

# 708 N BURDICK STREET

708 N BURDICK, KALAMAZOO, MI

RENDERING - FOR REFERENCE ONLY

Site Plan Review  
Received 01/10/2024  
City of Kalamazoo



## PROJECT NOTES

- CONSTRUCTION MUST COMPLY WITH ALL NATIONAL, STATE, AND LOCAL BUILDING CODES, AS WELL AS ALL LOCAL ORDINANCES.
- DO NOT SCALE DRAWINGS. NOMINAL DIMENSIONS ARE SHOWN. REFER TO DETAILS, NOTES, SPECIFICATIONS AND PARTITION KEY FOR INFORMATION. CONTACT ARCHITECT IF ADDITIONAL INFORMATION IS REQUIRED.
- EXISTING BUILDING INFORMATION WAS OBTAINED FROM THE OWNER AND ADDITIONAL FIELD MEASUREMENTS BY THE ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK. DRAWINGS MAY CONTAIN DISCREPANCIES DUE TO CONCEALED CONDITIONS, INACCURACIES IN THE ORIGINAL DRAWINGS, INACCESSIBLE LOCATIONS, UNRECORDED BUILDING ALTERATIONS AND OTHER CONFLICTING INFORMATION. INFORMATION OUTSIDE OF CONTRACT AREA IS RELATIVE AND FOR REFERENCE ONLY. ALWAYS VERIFY FIELD CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT IF FIELD CONDITIONS CONFLICT SUBSTANTIALLY WITH PROPOSED WORK.
- INSTRUCTIONS FOR BUILDING CONSTRUCTION MAY BE LOCATED IN ANY PART OF THE CONSTRUCTION DRAWINGS. FAILURE OF THE GENERAL CONTRACTOR OR HIS SUB CONTRACTORS AND SUPPLIERS TO SEE INFORMATION IN ANY PART OF THE CONTRACT DOCUMENTS WILL NOT BE A VALID REASON FOR ISSUING A CHANGE ORDER.
- ALL HOLES CREATED FROM ABANDONED DUCT, CONDUIT, ELEC. DEVICES, ETC., WHICH ARE IN VIEW AND ARE NOT SCHEDULED TO BE BOARDED OVER, OR ON A WALL TO BE DEMOLISHED, ARE TO BE FILLED AND PATCHED TO MATCH EXISTING.
- PATCH AND REPAIR ALL EXISTING WALL SURFACES ADJACENT TO NEW WORK AS REQUIRED TO ACHIEVE AN UNINTERRUPTED SURFACE APPEARANCE. PATCH AND REPAIR ALL FLOORING FOR EXISTING BUILDINGS TO ACHIEVE A CONTINUOUS, SMOOTH, AND FLUSH FLOOR SURFACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING REQUIRED TO EXECUTE WORK. THE CONTRACTOR SHALL COORDINATE ALL TEMPORARY CONSTRUCTION WITH THE ARCHITECT AND OWNER TO ASSURE A MINIMUM AMOUNT OF INTERRUPTION WITH THE OWNER'S ACTIVITIES.
- IF THE PROJECT IS A REMODEL, THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURFACES NOT BEING REMODELED IN THE PROJECT AND IN THE PATH OF THE CONTRACTORS TRAVEL, SETUP AND/OR PROJECT MATERIAL STORAGE. THE CONTRACTOR MUST RETURN THE AREAS DISTURBED AS REQUIRED FOR ACCESS TO ITS PRE-EXISTING CONDITION.
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL LOCAL/REQUIRED PERMITS AND INSPECTIONS.
- ALL SAFETY ISSUES RELATED TO CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST COMPLY WITH ALL STATE, LOCAL, ENVIRONMENTAL AND LABOR LAWS DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL WORK TO BE GUARANTEED A MINIMUM OF ONE YEAR FROM THE DATE OF OWNER ACCEPTANCE OF WORK, EXCEPT WHERE MANUFACTURER'S GUARANTEE IS LONGER.
- IF DISCREPANCIES OCCUR BETWEEN DRAWINGS AND FIELD CONDITIONS CONTACT THE ARCHITECT TO VERIFY HOW TO PROCEED BEFORE DOING SO.
- SEE T001 FOR ADDITIONAL PROJECT NOTES, MOUNTING HEIGHTS, AND SYMBOLS
- 3D VIEWS AND RENDERINGS ON THIS PAGE AND THROUGHOUT THE SET ARE FOR REFERENCE ONLY. VERIFY ALL CONSTRUCTION DETAILS THROUGHOUT THE ENTIRE SET OF DOCUMENTS
- THE PROJECT SHALL CONFORM TO UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY AND BUILDING MATERIALS DIRECTORY.
- ANY MATERIAL SUBSTITUTIONS TO A LISTED UL DESIGN NUMBER SHALL BE COORDINATED BY THE CONSTRUCTION MANAGER, CONTRACTOR, SUBCONTRACTOR AND/OR MATERIAL SUPPLIER FOR COMPLIANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPROVALS - FOR ANY MATERIALS SUBSTITUTION IN THE REQUIRED UL DESIGN ASSEMBLY - BY THE FIRE MARSHAL AND BUILDING INSPECTOR HAVING JURISDICTION PRIOR TO ACCEPTANCE.
- FOR ANY CHANGE OF UL DESIGN NUMBER, OR ANY CHANGE IN MATERIAL(S) IN A UL DESIGN ASSEMBLY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL OTHER RELATED MATERIALS OR ASSEMBLIES AFFECTED BY THE CHANGE OF MATERIAL OR UL DESIGN NUMBER ASSEMBLY.
- PROVIDE COMPLETE UL APPROVED THROUGH-PENETRATION FIRESTOP SYSTEMS AT ALL RATED WALL PENETRATIONS.
- PROVIDE FIRESTOPPING AS REQUIRED AT ALL OPENINGS FOR PLUMBING, CONDUIT, DUCTWORK, ETC AT FIRE RATED ASSEMBLIES.
- REFER TO THE FLOOR PLANS FOR IDENTIFICATION OF ALL FIRE AND SMOKE-RATED PARTITIONS.

## PROJECT DESCRIPTION

AN EXISTING VACANT BUILDING IS BEING RENOVATED INTO OFFICE SPACE WITH RESIDENTIAL UNITS.

## DRAWING LIST

SHEET NUMBER	DRAWING TITLE	6/1/2022 - PERMIT SET	10/16/2023 - BULLETIN #1	1/5/2024 - BULLETIN #2
<b>00 GENERAL</b>				
T000	TITLE SHEET	X	X	X
T001	RENDERINGS	X	X	X
T002	MOUNTING HEIGHTS + ABBREVIATIONS	X	X	X
T003	MOUNTING HEIGHTS CONTINUED	X	X	X
T004	CODE COMPLIANCE	X	X	X
<b>01 CIVIL</b>				
C100	ARCHITECTURAL SITE PLAN	X	X	X
<b>02 ARCHITECTURAL</b>				
A000	EXISTING FLOOR PLANS	X	X	X
A110	DEMOLITION PLANS	X	X	X
A120	NEW BASEMENT PLAN	X	X	X
A121	NEW FIRST FLOOR PLAN	X	X	X
A122	NEW SECOND FLOOR PLAN	X	X	X
A130	FINISH PLAN & SCHEDULE	X	X	X
A140	ENLARGED PLANS	X	X	X
A200	REFLECTED CEILING PLANS	X	X	X
A201	REFLECTED CEILING PLANS	X	X	X
A210	ROOF PLAN	X	X	X
A300	INTERIOR ELEVATIONS	X	X	X
A310	INTERIOR DETAILS	X	X	X
A400	DOOR & WINDOW SCHEDULE AND DETAILS	X	X	X
A500	EXTERIOR ELEVATIONS	X	X	X
<b>03 MECHANICAL</b>				
M100	MECHANICAL SPECIFICATION	X	X	X
M101	MECHANICAL PLAN	X	X	X
<b>04 ELECTRICAL</b>				
E100	ELECTRICAL NOTES AND SPECIFICATIONS	X	X	X
E101	ELECTRICAL PLAN	X	X	X
<b>05 PLUMBING</b>				
P100	PLUMBING NOTES	X	X	X
P101	PLUMBING DETAILS	X	X	X
P102	PLUMBING PLAN	X	X	X
<b>06 FIRE SUPPRESSION</b>				
FP101	FIRE SUPPRESSION AND ALARM PLAN AND NOTES	X	X	X
Grand total: 28				

**DRIVEN DESIGN**  
ARCHITECT  
Driven Design Studio PLLC  
117 West Michigan Avenue  
Battle Creek, MI 49017  
(269) 753-8040  
cody@drivendesignstudio.com

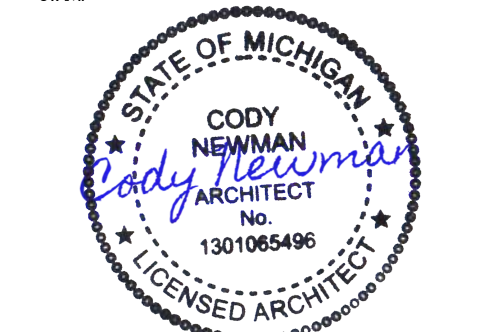
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PROJECT NAME  
708 N BURDICK STREET  
PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI  
CLIENT  
KYLE GULAU

ISSUE  
CONSTRUCTION DOCUMENTS

REVISION

DRAWN BY CMN  
DATE 1/6/2024 9:52:06 PM  
SCALE 12" = 1'-0"



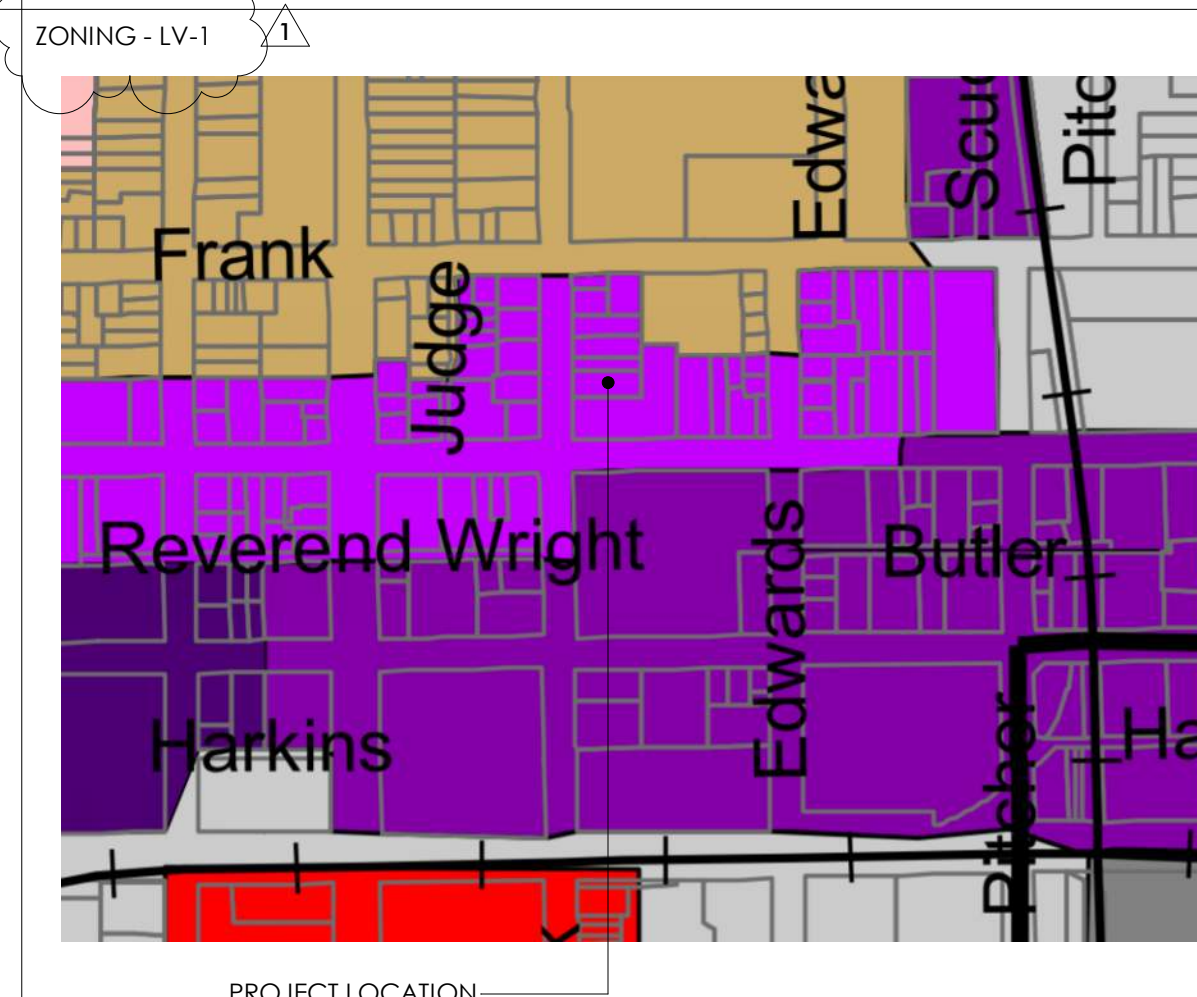
PROJECT NUMBER  
2022.034

TITLE SHEET  
**T000**

## EXISTING PHOTOS - FOR REFERENCE ONLY



## ZONING MAP



## AREA MAP





1 OFFICE - 1  
 12" = 1'-0"



2 OFFICE - 2  
 12" = 1'-0"



3 OFFICE - 3  
 12" = 1'-0"



4 OFFICE - 4  
 12" = 1'-0"

**RENDERINGS - FOR REFERENCE ONLY**



5 FIRST FLOOR - 1  
 12" = 1'-0"



6 FIRST FLOOR - 2  
 12" = 1'-0"



7 FIRST FLOOR - 3  
 12" = 1'-0"



8 FIRST FLOOR - 4  
 12" = 1'-0"

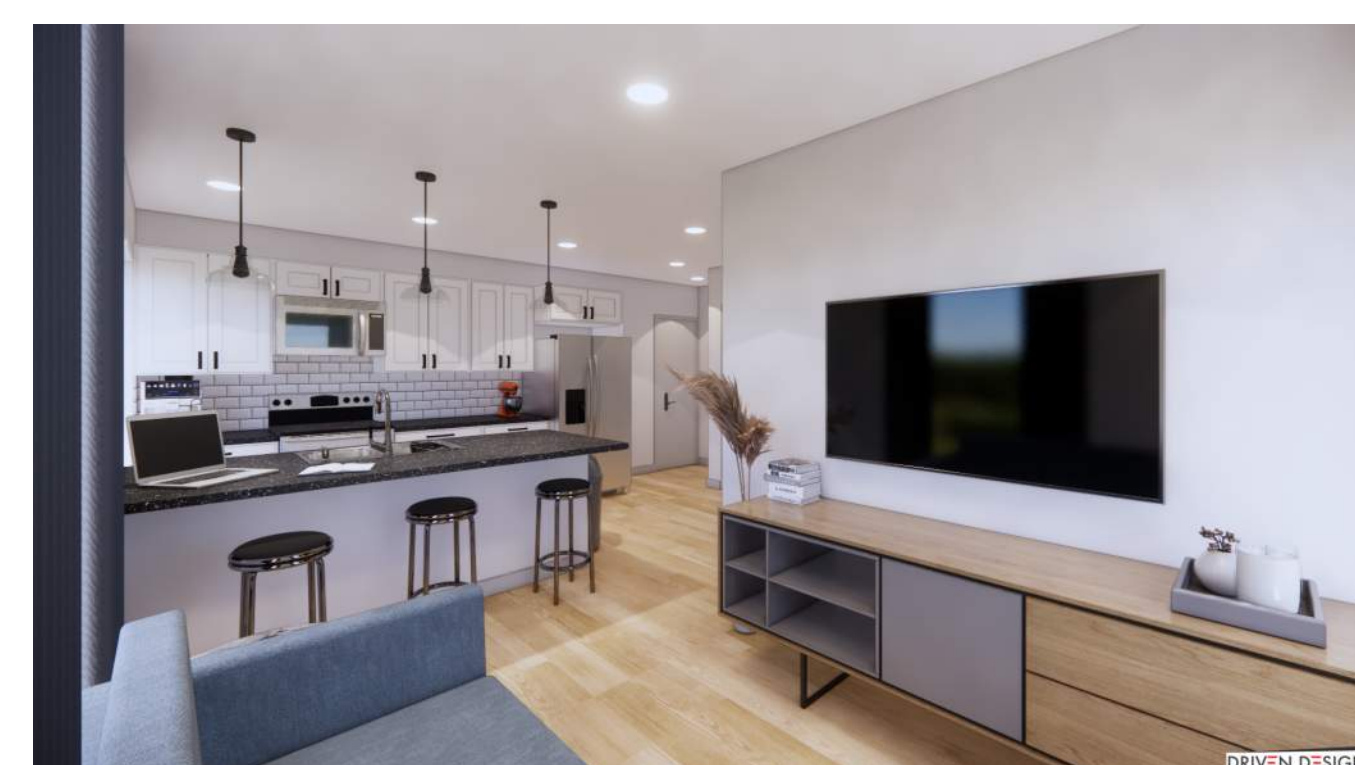
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PROJECT NAME  
 708 N BURDICK STREET  
 PROJECT ADDRESS  
 708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
 KYLE GULAU

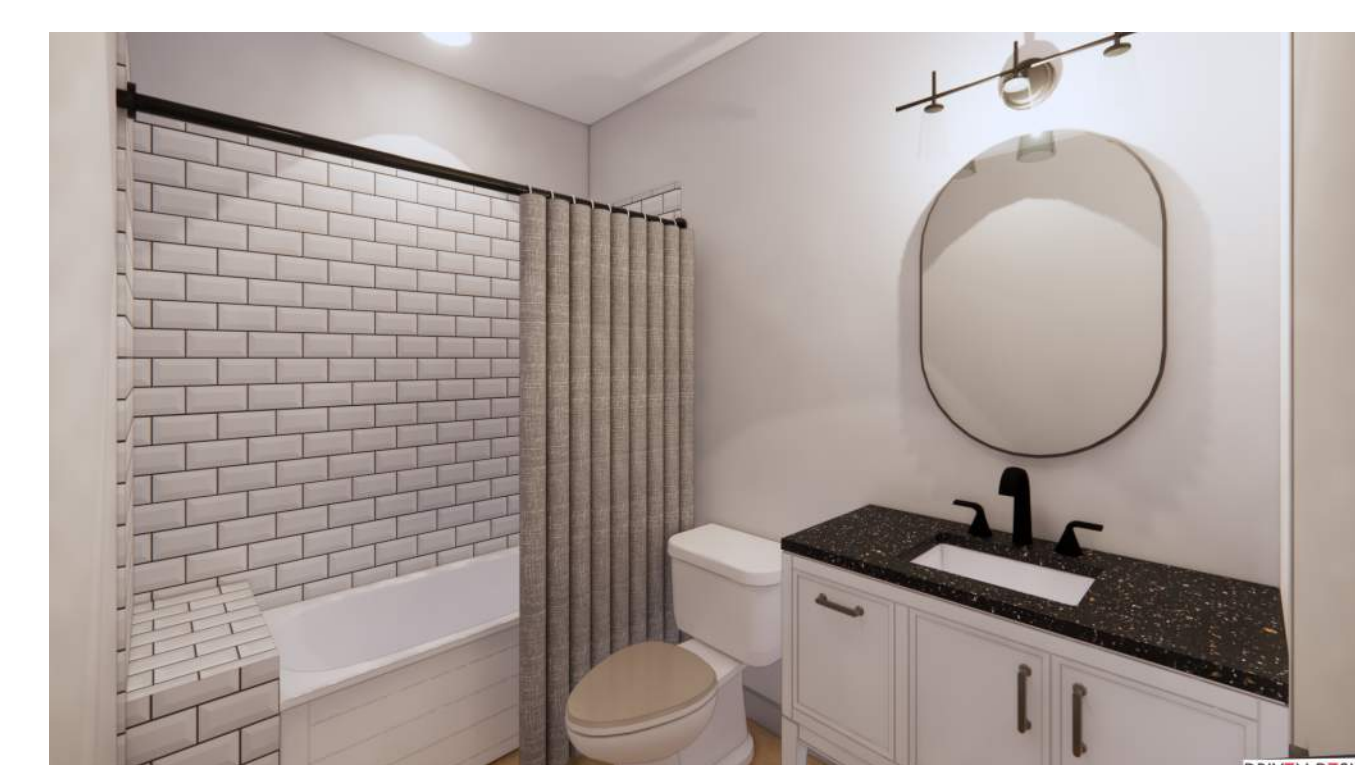
**RENDERINGS - FOR REFERENCE ONLY**



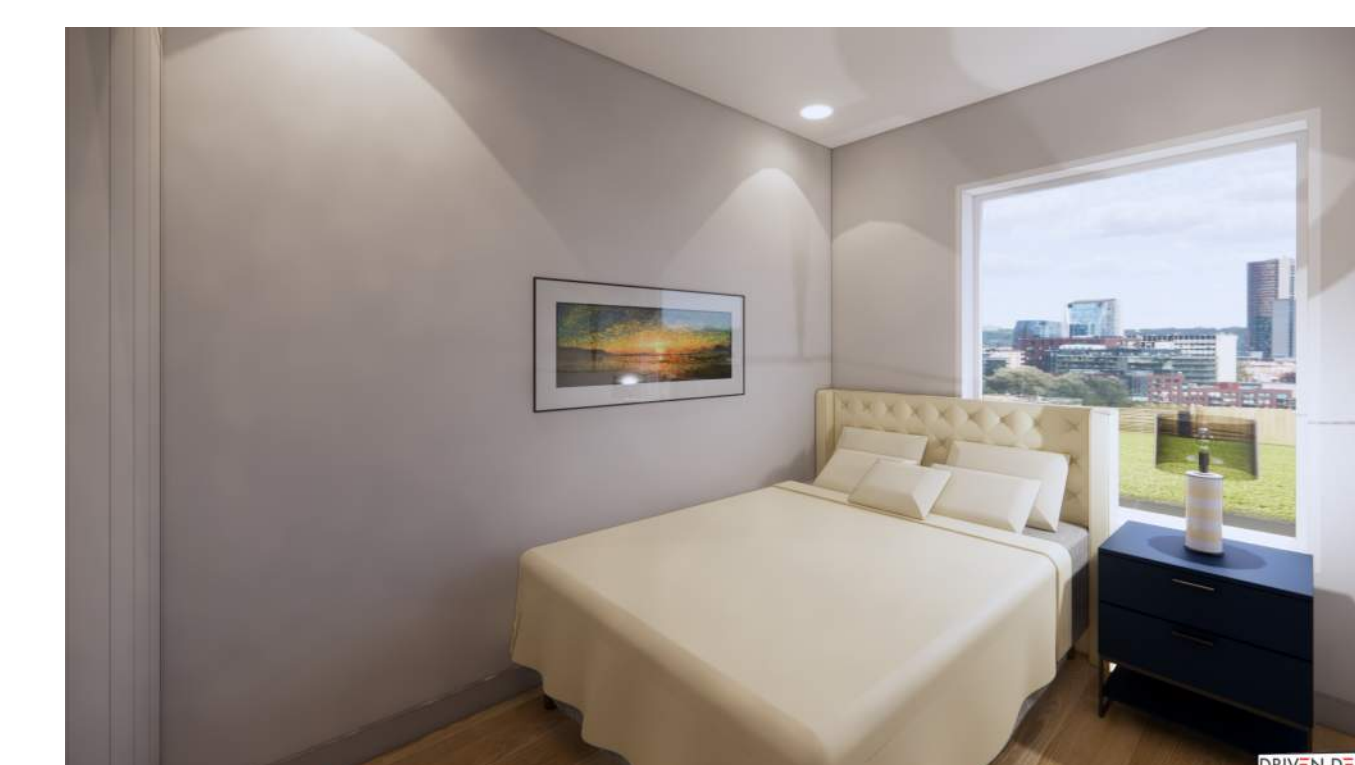
9 SECOND FLOOR - 1  
 12" = 1'-0"



10 SECOND FLOOR - 2  
 12" = 1'-0"



11 SECOND FLOOR - 3  
 12" = 1'-0"



12 SECOND FLOOR - 4  
 12" = 1'-0"

ISSUE  
 CONSTRUCTION DOCUMENTS

REVISION

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 SCALE 12" = 1'-0"  
 STAMP

PROJECT NUMBER  
 2022.034

RENDERINGS

**T001**

**RENDERINGS - FOR REFERENCE ONLY**

**ABBREVIATION LIST**

A A/C	AIR CONDITIONING
A A/V	AUDIO/VISUAL
A ACP	ACOUSTICAL CEILING PANEL
A AD	AREA DRAIN
A ADA	AMERICANS WITH DISABILITIES ACT
A ADJ	ADJUSTABLE
A AFF	ABOVE FINISHED FLOOR
A ALT	ALTERNATE
A ALUM	ALUMINUM
A APPROX	APPROXIMATELY
A ARCH	ARCHITECT(URAL, URE)
A ASSOC	ASSOCIATED
A AUTO	AUTOMATIC
A AWP	ACOUSTICAL WALL PANEL
B BD	BOARD
B BF	BARRIER FREE
B BIT	BITUMINOUS, BITUMEN
B BLDG	BUILDING
B BLKG	BLOCKING
B BM	BEAM
B BOT	BOTTOM
C CAB	CABINET
C CJ	CONTROL JOINT
C CLG	CEILING
C CLR	CLEAR(ANCE)
C CMU	CONCRETE MASONRY UNIT
C COL	COLUMN
C COM	COMMUNICATIONS
C CONC	CONCRETE
C CONFIG	CONFIGURATION
C CONST	CONSTRUCTION
C CONT	CONTINUOUS
C COORD	COORDINATE
C CORR	CORRIDOR
C CPT	CARPET
C CT	CERAMIC TILE
C CTR	CENTER
D DEG	DEGREE
D DF	DRINKING FOUNTAIN
D DIA	DIAMETER
D DIAG	DIAGONAL
D DIM	DIMENSION
D DIV	DIVISION
D DN	DOWN
D DR	DOOR
D DS	DOWNSPOUT
D DTL	DETAIL
D DWG(S)	DRAWING(S)
E E	EAST
E EA	EACH
E EJ	EXPANSION JOINT
E EL	ELEVATION
E ELEC	ELECTRICAL
E ELEV	ELEVATION
E EMER	EMERGENCY
E ENCL	ENCLOS(URE)
E EQ	EQUAL
E EQUIP	EQUIPMENT
E EST	ESTIMATE(D)
E EXIST	EXISTING
E EXP	EXPANSION
E EXT	EXTERIOR
F FA	FIRE ALARM
F FD	FLOOR DRAIN
F FDN	FOUNDATION
F FE	FIRE EXTINGUISHER
F FEC	FIRE EXTINGUISHER CABINET
F FF	FINISHED FACE
F FGL	FIBERGLASS
F FHC	FIRE HOSE CABINET
F FIXT	FIXTURE
F FL	FLOOR(ING)
F FLUOR	FLUORESCENT
F FOC	FACE OF CONCRETE
F FOS	FACE OF STUDS
F FP	FIREPROOF(ING)
F FT	FEET
F FTG	FOOTING
F FUR	FURR(ED,ING)
G GA	GAUGE
G GALV	GALVANIZED
G GB	GRAB BAR
G GC	GENERAL CONTRACT(OR)
G GL	GLASS, GLAZING
G GOVT	GOVERNMENT
G GT	GROUT
G GYP BD	GYP(SUM WALLBOARD
H HC	HOLLOW CORE
H HDR	HEADER
H HDWD	HARDWOOD
H HDWR	HARDWARE
H HGT	HEIGHT
H HM	HOLLOW METAL
H HORIZ	HORIZONTAL
H HP	HIGH POINT
H HR	HOUR
H HT	HEIGHT
H HVAC	HEATING, VENTILATION & AIR CONDITIONING
I ID	INSIDE DIAMETER
I IN	INCH(ES)
I INCAN	INCANDESCENT
I INCL	INCLUDE(D,ING)
I INSUL	INSULATION, INSULATED
I INT	INTERIOR
J JAN	JANITOR
J JT(S)	JOINT(S)
K KIT	KITCHEN

**ABBREVIATION LIST**

L LAM	LAMINATE(D)
L LAV	LAVATORY
L LBL	LABEL
L LH	LEFT HAND
L LL	LIVE LOAD
L LP	LOW POINT
L LTG	LIGHTING
L LTL	LINTEL
M MANF	MANUFACTURE(R)
M MAS	MASONRY
M MATL	MATERIAL(S)
M MAX	MAXIMUM
M MECH	MECHANICAL
M MEMB	MEMBRANE
M MIN	MINIMUM
M MISC	MISCELLANEOUS
M MO	MASONRY OPENING
M MTD	MOUNTED
M MTG	MOUNTING
M MTL	METAL
N N	NORTH
N N/A	NOT APPLICABLE
N NAT	NATURAL
N NIC	NOT IN CONTRACT
N NO	NUMBER
N NOM	NOMINAL
N NMS	NOT TO SCALE
O OC	ON CENTER
O OD	OUTSIDE DIAMETER
O OH	OVERHEAD
O OPNG	OPENING
O OPP	OPPOSITE
O OPP HD	OPPOSITE HAND
P PART	PARTITION
P PC	PRECAST
P PERF	PERFORATE(D)
P PL	PLATE
P PLAM	PLASTIC LAMINATE
P PLAS	PLASTER
P PLWD	PLYWOOD
P PNL	PANEL(ED)
P PR	PAIR
P PREP	PREPARE (SURFACE)
P PROV	PROVIDE
P PSF	POUNDS PER SQUARE FOOT
P PSI	POUNDS PER SQUARE INCH
P PT	PAINT
P PVMT	PAVEMENT
Q QTY	QUANTITY
R R	RISER
R RAD	RADIUS
R RB	RUBBER BASE
R REF	REFRIDGERATOR
R REIN	REINFORCED
R REQD / REQ'D	REQUIRED
R RES	RESILIENT
R RET	RETAINING
R REV	REVISION(S) / REVISE(D)
R RFG	ROOFING
R RH	RIGHT HAND
R RM	ROOM
R RO	ROUGH OPENING
S S	SOUTH
S SC	SOLID CORE
S SCHED	SCHEDULE
S SECT	SECTION
S SF	SQUARE FEET
S SHT	SHEET
S SIM	SIMILAR
S SPEC(S)	SPECIFICATION(S)
S SQ	SQUARE
S SS	STAINLESS STEEL
S STD	STANDARD
S STL	STEEL
S STN	STAIN
S STO	STORAGE
S STRUC	STRUCTURAL
S SUSP	SUSPENDED
S SYM	SYMMETRICAL
S SYS	SYSTEM
T T	TREAD
T T&G	TONGUE AND GROOVE
T T.O.	TOP OF
T TECH	TECHNOLOGY
T TEL	TELEPHONE
T TEMP	TEMPERED
T THK	THICK(NESS)
T THRESH	THRESHOLD
T TOC	TOP OF CURB
T TOM	TOP OF MASONRY
T TOS	TOP OF STEEL
T TOW	TOP OF WALL
T TRANS	TRANSPARENT
T TV	TELEVISION
T TYP	TYPICAL
U UL	UNDERWRITER'S LABORATORY
U UNFIN	UNFINISHED
U UNO	UNLESS OTHERWISE NOTED
V VAR	VARIES
V VCT	VINYL COMPOSITION TILE
V VERT	VERTICAL
V VEST	VESTIBULE
V VIF	VERIFY IN FIELD
V VU	VENTILATION UNIT
V VWC	VINYL WALLCOVERING

**ABBREVIATION LIST**

W W	WATER RESISTANT
W W/	WITH
W W/O	WITHOUT
W WC	WATER CLOSET
W WD	WOOD
W WDW	WINDOW
W WH	WALL HUNG
W WP	WORK POINT
W WR	PAINT(ED)
W WT	WEIGHT
W WWF	WELDED WIRE FABRIC
Z #	NUMBER
Z &	AND
Z +/-	EXIST (OR APPROX) DIM - VIF
Z CL	CENTER LINE
Z L	ANGLE

**INTERIOR STEEL STUD FRAMING**

THE INTERIOR STUD FRAMING GUIDE DESIGNATES THE DESIGN INTENT OF THE ARCHITECT. THE GUIDE IS FOR THE CONTRACTORS REFERENCE WHEN INSTALLING INTERIOR STUD FRAMED WALLS. IT IS THE CONTRACTORS RESPONSIBILITY TO FOLLOW ALL INFORMATION PORTRAYED WITHIN THIS GUIDE AND THE CONTRACT DOCUMENTS.

NOTE: VERIFY MIN. STEEL STUD FRAMING GAUGE REQUIREMENTS /MAXIMUM ALLOWABLE HEIGHTS WITH STEEL STUD FRAMING SUPPLIER.

**MAXIMUM ALLOWABLE HEIGHTS (NON-LOAD BEARING)**

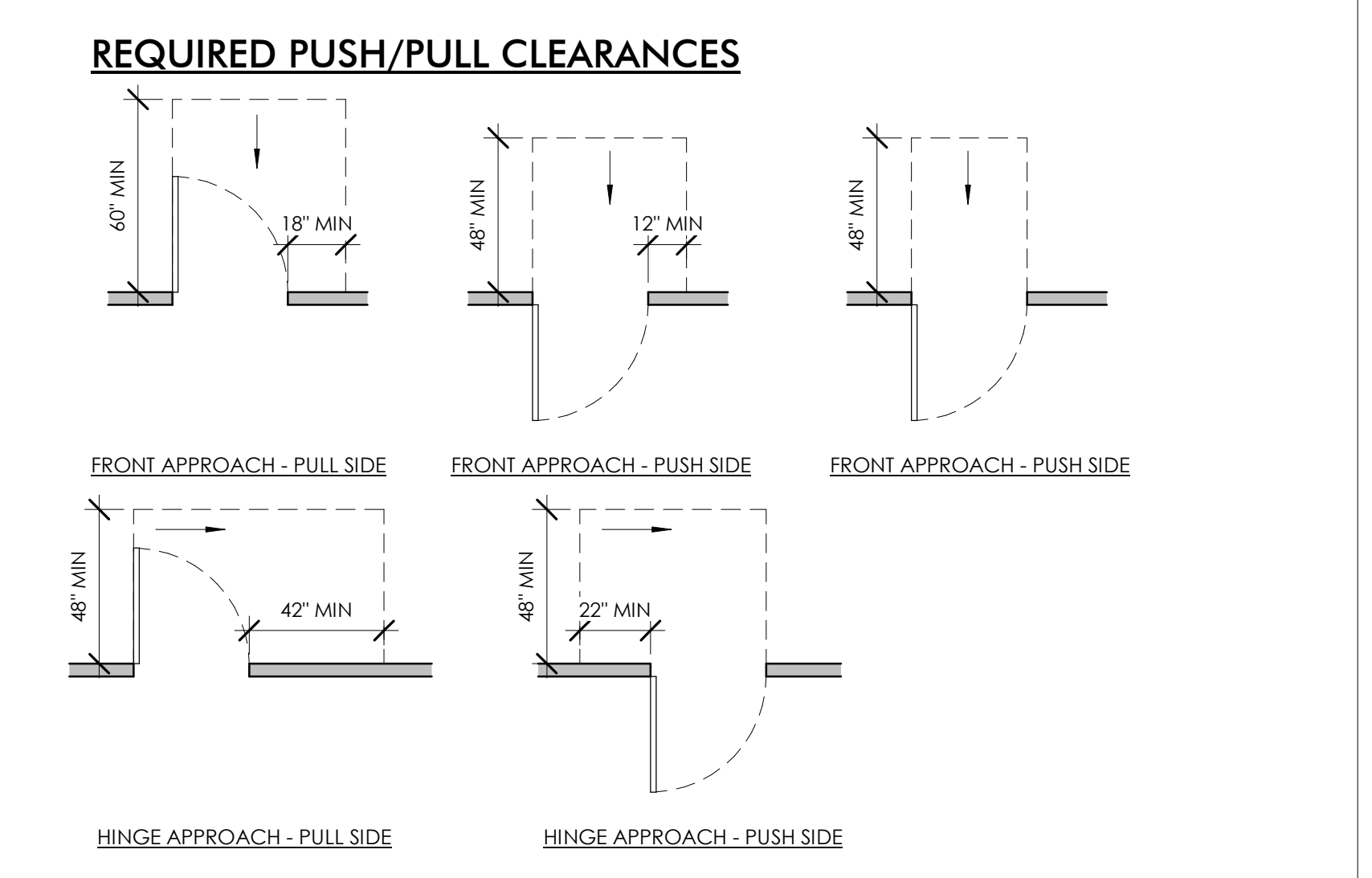
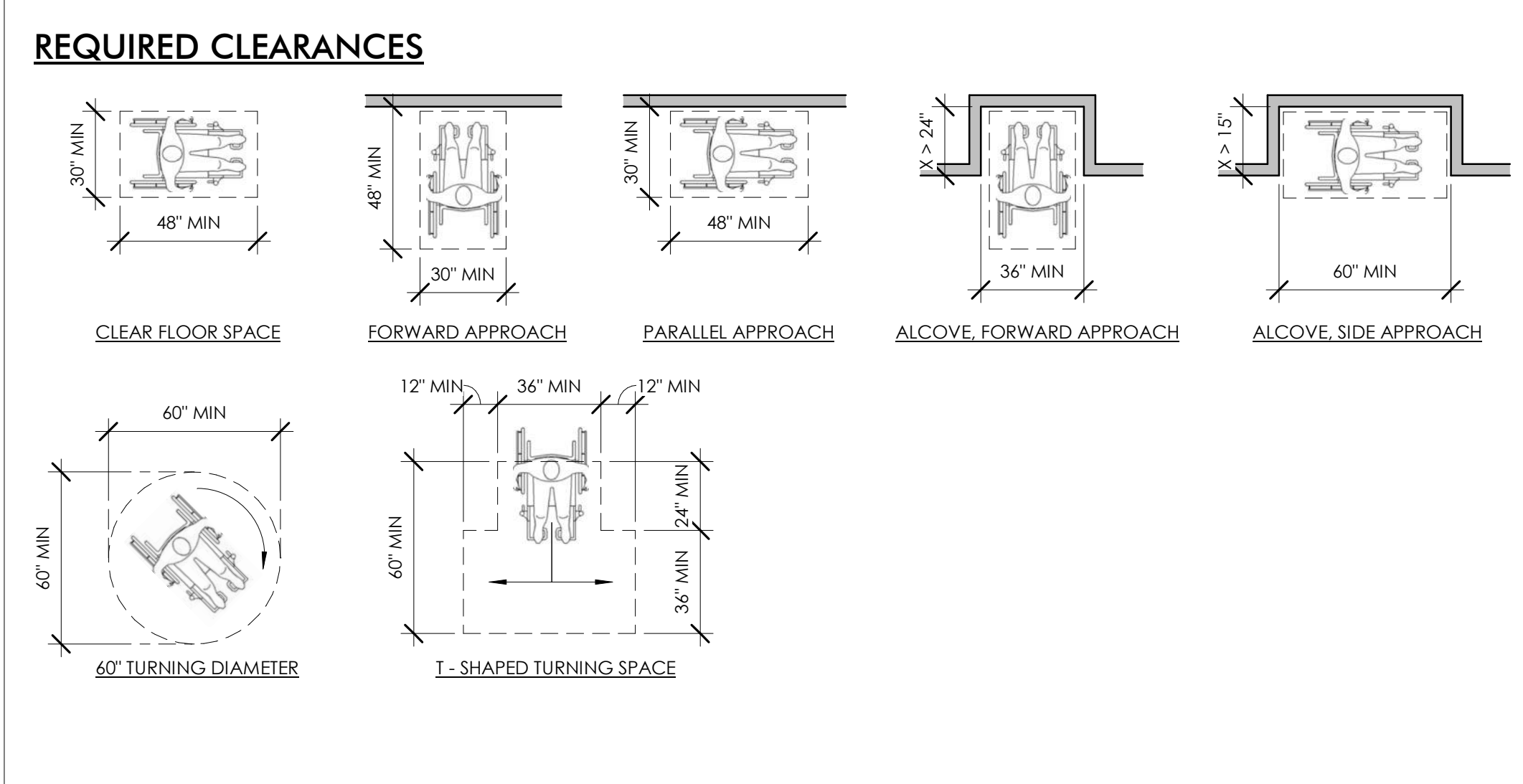
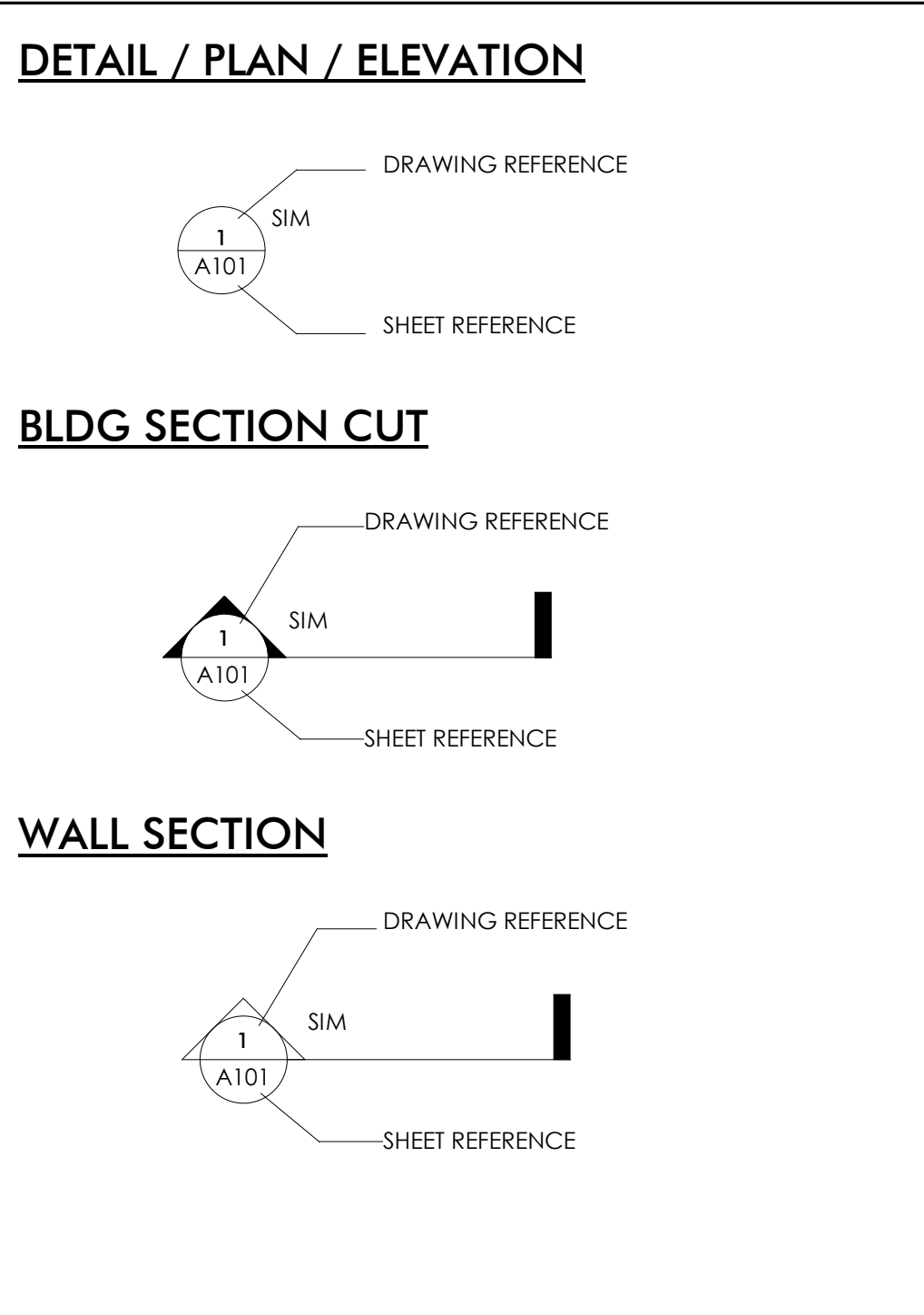
STEEL STUD FRAMING SECTION 092216	COLD-FORMED MTL FRAMING SECTION 054000						* DEFLECTION = L/360 * SPACING = 16" O.C.
	GA.	25	20	18	16	14	
2 1/2"	9'-10"	11'-2"	12'-7"	13'-5"	14'-4"	--	
3 5/8"	12'-4"	14'-3"	16'-8"	17'-11"	19'-2"	21'-2"	
6"	17'-11"	21'-4"	24'-9"	26'-7"	28'-4"	31'-8"	
2 1/2" CH STUD	10'-7"	13'-4"	--	--	--	--	

**GENERAL NOTES**

\*THE MOUNTING HEIGHTS, MATERIALS, AND SYMBOLS SHOWN ON THIS PAGE ARE FOR REFERENCE THROUGHOUT THE PROJECT. NOT ALL ELEMENTS SHOWN WILL APPLY TO THIS SPECIFIC PROJECT. REVIEW THE PROJECT PLANS, SECTIONS, AND ELEVATIONS FOR ADDITIONAL DETAILS AND TO VERIFY WHAT RELATES TO THIS PROJECT.

