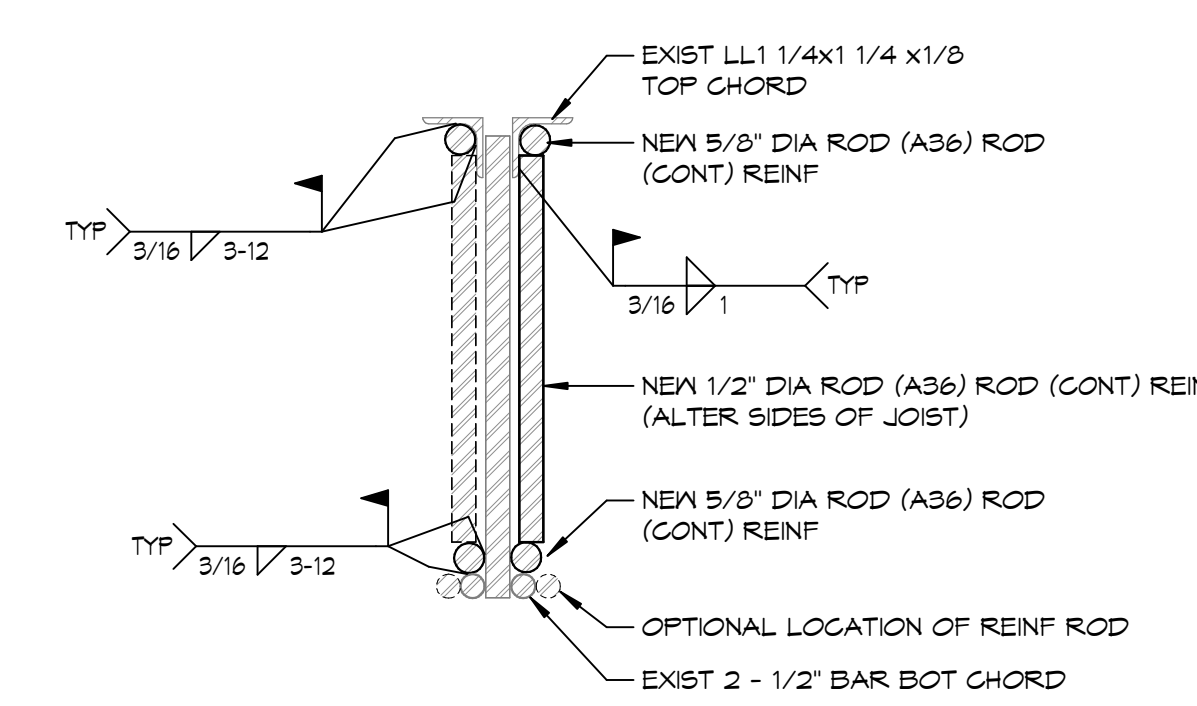
Project No.: 25-041
Date: 01/23/26 **S202**



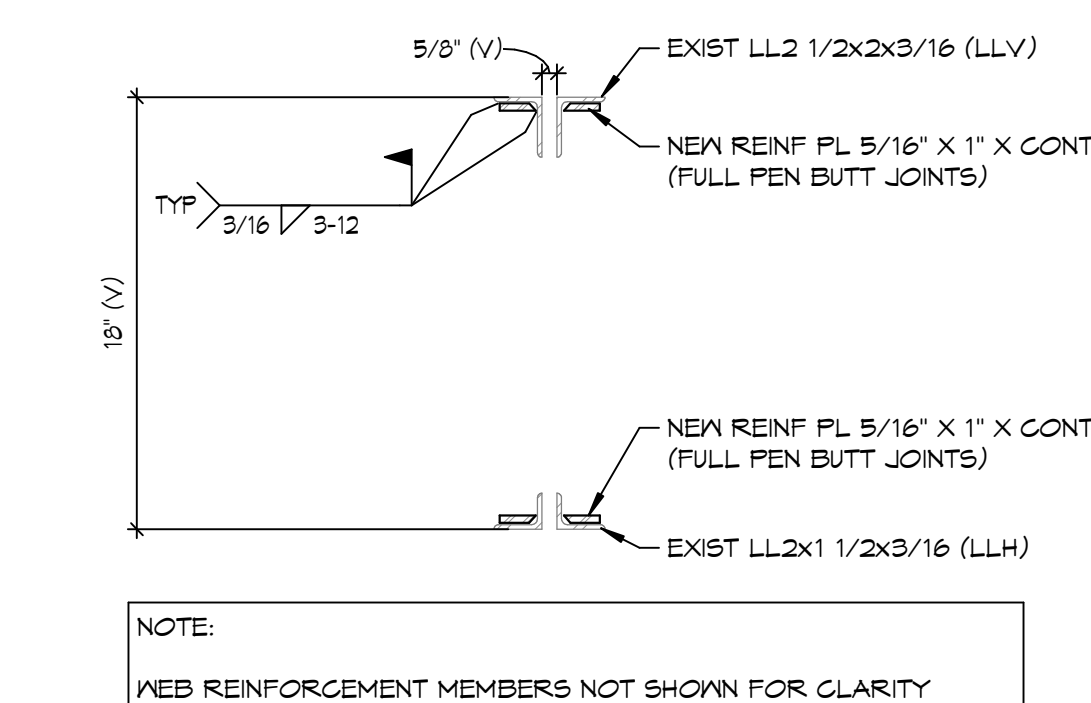
5
5401 **ROD WEB MEMBER REINFORCEMENT DETAIL**
1 1/2" = 1'-0"



