

TOWN OF WASHINGTON

5750 OLD TOWN HALL RD,
EAU CLAIRE, WISCONSIN 54701

GENERAL

- G100 TITLE SHEET
- G101 EGRESS PLAN, CODE ANAYLSIS

CIVIL

- C101 EXISTING CONDITIONS AND DEMOLITION PLAN
- C102 SITE PLAN
- C103 GRADING AND EROSION CONTROL PLAN
- C501 CONSTRUCTION DETAILS

ARCHITECTURAL

- A200 DEMOLITION FLOOR AND ROOF PLANS
- A300 FIRST FLOOR ADDITION, DOOR AND FRAME TYPES, WINDOW TYPE, AND WALL TYPE
- A301 ROOF PLAN
- A400 EXTERIOR ELEVATIONS, SECTIONS, DETAILS
- A500 DOOR AND WINDOW DETAILS
- A700 PROPOSED REFLECTED CEILING PLAN

STRUCTURAL

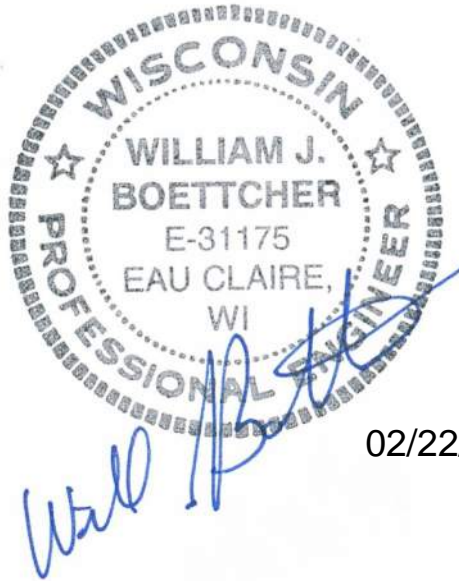
- S100 STRUCTURAL DESIGN NOTES
- S200 FOUNDATION PLAN
- S300 ROOF FRAMING PLAN
- S500 STRUCTURAL DETAILS

MECHANICAL

- M100 MECHANICAL GENERAL INFO. SHEET
- M101 MECHANICAL DEMOLITION PLANS
- M201 MECHANICAL ADDITION PLANS

ELECTRICAL

- E101 ELECTRICAL FIRST FLOOR PLAN DEMOLITION
- E201 ELECTRICAL FIRST FLOOR PLAN ADDITION



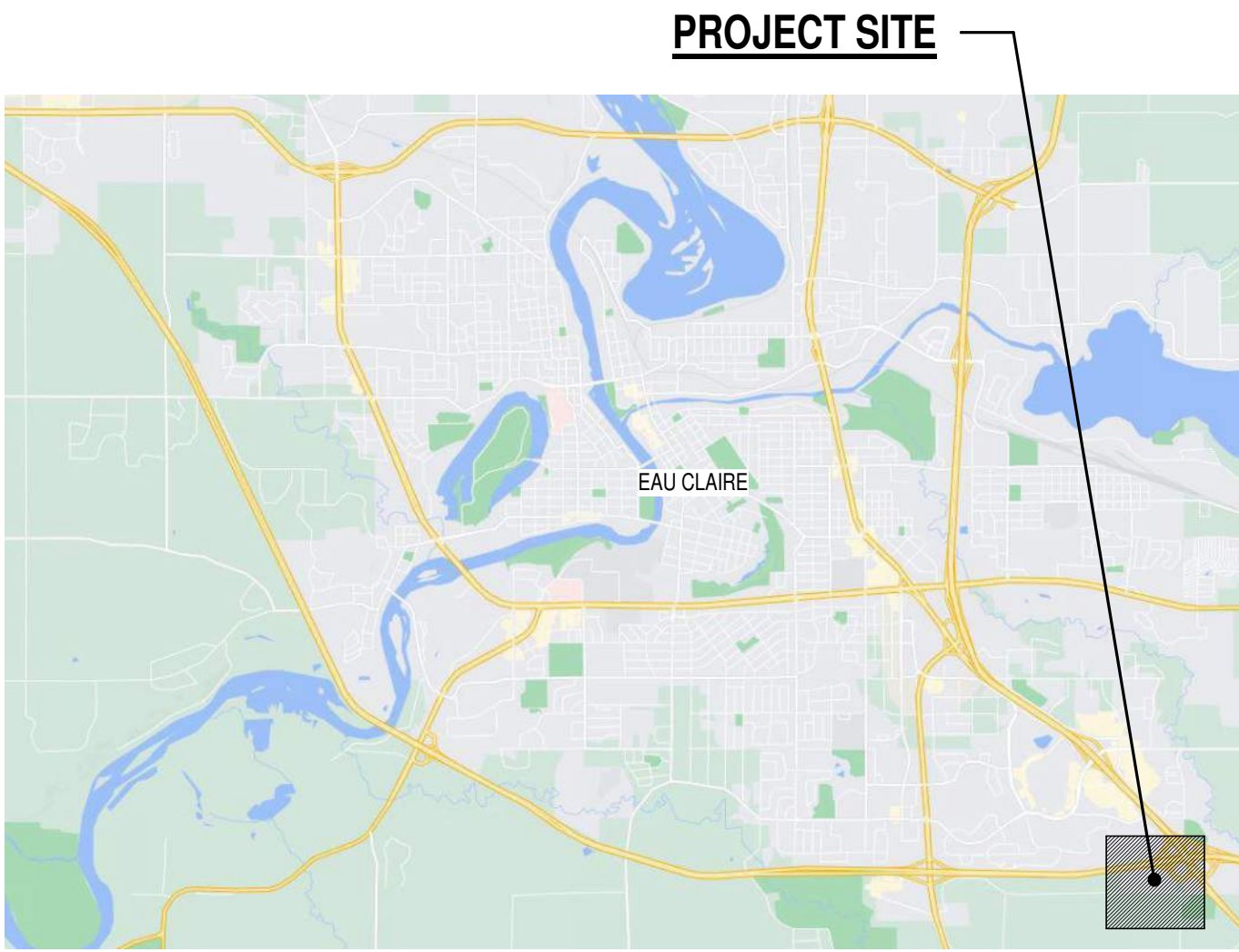
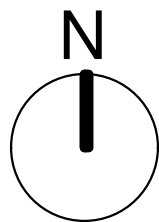
02/22/2023



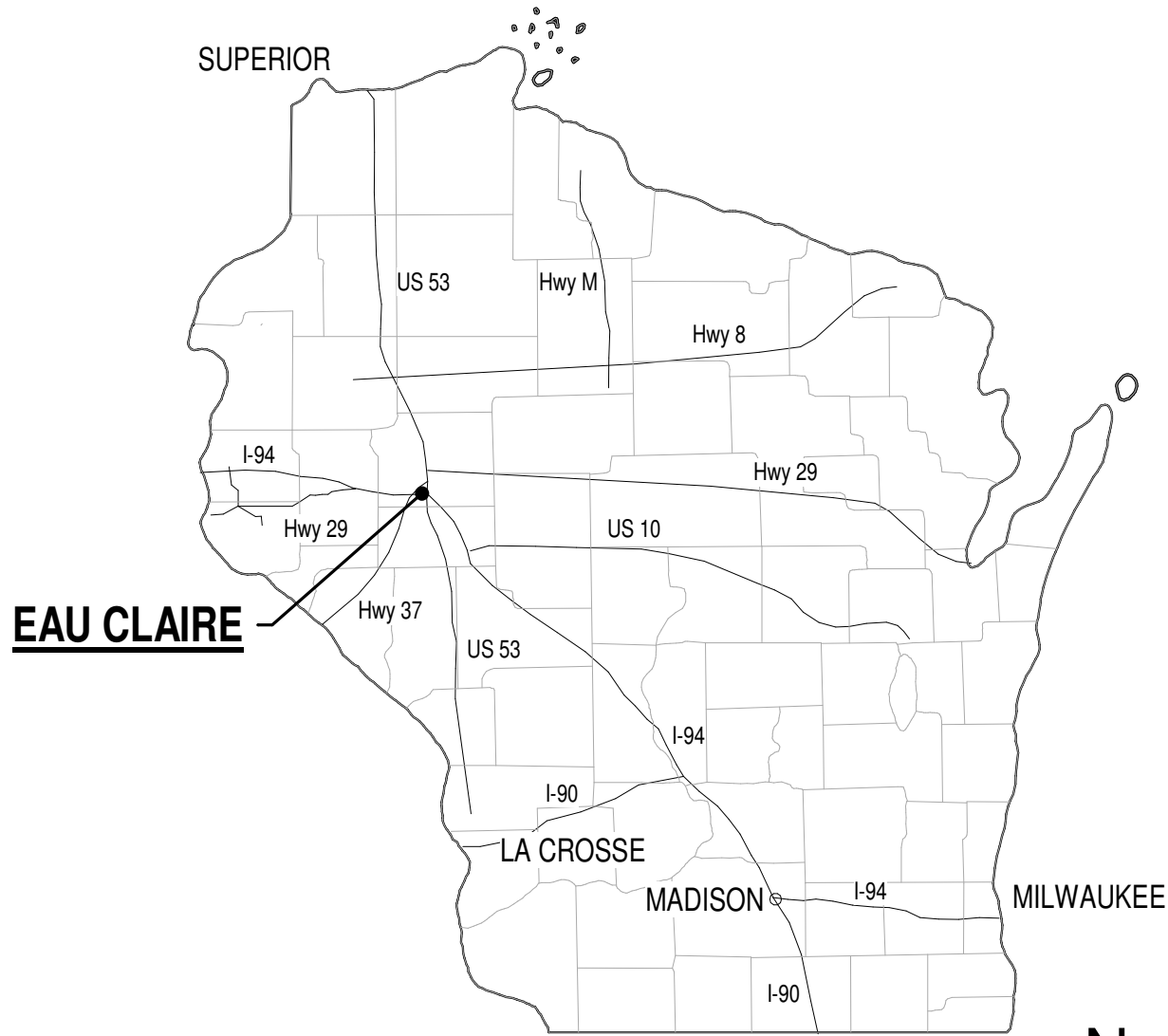
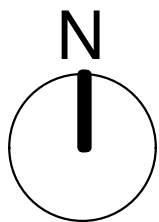
02/22/2023



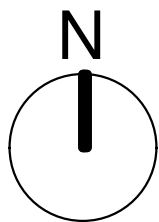
3 VICINITY MAP
N.T.S.



2 AREA MAP
N.T.S.



1 STATE MAP
N.T.S.



TOWN OF WASHINGTON

5750 OLD TOWN HALL RD,
EAU CLAIRE, WISCONSIN 54701

TITLE SHEET

REVISIONS:	
NO.	DATE

ISSUE DATE: 02/22/2023

G100

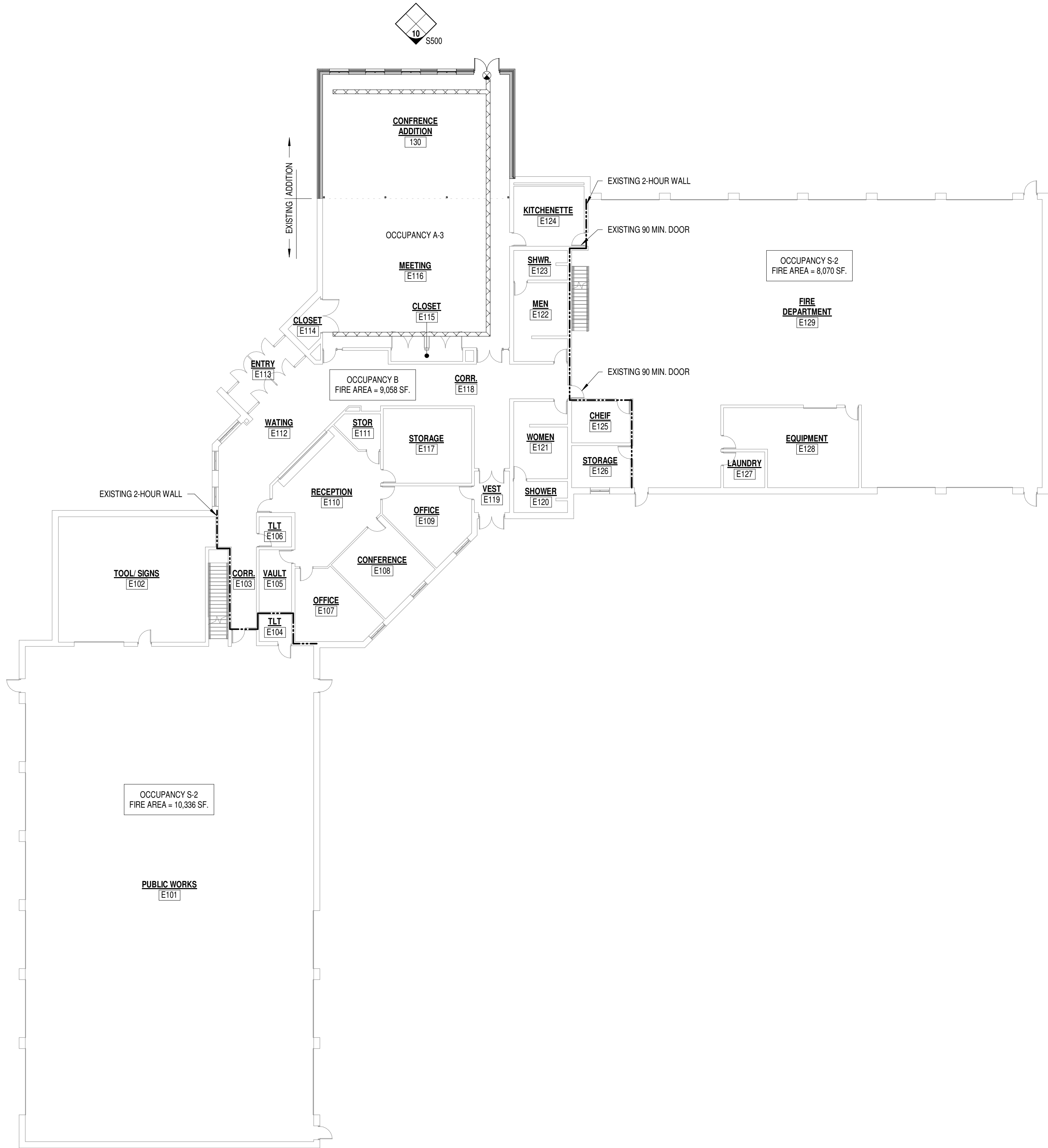
L&P PROJECT # 21090

LIEN & PETERSON ARCHITECTS, INC

4675 ROYAL DIRVE
EAU CLAIRE, WI
TELEPHONE
EMAIL

ARCHITECTS
L&P
ENGINEERS

PO BOX 925
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715-835-7500
admin@2dip.com



CODE LEGEND

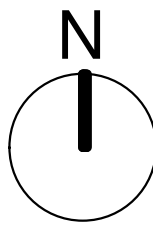
- EXIT LIGHT
- PATH OF EGRESS
- 1-HR FIRE RATING
- 2-HR FIRE RATING
- FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- BRACKET-MOUNTED FIRE EXTINGUISHER

CODE ANALYSIS

BUILDING CODE	IBC 2015	
ACCESSIBILITY CODE	ICC/ANSI A117.1-2009	
CONSTRUCTION TYPE	IIB	
OCCUPANCY GROUP	B, A-3, S-2	
OCCUPANT LOAD	215	
ALLOWABLE BLDG HT & SF	2	9,500 SF
AREA INCREASE	4,030 SF	13,530 SF
PROPOSED BLDG HT & SF	1 STORY	9,058 SF
FIRE SUPPRESSION	NONE	
MAX. TRAVEL DISTANCE	200' ALLOWED	102' ACTUAL
EXITS (REQ'D/PROVIDED)	2 EA.	3
WORK AREA	2,992 SF	
PARKING (REQ'D/PROVIDED)	NA	
TOILET ROOM (REQ'D/PROVIDED)	1.73 EA.	3 EA.

1 FIRST FLOOR - EGRESS

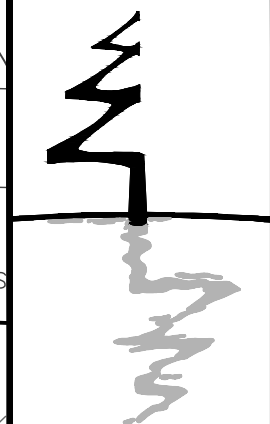
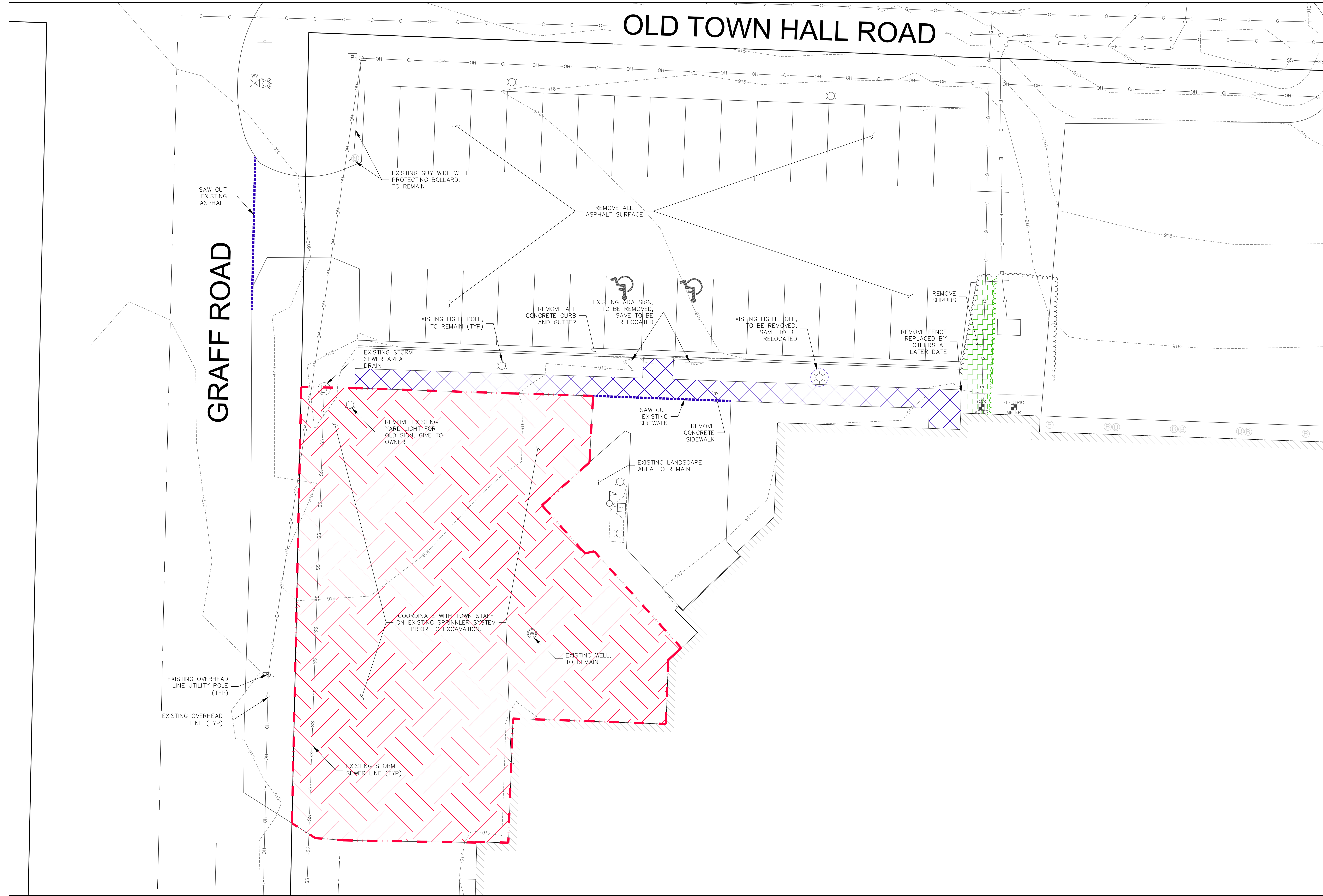
1/16" = 1'-0"



REVISIONS:	
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02/22/2023

G101



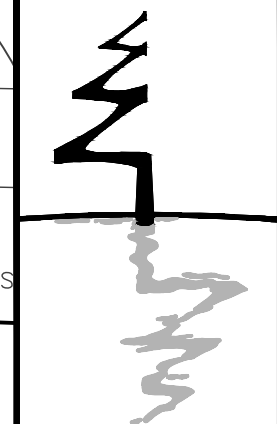
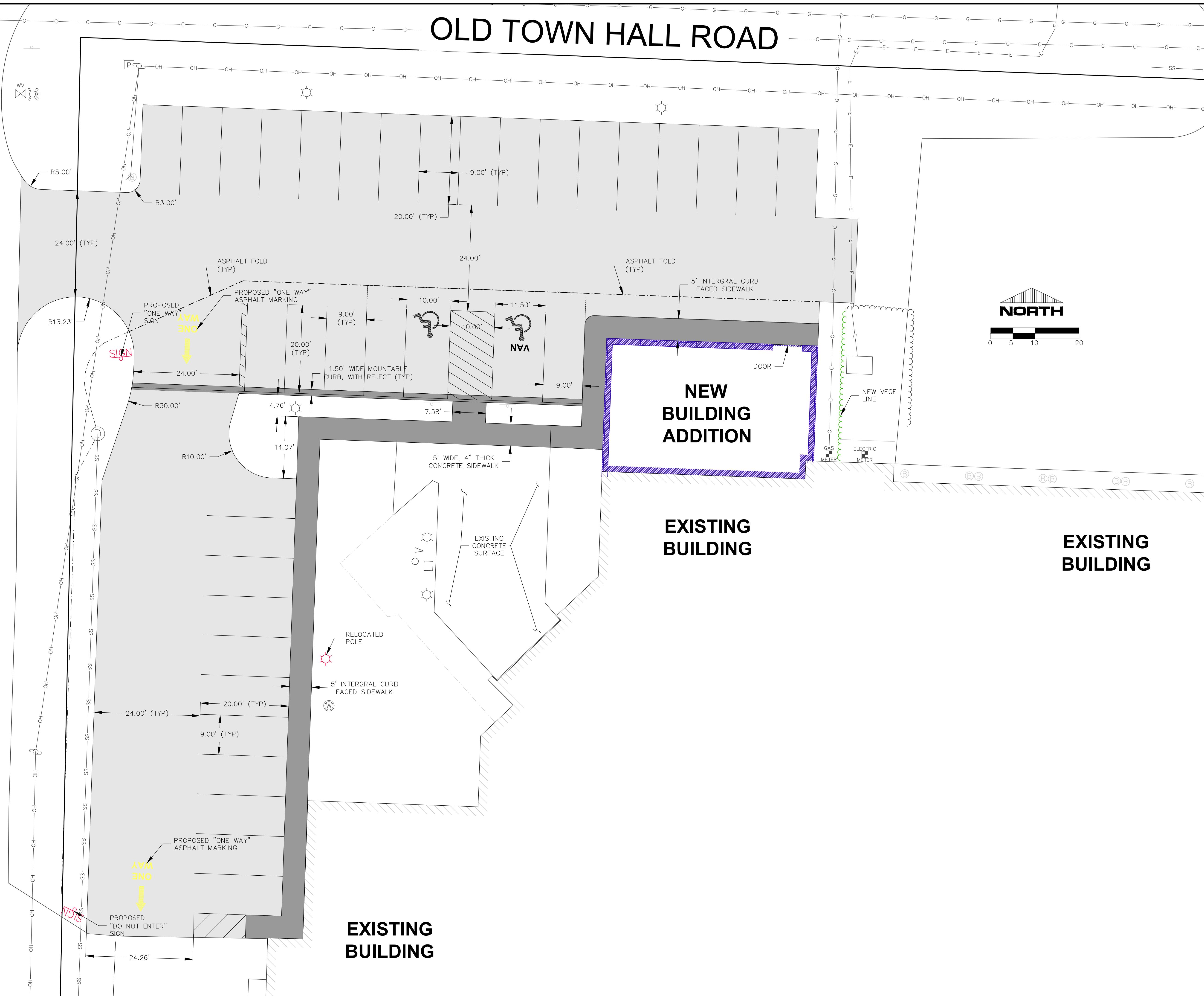
EVERYDAY SURVEYING & ENGINEERING
711 S. HILL CREST PARKWAY • ALTOONA, WI 54720
PH: (715) 831-0654 • EMAIL: INFO@ESELCCO

DR BY: CVW	JOB NO: 23002
CHK BY: MAE	DWG NAME: C101
DATE: 02-23-23	APRVD: --/--/--

TOWN HALL ADDITION
EXISTING CONDITIONS AND DEMOLITION PLAN
TOWN OF WASHINGTON, EAU CLAIRE COUNTY, WI

GRAFF ROAD

OLD TOWN HALL ROAD



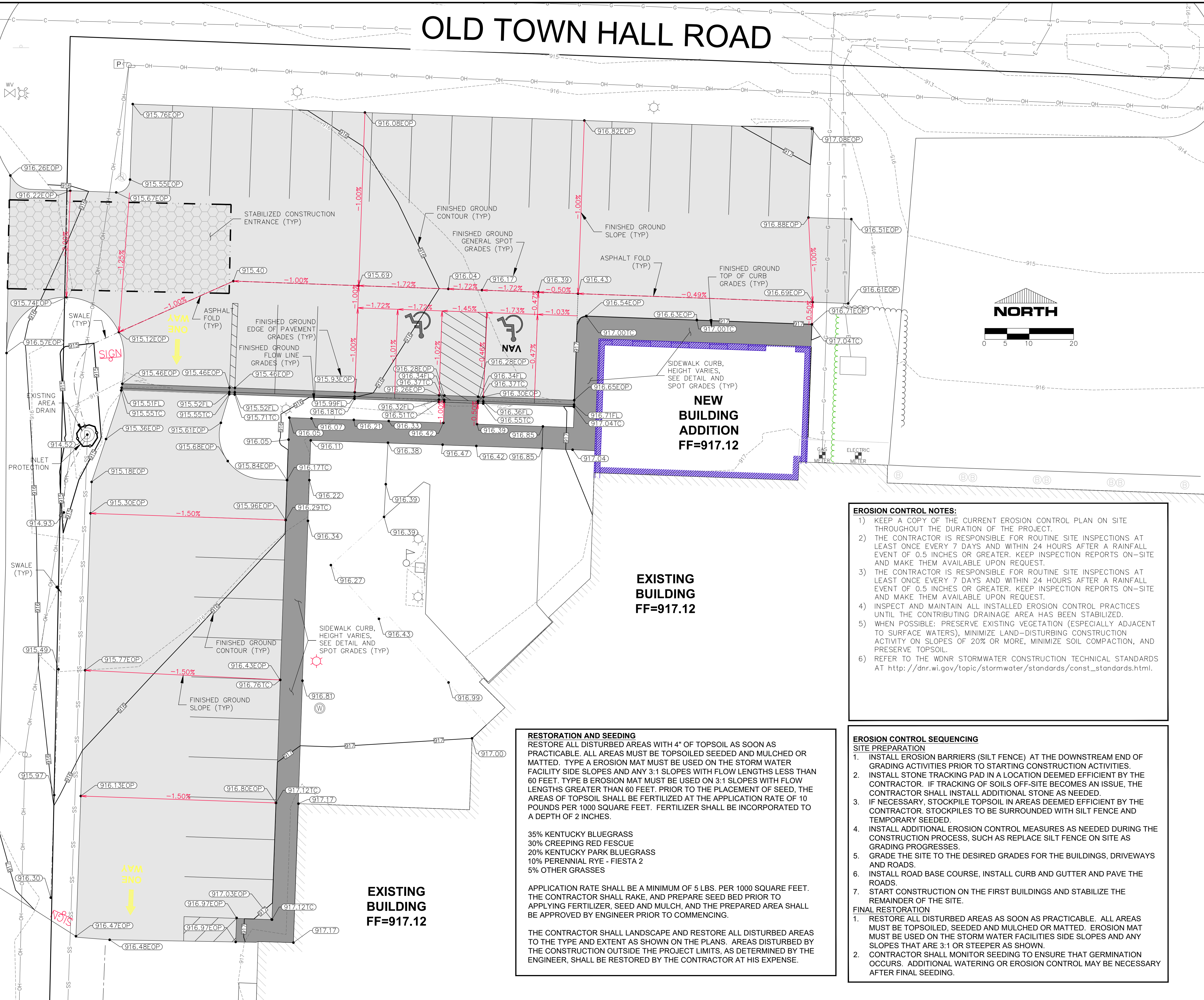
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DR BY: CVW	JOB NO: 23002
CHK BY: MAE	DWG NAME: C102
DATE: 02-23-23	APRVD: --/--/--

TOWN HALL ADDITION
SITE PLAN
TOWN OF WASHINGTON, EAU CLAIRE COUNTY, WI

GRAFF ROAD

OLD TOWN HALL ROAD



- EROSION CONTROL NOTES:**
- 1) KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
 - 2) THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
 - 3) THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
 - 4) INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
 - 5) WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
 - 6) REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.