**MATERIAL DESIGNATIONS & SYMBOLS**

	EXISTING WALL TO REMAIN
	NEW WALL
	1 HOUR PARTITION
	2 HOUR PARTITION
	3 HOUR PARTITION
	ELEMENTS TO BE REMOVED
	EXTENT OF WORK
	CMU
	CONCRETE
	WOOD BLOCKING
	STEEL (LARGE SCALE)
	PLASTER
	RIGID INSULATION
	PLYWOOD
	MILLWORK
	Room name
	ROOM NUMBER FINISH TYPE
	DOOR NUMBER
	WALL TYPES
	WINDOW NUMBER
	EXISTING ELEVATION
	NEW ELEVATION
	BATT INSULATION
	COLUMN CENTER LINE / IDENTIFIER
	REVISION INDICATION

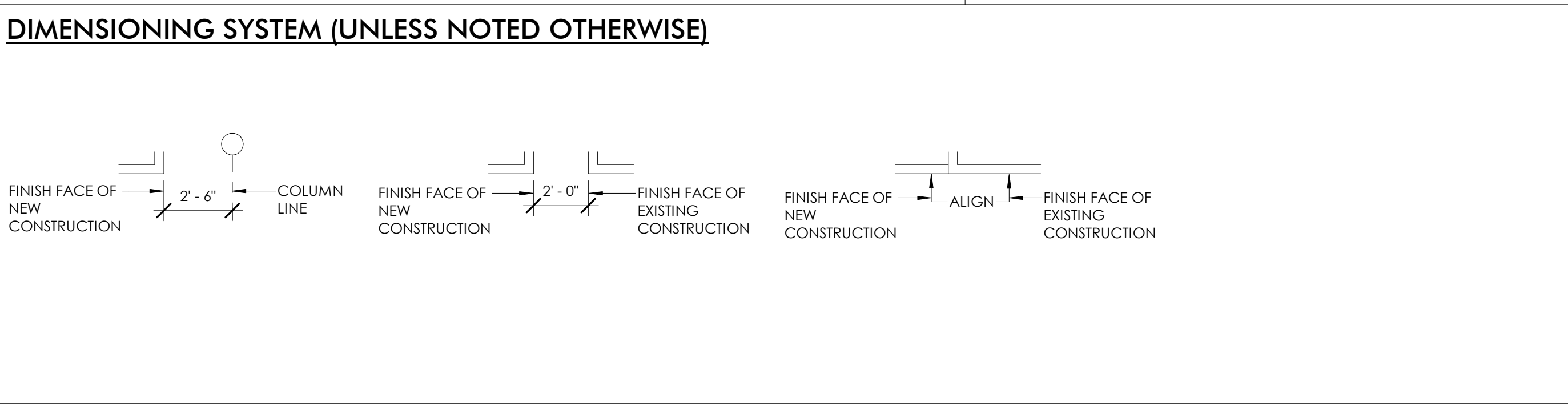
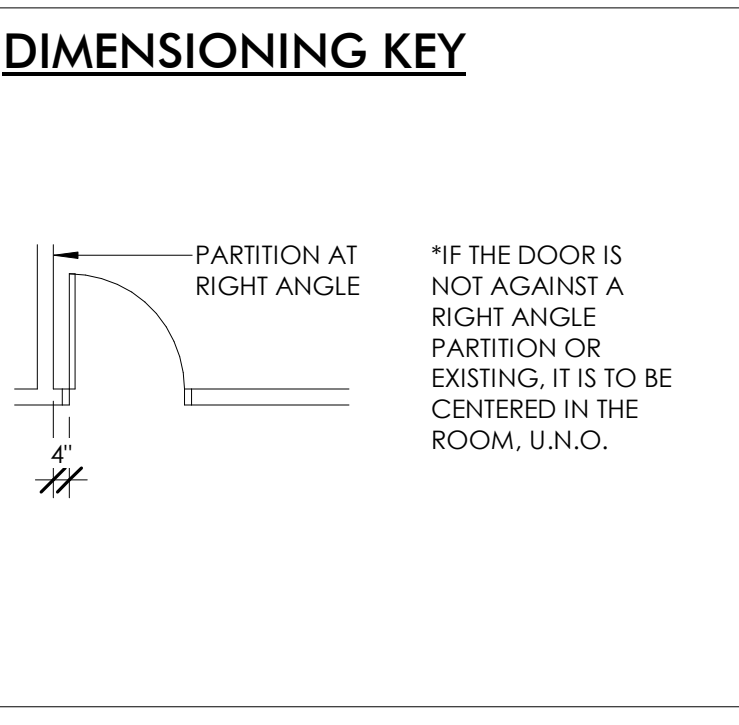
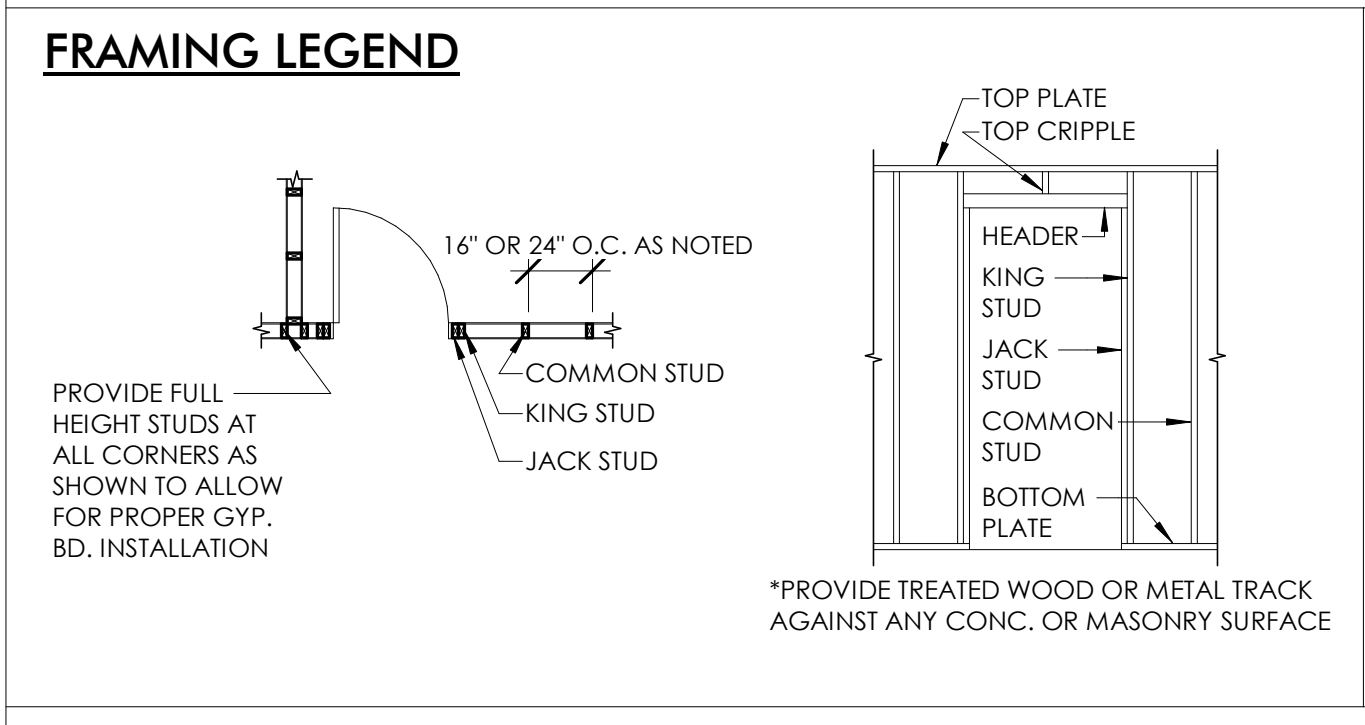


**TYPICAL MOUNTING HEIGHTS**

1. MOUNTING HEIGHTS SHOWN ARE BASED UPON RECOGNIZED DESIGN STANDARDS AND/OR BARRIER FREE CODE REQUIREMENTS. IT IS INTENDED THAT LIKE DEVICES ALL BE MOUNTED AT THE SAME HEIGHT THROUGHOUT THE ENTIRE PROJECT. RECESSED DEVICES IN MASONRY WALLS MAY DICTATE A DEVIATION (+/- 2") FROM THESE HEIGHTS (WHEN PERMITTED BY CODE) SO AS TO ALLOW THE BOTTOM OR THE TOP OF THE DEVICE RECESS TO ALIGN WITH MASONRY COURSING. COORDINATE THESE DEVIATIONS WITH THE ARCHITECTS/OWNER'S REPRESENTATIVE. MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.

**DIMENSIONING**

1. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE, UNLESS NOTED OTHERWISE. SEE DIMENSIONING KEY ON THIS PAGE FOR REFERENCE



**ABBREVIATION LIST**

U UL	UNDERWRITER'S LABORATORY
U UNFIN	UNFINISHED
U UNO	UNLESS OTHERWISE NOTED
V VAR	VARIES
V VCT	VINYL COMPOSITION TILE
V VERT	VERTICAL
V VEST	VESTIBULE
V VIF	VERIFY IN FIELD
V VU	VENTILATION UNIT
V VWC	VINYL WALLCOVERING

**ABBREVIATION LIST**

T T	TREAD
T T&G	TONGUE AND GROOVE
T T.O.	TOP OF
T TECH	TECHNOLOGY
T TEL	TELEPHONE
T TEMP	TEMPERED
T THK	THICK(NESS)
T THRESH	THRESHOLD
T TOC	TOP OF CURB
T TOM	TOP OF MASONRY
T TOS	TOP OF STEEL
T TOW	TOP OF WALL
T TRANS	TRANSPARENT
T TV	TELEVISION
T TYP	TYPICAL

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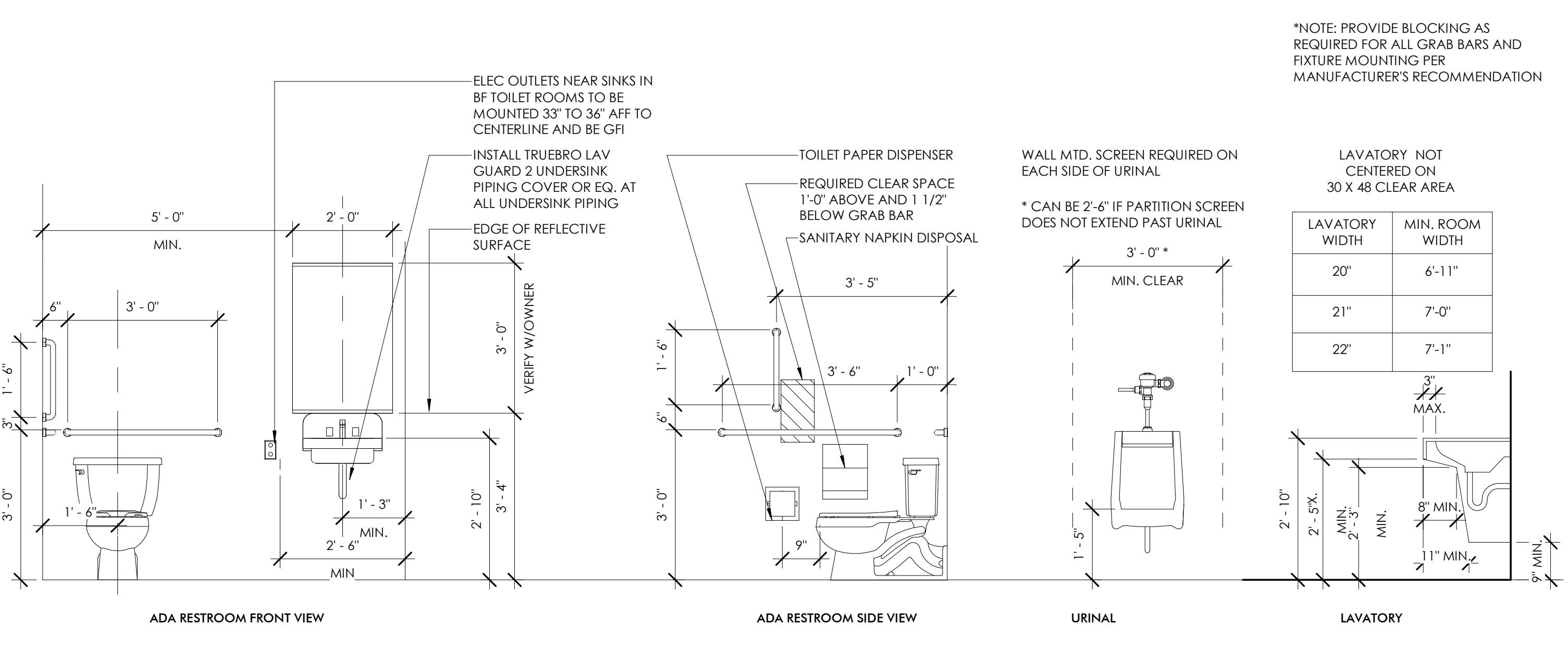
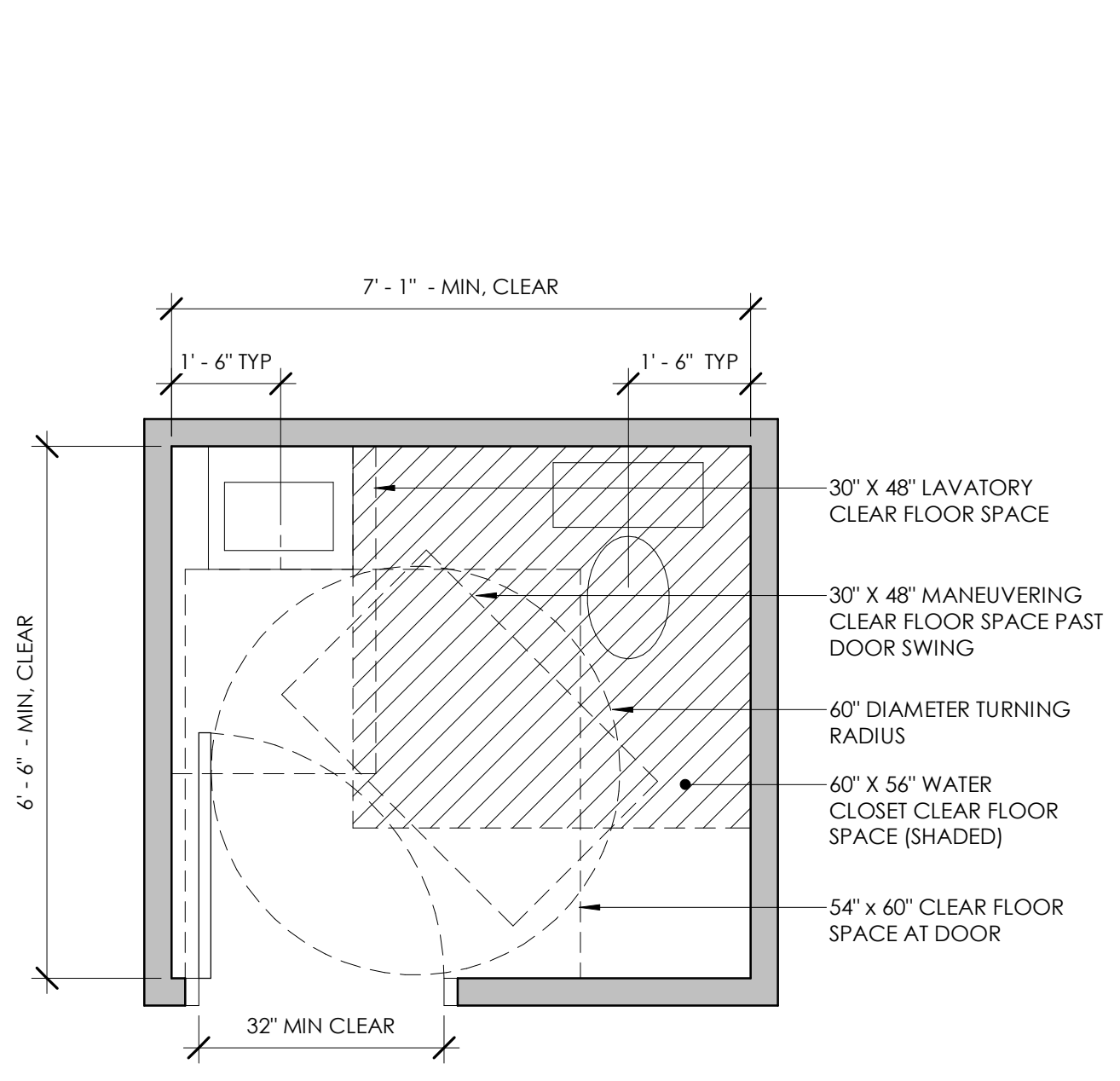
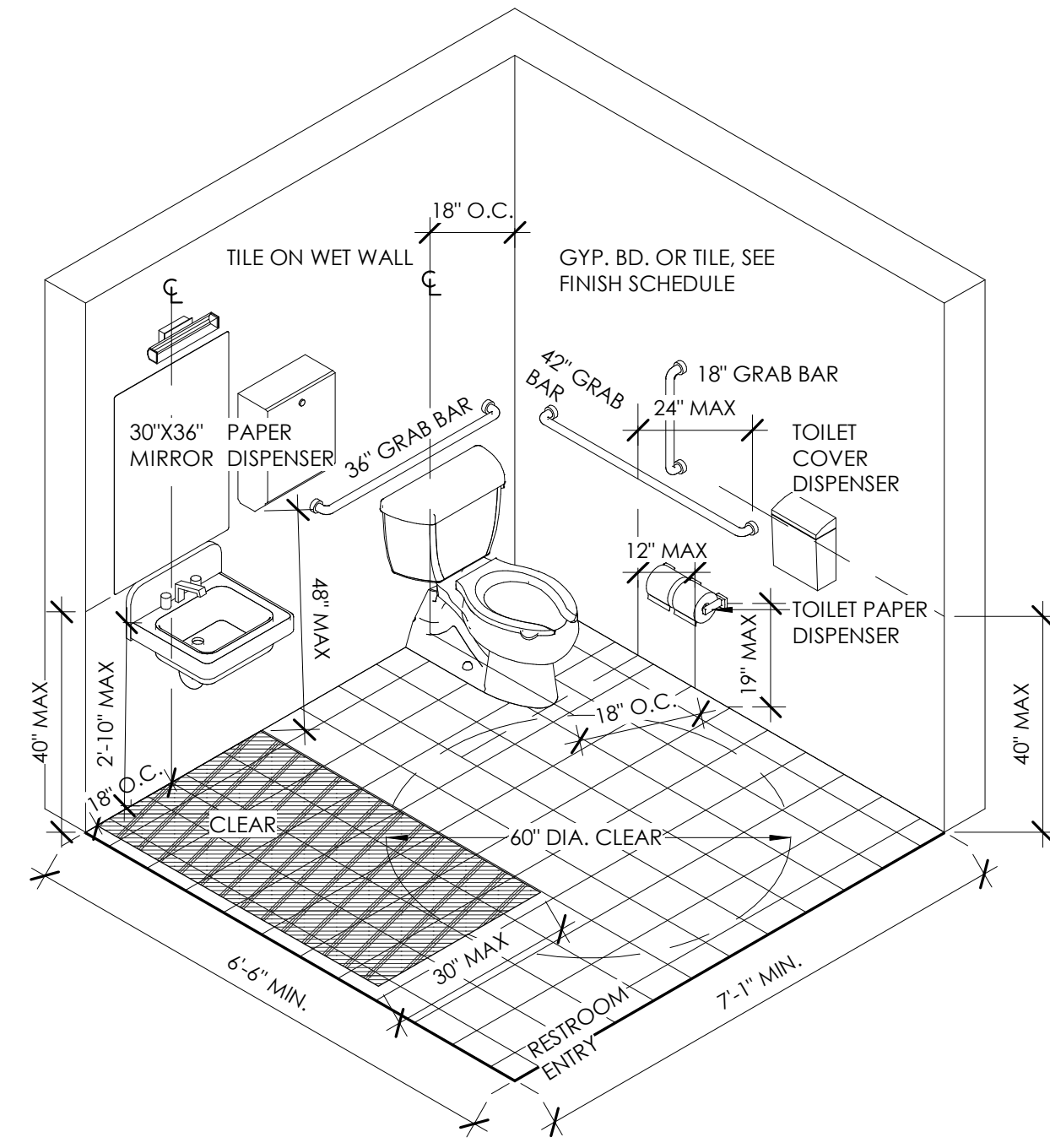
REVISION

DRAWN BY CMN  
DATE 1/6/2024 9:52:09 PM  
SCALE As indicated  
STAMP

PROJECT NUMBER  
2022.034

MOUNTING HEIGHTS + ABBREVIATIONS

**T002**

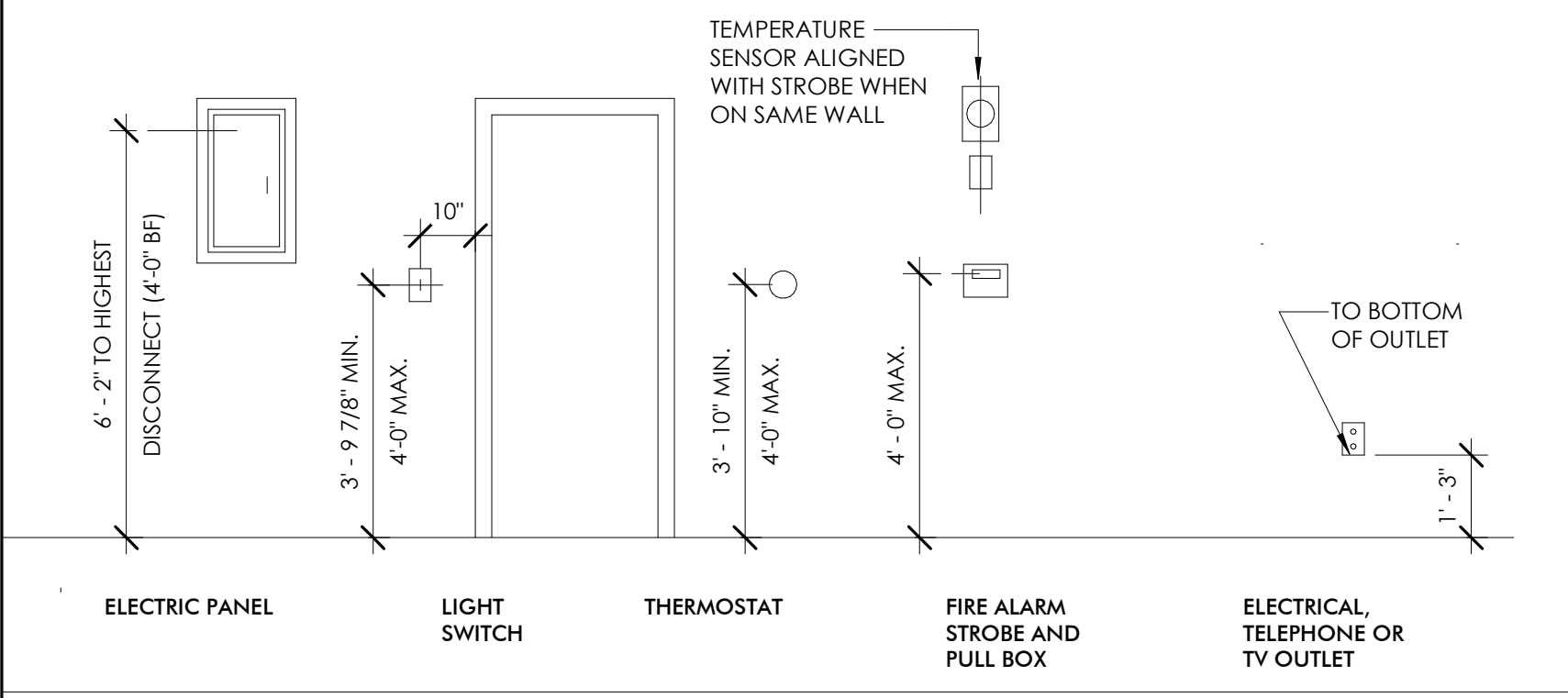


\*NOTE: PROVIDE BLOCKING AS REQUIRED FOR ALL GRAB BARS AND FIXTURE MOUNTING PER MANUFACTURER'S RECOMMENDATION

LAVATORY NOT CENTERED ON 30 X 48 CLEAR AREA

LAVATORY WIDTH	MIN. ROOM WIDTH
20"	6'-11"
21"	7'-0"
22"	7'-1"

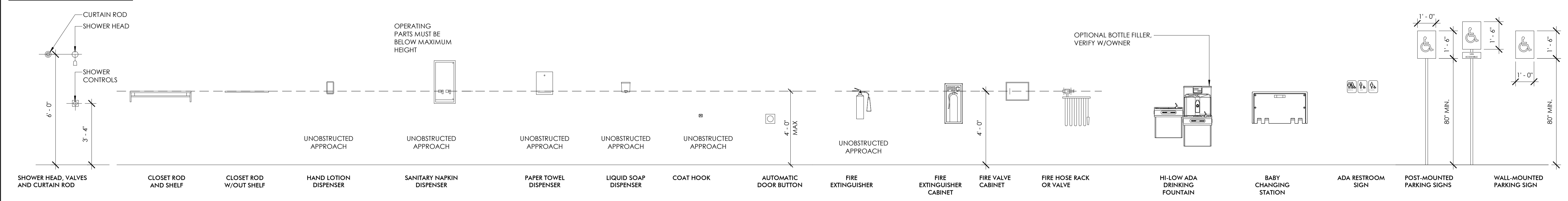
**ELECTRICAL DETAILS**



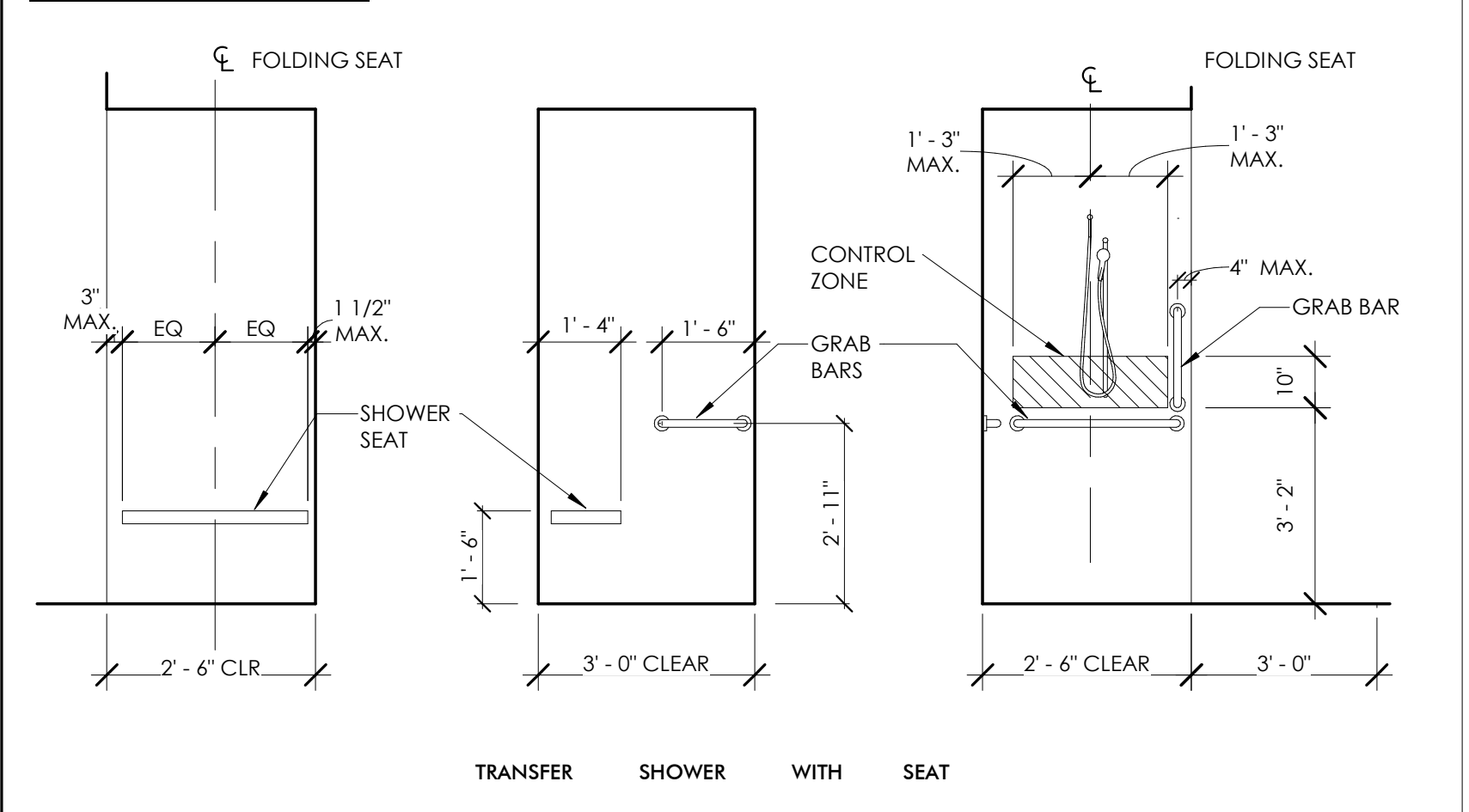
**ACCESSORIES SCHEDULE**

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
GB-1	18" VERTICAL GRAB BAR	BRADLEY CORP.	812-001-18	
GB-2	36" GRAB BAR	BRADLEY CORP.	812-001-36	
GB-3	42" GRAB BAR	BRADLEY CORP.	812-001-42	
MI-1	MIRROR	BRADLEY CORP.	748-2436	
PTD-1	PAPERTOWEL DISPENSER	BRADLEY CORP.	250-15	
SD-1	SOAP DISPENSER	BRADLEY CORP.	6562	
SND-1	SANITARY NAPKIN DISPOSAL	BRADLEY CORP.	4A10	
TID-1	TOILET TISSUE DISPENSER	BRADLEY CORP.	5084	

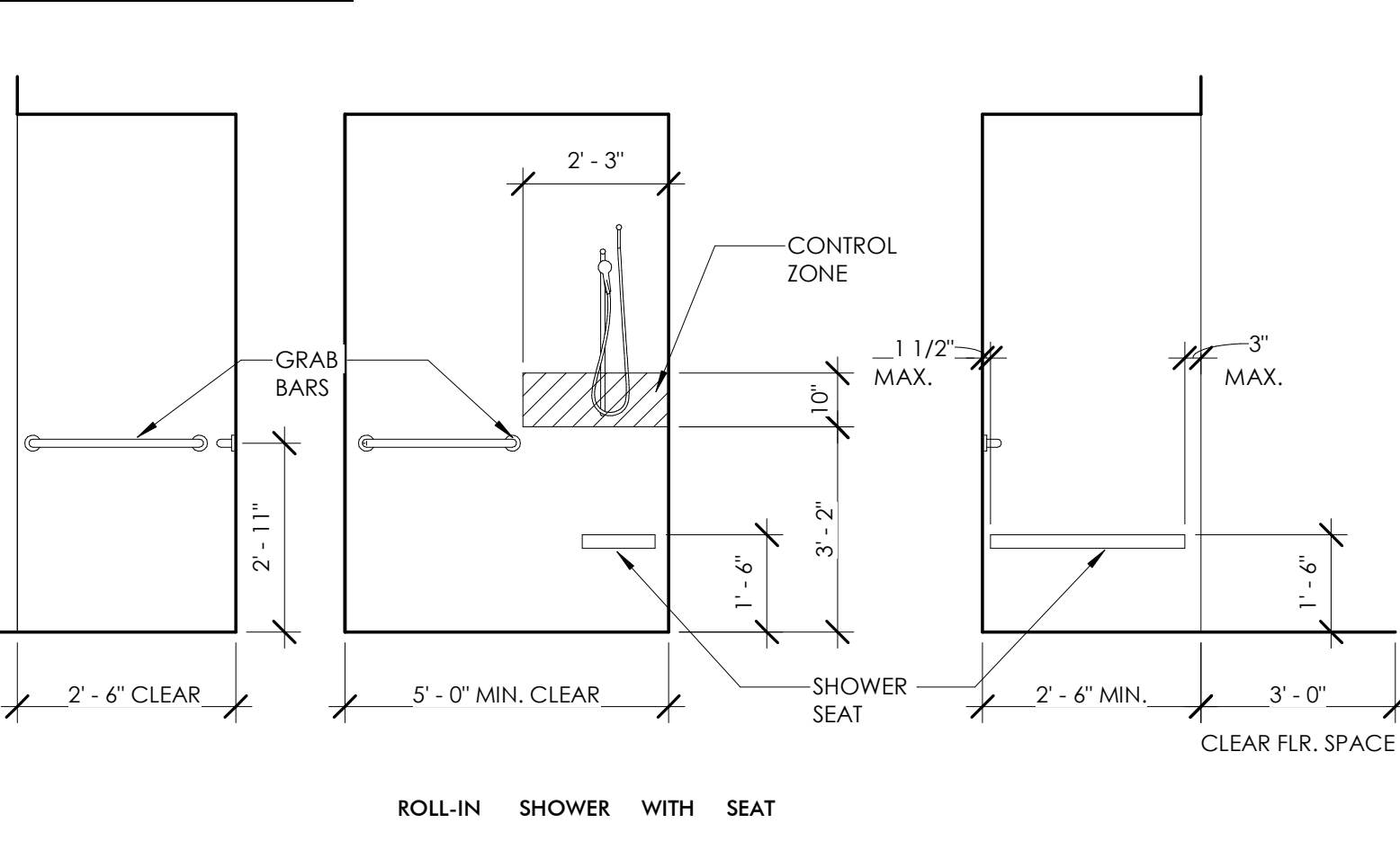
**MOUNTING HEIGHTS**



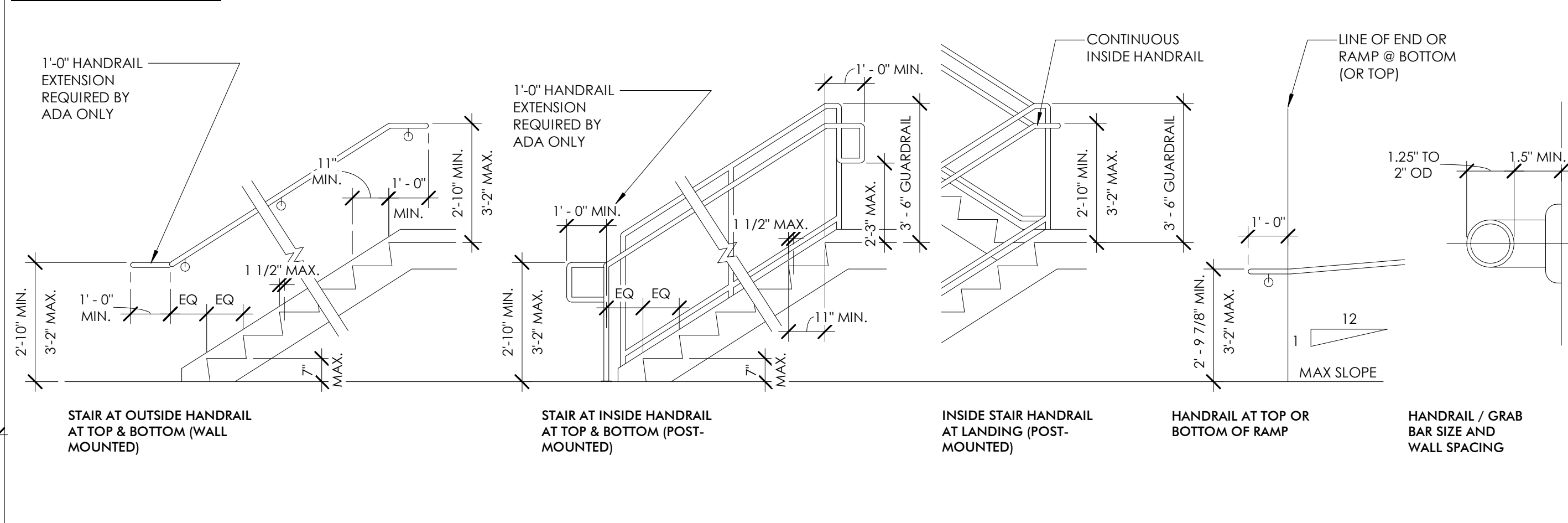
**SHOWER DETAILS**



**SHOWER DETAILS**



**RAILING DETAILS**



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 PROJECT ADDRESS: 708 N BURDICK, KALAMAZOO, MI  
 CLIENT: KYLE GULAU

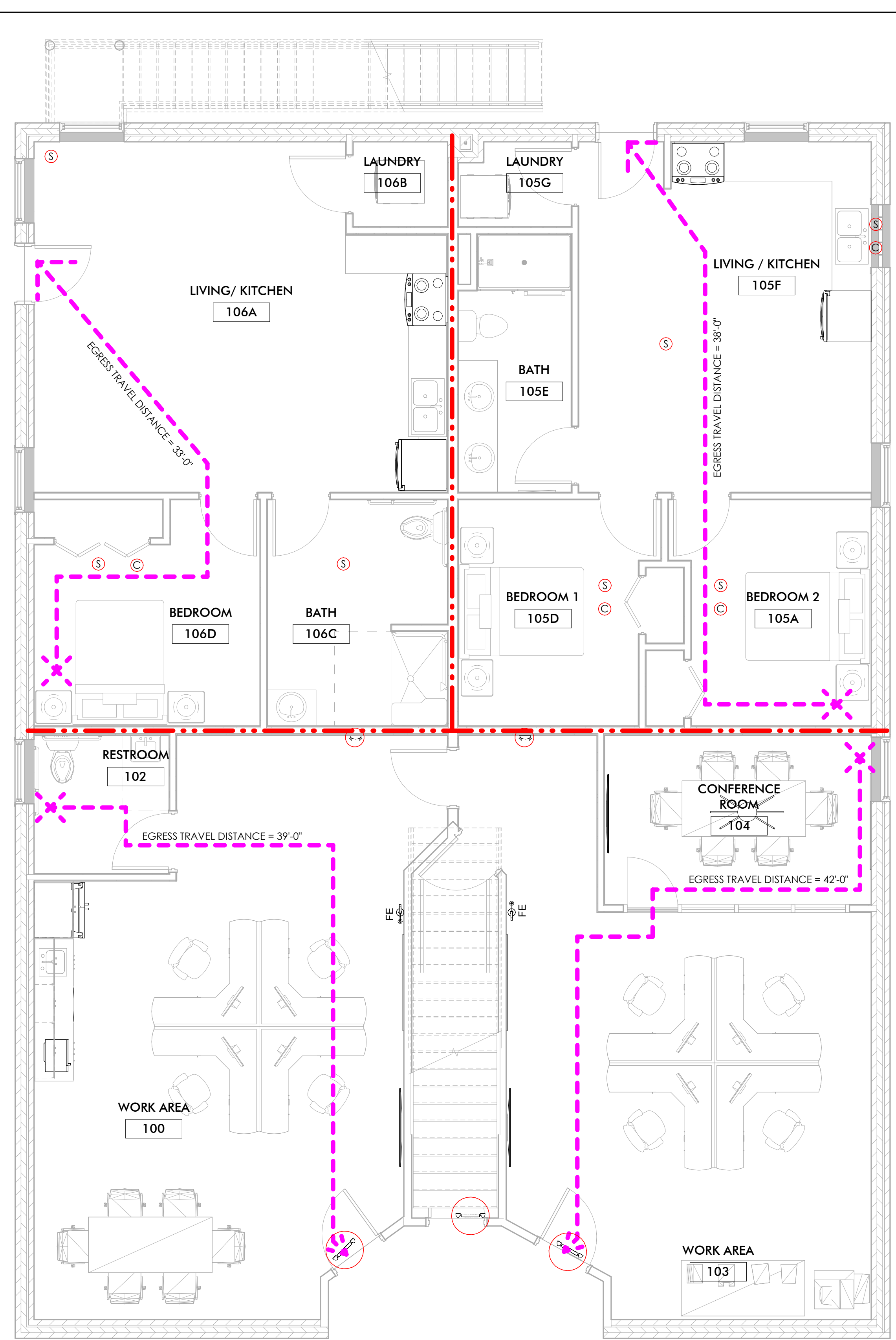
ISSUE: CONSTRUCTION DOCUMENTS

REVISION:

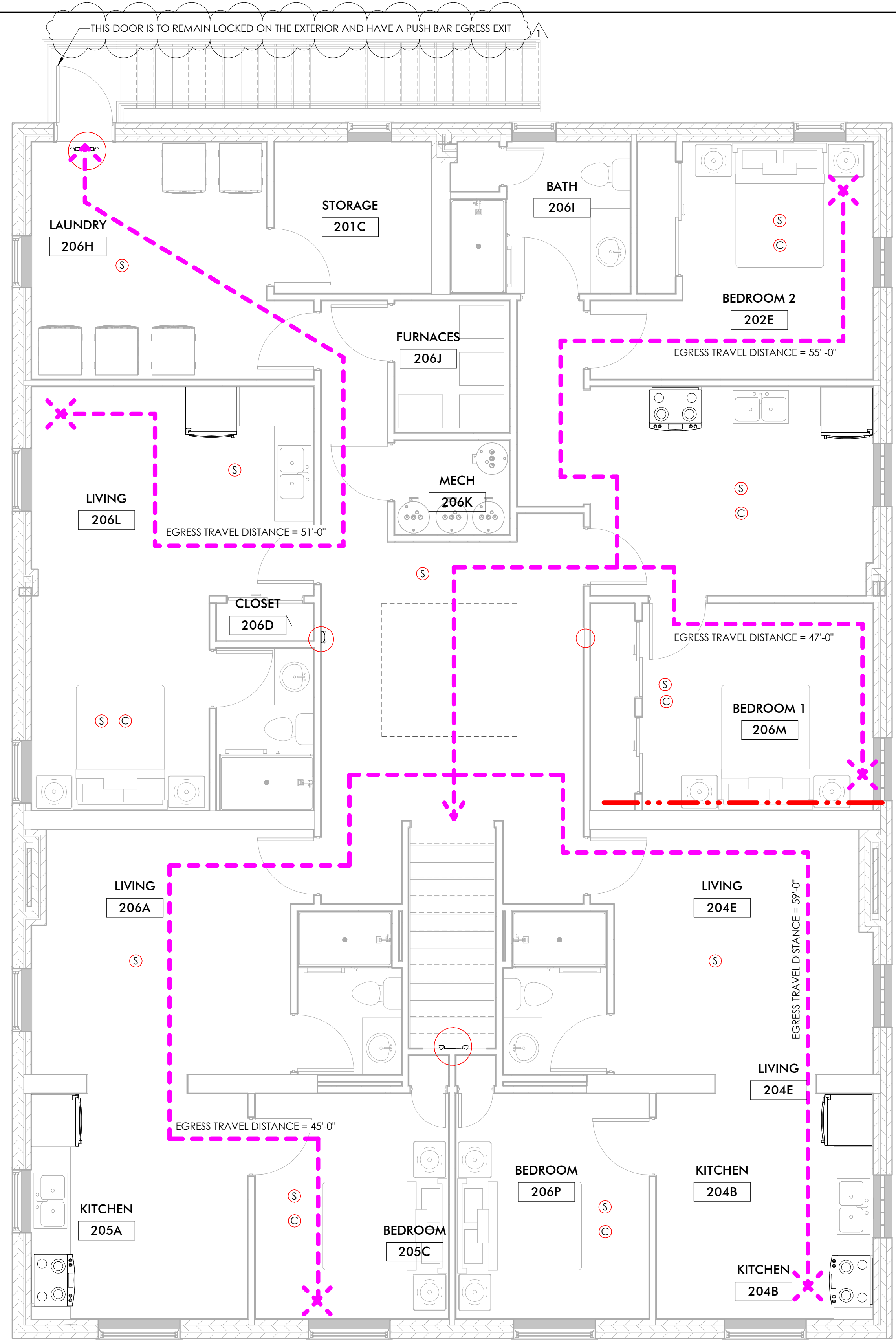
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PROJECT NUMBER: 2022.034

MOUNTING HEIGHTS CONTINUED



**1** FIRST FLOOR COMPLIANCE PLAN  
 1/4" = 1'-0"



**2** SECOND FLOOR COMPLIANCE PLAN  
 1/4" = 1'-0"

**COMPLIANCE LEGEND**

SYMBOL	ITEM
FE	FIRE EXTINGUISHER
EXIT SIGN	EXIT SIGN W/ EGRESS LIGHTS
EGRESS LIGHTING	EGRESS LIGHTING
TRAVEL DISTANCE	TRAVEL DISTANCE
1 HOUR WALL	1 HOUR WALL
2 HOUR WALL	2 HOUR WALL
SD	SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR

**CODE COMPLIANCE**

TOPIC	SECTION	ALLOWED/REQUIRED	ACTUAL
<b>APPLICABLE CODES</b>			
2015 INTERNATIONAL FIRE CODE			
2015 MICHIGAN BUILDING CODE			
2015 MICHIGAN MECHANICAL CODE			
2015 MICHIGAN PLUMBING CODE			
2015 MICHIGAN REHABILITATION CODE	505	LEVEL 3 ALTERATION	INTERIOR RENOVATION EXCEEDING 50%
2017 NATIONAL ELECTRICAL CODE			
ANSI/ASHRAE 90.1-2013			
ICC/ANSI 117.1-2009			
NFPA 13 (2013) + NFPA 72 (2013)			
ZONING	CITY OF KALAMAZOO		LV-1
<b>1 - SCOPE AND ADMIN</b>			
DEFERRED SUBMITTALS	107.3.4.1		THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT
DESIGN PROFESSIONAL IN CHARGE	107.3.4		CODY NEWMAN IS TO BE THE DESIGN PROFESSIONAL IN CHARGE
SPECIAL INSPECTIONS	110		THERE ARE NO SPECIAL INSPECTIONS FOR THIS PROJECT
<b>3 - USE</b>			
BUILDING USE	304 + 310	BEFORE - VACANT	AFTER - B + R-2
3 - AREA BY USE			
BUSINESS			1,204 SF
RESIDENTIAL			4,170 SF
<b>3 - GROSS BUILDING AREA</b>			
1 - FIRST FLOOR			2,805 SF
2 - SECOND FLOOR			2,742 SF
TOTAL			5,547 SF
<b>5 - GENERAL BUILDING HEIGHTS AND AREAS</b>			
ALLOWABLE BUILDING HEIGHT	TABLE 504.3	75 FEET	75 FEET
BASE STORIES ALLOWED	TABLE 504.4	4 STORIES	2 STORIES
REQUIRED SEPARATION OF OCCUPANCIES	TABLE 508.4	1 HOUR	1 HOUR
TABULAR AREA	TABLE 506.2	76,000 SF	48,000 SF
<b>6 - TYPE OF CONSTRUCTION</b>			
TYPE OF CONSTRUCTION	TABLE 601		III-B
<b>7 - FIRE AND SMOKE PROTECTION</b>			
SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS REQUIRED IN ALL UNITS AND COORIDORS			
<b>9 - FIRE PROTECTION SYSTEMS</b>			
AUTOMATIC SPRINKLER SYSTEM	903.2.1.3	REQUIRED	PROVIDED
FIRE ALARM AND DETECTION SYSTEMS	907	REQUIRED	PROVIDED
<b>10 - MEANS OF EGRESS</b>			
DOOR EGRESS WIDTH	1005.3.2	36" PER UNIT	PROVIDED
EXIT ACCESS TRAVEL DISTANCE	TABLE 1017.2	250 FEET	55' - 6"
NUMBER OF EXITS	TABLE 1006.3.1	2 EXITS	PROVIDED
STAIR EGRESS WIDTH	1005.3.1	3' - 0"	10' - 4"
<b>10 - OCCUPANCY</b>			
OCCUPANCY	TABLE 1004.1.2	1,204 SF / 100	13 PEOPLE
OCCUPANCY	TABLE 1004.1.2	4,170 SF / 200	21 PEOPLE
TOTAL OCCUPANT LOAD			34 PEOPLE
<b>15 - ROOF ASSEMBLY</b>			
	1501.1		NEW 60 MIL WHITE TPO RUBBER ROOF
<b>27 - ELECTRICAL</b>			
EMERGENCY LIGHTING	1008.1	WILL COMPLY	ON COMPLIANCE DRAWINGS
EMERGENCY POWER	1008.3.2.1 1008.3.3	WILL COMPLY	ON COMPLIANCE DRAWINGS
EXIT SIGNS	1011.1	WILL COMPLY	ON COMPLIANCE DRAWINGS
<b>28 - PLUMBING</b>			
DRINKING FOUNTAIN REQUIREMENTS	410	NOT REQUIRED, LESS THAN 15 PEOPLE IN OFFICE	NOT PROVIDED
LAVATORY REQUIREMENTS	TABLE 403.1	1 UNISEX	1 UNISEX
SERVICE SINK REQUIREMENTS	TABLE 403.1	NOT REQUIRED, LESS THAN 15 PEOPLE IN OFFICE	NOT PROVIDED
WATER CLOSETS REQUIREMENTS	TABLE 403.1	1 UNISEX	1 UNISEX

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**CLIENT**  
KYLE GULAU

**ISSUE**  
CONSTRUCTION DOCUMENTS

**REVISION**

**DRAWN BY** CMN

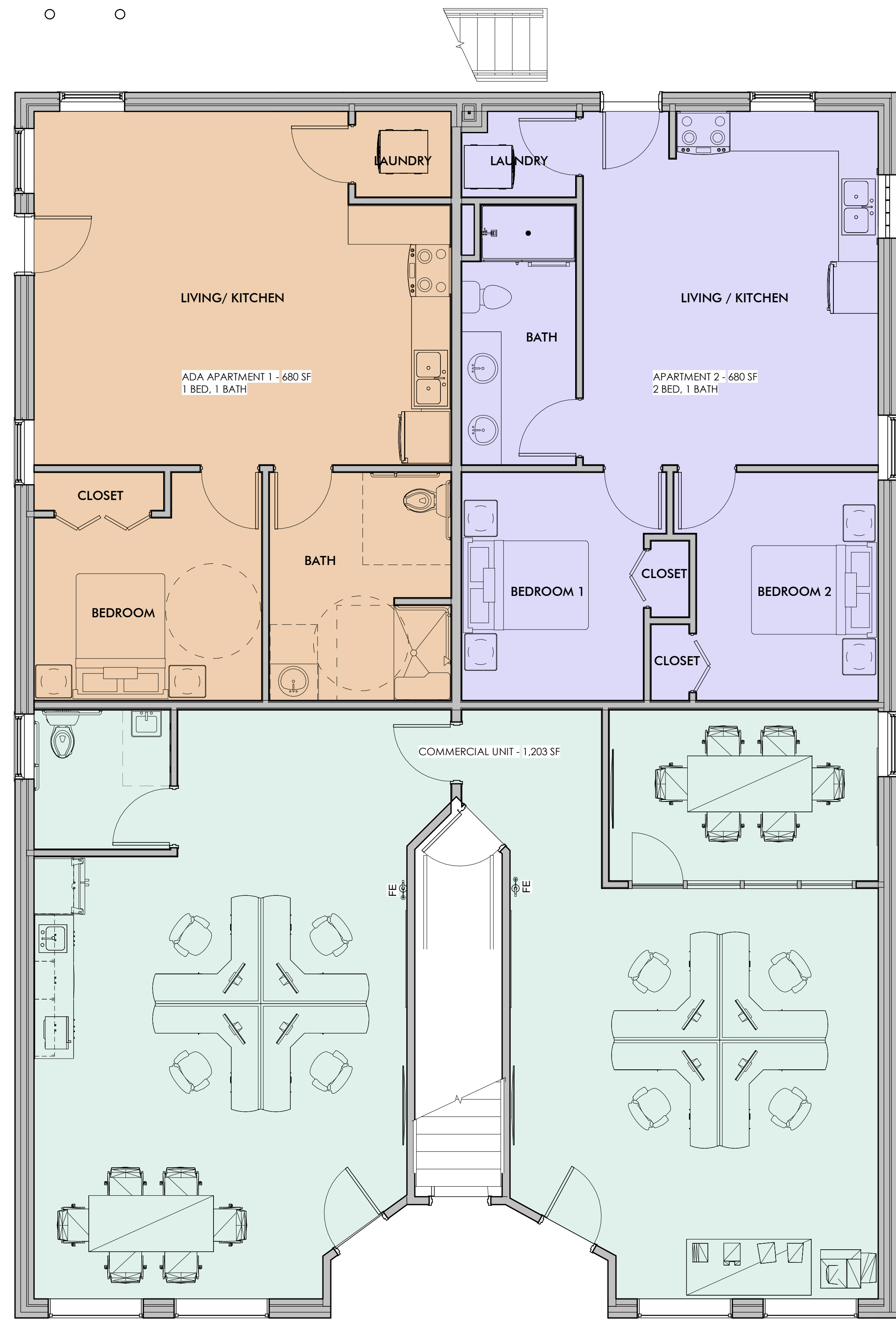
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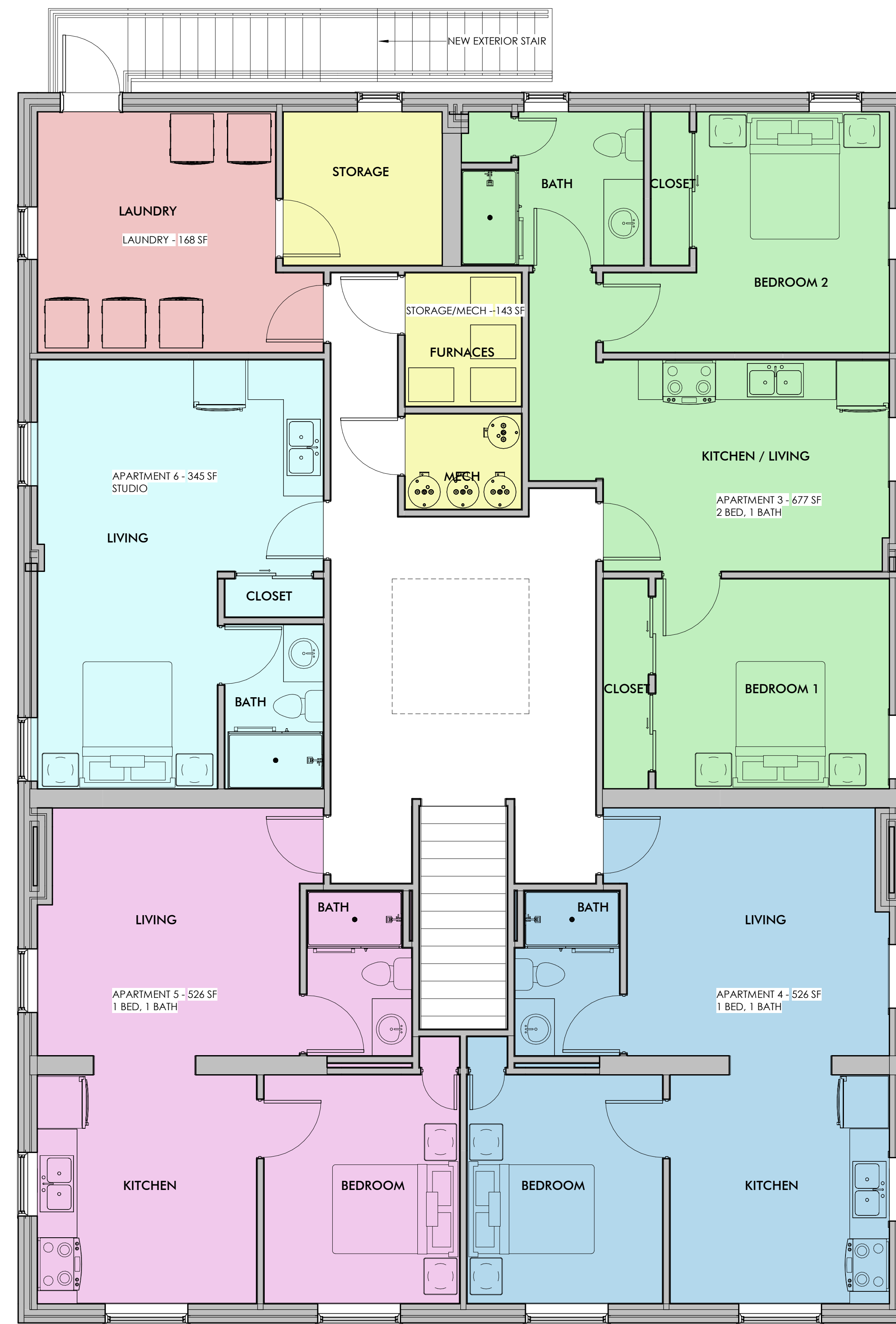
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**CODE COMPLIANCE**  
**T004**