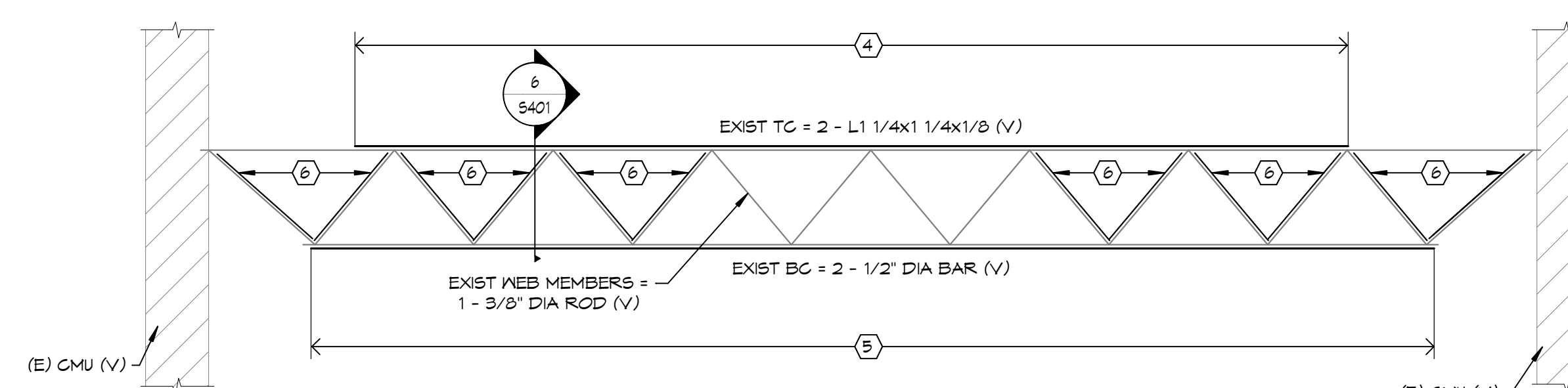
4
5401 **ANGLE WEB MEMBER REINFORCEMENT DETAIL**
1 1/2" = 1'-0"



6
5401 **JOIST REINFORCEMENT DETAIL**
3" = 1'-0"

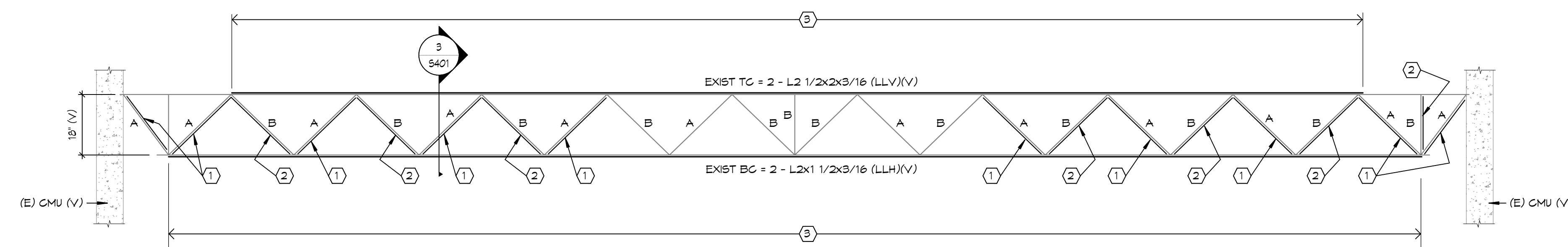


3
5401 **CHORD REINFORCEMENT DETAIL**
1 1/2" = 1'-0"



- KEYNOTES:**
- (4) REINFORCE (E) ANGLE TOP CHORD MEMBER IV 2 - 5/8" DIA (36ksi) ROD, SD 6/5401
 - (5) REINFORCE (E) 1/2" DIA ROD BOTTOM CHORD MEMBER IV 2 - 5/8" DIA (36ksi) ROD, SD 6/5401
 - (6) REINFORCE (E) 3/8" DIA (V) WEB MEMBER IV 1 - 1/2" DIA (A36) ROD, ALTERNATE EACH SIDE OF JOIST, SD 6/5401

2
5401 **(E) JOIST REINFORCEMENT ELEVATION**
3/4" = 1'-0"



- KEYNOTES:**
- (1) REINFORCE (E) ANGLE WEB MEMBER IV 1 - 1/2" DIA (36ksi) ROD, SD 4/5401
 - (2) REINFORCE (E) ROD WEB MEMBER IV 2 - 1/4" DIA X 1" BAR, SD 5/5401
 - (3) REINFORCE (E) DOUBLE ANGLE TOP & BOT CHORD MEMBER IV 2 - 5/16" X 1" BAR (CONT), SD 3/5401
- A = EXIST WEB = 2 - L1x1x1/8 (V)
B = EXIST WEB = 1 - 5/8" DIA ROD (V)

1
5401 **(E) 18L04 JOIST REINFORCEMENT ELEVATION**
1/2" = 1'-0"

REVISION SCHEDULE		
NUMBER	DESCRIPTION	DATE

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

Print Name: Eric A. Gault
Signature: [Signature]
Date: 01/23/26 Registration No. 41855

INSERT CLIENT LOGO HERE

ROBERT ASP
ELEMENTARY SCHOOL
RE ROOF
MOORHEAD, MN

FRAMING DETAILS

Project No.: 25-041
Date: 01/23/26 **S401**