RESTORATION AND SEEDING
RESTORE ALL DISTURBED AREAS WITH 4" OF TOPSOIL AS SOON AS PRACTICABLE. ALL AREAS MUST BE TOPSOILED SEEDING AND MULCHED OR MATTED. TYPE A EROSION MAT MUST BE USED ON THE STORM WATER FACILITY SIDE SLOPES AND ANY 3:1 SLOPES WITH FLOW LENGTHS LESS THAN 60 FEET. TYPE B EROSION MAT MUST BE USED ON 3:1 SLOPES WITH FLOW LENGTHS GREATER THAN 60 FEET. PRIOR TO THE PLACEMENT OF SEED, THE AREAS OF TOPSOIL SHALL BE FERTILIZED AT THE APPLICATION RATE OF 10 POUNDS PER 1000 SQUARE FEET. FERTILIZER SHALL BE INCORPORATED TO A DEPTH OF 2 INCHES.

35% KENTUCKY BLUEGRASS
30% CREEPING RED FESCUE
20% KENTUCKY PARK BLUEGRASS
10% PERENNIAL RYE - FIESTA 2
5% OTHER GRASSES

APPLICATION RATE SHALL BE A MINIMUM OF 5 LBS. PER 1000 SQUARE FEET. THE CONTRACTOR SHALL RAKE, AND PREPARE SEED BED PRIOR TO APPLYING FERTILIZER, SEED AND MULCH, AND THE PREPARED AREA SHALL BE APPROVED BY ENGINEER PRIOR TO COMMENCING.

THE CONTRACTOR SHALL LANDSCAPE AND RESTORE ALL DISTURBED AREAS TO THE TYPE AND EXTENT AS SHOWN ON THE PLANS. AREAS DISTURBED BY THE CONSTRUCTION OUTSIDE THE PROJECT LIMITS, AS DETERMINED BY THE ENGINEER, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE.

- EROSION CONTROL SEQUENCING**
SITE PREPARATION
1. INSTALL EROSION BARRIERS (SILT FENCE) AT THE DOWNSTREAM END OF GRADING ACTIVITIES PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
 2. INSTALL STONE TRACKING PAD IN A LOCATION DEEMED EFFICIENT BY THE CONTRACTOR. IF TRACKING OF SOILS OFF-SITE BECOMES AN ISSUE, THE CONTRACTOR SHALL INSTALL ADDITIONAL STONE AS NEEDED.
 3. IF NECESSARY, STOCKPILE TOPSOIL IN AREAS DEEMED EFFICIENT BY THE CONTRACTOR. STOCKPILES TO BE SURROUNDED WITH SILT FENCE AND TEMPORARY SEEDING.
 4. INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NEEDED DURING THE CONSTRUCTION PROCESS, SUCH AS REPLACE SILT FENCE ON SITE AS GRADING PROGRESSES.
 5. GRADE THE SITE TO THE DESIRED GRADES FOR THE BUILDINGS, DRIVEWAYS AND ROADS.
 6. INSTALL ROAD BASE COURSE, INSTALL CURB AND GUTTER AND PAVE THE ROADS.
 7. START CONSTRUCTION ON THE FIRST BUILDINGS AND STABILIZE THE REMAINDER OF THE SITE.
- FINAL RESTORATION**
1. RESTORE ALL DISTURBED AREAS AS SOON AS PRACTICABLE. ALL AREAS MUST BE TOPSOILED, SEEDING AND MULCHED OR MATTED. EROSION MAT MUST BE USED ON THE STORM WATER FACILITIES SIDE SLOPES AND ANY SLOPES THAT ARE 3:1 OR STEEPER AS SHOWN.
 2. CONTRACTOR SHALL MONITOR SEEDING TO ENSURE THAT GERMINATION OCCURS. ADDITIONAL WATERING OR EROSION CONTROL MAY BE NECESSARY AFTER FINAL SEEDING.

NOTES:
* WOOD POSTS SHALL BE A MINIMUM SIZE OF 1-1/2" X 1-1/2" OF EITHER OAK OR HICKORY.
** ADDITIONAL WOOD POST OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.
*** ADDITIONAL DEPTH OF WOOD POST MAY BE REQUIRED IN UNSTABLE SOILS.
**** TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE SILT FENCE FABRIC.

ERO 1

SILT FENCE
(DNR STD 1056)
N.T.S.

TYPICAL CURB & GUTTER

SITE 1

18" WIDE CONCRETE CURB & GUTTER
N.T.S.

SITE 50

4" SIDEWALK
N.T.S.

SITE 100

ACCESSIBLE PARKING SIGN
N.T.S.

NOTES:
BOTTOM OF THE GEOTEXTILE FABRIC TYPE FF IS BURIED IN THE TRENCH, THE SAME AS WHEN IT IS INSTALLED AS SILT FENCE.

ERO 4

STORM DRAIN INLET PROTECTION
(DNR STD 1060)
N.T.S.

SITE 47A

TYPICAL ASPHALT SECTION
N.T.S.

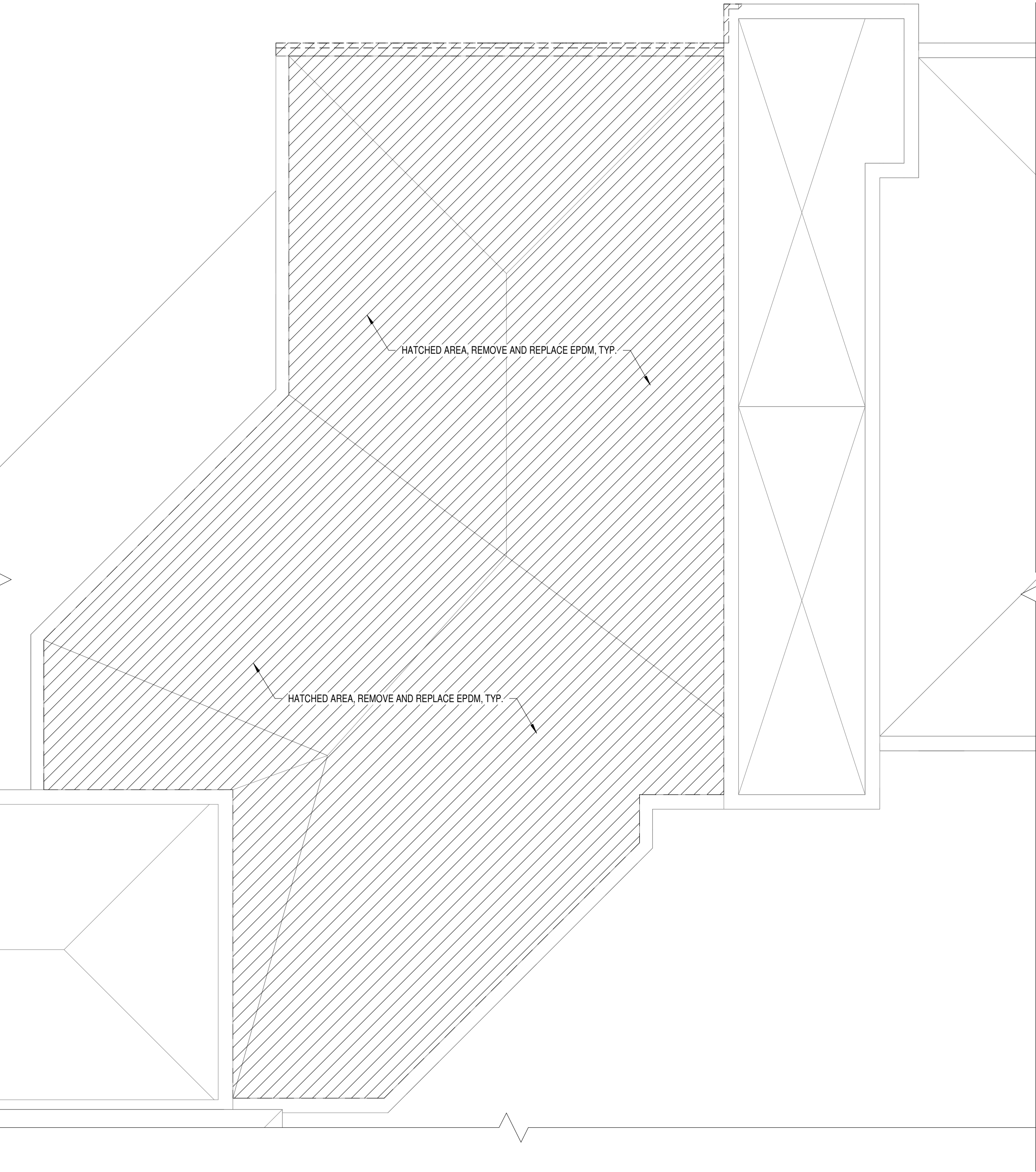
SITE 55

INTEGRAL SIDEWALK CURB WITH VARIABLE HEIGHT
N.T.S.

SITE 64

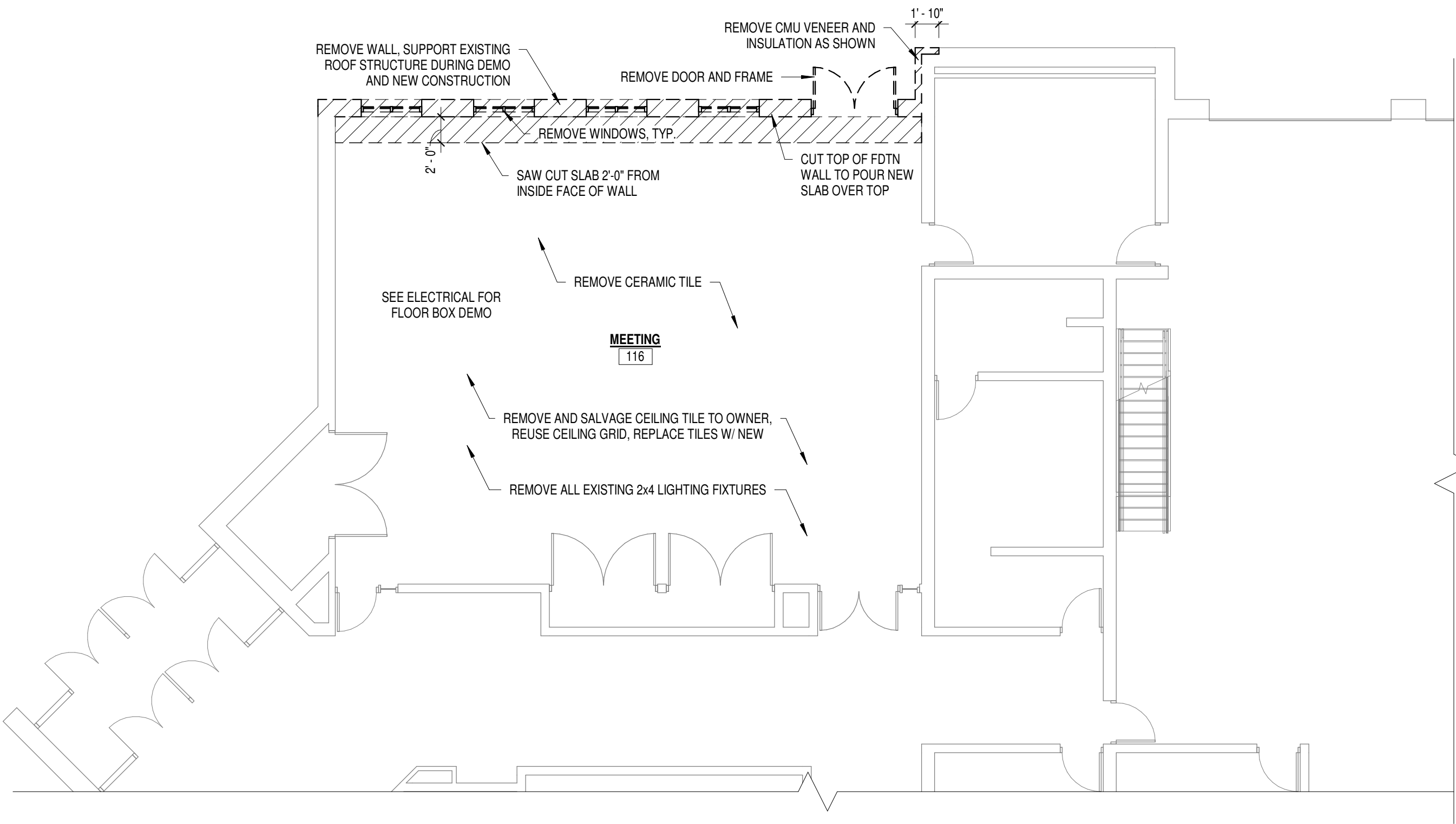
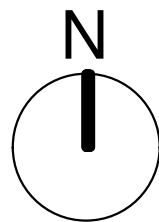
ACCESSIBLE PARKING SIGN
N.T.S.

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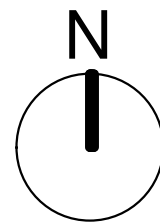
2 ROOF PLAN - DEMO

1/8" = 1'-0"



1 FIRST FLOOR - DEMO

1/8" = 1'-0"



REVISIONS:	
NO.	DATE

ISSUE DATE: 02/22/2023

A200

FLOOR PLAN LEGEND:

ROOM NAME
101

ROOM TAG

RM# 1

DOOR TAG

1

1

ELEVATION TAG

A 401

1

A101

SECTION TAG

W#

WINDOW TAG

11

WALL TAG

Name
Elevation

ELEVATION DATUM

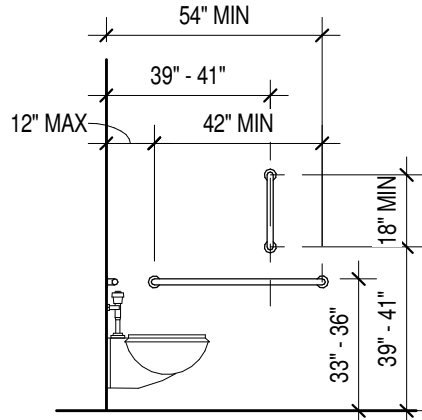
EXIT LIGHT

ROOM FINISH SCHEDULE									
NO.	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	KEYED NOTES
				NORTH	EAST	SOUTH	WEST		
130	CONFERENCE ADDITION	12x12 CERAMIC TILE	CERAMIC	PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED CMU	2x2 CEILING TILE	
E116	MEETING	12x12 CERAMIC TILE	CERAMIC	PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED CMU	2x2 CEILING TILE	

DOOR SCHEDULE										
NO.	DOOR				FRAME				HARDWARE	NOTES
	TYPE	WIDTH	HEIGHT	THICKNESS	TYPE	HEAD	JAMB	SILL		
117.1	A	6' - 0"	7' - 0"	0' - 1 3/4"	1	3/A500	2/A500	1/A500	GROUP 1	

DOOR HARDWARE GROUP

GROUP 1 - EXTERIOR ALUMINUM ENTRANCE (PER LEAF)
1 CONTINUOUS GEARED STAINLESS STEEL HINGE
1 ENTRANCE FUNCTION LOCKSET
1 PANIC HARDWARE
PUSH/ PULL HANDLES
WEATHERSTRIPPING @ JAMBS AND HEAD OF DOOR
1 DOOR CLOSER
1 THRESHOLD
1 SWEEP

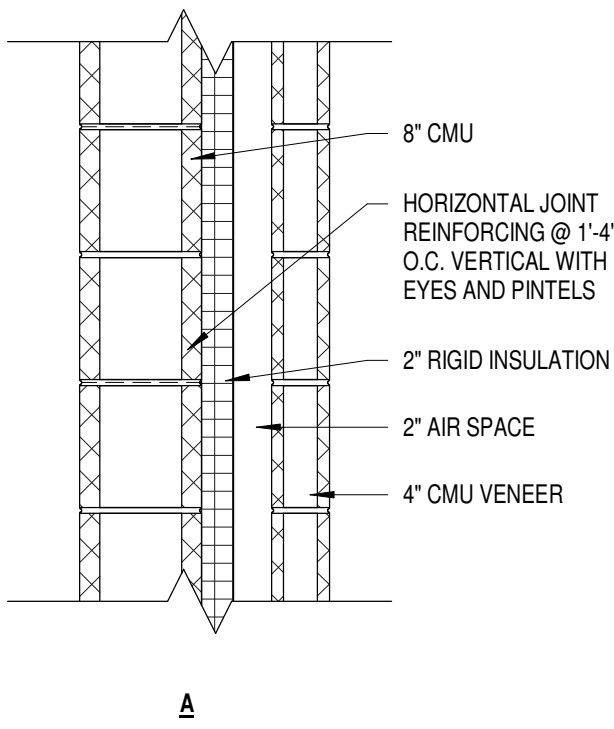


INSTALL ADA COMPLIANT VERTICAL GRAB BAR AT ALL (4) EXISTING TOILET ROOMS. SEE SHEET G101 FOR ROOM LOCATIONS

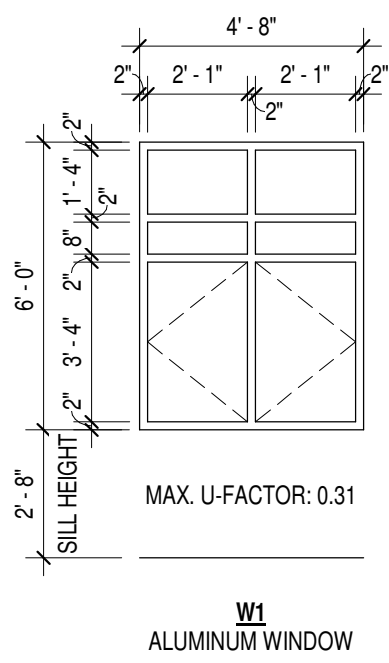
5 VERTICAL GRAB BAR
1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES:

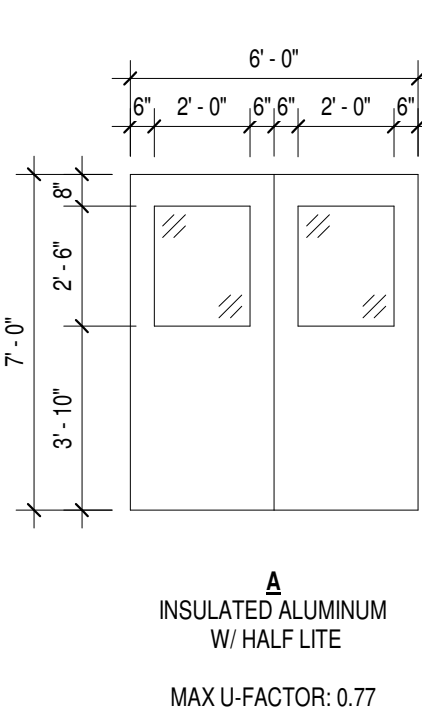
- A. INTERIOR AND EXTERIOR DIMENSIONS:
- EXTERIOR STUD WALLS: FACE OF EXTERIOR SIDE OF STUD
- OPENINGS: CENTER OF OPENING
- INTERIOR STUD WALLS: FACE OF STUD, NOMINAL
- B. WOOD BLOCKING:
- PROVIDE SOLID WOOD BLOCKING FOR ALL WALL AND SOFFIT MOUNTED PRODUCTS AND EQUIPMENT INDICATED ON DRAWINGS
- C. EXISTING COLUMNS AND SUPPORTS TO REMAIN INTACT
- D. PROVIDE CORNER GUARD PROTECTION AT ALL OUTSIDE CORNERS
- E. FURNITURE AND FILE STORAGE BY OWNER



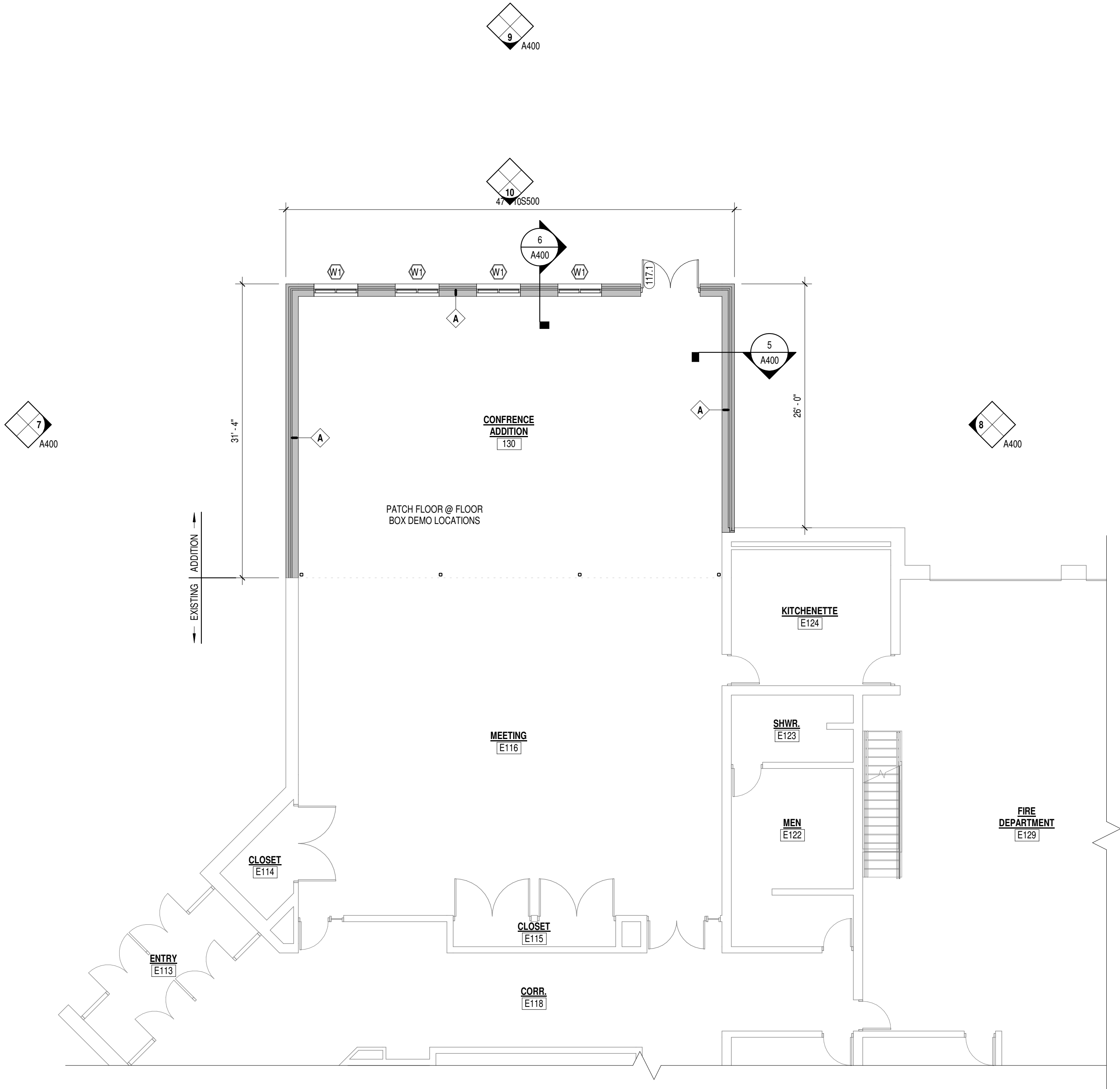
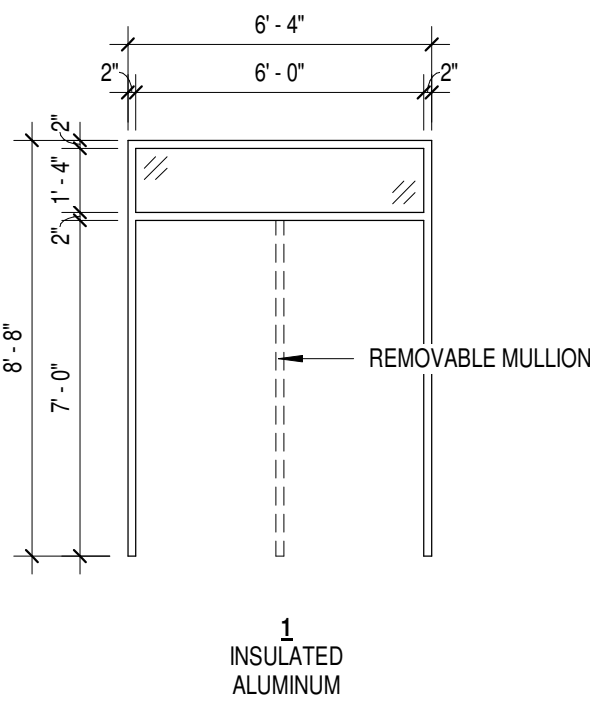
4 WALL TYPE
1" = 1'-0"