**1 FIRST FLOOR PLAN**  
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**2 SECOND FLOOR PLAN**  
 1/4" = 1'-0"

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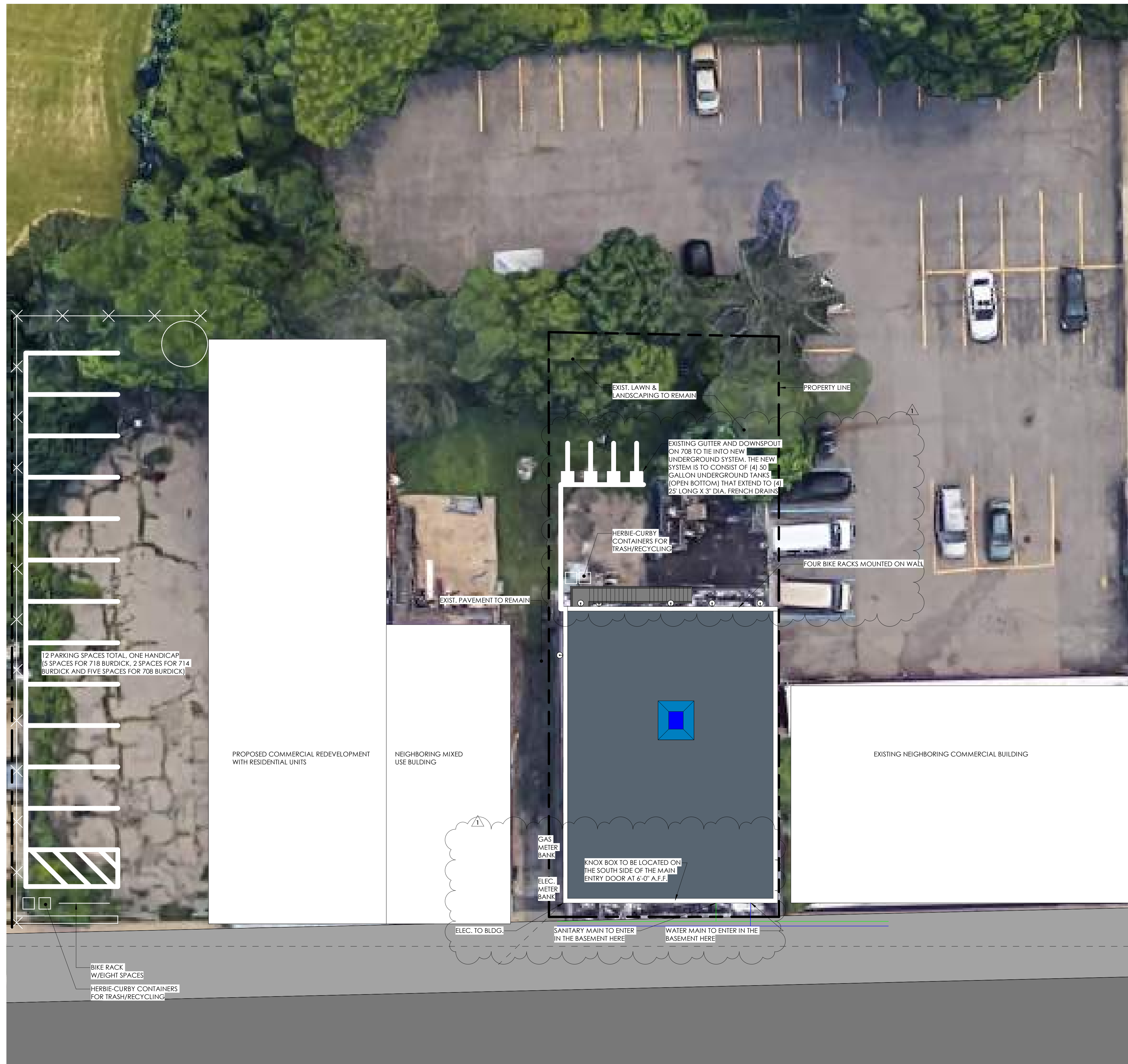
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AREA PLANS  
**T005**



**GENERAL NOTES**

- EXISTING BUILDING TO REMAIN ON THE EXISTING SITE
- THE UTILITIES THAT ARE CURRENTLY CONNECTED TO THE BUILDING ARE TO REMAIN
- CONTACT MISS DIG TO LOCATE ALL EXISTING UTILITIES BEFORE DOING ANY SITE WORK
- PATCH EXISTING ASPHALT PARKING LOT AS REQUIRED, RESTRIPE PARKING LOT IF REQUIRED
- EXISTING VEGETATION TO REMAIN ON THE SITE, TRIM AS REQUIRED
- WORK WITHIN THE STREET TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION.
- PERMITS, TESTING, BONDS & INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. CITY INSPECTION FEES SHALL BE PAID FOR BY THE OWNER.

**PARKING REQUIREMENTS**

5 PARKING SPACES ARE TO BE DEDICATED FOR THIS PROJECT ON THE SPECIFIED LOT ON THE SITE PLAN.

1 BIKE SPACE IS REQUIRED PER FIVE UNITS AND ONE PER SEVEN EMPLOYEES. THREE TOTAL BIKE RACK SPACES WOULD BE REQUIRED FOR THIS PROJECT. FOUR SPACES WILL BE PROVIDED.

**LEGAL DESCRIPTION**

38364 T C SHELDONS ADDITION, LIBER 3 OF PLATS PAGE 16; THE NORTH 56.5FT OF THE SOUTH 137FT OF LOT 11 IN BLOCK 44, THE NORTH 56.5FT OF THE SOUTH 137FT OF LOT 12 IN BLOCK 44. ALSO HISTORICALLY DESCRIBED AS T C SHELDON ADDITION, LIBER 3 OF PLATS PAGE 16; THE NORTH 52FT 11 INCHES OF THE SOUTH 133FT 05 INCHES OF LOT 11 IN BLOCK 44 & THE NORTH 52FT 11 INCHES OF THE SOUTH 133FT 05 INCHES OF LOT 12 IN BLOCK.

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**ARCHITECTURAL SITE PLAN**

**C100**

**GENERAL NOTES**

EXISTING PLANS AND DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. THERE IS NO PROPOSED WORK IN THE BASEMENT AS PART OF THIS PROJECT

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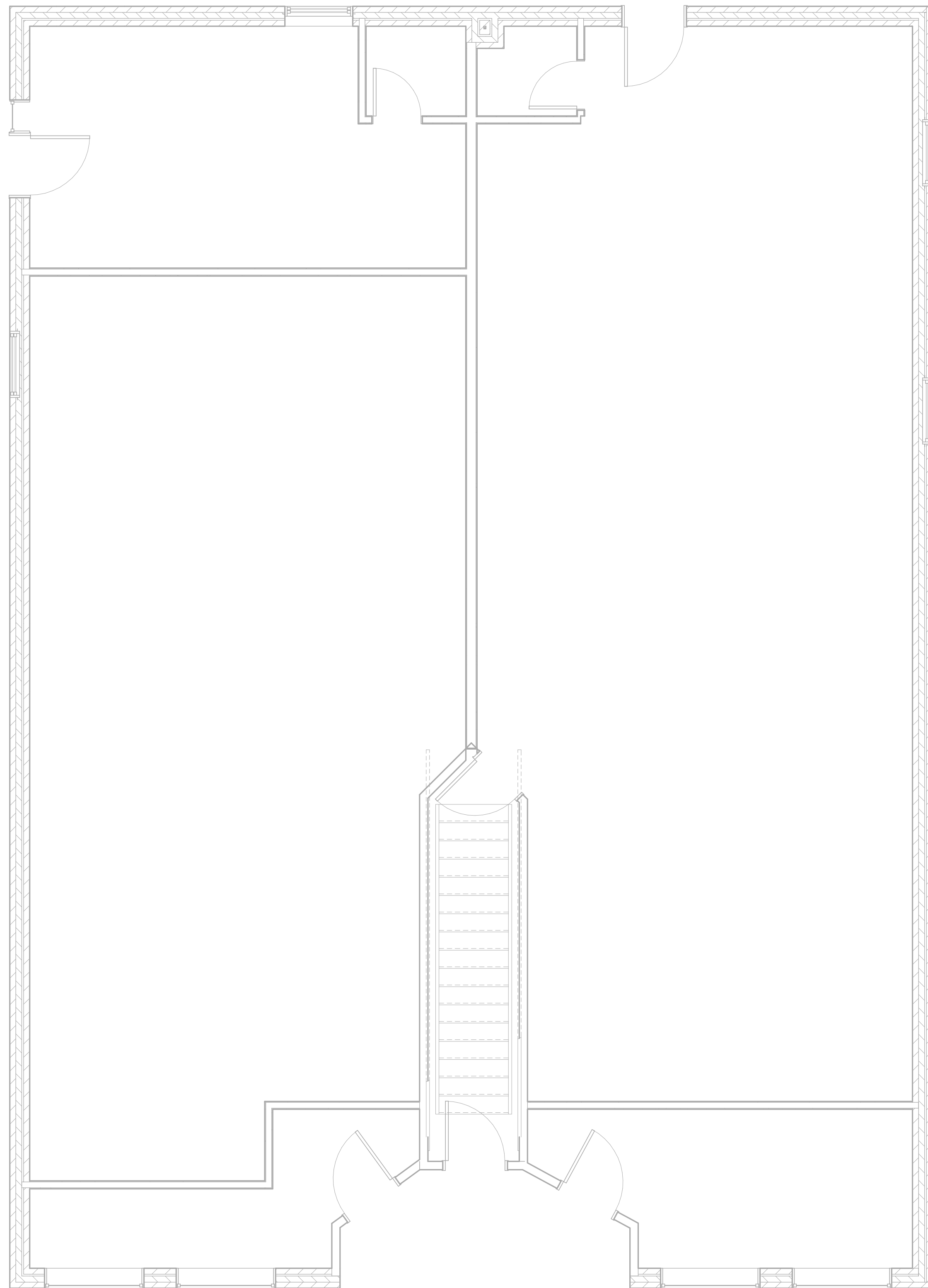
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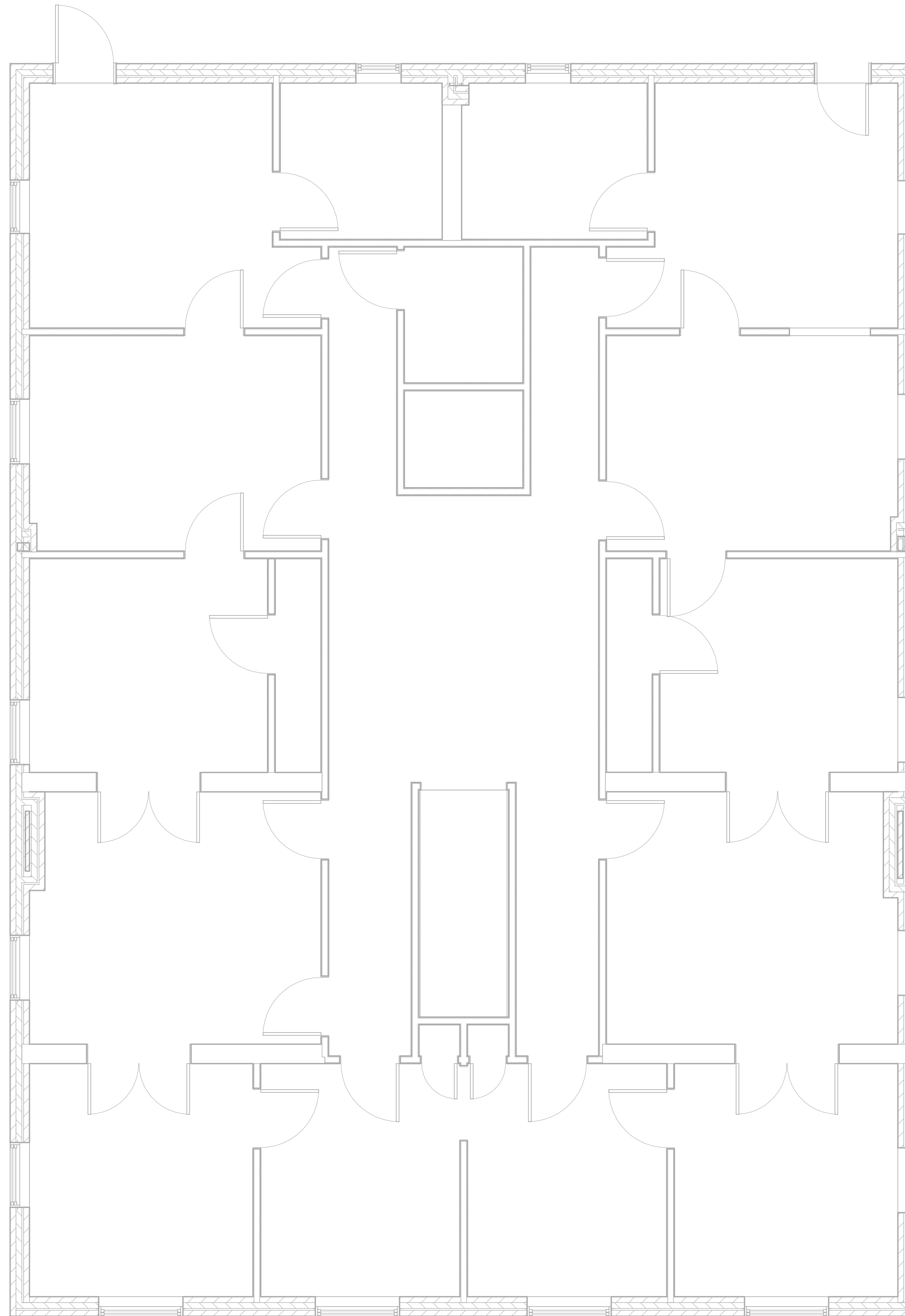
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EXISTING FLOOR PLANS

**A000**



**1** FIRST FLOOR EXISTING PLAN  
 A000 1/4" = 1'-0"



**2** SECOND FLOOR EXISTING PLAN  
 A000 1/4" = 1'-0"



**DEMOLITION NOTES**

1. REMOVE ALL DASHED WALLS, WINDOWS, AND DOORS COMPLETELY.
2. OWNER TO REMOVE ALL FURNISHINGS/ EQUIPMENT THAT THEY WISH TO RETAIN FROM THE AREAS OF DEMOLITION/ CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION WORK IN EACH AREA. OWNER TO COORDINATE WITH CONTRACTOR REGARDING THE TIME SCHEDULE FOR THIS TO BE COMPLETED.
3. PATCH AND FILL ANY HOLES IN THE WALL CAUSED BY THE REMOVAL OF DOORS, WINDOWS, OR WALLS TO MATCH SURROUNDINGS.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURFACES NOT BEING REMODELED IN THE PROJECT AND IN THE PATH OF THE CONTRACTORS TRAVEL, SETUP AND/ OR PROJECT MATERIAL STORAGE. THE CONTRACTOR MUST RETURN THE AREAS DISTURBED AS REQUIRED FOR ACCESS TO ITS PRE-EXISTING CONDITION.
5. ANY HAZARDOUS MATERIALS ARE TO BE REMOVED BY A LICENSED PROFESSIONAL IN THE STATE OF MICHIGAN.
6. ALL SAFETY ISSUES RELATED TO DEMOLITION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST COMPLY WITH ALL STATE, LOCAL, ENVIRONMENTAL AND LABOR LAWS DURING THE CONSTRUCTION OF THIS PROJECT.
7. SEQUENCE DEMOLITION WITH STRUCTURAL WORK TO ASSURE SAFETY. PROVIDE SHORING AS REQ'D TO ENSURE SAFE CONDITIONS EXIST. SHORING IS NOT SHOWN ON PLANS. STRUCTURAL ELEMENTS ARE TO REMAIN, UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
8. ALL TRADES TO COORDINATE BETWEEN ONE ANOTHER TO AVOID CONFLICTS.
9. NOTATIONS ARE MADE IN VARIOUS PLACES ON THE DRAWINGS TO CALL ATTENTION TO DEMOLITION WHICH IS REQUIRED. THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL MATERIALS RELATED TO THEIR RESPECTIVE TRADES AS REQUIRED TO PERMIT THE CONSTRUCTION OF THE NEW WORK AS SHOWN.
10. THE CONTRACTOR SHOULD TAKE CARE DURING THE PROJECT TO NOT INTERRUPT THE USE IN AREAS NOT IN SCOPE.
11. PRIOR TO ANY DIGGING ON OR AROUND THE SITE UTILITIES ARE TO BE LOCATED USING MISS DIG.
12. ALL RUBBISH AND DEBRIS FROM DEMOLITION IS TO BE REMOVED IMMEDIATELY FROM THE SITE AFTER DEMOLITION. COORDINATE ALL DEMOLITION, DUMPSTER LOCATIONS, BARRICADING, PEDESTRIAN PROTECTION MEASURES, ETC. WITH THE OWNER AND LOCAL MUNICIPALITY PRIOR TO COMMENCEMENT.
13. REMOVE ALL LIGHTING, WIRING, FIRE ALARM DEVICES, RECEPTACLES, AND SPEAKERS FROM WALLS AND CEILINGS BEING REMOVED. COORDINATE WITH ARCHITECT AS REQUIRED. REMOVE ALL ABANDONED EXPOSED CONDUIT AND WIRING BACK TO SOURCE. REMOVE WIRING BACK TO PANEL OR NEAREST JUNCTION BOX. RE-LABEL CIRCUIT BREAKER AS SPARE. IN SCOPE OF WORK.
14. PROVIDE BLANK COVERPLATE OVER EMPTY OUTLET BOXES IF DEVICE IS REMOVED AND NOT REPLACED.
15. REMOVE ALL EXISTING HVAC, FIRE PROTECTION AND PLUMBING EQUIPMENT, PIPING BACK TO MAIN AND ALL ASSOCIATED ACCESSORIES. SANITARY, STORM, AND VENT STACKS TO REMAIN. CAP ANY UNUSED AREAS.
16. SALVAGE MATERIALS AS REQUIRED IF PART OF THE SCOPE IS MATCHING MATERIALS OR INFILL MATERIALS AS PART OF A RENOVATION PROJECT.
17. REMOVE ALL CEILINGS AND FLOOR FINISHES IN AREAS OF DEMOLITION U.N.O.
18. ALL EXISTING COLUMNS AND STRUCTURAL ELEMENTS TO REMAIN. ANY DISCREPANCIES THAT OCCUR IN THE FIELD DURING DEMOLITION SHOULD BE BROUGHT TO THE ARCHITECTS ATTENTION.
19. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE TO BROOM CLEAN AT ALL TIMES.
20. THE OWNER WILL MAINTAIN OCCUPANCY OF SPACES ADJACENT TO AREAS OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL POTENTIALLY DISRUPTIVE ACTIVITIES WITH THE OWNER.

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 CLIENT  
KYLE GULAU

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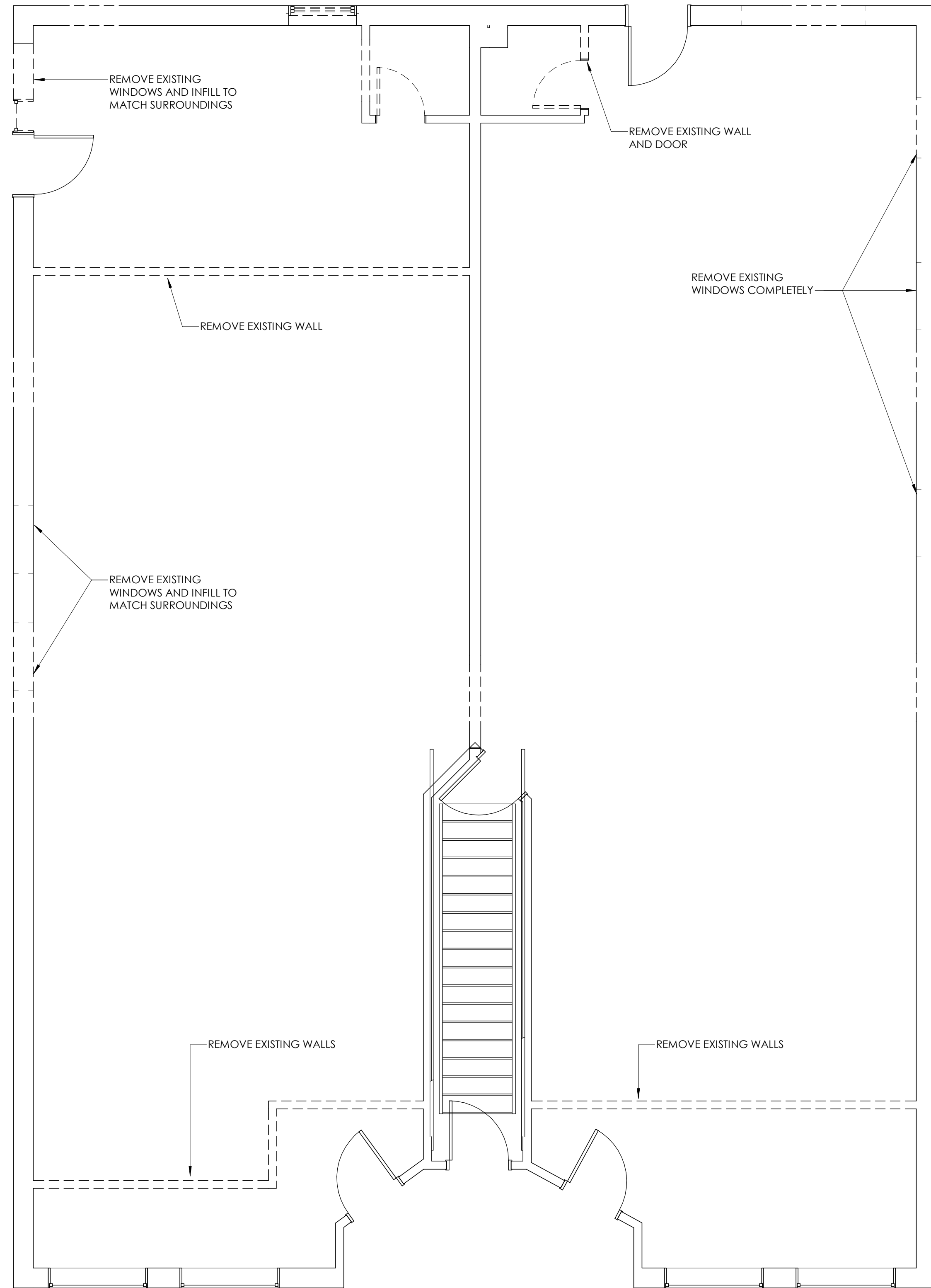
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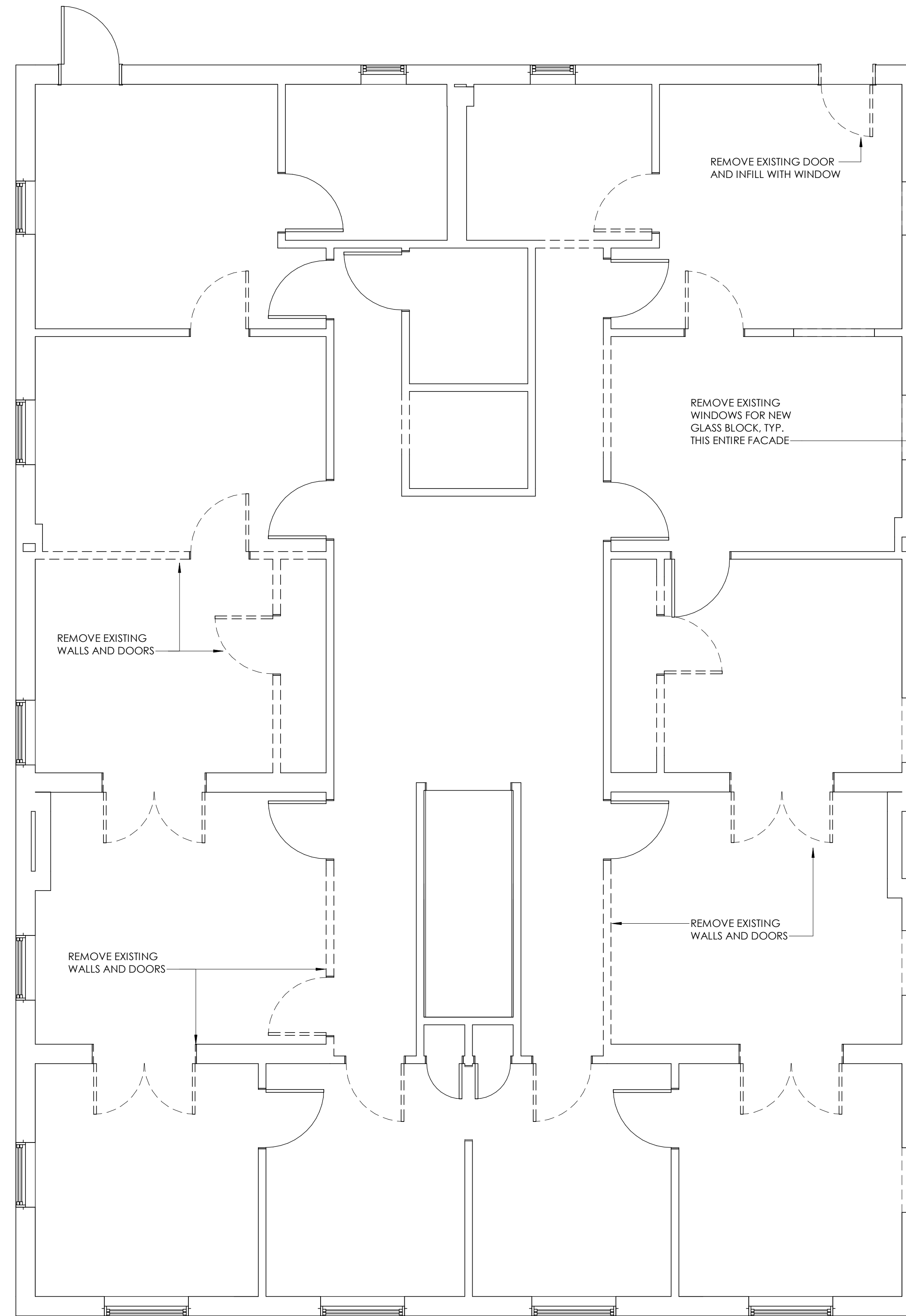
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DEMOLITION PLANS

**A110**



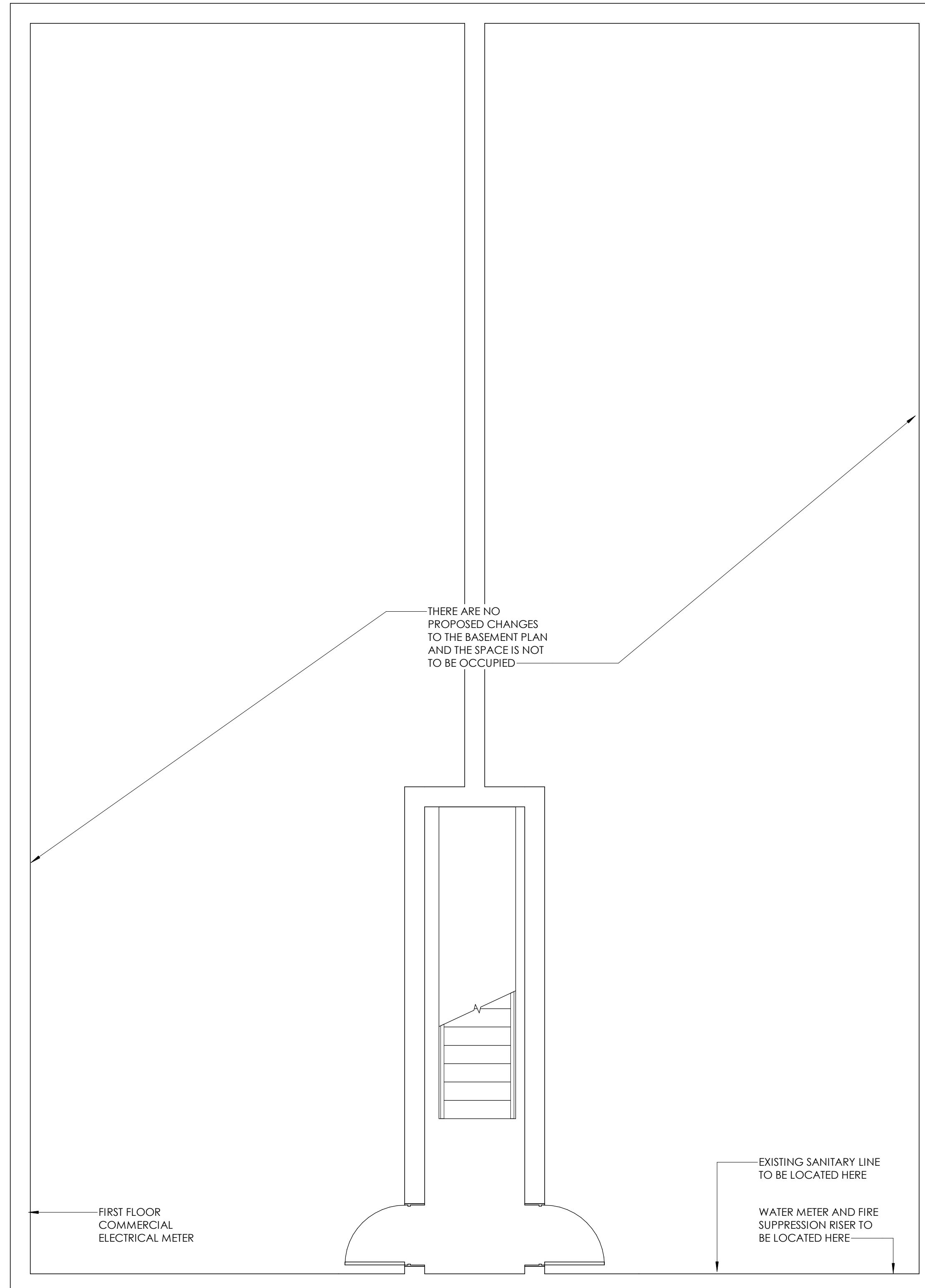
**1 FIRST FLOOR DEMOLITION PLAN**  
 1/4" = 1'-0"



**2 SECOND FLOOR DEMOLITION PLAN**  
 1/4" = 1'-0"

**GENERAL NOTES**

1. ALL GYPSUM BOARD THROUGHOUT IS TO BE 5/8" TYPE-X AS A MINIMUM.
2. ALL EXISTING INTERIOR WALLS THAT ARE TO REMAIN ARE TO BE PATCHED AS REQUIRED FROM NEW UTILITIES OR GENERAL CONSTRUCTION.
3. INFILL OF EXISTING WALL OPENINGS IS TO RESULT IN FLUSH FINISHES ON BOTH SIDES OF THE WALL, UNLESS OTHERWISE NOTED, USE APPROPRIATE STUD FRAMING TO ACHIEVE DESIRED FINISH.
4. INSTALL WOOD BLOCKING IN WALLS AS NECESSARY FOR INSTALLATION OF ALL CASEWORK, MIRRORS, TOWEL BARS, SHOWER CURTAIN RODS, TOILET PAPER DISPENSERS, PAPER TOWEL HOLDERS, TOILET PARTITIONS, RAILINGS, AND ANY OTHER ACCESSORIES.
5. PROVIDE CEMENT BOARD IN LIEU OF GYPSUM BOARD AT ALL BATHTUB, SHOWER, AND KITCHEN LOCATIONS TO RECEIVE WALL TILE. COORDINATE WITH INTERIORS.
6. DRAWINGS ESTABLISH THE DESIGN INTENT OF WORK TO BE PERFORMED. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL TRADES SHALL CAREFULLY COORDINATE WORK OF ALL OTHER TRADES. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND THE OWNER PRIOR TO FABRICATION OR INSTALLATION.
7. COORDINATE SIZE AND LOCATION OF ALL EQUIPMENT SUPPORTS INCLUDING BUT NOT RESTRICTED TO CONCRETE HOUSEKEEPING PADS WITH APPROPRIATE EQUIPMENT MANUFACTURER.
8. VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR ALL DISCIPLINES INCLUDING BUT NOT RESTRICTED TO MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
9. VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR ALL DISCIPLINES INCLUDING BUT NOT RESTRICTED TO MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE.
10. DIMENSIONS PRECEDED BY +/- SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECT'S REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
11. BATHROOM MIRRORS AND LIGHT FIXTURES ABOVE VANITIES SHALL BE CENTERED ON THE SINKS.



**1** BASEMENT FLOOR PLAN  
 A120 1/4" = 1'-0"

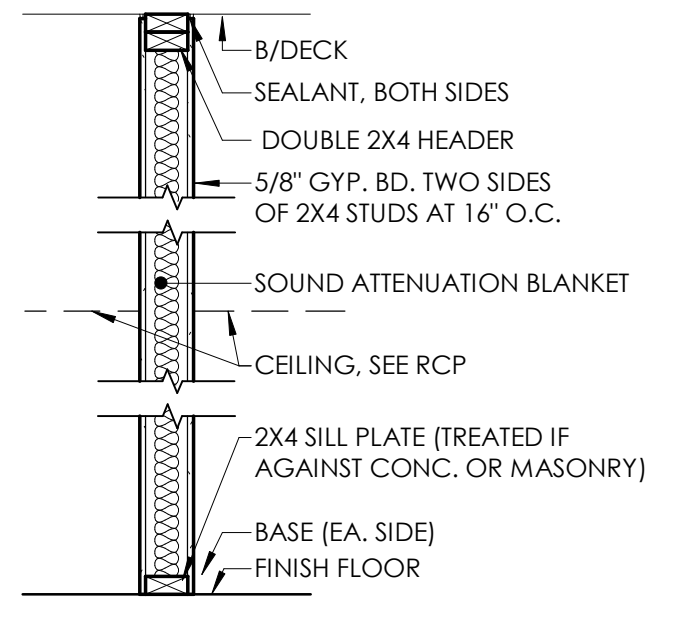
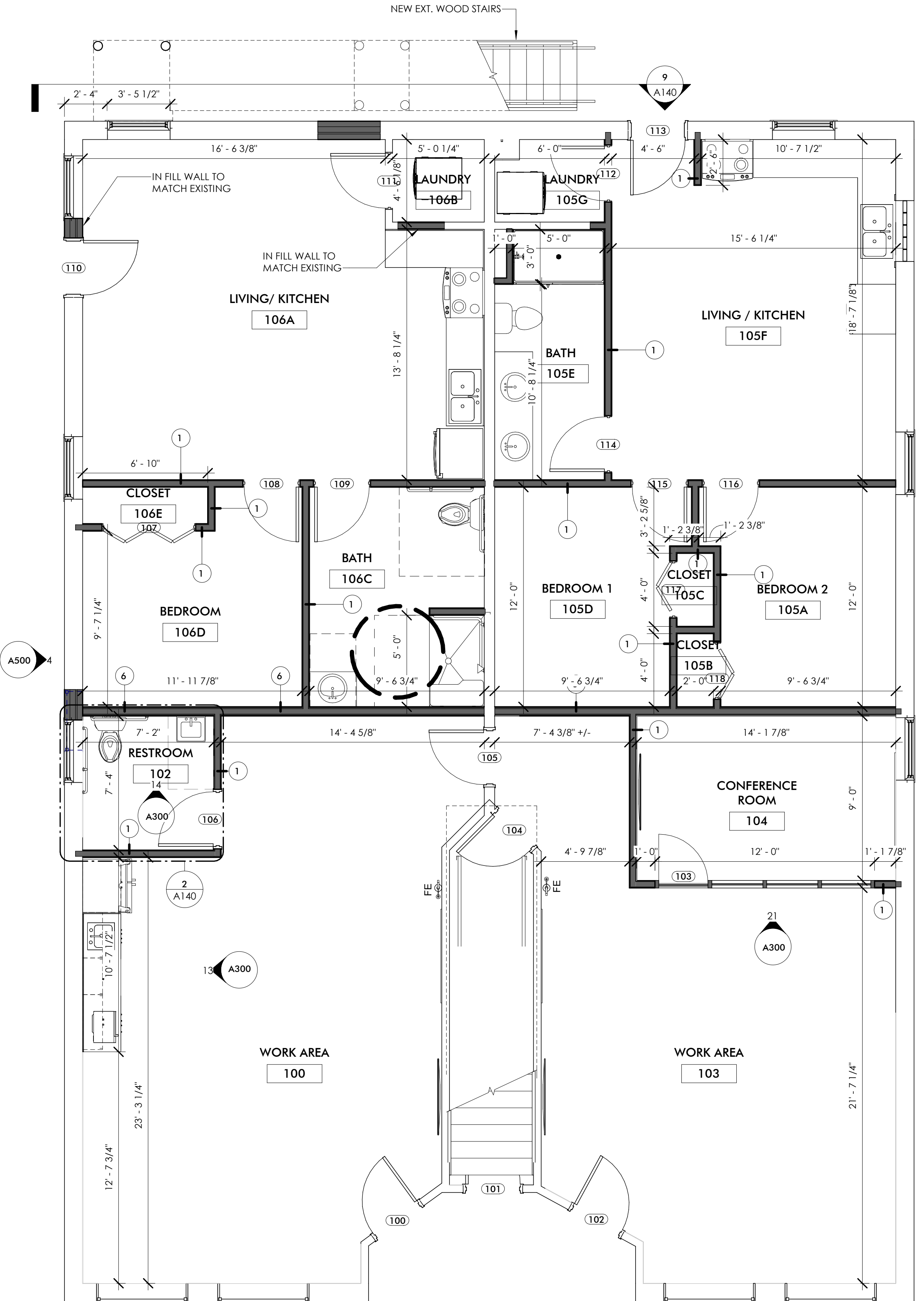
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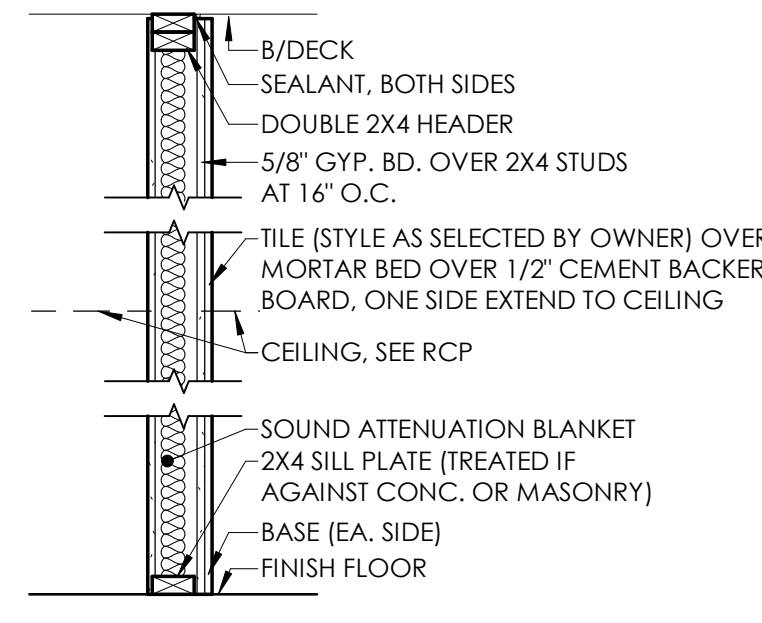
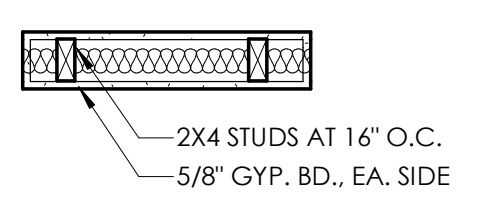
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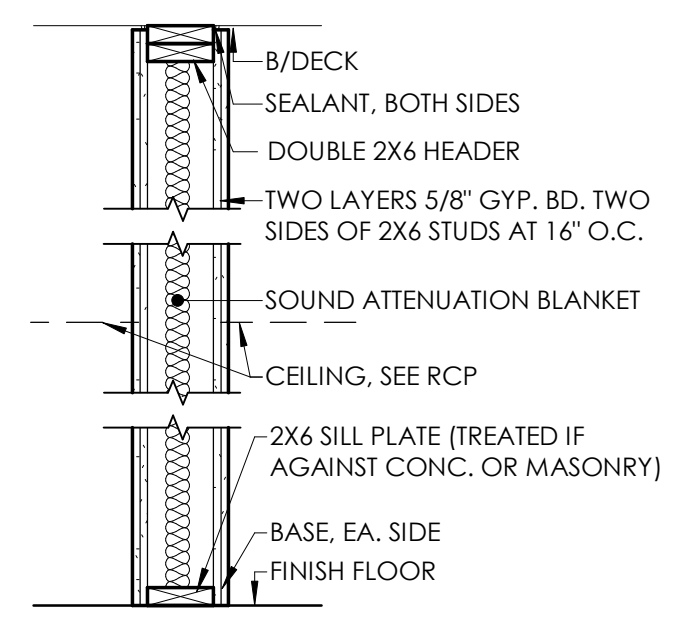
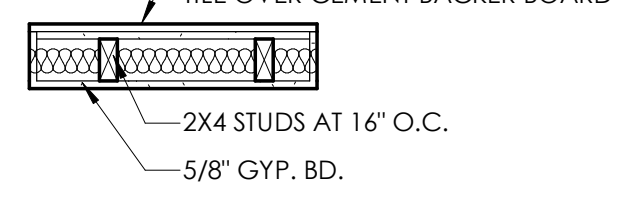
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**NEW BASEMENT PLAN**  
**A120**



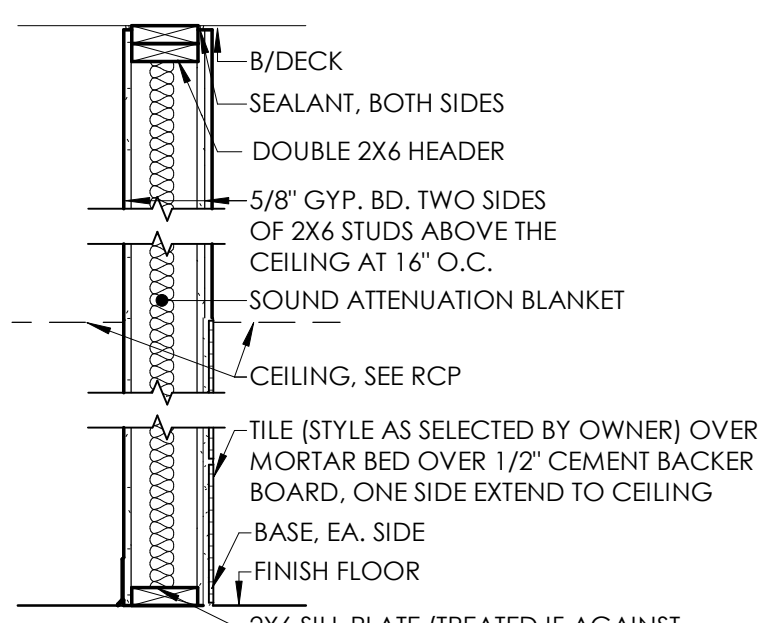
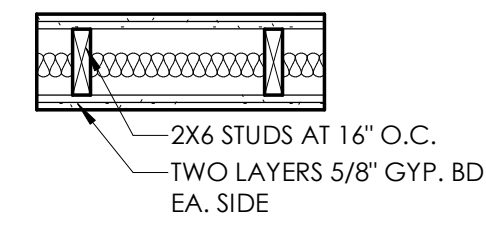
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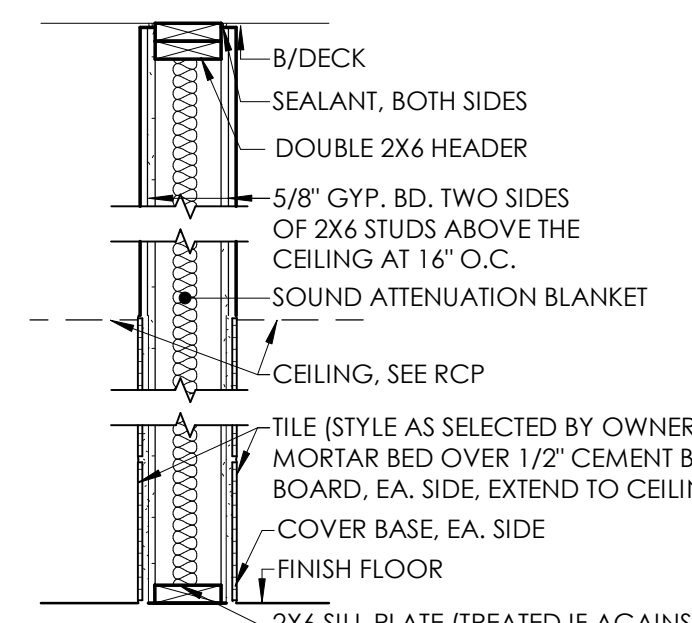
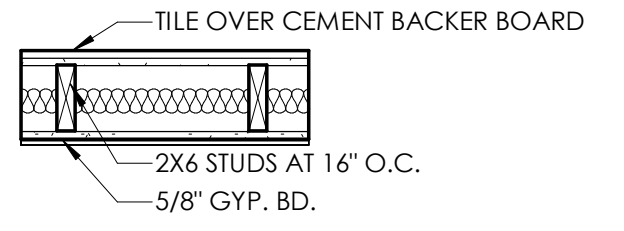
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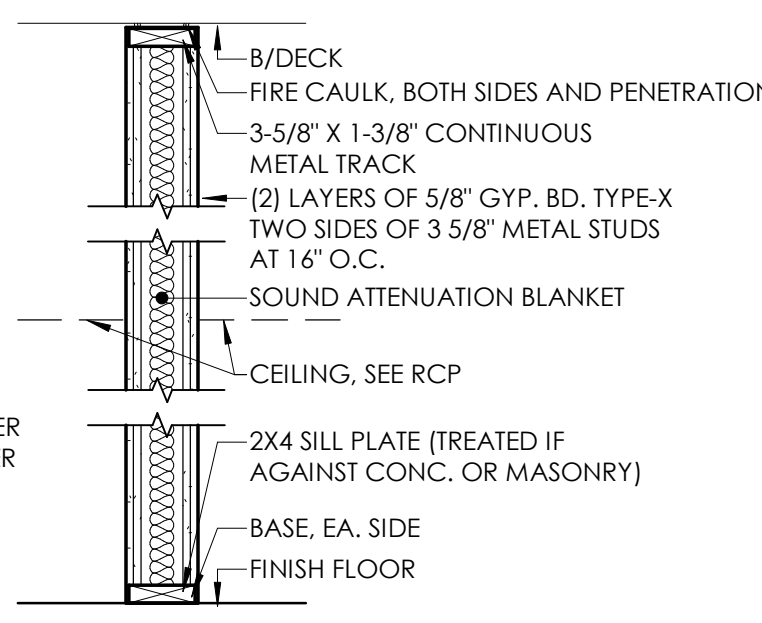
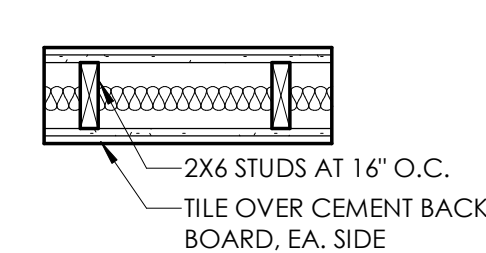
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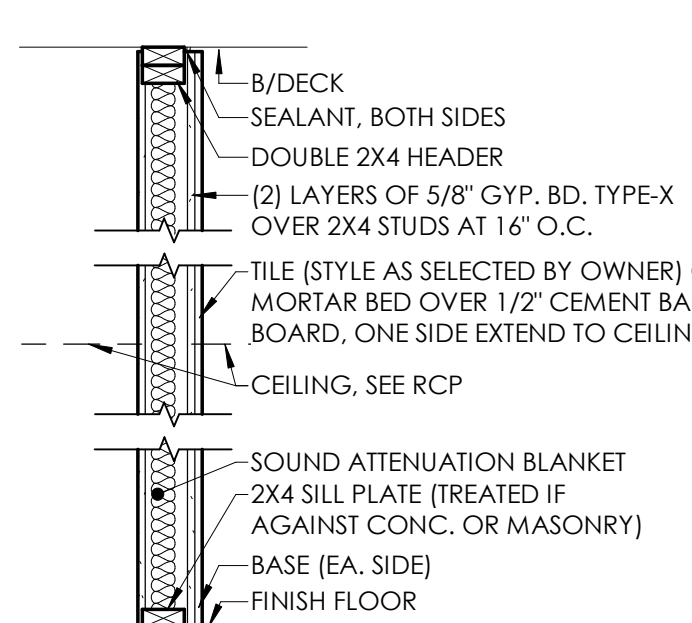
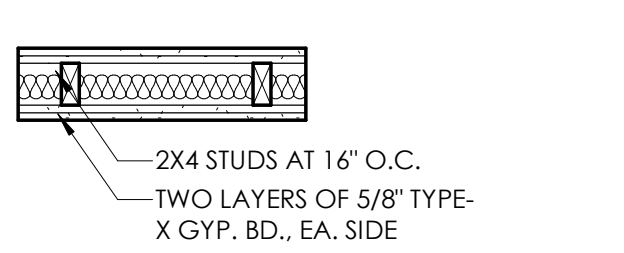
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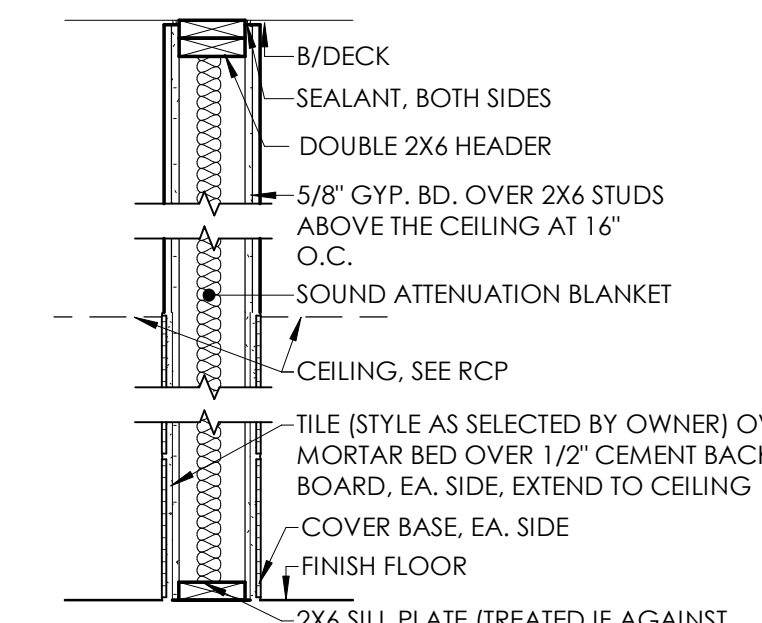
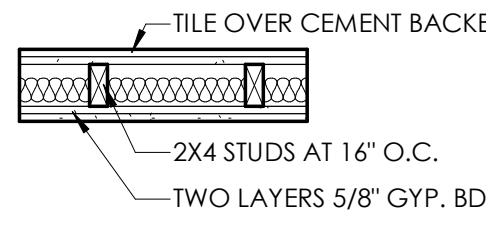
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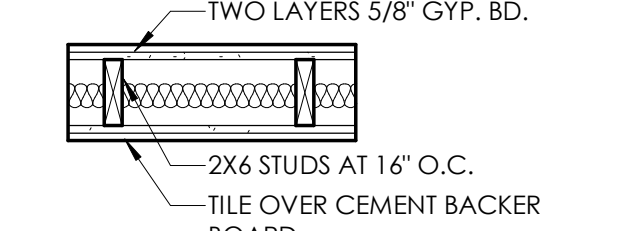
**PARTITION TYPE - 6 (2 HOUR)**



**PARTITION TYPE - 7 (2 HOUR)**



**PARTITION TYPE - 8 (2 HOUR)**



**GENERAL NOTES**

- ALL GYPSUM BOARD THROUGHOUT IS TO BE 5/8" TYPE-X AS A MINIMUM.
- ALL EXISTING INTERIOR WALLS THAT ARE TO REMAIN ARE TO BE PATCHED AS REQUIRED FROM NEW UTILITIES OR GENERAL CONSTRUCTION.
- INFILL OF EXISTING WALL OPENINGS IS TO RESULT IN FLUSH FINISHES ON BOTH SIDES OF THE WALL. UNLESS OTHERWISE NOTED, USE APPROPRIATE STUD FRAMING TO ACHIEVE DESIRED FINISH.
- INSTALL WOOD BLOCKING IN WALLS AS NECESSARY FOR INSTALLATION OF ALL CASEWORK, MIRRORS, TOWEL BARS, SHOWER CURTAIN RODS, TOILET PAPER DISPENSERS, PAPER TOWEL HOLDERS, TOILET PARTITIONS, RAILINGS, AND ANY OTHER ACCESSORIES.
- PROVIDE CEMENT BOARD IN LIEU OF GYPSUM BOARD AT ALL BATHTUB, SHOWER, AND KITCHEN LOCATIONS TO RECEIVE WALL TILE. COORDINATE WITH INTERIORS.
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- BATHROOM MIRRORS AND LIGHT FIXTURES ABOVE VANITIES SHALL BE CENTERED ON THE SINKS.