3 WINDOW TYPE
1/4" = 1'-0"



2 DOOR AND FRAME TYPES
1/4" = 1'-0"



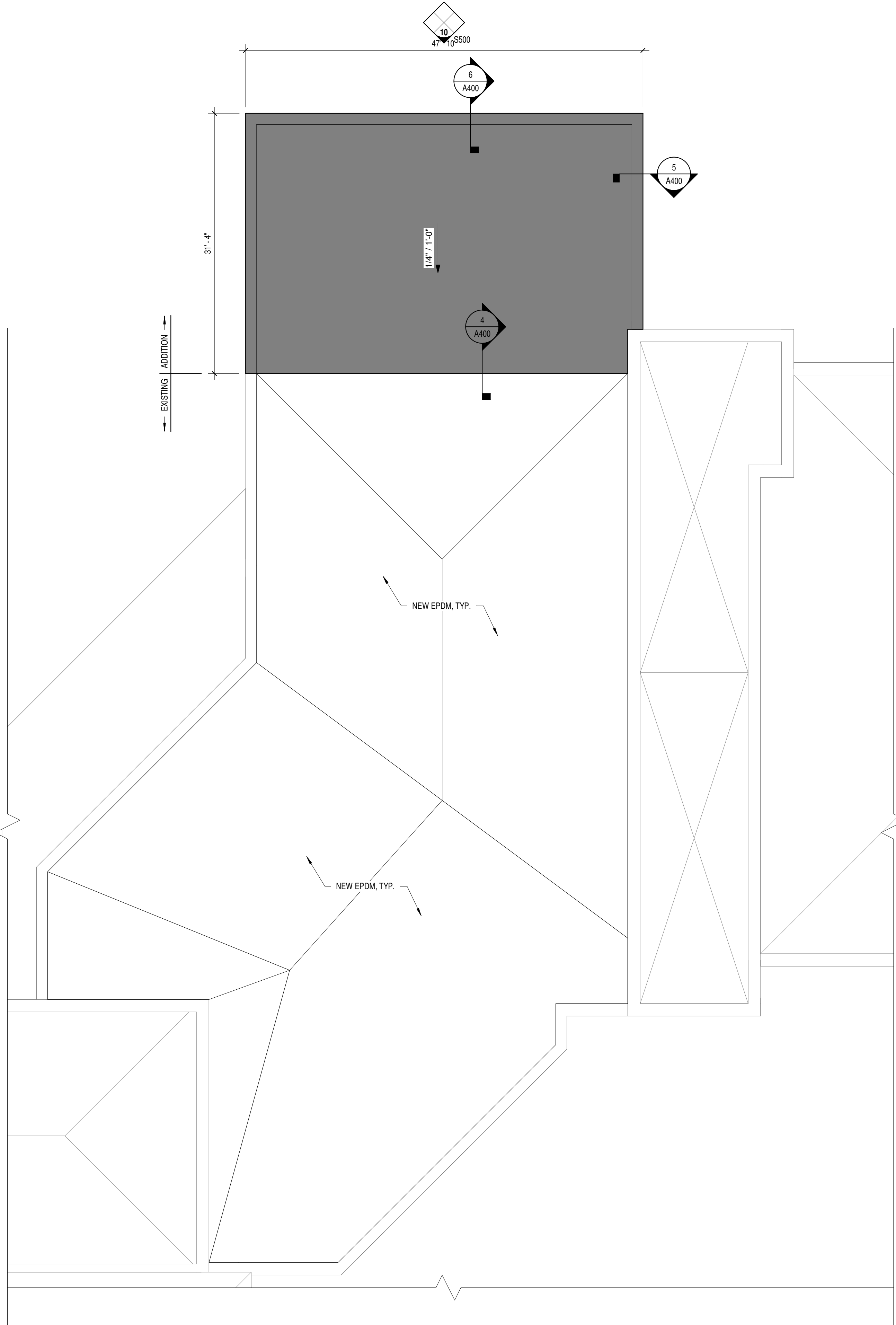
1 FIRST FLOOR - ADDITION
1/8" = 1'-0"

FLOOR PLAN LEGEND:

<div>ROOM NAME</div> <div>101</div>	ROOM TAG
<div>RM#1</div>	DOOR TAG
<div>1 1 A.401</div>	ELEVATION TAG
<div>1 A101</div>	SECTION TAG
<div>W#</div>	WINDOW TAG
<div>11</div>	WALL TAG
<div>Name Elevation</div>	ELEVATION DATUM
<div></div>	EXIT LIGHT

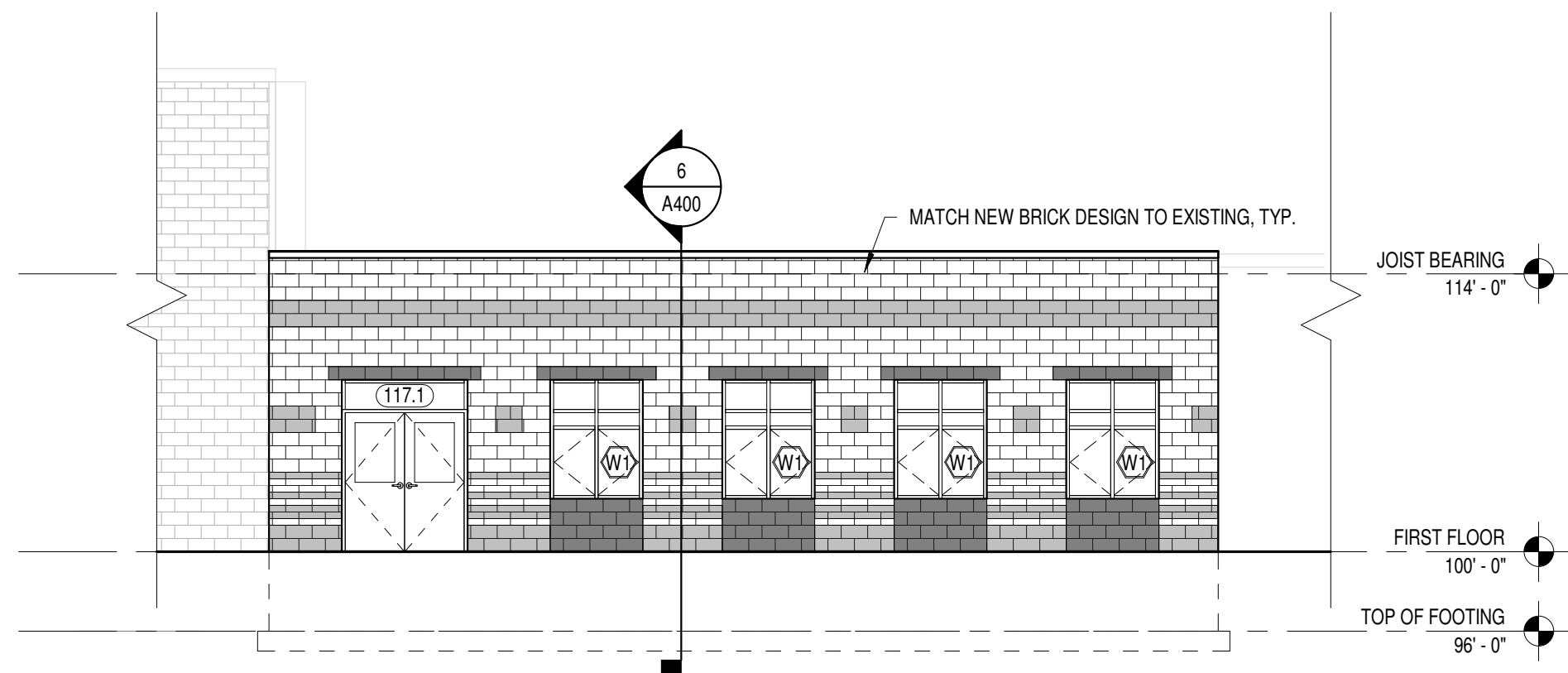
GENERAL FLOOR PLAN NOTES:

- A. INTERIOR AND EXTERIOR DIMENSIONS:
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- D. PROVIDE CORNER GUARD PROTECTION AT ALL OUTSIDE CORNERS
- E. FURNITURE AND FILE STORAGE BY OWNER

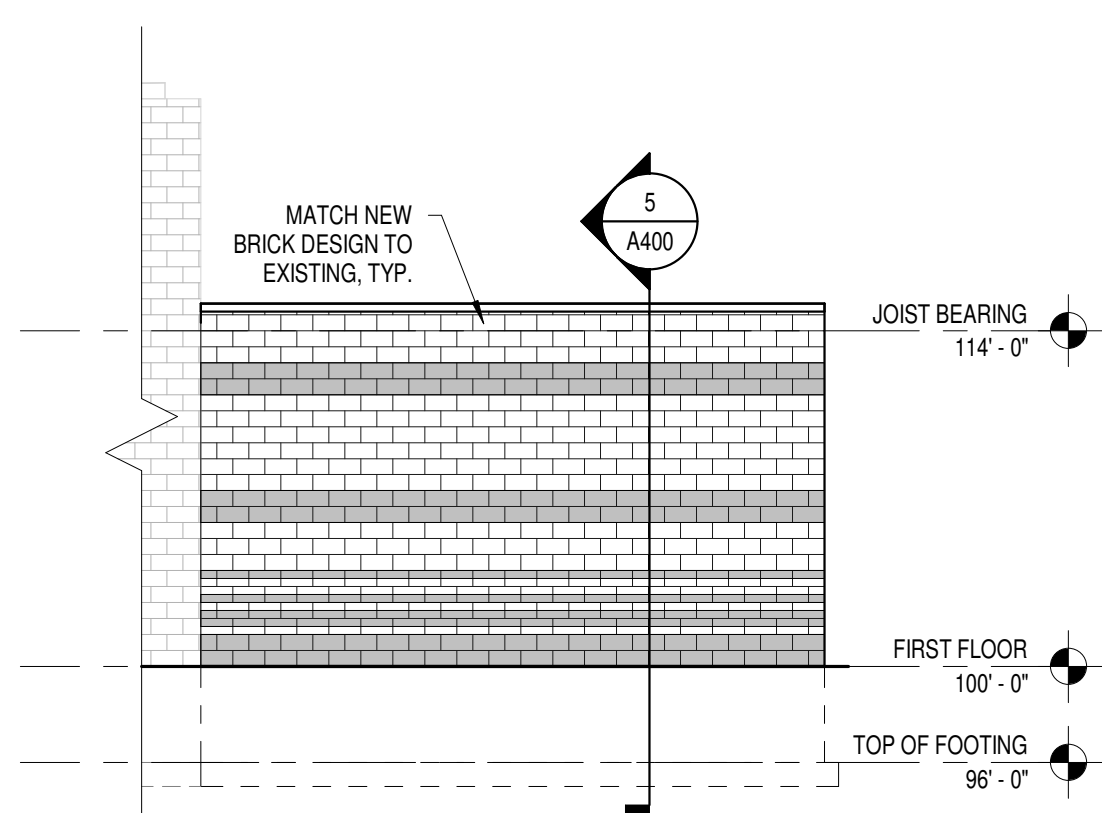


1 ROOF PLAN

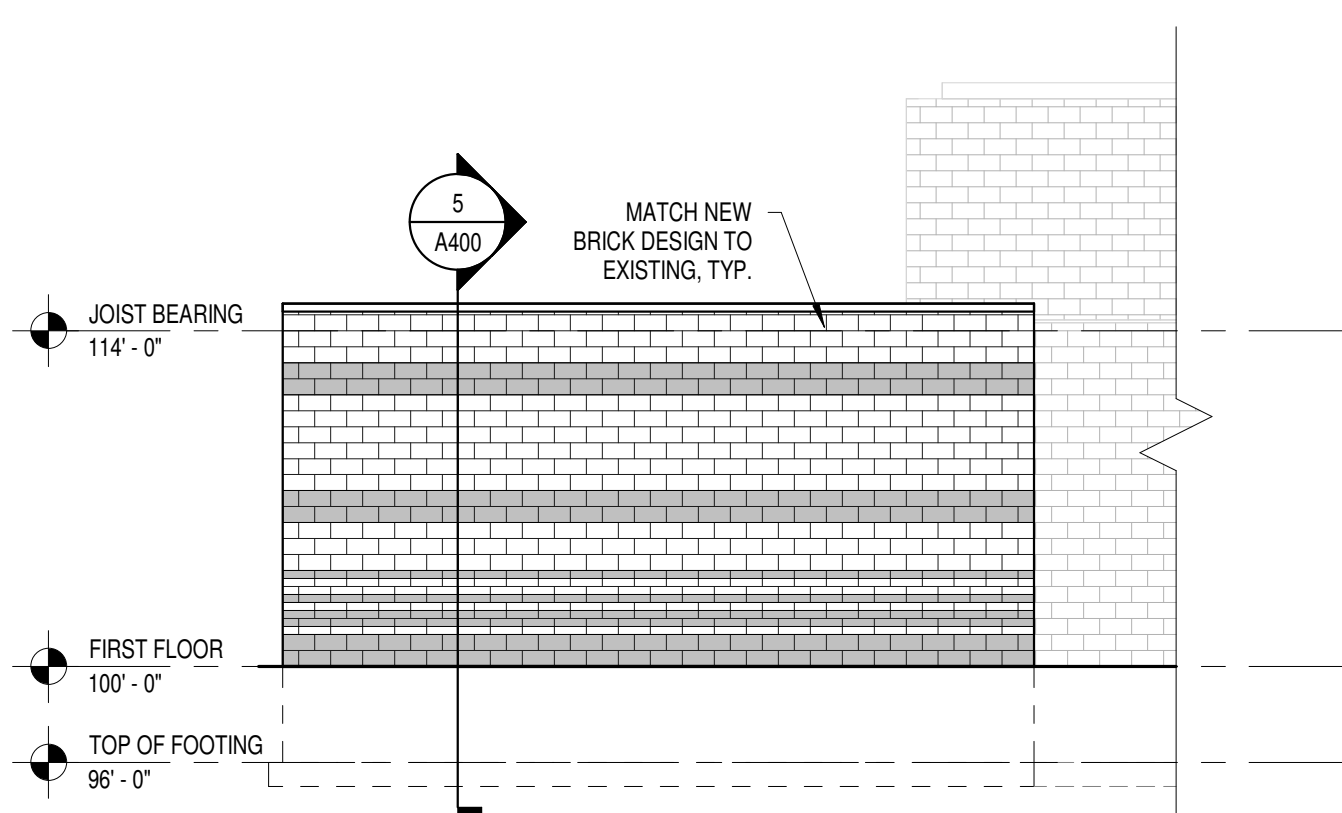
1/8" = 1'-0"



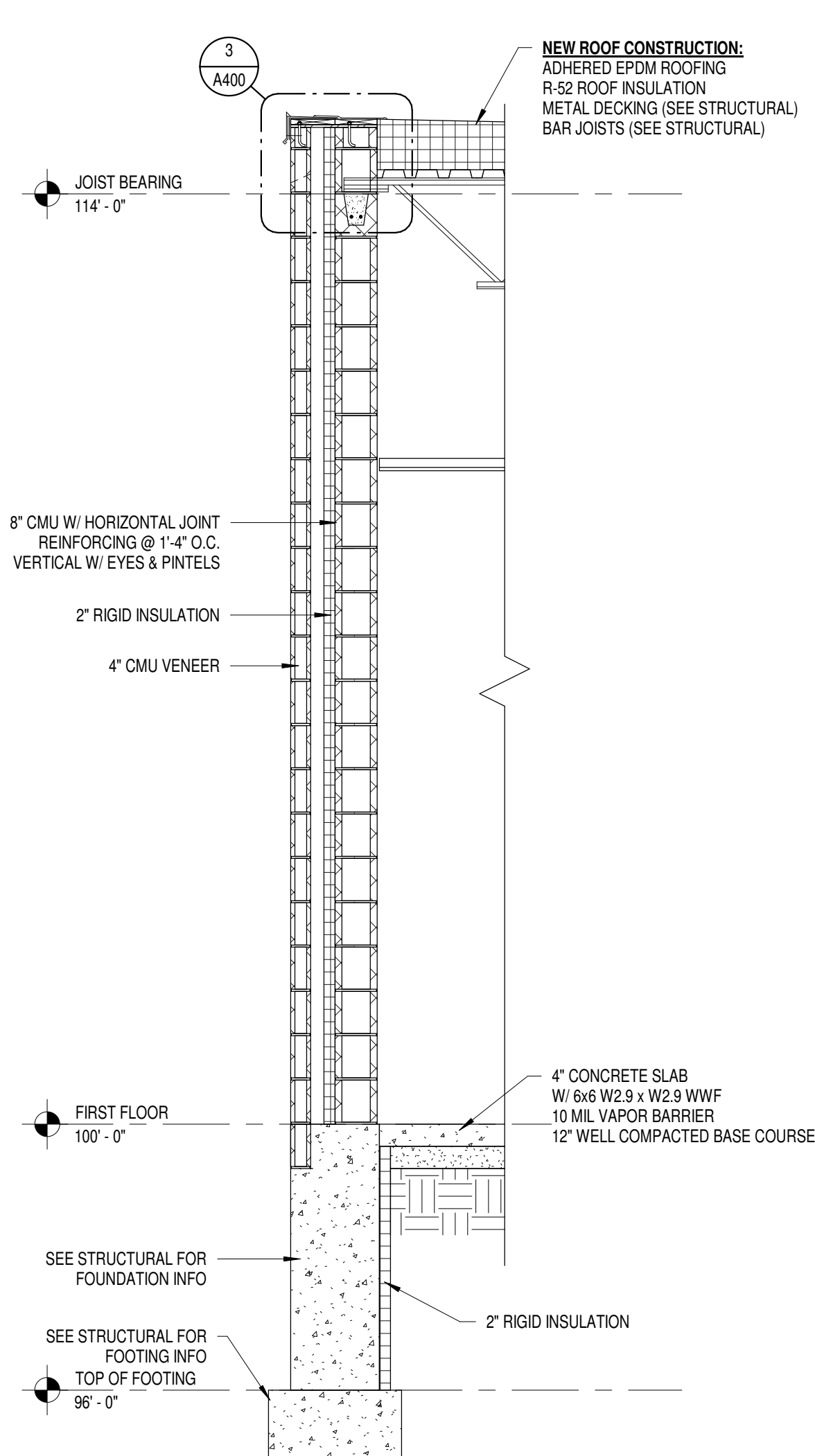
9 NORTH ELEVATION
1/8" = 1'-0"



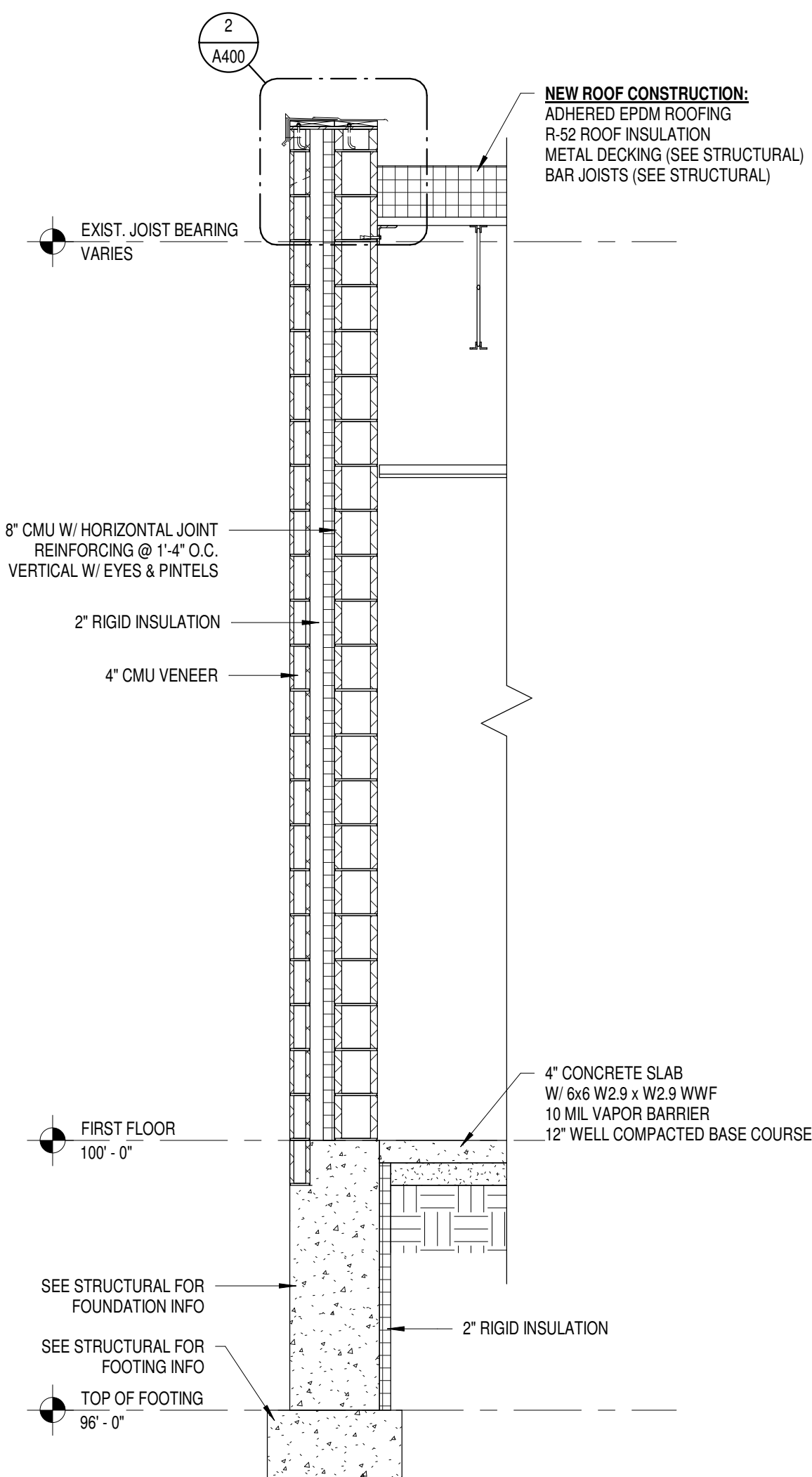
8 EAST ELEVATION
1/8" = 1'-0"



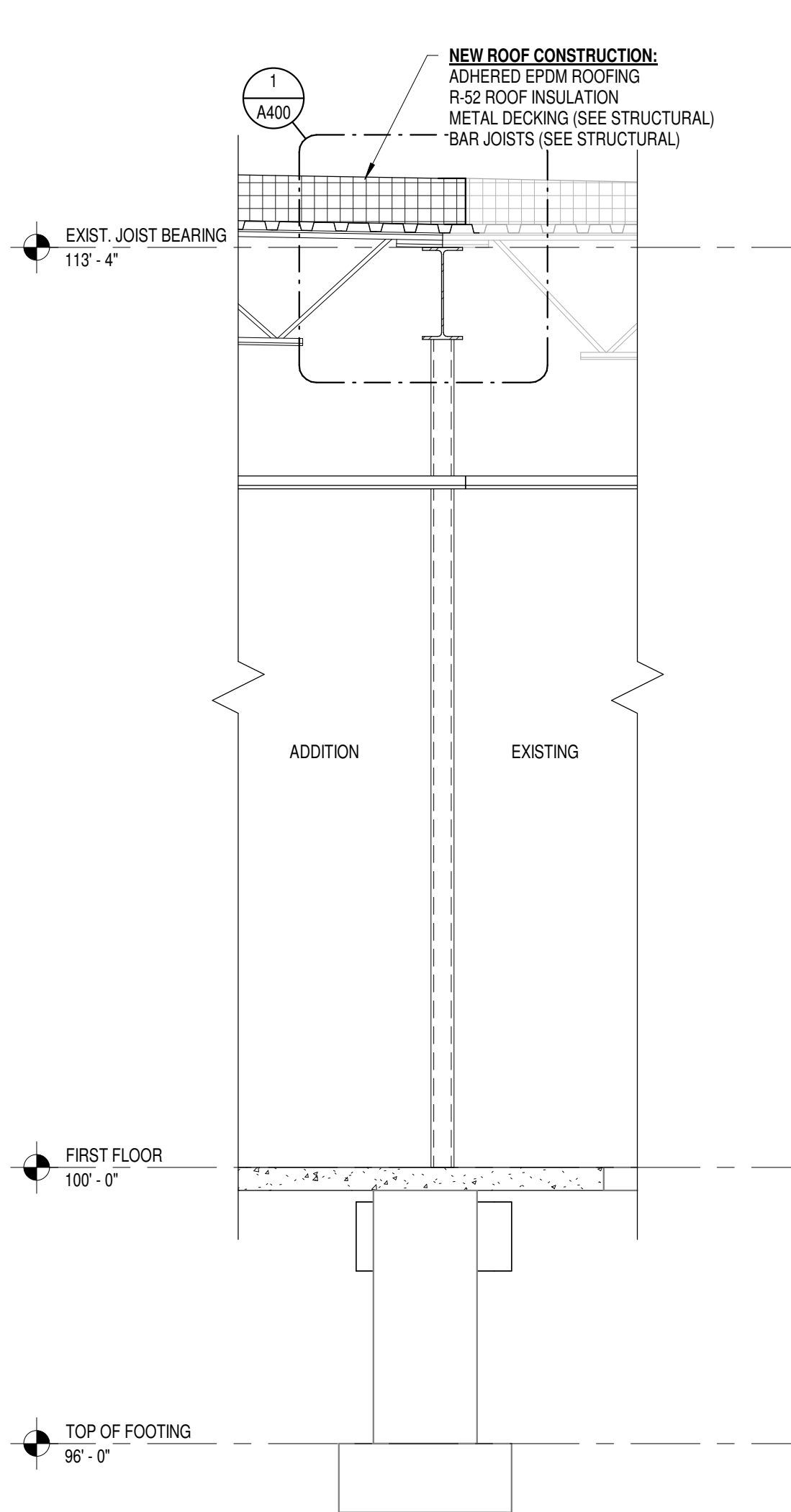
7 WEST ELEVATION
1/8" = 1'-0"



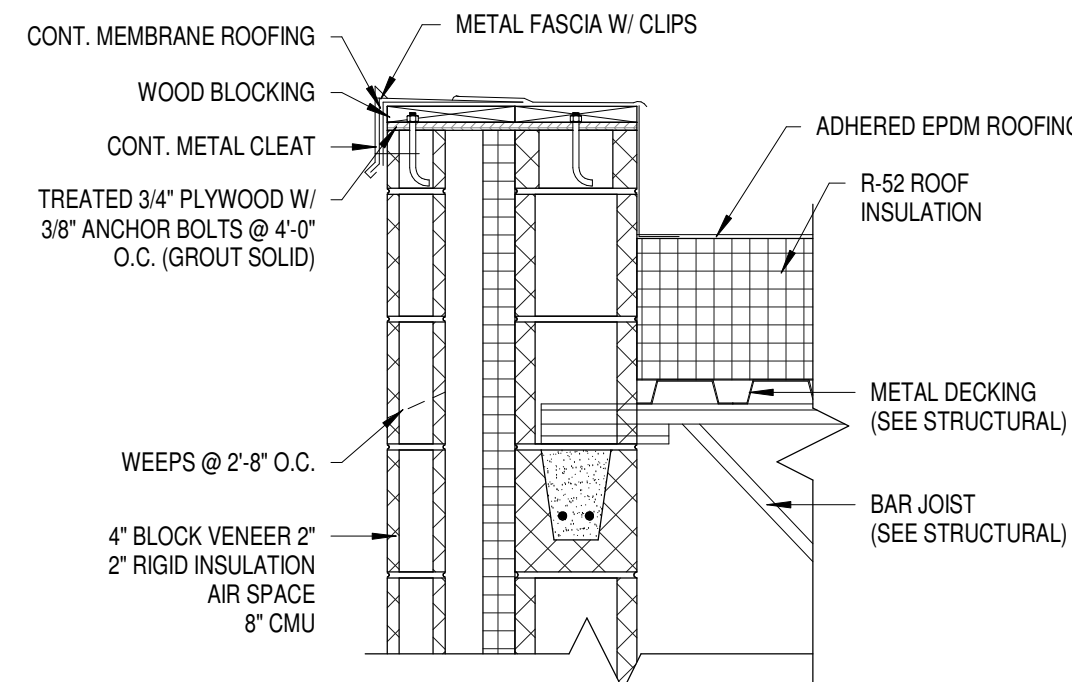
6 BEARING EXTERIOR
1/2" = 1'-0"



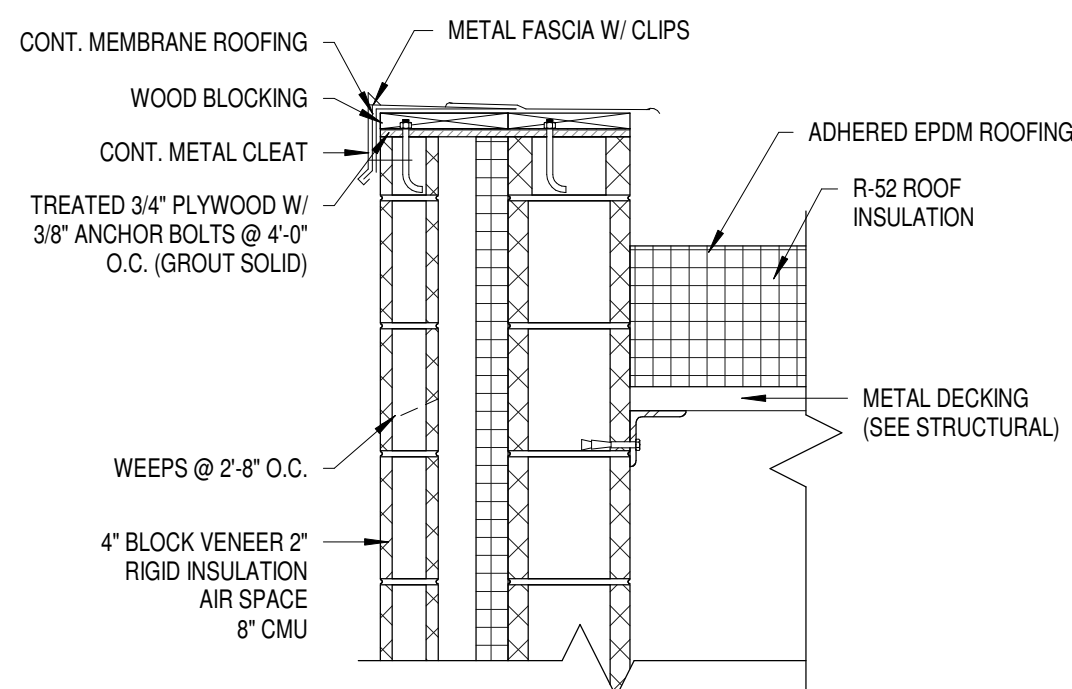
5 NON-BEARING EXTERIOR
1/2" = 1'-0"



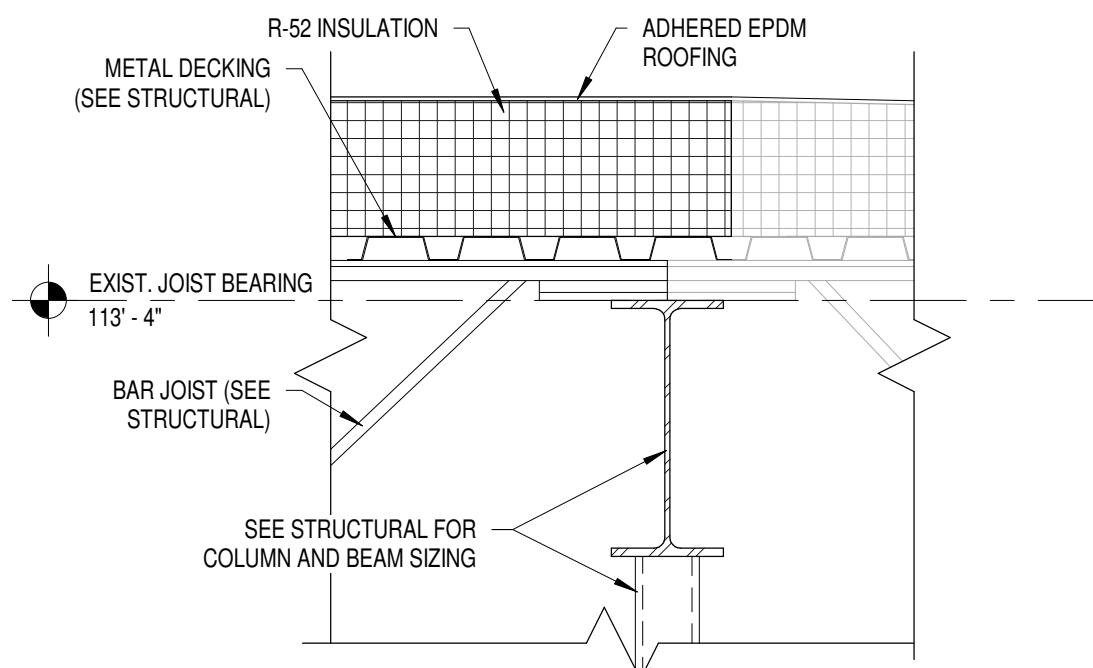
4 BEARING EXISTING/ NEW
1/2" = 1'-0"



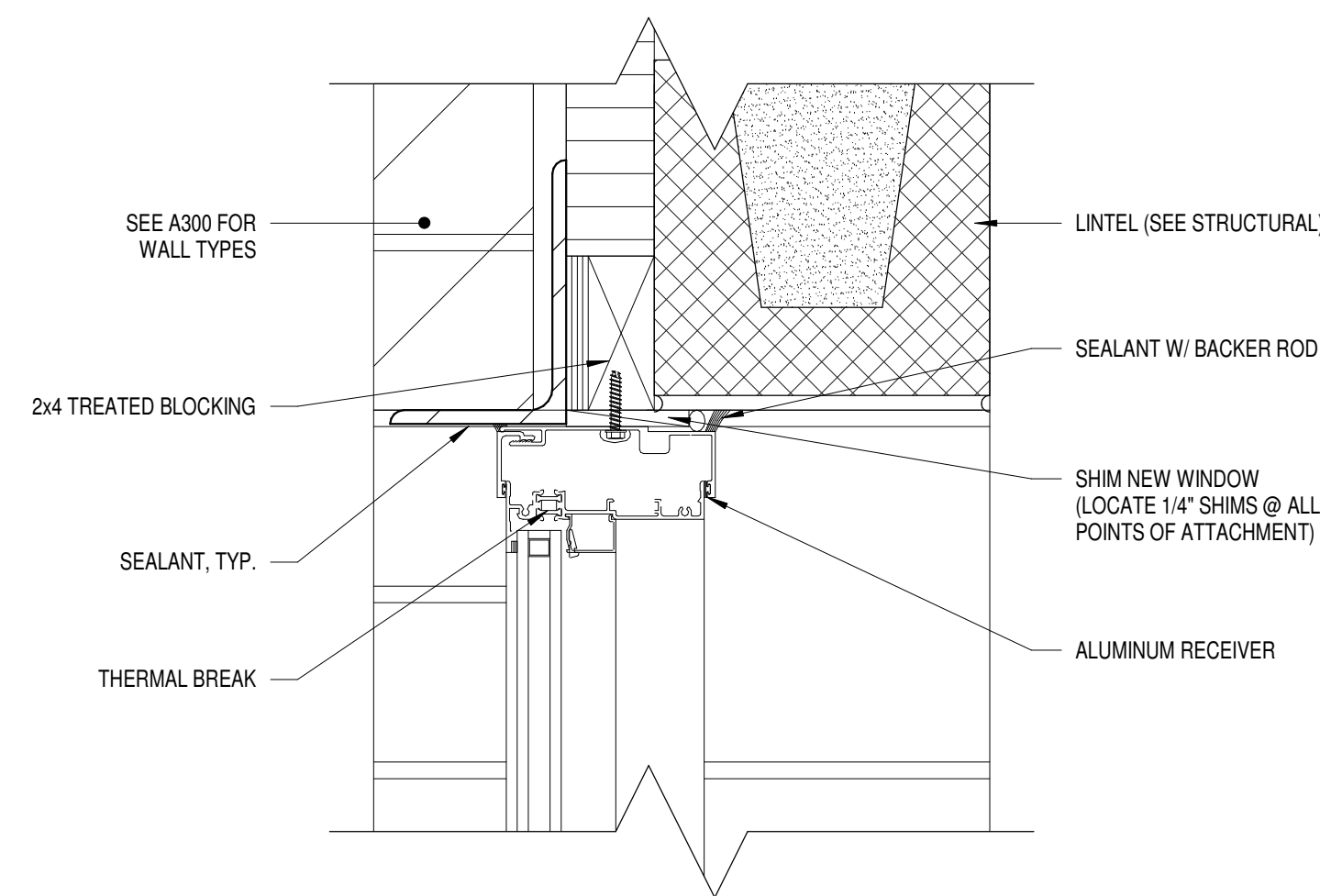
3 ROOF BEARING EDGE DETAIL
1" = 1'-0"



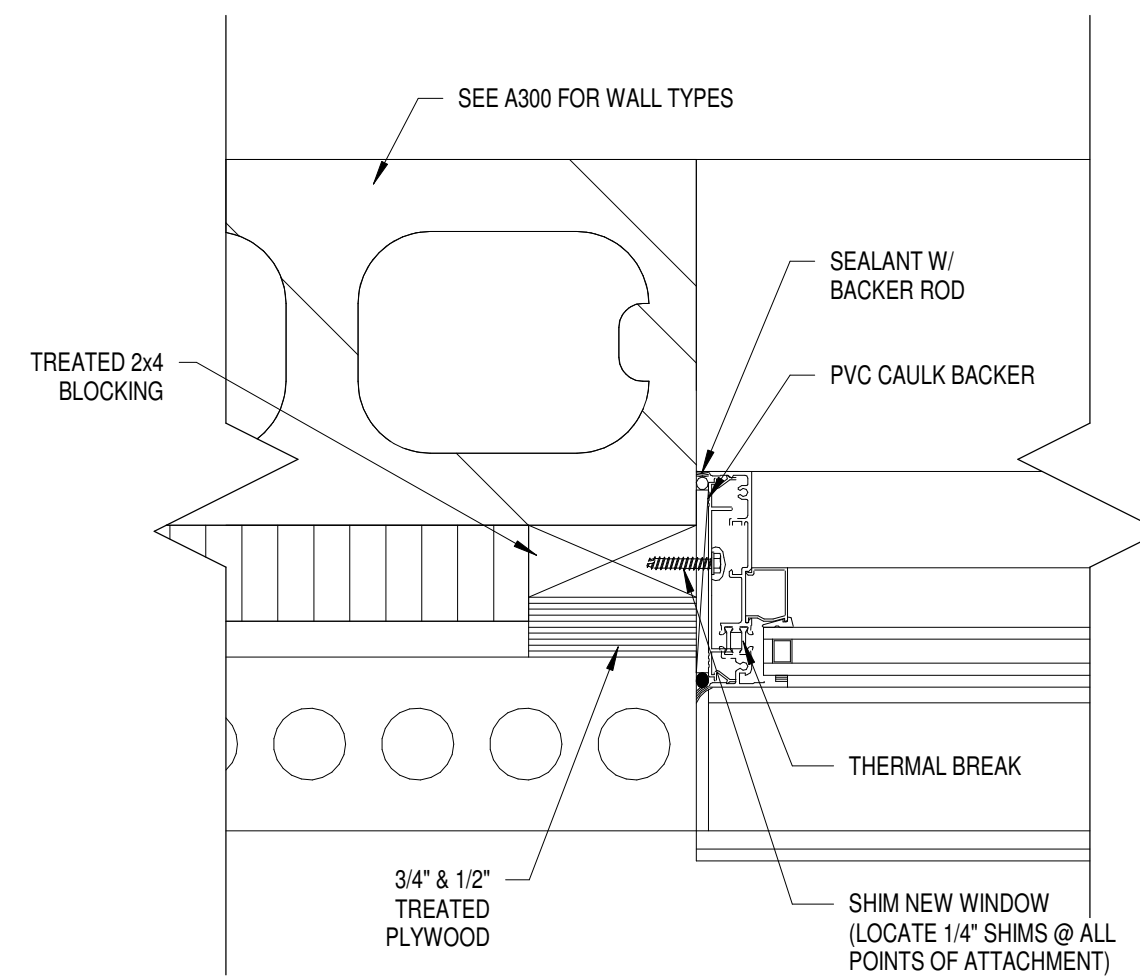
2 ROOF NON-BEARING EDGE DETAIL
1" = 1'-0"



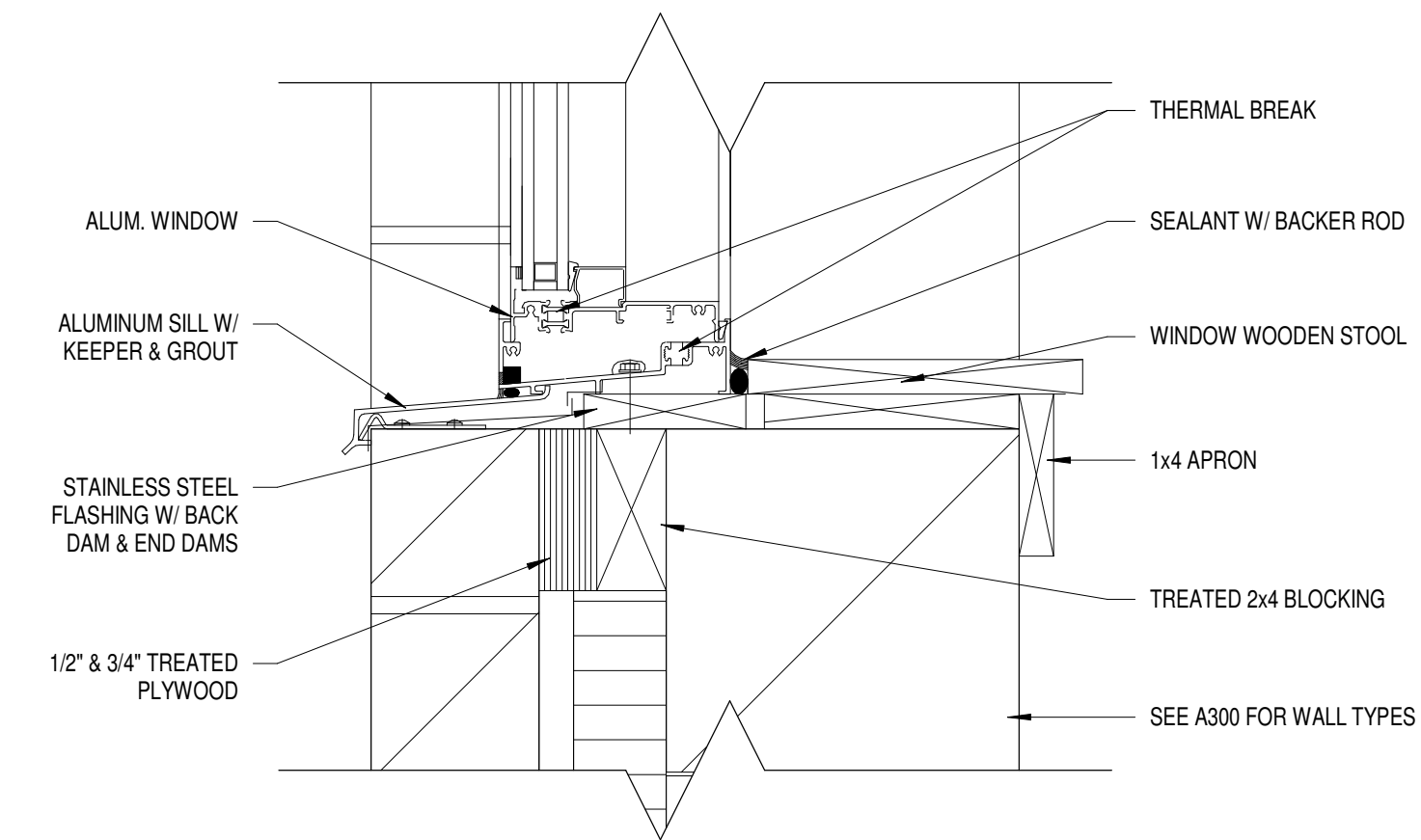
1 ROOF BEARING EXISTING/ NEW
1" = 1'-0"



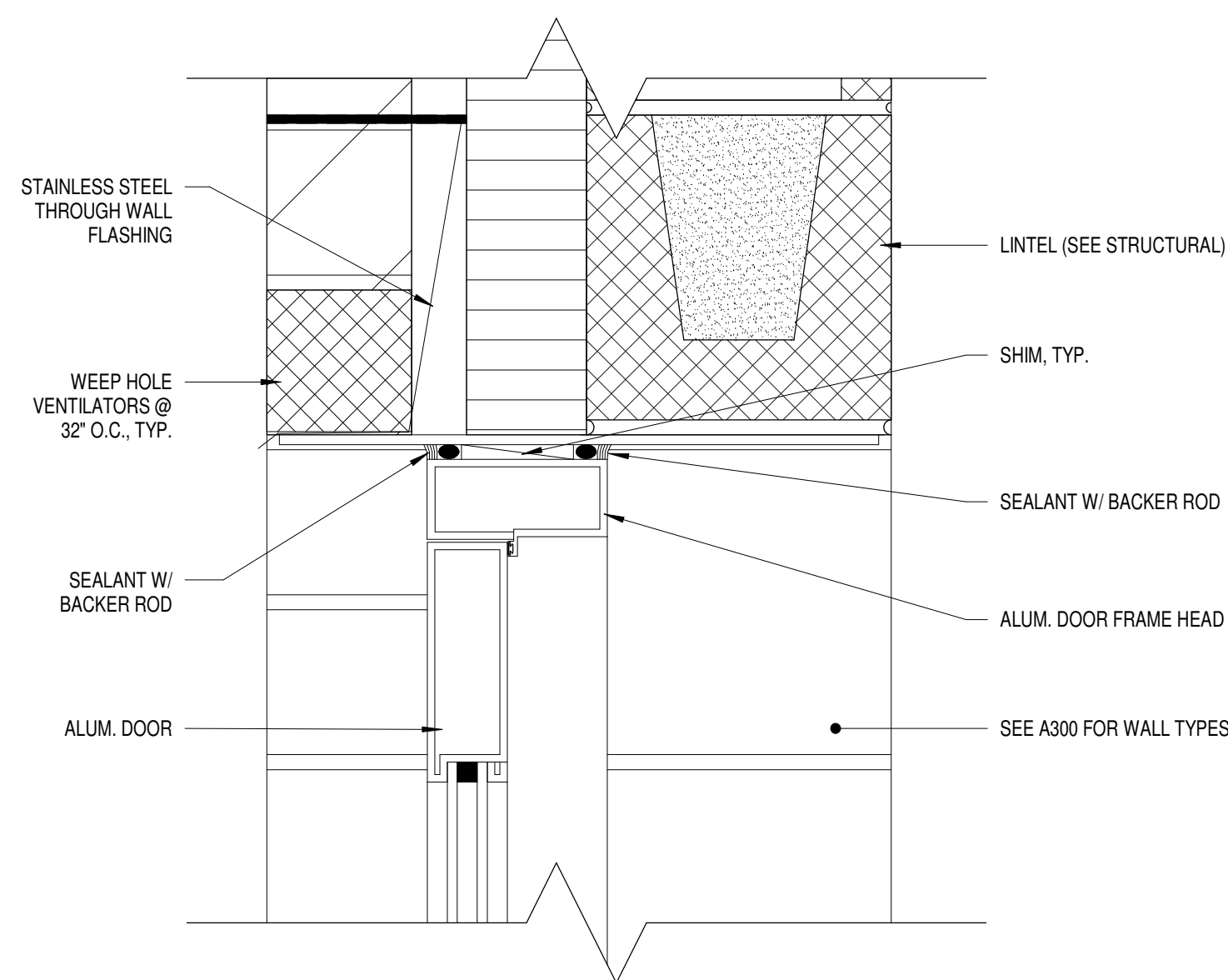
6 ALUM. WDW HEAD



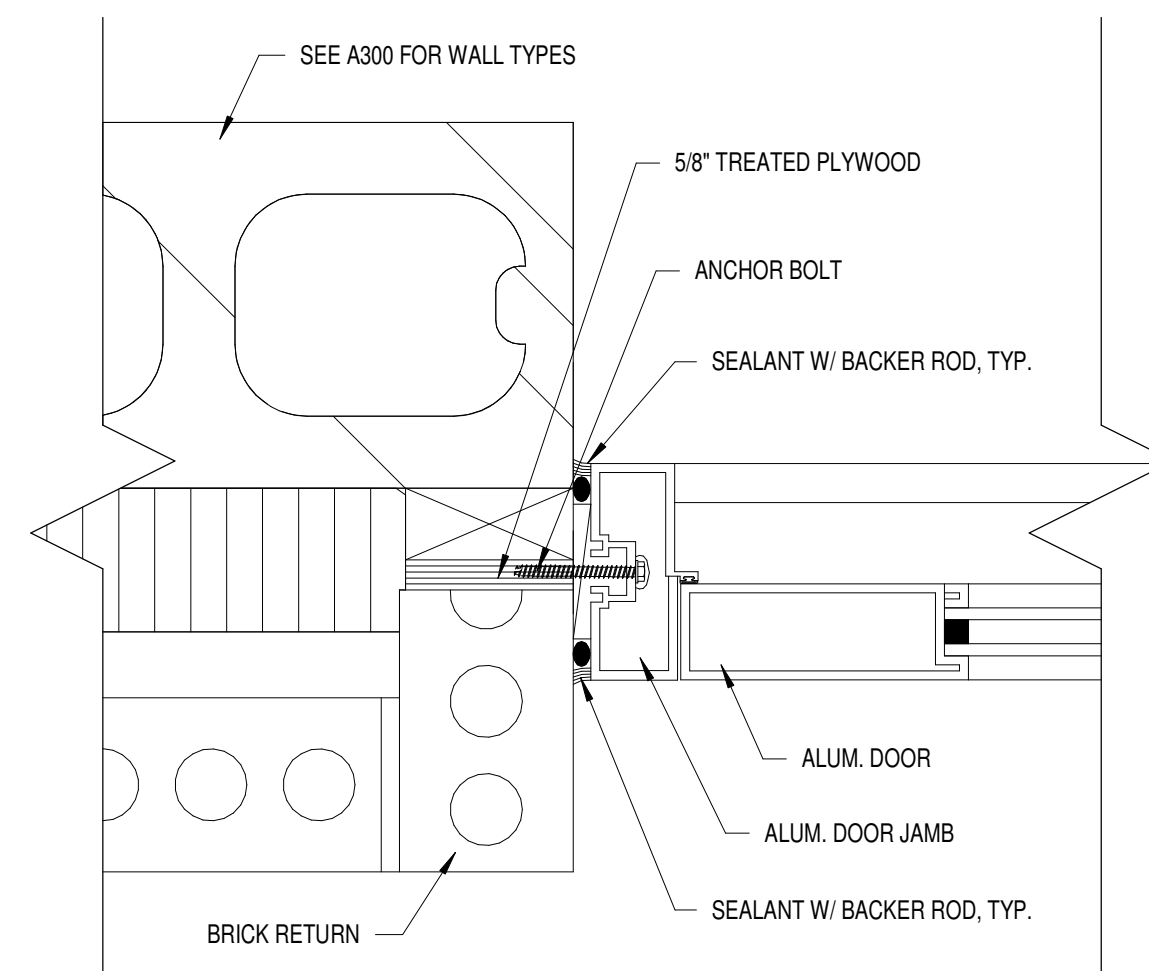
5 ALUM. WDW JAMB
3" = 1'-0"