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 PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
KYLE GULAU

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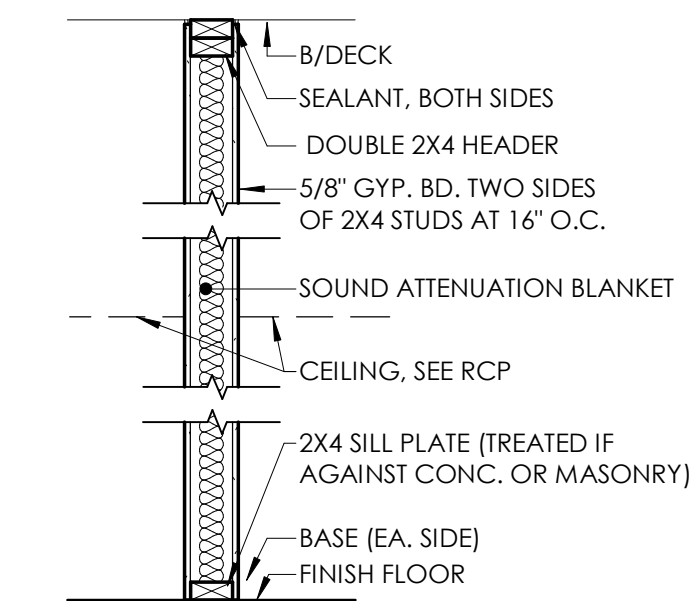
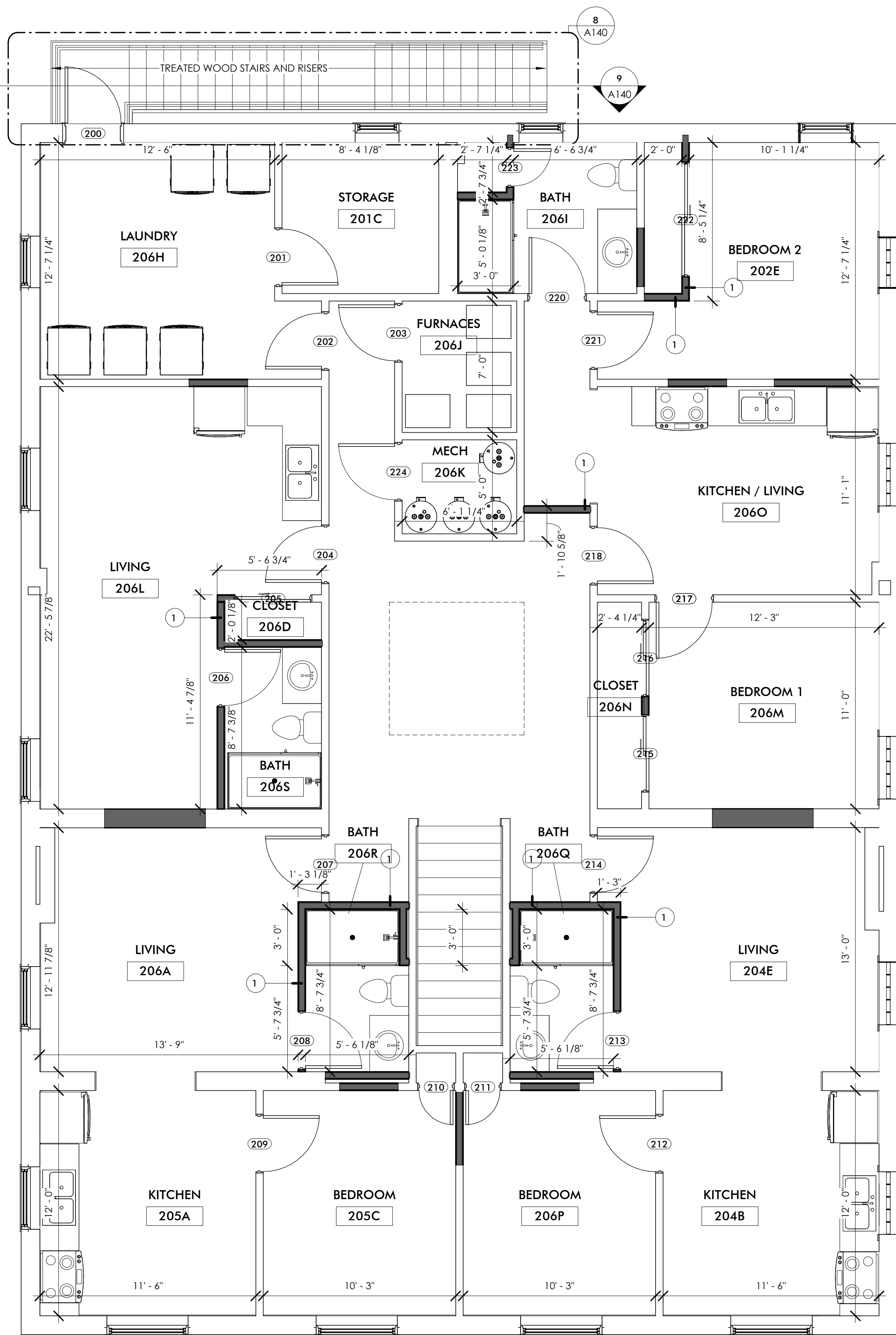
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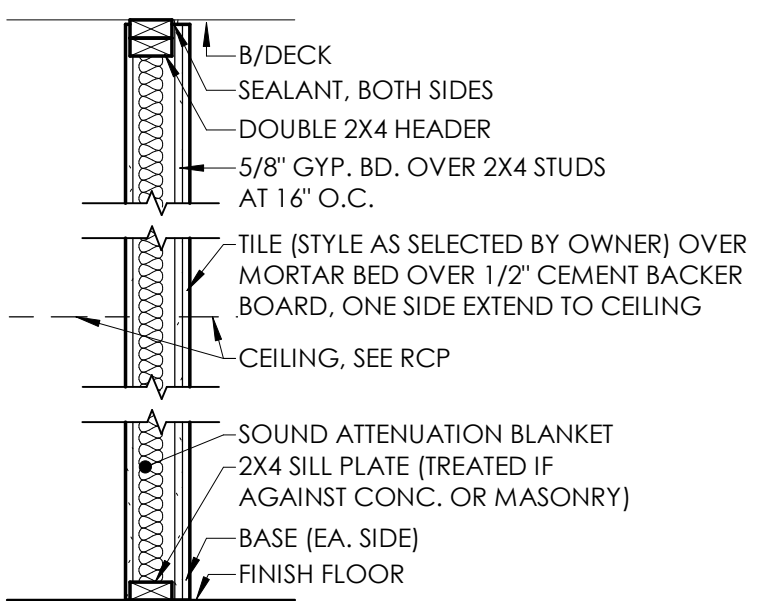
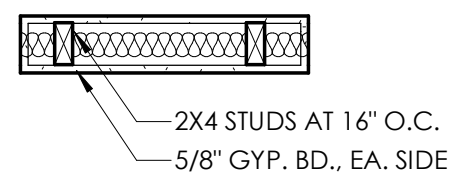
PROJECT NUMBER  
2022.034

NEW FIRST FLOOR PLAN

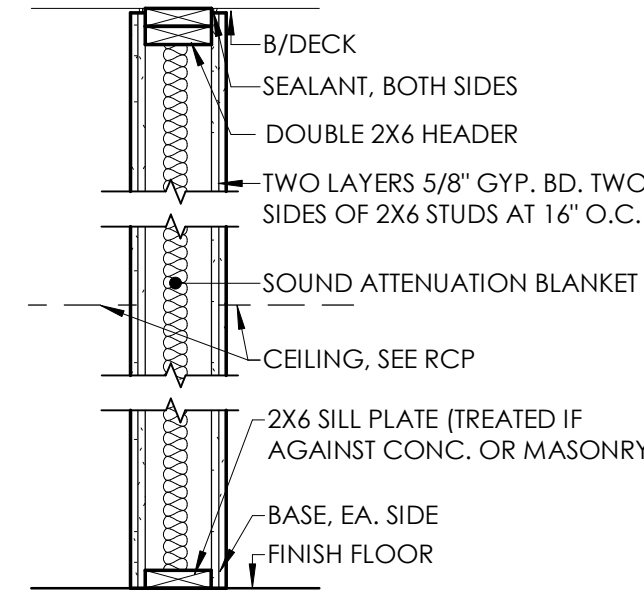
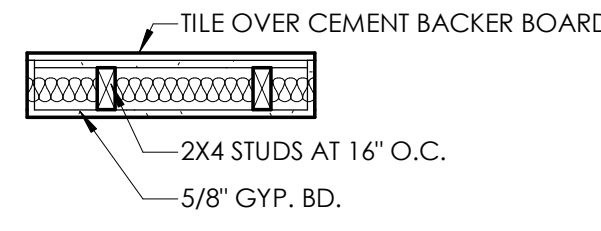
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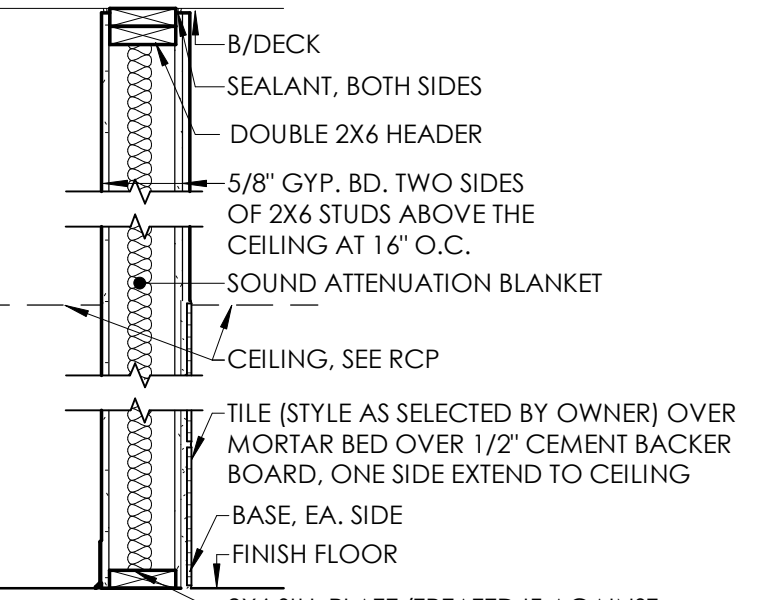
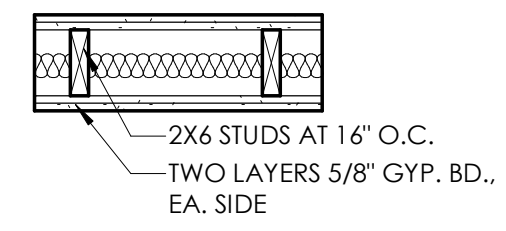
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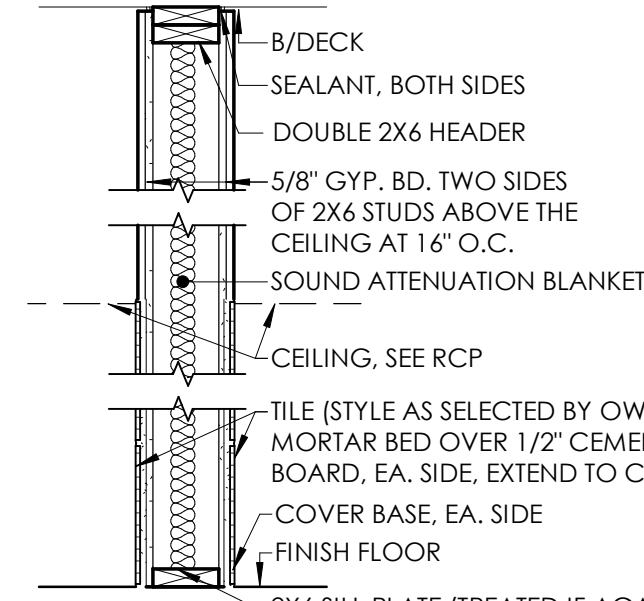
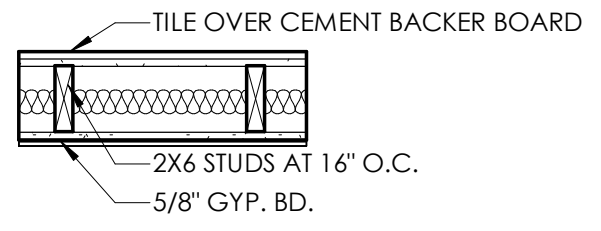
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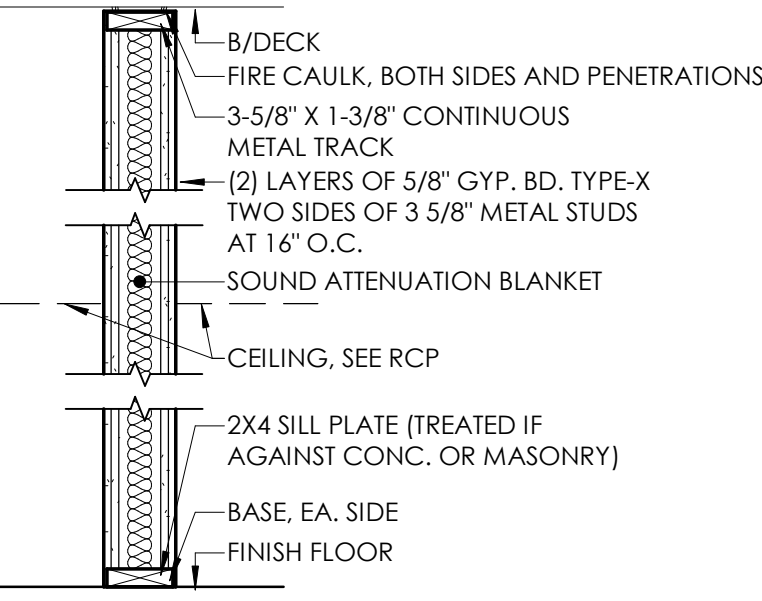
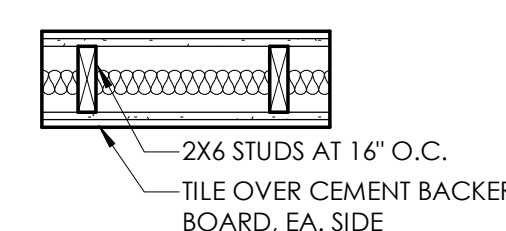
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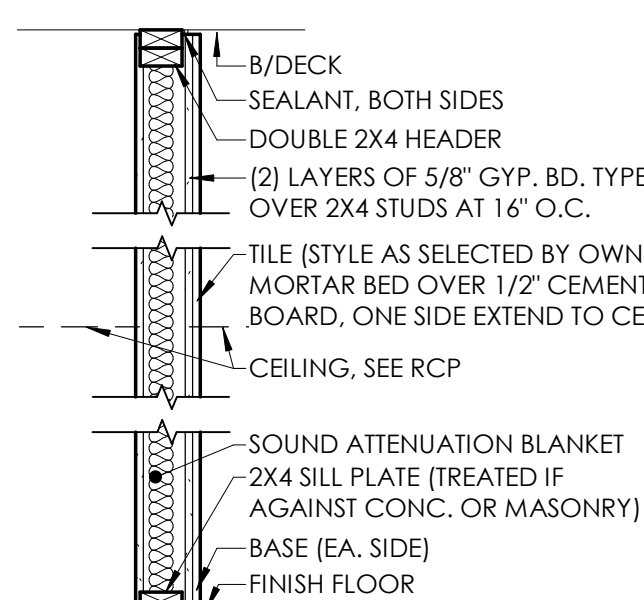
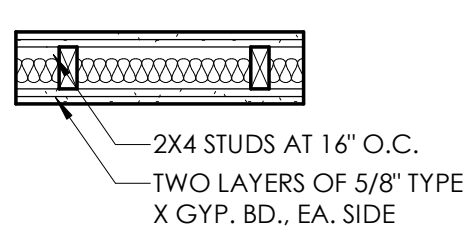
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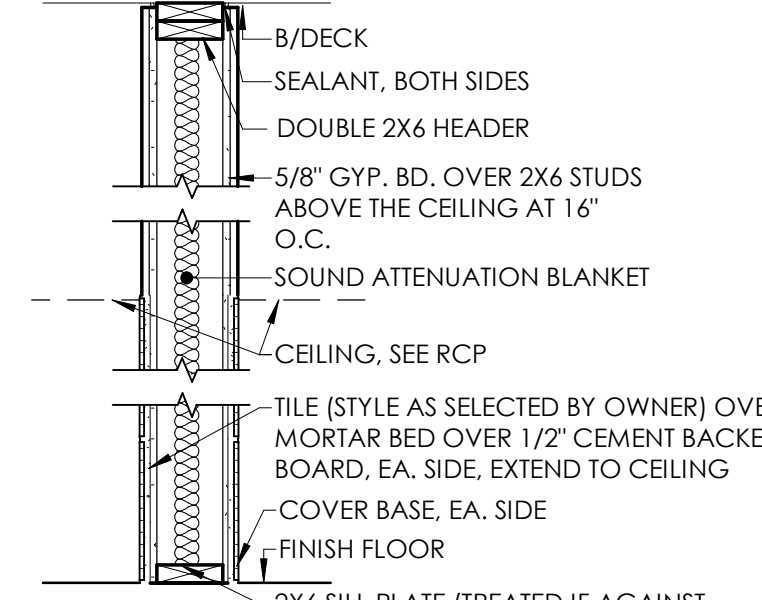
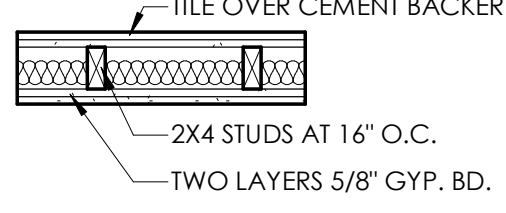
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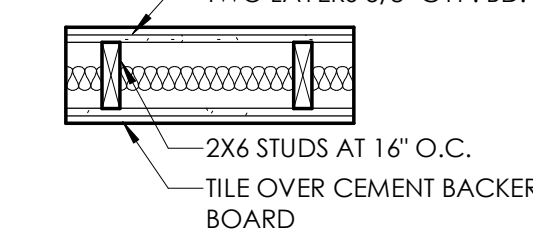
**PARTITION TYPE - 6 (2 HOUR)**



**PARTITION TYPE - 7 (2 HOUR)**



**PARTITION TYPE - 8 (2 HOUR)**



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708 N BURDICK STREET  
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708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
KYLE GULAU

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PROJECT NUMBER  
2022.034  
 NEW SECOND FLOOR PLAN

FINISH SCHEDULE KEY								
CODE	MATERIAL	FINISH LOCATION	MANUFACTURER	STYLE	SIZE	COLOR	CONTACT INFO	NOTES
CARPETING								
CPT-1	CARPET							
MISCELLANEOUS FLOORING SURFACE								
SC-1	SEALED CONCRETE							
RESILIENT FLOORING AND ACCESSORIES								
ICB-1	INTEGRAL COVE BASE							
LNO-1	LINOLEUM							
LVT-1	LUXURY VINYL TILE							
RB-1	RUBBER BASE							
RST-1	RUBBER STAIR TREAD							
RT-1	RUBBER TILE							
SV-1	SHEET VINYL							
SVT-1	SOLID VINYL TILE							
VCT-1	VINYL COMP. TILE							
TILING								
GLWT-1	GLASS WALL TILE							
PT-1	PORCELAIN TILE							
PTB-1	PORCELAIN TILE BASE							
WALL COVERING								
DEW-1	DRY ERASE WALLCOVERING							
VWC-1	VINYL WALLCOVERING							
PAINT								
IPS-1	PAINT (TO MATCH)							
INTERIOR ARCHITECTURAL WOODWORK								
AS-1	ACRYLIC SHEET							
FAB-1	TACKABLE SURFACE							
PL-1	PLASTIC LAMINATE							
SS-1	SOLID SURFACE							
WDB-1	WOOD BASEBOARD							
WDT-1	WOOD TRIM							
WDV-1	WOOD-VENEER-FACED ARCHITECTURAL CABINETS							
WALL AND DOOR PROTECTION								
IRWP-1	IMPACT RESISTANT WALL PROTECTION							
ACOUSTICAL PANEL CEILINGS								
ACP-1	ACOUSTICAL CEILING PANEL							
SCS-1	SPECIALTY CEILING SYSTEM							
WINDOW COVERING								
RS-1	ROLLER WINDOW SHADES							
WF-1	WINDOW FILM							

**ALL FINISHES BY OWNER**

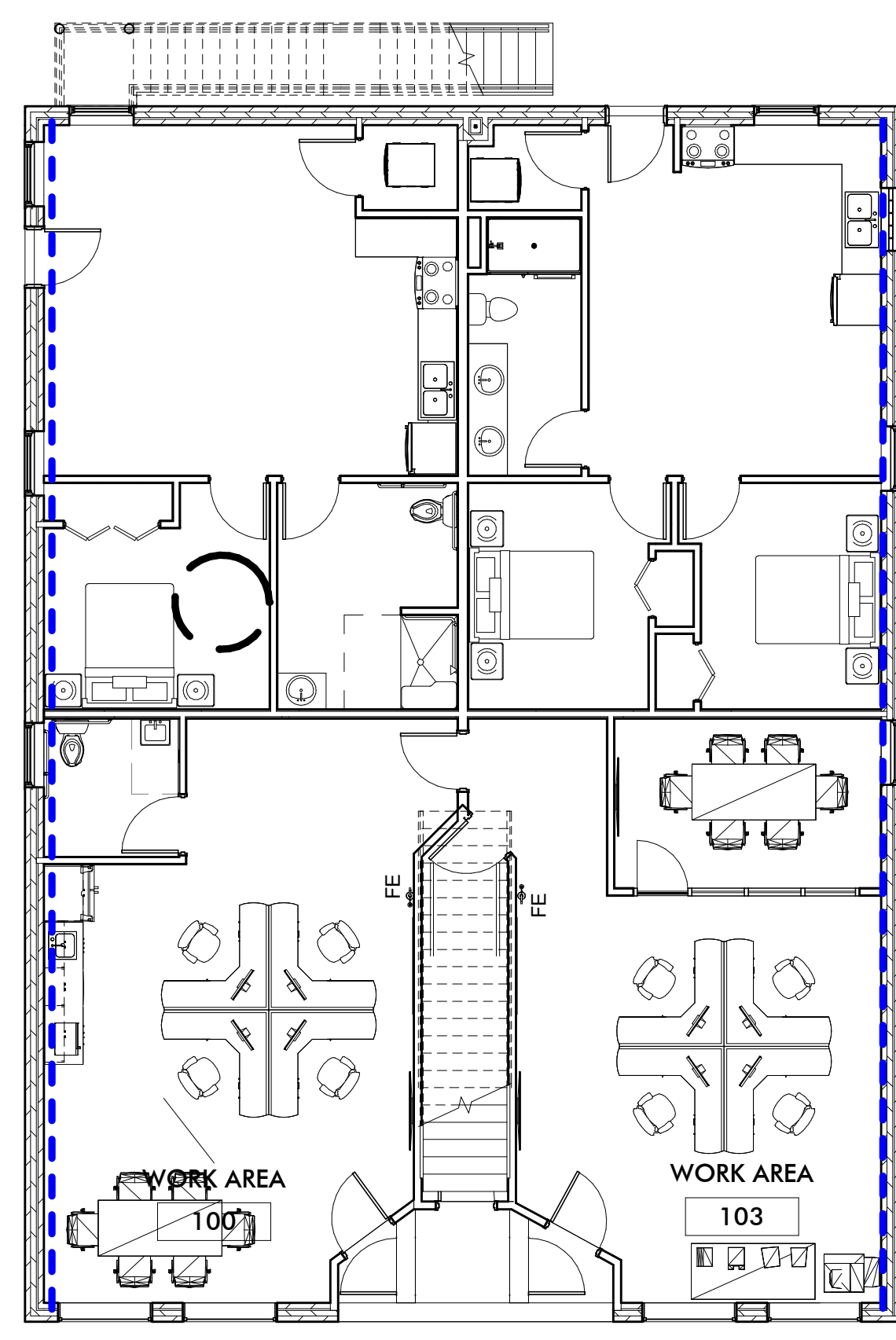
FINISH SCHEDULE																
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL - NORTH	WALL - EAST	WALL - SOUTH	WALL - WEST	CEILING	MILLWORK CABINET	NOTES						
100	WORK AREA															
100A	LIVING															
100B	KITCHEN															
100C	BEDROOM															
100D	CLOSET															
100E	BATHROOM															
101	KITCHENETTE															
101A	LIVING															
101B	KITCHEN															
101C	BEDROOM															
101D	CLOSET															
101E	BATHROOM															
102	RESTROOM															
102A	LIVING															
102B	KITCHEN															
102C	BEDROOM															
102D	CLOSET															
102E	BATHROOM															
103	WORK AREA															
104	CONFERENCE ROOM															
105	Room															
105	MECH															
105A	BEDROOM 2															
105B	CLOSET															
105C	CLOSET															
105D	BEDROOM 1															
105E	BATH															
105F	LIVING / KITCHEN															
105G	LAUNDRY															
106	Room															
106	HALWAY															
106A	LIVING / KITCHEN															
106B	LAUNDRY															
106C	BATH															
106D	BEDROOM															
106E	CLOSET															
107	Room															
108	Room															
109	Room															
110	Room															
111	Room															
112	Room															
113	Room															
114	Room															
200	CORRIDOR															
201A	LIVING															
201B	KITCHEN															
201C	STORAGE															
201D	CLOSET															
201E	BATHROOM															
202A	LIVING															
202B	KITCHEN															
202C	BEDROOM															
202D	CLOSET															
202E	BEDROOM 2															
203	LAUNDRY															
204A	LIVING															
204B	KITCHEN															
204C	BEDROOM															
204D	CLOSET															
204E	LIVING															
204F	CLOSET															
205A	KITCHEN															
205B	KITCHEN															
205C	BEDROOM															
205D	CLOSET															
205E	BATHROOM															
205F	CLOSET															
206A	LIVING															
206B	KITCHEN															
206C	BEDROOM															
206D	CLOSET															
206E	BATHROOM															
206F	Room															
206G	Room															
206H	LAUNDRY															
206I	BATH															
206J	FURNACES															
206K	MECH															
206L	LIVING															
206M	BEDROOM 1															
206N	CLOSET															
206O	KITCHEN / LIVING															
206P	BEDROOM															
206Q	BATH															
206R	BATH															
206S	BATH															
206T	CLOSET															

**GENERAL NOTES**

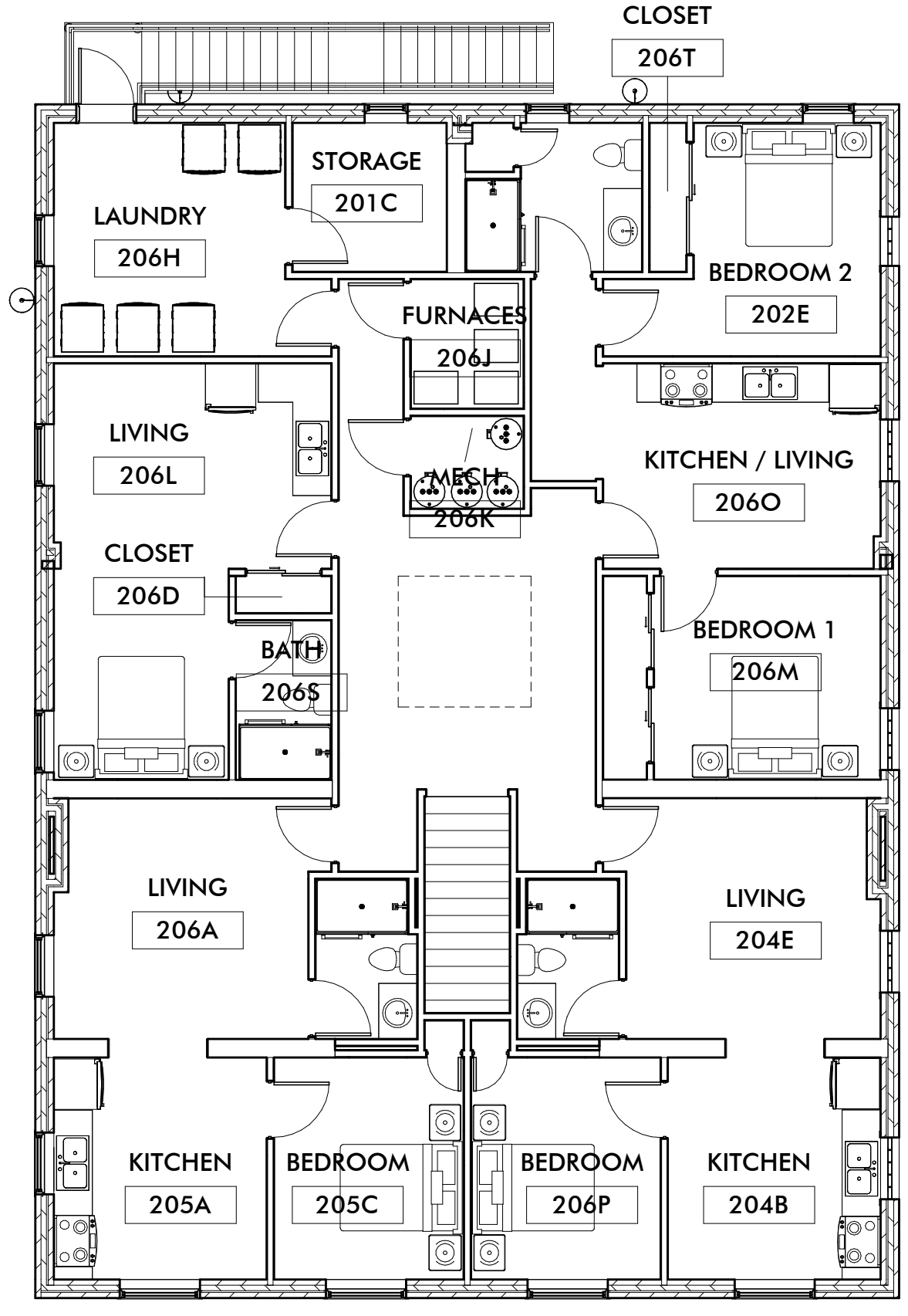
- ALL FURNITURE IS SHOWN FOR REFERENCE AND SCALE ONLY. ALL FINAL FURNITURE SELECTION IS TO BE BY OWNER
- PRIME AND PAINT ALL SURFACES WITH A MINIMUM (2) FINISH COATS.
- ALL BATHROOM WET WALLS ARE TO BE PORCELAIN TILE FROM FLOOR TO CEILING. PROVIDE CEMENT BACKER BOARD BEHIND ALL PORCELAIN TILE WALLS.
- AFTER REMOVING EXISTING FLOORING, GRIND CONCRETE OR REPLACE SUBFLOOR AS REQUIRED TO PROVIDE A LEVEL SURFACE FOR THE NEW FLOORING
- SEE EXTERIOR ELEVATIONS FOR EXTERIOR MATERIALS
- TRANSITIONS TO BE MANUFACTURED FROM SCHLUTER SYSTEMS U.N.O. IN S.S FINISH IN THE APPROPRIATE THICKNESS FOR THE ADJACENT MATERIALS
- CENTER ALL FLOORING TRANSITIONS UNDER DOORS OR AT THE CENTER OF OPENINGS U.N.O.
- USE LEVELING COMPOUND TO FEATHER FLOOR UP TO APPROPRIATE HEIGHT TO ENSURE THAT TRANSITION STRIP IS FLUSH WITH ADJACENT FLOORING MATERIAL
- DO NOT PROVIDE METAL CORNER PIECES FOR OUTSIDE OR INSIDE CORNERS OF INTEGRAL COVE BASE. CONTRACTOR TO PROVIDE AND INSTALL METAL CHANNEL CAP FOR EXPOSED EDGE OF SHEET VINYL
- GROUT FOR TILE TO BY OWNER
- PROVIDE AND INSTALL ALL NECESSARY TRIM PIECES FOR WALL PROTECTION
- CABINET PULLS TO BE BY OWNER. ALL PULLS TO BE VERTICAL FOR DIRECTIONAL PLACEMENT MOUNTED TO THE LATCH SIDE OF CABINET DOORS AND SIDE OF DRAWERS (U.N.O.) ALL DRAWER PULLS ARE SHOWN FOR REFERENCE ONLY AND NOT INDICATION OF MOUNTING LOCATION
- ALL METAL COUNTERTOP SUPPORTS TO BE FIELD PAINTED TO MATCH SURROUNDING WALL FINISH (IN ALKYD, SEMI-GLOSS PAINT FINISH)
- ALL EXPOSED METAL ELEC./MECH. ITEMS IN OCCUPIED SPACES TO BE FIELD-PAINTED TO MATCH SURROUNDING WALL FINISH
- BULKHEADS TO BE PAINTED TO MATCH SURROUNDING WALLS ON FACE AND UNDERSIDE U.N.O
- ALL SOLID SURFACE COUNTERTOPS AND BACKSPASHES TO HAVE MITERED, FINISHED EASED EDGES
- ALL CONCEALED SUPPORT BRACKETS TO BE A&M HARDWARE C/EC FLAT CONCEALED BRACKETS IN APPROPRIATE SIZE - BASIS OF DESIGN
- PAINT CONDUIT, PIPING, JUNCTION BOXES, DUCTWORK AND OTHER EXPOSED UTILITIES TO MATCH CEILING PAINT, OTHER THAN IN MECHANICAL AND ELECTRICAL ROOMS U.N.O.
- SUBMIT 9"X9" SAMPLES FOR APPROVAL ON ALL FINISHES PRIOR TO ORDERING
- REFER TO FINISH PLANS AND ELEVATIONS FOR ACCENT WALL LOCATIONS AND MULTIPLE FINISH LOCATIONS
- REFER TO ALL INTERIOR FINISH NOTES AND INTERIOR DRAWINGS INCLUDING PLANS, ELEVATIONS AND DETAILS FOR COMPLETE INTERIORS INFORMATION
- CONDUCT MOISTURE TESTS ON ALL CONCRETE SLABS WHERE FINISH MATERIALS ARE SCHEDULED. RECORD PASSING MOISTURE LEVELS PRIOR TO START OF INSTALLATION. REFERENCE MANUFACTURERS INSTALLATION SPECIFICATIONS FOR EACH FLOOR FINISH TYPE TO VERIFY REQUIREMENTS
- WHERE SPECIFIED, PROVIDE CONTINUOUS LENGTH OF RUBBER WALL BASE WITH FIELD FORMED CORNERS, U.N.O.
- PROVIDE A SMOOTH LEVEL 4 DRYWALL FINISH ON ALL GYPSUM WALLS U.N.O.

**FINISH PLAN SYMBOL LEGEND**

--- EXISTING BRICK



**1 FIRST FLOOR FINISH PLAN**  
 1/8" = 1'-0"



**2 SECOND FLOOR**  
 1/8" = 1'-0"

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KYLE GULAU

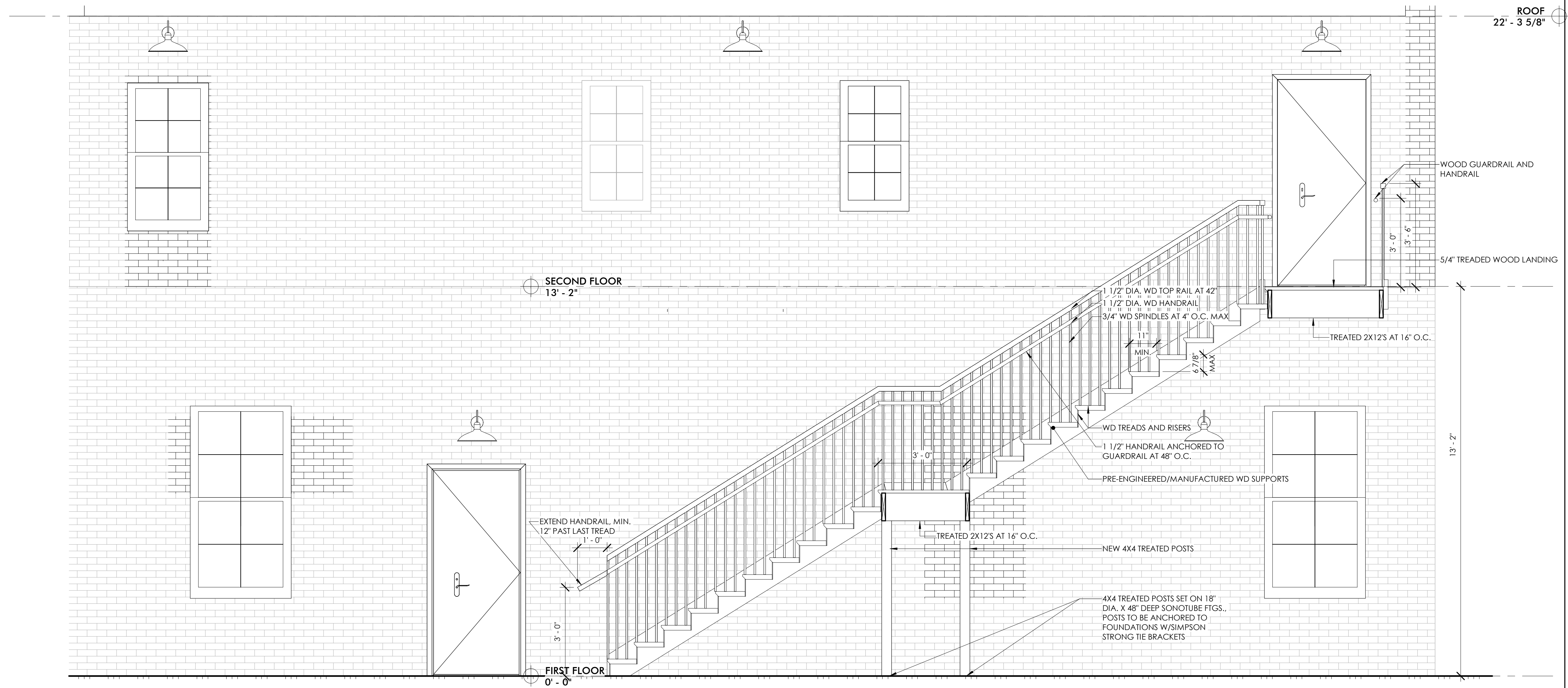
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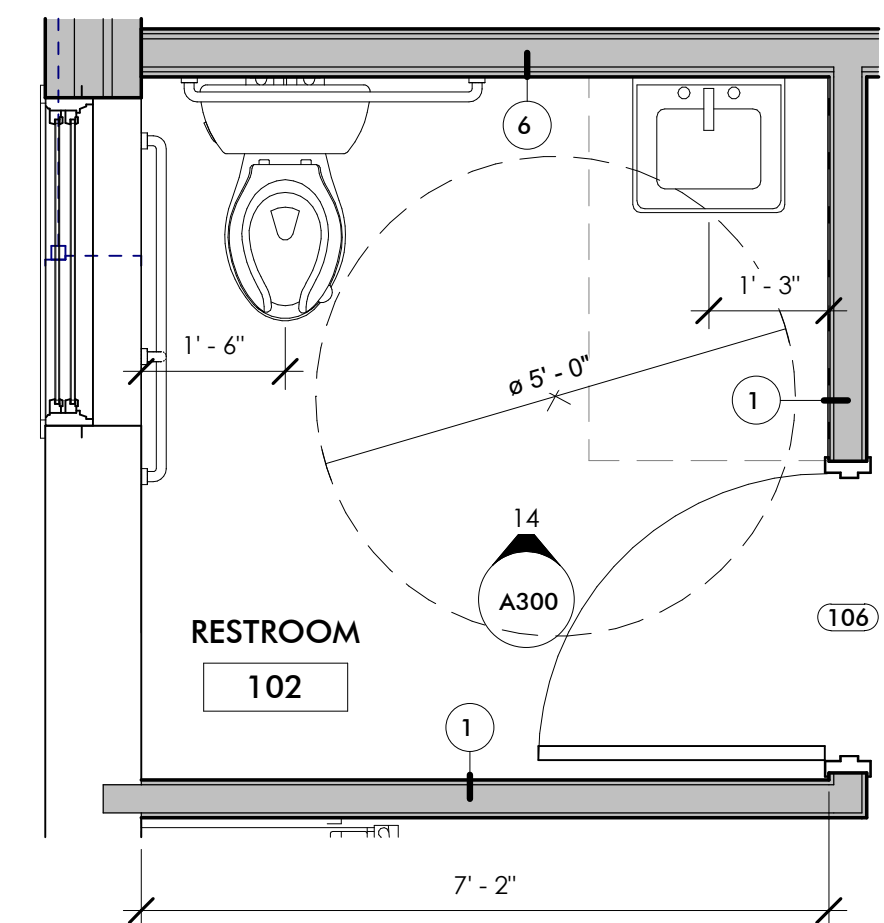
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PROJECT NUMBER  
2022.034  
 FINISH PLAN & SCHEDULE

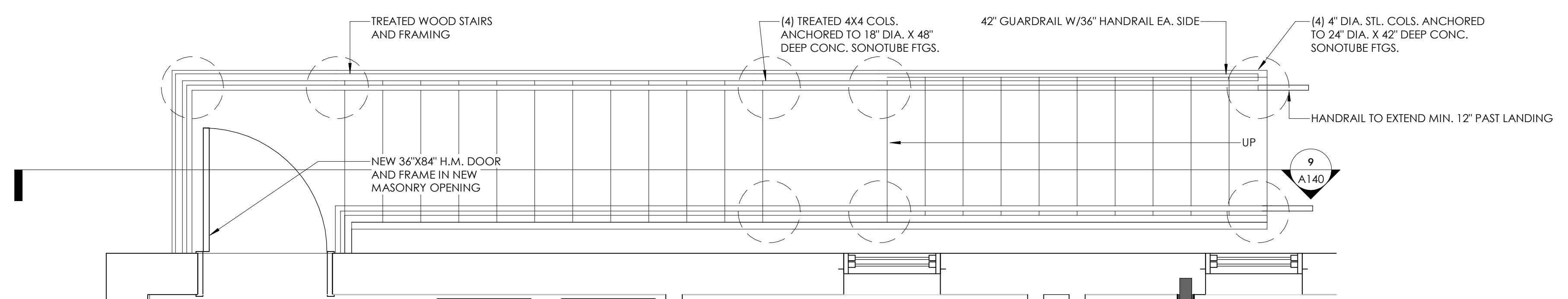
**A130**



**9 STAIR SECTION**  
 1/2" = 1'-0"



**2 FIRST FLOOR WORK AREA BATHROOM**  
 1/2" = 1'-0"



**8 STAIR PLAN**  
 1/2" = 1'-0"

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 708 N BURDICK STREET  
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 708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
 KYLE GULAU

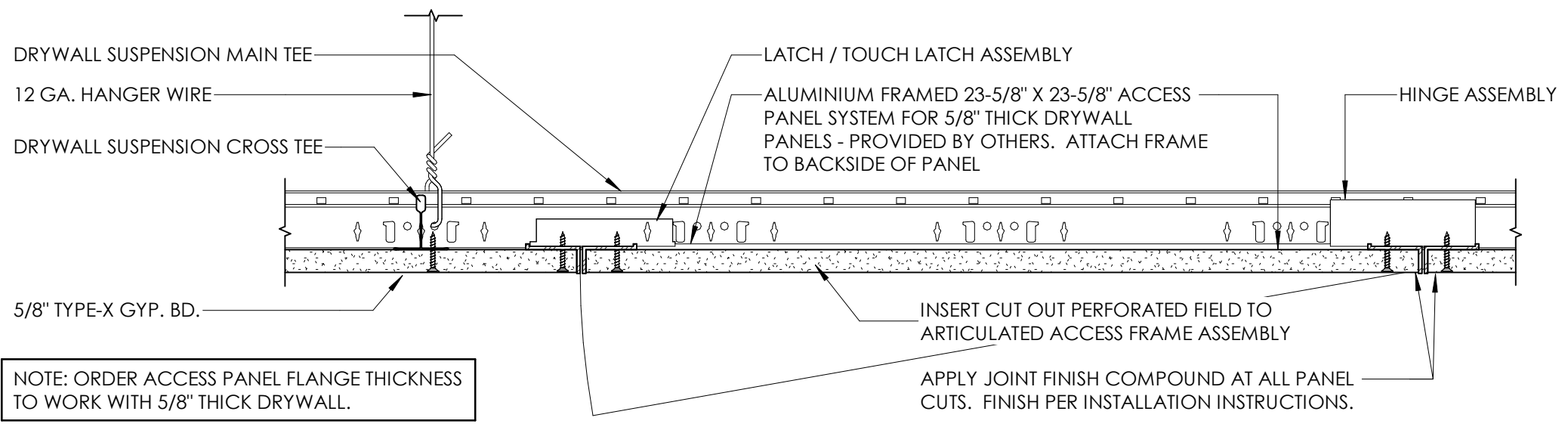
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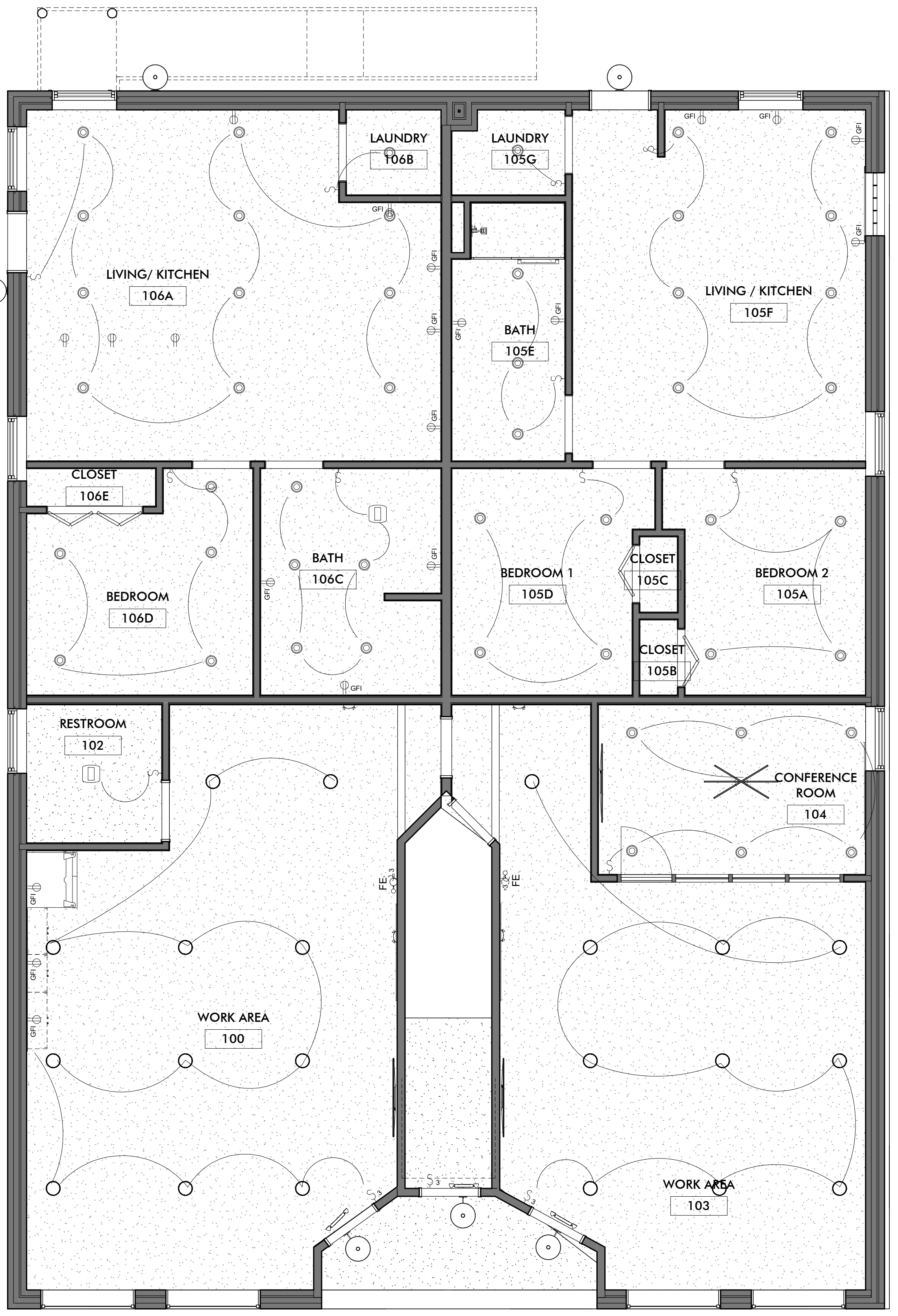
PROJECT NUMBER  
 2022.034

ENLARGED PLANS  
**A140**



NOTE: ORDER ACCESS PANEL FLANGE THICKNESS TO WORK WITH 5/8\"/>

**4 ACCESS PANEL DETAIL**  
 3\"/>

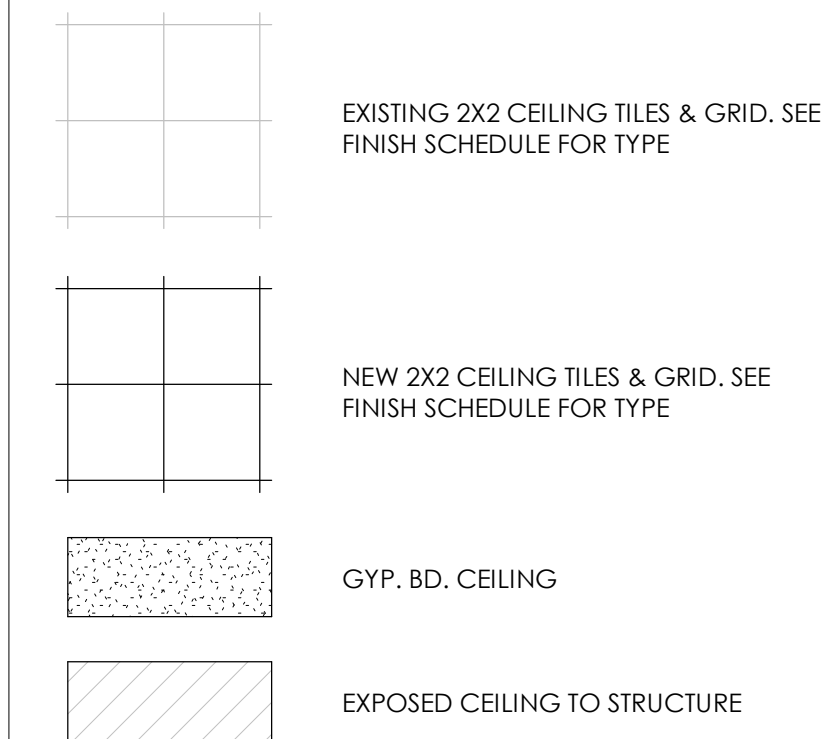


**1 FIRST FLOOR REFLECTED CEILING PLAN**  
 1/4\"/>

**REFLECTED CEILING GENERAL NOTES**

1. ALL LIGHT SWITCHES SHALL BE SILENT TYPE, 20 AMP, WHITE COLOR WITH WHITE COVER PLATES.
2. ALL NEW LIGHT FIXTURES TO BE LED, FIXTURES AND LAYOUT ARE SHOWN SCHEMATICALLY.
3. ALL CEILING HEIGHTS TO BE \_\_\_\_\_ UNLESS NOTED OTHERWISE
4. IF CEILING HEIGHTS ARE NOT CALLED OUT, THEN THE CEILING IS EXISTING OR SHALL BE EXPOSED TO THE EXISTING STRUCTURE ABOVE. CONFIRM WITH ARCHITECT
5. COORDINATE LIGHT FIXTURE, MECHANICAL, PLUMBING, ALONG WITH ANY OTHER SYSTEMS AS REQUIRED TO NOT INTERFERE WITH ONE ANOTHER.
6. ALL LIGHT FIXTURES AND HVAC SHALL BE CENTERED IN ALL ROOMS, 2X2 CEILING GRIDS, CLOUDS OR BETWEEN OTHER ELEMENTS OR EQUALLY SPACED UNLESS NOTED OTHERWISE.
7. ALL 2X2 CEILING GRIDS TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE. NO PANEL SHALL BE LESS THAN 4\"/>
- 8. SEE MEP101 FOR ADDITIONAL MECHANICAL, ELECTRICAL, AND PLUMBING NOTES.
- 9. REPLACE ANY CEILING TILES IN CEILINGS THAT ARE TO REMAIN.
- 10. ALL BULKHEAD HEIGHTS AT NON-CABINERY LOCATIONS TO BE \_\_\_\_\_ UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL BULKHEAD HEIGHTS
- 11. REFER TO INTERIOR ELEVATIONS AND RCP FOR UNDER CABINET LIGHTING LOCATIONS.
- 12. REFER TO ROOM FINISH KEY AND SCHEDULE FOR ACP DESIGNATIONS
- 13. ALL DIMENSIONS ARE FROM CENTER LINE OF FIXTURE TO FINISHED FACE OF WALL
- 14. PATCH AND REPAIR EXISTING CEILING AS REQUIRED THAT WAS DISTURBED DURING DEMOLITION AND/OR NEW CONSTRUCTION ACTIVITIES. PATCH AND REPAIR TO MATCH EXISTING ADJACENT CONSTRUCTION, SUPPORT SYSTEM, CEILING FINISH, PATTERN AND ELEVATION.

**REFLECTED CEILING LEGEND**



**LIGHT FIXTURE LEGEND**

TAG/SYMBOL	MANUFACTURER & DESCRIPTION	MODEL # / URL
○	LITHONIA 6\"/>	LDN6 CYLINDER SERIES: <a href="https://lithonia.acuitybrands.com/products/detail/564953/lithonia-lighting/ldn6-cylinder-series/led-cylinders">https://lithonia.acuitybrands.com/products/detail/564953/lithonia-lighting/ldn6-cylinder-series/led-cylinders</a>
○	LITHONIA 6\"/>	LDN6: <a href="https://lithonia.acuitybrands.com/products/detail/1112971/lithonia-lighting/contractor-select-ldn6-round-series">https://lithonia.acuitybrands.com/products/detail/1112971/lithonia-lighting/contractor-select-ldn6-round-series</a>
—	BEACH LIGHTING ULTRA SLIM LED UNDERCABINET LIGHT	BEA380917; <a href="https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=380917&amp;cat_id=321">https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=380917&amp;cat_id=321</a>
^	POWERLED SURFACE UNDERCABINET PUCK LIGHT	DL5472984; <a href="https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=472984&amp;cat_id=136">https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=472984&amp;cat_id=136</a>
○	LITHONIA HIGH BAY LED LIGHT FIXTURE	JCBL: <a href="https://www.acuitybrands.com/products/detail/560426/lithonia-lighting/jcbl/led-high-bay">https://www.acuitybrands.com/products/detail/560426/lithonia-lighting/jcbl/led-high-bay</a>
⊞	BROAN EXHAUST FAN WITH LED LIGHT, 110 CFM	NUTONE FLEX SERIES; <a href="http://www.broan-nutone.com/en-us/product/ventilationfans/791ledntm">www.broan-nutone.com/en-us/product/ventilationfans/791ledntm</a>
⊞	LITHONIA EMERGENCY LIGHT	ELM6L; <a href="https://lithonia.acuitybrands.com/products/detail/804151/lithonia-lighting/elmd-emergency-light/quantum-led-adjustable-optics-1100-lumens-emergency-light">https://lithonia.acuitybrands.com/products/detail/804151/lithonia-lighting/elmd-emergency-light/quantum-led-adjustable-optics-1100-lumens-emergency-light</a>
⊞	LITHONIA EXIT-UNIT COMBO	LHQM LED; <a href="https://lithonia.acuitybrands.com/products/detail/48281/lithonia-lighting/lhqm-led/quantum-led-exit-unit-combo">https://lithonia.acuitybrands.com/products/detail/48281/lithonia-lighting/lhqm-led/quantum-led-exit-unit-combo</a>
⊞	BROWNLEE LIGHTING VANITY LIGHT	FLOW SQ; <a href="https://www.brownlee.com/product/5165LED">https://www.brownlee.com/product/5165LED</a>
⊞	LITHONIA LED FLAT PANEL 2'X2' OR 2'X4' LED FIXTURE	CPX; <a href="https://www.acuitybrands.com/products/detail/855690/lithonia-lighting/contractor-select-cpx-led-flat-panel/most-popular-and-readily-available-configurations-for-your-everyday-lighting-needs">https://www.acuitybrands.com/products/detail/855690/lithonia-lighting/contractor-select-cpx-led-flat-panel/most-popular-and-readily-available-configurations-for-your-everyday-lighting-needs</a>
⊞	MARK ARCHITECTURAL LIGHTING, 4\"/>	SLOT 4 RECESSED; <a href="https://marklighting.acuitybrands.com/products/detail/122734/mark-">https://marklighting.acuitybrands.com/products/detail/122734/mark-</a>
⊞	BIG ASS FANS FAN WITH LIGHT	HAIKU L; <a href="https://www.bigassfans.com/fans/haiku/">https://www.bigassfans.com/fans/haiku/</a>
⊞	BIG ASS FANS 8\"/>	I6; <a href="https://www.bigassfans.com/fans/i6/">https://www.bigassfans.com/fans/i6/</a>

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PROJECT NAME  
 708 N BURDICK STREET  
 PROJECT ADDRESS  
 708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
 KYLE GULAU

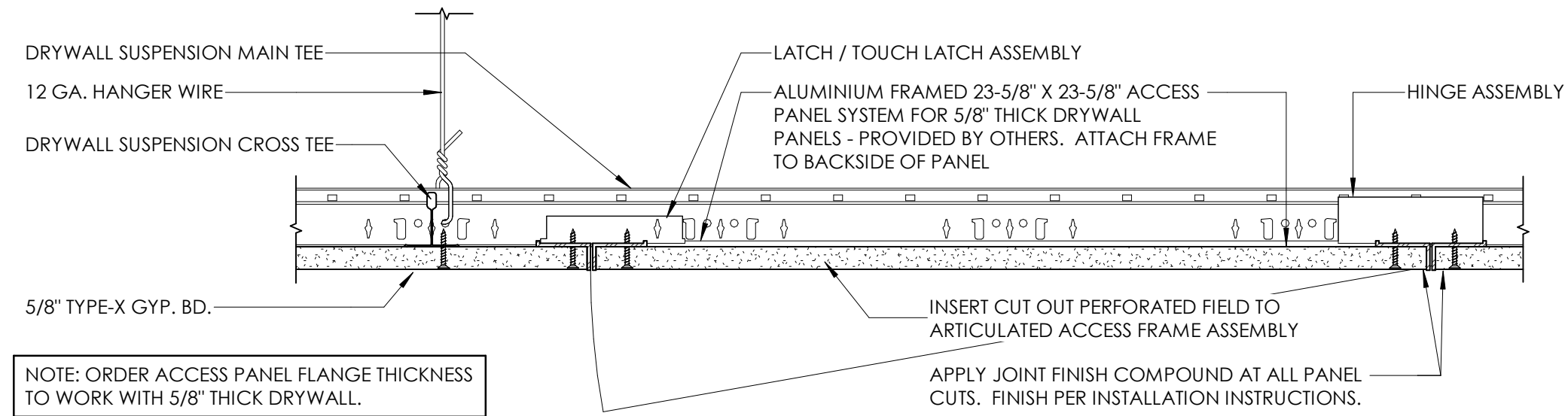
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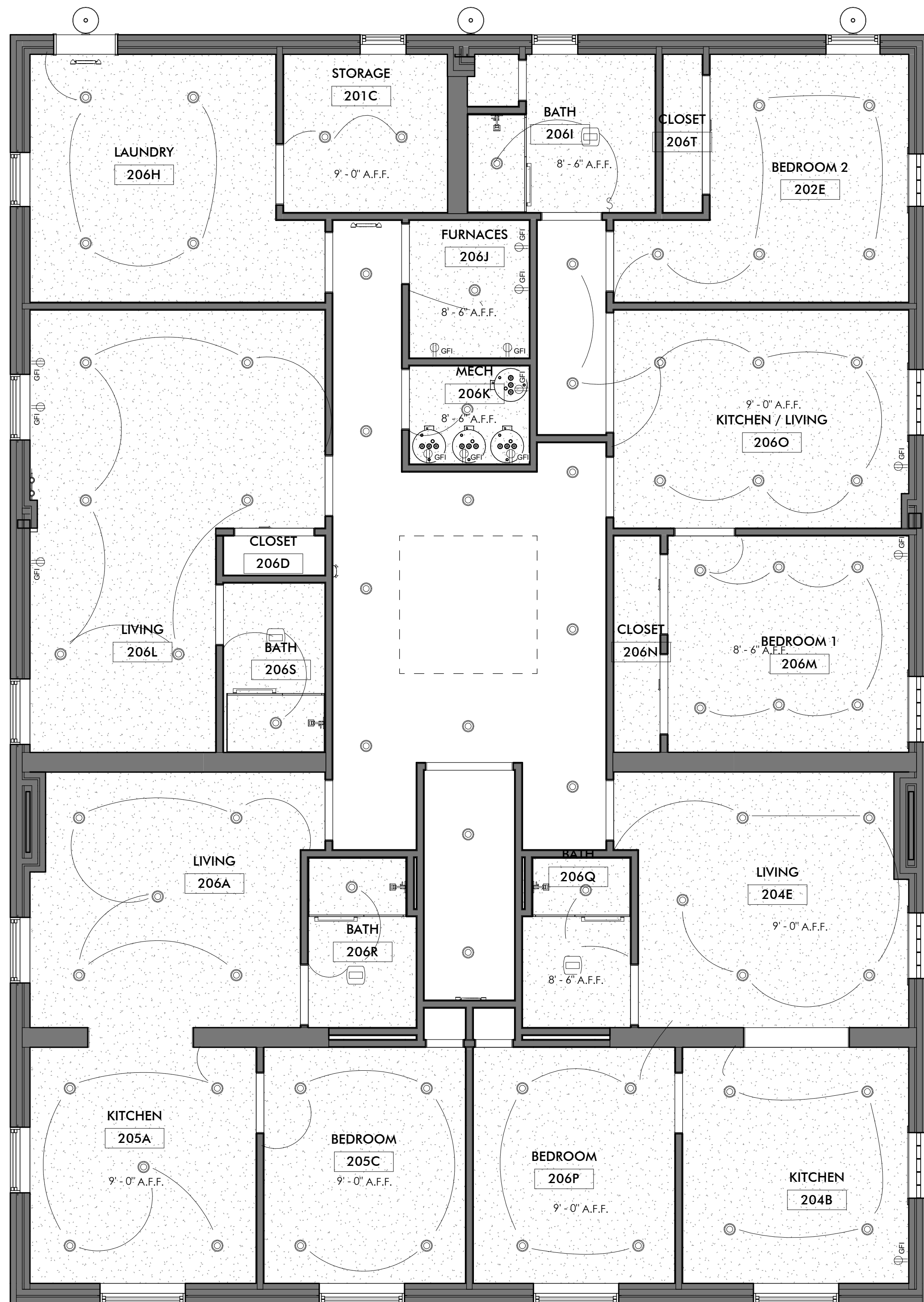
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REFLECTED CEILING PLANS  
**A200**



**2 ACCESS PANEL DETAIL**  
 3" = 1'-0"

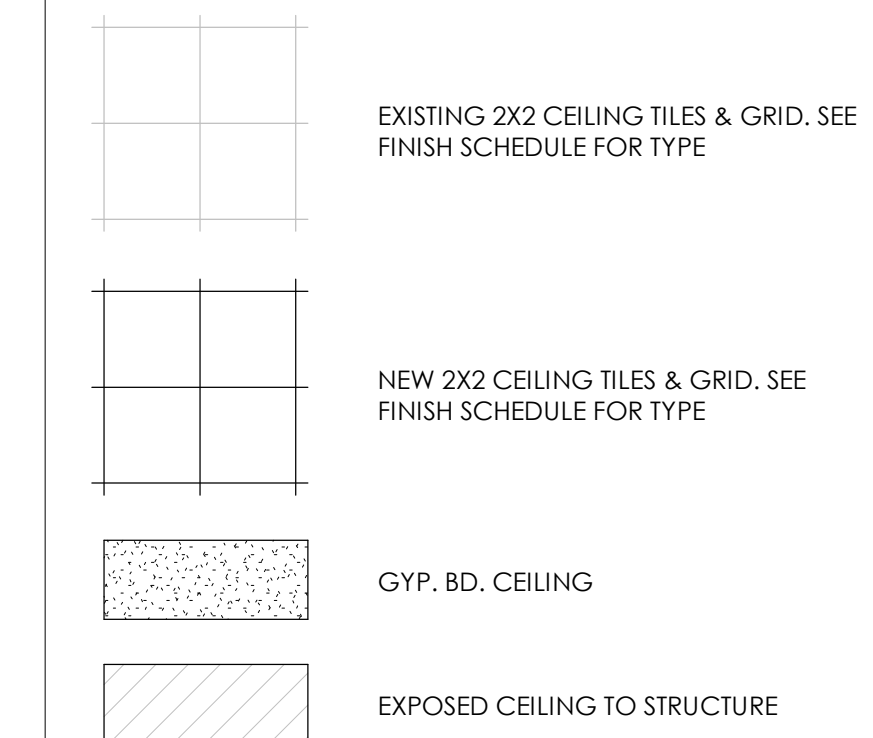


**1 SECOND FLOOR REFLECTED CEILING PLAN**  
 1/4" = 1'-0"

**REFLECTED CEILING GENERAL NOTES**

- ALL LIGHT SWITCHES SHALL BE SILENT TYPE, 20 AMP, WHITE COLOR WITH WHITE COVER PLATES.
- ALL NEW LIGHT FIXTURES TO BE LED. FIXTURES AND LAYOUT ARE SHOWN SCHEMATICALLY.
- ALL CEILING HEIGHTS TO BE \_\_\_\_ UNLESS NOTED OTHERWISE
- IF CEILING HEIGHTS ARE NOT CALLED OUT, THEN THE CEILING IS EXISTING OR SHALL BE EXPOSED TO THE EXISTING STRUCTURE ABOVE. CONFIRM WITH ARCHITECT
- COORDINATE LIGHT FIXTURE, MECHANICAL, PLUMBING, ALONG WITH ANY OTHER SYSTEMS AS REQUIRED TO NOT INTERFERE WITH ONE ANOTHER.
- ALL LIGHT FIXTURES AND HVAC SHALL BE CENTERED IN ALL ROOMS, 2X2 CEILING GRIDS, CLOUDS OR BETWEEN OTHER ELEMENTS OR EQUALLY SPACED UNLESS NOTED OTHERWISE.
- ALL 2X2 CEILING GRIDS TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE. NO PANEL SHALL BE LESS THAN 4" WIDE
- SEE MEP101 FOR ADDITIONAL MECHANICAL, ELECTRICAL, AND PLUMBING NOTES.
- REPLACE ANY CEILING TILES IN CEILINGS THAT ARE TO REMAIN.
- ALL BULKHEAD HEIGHTS AT NON-CABINERY LOCATIONS TO BE \_\_\_\_ UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL BULKHEAD HEIGHTS
- REFER TO INTERIOR ELEVATIONS AND RCP FOR UNDER CABINET LIGHTING LOCATIONS.
- REFER TO ROOM FINISH KEY AND SCHEDULE FOR ACP DESIGNATIONS
- ALL DIMENSIONS ARE FROM CENTER LINE OF FIXTURE TO FINISHED FACE OF WALL
- PATCH AND REPAIR EXISTING CEILING AS REQUIRED THAT WAS DISTURBED DURING DEMOLITION AND/OR NEW CONSTRUCTION ACTIVITIES. PATCH AND REPAIR TO MATCH EXISTING ADJACENT CONSTRUCTION, SUPPORT SYSTEM, CEILING FINISH, PATTERN AND ELEVATION.

**REFLECTED CEILING LEGEND**



**LIGHT FIXTURE LEGEND**

TAG/SYMBOL	MANUFACTURER & DESCRIPTION	MODEL # / URL
○	LITHONIA 6" CYLINDER CAN LIGHT	LDN6 CYLINDER SERIES: <a href="https://lithonia.acuitybrands.com/products/detail/564953/lithonia-lighting/ldn6-cylinder-series/led-cylinders">https://lithonia.acuitybrands.com/products/detail/564953/lithonia-lighting/ldn6-cylinder-series/led-cylinders</a>
⊙	LITHONIA 6" RECESSED CAN LIGHT OR WALL WASH	LDN6: <a href="https://lithonia.acuitybrands.com/products/detail/1112971/lithonia-lighting/contractor-select-ldn6-round-series">https://lithonia.acuitybrands.com/products/detail/1112971/lithonia-lighting/contractor-select-ldn6-round-series</a>
—	BEACH LIGHTING ULTRA SLIM LED UNDERCABINET LIGHT	BEA380917: <a href="https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=380917&amp;cat_id=321">https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=380917&amp;cat_id=321</a>
^	POWERLED SURFACE UNDERCABINET PUCK LIGHT	DL5472984: <a href="https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=472984&amp;cat_id=136">https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=472984&amp;cat_id=136</a>
○	LITHONIA HIGH BAY LED LIGHT FIXTURE	JCBL: <a href="https://www.acuitybrands.com/products/detail/560426/lithonia-lighting/jcbl/led-high-bay">https://www.acuitybrands.com/products/detail/560426/lithonia-lighting/jcbl/led-high-bay</a>
⊞	BROAN EXHAUST FAN WITH LED LIGHT, 110 CFM	NIUTONE FLEX SERIES: <a href="http://www.broan-nutone.com/en-us/product/ventilationfans/791ledntm">www.broan-nutone.com/en-us/product/ventilationfans/791ledntm</a>
⊞	LITHONIA EMERGENCY LIGHT	ELM6L: <a href="https://lithonia.acuitybrands.com/products/detail/804151/lithonia-lighting/elm6l-emergency-light/quantum-led-adjustable-optics-1100-lumens-emergency-light">https://lithonia.acuitybrands.com/products/detail/804151/lithonia-lighting/elm6l-emergency-light/quantum-led-adjustable-optics-1100-lumens-emergency-light</a>
—	LITHONIA EXIT-UNIT COMBO	LHQM LED: <a href="https://lithonia.acuitybrands.com/products/detail/48281/lithonia-lighting/lhqm-led/quantum-led-exit-unit-combo">https://lithonia.acuitybrands.com/products/detail/48281/lithonia-lighting/lhqm-led/quantum-led-exit-unit-combo</a>
—	BROWNLEE LIGHTING VANITY LIGHT	FLOW SQ: <a href="https://www.brownlee.com/product/5165LED">https://www.brownlee.com/product/5165LED</a>
⊞	LITHONIA LED FLAT PANEL 2X2' OR 2X4' LED FIXTURE	CPX: <a href="https://www.acuitybrands.com/products/detail/855690/lithonia-lighting/contractor-select-cpx-led-flat-panel/most-popular-and-readily-available-configurations-for-your-everyday-lighting-needs">https://www.acuitybrands.com/products/detail/855690/lithonia-lighting/contractor-select-cpx-led-flat-panel/most-popular-and-readily-available-configurations-for-your-everyday-lighting-needs</a>
—	MARK ARCHITECTURAL LIGHTING, 4' LED RECESSED STRIP LIGHT	SLOT 4 RECESSED: <a href="https://marklighting.acuitybrands.com/products/detail/122734/mark-">https://marklighting.acuitybrands.com/products/detail/122734/mark-</a>
⊞	BIG ASS FANS FAN WITH LIGHT	HAIKU L: <a href="https://www.bigassfans.com/fans/haiku/">https://www.bigassfans.com/fans/haiku/</a>
⊞	BIG ASS FANS 8" DIA. FAN	I6: <a href="https://www.bigassfans.com/fans/i6/">https://www.bigassfans.com/fans/i6/</a>

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PROJECT NAME  
708 N BURDICK STREET  
 PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
KYLE GULAU

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CONSTRUCTION DOCUMENTS

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REFLECTED CEILING PLANS

**A201**



**GENERAL NOTES**

NEW RUBBER ROOF. SEE A211 FOR DETAILS

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 CLIENT  
 KYLE GULAU

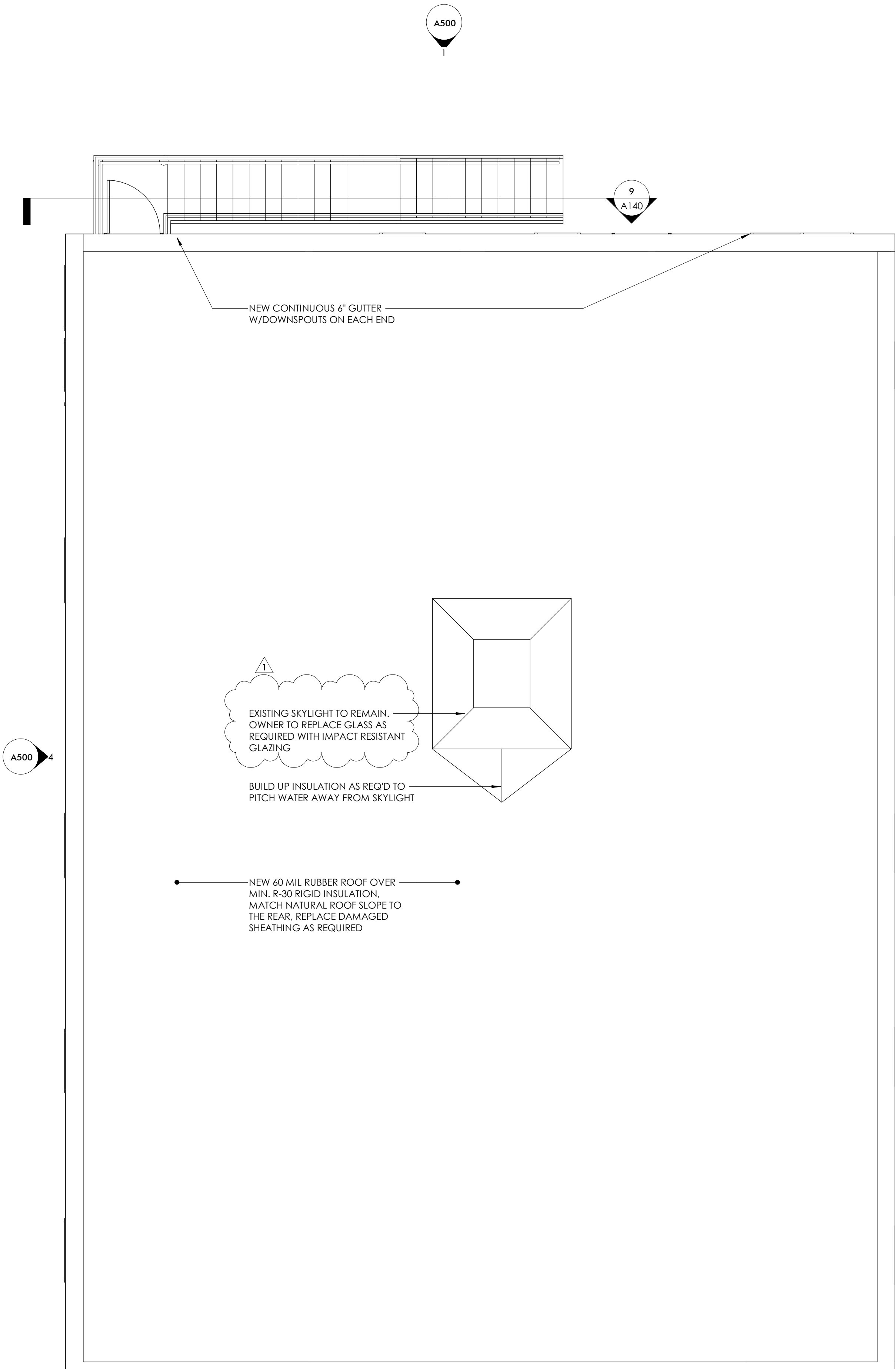
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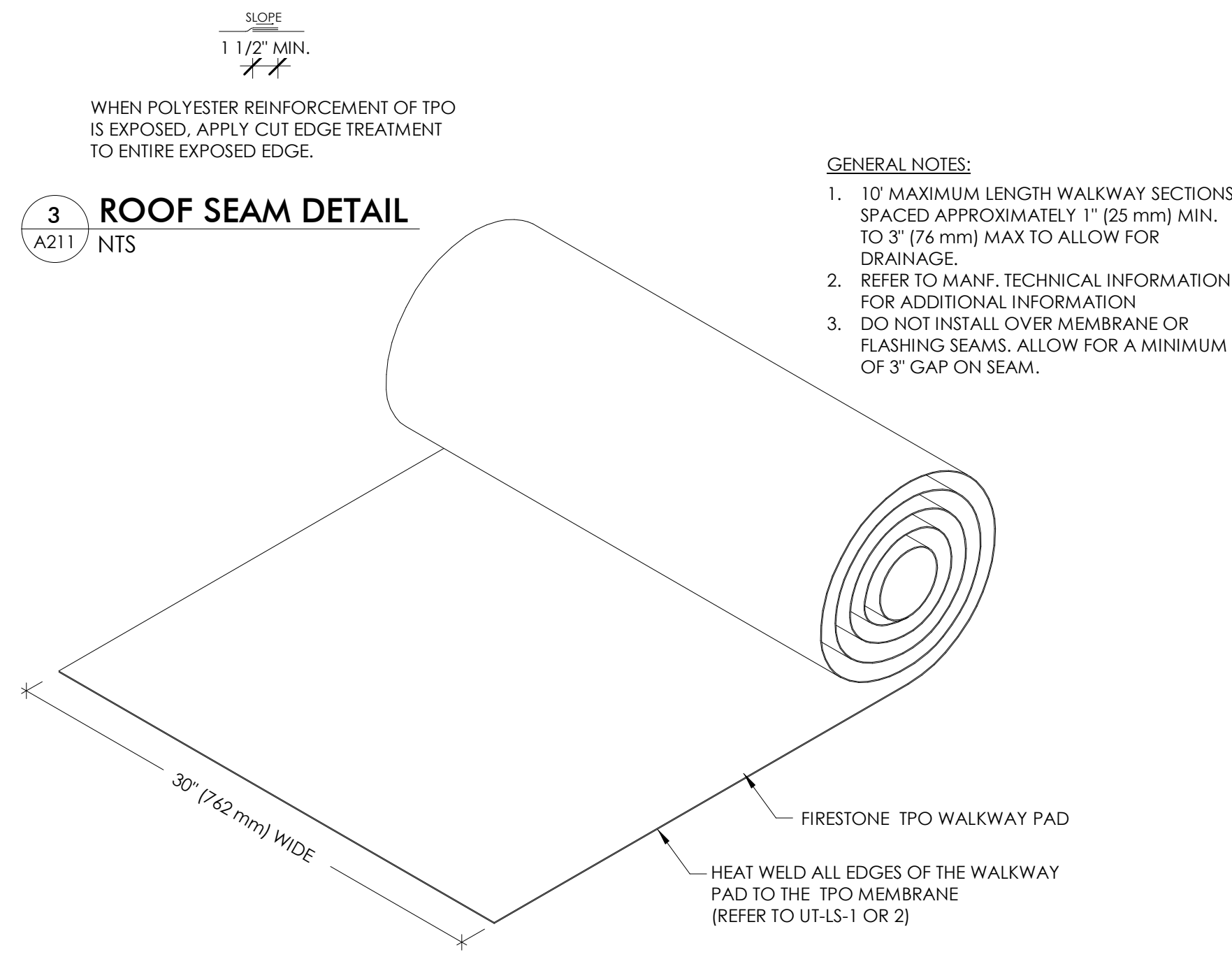
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PROJECT NUMBER  
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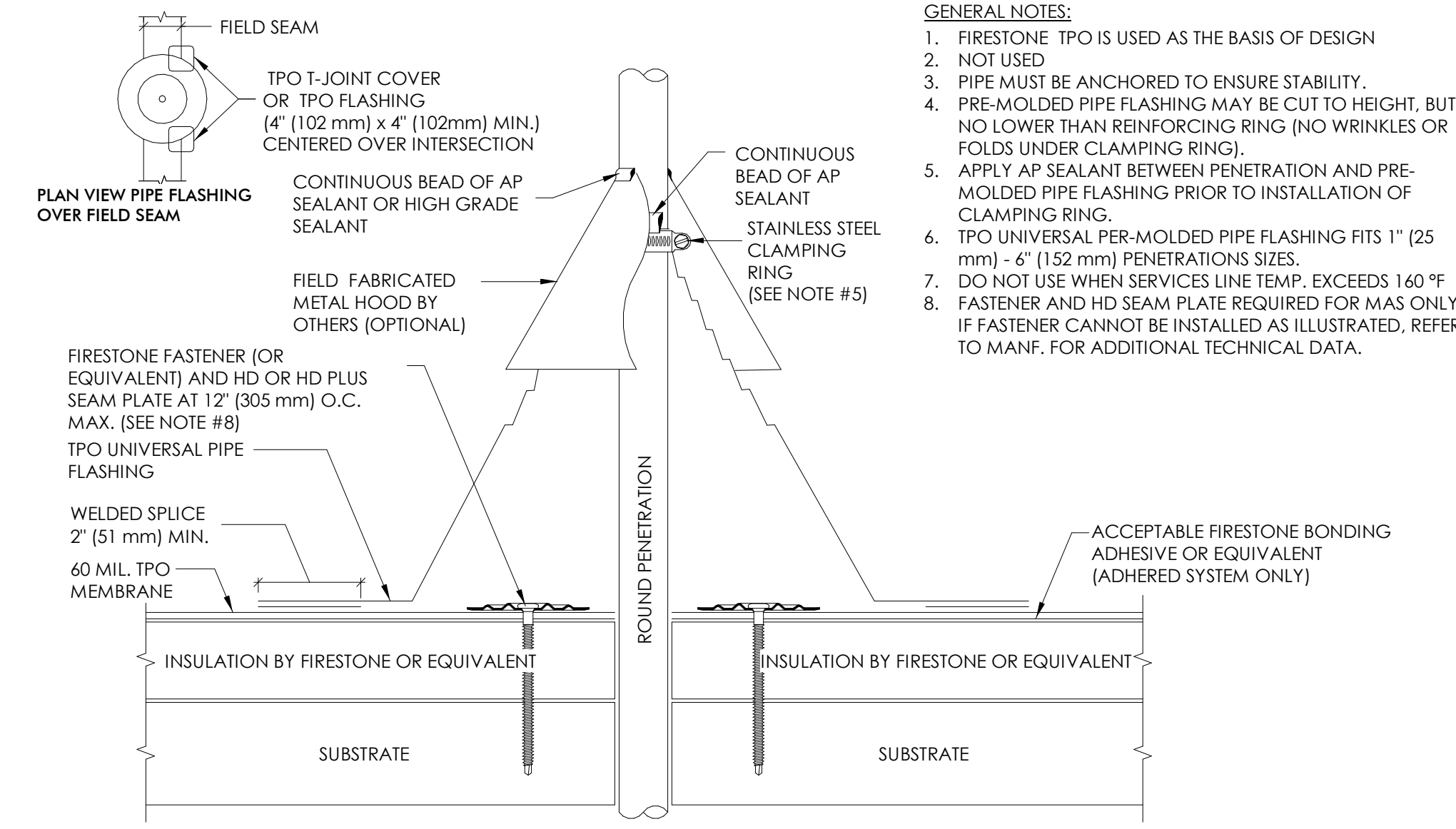
ROOF PLAN  
**A210**



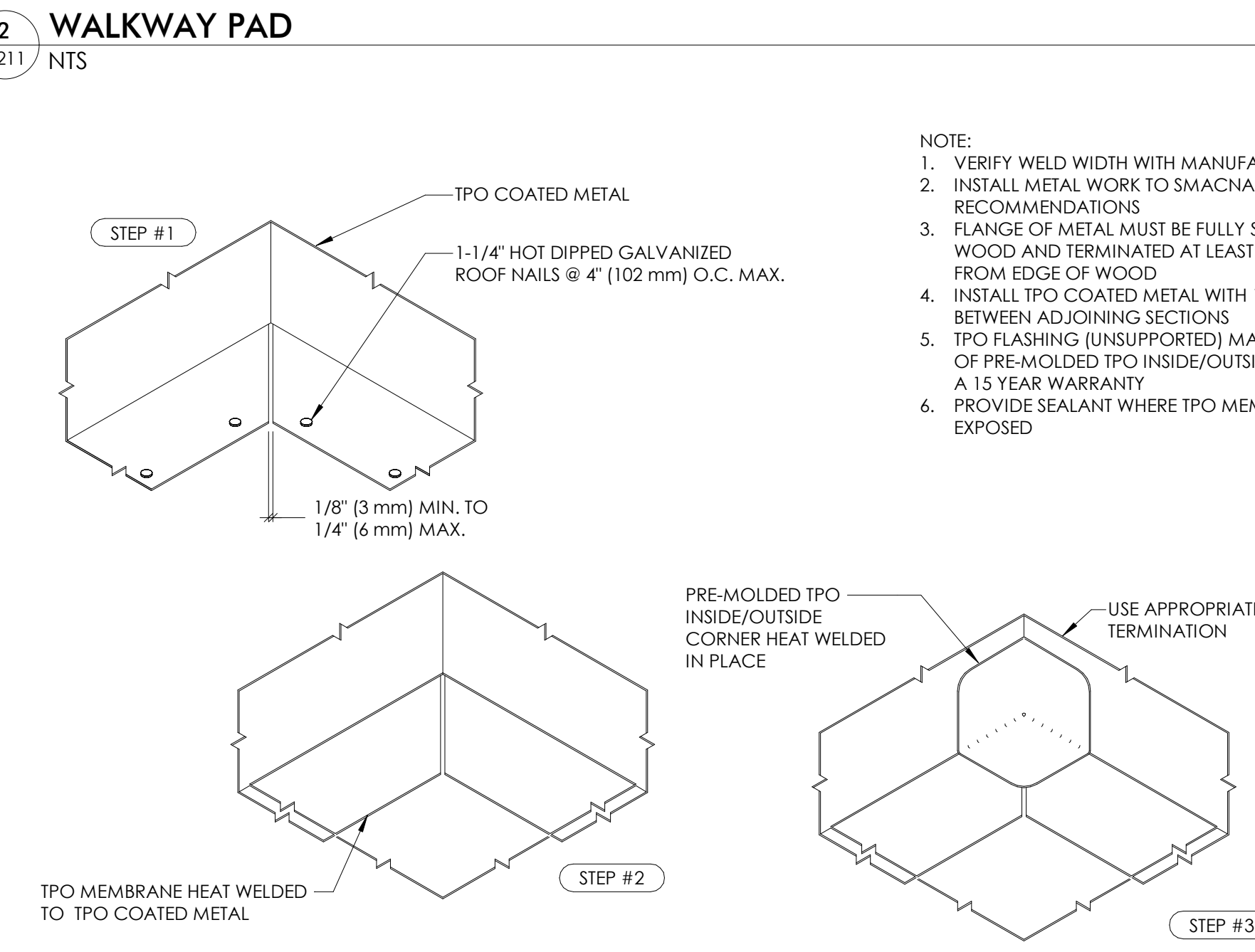
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 A210 ROOF PLAN  
 1/4" = 1'-0"



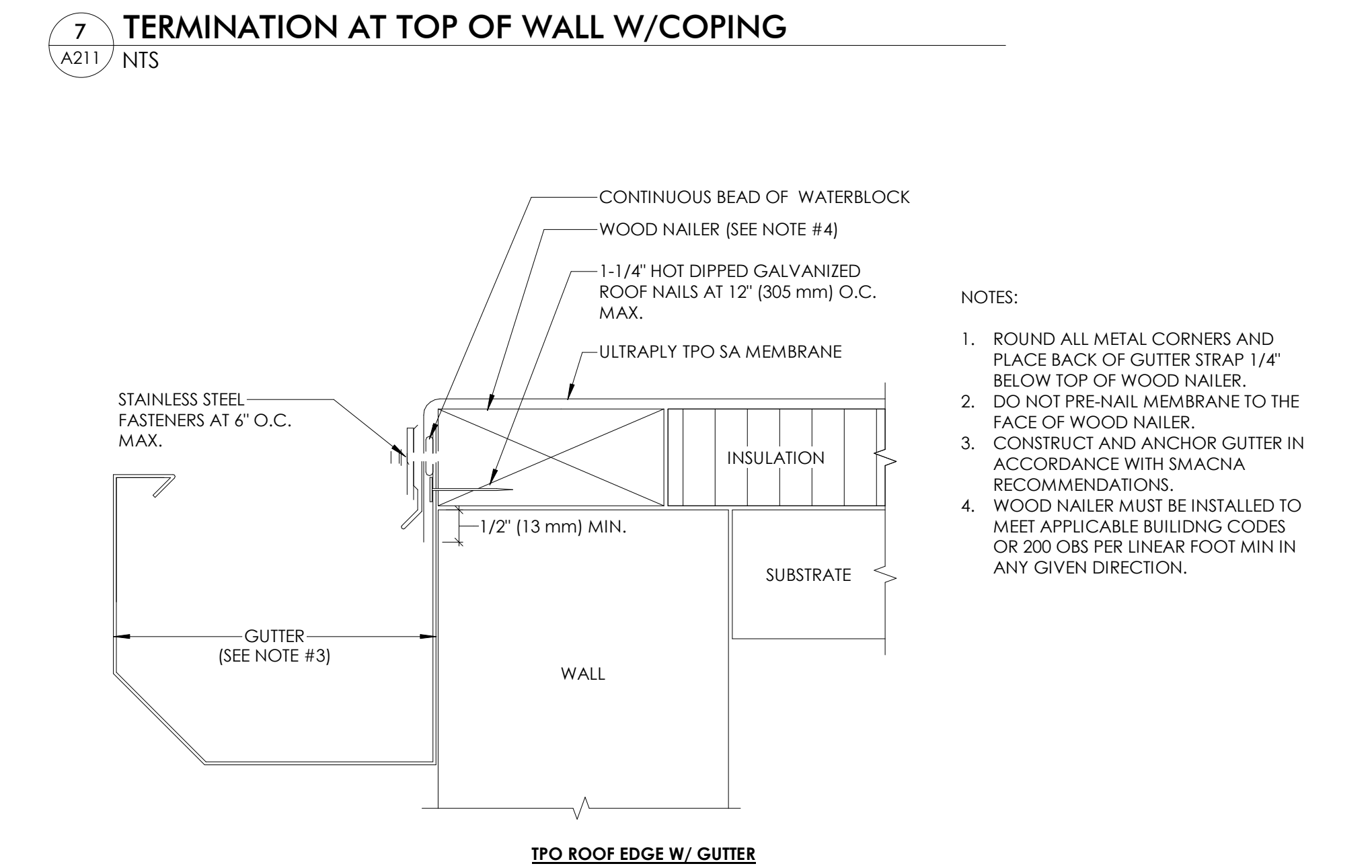
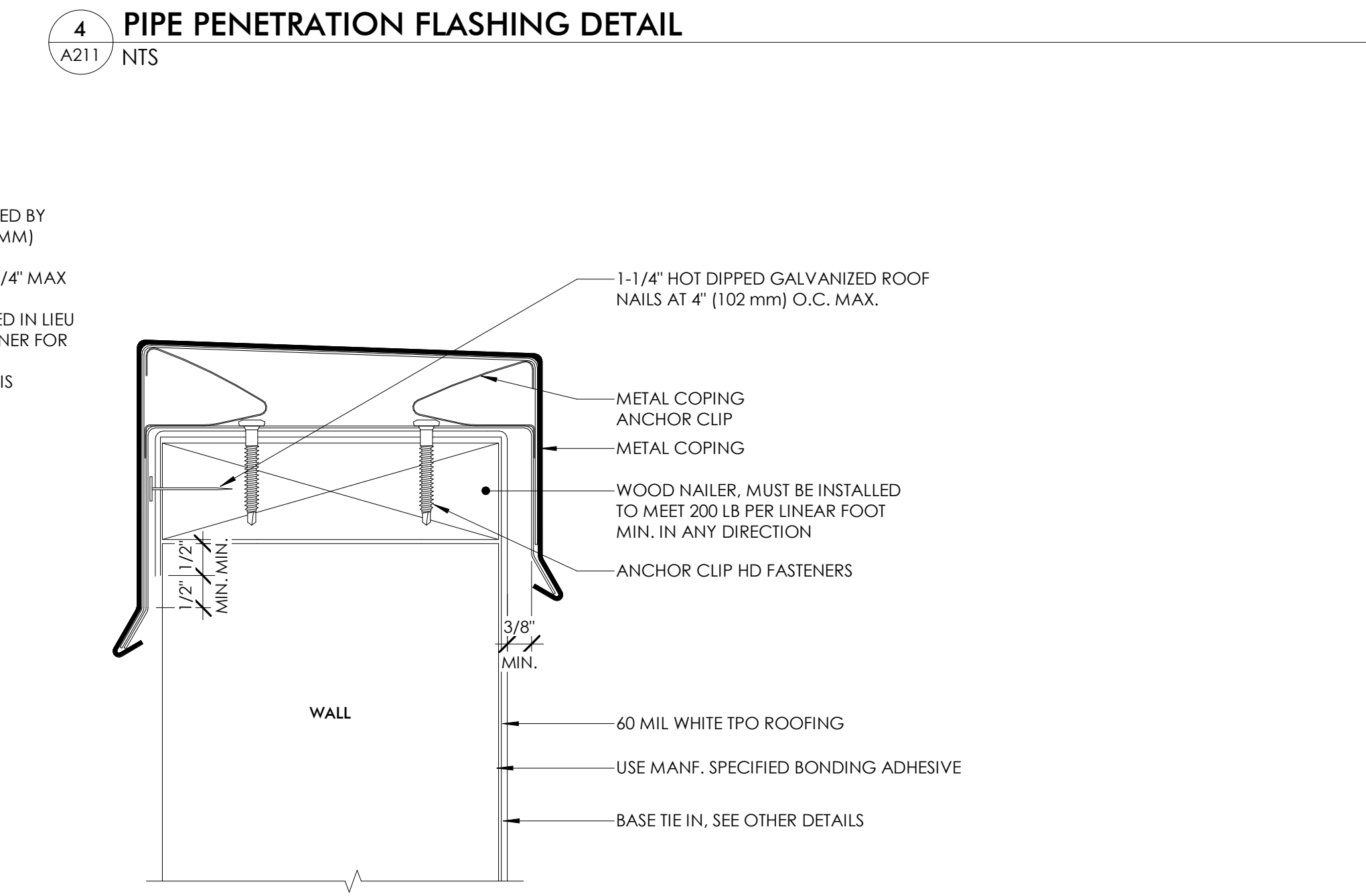
- GENERAL NOTES:**
- TO MAXIMUM LENGTH WALKWAY SECTIONS, SPACED APPROXIMATELY 1' (25 mm) MIN. TO 3' (76 mm) MAX TO ALLOW FOR DRAINAGE.
  - REFER TO MANF. TECHNICAL INFORMATION FOR ADDITIONAL INFORMATION.
  - DO NOT INSTALL OVER MEMBRANE OR FLASHING SEAMS. ALLOW FOR A MINIMUM OF 3" GAP ON SEAM.