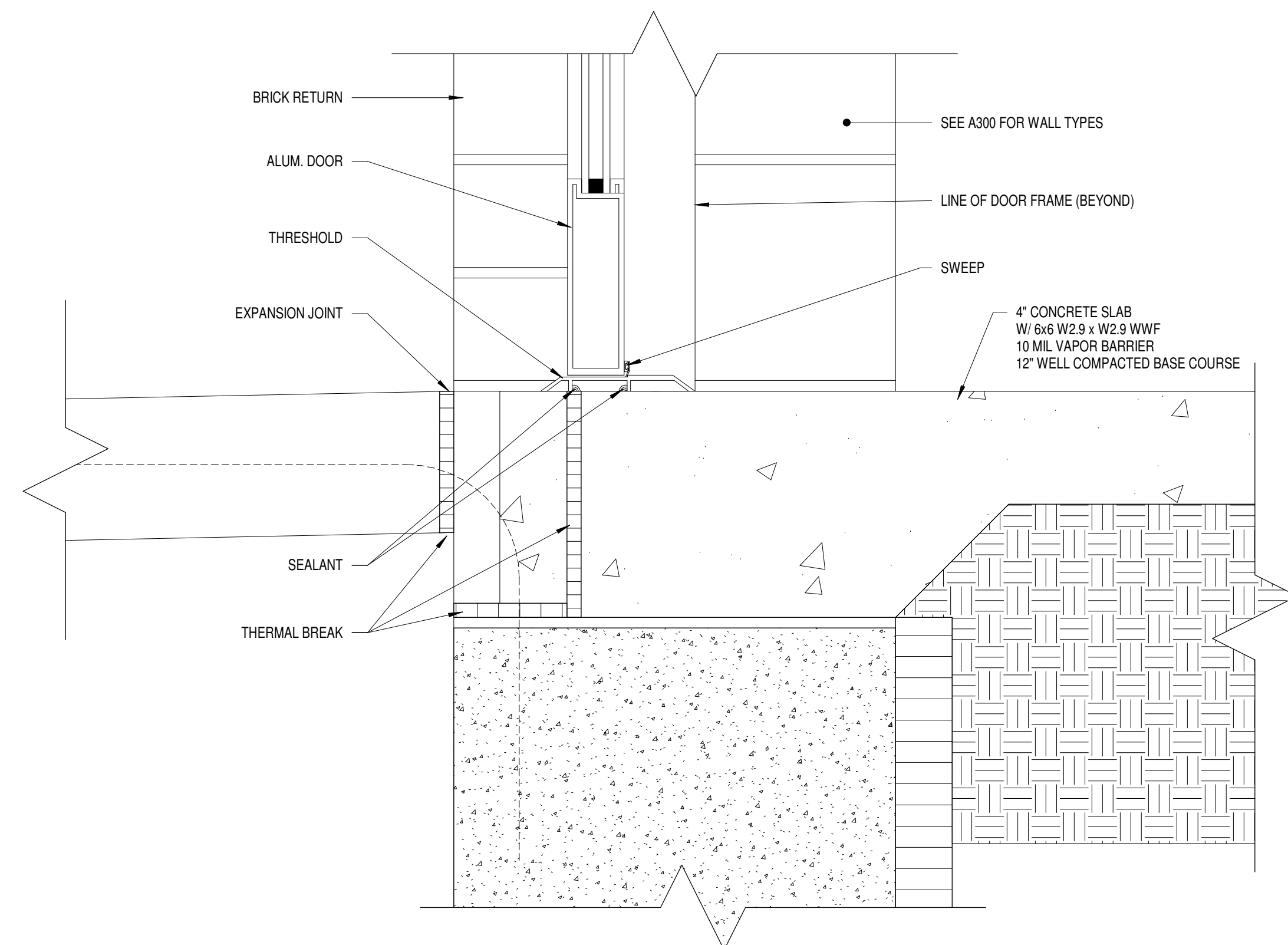
4 ALUM. WDW SILL
3" = 1'-0"



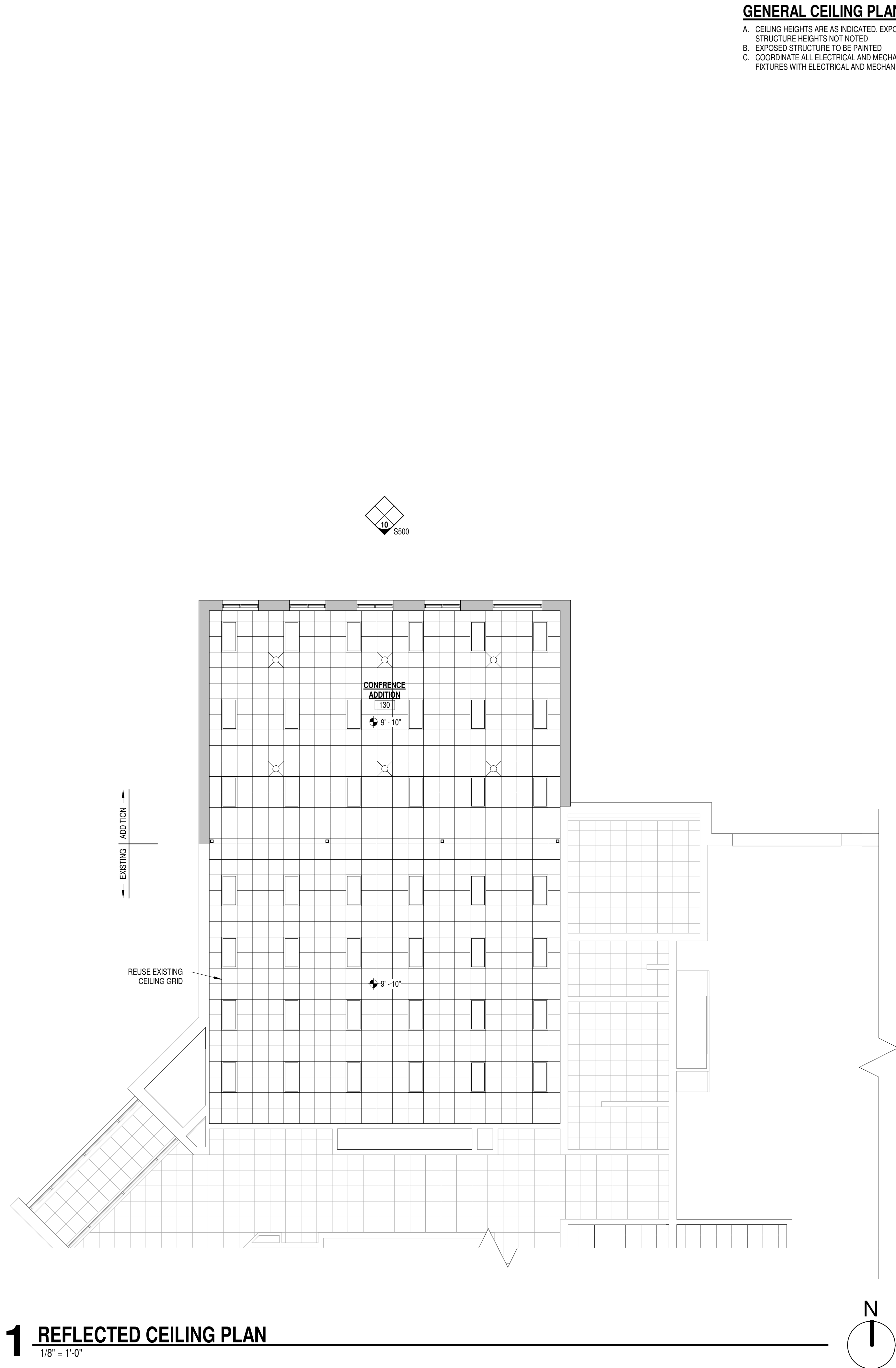
3 EXT. ALUM. DOOR HEAD



2 EXT. ALUM. DOOR JAMB



1 EXT. ALUM. DOOR SILL
3" = 1'-0"



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES
A. CEILING HEIGHTS ARE AS INDICATED. EXPOSED
STRUCTURE HEIGHTS NOT NOTED
B. EXPOSED STRUCTURE TO BE PAINTED
C. COORDINATE ALL ELECTRICAL AND MECHANICAL
FIXTURES WITH ELECTRICAL AND MECHANICAL PLANS

ARCHITECTS
L&P
ENGINEERS

LIEN & PETERSON ARCHITECTS, INC
4675 ROYAL DRIVE
EAU CLAIRE, WI
TELEPHONE
EMAIL

PO BOX 925
54701
715-835-7500
admin@2dlp.com

TOWN OF WASHINGTON

5750 OLD TOWN HALL RD,
EAU CLAIRE, WISCONSIN 54701

PROPOSED REFLECTED
CEILING PLAN

REVISIONS:
NO. DATE

ISSUE DATE:
02/22/2023

A700

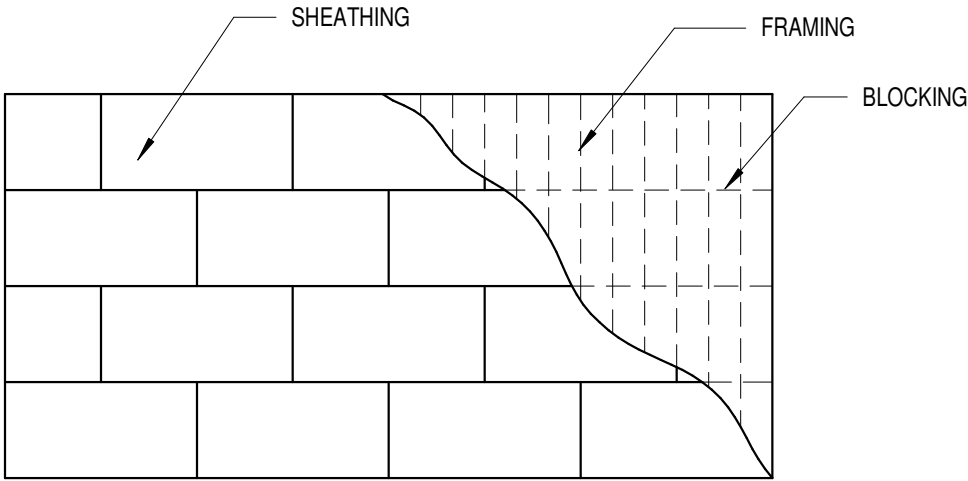
L&P PROJECT # 21090

WOOD FRAME FASTENING SCHEDULE

CONNECTION	FASTENING	LOCATION
JOIST TO SILL OR GIRDER	3-8d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
BRIDGING TO JOIST	2-8d COMMON 2-3"x0.131" NAIL 2-3" 14 GAGE STAPLE	TOE NAIL EACH END
1x6 SUBFLOOR OR LESS TO JOIST	2-8d COMMON	FACE NAIL
WIDER THAN 1X6 SUBFLOOR TO JOIST	2-8d COMMON	FACE NAIL
2' SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	BLIND AND FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" C-C 3"x0.131" NAIL @ 8" C-C 3" 14 GAGE STAPLE @ 12" C-C	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-16d @ 16" C-C 3"x0.131" NAIL @ 16" C-C 3" 14 GAGE STAPLE @ 16" C-C	BRACED WALL PANELS
TOP PLATE TO STUD	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	END NAIL
STUD TO SOLE PLATE	4-8d COMMON 4-3"x0.131" NAIL 3-3" 14 GAGE STAPLE 2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL END NAIL
DOUBLE STUDS	16d @ 24" C-C 3"x0.131" NAIL @ 8" C-C 3" 14 GAGE STAPLE @ 8" C-C	FACE NAIL
DOUBLE TOP PLATES (STAGGER JOINTS 4'-0") DOUBLE TOP PLATES (STAGGER JOINTS 4'-0")	16d @ 24" C-C 3"x0.131" NAIL @ 8" C-C 3" 14 GAGE STAPLE @ 8" C-C 8-16d COMMON 12-3"x0.131" NAIL 12-3" 14 GAGE STAPLE	TYPICAL FACE NAIL LAP SPLICE
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
RIM JOIST TO TOP PLATE	8d @ 6" C-C 3"x0.131" NAIL @ 6" C-C 3" 14 GAGE STAPLE @ 6" C-C	TOE NAIL
TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL
CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" C-C ALONG EDGE
CEILING JOISTS TO PLATE	3-8d COMMON 5-3"x0.131" NAIL 5-3" 14 GAGE STAPLE	TOE NAIL
CONTINUOUS HEADER TO STUD	4-8d COMMON	TOE NAIL
CEILING JOISTS, LAPS OVER PARTITIONS	3-16d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	3-16d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
RAFTER TO PLATE	3-8d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON 2-3"x0.131" NAIL 2-3" 14 GAGE STAPLE	FACE NAIL
1x8 SHEATHING TO EACH BEARING WALL	2-8d COMMON	FACE NAIL
WIDER THAN 1x8 SHEATHING TO EACH BEARING WALL	3-8d COMMON	FACE NAIL
BUILT-UP CORNER STUDS	16d COMMON 3"x0.131" NAIL 3" 14 GAGE STAPLE	24" C-C 16" C-C 16" C-C
BUILT-UP GIRDER AND BEAMS	20d COMMON @ 32" C-C 3"x0.131" NAIL AT 24" C-C 3" 14 GAGE STAPLE @ 24" C-C 2-20d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT END AND AT EACH SPLICE
2" PLANKS	16d COMMON	AT EACH BEARING
COLLAR TIE TO RAFTER	3-10d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
JACK RAFTER TO HIP	3-10d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE 2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL FACE NAIL
ROOF RAFTER TO 2x RIDGE BEAM	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE 2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL FACE NAIL

WOOD FRAME FASTENING SCHEDULE

CONNECTION	FASTENING	LOCATION
JOIST TO BAND JOIST	3-16d COMMON 5-3"x0.131" NAIL 5-3" 14 GAGE STAPLE	FACE NAIL
LEDGER STRIP	3-16d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
WOOD STRUCTURAL PANELS AND PARTICLEBOARD: SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING	1/2" AND LESS 19/32" TO 3/4" 7/8" TO 1" 1 1/8" TO 1 1/4" 3/4" OR LESS 7/8" TO 1" 1 1/8" TO 1 1/4"	6d 2.375"x0.113" NAIL 1.75" 16 GAGE STAPLE 8d OR 6d 2.375"x0.113" NAIL 2" 16 GAGE STAPLE 8d 10d OR 8d 6d 8d 10d OR 8d
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)		
PANEL SIDING TO FRAMING	1/2" OR LESS 5/8"	6d 8d
FIBERBOARD SHEATHING	1/2" 25/32"	#11 GAGE ROOFING NAIL 6d COMMON NAIL # 16 GAGE STAPLE #11 GAGE ROOFING NAIL 8d COMMON NAIL # 16 GAGE STAPLE
INTERIOR PANELING	1/4" 3/8"	4d 6d



SHEATHING ORIENTATION

DESIGN AND LOAD DATA

DESIGN SPECIFICATIONS
WISCONSIN ENROLLED COMMERCIAL BUILDING CODE
CURRENT EDITION WITH SUBSEQUENT REVISIONS

DESIGN LOAD INFORMATION

DEAD LOADS
ROOF DEAD LOAD - 15 PSF

LIVE LOADS
ROOF LIVE LOAD - 20 PSF

SNOW LOAD (EAU CLAIRE COUNTY)
GROUND SNOW LOAD - 50 PSF
THERMAL FACTOR - 1.0
EXPOSURE FACTOR - 1.0
IMPORTANCE FACTOR - 1.0
ROOF SNOW LOAD - 35 PSF

SNOW DRIFT
L_d = 190.25'
L_d = 46.5'
h_d = 4.566'
w = 18.27
S_d = 93.61 PSF @ PEAK

WIND LOAD
BASIC WIND SPEED - 115 MPH
IMPORTANCE CATEGORY - II
EXPOSURE CATEGORY - C
BUILDING CATEGORY - ENCLOSED
USE ASCE 7-10 SIMPLIFIED LOADS

SEISMIC LOADS
SEISMIC DESIGN CATEGORY A

SOIL DESIGN INFORMATION

SOIL DATA
ALLOWABLE BEARING CAPACITY - 2000 PSF (ASSUMED)

MATERIAL REQUIREMENTS

ROOF DECK
1.5B22 METAL DECK
36/3 FASTENING PATTERN
5/8" PUDDLE WELD OR #12 TEK SCREWS @ SUPPORTS
WELDED SIDELAPS OR #10 TEK SCREWS @ SIDELAP

MASONRY
F_m = 2500 PSI MINIMUM
BLOCK F_{cmu} = 3250 PSI OR GREATER
GROUT F_g = 2500 PSI OR GREATER
TYPE S MORTAR
GRADE 60 MORTAR

GENERAL NOTES

- THE CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN STRICT ACCORDANCE WITH SAFETY REQUIREMENTS IMPOSED BY THE OWNER AND OSHA. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE OWNER'S PROPERTY AND DISPOSE OF ACCORDING TO LOCAL REGULATIONS.
- THIS STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES; AND TO INSURE THE STABILITY OF THE STRUCTURE AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTORS PROPERTY.
- SAFETY: IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- ENGINEERING DRAWINGS: ALL DEVIATIONS FROM THE ENGINEERING DRAWINGS SHALL BE SUBMITTED IN WRITTEN FORM TO THE OWNER OR THEIR REPRESENTATIVE FOR APPROVAL.
- EXISTING UTILITIES AND ALL OTHER OBSTRUCTIONS TO WORK SHALL BE TEMPORARILY REMOVED BY THE CONTRACTOR AND REINSTALLED (INCLUDING NECESSARY MODIFICATIONS) BY THE CONTRACTOR AFTER COMPLETION OF WORK.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER OR THEIR REPRESENTATIVE. BEFORE SHOP WORK IS PERMITTED TO COMMENCE. ALL DEVIATIONS FROM THE ENGINEERING DRAWINGS SHALL BE CIRCLED AND NOTED ON THE SHOP DRAWINGS.
- DIMENSIONS PERTAINING TO EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY FABRICATION, CONSTRUCTION, OR ERECTION.
- EXCAVATION SHALL PROCEED WITH CARE TO AVOID DAMAGE TO UNKNOWN UNDERGROUND SERVICES.
- BACKFILL SHALL BE GRANULAR MATERIAL, FREE FROM CLAY, LOAM, OR PERISHABLE MATERIALS. THE APPROVED GRANULAR FILL MATERIAL SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO 95% MODIFIED PROCTOR.

FOUNDATIONS

- FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.

STRUCTURAL STEEL

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS.
- ROLLED WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 WITH A MINIMUM YIELD STRESS (F_y) OF 50,000 PSI. ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM A36 WITH A MINIMUM YIELD STRESS (F_y) OF 36,000 PSI. CIRCULAR PIPE SHALL CONFORM TO ASTM A53, GRADE B, WITH A MINIMUM YIELD STRESS (F_y) OF 35,000 PSI. SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500, GRADE B, WITH A MINIMUM YIELD STRESS (F_y) OF 46,000 PSI.
- SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- STRUCTURAL STEEL SHALL BE NEW UNLESS OTHERWISE NOTED, AND SHALL BE PAINTED WITH ONE COAT OF APPROVED PRIMER AND APPROVED FINISH COAT AS DIRECTED BY THE OWNER.
- BOLTS SHALL CONFORM TO ASTM A325X WITH ASTM A563 NUTS. BOLTS SHALL BE TIGHTENED BY THE TURN-OF-THE-NUT METHOD, AND SHALL HAVE A HARDENED STEEL WASHER, ASTM F436, UNDER THE TURNED ELEMENT.
- WELDING SHALL CONFORM TO THE CURRENT AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". WELDING ELECTRODES SHALL BE E70XX.
- WELDS SHALL BE MADE ONLY BY CERTIFIED WELDERS AND WELDING OPERATORS WHO HAVE BEEN PREVIOUSLY QUALIFIED BY TESTS AS PRESCRIBED IN THE CURRENT AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". PROOF OF CERTIFICATION SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL BEFORE ANY WELDING IS PERMITTED TO BEGIN.
- WELDING OF STAINLESS STEEL TO BE PERFORMED USING STAINLESS RODS AND WELDING PROCEDURES.
- ANCHOR BOLTS FOR COLUMNS SHALL CONFORM TO ASTM A307. ANCHOR BOLTS FOR MACHINES SHALL CONFORM TO ASTM A325. ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE METHOD, OR AN APPROVED EQUIVALENT METHOD.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

- ALL CONCRETE TO BE NORMAL WEIGHT, WITH AGGREGATES CONFORMING TO ASTM C33.
- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY COMPRESSIVE STRENGTH (F_c):

FLOOR SLABS - 4000 PSI
FOUNDATIONS - 4000 PSI
- CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE. OTHER ADMIXTURES SHALL CONFORM TO ASTM C494.
- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO A615, A616, OR A617, GRADE 60, WITH MINIMUM YIELD STRESS (F_y) OF 60,000 PSI. THE MINIMUM LAP FOR SPLICES SHALL BE 3'-6".
- CONCRETE COVER ON ALL REINFORCING SHALL BE 3" UNLESS OTHERWISE NOTED.
- MAXIMUM SLUMP SHALL BE 4"±" AS DETERMINED IN ACCORDANCE WITH ASTM C143.
- CONCRETE FINISH:

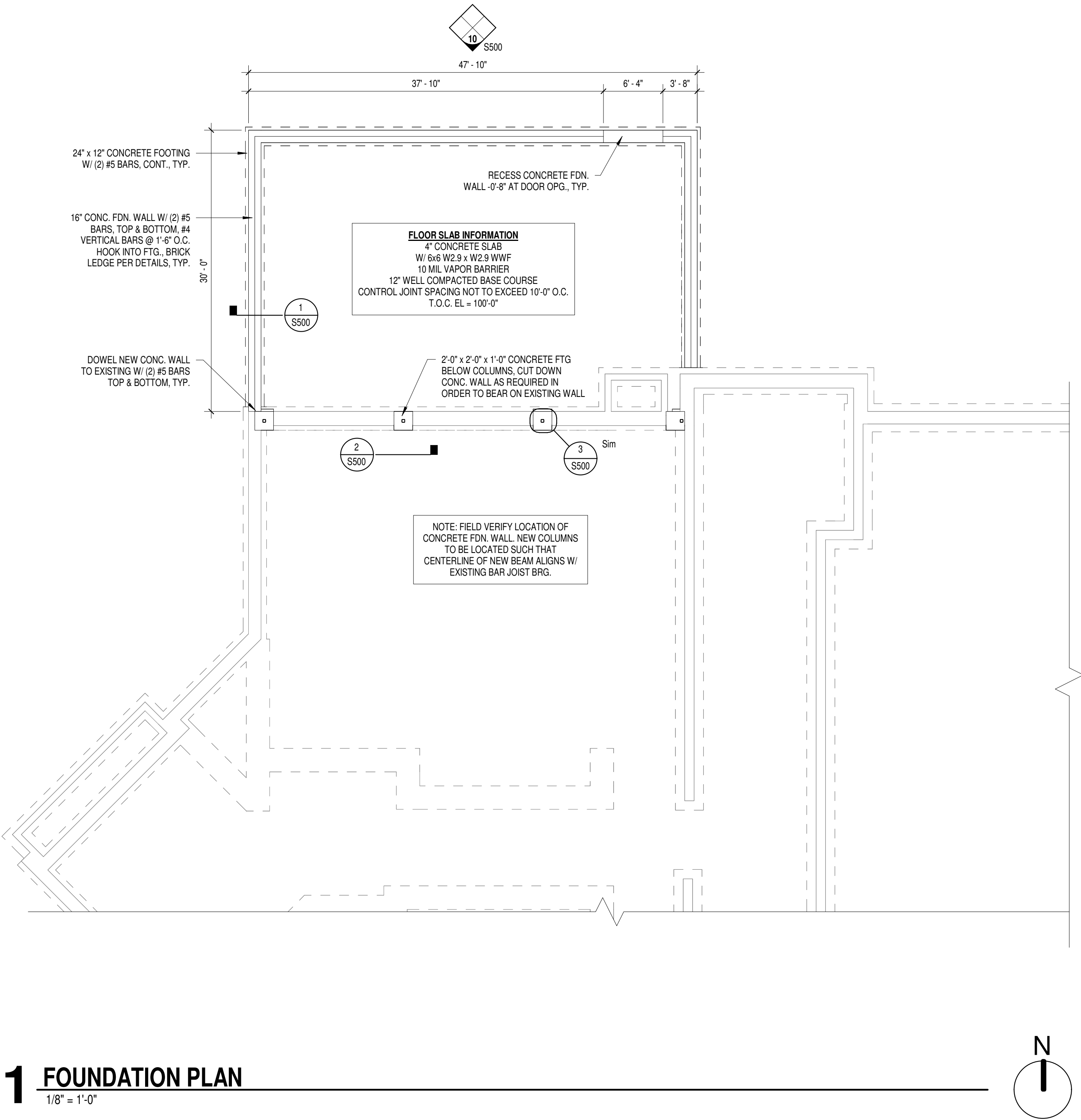
FLOOR SLABS - HARD TROWELED FINISH
PAVING SLABS - FLOAT/BROOM FINISH
- ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 6%±.
- CONTRACTOR TO ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS. TESTING AGENCY TO CONFIRM THAT NOTED MATERIAL REQUIREMENTS ARE MET.