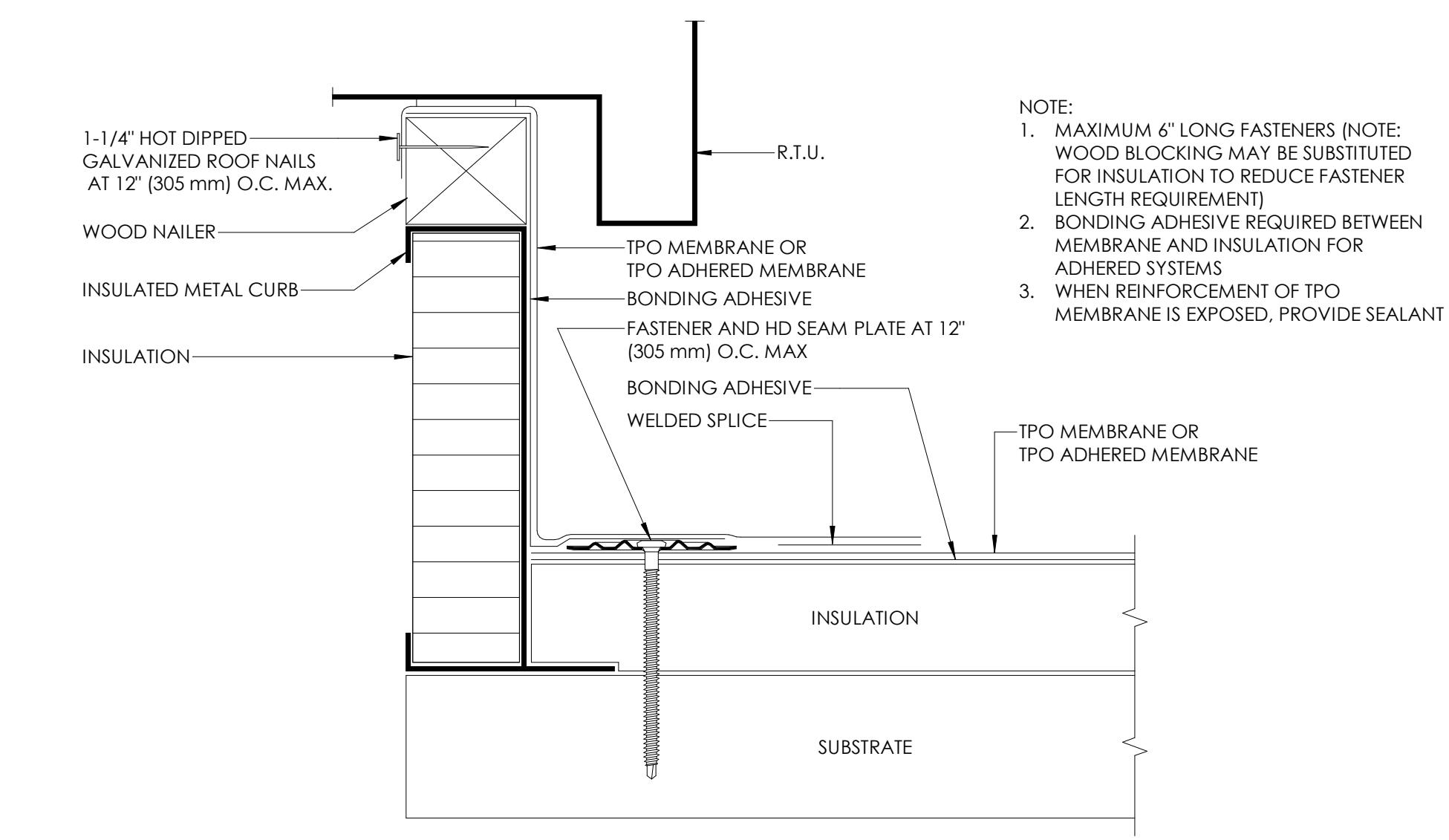
- GENERAL NOTES:**
- FIRESTONE TPO IS USED AS THE BASIS OF DESIGN.
  - NOT USED.
  - PIPE MUST BE ANCHORED TO ENSURE STABILITY.
  - PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
  - APPLY AP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
  - TPO UNIVERSAL PER-MOLDED PIPE FLASHING FITS 1" (25 mm) - 6" (152 mm) PENETRATIONS SIZES.
  - DO NOT USE WHEN SERVICES LINE TEMP. EXCEEDS 160 °F.
  - FASTENER AND HD SEAM PLATE REQUIRED FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO MANF. FOR ADDITIONAL TECHNICAL DATA.



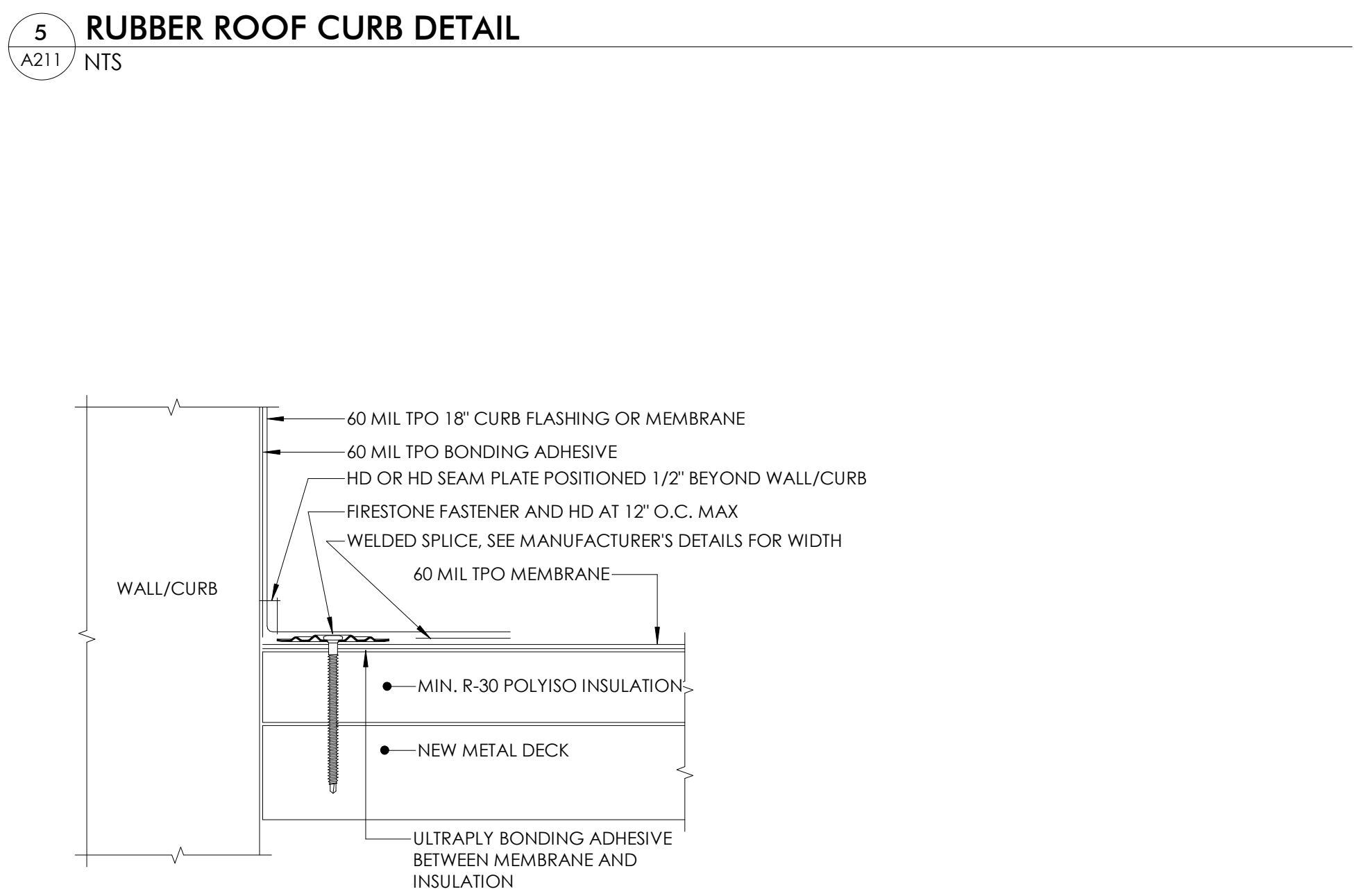
- NOTE:**
- VERIFY WELD WIDTH WITH MANUFACTURER.
  - INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
  - FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13MM) FROM EDGE OF WOOD.
  - INSTALL TPO COATED METAL WITH 1/8" TO 1/4" MAX BETWEEN ADJOINING SECTIONS.
  - TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED TPO INSIDE/OUTSIDE CORNER FOR A 15 YEAR WARRANTY.
  - PROVIDE SEALANT WHERE TPO MEMBRANE IS EXPOSED.



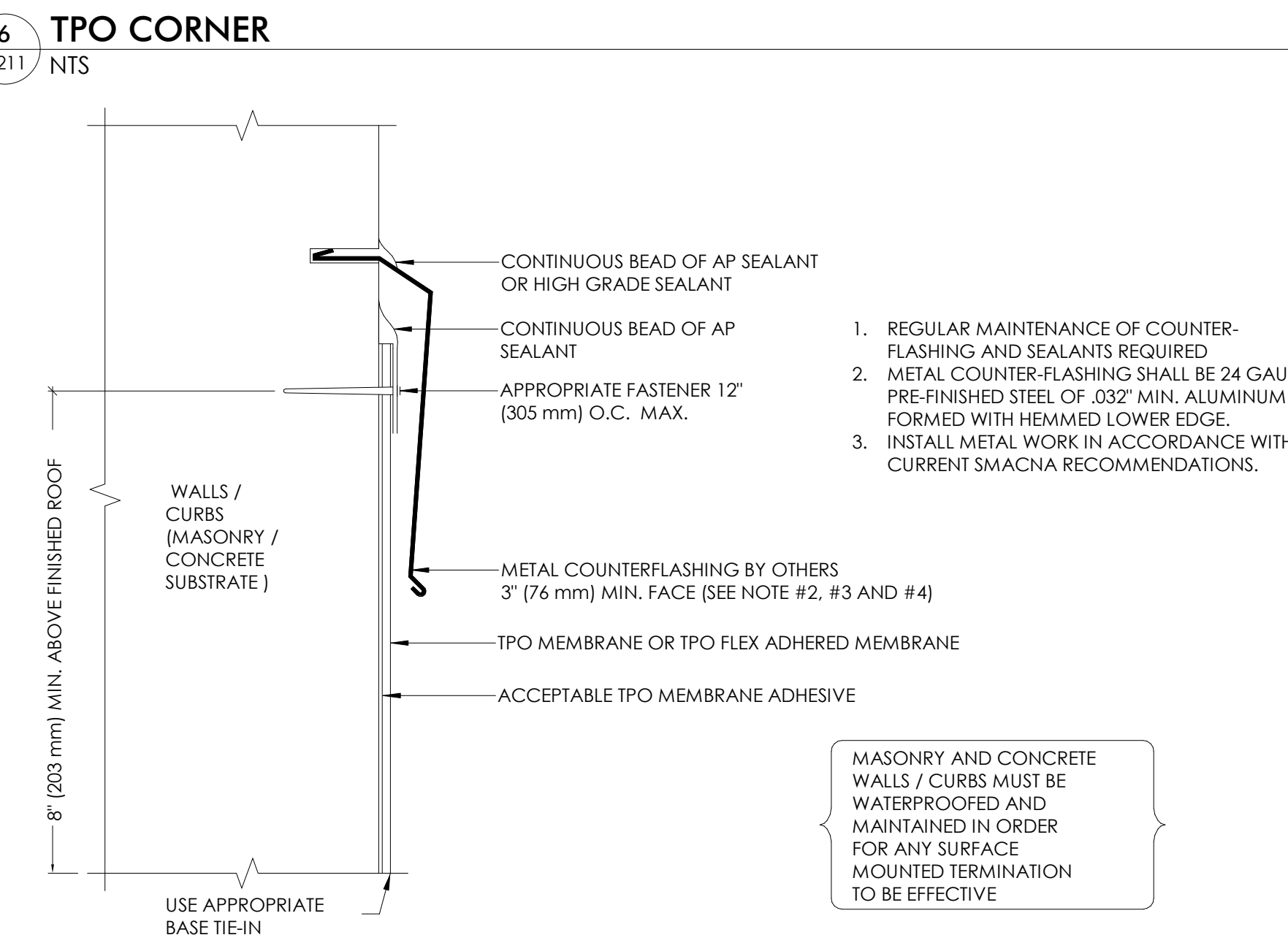
- NOTES:**
- ROUND ALL METAL CORNERS AND PLACE BACK OF GUTTER STRAP 1/4" BELOW TOP OF WOOD NAILER.
  - DO NOT PRE-NAIL MEMBRANE TO THE FACE OF WOOD NAILER.
  - CONSTRUCT AND ANCHOR GUTTER IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
  - WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 OBS PER LINEAR FOOT MIN IN ANY GIVEN DIRECTION.



- NOTE:**
- MAXIMUM 4" LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
  - BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR ADHERED SYSTEMS.
  - WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, PROVIDE SEALANT.



**9 ROOF BASE DETAIL**  
 A211 NTS



**10 ROOF BASE REGLET**  
 A211 NTS

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**PROJECT NAME**  
708 N BURDICK STREET  
**PROJECT ADDRESS**  
708 N BURDICK, KALAMAZOO, MI  
**CLIENT**  
KYLE GULAU

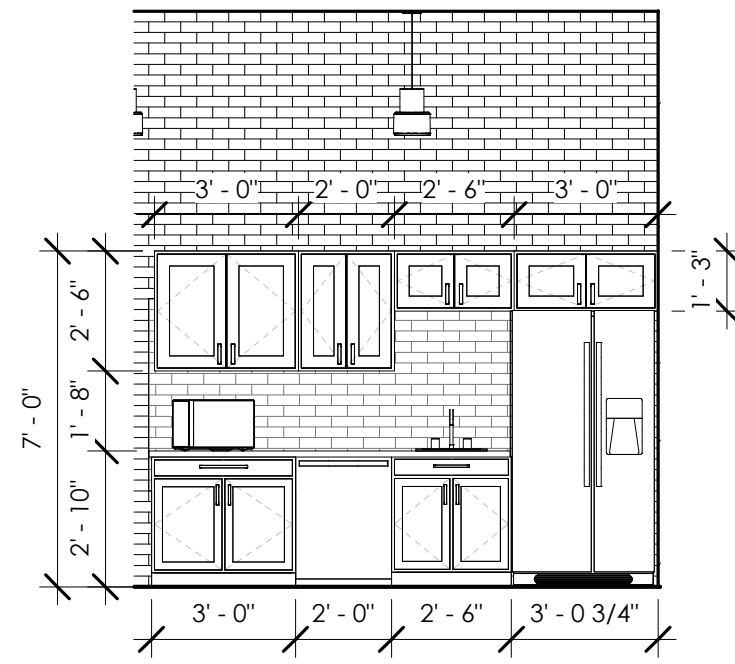
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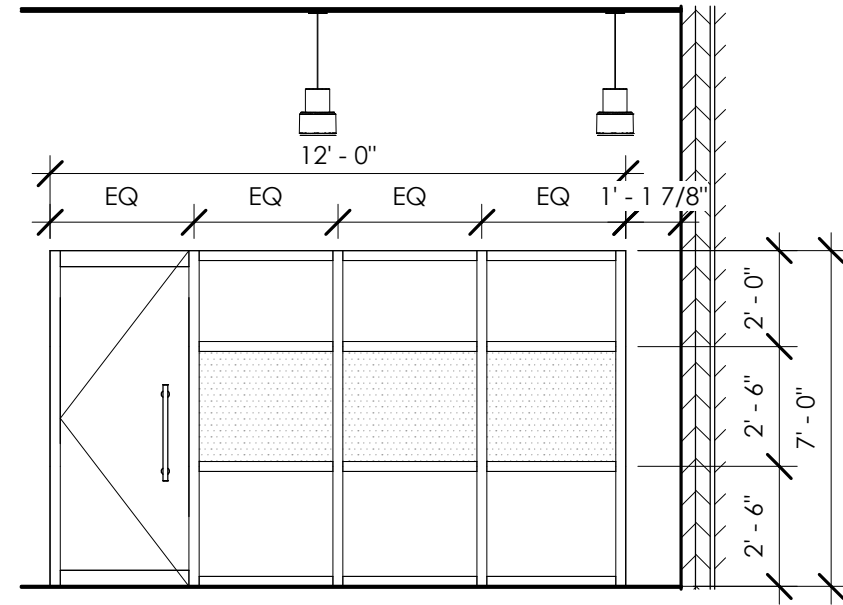
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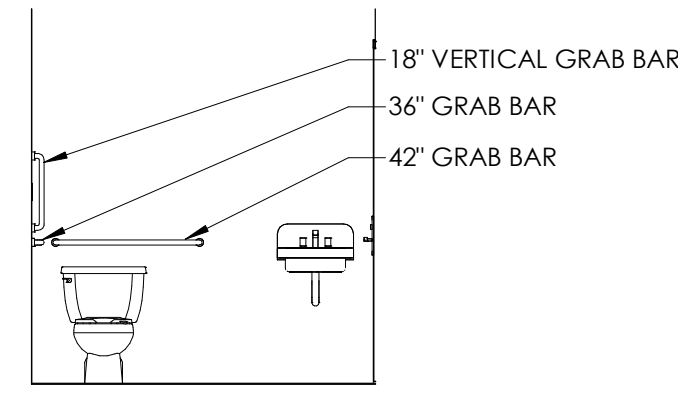
**RUBBER ROOF DETAILS**  
**A211**



**13 OFFICE KITCHENETTE**  
 A300 1/4" = 1'-0"



**21 CONFERENCE ROOM**  
 A300 1/4" = 1'-0"



**14 OFFICE RESTROOM**  
 A300 1/4" = 1'-0"

**GENERAL NOTES**

1. REFER TO ROOM FINISH SCHEDULE FOR BASE DESIGNATIONS
2. ACTUAL GROMMET LOCATIONS TO BE DETERMINED BY OWNER. SEE ROOM FINISH SCHEDULE FOR GROMMET COLORS. PROVIDE GROMMETS AT ALL KNEE SPACE LOCATIONS
3. PROVIDE FILLER PIECES AT CASEWORK AS REQUIRED
4. LAMINATE ALL VISIBLE SURFACES OF CASEWORK TYP.
5. DRAWERS LABELED "FILES" ARE TO HAVE STEEL RAILS FOR HANGING FILES, (2) PER DRAWER. FILES SHOULD HANG PERPENDICULAR TO DRAWER FACE IF LESS THAN 15" WIDE AND PARALLEL TO DRAWER IF GREATER THAN 15" WIDE
6. ALL UPPER CABINETS TO BE 15" DEEP UNLESS NOTED OTHERWISE
7. PROVIDE INSULATED PIPE WRAP ON ALL EXPOSED PIPING.
8. SEE SHEET T002 FOR ACCESSORY MOUNTING HEIGHTS UNLESS SHOWN OTHERWISE
9. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS
10. WHERE A SPECIFIED BRACKET IS NOT INDICATED PROVIDE METAL BRACKETS AS REQUIRED TO SUPPORT COUNTERS AND SHELVES. BRACKETS SHOULD BE LOCATED AT ANY UNSUPPORTED LENGTH GREATER THAN 36". PAINT BRACKETS TO MATCH ADJACENT WALL
11. PROVIDE BLOCKING IN WALLS WHERE NECESSARY. THESE LOCATIONS CONSIST OF, BUT ARE NOT LIMITED TO THE FOLLOWING: TOILET ACCESSORIES, TACKBOARDS, HANDRAILS, WALL MOUNTED EQUIPMENT AND OWNER DESIGNATED EQUIPMENT LOCATIONS.
12. ALL EXPOSED EXTERIOR SURFACES OF CASEWORK TO BE FINISHED TO MATCH THE CASEWORK
13. PAINT GRILLES AND DIFFUSERS TO MATCH ADJACENT WALL
14. COORDINATE ALL CABINERY SIZES WITH APPLIANCES
15. ALL DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS INDICATED OTHERWISE

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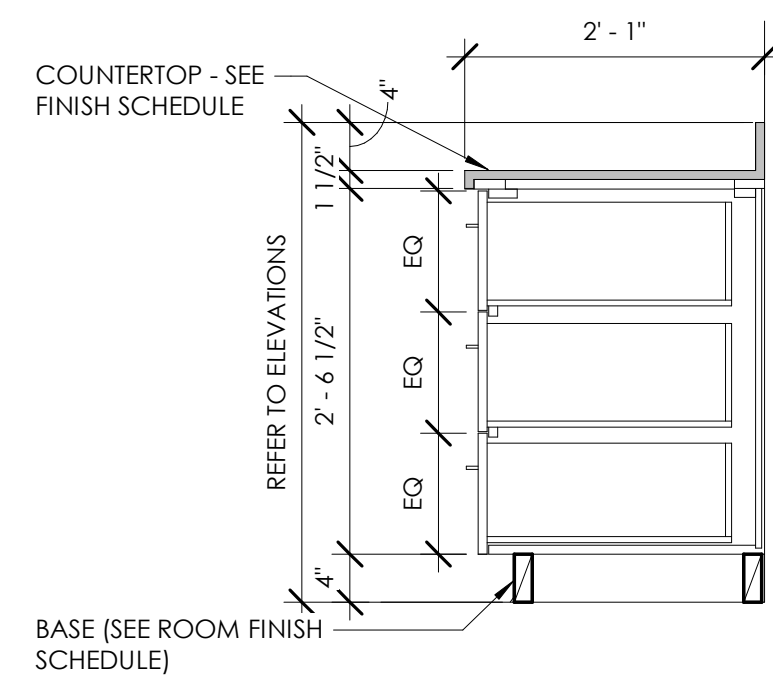
PROJECT NUMBER  
 2022.034

INTERIOR ELEVATIONS

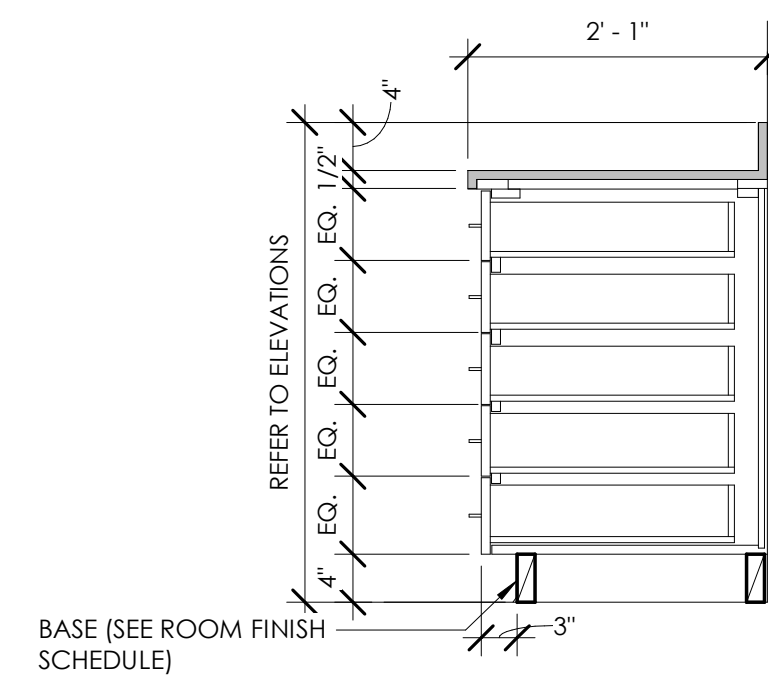
**A300**

**GENERAL NOTES**

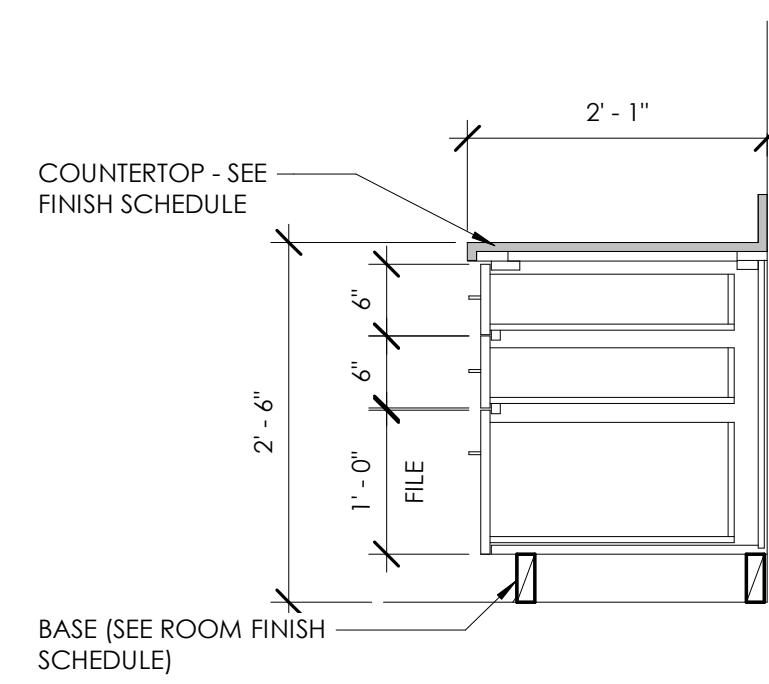
1. ALL BASE CABINET DEPTHS TO BE 2'-0" (WALL TO OUTSIDE DOOR FACE) UNLESS NOTED OTHERWISE.
2. ALL WALL CABINET DEPTHS TO BE 1'-3" (WALL TO DOOR FACE) UNLESS NOTED OTHERWISE
3. ALL COUNTERTOP DEPTHS TO BE 2'-1" UNLESS NOTED OTHERWISE. COUNTERTOPS TO EXTEND 1" BEYOND OPEN END EDGE OF MILLWORK UNLESS NOTED OTHERWISE
4. REFER TO INTERIOR ELEVATIONS FOR DIMENSIONS OF ALL CABINETRY
5. REFER TO FINISH SCHEDULES FOR MILLWORK FINISH
6. REFER TO FINISH SCHEDULES FOR COUNTERTOP MATERIAL AND FINISH
7. ALL BASE CABINETS TO HAVE A SINGLE SHELF UNLESS NOTED OTHERWISE
8. ALL WALL/VALANCE CABINETS LESS THAN 2'-0" IN HEIGHT TO HAVE A SINGLE SHELF, AND GREATER THAN 2'-0" IN HEIGHT TO HAVE TWO SHELVES, UNLESS NOTED OTHERWISE
9. ALL SHELVES TO BE ADJUSTABLE UNLESS NOTED OTHERWISE
10. REFER TO INTERIOR ELEVATION FOR INDICATION OF LOCKABLE CABINETS
11. REFER TO INTERIOR ELEVATIONS FOR DOOR SWINGS
12. ALL WALL CABINETS TO BE MOUNTED 7'-6" AFF TO TOP OF CABINET UNLESS NOTED OTHERWISE
13. DOOR HANDLE PULLS ARE SHOWN FOR GRAPHICAL REFERENCE ONLY. REFER TO ROOM FINISH SCHEDULE
14. ALL BASE DRAWERS/ APRONS ARE 6" UNLESS NOTED OTHERWISE
15. ALL SPLASHES ARE 4" UNLESS NOTED OTHERWISE
16. ALL EXPOSED EXTERIOR SURFACES OF CASEWORK TO BE FINISHED TO MATCH THE CASEWORK



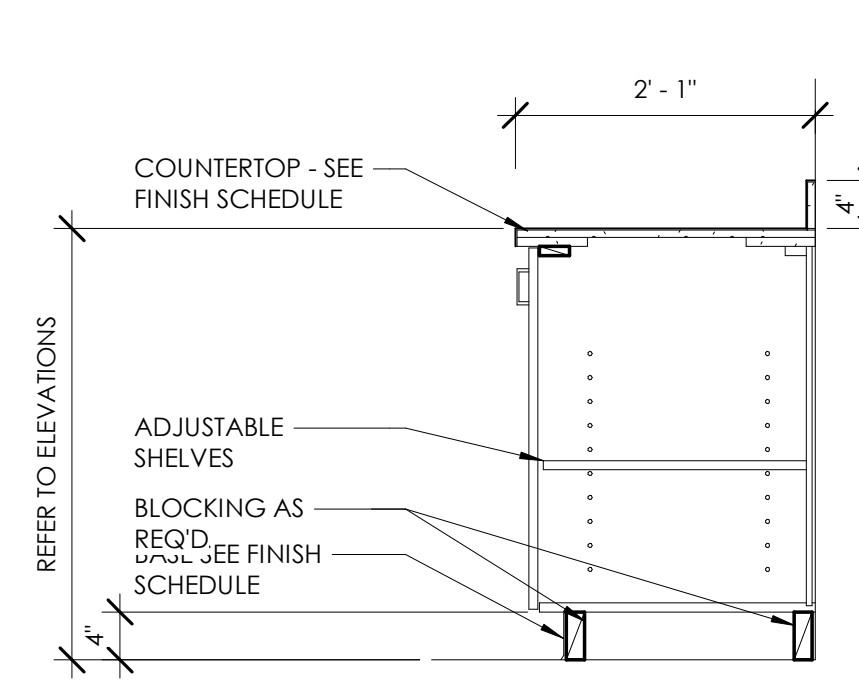
**1 BASE - 3 EQ DRAWER**  
 A310 3/4" = 1'-0"



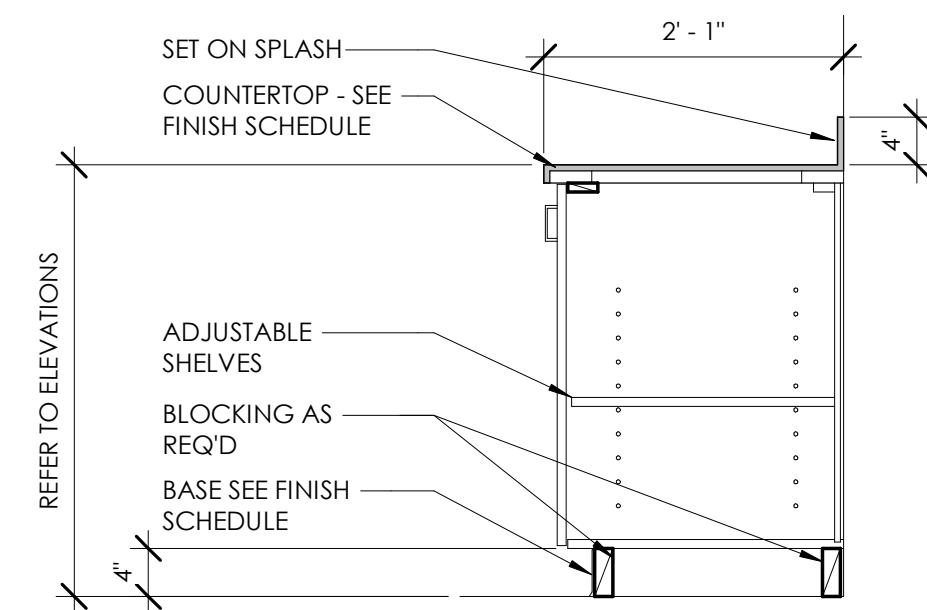
**2 BASE - 5 EQ. DRAWER**  
 A310 3/4" = 1'-0"



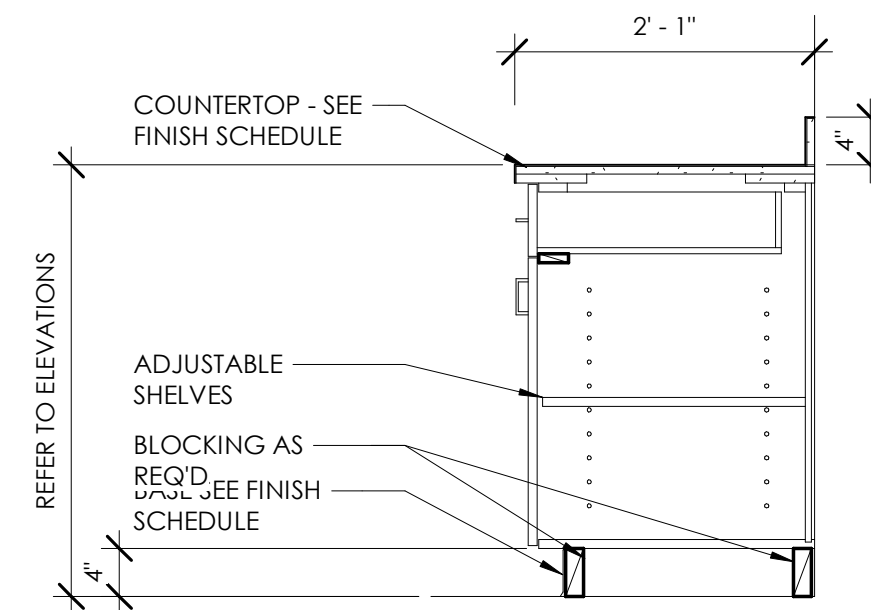
**3 BASE - DESK FILE**  
 A310 3/4" = 1'-0"



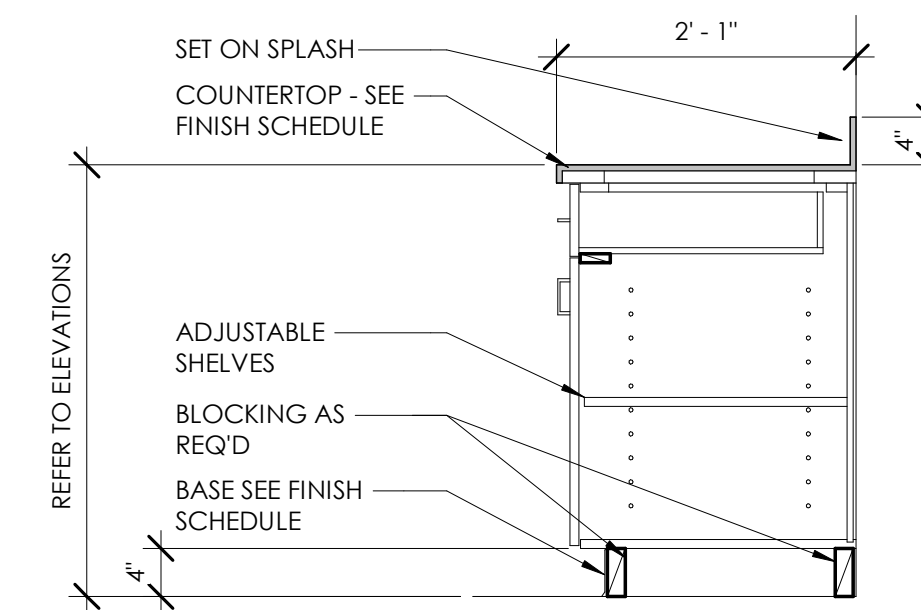
**4 BASE - DOOR - P.LAM TOP**  
 A310 3/4" = 1'-0"



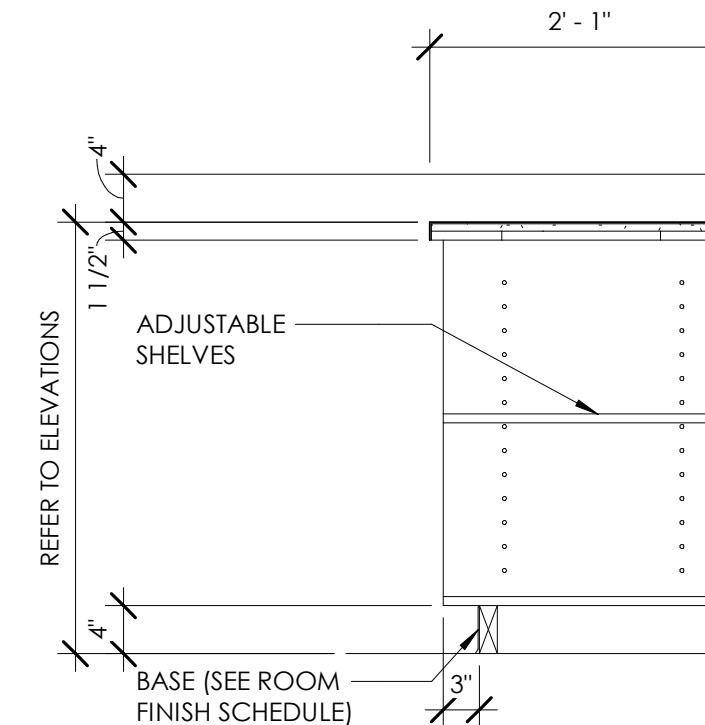
**5 BASE - DOOR - SS TOP**  
 A310 3/4" = 1'-0"



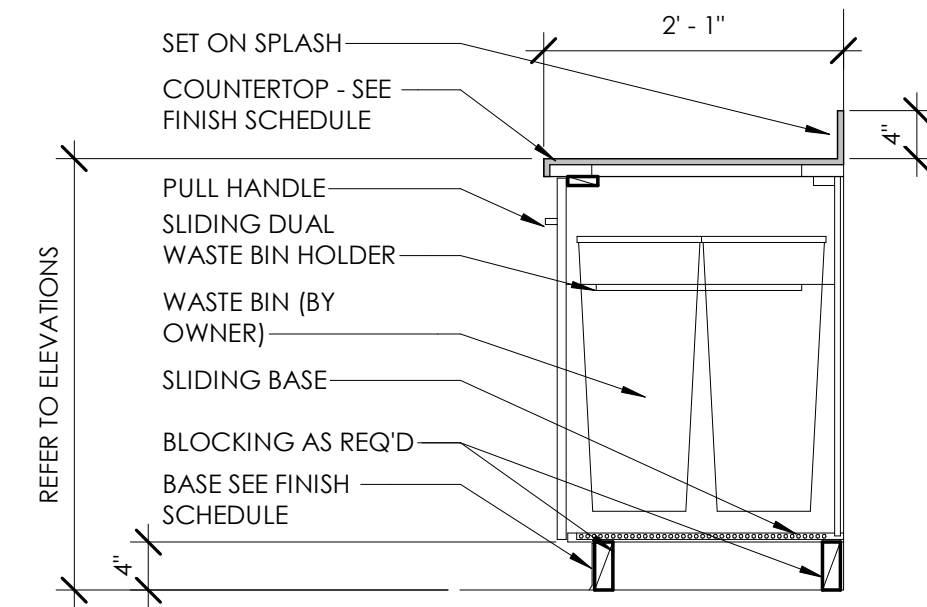
**6 BASE - DOOR/DRAWER - P.LAM TOP**  
 A310 3/4" = 1'-0"



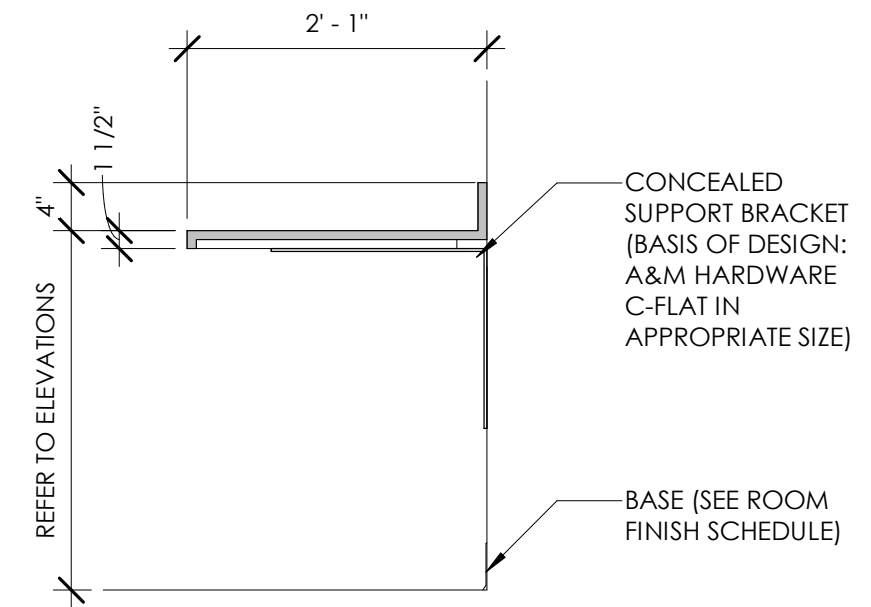
**7 BASE - DOOR/DRAWER - SS TOP**  
 A310 3/4" = 1'-0"



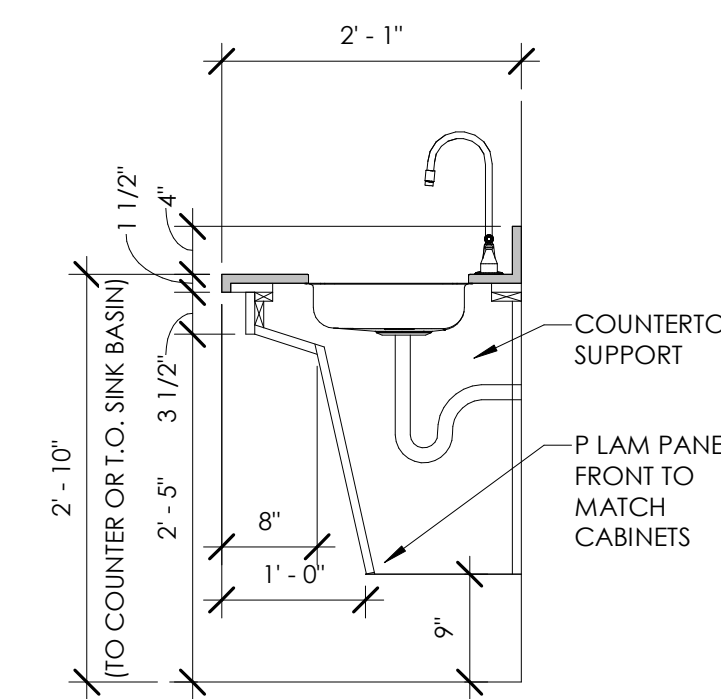
**8 BASE CABINET SECTION**  
 A310 3/4" = 1'-0"



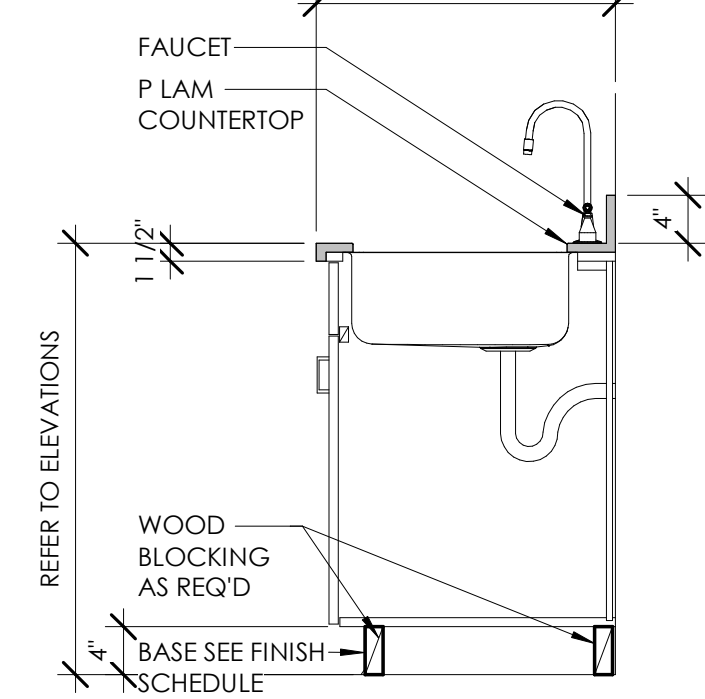
**9 BASE - TRASH**  
 A310 3/4" = 1'-0"



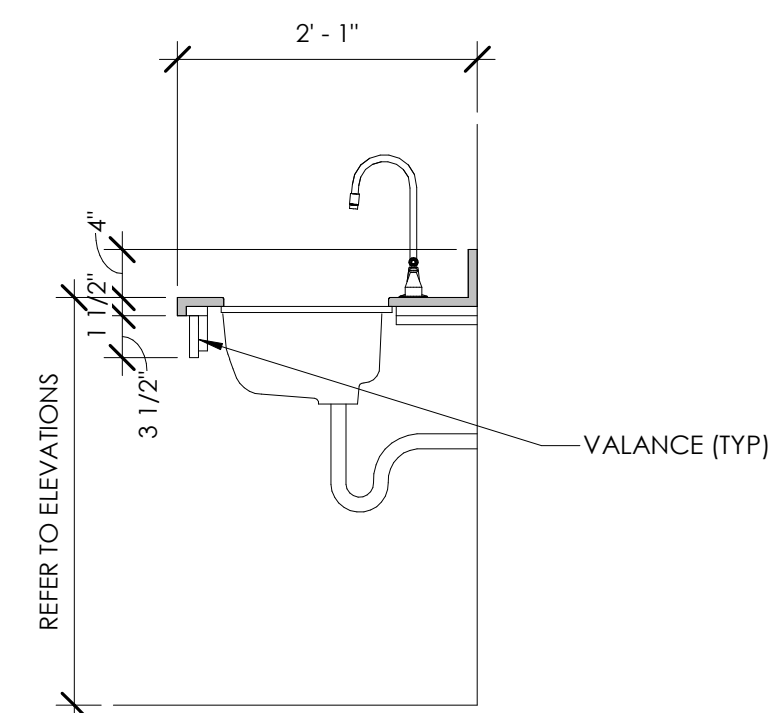
**10 COUNTER SECTION**  
 A310 3/4" = 1'-0"