REVISIONS:
NO. DATE

ISSUE DATE:

02/22/2023

S100



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ENGINEERS

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FOUNDATION PLAN

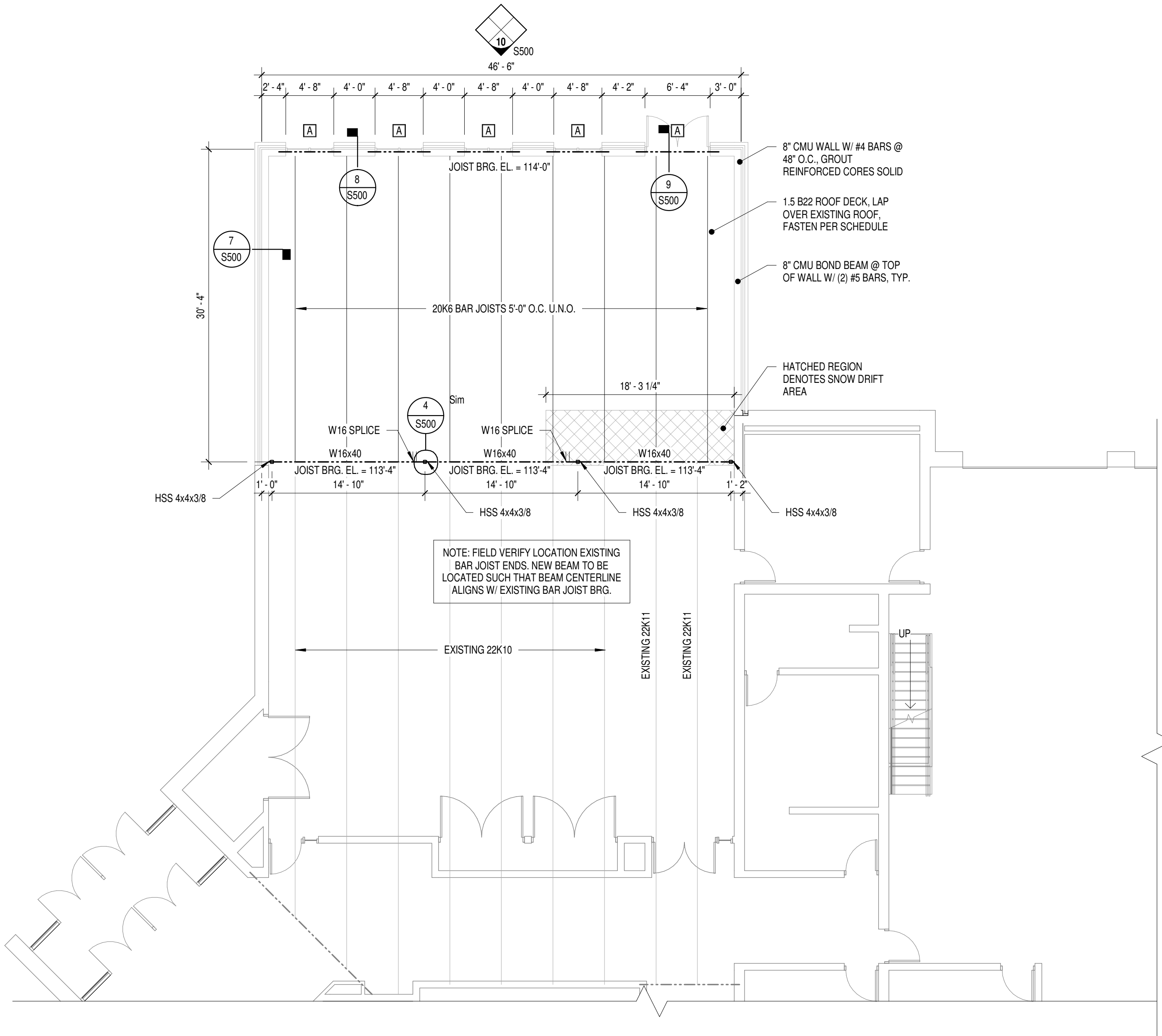
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NO.	DATE

ISSUE DATE:
02/22/2023

S200

L&P PROJECT # 21090

LINTEL SCHEDULE	
A	8"x16" CMU LINTEL W/ (2) #5 BARS TOP AND BOTTOM, 16" BRG. EACH END., GROUT SOLID BELOW BRG., TYP.
NOTE: AT ALL DOOR AND WINDOW OPENINGS IN MASONRY, PROVIDE #5 VERTICAL BARS IN ADJACENT CORE, EXTEND BAR 24" ABOVE DOOR HEAD, TYPICAL. AT MASONRY COURSE BELOW WINDOWS, PROVIDE #5 HORIZONTAL BARS, EXTEND BAR 24" BEYOND WINDOW EDGE, TYPICAL AT ALL WINDOW OPENINGS.	



1 ROOF FRAMING - ADDITION

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ROOF FRAMING PLAN

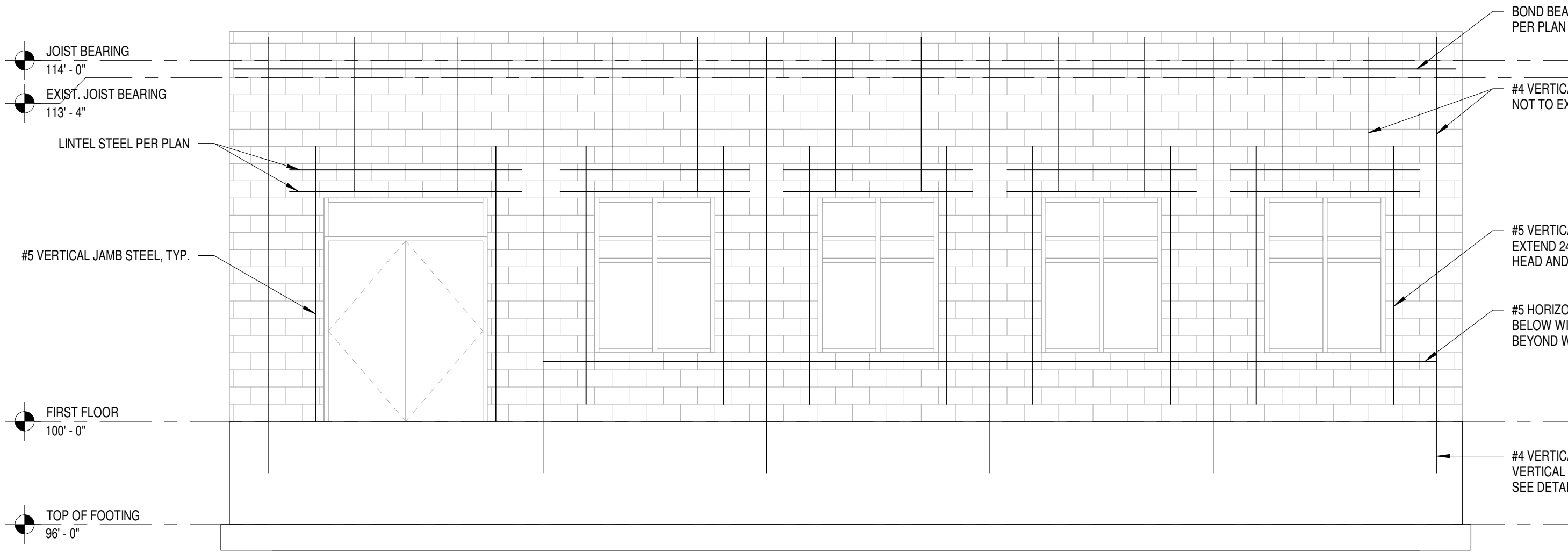
REVISIONS:
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ISSUE DATE:
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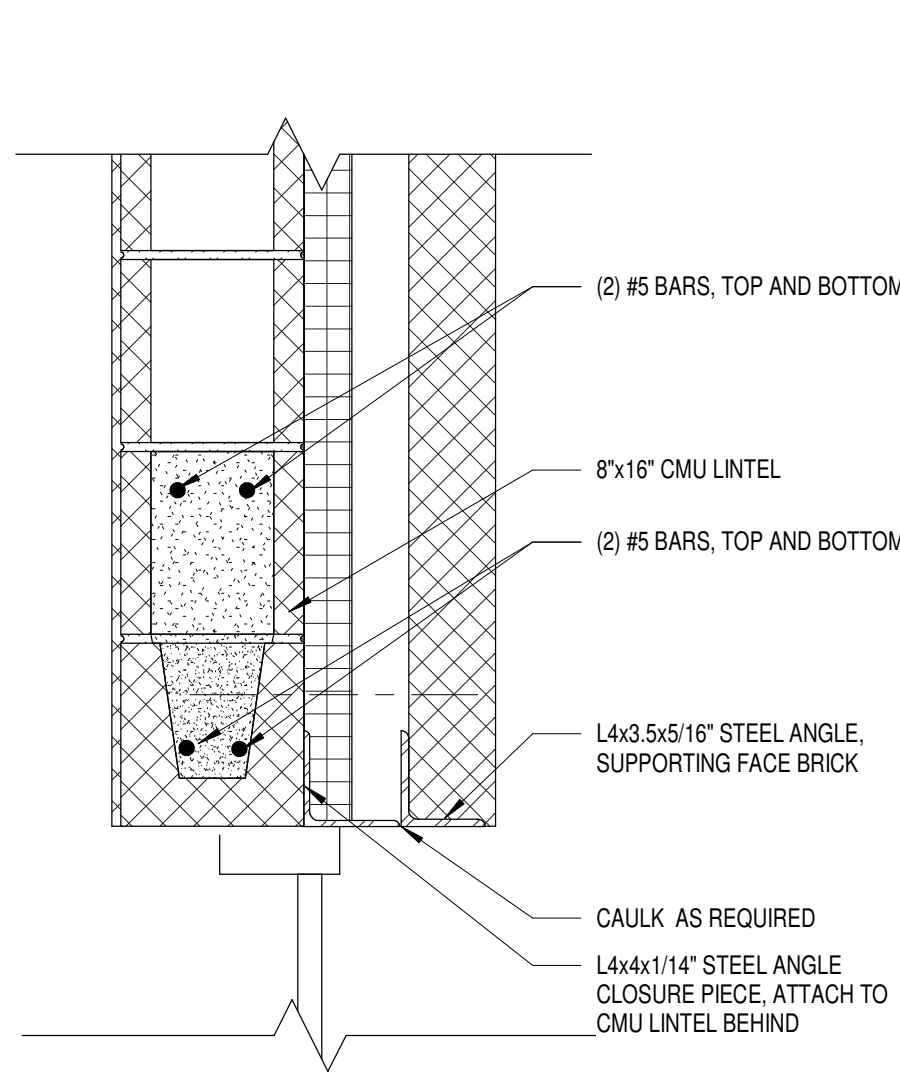
L&P PROJECT # 21090

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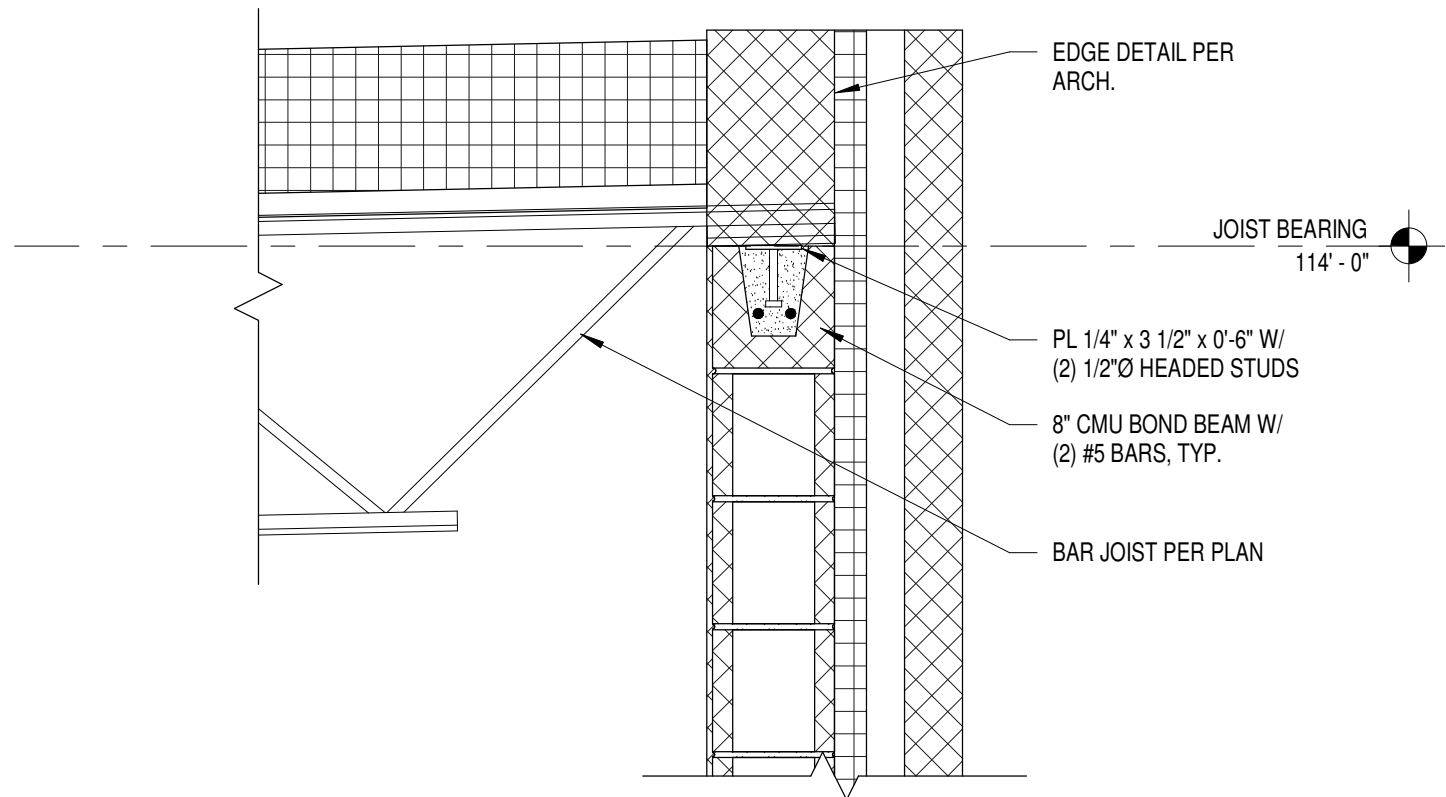
10 NORTHERN WALL REINFORCEMENT LAYOUT

1/4" = 1'-0"



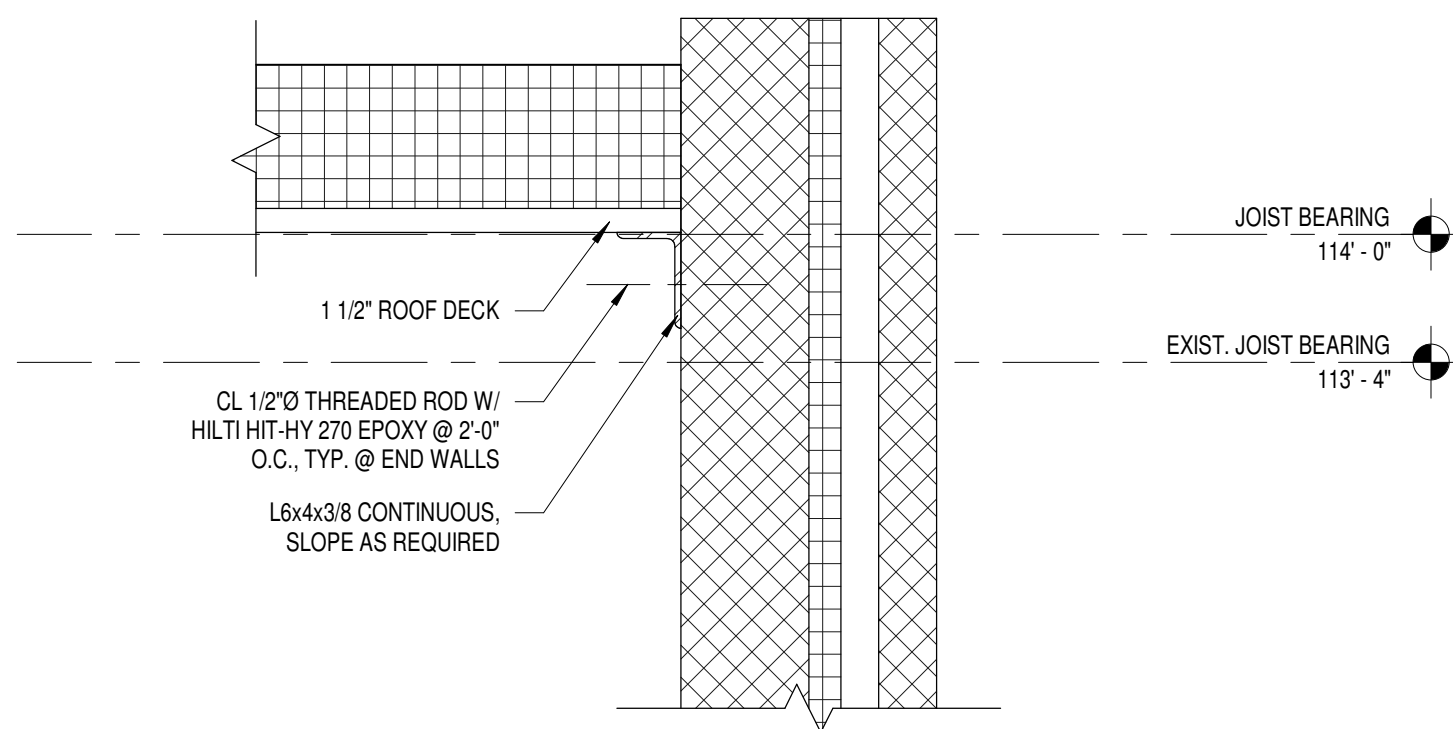
9 CMU LINTEL

1 1/2" = 1'-0"



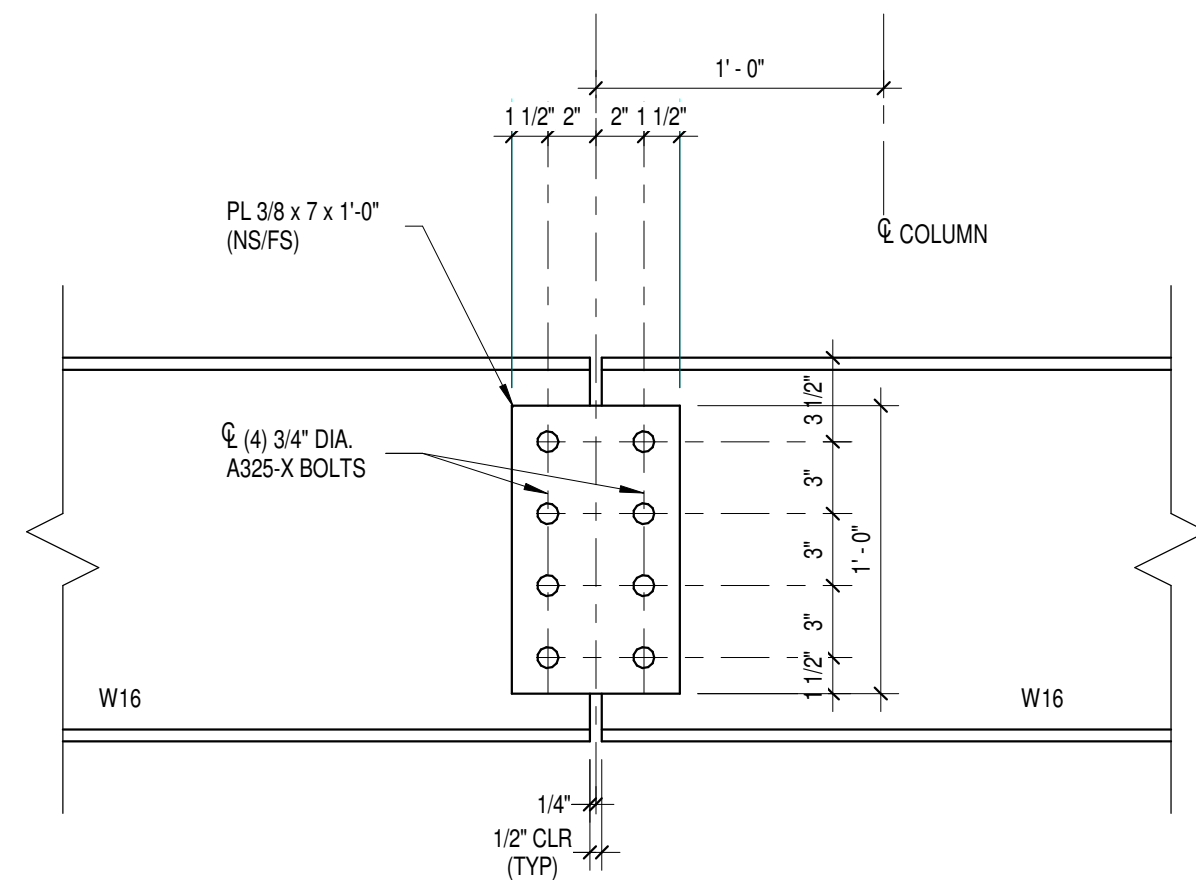
8 JOIST BEARING

1" = 1'-0"



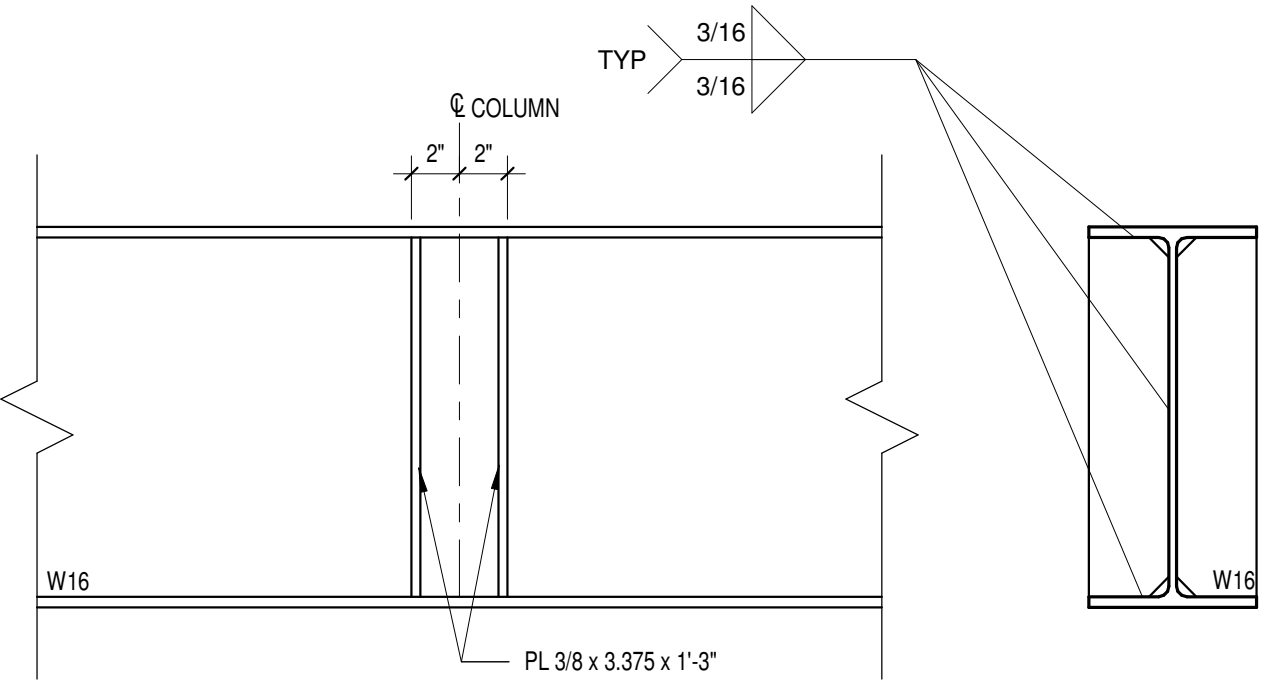
7 ROOF EDGE SUPPORT

1" = 1'-0"



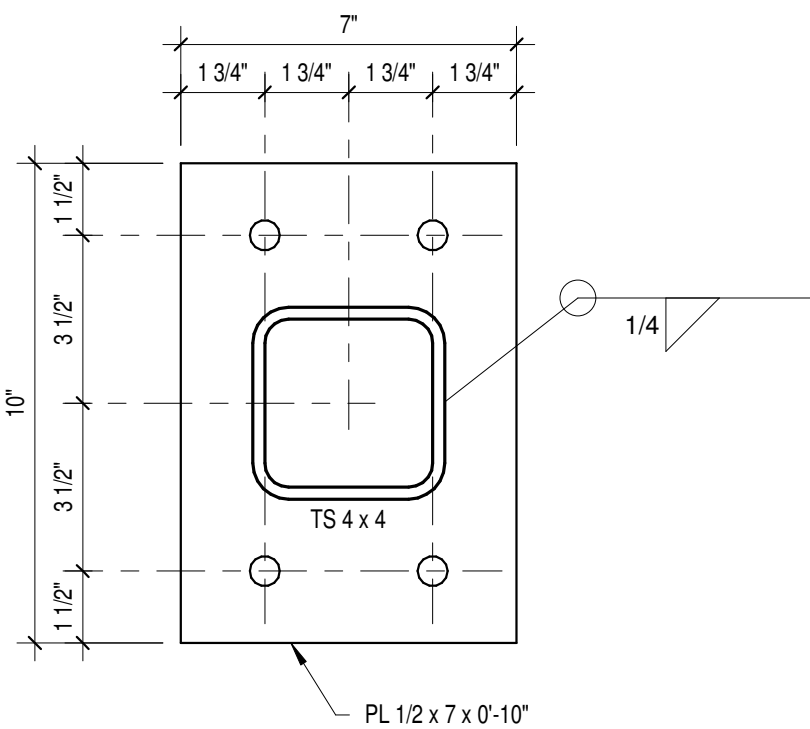
6 W16 SPLICE DETAIL

1 1/2" = 1'-0"