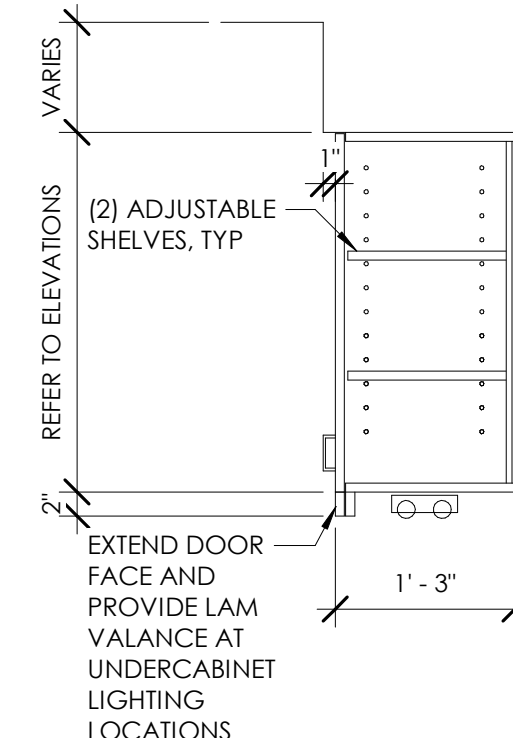
**11 COUNTER WITH SINK**  
 A310 3/4" = 1'-0"



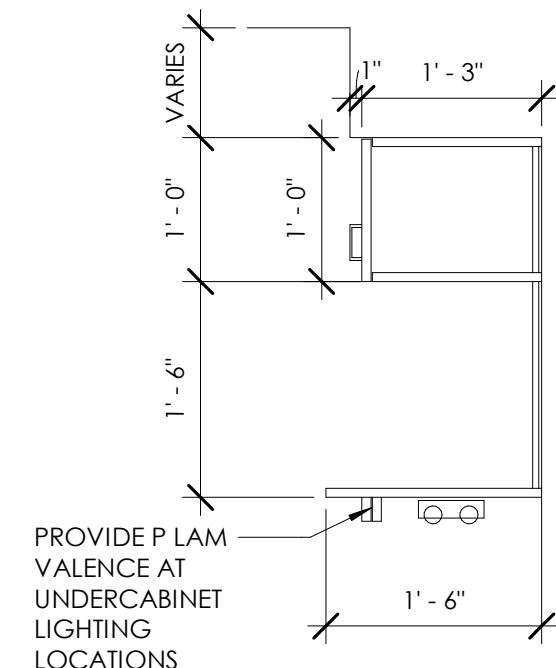
**12 SINK - BASE**  
 A310 3/4" = 1'-0"



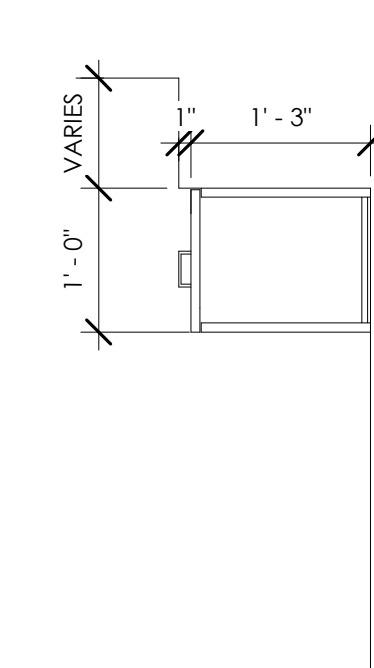
**13 SINK - COUNTER**  
 A310 3/4" = 1'-0"



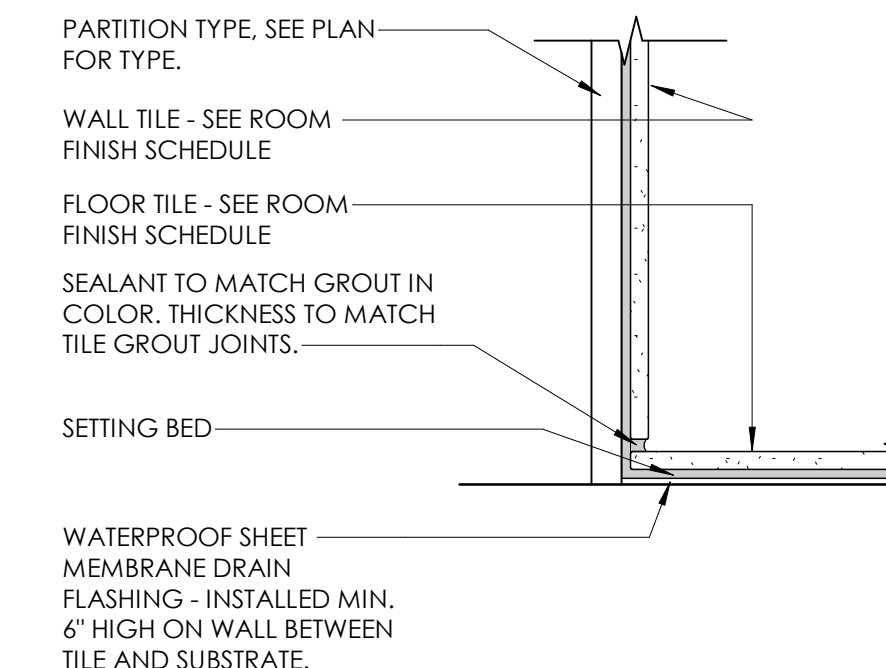
**14 UPPER CABINET**  
 A310 3/4" = 1'-0"



**15 UPPER CABINET**  
 A310 3/4" = 1'-0"



**16 UPPER CABINET**  
 A310 3/4" = 1'-0"



**17 CERAMIC TILE BASE**  
 A310 3" = 1'-0"

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PROJECT NAME  
 708 N BURDICK STREET  
 PROJECT ADDRESS  
 708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
 KYLE GULAU

ISSUE  
 CONSTRUCTION DOCUMENTS

REVISION

DRAWN BY Author  
 DATE 1/6/2024 9:52:21 PM  
 SCALE As indicated  
 STAMP

PROJECT NUMBER  
 2022.034

INTERIOR DETAILS

**A310**

DOOR SCHEDULE													
DOOR NUMBER	NEW OR EXIST	DOOR TYPE	FIRE RATING	DOOR			DOOR FRAME			DETAILS			COMMENTS
				WIDTH	HEIGHT	THICKNESS	DOOR MATL	DOOR FINISH	TYPE	FRAME MATL	HEAD	JAMB	
BASEMENT													
228	F			3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD			
229	F			3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD			
FIRST FLOOR													
100	EXISTING	FG		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.			
101	EXISTING	FG		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.			
102	EXISTING	FG		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.			
103	NEW	AG		2'-8 1/4"	7'-0"	1/2"	ALUM.		1	ALUM.	1/A400	2/A400	
104	EXISTING	F		2'-10"	7'-10"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.			
105	NEW	F		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.	1/A400	2/A400	
106	NEW	F		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.	1/A400	2/A400	
107	NEW	BF		5'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
108	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
109	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
110	NEW	F		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.	4/A400	5/A400	
111	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
112	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
113	NEW	F		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.	4/A400	5/A400	
114	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
115	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
116	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
117	NEW	BF		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
118	NEW	BF		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
SECOND FLOOR													
200	NEW	F		3'-0"	7'-0"	1 3/4"	H.M.	FACTORY FINISHED	1	H.M.	4/A400	5/A400	3/A400
201	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
202	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
203	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
204	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
205	NEW	SL		4'-0"	7'-0"	1 3/4"	WOOD		1	WOOD			
206	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
207	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
208	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
209	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
210	NEW	F		1'-10"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD			
211	NEW	F		1'-10"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD			
212	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
213	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
214	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
215	NEW	SL		4'-0"	7'-0"	1 3/4"	WOOD		1	WOOD	1/A400	2/A400	
216	NEW	SL		4'-0"	7'-0"	1 3/4"	WOOD		1	WOOD	1/A400	2/A400	
217	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
218	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
220	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
221	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
222	NEW	SL		6'-0"	7'-0"	1 3/4"	WOOD		1	WOOD	1/A400	2/A400	
223	NEW	F		2'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	
224	NEW	F		3'-0"	7'-0"	1 3/4"	WOOD	FACTORY FINISHED	1	WOOD	1/A400	2/A400	

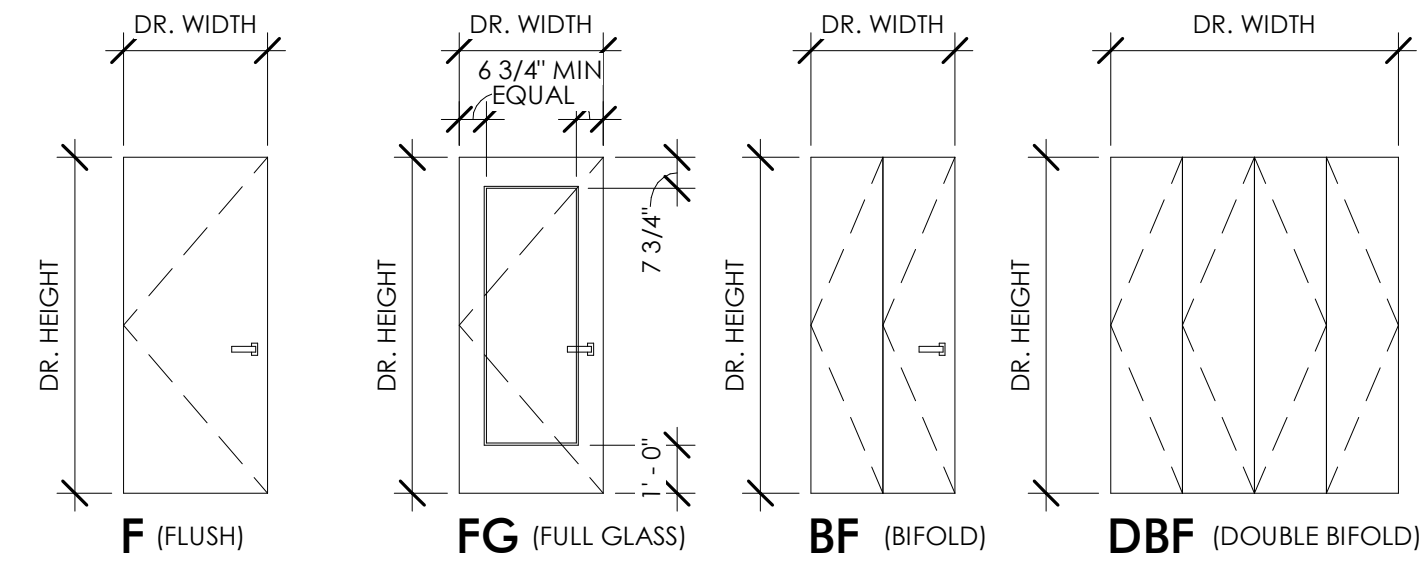
WINDOW SCHEDULE									
CW	SIZE		MATL	GLAZING	DETAILS			FIRE RATING	COMMENTS
	WIDTH	HEIGHT			HEAD	JAMB	SILL		
FIRST FLOOR									
A	5'-0"	4'-7 3/8"			8 / A400	7 / A400	6 / A400		
BBBBBB	3'-4"	3'-1"							
C	5'-0"	1'-7"			8 / A400	7 / A400	6 / A400		
D	3'-5"	6'-6"			8 / A400	7 / A400	6 / A400		
DDDDDD	3'-5"	6'-6"							
EEEEEE	1'-8"	7'-0"							
FFFFFF	6'-2 3/4"	2'-7 1/4"							
XXXXXX	3'-5"	3'-3"							
SECOND FLOOR									
A	2'-4"	4'-5"			8 / A400	7 / A400	6 / A400		
B	2'-9"	5'-0"			<varies>	<varies>	<varies>		
C	3'-4"	5'-6"			8 / A400	7 / A400	6 / A400		
YYYYY	4'-4"	5'-6"			8 / A400	7 / A400	6 / A400		

**ABBREVIATIONS**

WOOD - WOOD VENEER ON SOLID CORE WOOD DOOR  
 H.M. - HOLLOW METAL  
 PT - INTERIOR PAINT SYSTEM  
 EXIST - EXISTING  
 ALUM - ALUMINUM  
 FS - ROLLING FIRE SHUTTER  
 SCD - SOLID CORE DOOR  
 AE - AUTOMATIC ENTRY DOORS  
 WD - WOOD VENEER

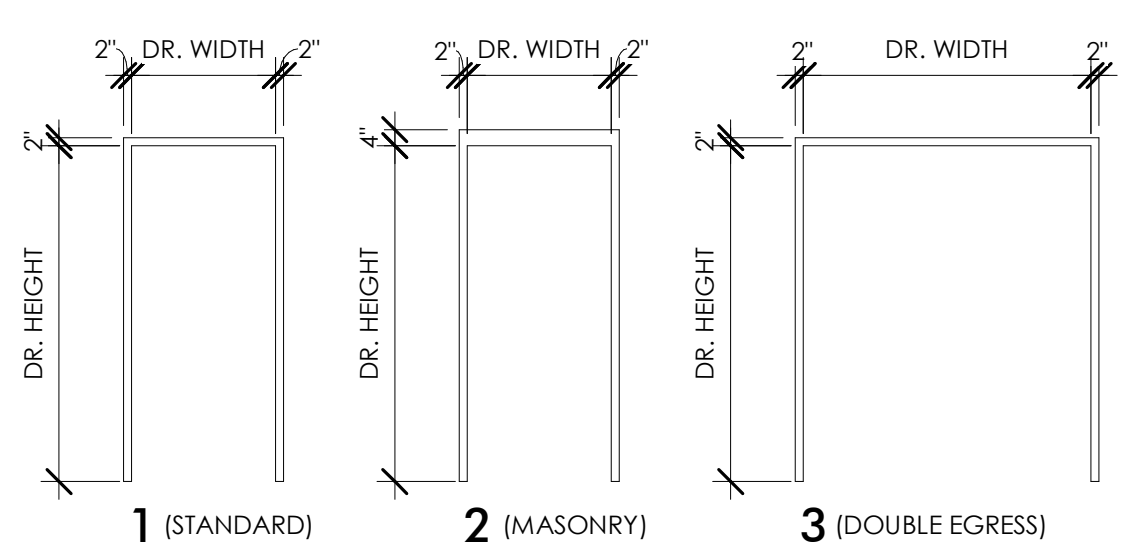
**GENERAL NOTES**

- REFER TO DOOR SCHEDULE FOR HEIGHTS, WIDTHS AND GLAZING TYPES.
- ALL HARDWARE TO BE ADA COMPLIANT LEVER HARDWARE.
- ALL EXTERIOR AND RATED DOORS ARE TO HAVE ADA COMPLIANT SILLS WITH MAX THRESHOLDS OF 1/2"



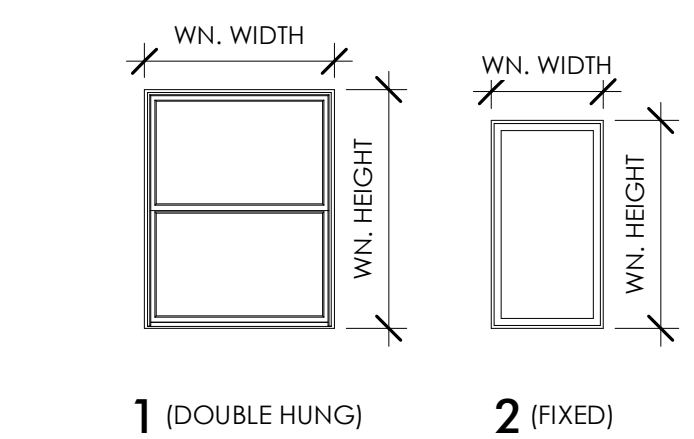
**DOOR TYPES**

NOTE: REFER TO DOOR SCHEDULE FOR HEIGHTS / WIDTHS AND GLAZING TYPE



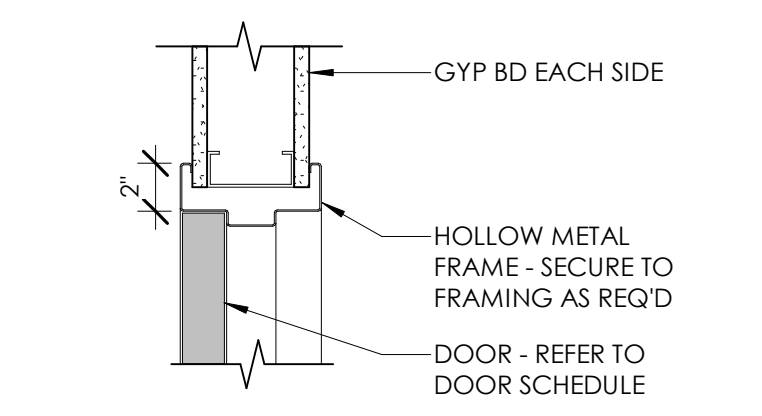
**FRAME TYPES**

NOTE: REFER TO DOOR SCHEDULE FOR HEAD, JAMB, AND SILL DETAILS

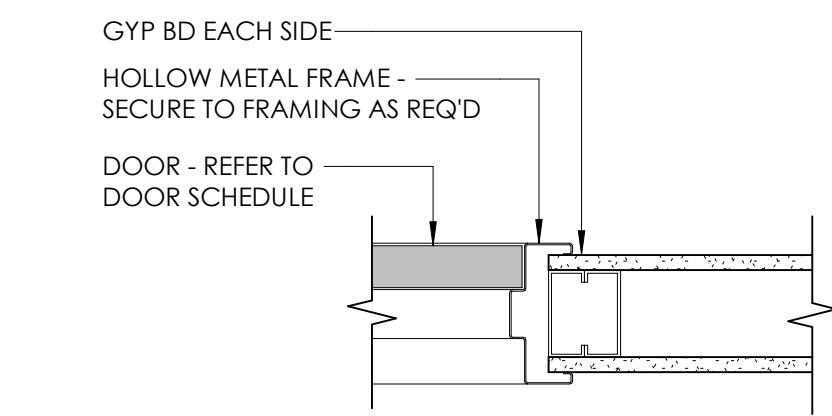


**WINDOW TYPES**

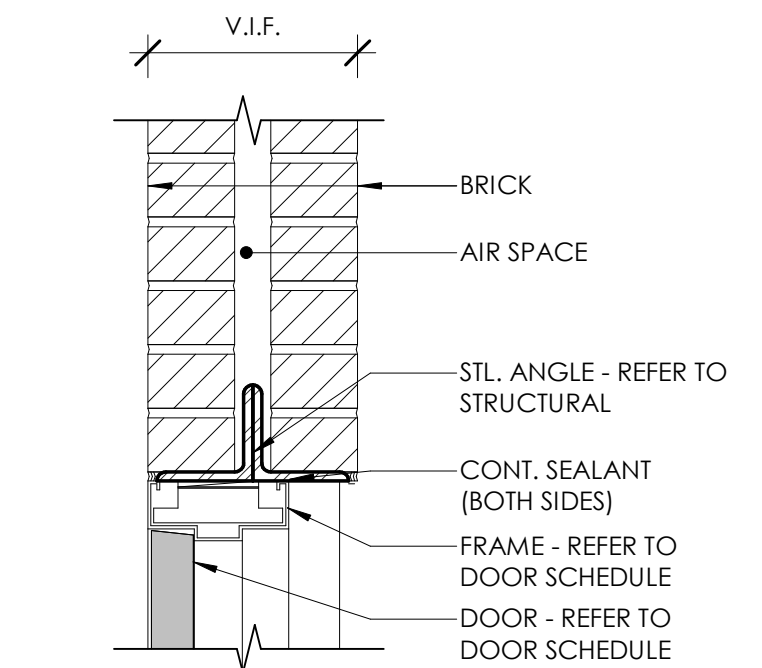
NOTE: REFER TO WINDOW SCHEDULE FOR HEIGHTS / WIDTHS AND GLAZING TYPE



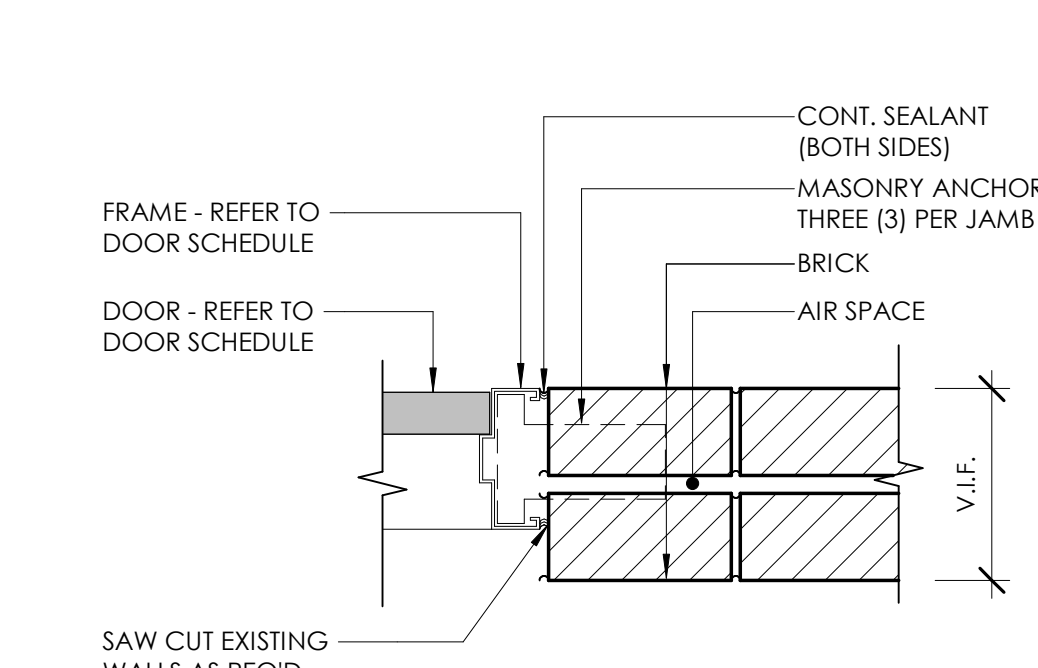
**1 HEAD DETAIL - H.M. GYP BD**  
 1 1/2" = 1'-0"



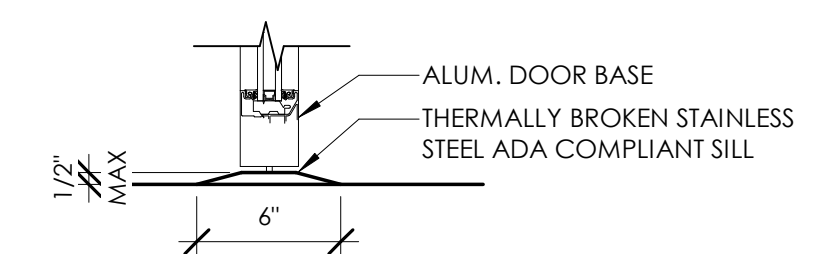
**2 JAMB DETAIL - H.M. GYP. BD.**  
 1 1/2" = 1'-0"



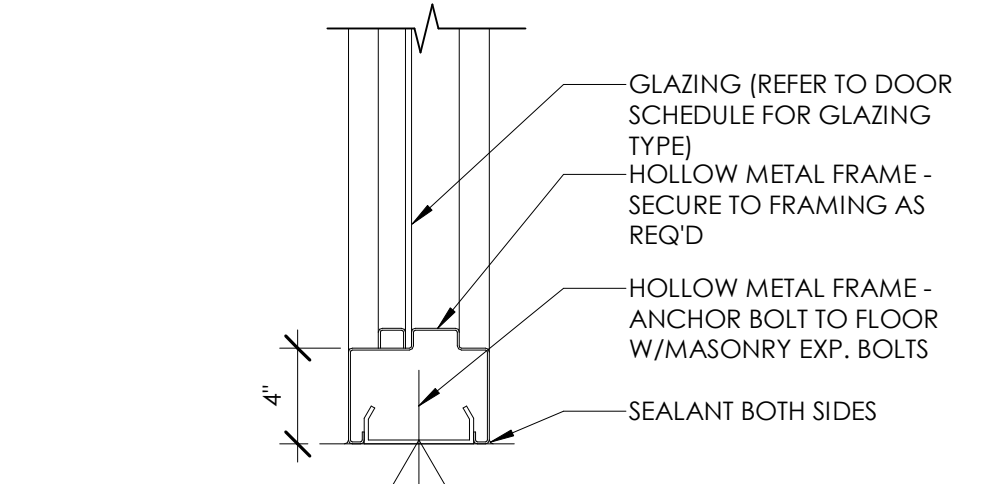
**3 HEAD DETAIL - BRICK WALL**  
 1 1/2" = 1'-0"



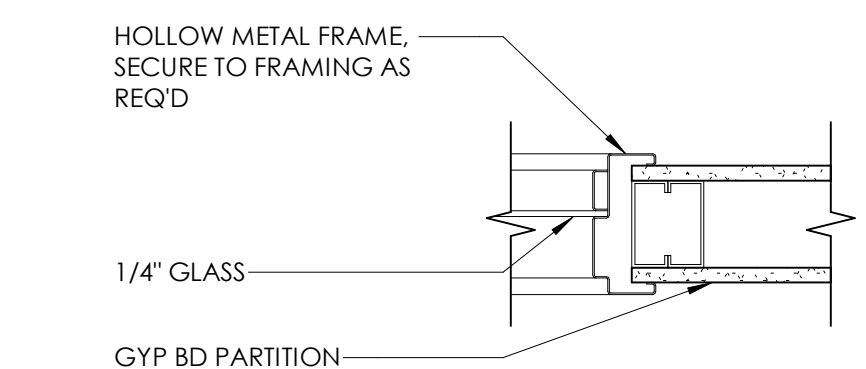
**4 JAMB DETAIL - BRICK**  
 1 1/2" = 1'-0"



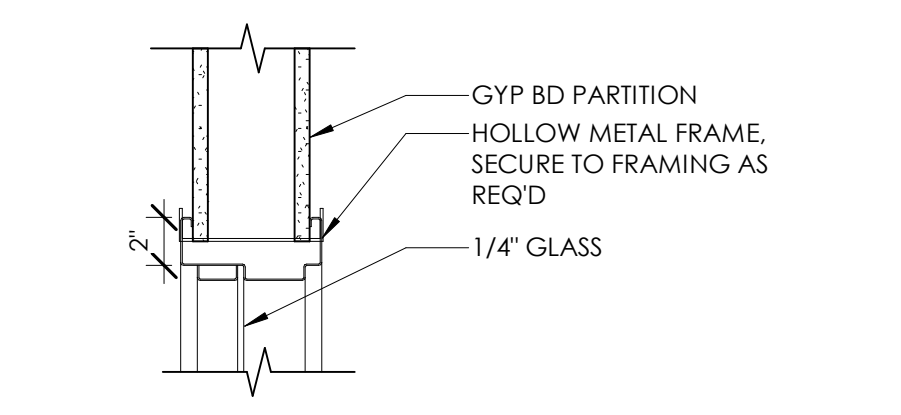
**5 SILL DETAIL - ALUM. FRAME**  
 1 1/2" = 1'-0"



**6 H MTL WINDOW SILL**  
 1 1/2" = 1'-0"



**7 H MTL WINDOW JAMB - GYP**  
 1 1/2" = 1'-0"



**8 H MTL WINDOW HEAD - GYP BD**  
 1 1/2" = 1'-0"

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PROJECT NAME  
 708 N BURDICK STREET  
 PROJECT ADDRESS  
 708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
 KYLE GULAU

ISSUE  
 CONSTRUCTION DOCUMENTS

REVISION

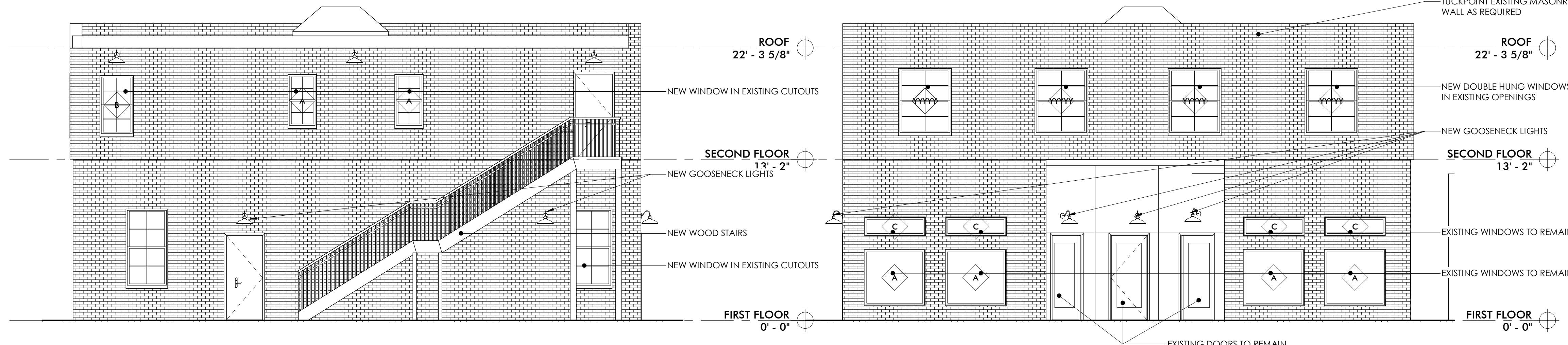
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 DATE 1/6/2024 9:52:22 PM  
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PROJECT NUMBER  
 2022.034

**DOOR & WINDOW SCHEDULE AND DETAILS**  
**A400**

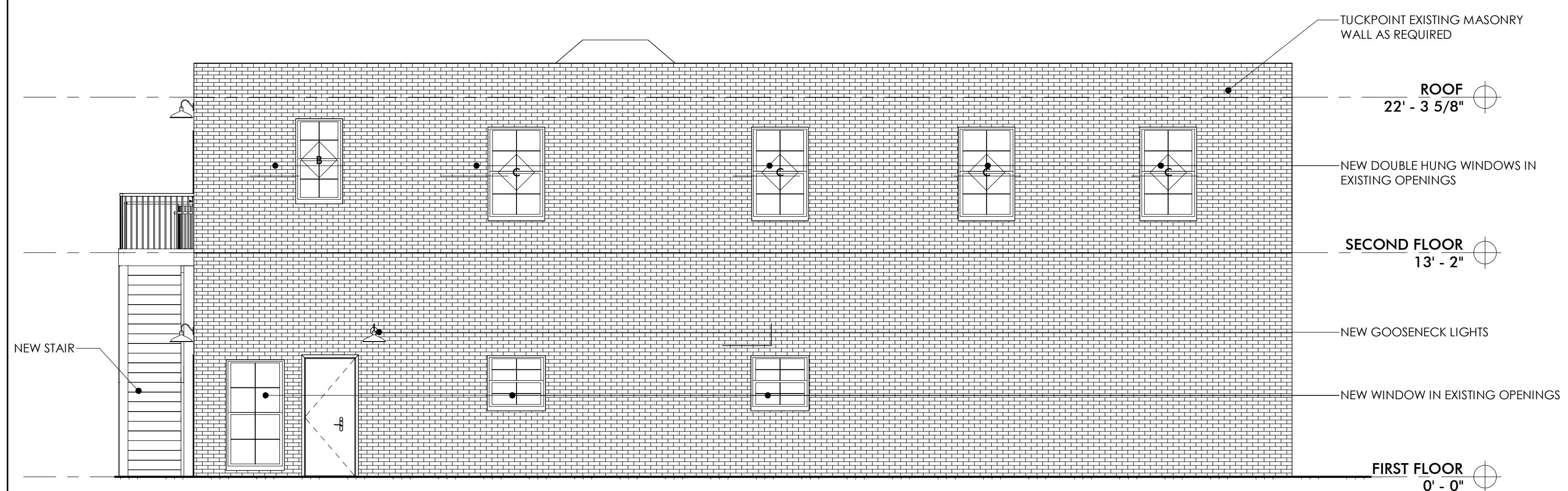
**GENERAL NOTES**

- ROOF REPAIRS/REPLACEMENT:** REMOVE AND REPLACE EXISTING ROOFING. INSPECT THE SHEATHING AND REPLACE AS REQUIRED. PROVIDE NEW MINIMUM R-30 RIGID INSULATION. PUT A NEW WHITE 60 MIL TPO ROOF OVER THE TOP OF THE INSULATION. SEE THE ROOF PLAN AND DETAILS FOR MORE INFORMATION.
- BRICK CLEANING SPECIFICATIONS:** ALL BRICK WILL BE CLEANED UTILIZING A PREWASH, ACID CLEANING WITH PROSOCCO HEAVY DUTY RESTORATION CLEANER OR APPROVED EQUAL, FOLLOWED WITH A SECOND POWER WASHING. POWER WASHING STANDARDS AS DESCRIBED IN THE SANDSTONE REPAIRS WILL BE UTILIZED.
  - REPOINTING:** ALL MORTAR JOINTS THAT HAVE ERODED GREATER THAN 1/4" PAST THEIR ORIGINAL FACE SHALL REQUIRE REPOINTING. ALL MORTAR JOINTS WITH MINOR HOLES OR VOIDS THAT CAN BE PENETRATED WITH A 1/16" DIAMETER WIRE GREATER THAN ONE HALF OF THE BLOCK THICKNESS SHALL BE REPOINTED. THE FOLLOWING 16 STEPS TO PROPER RE-POINTING SHALL BE FOLLOWED:
    - MORTAR MATCHING SHALL BE ACHIEVED VIA MATCHING PRE-MADE BISCUITS, FOLLOWED BY AN ONSITE MATCH TO BE VERIFIED BY THE OWNERS REPRESENTATIVE PRIOR TO REPOINTING.
    - MIX DESIGN SHALL BE A LIME PUTTY-BASED TYPE K MORTAR WITH MATCHING AGGREGATE TO ACHIEVE NATIONAL PARK STANDARDS OF PROPER BOND AND SAME OR LOWER COMPRESSIVE STRENGTH AS THE MATCHING MORTAR AT 365 DAYS.
    - REMOVE DETERIORATED MORTAR (A MINIMUM DEPTH OF TWO TIMES THE WIDTH OF MORTAR JOINT). ALL PROCEDURES WILL FOLLOW THE CURRENT OSHA STANDARD FOR SILICA DUST CONTROL WHEN PERFORMING THIS WORK.
    - BRUSH, VACUUM, OR WATER FLUSH TO REMOVE DEBRIS IN THE JOINT.
    - THROUGH CLOSE EXAMINATION DETERMINE THE EXTENT OF DETERIORATION IN THE JOINT AND SURROUNDING AREA.
    - REWORK THE JOINT, AS NECESSARY.
    - AIR BLAST TO REMOVE DEBRIS IN THE JOINT.
    - WATER-SOAK THE BLOCK (TO SATISFY THE POROSITY OR THIRST OF THE BRICK).
    - PRE-WET TO REDUCE THE AMOUNT OF INITIAL DEHYDRATION OF THE MORTAR THAT IS ABOUT TO BE REPLACED.
    - DELIVER MORTAR TO THE PREPARED JOINT. SEVERAL LAYERS MAY BE REQUIRED TO FILL THE JOINT FLUSH WITH THE OUTER SURFACE OF THE MASONRY.
    - STRIKE BACK (TOOLING THE JOINT TO MATCH THE EXISTING HISTORIC JOINT).
    - CUT BACK THE JOINT TO RECESS THE FINAL MORTAR SLIGHTLY FROM THE FACE OF THE MASONRY.
    - WAIT FOR THE MORTAR TO SET UNTIL IT IS READY TO BE COMPACTED.
    - DRY BRUSH COMPACT THE JOINTS TO ALLOW FOR FURTHER DEVELOPMENT OF A BOND BETWEEN OLD MORTAR AND BLOCK.
    - PRE-WET TO SATURATE THE BRICK IN PREPARATION FOR THE LAST STEP.
    - WEATHERING WASH TO MATCH THE OLD AND NEW MASONRY.

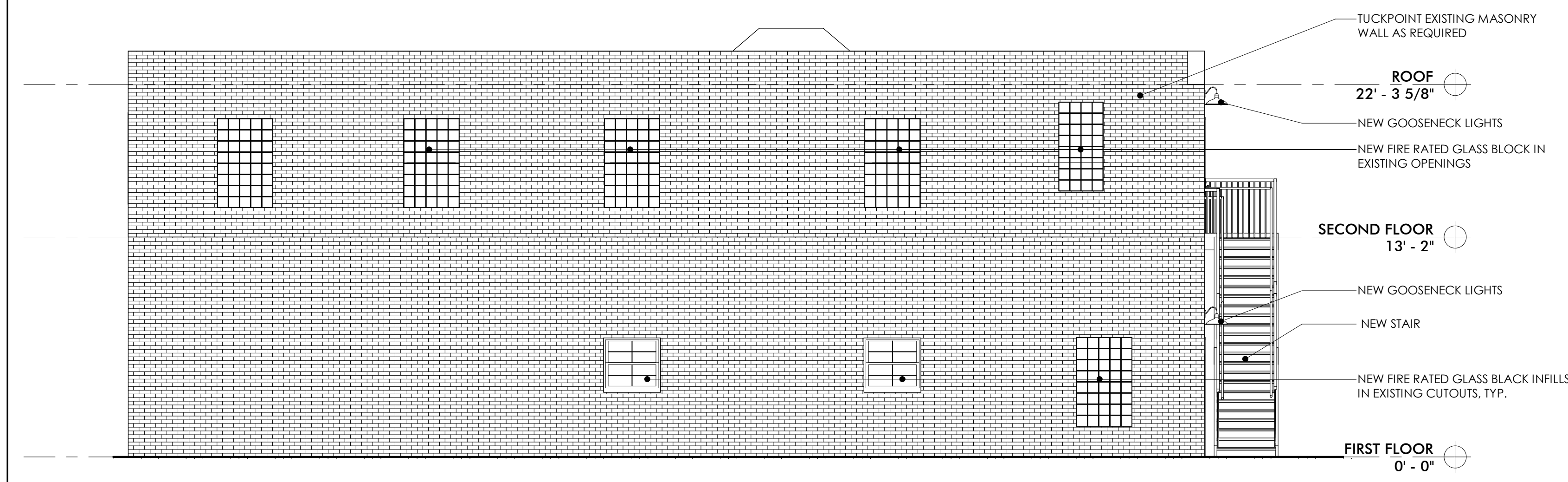


**1 NORTH ELEVATION**  
 A500 3/16" = 1'-0"

**2 SOUTH ELEVATION**  
 A500 3/16" = 1'-0"

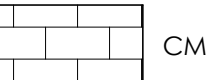
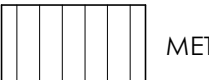
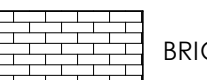
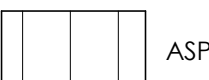

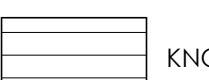
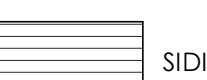


**4 WEST ELEVATION**  
 A500 3/16" = 1'-0"



**3 EAST ELEVATION**  
 A500 3/16" = 1'-0"

**EXTERIOR ELEVATION SYMBOL LEGEND**

 CMU	 METAL ROOFING
 BRICK	 ASPHLT ROOFING
 STONE	 KNOT WOOD
 SIDING / METAL SIDING	

PROJECT NAME  
708 N BURDICK STREET  
 PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
KYLE GULAU

ISSUE  
CONSTRUCTION DOCUMENTS

REVISION

DRAWN BY CMN  
 DATE 1/6/2024 9:52:24 PM  
 SCALE As indicated  
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PROJECT NUMBER  
2022.034