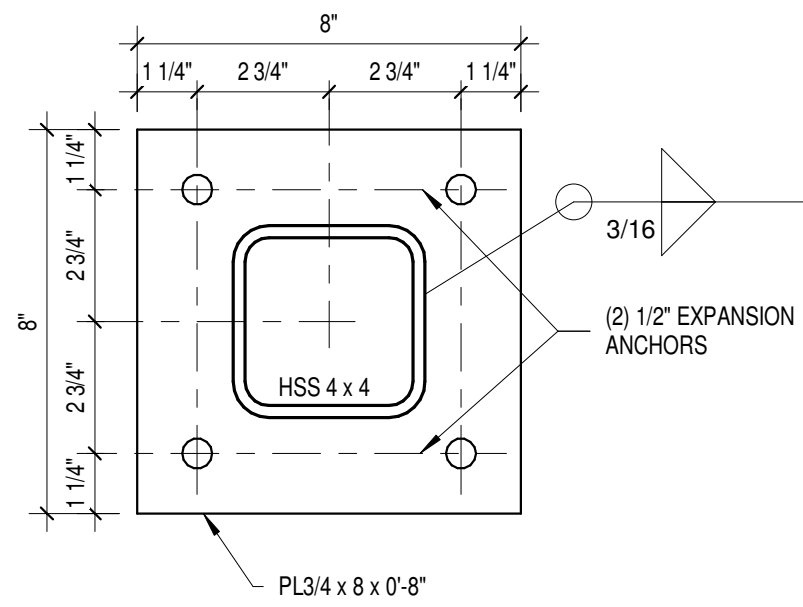
5 W16 STIFFENER DETAIL

1 1/2" = 1'-0"



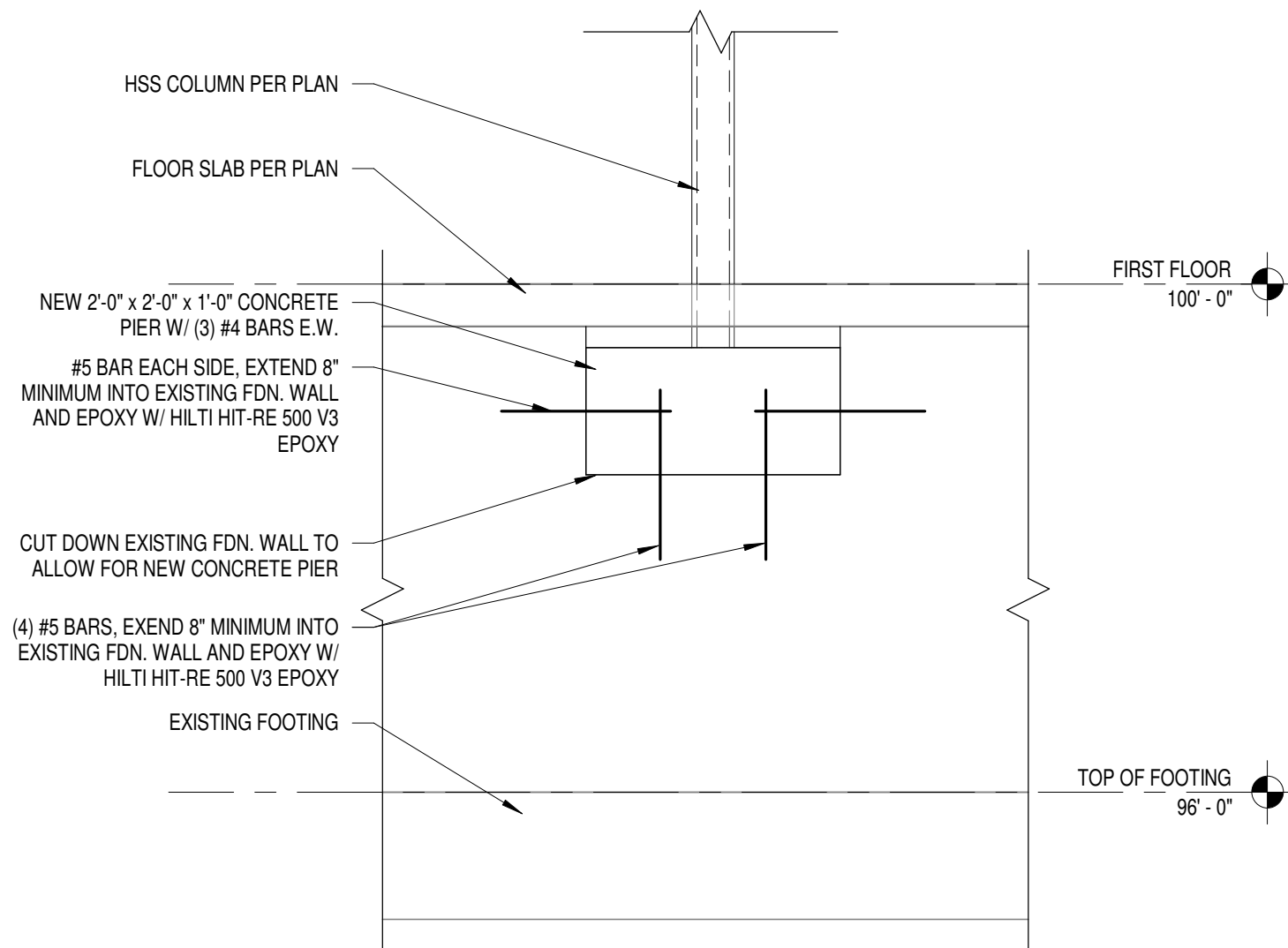
4 HSS4x4 CAP PLATE

3" = 1'-0"



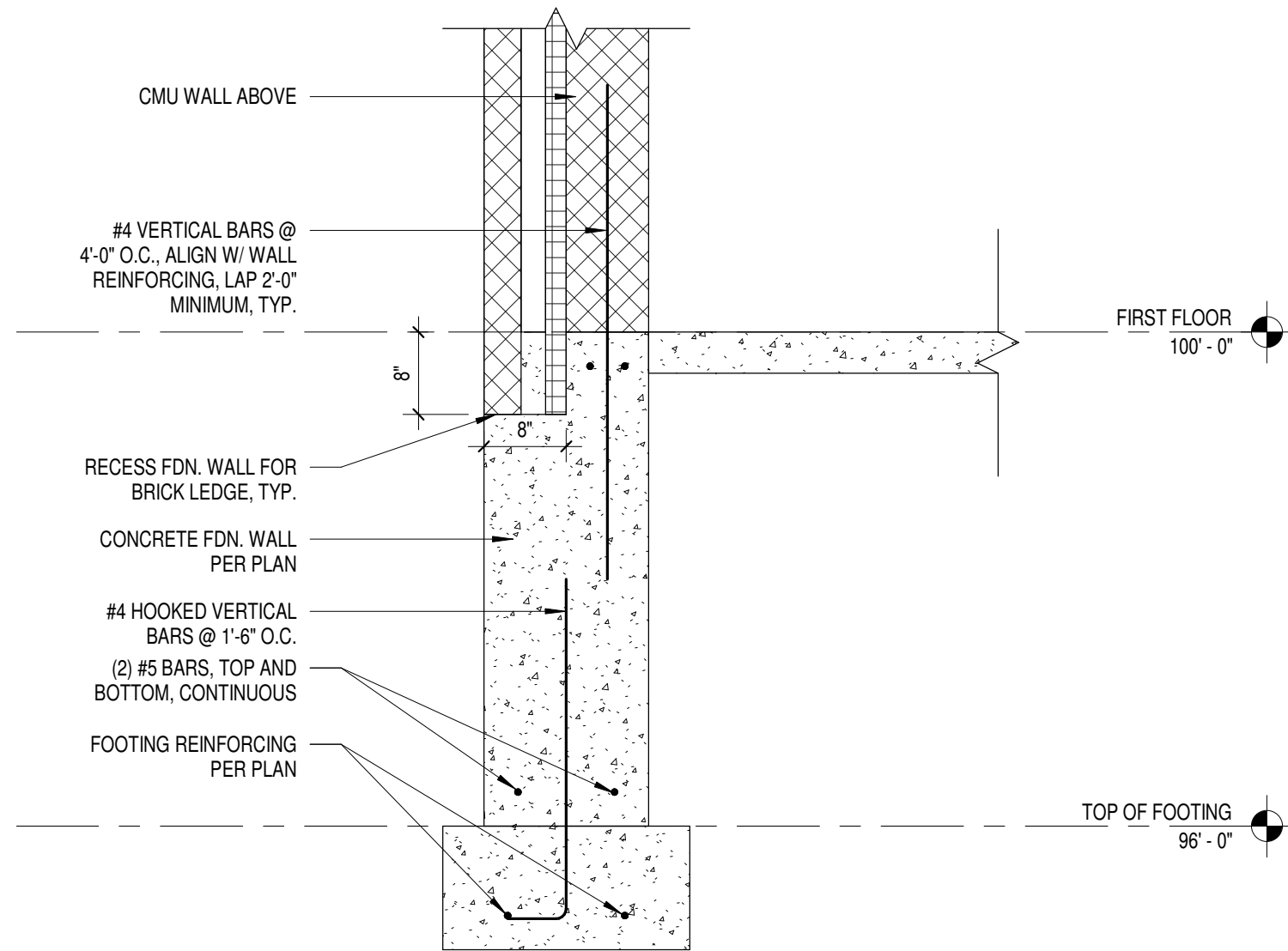
3 HSS4x4 BASE PLATE

3" = 1'-0"



2 INTERIOR COLUMN FOOTING

3/4" = 1'-0"



1 TYPICAL FOUNDATION WALL

3/4" = 1'-0"

MECHANICAL (HVAC) LEGEND

GENERAL SYMBOLS

① THERMOSTAT

DEMOLITION KEYNOTES

NEW OR REMODEL KEYNOTES

MECHANICAL EQUIPMENT TAG

MECHANICAL EQUIPMENT (EXISTING)

INDICATES DIRECTION OF AIR FLOW

CEILING DIFFUSER

CEILING DIFFUSER SIZE AND TYPE
CFM

RETURN/EXHAUST/TRANSFER GRILLE

SIDEWALL RETURN/EXHAUST/TRANSFER GRILLE

SIDEWALL SUPPLY/TRANSFER GRILLE

DOOR GRILLE (BY GENERAL TRADE)

DOOR UNDERCUT (BY GENERAL TRADE)

INDICATES ROOM NAME

INDICATES ROOM NUMBER

REVISION NUMBER

REVISION CLOUD

EQUIPMENT ABBREVIATIONS

AC AIR CONDITIONING (SPLIT SYSTEM)

EDH ELECTRIC COVE. HEATER

EF EXHAUST FAN

EFH ELECTRIC FAN-FORCED HEATER

F FURNACE

GRDs GRILLES, REGISTERS, AND DIFFUSERS

L LOUVER

MAU MAKEUP AIR UNIT

R RANGE HOOD

RD ROOF DRAIN

GRD ABBREVIATIONS

CD CEILING DIFFUSER

EG EXHAUST GRILLE

RG RETURN GRILLE

TG TRANSFER GRILLE

DUCTWORK SYMBOLS

MITERED ELBOW W/ TURNING VANES

SUPPLY/OUTSIDE/MIXED AIR DUCT DOWN

SUPPLY/OUTSIDE/MIXED AIR DUCT UP

RETURN/EXHAUST/TRANSFER AIR DUCT DOWN

RETURN/EXHAUST/TRANSFER AIR DUCT UP

ROUND DUCT DOWN

ROUND DUCT UP

DUCT OFFSET (AS INDICATED)

FLEXIBLE DUCT

SQUARE/RECTANGULAR DUCT BREAK

MANUAL BALANCING (VOLUME) DAMPER

CONTROL DAMPER W/ ACTUATOR

ZONE DAMPER

FIRE DAMPER

ROUND DUCT OR 2-LINE PIPE BREAK

DUCTWORK SYSTEM ABBREVIATIONS

EA EXHAUST AIR

MA MIXED AIR (OA + RA)

OA OUTSIDE AIR

RA RETURN AIR

SA SUPPLY AIR

TA TRANSFER AIR

PIPING SYMBOLS

PIPE DOWN

PIPE UP

PIPING SYSTEM ABBREVIATIONS

REFRIGERANT

RAIN LEADER

GENERAL ABBREVIATIONS

A AMPERE

A/C AIR CONDITIONING

A.D. ACCESS DOOR

A.F.F. ABOVE FINISH FLOOR

A.F.G. ABOVE FINISH GRADE

A.F.R. ABOVE FINISHED ROOF

AMPS AMPERES

AUX AUXILIARY

AVG. AVERAGE

B.D. BACKDRIFT DAMPER

BHP BRAKE HORSEPOWER

BSMT BASEMENT

BTU BRITISH THERMAL UNIT

BTUH BRITISH THERMAL UNIT PER HOUR

CAP. CAPACITY

CFM CUBIC FEET PER MINUTE

CL CENTERLINE

CLG. COOLING

CEIL. CEILING

C.O. CLEANOUT

CONT. CONTINUE

CU FT. CUBIC FEET

CU IN. CUBIC INCHES

IP CHANGE IN PRESSURE

ΔT CHANGE IN TEMPERATURE

° DEGREE

DB DRY BULB

DC DIRECT CURRENT

DDC DIRECT DIGITAL CONTROLS

DIA. DIAMETER

DISC. DISCONNECT

DN. DOWN

DP DIFFERENTIAL PRESSURE

DWG. DRAWING

DWPT DEMPPOINT

DX DIRECT EXPANSION (REFRIGERATION)

EAT ENTERING AIR TEMPERATURE

EDB ENTERING DRY BULB TEMPERATURE

EFF. EFFICIENCY

EL. ELEVATION

EWB ENTERING WET BULB TEMPERATURE

ESP EXTERNAL STATIC PRESSURE

ETR EXISTING TO REMAIN

EWI ENTERING WATER TEMPERATURE

EK. EXISTING

EXH. EXHAUST

°F DEGREES FAHRENHEIT

F.D. FIRE DAMPER

FLA. FULL LOAD AMPS

FLR. FLOOR

FPI FINS PER INCH

FPM FEET PER MINUTE

FPS FEET PER SECOND

FT FEET

GAL GALLONS

GPH GALLONS PER HOUR

GPM GALLONS PER MINUTE

GRV GRAVITY RELIEF VENT

HD HEAD (FEET)

HP HORSEPOWER

HTG. HEATING

HVAC HEATING, VENTILATION AND AIR CONDITIONING

HW HOT WATER

HZ HERTZ (FREQUENCY)

ID INSIDE DIAMETER

IN. INCH OR INCHES

KW KILOWATT

LAT LEAVING AIR TEMPERATURE

LBS POUNDS

LDB LEAVING DRY BULB TEMPERATURE

LWB LEAVING WET BULB TEMPERATURE

LWT LEAVING WATER TEMPERATURE

MAT MIXED AIR TEMPERATURE

MAX. MAXIMUM

MTH THOUSAND BTUH

MCA MINIMUM CIRCUIT AMPS

MECH. MECHANICAL

MFG. MANUFACTURER

MOOP MAXIMUM OVER CURRENT PROTECTION

M.O.D. MOTOR OPERATED DAMPER

MTD. MOUNTED

NIC NOT IN CONTRACT

NOM. NOMINAL

NPS NOMINAL PIPE SIZE

NTS NOT TO SCALE

DAT OUTSIDE AIR TEMPERATURE

O.B.D. OPPOSED BLADE DAMPER

O.C. ON CENTER

OD OUTSIDE DIAMETER

O.E.D. OPEN ENDED DUCT

PD PRESSURE DROP

PSI POUNDS PER SQUARE INCH

PSIG PSI GAUGE

Ø ROUND DIAMETER

RAT RETURN AIR TEMPERATURE

RM. ROOM

RPV REVOLUTIONS PER MINUTE

SAT SUPPLY AIR TEMPERATURE

SD SMOKE DAMPER

SQ. FT. SQUARE FEET

SHT. SHEET

SDT SMOKE DETECTOR

SM STATIC PRESSURE

SP SPECIFICATION

SPD. SPEED

S.S. STAINLESS STEEL

STD. STANDARD

T.A. THROW AWAY

TEMP. TEMPERATURE

TSP TOTAL STATIC PRESSURE

TSTAT THERMOSTAT

TYP. TYPICAL

V VOLTS

V.D. VOLUME (BALANCING) DAMPER

VEL. VELOCITY

WB WET BULB

W/ WITH

Z.D. ZONE DAMPER

MECHANICAL SHEET INDEX

SHEET #	SHEET NAME
M100	MECHANICAL GENERAL INFO. SHEET
M101	MECHANICAL DEMOLITION PLANS
M201	MECHANICAL REMODEL PLANS

GENERAL MECHANICAL NOTES:

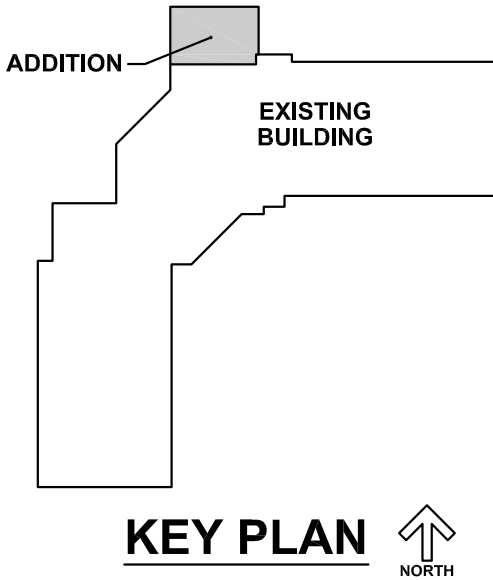
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL CODES; AS WELL AS THE NATIONALLY RECOGNIZED TESTING AND APPROVAL AGENCIES.
- AIR BALANCING SHALL BE DONE IN ACCORDANCE WITH THE SMACNA MANUAL FOR BALANCING AND ADJUSTMENT OF AIR HANDLING SYSTEMS. PROVIDE A FINAL REPORT TO ENGINEER FOR REVIEW.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- PROVIDE THE OWNER WITH TRAINING AND WITH OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT PRIOR TO COMPLETION OF WORK.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, EQUIPMENT SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY VERIFY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- THE INSTALLING CONTRACTOR SHALL VERIFY REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES WITH ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OF EQUIPMENT ORDERS.
- ALL CONTROLS SHALL BE PROPERLY TESTED, ADJUSTED AND CALIBRATED BEFORE WORK IS COMPLETED. MOUNT THERMOSTATS AT 48" A.F.F. PROVIDE INSULATED BASE WHERE MOUNTED ON AN EXTERIOR WALL.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK EQUIPMENT SERVICE CLEARANCES.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- MAINTAIN WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SUCH AS ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS PER NEC REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- ALL EQUIPMENT, DUCTWORK, & PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF DUCT & LINER TO BE EXPOSED DURING CONSTRUCTION.
- ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED TO SMACNA STANDARDS IN ACCORDANCE WITH THE APPROPRIATE PRESSURE CLASSIFICATION. ALL JOINTS, SEAMS, AND CONNECTIONS SHALL BE CLASS A SEALED PER IMC.
- DUCTWORK SIZE LISTED ON PLANS ARE INTERNAL FREE AREA DIMENSIONS. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
- COORDINATE GRILLE/DIFFUSER & ACCESS PANEL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHT FIXTURES, LIGHT FIXTURE SUPPORT ROOFS AND FIRE SPRINKLER HEADS FOR FREE INTERFERENCE.
- MANUAL VOLUME DAMPERS SHALL BE INSTALLED AT EACH BRANCH TAKE-OFF FROM MAIN SUPPLY, RETURN, & EXHAUST DUCTS. DAMPERS SHALL BE LOCATED AS CLOSE TO THE BRANCH TAKE-OFF AS POSSIBLE & INSTALLED TO ALLOW FOR EASY ACCESS.
- VOLUME DAMPERS INSTALLED IN EXTERNALLY INSULATED DUCTWORK SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION WITH SHEET METAL STANDOFF FOR SUPPORT.
- DUCT SIZE TO DIFFUSERS, REGISTERS AND GRILLES SHALL BE SAME SIZE AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
- ALL MITERED RECTANGULAR/SQUARE ELBOWS SHALL HAVE AIR TURNING VANES AS SPECIFIED.

MECHANICAL RENOVATION NOTES:

- THE DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE M.C. IN DETERMINING THE SCOPE OF WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL WORK REQUIRED TO COMPLETE THE PROJECT. THE M.C. SHALL REVIEW DRAWINGS AND SPECIFICATIONS INCLUDING DEMOLITION SHOW FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- REFER TO DIVISION 1, GENERAL REQUIREMENTS, CUTTING AND PATCHING FOR ALL CUTTING AND PATCHING.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- ALL REMOVED ITEMS THAT THE OWNER WANTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

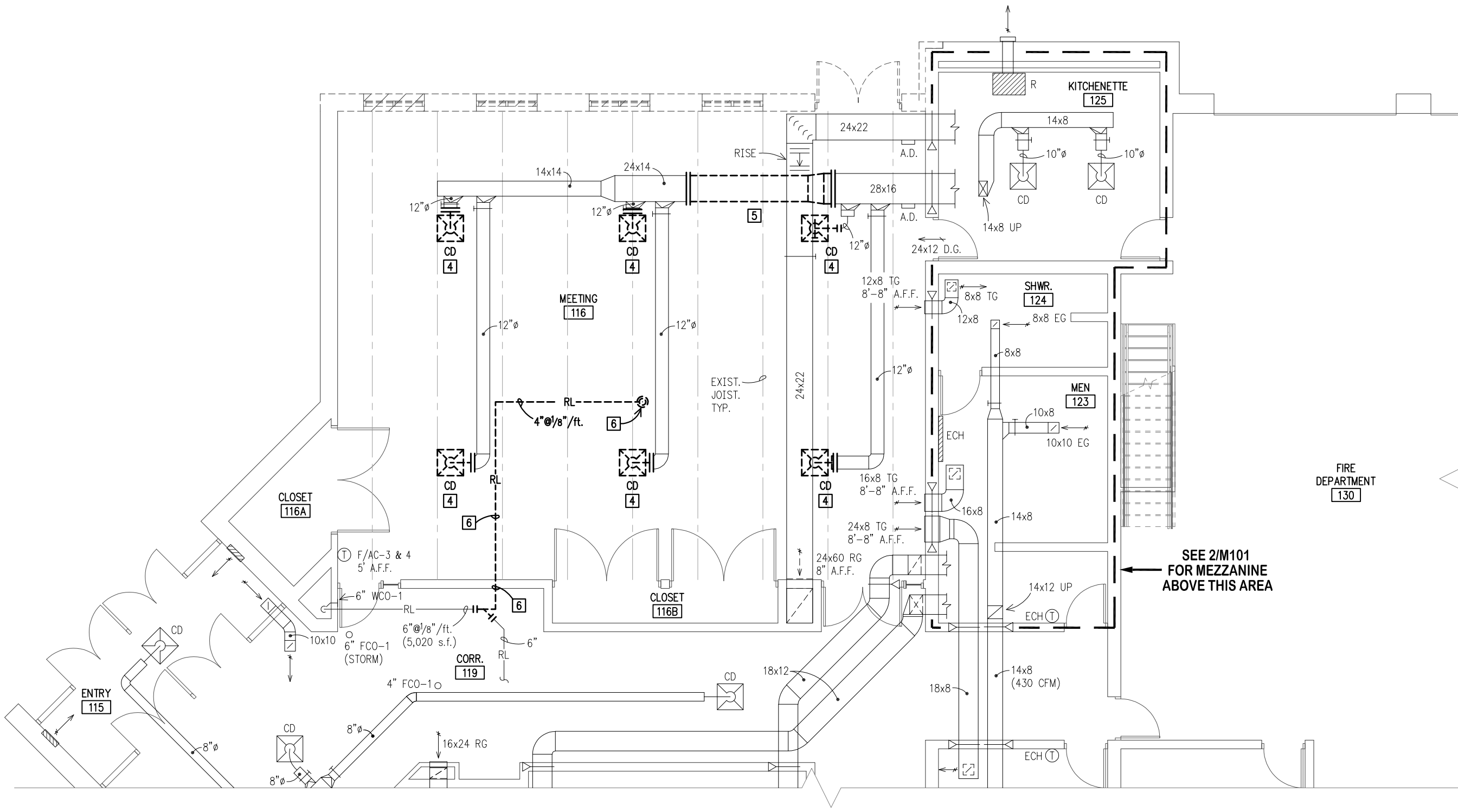
STORM WATER PIPING & ROOF DRAIN SPECS:

- STORM WATER PIPING (ABOVE GRADE)
 - ASTM A74 CAST IRON PIPE, ASTM A74 CAST IRON FITTINGS AND ASTM C 564 NEOPRENE OR LEAD & OAKUM JOINT SEALS.
 - ASTM D 2865 PVC PIPE, ASTM D2865 PVC FITTINGS AND ASTM D 2564 SOLVENT CEMENT (SOLVENT WELDED JOINTS).
- ROOF DRAIN – ASME A112.6 FLASH ROOF DRAIN TO DECK WITH 0.060 INCH THICK RUBBER MEMBRANE MINIMUM OF 30"x30" IN SIZE. FLASHING SHALL BE SECURELY CLAMPED TO THE BODY OF THE DRAIN TO MAKE WATER TIGHT, AIR TIGHT AND DURABLE CONNECTION. PROVIDE SUITABLE EXTENSIONS FOR INSULATION AS REQUIRED. ROOF DRAINS SHALL BE LOCATED ACCORDING TO THE ARCHITECTURAL DRAWINGS. SEE PLUMBING DRAWINGS FOR RAIN LEADER LAYOUT AND SIZES.
 - RD-1: ROOF DRAIN OF CAST IRON BODY WITH COMBINED FLASHING COLLAR GRAVEL STOP, DOME, AND DECK PLATE. EQUAL TO WATTS RD-350-F OR ZURN Z100-WH-OP.
- INSULATION: ASTM C 547; SEMI-RIGID, NONCOMBUSTIBLE, END GRAIN ADHERED TO JACKET, "K" VALUE: ASTM C 177, 0.24 AT 75 DEGREES F. PREFORMED PIPE INSULATION SHALL BE TWO-PIECE OR ONE-PIECE FIBERGLASS COMPOSITE WITH VINYL COATED EMBOSSED VAPOR BARRIER LAMINATE AND PRESSURE SEALING LAP. THE INSULATION SYSTEMS SHALL BE SUITABLE FOR PIPING OPERATING BETWEEN 50°F TO 450°F. THE INSULATION SYSTEM SHALL BE VERMIN-PROOF, ROT-FREE, NON-SHRINKING WITH A MOISTURE ABSORPTION NOT EXCEEDING .2% BY VOLUME AFTER 96 HOURS AT 120°F AND 95% RH. JACKET PERMANENCE SHALL NOT EXCEED .2% PERMS AND SHALL HAVE A BEACH PUNCTURE RATING OF AT LEAST 50 UNITS. FITTINGS, VALVE BODIES AND FLANGES FOR PIPE SIZES 6 INCH AND SMALLER SHALL BE FINISHED WITH FIBERGLASS INSERTS AND PVC FITTING COVERS. ONE (1) INSERT TO BE USED FOR PIPE INSULATION OF 1 INCH THICKNESS. AN ADDITIONAL INSERT TO BE USED FOR EACH ADDITIONAL 1 INCH OR FRACTION THEREOF FOR PIPE INSULATION ABOVE 1 INCH THICKNESS. VAPOR BARRIER JACKET: WHITE KRAFT PAPER WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM; MOISTURE VAPOR TRANSMISSION WHEN TESTED IN ACCORDANCE WITH ASTM E 96/E 96M OF 0.02 PERM-INCHES.

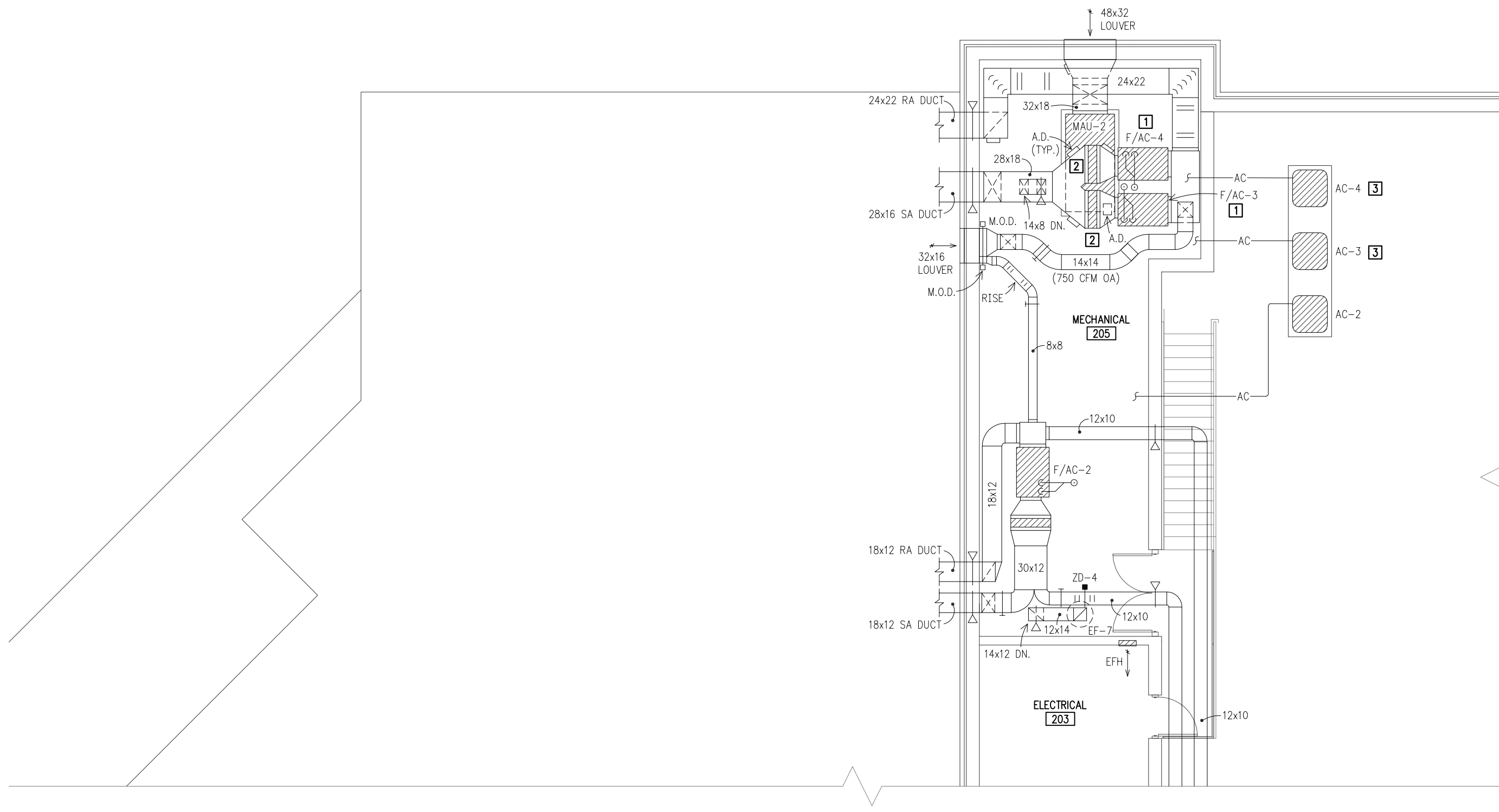


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Project No.: 22102
Drawn By: CDS
Designed By: JKM



1 MECHANICAL FIRST FLOOR PLAN
DEMOLITION
1/8"= 1'-0"
NORTH



2 MECHANICAL MEZZANINE PLAN
DEMOLITION
1/8"= 1'-0"
NORTH

- MECHANICAL DEMOLITION NOTES:
- EXISTING TWINNED FURNACE SYSTEM. FURNACES ARE LENNOX MODEL GHR2604/5-100-8. 93 MBH OUTPUT (EACH).
 - COOLING COIL. LENNOX MODEL CH23-51.
 - 5-TON CONDENSING UNIT. LENNOX MODEL HS26-060.
 - REMOVE CEILING DIFFUSER AND FLEX DUCT.
 - REMOVE SECTION OF DUCT. DUCTS TO BE RECONNECTED IN REMODEL WORK.
 - REMOVE ROOF DRAIN AND RAIN LEADER PIPING BACK TO BREAK LINES.

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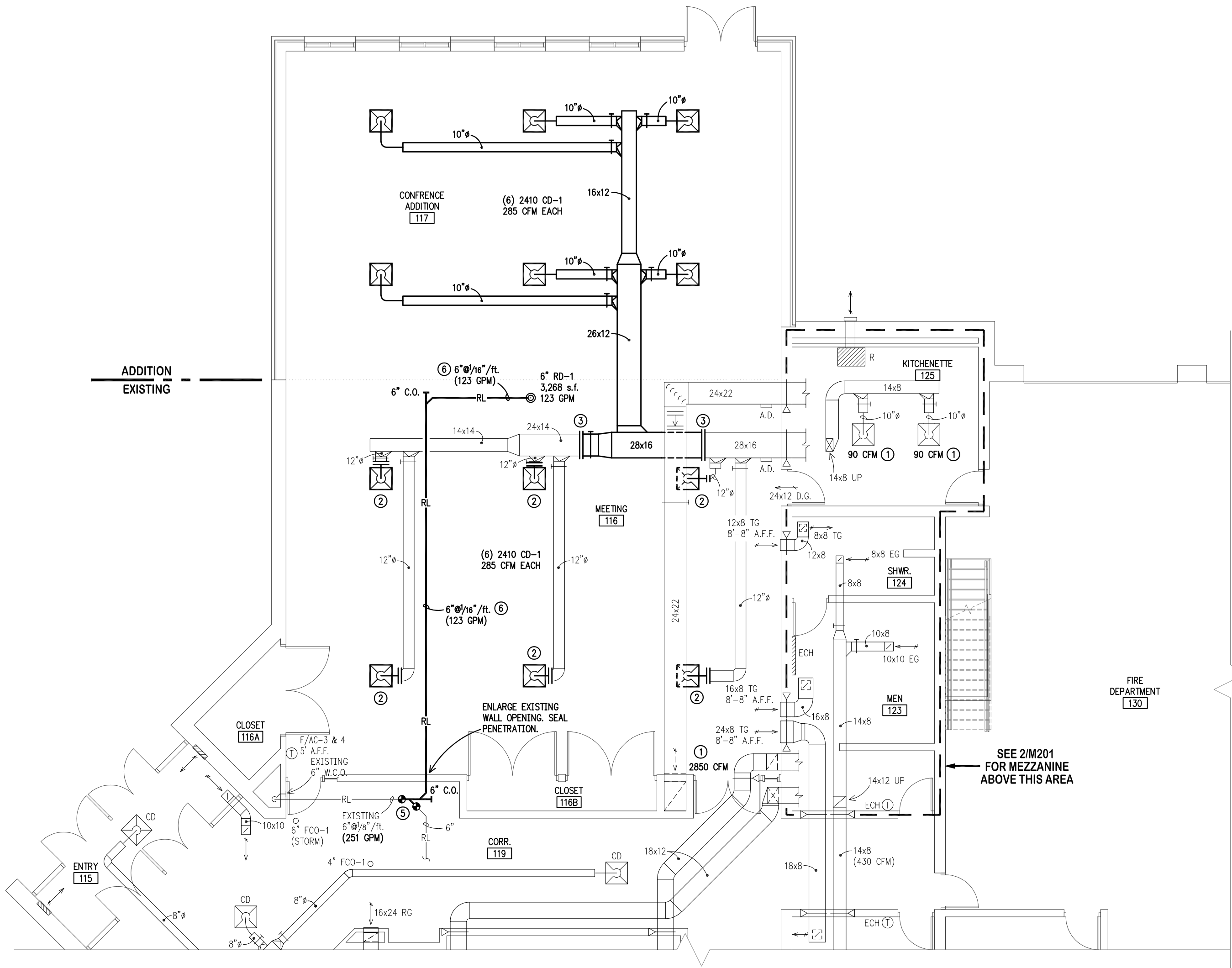
MECHANICAL
DEMOLITION
PLANS

REVISIONS:
NO. DATE

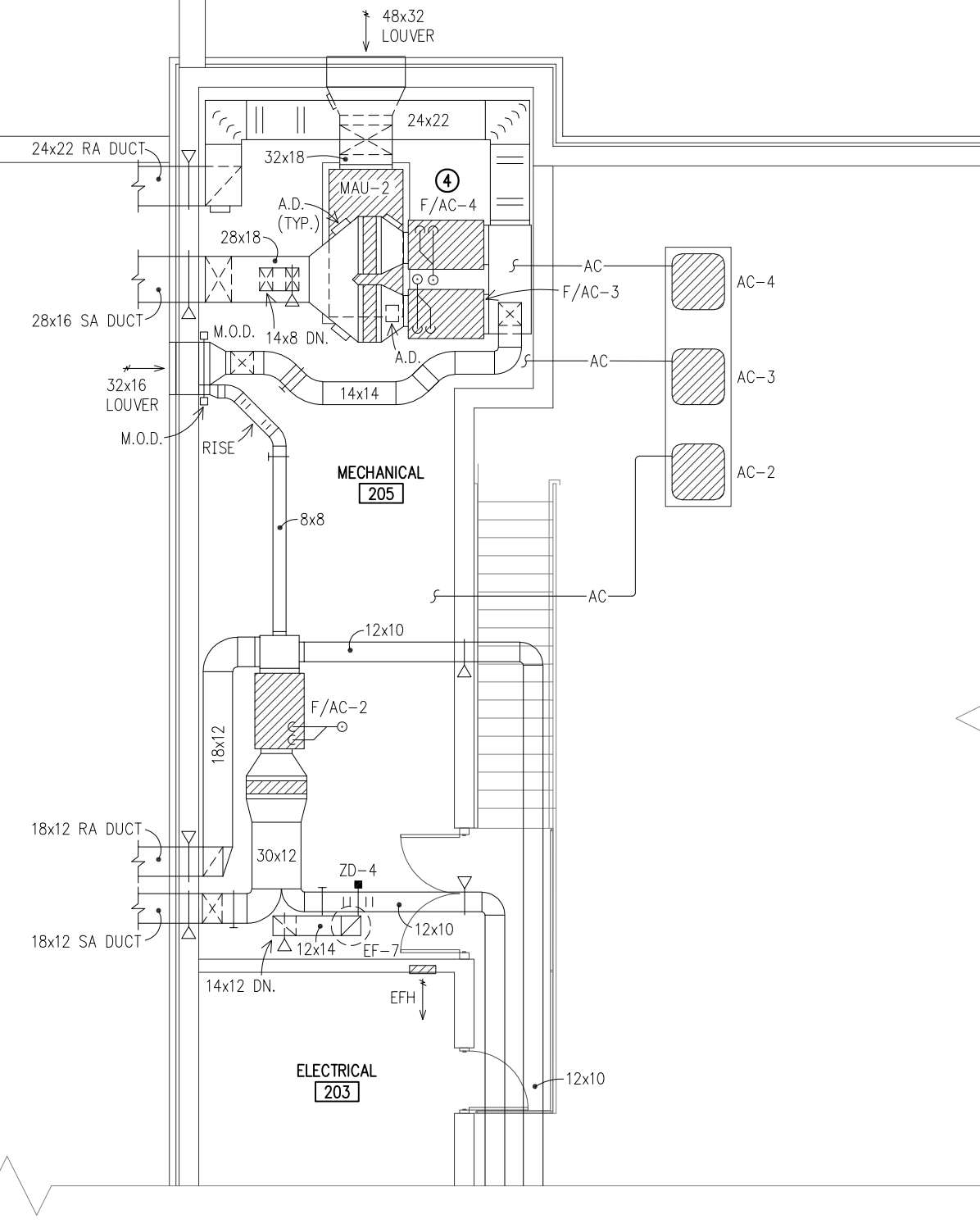
ISSUE DATE:
02/22/2023

M101

2dip PROJECT #21090



1 MECHANICAL FIRST FLOOR PLAN
M201 1/8"= 1'-0" ADDITION NORTH



2 MECHANICAL MEZZANINE PLAN
M201 1/8"= 1'-0" ADDITION NORTH

- MECHANICAL ADDITION NOTES:
- ① BALANCE EXISTING GRD TO AIRFLOW INDICATED.
 - ② CONNECT TO EXISTING 12"ø AND TRANSITION TO 10"ø.
 - ③ CONNECT TO EXISTING DUCT. TRANSITION AS REQUIRED.
 - ④ BALANCE SYSTEM TO 3600 CFM SA, 750 CFM OA.
 - ⑤ CONNECT NEW 6" RAIN LEADER TO EXISTING 6" RAIN LEADER. PROVIDE NEW 6" CLEAN OUT. FIELD VERIFY EXISTING RAIN LEADER ELEVATION BEFORE PERFORMING ANY WORK.
 - ⑥ RUN NEW RAIN LEADER IN JOIST SPACE AS HIGH AS POSSIBLE.



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MECHANICAL
ADDITION
PLANS

REVISIONS:
NO. DATE

ISSUE DATE:
02/22/2023

M201

2dip PROJECT #21090

PANEL - F SECTION 2													
AMPS - 200		MAIN - LUGS		VOLTS - 120/208		PHASE - 3		MOUNTING - FLUSH		LOCATION - ROOM 119			
BRKR				CIRCUIT		PHASE LOADS			CIRCUIT		BRKR		
A	P	LOAD DESCRIPTION		V-A	NO.	A	B	C	NO.	V-A	A	P	
20	1	SPARE		43	180				44	180			
20	1	SPARE		45		1000			46	1000			
20	1	SPARE		47					48				
20	1	SPARE		49	1200				50	1200			
		SPACE ONLY		51		4000			52	4000			
		SPACE ONLY		53				4000	54	4000			
		SPACE ONLY		55	300				56	300			
		SPACE ONLY		57		180			58	180			
		SPACE ONLY		59				180	60	180			
		SPACE ONLY		61	900				62	900			
		SPACE ONLY		63		900			64	900			
		SPACE ONLY		65				540	66	540			
		SPACE ONLY		67	540				68	540			
		SPACE ONLY		69					70				
		SPACE ONLY		71					72				
		SPACE ONLY		73					74				
		SPACE ONLY		75					76				
		SPACE ONLY		77					78				
		SPACE ONLY		79					80				
		SPACE ONLY		81					82				
		SPACE ONLY		83					84				
					3120	6080		4720					
NOTES:													
- PROVIDE WITH ISOLATED GROUND BUS										TOTAL LOADS -		40,520	V-A
- PROVIDE WITH INTEGRAL SURGE SUPPRESSION										DEMAND LOADS -		40,520	V-A
										DEMAND LOADS -		112	AMPS

2 **EXISTING PANELS**
E101 FOR REFERENCE ONLY



-
- Diagram illustrating the pole base construction and dimensions:
- POLE**: The central vertical structure.
 - ANCHOR BOLTS**: Located at the top of the base.
 - BASE COVER**: The top horizontal section of the base.
 - 36" ABOVE GRADE**: Dimension indicating the height of the base cover above the ground level.
 - GRADE OR PAVEMENT**: The ground surface level.
 - MINIMUM CONDUIT**: Dimension indicating the minimum depth of the base below grade shall be 66" or as noted.
 - MINIMUM DEPTH OF BASE BELOW GRADE SHALL BE 66" OR AS NOTED.**: Note indicating the required depth of the base below grade.
 - CONDUIT**: The horizontal section of the base.
 - 60" MINIMUM**: Dimension indicating the minimum length of the horizontal section.
 - RIGID STEEL CONDUIT**: The horizontal section of the base.
 - PVC CONDUIT**: The horizontal section of the base.
 - 4" #6 REBAR VERTICAL**: Vertical reinforcement bar.
 - REBAR HORIZONTAL AT 16"**: Horizontal reinforcement bar.
 - AVE MINIMUM 2"**: Dimension indicating the minimum thickness of the base cover.
 - GROUND ROD**: The horizontal section of the base.
 - POLE BASE OF 3000 PSI CONCRETE, CHAMFER TOP EDGE WITH 1"-45 DEG. CUT, FINISH CONCRETE TO 4" BELOW GRADE OR PAVEMENT.**: Note indicating the material and finish requirements for the pole base.
 - 24" DIAMETER**: Dimension indicating the diameter of the pole.

- NOTES:**
- PROVIDE INLINE FUSES IN EACH UNGROUNDED CONDUCTOR WITHIN POLE BASE HANDHOLE. CONDUCTORS IN POLE TO LUMINAIRES SHALL BE #10 THIN. EACH POLE SHALL BE PROVIDED WITH 3/4"x10' COPPER GLAD GROUND ROD DRIVEN TO 6" BELOW GRADE AND BONDED TO POLE, ANCHOR BOLTS, LUMINAIRES, AND REINFORCING STEEL WITH 1-#10 AWG COPPER BONDING JUMPER.
- 3

E101

POLE BASE DETAIL

NO SCALE

SYMBOL SCHEDULE	
LIGHTING	RECEPTACLES
<div><div>FIXTURE TYPE</div><div>X-XX--CIRCUIT #</div><div>PANEL DESIGNATION</div></div> <div>SWITCH LESS OR RELAY #</div> <div>LAY-IN TROFFER DESIGNATIONS TYPICAL FOR ALL FIXTURE TYPES</div>	<div>⌀</div> <div>⊕</div>
<div>⬢ NL</div> <div>NIGHT LIGHT (TYPICAL ALL FIXTURES)</div> <div>-ALL LAMPS SHALL BE UNSWITCHED</div>	<div>⊕</div> <div>DUPLEX RECEPTACLE</div> <div>-18" TO CENTER AFF</div>
<div>⬢</div> <div>CEILING FIXTURE</div>	<div>⊕</div> <div>DUPLEX RECEPTACLE</div> <div>-CEILING MOUNT</div>
<div>⬢</div> <div>WALL PACK / SCONCE FIXTURE</div>	<div>⊕</div> <div>ACCESS FLOOR BOX</div> <div>-FLOOR MOUNT</div>
<div>⬢</div> <div>EXIT LIGHT</div> <div>-CEILING MOUNT</div>	<div>⊕</div> <div>POWER</div>
<div>⬢</div> <div>EXIT LIGHT</div> <div>-WALL MOUNT</div>	<div>⊕</div> <div>JUNCTION BOX</div> <div>-18" TO CENTER AFF</div>
<div>⬢</div> <div>EMERGENCY LIGHT</div> <div>-WALL MOUNT</div>	<div>⊕</div> <div>POWER PANELBOARD (SURFACE MOUNT)</div> <div>-WALL MOUNT AT 74" AFF TO TOP</div>
<div>⬢</div> <div>POLE MOUNTED EXTERIOR FIXTURE</div> <div>-IES DISTRIBUTION TYPE AS SHOWN</div>	<div>⊕</div> <div>FIRE ALARM</div>
<div>S</div> <div>SINGLE POLE WALL SWITCH</div> <div>-44" TO CENTER AFF</div>	<div>⊕</div> <div>FIRE ALARM HORN/STROBE - 80" AFF</div> <div>-NUMBER REPRESENTS CANDELA RATING</div>
<div>S3</div> <div>THREE WAY WALL SWITCH</div> <div>-44" TO CENTER AFF</div>	<div>⊕</div> <div>MANUAL PULL STATION</div> <div>-42" AFF</div>
<div>⬢</div> <div>LOW VOLTAGE WALL SWITCH</div> <div>-44" TO CENTER AFF</div>	<div>⊕</div> <div>COMMUNICATION</div>
<div>⬢</div> <div>OCCUPANCY SENSOR</div> <div>-CEILING MOUNT</div>	<div>⊕</div> <div>INFORMATION OUTLET</div> <div>-18" TO CENTER AFF</div>
<div>⬢</div> <div>LIGHTING CONTROLLER</div>	<div>⊕</div> <div>INFORMATION OUTLET</div> <div>-CEILING MOUNT</div>
ABBREVIATIONS	
EC ELECTRICAL CONTRACTOR	GFI GROUND FAULT INTERRUPTOR
MC MECHANICAL CONTRACTOR	WP WEATHER PROOF
GC GENERAL CONTRACTOR	



LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MFG	PART #	TEMP.	LUMENS	MOUNT	SHIELDING	DRIVER	VOLT.	EMERG	COLOR
B4	2'X4' FLAT PANEL TROFFER	Metablux	24FPSL	SEL	3K-6K	RECESSED	FLAT	0-10V DIM(U)UNV			WHITE
C6	6" J-BOX SURFACE CAN 15W	HALO	SLD612	40	1200	JB	FLAT	DIMMABLE UNV			WHITE
1. FIXTURE MODEL NUMBER MAY NOT REFLECT ALL MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL THE NECESSARY MOUNTING EQUIPMENT, LENSES, STEMS, SAFETY CHAINS, END PLATES 2. SET TO MED. LUMEN AND 4000K TEMP. AND OTHER HARDWARE FOR A COMPLETE INSTALLATION. PROVIDE FLANGE KIT AS REQ'D.											

- ELECTRICAL NOTES:
- E.C. SHALL PROVIDE A DOUBLE GANG EXTRA DEEP J-BOX WITH A SINGLE GANG DRYWALL RING AND 1" CONDUIT WITH A GROMMET ON THE END TO ACCESSIBLE CEILING FOR ALL INFORMATION OUTLETS. ALL PHONE, TV AND DATA DEVICES, TERMINATIONS AND TESTING BY OTHERS. COORDINATE WITH SYSTEMS PROVIDER. VERIFY ALL LOCATIONS WITH THE OWNER.
 - E.C. SHALL COORDINATE WITH THE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL ROOM CLASSIFICATIONS AND FIRE RATINGS PRIOR TO BIDS.
 - PROVIDE GFCI, AIC AND TR RECEPTACLES PER CODE.
- EXISTING DEVICE, NO WORK REQUIRED.
 - EXTEND EXISTING LIGHTING CIRCUITS TO NEW LUMINAIRES AND NEW CONTROLS. E.C. SHALL PROVIDE LOW VOLTAGE CONTROL WIRING AS NEEDED. UPDATE PANEL SCHEDULE.
 - NO WORK IN THIS AREA.
 - RELOCATE SALVAGED FIRE ALARM DEVICE TO THIS LOCATION. EXTEND CABLE AS NEEDED TO REACH THE NEW LOCATION.
 - COORDINATE LOCATION OF CEILING MOUNTED TV WITH ARCHITECT AND OWNER PRIOR TO INSTALL. CIRCUIT BOTH TYS TO ONE SPARE 20A/1P BREAKER IN PANEL F.
 - INSTALL SALVAGED RECEPTACLE/WP COVER AND EXTEND EXISTING EXTERIOR RECEPTACLE CIRCUIT TO NEW LOCATION.
 - EXTEND DEMOLISHED FLOOR ACCESS BOX POWER TO NEW RECEPTACLES. UPDATE PANEL DIRECTORY.
 - EXTEND DEMOLISHED NORTH WALL RECEPTACLE CIRCUITS TO NEW NORTH WALL RECEPTACLES.
 - INSTALL SALVAGED LUMINAIRE ON NEW WALL AND TIE INTO EXISTING EMERGENCY LIGHTING/CONTROL CIRCUITS. MATCH EXISTING MOUNTING HEIGHTS.
 - EXISTING CONTROL AND POWER SHALL BE EXTENDED TO NEW PROJECTOR LOCATION. MATCH HOW EXISTING WAS WIRED AND CONTROLLED. USE SALVAGED CEILING TILE WITH RECEPTACLE AND INFORMATION OUTLET. COORDINATE LOCATION OF PROJECTOR W/OWNER.
 - EXISTING CONTROL AND POWER SHALL BE EXTENDED TO NEW MOTORIZED SCREEN/CONTROL LOCATIONS. MATCH HOW EXISTING WAS WIRED AND CONTROLLED.
 - TIE NEW NIGHT LIGHTS INTO ROOMS EXISTING EMERGENCY LIGHTING CIRCUIT.
 - PROVIDE A ROOM LIGHTING CONTROLLER, LOW VOLTAGE DIMMING SWITCHES AND CEILING OCCUPANCY SENSORS WITH CODE REQUIRED VACANCY CONTROL.
 - PROVIDE A NEW FIRE ALARM DEVICE TO MATCH THE EXISTING AND TIE INTO EXISTING FACP IN THE ELECTRICAL ROOM IN THE MEZZANINE.
 - PROVIDE NEW CONDUIT, CIRCUITS AND CONTROL TO NEW LUMINAIRES IN THIS ROOM.

NOTE:
PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE WITH ONE ANOTHER ALONG WITH OTHER TRADES BEFORE BEGINNING ANY INSTALLATION AND CONTINUING THROUGHOUT PROJECT.