EXTERIOR ELEVATIONS  
**A500**

## MECHANICAL SPECIFICATIONS AND GENERAL REQUIREMENTS

- IT IS UNDERSTOOD AND AGREED BY THE INSTALLER THAT WORK HEREIN DESCRIBED SHALL BE COMPLETE IN EVERY DETAIL, EVEN THOUGH EVERY ITEM INVOLVED IS NOT PARTICULARLY MENTIONED. INSTALLER SHALL BE HELD TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE WORK INTENDED AND DESCRIBED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUCH MATERIALS SHALL INCLUDE PIPING, VALVES, TRAPS, GAUGES, CONTROLS, ETC.. THIS ALSO INCLUDES EQUIPMENT REQUIRED BY STATE AND LOCAL CODES.
- ALL WORK AND EQUIPMENT PROVIDED AND PERFORMED ON THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, ETC OF ANY AND ALL AUTHORITIES HAVING JURISDICTION INCLUDING, BUT NOT LIMITED TO: MICHIGAN MECHANICAL CODE - 2015, MICHIGAN PLUMBING CODE - 2015, MICHIGAN BUILDING CODE - 2015, MICHIGAN UNIFORM ENERGY CODE (ASHRAE 90.1-2013), THE LOCAL FIRE MARSHAL, UNDERWRITERS LABORATORIES, IRI, FM, NATIONAL ELECTRICAL CODE, LOCAL HEALTH DEPARTMENT, OSHA, MICHSHA. ANY MODIFICATIONS REQUIRED BY ANY OF THE ABOVE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. WHERE THE CONTRACT DOCUMENTS EXCEED THE CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL BE FOLLOWED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE INSTALLATION.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- JOBSITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE ON SITE A QUALIFIED FOREMAN OVERSEEING ALL ASPECTS OF THE CONSTRUCTION. THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE FOR JOBSITE SAFETY.
- ANY HOISTS, LIFTS, OR SPECIAL EQUIPMENT REQUIRED TO SAFELY COMPLETE THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- THE BID SHALL INCLUDE ALL LABOR AND MATERIALS ESSENTIAL TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM AS DESCRIBED IN THE CONTRACT DOCUMENTS. EVEN THOUGH EVERY ITEM INVOLVED IS NOT PARTICULARLY MENTIONED. SUCH MATERIALS SHALL INCLUDE PIPING, VALVES, TRAPS, GAUGES, CONTROLS, ETC.. THIS ALSO INCLUDES EQUIPMENT REQUIRED BY STATE AND LOCAL CODES. IN CASES OF DOUBT AS TO WORK INTENDED THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INFORMATION AT LEAST FIVE(5) DAYS PRIOR TO BIDDING. ONCE CONTRACT IS AWARDED ANY DISPUTES AS TO THE INTENT OF THE DESIGN SHALL BE RESOLVED AS DIRECTED BY THE ENGINEER AND NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL EQUIPMENT AND MATERIALS WITH ALL OTHER TRADES.
- CONTRACTOR SHALL NOT PROCEED WITH ANY WORK FOR WHICH ADDITIONAL COMPENSATION IS EXPECTED WITHOUT A WRITTEN CHANGE-ORDER SIGNED BY THE ENGINEER. ADDITIONAL COMPENSATION WILL NOT BE GIVEN WITHOUT A SIGNED, WRITTEN, CHANGE-ORDER. CHANGE-ORDER FORMS MAY BE REQUESTED FROM THE ENGINEER OR CONTRACTOR MAY USE THEIR OWN FORM. CHANGE-ORDER MUST INCLUDE DESCRIPTION OF CHANGE, REASON FOR CHANGE, AND COST BREAKDOWN SHOWING ITEMIZED MATERIAL COSTS, LABOR TIME AND RATE AND SEPARATELY LISTED OH&P. OH&P FOR CHANGE ORDERS SHALL NOT EXCEED 10%.
- A SET OF AS-BUILT DOCUMENTS SHALL BE KEPT ON THE JOB SITE, ACCESSIBLE TO ALL TRADES. CONTRACTOR SHALL MAINTAIN THE AS-BUILT DRAWINGS DAILY INDICATING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL MAINTAIN COMMUNICATION WITH ALL OTHER TRADES AND REVIEW AS-BUILT DOCUMENTS OF ALL TRADES ON A REGULAR BASIS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES DURING CONSTRUCTION AND FOR NOTIFYING THE ENGINEER OF ANY CHANGES THAT WILL NEED TO BE MADE AS SOON AS THEY ARE IDENTIFIED.
- ALL PRODUCTS AND MATERIALS USED SHALL BE NEW AND "BEST OF ITS KIND". PRODUCTS AND MATERIALS SHALL BE PROTECTED FROM CONSTRUCTION AND WEATHER DAMAGE. CONTRACTOR SHALL NOT INSTALL ANY COMPONENT THAT IS DAMAGED, DIRTY, OR SHOWS ANY SIGNS OF CORROSION.
- THE CONTRACTOR IS RESPONSIBLE, AT HIS OWN COST, FOR WAREHOUSING OF MATERIAL AND EQUIPMENT TO BE INSTALLED ON THIS PROJECT. COORDINATE WITH THE BUILDING OWNER AND/OR GENERAL CONTRACTOR FOR SPACE AVAILABLE ON THE JOB SITE FOR MATERIAL STORAGE.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR THE ITEMS LISTED BELOW WITHIN 2 WEEKS OF AWARD OF CONTRACT AND A MINIMUM OF 2 WEEKS PRIOR TO INSTALLATION. CONTRACTOR SHALL NOT ORDER EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN PROCESSED BY THE ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO BEING SUBMITTED TO THE ENGINEER. INCLUSION IN SHOP DRAWINGS DOES NOT AUTHORIZE A DEVIATION FROM THE REQUIREMENTS OF THE SPECIFICATIONS. ALL SHOP DRAWINGS SHALL HAVE LISTED ON THE COVER SHEET ANY AND ALL PRODUCTS OR MATERIALS THAT DEVIATE FROM SPECIFICATIONS. DETERMINATION OF "EQUAL" SHALL BE MADE BY ENGINEER. AT A MINIMUM SHOP DRAWINGS SHALL BE SUBMITTED FOR: ALL AIR HANDLING EQUIPMENT, DUCT SEALANTS, MOTORIZED DAMPERS, GRILLES / LOUVERS / DIFFUSERS.
- AT PROJECT COMPLETION PROVIDE TO THE BUILDING OWNER THREE(3) BOUND SETS TO INCLUDE ALL O&M MANUALS FOR EQUIPMENT INSTALLED, BALANCE REPORTS AND COPIES OF ALL MANUFACTURER WARRANTIES. CONTRACTOR SHALL COMPLETE ANY WARRANTY REGISTRATION CARDS NECESSARY FOR MANUFACTURER WARRANTIES.
- CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY FOR ALL WORK PERFORMED. THIS INSTALLERS WARRANTY SHALL COVER ALL MATERIAL AND EQUIPMENT NOT COVERED BY A MANUFACTURER WARRANTY AND ALL LABOR. THIS WARRANTY SHALL ALSO COVER INSTALLER ERROR OR DAMAGE.
- ALL WORK ON THIS PROJECT SHALL BE EXECUTED IN A GOOD, WORKMAN LIKE MANNER USING MECHANICS SKILLED IN THEIR RESPECTIVE TRADES. NO ALLOWANCE WILL BE GIVEN FOR POOR WORKMANSHIP. ANY INSTALLATION THAT IS OF INSUFFICIENT QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- WORK SITE IS TO BE LEFT IN A NEAT AND ORDERLY CONDITION AT THE END OF EACH WORK SHIFT.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY OWNER FURNISHED EQUIPMENT. CONTRACTOR SHALL RECEIVE ANY OWNER FURNISHED ITEMS WHEN DELIVERED TO THE JOB SITE AND SHALL BE RESPONSIBLE FOR THE ITEMS ONCE RECEIVED.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SLAB-TO-SLAB PARTITIONS, FIRE RATED PARTITIONS AND FIRE RATED FLOORS. ALL PENETRATION OF SLAB-TO-SLAB PARTITIONS SHALL BE SEALED AIR TIGHT. ALL PENETRATIONS OF FIRE RATED PARTITIONS OR FLOORS SHALL BE PROVIDED WITH A FIRE RATED DAMPER AND ACCESS DOOR. DAMPER SHALL HAVE A RATING APPROPRIATE FOR THE ASSEMBLY PENETRATED.
- PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE SEALED USING CODE APPROVED, LABORATORY TESTED AND LABELED SEALANTS FOR A FIRE RESISTANCE RATING EQUAL TO OR GREATER THAN THE ASSEMBLY PENETRATED.
- CONTRACTOR SHALL VERIFY LOCATION OF CEILING MOUNTED DIFFUSERS AND GRILLES WITH ARCHITECTURAL CEILING PLAN PRIOR TO INSTALLATION.
- ALL DUCT SIZES SHOWN ON THE DRAWINGS ARE TO ESTABLISH TOTAL DUCT AREA REQUIRED. IF DUCT SIZES NEED TO BE CHANGED OR DUCTS BE REROUTED TO INSTALL THE DUCTS THROUGH JOISTS, ABOVE CEILINGS, BELOW STEEL, ETC., CHANGES SHALL BE DONE AT NO EXTRA COST TO THE OWNER. THE CONTRACTOR SHALL CHECK WITH THE ARCHITECT/ENGINEER BEFORE CHANGING ANY SIZES.
- NEW DUCTWORK, PIPING, AND CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE. CONTRACTOR SHALL COORDINATE DUCTWORK, PIPING AND CONDUITS WITH LIGHTING FIXTURES, CEILING CONSTRUCTION, STRUCTURE AIR DISTRIBUTION EQUIPMENT, ETC., AND SHALL BE OFF-SET AS REQUIRED.
- ALL NEW RECTANGULAR DUCTWORK SHALL BE 1" W.G. CONSTRUCTION OF LOCK FORMING GALVANIZED STEEL IN ACCORDANCE WITH FIGURES 3-1 THRU 3-56 AND TABLE 3-2 OF THE SMACNA GUIDELINES ("DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATION AND AIR CONDITIONING SYSTEMS" MOST RECENT EDITION.) SNAP LOCK LONGITUDINAL SEAMS AND DRAWBAND JOINT CONNECTIONS ARE NOT ACCEPTABLE. (LOW PRESSURE ROUND RUN-OUT DUCTS MAY BE SNAP LOCK LONGITUDINAL SEAM WITH SCREW/RIVET JOINT CONNECTIONS).
- DUCTWORK SHALL BE HUNG AS HIGH AS POSSIBLE FROM BUILDING STRUCTURE, CONDUITS, PIPES, CEILINGS OR ANY OTHER ITEMS SHALL NOT BE HUNG FROM DUCTWORK. PROVIDE ALL FITTINGS ELBOWS, DAMPERS, OFF-SETS, ETC. FOR COMPLETE DUCTWORK INSTALLATION. ALL ELBOWS SHALL BE GORED RADIUS ELBOWS (PLEATED NOT ALLOWED) UNLESS SQUARE ELBOWS ARE SHOWN ON PLANS. ALL SQUARE ELBOWS SHALL HAVE TURNING VANES.
- VOLUME DAMPERS SHALL BE INSTALLED AS SHOWN ON PLANS, AND AT ALL BRANCH TAKE-OFFS.
- ALL DUCTWORK SHALL BE SEALED USING IRON GRIP (NO SUBSTITUTIONS) AND SHALL MEET THE MICHIGAN UNIFORM ENERGY CODE (ASHRAE 90.1-2007) DUCT SEAL LEVEL "A" (TABLE 6.4.4.2A). SEAL LEVEL "A" SHALL BE USED FOR ALL DUCT TYPES AND PRESSURE CLASSES.
- ALL DUCTWORK SHALL BE INSULATED PER ASHRAE 90.1-2013 TABLE 6.8.2B. FOR CONCEALED DUCTWORK, AT A MINIMUM PROVIDE 1 1/2" THICK FLEXIBLE FIBERGLASS BLANKET WITH FIRE/RATE SPREAD RATING OF 25/50 OR BETTER, SECURED TO DUCTWORK WITH BENJAMIN FOSTER (NO. 85 20) ADHESIVE AND PUSH PINS EVERY 12" ON-CENTER. FOR DUCTWORK IN MECHANICAL ROOMS USE RIGID, FOIL-FACED, FIBERGLASS INSULATION, 1" THICK, 2LB. EXTERIOR DUCTWORK SHALL BE INSULATED AND HAVE A PVC WRAP.
- USE PVC COATED GALVANIZED STEEL FOR UNDERGROUND DUCTS AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. REPAIR DAMAGE TO PVC COATINGS WITH MANUFACTURER'S RECOMMENDED MATERIALS. DUCTS IN CONCRETE SLABS SHALL BE ROUND AND ENCASED IN AT LEAST 2" OF CONCRETE. USE A VIBRATOR TO FILL VOIDS IN CONCRETE. SLOPE ALL UNDERGROUND DUCT BACK TOWARD UNIT. PROVIDE DUCT ACCESS DOOR.
- FLEXIBLE DUCT CONNECTIONS SHALL BE MADE BY APPLYING DUCT SEALER TO INSIDE OF FLEXIBLE DUCT AND OUTSIDE OF HARD DUCT COLLAR. ADHESIVE SHALL BE CHEMICALLY COMPATIBLE WITH MATERIALS IN CONTACT WITH IT. THE ENDS OF DUCTS SHALL BE TRIMMED SQUARELY PRIOR TO INSTALLATION. COLLARS AND SLEEVES SHALL BE INSERTED INTO FLEXIBLE DUCT A MINIMUM OF 1" BEFORE FASTENING. SLIDE FLEX DUCT OVER COLLAR AND TAPE WITH THREE WRAPS OF DUCT TAPE AROUND JOINT AND SEAL WITH STAINLESS STEEL CLAMPS OVER OUTSIDE OF TAPE.
  - HIGH PRESSURE: INSTALL AT INLET CONNECTIONS OF TERMINAL UNITS. MAXIMUM DEVELOPED LENGTH OF FLEX DUCT SHALL BE 3'-0". USE METAL DUCTS AND FITTINGS TO REACH WITHIN 3'-0" OF TERMINAL UNIT.
  - LOW PRESSURE: INSTALL WHERE INDICATED ON DRAWINGS AND BE A MAXIMUM OF 5'-0" IN LENGTH. USE METAL DUCT AND FITTINGS TO REACH WITHIN 5'-0" OF DIFFUSER.
- FLEXIBLE DUCTS SHALL BE USED FOR ALIGNMENT PURPOSES ONLY. MAXIMUM OFFSET 1" PER FOOT LENGTH. NO ELBOWS USING FLEXIBLE DUCTS WILL BE ALLOWED. DUCTS SHOULD NOT BE COMPRESSED. THE SPECIFICATIONS HEREIN, SHALL NOT SUPERSEDE THE APPLICATION CONTINGENCIES DICTATED BY THE FLEXIBLE DUCT MANUFACTURER IF THOSE ARE MORE STRINGENT.
- ALL PIPING TO BE INSTALLED PERPENDICULAR TO STRUCTURE LINES UNLESS OTHERWISE NOTED ON DRAWINGS. ALL PIPING TO BE NEATLY SPACED WITH RISERS AND DROPS PLUMB AND TRUE. MINIMUM SPACING SHALL HAVE 1" CLEAR BETWEEN PIPING (INCLUDING FITTINGS) AFTER INSULATION. PIPING SHALL NOT OBSTRUCT ACCESS TO EQUIPMENT, VALVES, FILTERS, ETC.
- ALL PIPING TO BE INSTALLED CONCEALED EXCEPT WHERE NOTED ON PLANS. DO NOT INSTALL PIPING BELOW SLABS EXCEPT WHERE NOTED ON PLANS. DO NOT CONCEAL PIPING UNTIL INSPECTED AND TESTED. PNEUMATIC TESTING OF ALL PIPING IS REQUIRED.
- ALL PIPING THAT PENETRATES CONCRETE SLABS OR MASONRY WALLS SHALL BE PROVIDED WITH A PIPE SLEEVE WITH AN I.D. MINIMUM 1" LARGER THAN O.D. OF PIPE. SLEEVES SHALL PROTRUDE 2" AFF AND FLUSH WITH WALL SURFACE. IF PIPE SLEEVES ARE NOT POURED-IN-PLACE, GROUT SECURELY TO WALL OR SLAB. SEAL SPACE BETWEEN PIPE AND SLEEVE. USE FIRE RATED SEALANT WHERE REQUIRED.
- PROVIDE ALL PIPING OFF-SETS AS REQUIRED FOR COORDINATION WITH STRUCTURE, DUCTWORK, CONDUITS, ETC.
- INSTALL PIPE ANCHORS WHERE REQUIRED OR AS SHOWN ON PLANS. INSTALL PIPE ROLLERS WHERE REQUIRED OR SHOWN ON PLANS. INSTALL GUIDES AT ALL EXPANSION JOINTS, EXPANSION LOOPS OR WHERE REQUIRED.
- FLEXIBLE CONNECTORS, EXPANSION AND VIBRATION CONTROL DEVICES AND FITTING SHALL BE OF AN APPROVED TYPE.
- ALL PIPING, VALVES AND HYDRONIC EQUIPMENT SHALL BE LABELED WITH ENGRAVED TAGS OR PLACARDS WITH LETTERING ONE INCH(1") TALL (MINIMUM).
- CLOSE NIPPLES SHALL NOT BE PERMITTED. USE ONLY SHOULDER NIPPLES.
- REDUCERS FOR PUMPS OR CONTROL VALVES SHALL BE INSTALLED ABUTTING THE INLET/OUTLET OF THE VALVE OR PUMP.
- USE ECCENTRIC REDUCING FITTINGS OR COUPLINGS WHERE REQUIRED TO PREVENT THE POCKETING OF LIQUIDS.
- PROVIDE UNION OR FLANGE AT PIPE CONNECTIONS TO COILS, EQUIPMENT, ETC. AND AT LOCATIONS SHOWN ON PLANS OR IN DETAILS. PROVIDE UNION OR FLANGE BETWEEN EQUIPMENT AND CONTROL VALVES.
- PROVIDE PEET'S PLUGS (PT PLUGS) AT THE INLET AND OUTLET OF ALL HYDRONIC EQUIPMENT WHERE THERMOMETERS ARE NOT SHOWN.
- PROVIDE DIELECTRIC UNIONS BETWEEN FERROUS AND NON FERROUS PIPE AND FITTINGS.
- PIPE INSULATION SHALL BE PER ASHRAE 90.1-2013. MINIMUM 1" FIBERGLASS INSULATION (2LB. FIRE/SMOKE 25/50) ON ALL HYDRONIC PIPING. STEAM HEATING PIPING SYSTEM SYSTEMS WITH 1 1/2" THICK FIBERGLASS INSULATION (1 1/2" DIAMETER AND UNDER) OR 2" THICK (OVER 1 1/2" DIAMETER). 251°-350° FLUID TEMPERATURE: INSULATE STEAM HEATING PIPING SYSTEM SYSTEMS WITH 2 1/2" THICK FIBERGLASS INSULATION (1 1/2" DIAMETER AND UNDER) OR 3" THICK (OVER 1 1/2" DIAMETER). 140°-200° FLUID TEMPERATURE: INSULATE CONDENSATE HEATING PIPING SYSTEMS WITH 1" THICK FIBERGLASS INSULATION (4" DIAMETER AND UNDER). 201°-250° FLUID TEMPERATURE: INSULATE CONDENSATE HEATING PIPING SYSTEM WITH 1 1/2" THICK FIBERGLASS INSULATION (1 1/2" DIAMETER AND UNDER) OR 2" THICK (OVER 1 1/2" DIAMETER).
- THERMOSTATS SHALL BE INSTALLED AS SHOWN ON PLANS. TYPICAL HEIGHT FOR MOUNTING SHALL BE 48" AFF TO BOTTOM OF T-STAT. UNLESS OTHERWISE NOTED. DO NOT INSTALL T-STAT WITHIN TWO(2) FEET OF DIMMING LIGHT SWITCH. INDICATED SHALL BE MEASURED AND BALANCED TO WITHIN 10% OF THE FLOW VALUES INDICATED ON THE DRAWINGS. FAN RPMs, AND VOLUME DAMPERS SHALL BE ADJUSTED AS REQUIRED TO ACHIEVE FLOW BALANCE. NEBB OR AABC CERTIFIED BALANCE REPORTS SHALL BE SUBMITTED TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. THE COST OF THE BALANCING SHALL BE INCLUDED IN THE MECHANICAL CONTRACTOR BID.
- ALL AUTOMATIC TEMPERATURE CONTROLS ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL NOT CUT, DRILL OR POWDER NAIL INTO ANY EXISTING OR NEW STRUCTURAL MEMBER OR ASSEMBLY WITHOUT PRIOR WRITTEN AUTHORIZATION FROM A LICENSED STRUCTURAL ENGINEER AND THE BUILDING OWNER. THIS INCLUDES CORE DRILLING ANY CONCRETE WALL OR FLOOR SLAB.
- ALL MECHANICAL EQUIPMENT SHALL BE HUNG OR SUPPORTED WITH VIBRATION ISOLATING HANGERS OR PADS. NO VIBRATION SHALL BE TRANSMITTED TO THE STRUCTURE.
- COMBUSTION AIR INTAKE AND EXHAUST FLUES SHALL HAVE 10'-0" HORIZONTAL OR 3'-0" VERTICAL SEPARATION.
- PROVIDE UL LISTED FIRE DAMPERS AT PENETRATIONS OF FIRE RATED WALLS AND CEILINGS.
- A MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL PROVIDE START-UP SUPERVISION AND TRAINING OF OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT.
- GAS PIPING SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF NFPA 54 - NATIONAL FUEL GAS CODE AND INTERNATIONAL FUEL GAS CODE.
- GAS PIPING ABOVE GRADE AND OUTSIDE THE BUILDING GAS PIPING IS TO BE PAINTED BLACK.
- COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.

## MECHANICAL EQUIPMENT

- THE BASEMENT IS TO BE TEMPERED BY THE OTHER SPACES, THERE IS NO PROPOSED MECHANICAL IN THE BASEMENT
- THE FIRST FLOOR COMMERCIAL BUSINESS USE IS TO BE HEATED AND COOLED WITH A FURNANCE AND A/C UNIT. THE A/C UNIT IS TO BE PLACED ON THE EXTERIOR OF THE PROPERTY
- ALL RESIDENTIAL UNITS ARE TO BE HEATED AND COOLED WITH MINI SPLIT UNITS. THE FIRST FLOOR UNITS ARE TO HAVE MINI SPLIT CONDENSORS LOCATED OUTSIDE THE UNIT ON GRADE. THE SECOND FLOOR UNITS ARE TO BE MOUNTED ON THE ROOF.



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PROJECT NAME  
708 N BURDICK STREET  
PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI  
CLIENT  
KYLE GULAU

ISSUE  
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MECHANICAL SPECIFICATION

M100

**GENERAL MECHANICAL NOTES**

1. INSTALL ALL DUCTWORK PER SMACNA STANDARDS. USING METAL DUCT ADEQUATELY SUPPORTED TO AVOID DEFLECTION IN DUCT. WRAP ALL SUPPLY DUCTWORK WITH 1 1/2" 3/4 P.C.F. DENSITY FIBERGLASS INSULATION WITH VAPOR BARRIER. TAPE & SEAL ALL SEAMS, CUT-OUTS, & PENETRATIONS. INSULATE TOPS & NECKS OF ALL DIFFUSERS AND REGISTERS. PROVIDE EXPOSED SPIRAL UNINSULATED DUCT IN ALL CONDITIONED SPACES.
2. TEST AND BALANCE AIR DISTRIBUTION SYSTEM, PROVIDE BALANCE REPORT TO OWNER FOR REVIEW AT PROJECT COMPLETION.
3. **ALL DUCTS ARE TO BE RAN EXPOSED, UNLESS NOTED OTHERWISE**
4. PROVIDE ALL NECESSARY DUCT FITTINGS AND TRANSITIONS FOR A COMPLETE SYSTEM.
5. INSTALL DIFFUSERS WITH AIR TIGHT CONNECTIONS.
6. FIELD VERIFY CONDITIONS OF EXHAUST FANS, MODIFY OR CHANGE AS NECESSARY TO PROVIDE REQUIRED CFMS.
7. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND LAWS.
8. ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
9. ALL WORK SHALL BE TESTED, BALANCED, AND GUARANTEED. PROVIDE REPORT TO ARCHITECT AND OWNER FOR THEIR RECORDS.
10. ANY MECHANICAL UNITS OR SYSTEMS SHOWN ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE FITTINGS, OFFSETS, ETC. AS NECESSARY TO PROVIDE COMPLETE SYSTEMS.
11. FINAL LOCATION OF ALL CEILING FEATURES TO BE COORDINATED WITH ALL TRADES.
12. MECHANICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
13. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.
14. ALL WORK AND MATERIALS SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM THE PROJECT COMPLETION.
15. ANY MODEL NUMBERS OR MANUFACTURERS LISTED THROUGHOUT THE DRAWINGS ARE A BASIS OF DESIGN. THE CONTRACTOR MAY AT HIS OPTION PROVIDE AN "OR EQUAL" MANUFACTURER OR PRODUCT. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL COST ADDITIONS REQUIRED TO THE SYSTEM SHOULD AN "OR EQUAL" MANUFACTURER BE SELECTED.
16. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. RUN IN BULKHEADS OR EMBEDDED IN WALL WHERE APPLICABLE. PAINT TO MATCH WHEN EXPOSED.
17. PROVIDE A GAS SHUTOFF VALVE. COMPLETE WITH DIRT LEG AT EACH PIECE OF GAS FIELD EQUIPMENT.
18. THE HEATING AND COOLING SYSTEMS ARE TO BE A DESIGN BUILD SYSTEM. IT IS TO BE DESIGNED, PROVIDED AND INSTALLED BY A LICENSED MECHANICAL CONTRACTOR OR ENGINEER IN THE STATE OF MICHIGAN. THE SYSTEM IS TO BE DESIGNED TO ALL APPLICABLE MICHIGAN MECHANICAL CODES IN FORCE AT THE TIME OF INSTALLATION AND INSPECTION. ANY MECHANICAL SHOWN ON THE PLANS ARE FOR REFERENCE ONLY AND HAVE BEEN PROVIDED BY A LICENSED CONTRACTOR. THE ARCHITECT DOES NOT TAKE ANY LIABILITY FOR THESE SYSTEMS.
19. A CFM SCHEDULE IS TO BE PROVIDED WITH A LAYOUT OF DUCTWORK WHEN APPLYING FOR MECHANICAL PERMIT.
20. CARBON FILTERS IN MICROWAVE LOCATED ABOVE EACH RESIDENTIAL RANGE

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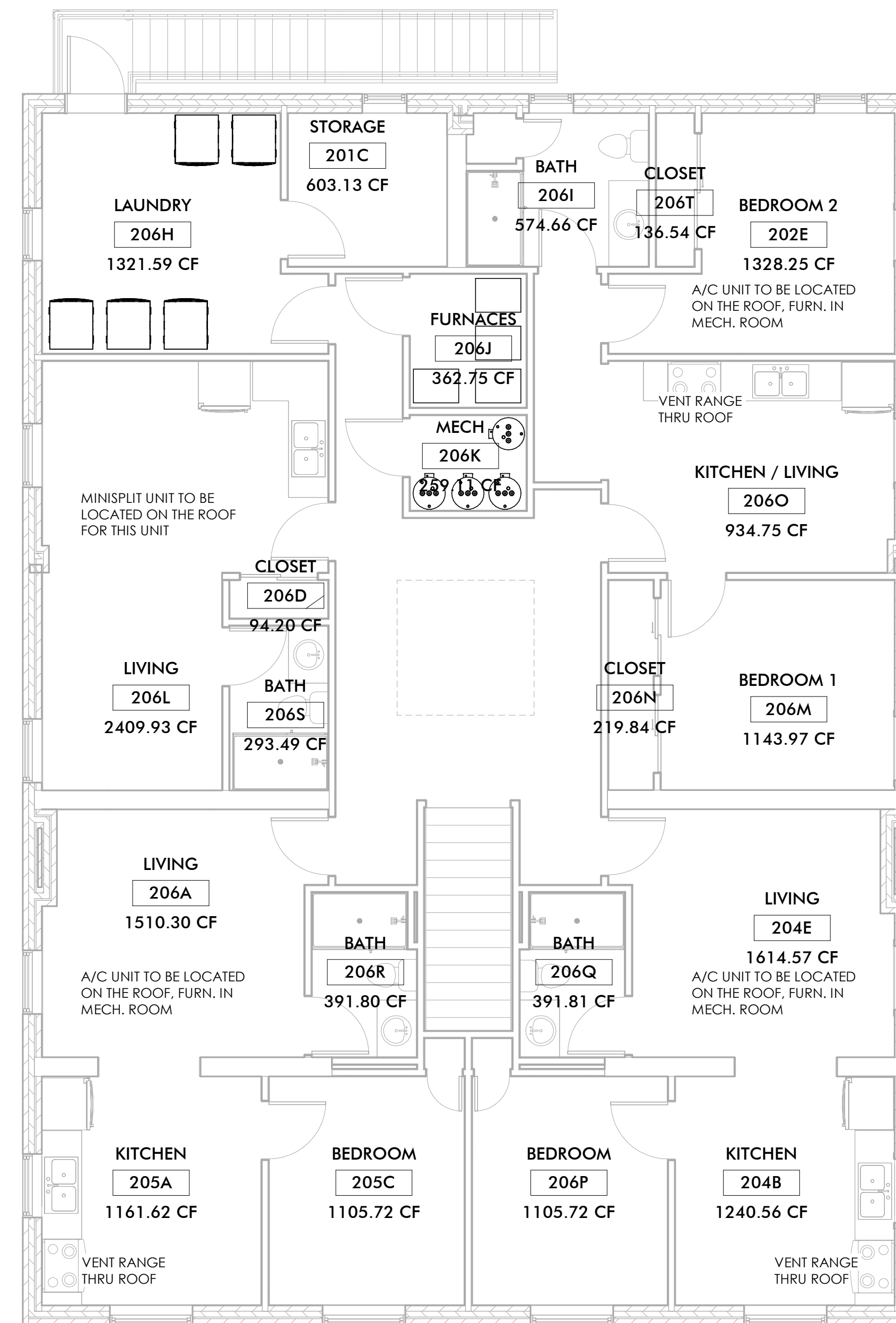
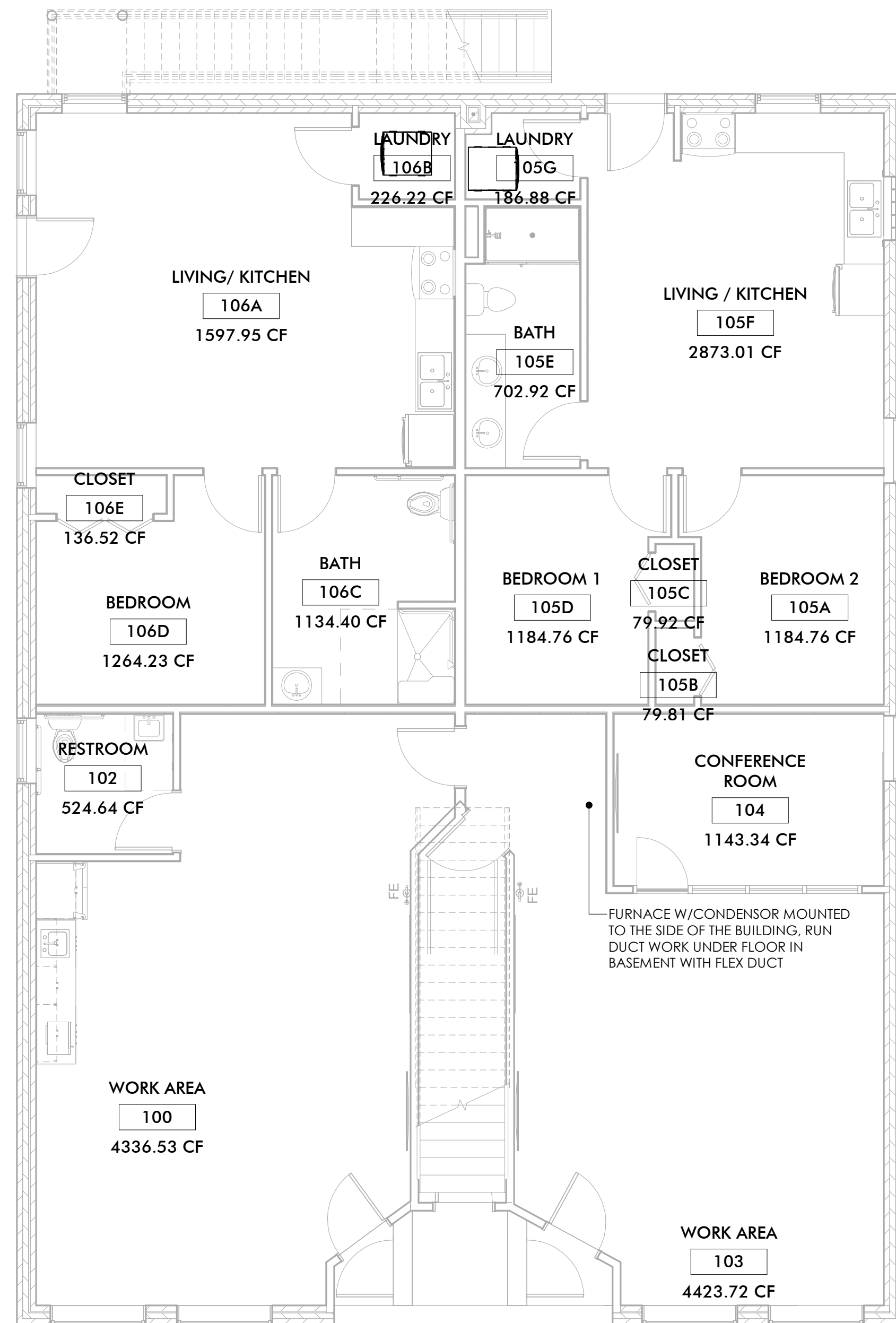
REVISION

DRAWN BY CMN  
 DATE 1/6/2024 9:52:25 PM  
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MECHANICAL PLAN

**M101**





## ELECTRICAL SPECIFICATIONS

- PROVIDE COMPLETE AND ADEQUATE TEMPORARY POWER AND LIGHTS DURING CONSTRUCTION USING APPROVED LAMPHOLDERS AND GFCI CIRCUITING. MAINTAIN ALL LAMPS AS REQUIRED. REMOVE TEMPORARY AT PROJECT COMPLETION.
- ELECTRICAL SERVICE COORDINATION WITH THE LOCAL UTILITY COMPANY IS TO BE BY THE ELECTRICAL CONTRACTOR. THIS INCLUDES, PERMITS, LOAD CALCULATION INFORMATION, RACEWAY, TRANSFORMER AND METER LOCATIONS AND REQUIREMENTS.
- CUTTING AND PATCHING FOR ELECTRICAL ITEMS BY ELECTRICAL CONTRACTOR.
- TRENCHING UNDER PAVED AREAS TO BE BACKFILLED WITH SAND AND COMPACTED.
- ALL WIRING TO BE COPPER. ALL WIRING ABOVE 50 VOLTS TO BE IN CONDUIT UNLESS NOTED OTHERWISE. PROPER WIRE TYPE AND SIZE AND CONDUIT SIZE IS REQUIRED FOR BRANCH CIRCUITS, EMT CONDUIT.
- ALL BRANCH CIRCUITS, FEEDERS AND HOMERUNS TO BE IN CONDUIT. LOCATE ABOVE CEILINGS WHEREVER POSSIBLE. MAKE SURE THAT EXPOSED CABLE IS RATED FOR THE ENVIRONMENT THAT IT IS IN.
- PROVIDE UPDATED TYPEWRITTEN DIRECTORIES ON ALL PANELS. LABEL ALL DISCONNECTS AND PANELS.
- ANY ELECTRICAL EQUIPMENT THAT GETS MOUNTED TO THE FLOOR OR ON GRADE OUTSIDE, INCLUDING BUT NOT LIMITED TO: UTILITY TRANSFORMERS, ARE TO BE INSTALLED ON A 4" THICK CONCRETE HOUSEKEEPING PAD.
- OUTDOOR PADS, PROVIDE PROPER SLOPE FOR DRAINAGE.
- EXPOSED CONDUIT TO RUN PARALLEL WITH STRUCTURE AND SECURELY ATTACHED TO BUILDING STRUCTURE.
- ELECTRICAL CONTRACTOR TO PROVIDE SUBMITTALS PRIOR TO ORDERING EQUIPMENT FOR LIGHTING, SWITCHGEAR, SPECIAL EQUIPMENT, RECEPETS, LIGHTING CONTROLS, ETC.
- UNLESS NOTED OTHERWISE, ALL DEVICE ELEVATIONS REFER TO CENTER OF OUTLET BOX. ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET LOCATIONS WITH OTHER TRADES. MINIMUM OF 18" ABOVE FINISHED FLOOR TO MEET ADA BARRIER FREE REQUIREMENTS.
- SHARING NEUTRALS BETWEEN CIRCUITS IS NOT PERMITTED.
- LOW VOLTAGE TEMPERATURE CONTROL BY OTHERS.
- PROVIDE GFI ELECTRICAL CONNECTION TO ALL DRINKING FOUNTAINS.
- REFER TO MECHANICAL DRAWINGS FOR ELECTRICAL DATA PERTAINING TO ALL MECHANICAL EQUIPMENT. VERIFY ACTUAL REQUIREMENTS WITH EQUIPMENT ORDERED AND MAKE ADJUSTMENTS ACCORDINGLY. LOCATIONS SHOWN ARE APPROXIMATE. FIELD VERIFY.
- ELECTRICAL CONTRACTOR SHALL REFER TO ALL MECHANICAL DIVISION SPECIFICATIONS, HVAC PLANS AND PLUMBING PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS.
- PROVIDE A DUCT DETECTOR FOR THE RETURN AND SUPPLY OF AIR HANDLING UNITS. CONNECT TO SHUT DOWN THE UNIT UPON ALARM. INSTALLATION MUST COMPLY WITH N.F.P.A. -90A IF >=2,500 SCFM.
- FIRE ALARM SYSTEM TO BE INSTALLED BY QUALIFIED INSTALLER. ALL NECESSARY CERTIFICATIONS TO BE TAKEN CARE OF BY ELECTRICAL CONTRACTOR. E.C. TO COORDINATE LOCATIONS OF ALL FIRE ALARM DEVICES, WITH OWNER AND OTHER TRADES, PRIOR TO ROUGH-IN. DEVICES TO BE LOCATED AND MEET NFPA 72 REQUIREMENTS.
- PROVIDE A CONNECTION FOR ALL EQUIPMENT IN KITCHEN AND BREWERY. COORDINATE WITH SUPPLIERS.
- ALL EMERGENCY SYSTEM WIRING SHALL BE IN A SEPARATE RACEWAY IN ACCORDANCE WITH ARTICLE 700 OF N.E.C.
- WIRING IN AREA SEPARATION WALLS TO COMPLY WITH ARTICLE 300-22 OF THE N.E.C.
- PROVIDE FIRESTOPPING AT ALL REQUIRED PENETRATIONS.
- BACK-TO-BACK OUTLETS CANNOT BE IN THE SAME STUD CAVITY IN RATED WALLS. 8" MINIMUM SPACING REQUIRED.
- SLEEVE ELECTRICAL PENETRATIONS FROM FERROUS SLEEVES AND ALL AREA SEPARATION WALLS.
- AN ELECTRICAL PERMIT SHALL BE ACQUIRED BY A STATE LICENSED ELECTRICAL CONTRACTOR.
- PROVIDE GROUNDING AS PER N.E.C. SECTION 250.
- ALL ELECTRICAL WORK IS SUBJECT TO FIELD REVIEW BY THE ELECTRICAL INSPECTOR AND THE PROJECT ENGINEER.
- PROVIDE PROPER WORKING CLEARANCES AT ALL ELECTRICAL EQUIPMENT.
- MAXIMUM OF SIX (6) DUPLEX OUTLETS PER 20 AMP CIRCUIT UNLESS NOTED OTHERWISE.
- ALL WORK TO COMPLY WITH THE LATEST ADOPTED VERSION OF NFPA 70, NFPA 70E, NFPA 72, NFPA 101, INCLUDING ANY SUPPLEMENTAL STATE AND LOCAL CODES.
- PROVIDE ACCESS PANELS, AS REQUIRED, TO MAINTAIN ACCESS TO NEW OR EXISTING JUNCTION BOXES, CONDUIT BODIES (OR SIMILAR ENCLOSURES) BEHIND WALLS, FLOORS OR CEILINGS THAT ARE NOT ACCESSIBLE.
- DO NOT LAY WIRES, FLEX, ETC. ON CEILING TILE.
- WHERE A FLOOR COVERING OR FINAL FLOOR FINISH IS OTHER THAN CARPET OR VINYL TILE, CONDUIT SHALL NOT BE RUN WITHIN CONCRETE SLABS. 1" OF CONCRETE OVER THE TOP OF CONDUITS AND SLABS MUST BE MAINTAINED. 1-1/2" OVER IS PREFERRED.
- DIMMER SWITCHES RATED 1,000W OR HIGHER ARE TO BE MOUNTED IN A SEPARATE BACKBOX AND NOT GANGED TOGETHER WITH OTHER DIMMER SWITCHES.
- PROVIDE SEAL-OFFS WHEN PIPING PASSES THROUGH AREAS OF DIFFERENT AMBIENT TEMPERATURES AND/OR HAZARDOUS AREAS.
- PROPER PROTECTION AGAINST CORROSION REQUIRED FOR ALL ELECTRICAL EQUIPMENT. IT SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
- BRANCH CIRCUIT CONDUCTORS SUPPLYING A SINGLE MOTOR SHALL HAVE AN AMPACITY NOT LESS THAN 125% OF THE MOTOR FULL LOAD CURRENT RATING.
- PROPER THERMAL OVERLOAD PROTECTION SHALL BE REQUIRED FOR ALL MOTORS.
- ALL ELECTRICAL DEVICES IN THE PIT OF AN ELEVATOR SHAFT SHALL BE NEMA 4 RATED. THIS INCLUDES LIGHTING, RECEPTACLES, SWITCHES, CONDUIT AND CONNECTIONS. CONNECTIONS ARE TO BE THREADED OR COMPRESSION AND COVERS PROVIDED FOR RECEPTACLES AND SWITCHES.
- DO NOT ROUGH IN ANY CIRCUITS UNTIL ALL MECHANICAL & OTHER EQUIPMENT SUBMITTALS ARE THOROUGHLY REVIEWED FOR CHANGES IN CIRCUIT SIZES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- PROVIDE OPERATION AND MAINTENANCE MANUALS AT PROJECT COMPLETION.
- PROVIDE NECESSARY TRAINING ON ELECTRICAL SYSTEMS TO OWNER.
- PROPER TIME IS TO BE GIVEN TO PRE-CONSTRUCTION COORDINATION OF ALL OTHER SYSTEMS. ELECTRICAL CONTRACTOR TO VERIFY MOUNTING HEIGHTS OF DEVICES WITH FINAL FURNITURE AND CABINET PLANS. FLOOR OUTLETS TO BE FIELD VERIFIED FOR EXACT PLACEMENT.
- FEEDERS ARE TO BE KEPT AWAY FROM OCCUPIED SPACES.
- ALL RECEPTACLES ARE TO BE NEMA 5-20R AND SPECIFICATION GRADE UNLESS NOTED OTHERWISE. ALL CIRCUITS TO RECEPTACLES TO HAVE SEPARATE EQUIPMENT GROUNDING CONDUCTORS INDEPENDENT OF RACEWAYS. DEVICE COLOR TO BE WHITE. COVER TO BE STAINLESS STEEL.
- PROVIDE PROPER SEPARATION BETWEEN LOW VOLTAGE CONDUCTORS AND HIGHER VOLTAGE CONDUCTORS.
- MAKE SURE THERE ARE WP, GFCI, WR RECEPTACLES WITHIN 25 FEET OF HVAC EQUIPMENT FOR SERVICEABILITY.
- ALL RECEPTACLES OUTDOORS ARE TO BE WR LISTED, AND GFCI PROTECTED. THE RECEPTACLE IS TO BE MOUNTED INSIDE A WP METAL BOX THAT IS LISTED WITH THE COVER CLOSED.
- ALL RECEPTACLES WITHIN 6'-0" OF A SINK EDGE IS TO BE GFCI TYPE WHETHER LOCATED ABOVE THE COUNTER OR NOT.
- PROVIDE BLANK COVERPLATES FOR ALL UNUSED JUNCTION-BOXES AND BACK-BOXES AT JOB COMPLETION.
- E.C IS TO REVIEW ALL OTHER TRADES CONSTRUCTION DRAWINGS AND SHOP DRAWINGS FOR ANY ELECTRICAL ROUGH-IN REQUIREMENTS NOT SHOWN IN ELECTRICAL CONSTRUCTION DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, ARCHITECTURAL, INTERIOR DESIGN, MECHANICAL, PLUMBING, FOOD SERVICE, BREWING, FIRE ALARM AND ANY OTHER SPECIALTY SYSTEM DOCUMENTS.
- OWNER AND/OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR CONTACTING AND COORDINATING SERVICES AND EQUIPMENT CONTRACTS FOR PHONE, INTERNET, CABLE TV, SECURITY, ACCESS CONTROL, PAGING, SOUND, ETC., ALONG WITH SERVICE ENTRANCE RACEWAY SIZES AND LOCATIONS. INTERIOR RACEWAYS AND BACK-BOXES FOR SUCH SYSTEMS WILL BE INSTALLED PER PART OF THE BASE CONTRACT DOCUMENTS BY THE ELECTRICAL CONTRACTOR. REFER TO TELE/DATA NOTES FOR CABLING, JACK AND CABLE TERMINATION REQUIREMENTS, IF ANY, AS PART OF THIS PROJECT'S CONTRACT.
- PROVIDE FLUSH FLOOR BOXES AT LOCATIONS SHOWN. FLOOR BOXES TO BE FSR INC. #FL-500P-4 WITH #FL-500P-SSQ-C FLUSH ALUMINUM CARPET/TILE COVER WIT LIFT-OFF DOOR. PROVIDE POWER AND I.T. RACEWAYS TO BOXES. COORDINATE EXACT LOCATIONS OF OPENINGS WITH ARCHITECTURAL AND OWNER PRIOR TO ROUGH-IN.

## MOUNTING HEIGHTS

SWITCHES	48"
RECEPTACLES - STANDARD	18"
RECEPTACLES - ABOVE COUNTERS	44"
RECEPTACLES - MECHANICAL ROOMS	48"
RECEPTACLES - PLANT AREAS & GARAGE	48"
RECEPTACLES - EXTERIOR	24" (ABOVE FINISH GRADE)
TELEVISION RECEPTACLE	90"
LOW VOLTAGE OUTLETS	SAME AS RECEPTACLES
DISCONNECT SWITCHES	60" (TO CENTER OF HANDLE)
MOTOR STARTERS	60" (TO CENTER OF HANDLE)
PANELS	72" TO 78" (TO TOP OF PANEL AS LONG AS BOTTOM IS AT LEAST 12" AFF)
FIRE ALARM PULL STATIONS	48" (TO TOP OF PULL HANDLE)
FIRE ALARM INDICATING DEVICES	6' 8" (TO BOTTOM OF DEVICE OR 6" FROM CEILING TO CENTER)
CONTROL BUTTONS - FINISHED AREAS	48"
CONTROL BUTTONS - UNFINISHED AREAS	60"
CARD READERS, ETC.	48"
WALL MOUNTED CLOCKS, SPEAKERS, EXIT SIGNS, EMERGENCY LIGHTING	92"
EXTERIOR BUILDING MOUNTED LIGHT FIXTURES (SEE ARCHITECTURAL ELEVATIONS OR COORDINATE WITH ARCHITECTURAL FEATURES)	

UNLESS NOTED OTHERWISE, MEASUREMENTS INDICATE TO CENTER OF BOX. IF DEVICE IS MARKED ON DRAWINGS DIFFERENTLY THAN THIS SCHEDULE, USE DRAWINGS AS A GUIDE. CERTAIN PROJECT CONDITIONS MAY WARRANT VARYING THE HEIGHTS. ELECTRICAL CONTRACTOR'S FIELD FOREMAN IS TO STUDY FINAL DOCUMENTS WITH SUBMITTALS FROM ALL TRADES BEFORE ROUGHING IN (IF POSSIBLE), RAISED FLOORS IN COMPUTER ROOMS OR SIMILAR ROOMS TO BECOME FINISHED FLOOR HEIGHT. REFER TO INTERIOR ELEVATIONS FOR HEIGHTS AND LOCATIONS OF EQUIPMENT AND FURNITURE.

SEE MOUNTING HEIGHTS AND ABBREVIATIONS FOR VISUALS

SYM	DESCRIPTION	HGT
A	CIRCUIT BREAKER	
⎓	FUSED SWITCH	
ⓐ	CONTRACTOR	
ⓐ	DATA/TELEPHONE OUTLET	18"
ⓐ	DISCONNECT	
ⓐ	DUPLEX RECEPTACLE (NON-SWITCHED)	18"
ⓐ	COUNTER HEIGHT DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER	44"
ⓐ	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER	18"
ⓐ	DUPLEX RECEPTACLE, WATER PROOF, GROUND FAULT INTERRUPTER	18"
ⓐ	DOUBLE DUPLEX RECEPTACLE (NON-SWITCHED)	18"
●	EQUIPMENT CONNECTION POINT	
⊥	GROUND	
ⓐ	JUNCTION BOX	
ⓐ	MOTOR, ELECTRIC	
■	PANEL, BRANCH	
■	PANEL, DISTRIBUTION	
ⓐ	PUSH BUTTON SWITCH, SINGLE	48"
▲	RECEPTACLE, SPECIAL	
ⓐ	SPEAKER	
ⓐ	TELEVISION	18"
ⓐ	UTILITY METER	

MOUNTING HEIGHTS ARE AS GIVEN UNLESS NOTED OTHERWISE ON THE PLANS

SYM	DESCRIPTION	HGT
ⓐ	DUCT TYPE SMOKE DETECTOR	
ⓐ	DUCT DETECTOR TEST STATION	48"
ⓐ	FIRE ALARM AUDIO/VISUAL	84"
ⓐ	FIRE ALARM BELL	84"
ⓐ	FIRE ALARM PULL STATION	48"
ⓐ	FIRE ALARM VISUAL DEVICE	84"
ⓐ	FLOW SWITCH	
ⓐ	HEAT DETECTOR	
ⓐ	SMOKE DETECTOR	
ⓐ	TAMPER SWITCH	
ⓐ	SMOKE DAMPER	

MOUNTING HEIGHTS ARE AS GIVEN UNLESS NOTED OTHERWISE ON THE PLANS.

SYM	DESCRIPTION	HGT
ⓐ	1x4' CEILING LIGHTING FIXTURE	
ⓐ	WALL MOUNTED EMERGENCY LIGHT	
○	CAN LIGHT	
ⓐ	WALL MOUNTED LIGHT	
ⓐ	EXIT, 1-WAY	
ⓐ	EXIT, 2-WAY	
S	SWITCH, SINGLE POLE	48"
S3	SWITCH, 3-WAY	48"
S4	SWITCH, 4-WAY	48"
SOP	SWITCH, OCCUPANCY SENSOR	48"
SD	SWITCH, DIMMER	48"

MOUNTING HEIGHTS ARE AS GIVEN UNLESS NOTED OTHERWISE ON THE PLANS.

## RISER INFORMATION

EACH UNIT WILL HAVE ITS OWN ELECTRICAL SERVICE. EACH UNIT IS TO HAVE A 150 AMP SERVICE, WHICH IS NINE SERVICES PLUS ONE HOUSE SERVICE FOR A TOTAL OF TEN 150 AMP, SINGLE PHASE SERVICES. ALL ELECTRICAL IS TO BE COORDINATED BETWEEN THE ELECTRICIAN, THE CITY OF KALAMAZOO, AND CONSUMER'S ENERGY



**ARCHITECT**  
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PROJECT NUMBER  
2022.034

PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI

CLIENT  
KYLE GULAU

ISSUE  
CONSTRUCTION DOCUMENTS

REVISION

DRAWN BY  
Author

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

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PROJECT NUMBER  
2022.034

ELECTRICAL NOTES AND SPECIFICATIONS  
**E100**

**ELECTRICAL NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE AND ALL AUTHORITIES HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR TO SECURE AND PAY FOR ALL PERMITS AND FEES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR INSTALLATION OF ALL EQUIPMENT. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- ALL WIRING SHALL BE COPPER NO. 12 AWG MINIMUM SIZE, TYPE THHN/THXX INSULATION.
- ALL WIRING SHALL BE INSTALLED IN A METALLIC CONDUIT SYSTEM. RUN ALL NEW CONDUIT CONCEALED IN FINISHED AREAS.
- ALL RECEPTACLES SHALL BE 20 AMP, GROUNDING TYPE, WHITE COLOR AND COVERPLATES. PROVIDE GFCI TYPES WHERE SHOWN AND ANYWHERE WITHIN SIX FEET OF A PLUMBING FIXTURE. VERIFY AND COORDINATE ALL POWER OUTLETS TYPES AND LOCATIONS WITH OWNER PRIOR TO INSTALLATIONS.
- ALL LIGHT SWITCHES SHALL BE SILENT TYPE, 20 AMP., WHITE.
- MAXIMUM LOAD FOR A 20 AMP BREAKER SHALL BE 15 AMPS OR 1800 WATTS AT 120 VAC.
- PROVIDE NEW TYPED PANEL INDEXES ON ALL ELECTRICAL PANELS THAT WERE REVISED.
- LIGHTING SHOWN SCHEMATICALLY ON REFLECTED CEILING PLAN, CENTER LIGHTINGS IN ROOM UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- GUARANTEE ELECTRICAL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.
- IT IS UNDERSTAND AND AGREED BY THE INSTALLER THAT WORK HEREIN DESCRIBED SHALL BE COMPLETE IN EVERY DETAIL, EVEN THOUGH EVERY ITEM INVOLVED IS NOT PARTICULARLY MENTIONED. INSTALLER SHALL BE HELD TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE WORK INTENDED AND DESCRIBED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUCH MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO, CONDUIT, FITTINGS, COVERPLATES, WIRING, BREAKERS, CONTROL DEVICES, LIGHTING ACCESSORIES, ETC. THIS ALSO INCLUDES EQUIPMENT REQUIRED BY STATE AND LOCAL CODES.
- ELECTRICAL AND DATA OUTLETS ARE SHOWN SCHEMATICALLY IN NATURE. REVIEW FINAL PLACEMENT WITH OWNER BEFORE INSTALL.
- THE ELECTRICAL SYSTEM IS TO BE A DESIGN BUILD SYSTEM. IT IS TO BE DESIGNED, PROVIDED, AND INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR OR ENGINEER IN THE STATE OF MICHIGAN. THE SYSTEM IS TO BE DESIGNED TO MEET ALL APPLICABLE MICHIGAN ELECTRICAL CODES IN FORCE AT THE TIME OF INSTALLATION AND INSPECTION. ANY ELECTRICAL SHOWN IS FOR REFERENCE ONLY AND HAS BEEN DESIGNED BY A LICENSED CONTRACTOR. THE ARCHITECT DOES NOT TAKE ANY LIABILITY FOR THESE SYSTEMS.

**ELECTRICAL FIXTURES**

TAG/SYMBOL	MANUFACTURER & DESCRIPTION	MODEL # / URL
□	LITHONIA 6" CYLINDER CAN LIGHT	LDN6 CYLINDER SERIES; <a href="https://lithonia.acuitybrands.com/products/detail/564953/lithonia-lighting/ldn6-cylinder-series/led-cylinders">https://lithonia.acuitybrands.com/products/detail/564953/lithonia-lighting/ldn6-cylinder-series/led-cylinders</a>
○	LITHONIA 6" RECESSED CAN LIGHT OR WALL WASH	LDN6; <a href="https://lithonia.acuitybrands.com/products/detail/1112971/lithonia-lighting/contractor-select-ldn6-round-series">https://lithonia.acuitybrands.com/products/detail/1112971/lithonia-lighting/contractor-select-ldn6-round-series</a>
—	BEACH LIGHTING ULTRA SLIM LED UNDERCABINET LIGHT	BEA380917; <a href="https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=380917&amp;cat_id=321">https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=380917&amp;cat_id=321</a>
~	POWERLED SURFACE UNDERCABINET PUCK LIGHT	DLS472984; <a href="https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=472984&amp;cat_id=136">https://www.lightology.com/index.php?module=prod_detail&amp;prod_id=472984&amp;cat_id=136</a>
○	LITHONIA HIGH BAY LED LIGHT FIXTURE	JCBL; <a href="https://www.acuitybrands.com/products/detail/560426/lithonia-lighting/jcbl/led-high-bay">https://www.acuitybrands.com/products/detail/560426/lithonia-lighting/jcbl/led-high-bay</a>
□	BROAN EXHAUST FAN WITH LED LIGHT, 110 CFM	NUTONE FLEX SERIES; <a href="http://www.broan-nutone.com/en-us/product/ventilationfans/791ledntm">www.broan-nutone.com/en-us/product/ventilationfans/791ledntm</a>
□	LITHONIA EMERGENCY LIGHT	ELM6L; <a href="https://lithonia.acuitybrands.com/products/detail/804151/lithonia-lighting/elm6l-emergency-light/quantum-led-adjustable-optics-1100-lumens-emergency-light">https://lithonia.acuitybrands.com/products/detail/804151/lithonia-lighting/elm6l-emergency-light/quantum-led-adjustable-optics-1100-lumens-emergency-light</a>
□	LITHONIA EXIT-UNIT COMBO	LHQM LED; <a href="https://lithonia.acuitybrands.com/products/detail/48281/lithonia-lighting/lhqm-led/quantum-led-exit-unit-combo">https://lithonia.acuitybrands.com/products/detail/48281/lithonia-lighting/lhqm-led/quantum-led-exit-unit-combo</a>
□	BROWNLEE LIGHTING VANITY LIGHT	FLOW SQ; <a href="https://www.brownlee.com/product/5165LED">https://www.brownlee.com/product/5165LED</a>
□	LITHONIA LED FLAT PANEL 2'X2' OR 2'X4' LED FIXTURE	CPX; <a href="https://www.acuitybrands.com/products/detail/855690/lithonia-lighting/contractor-select-cpx-led-flat-panel/most-popular-and-readily-available-configurations-for-your-everyday-lighting-needs">https://www.acuitybrands.com/products/detail/855690/lithonia-lighting/contractor-select-cpx-led-flat-panel/most-popular-and-readily-available-configurations-for-your-everyday-lighting-needs</a>
□	MARK ARCHITECTURAL LIGHTING, 4' LED RECESSED STRIP LIGHT	SLOT 4 RECESSED; <a href="https://marklighting.acuitybrands.com/products/detail/122734/mark-">https://marklighting.acuitybrands.com/products/detail/122734/mark-</a>
□	BIG ASS FANS FAN WITH LIGHT	HAIKU L; <a href="https://www.bigassfans.com/fans/haiku/">https://www.bigassfans.com/fans/haiku/</a>
□	BIG ASS FANS 8' DIA. FAN	16; <a href="https://www.bigassfans.com/fans/16/">https://www.bigassfans.com/fans/16/</a>

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 PROJECT ADDRESS  
708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
KYLE GULAU

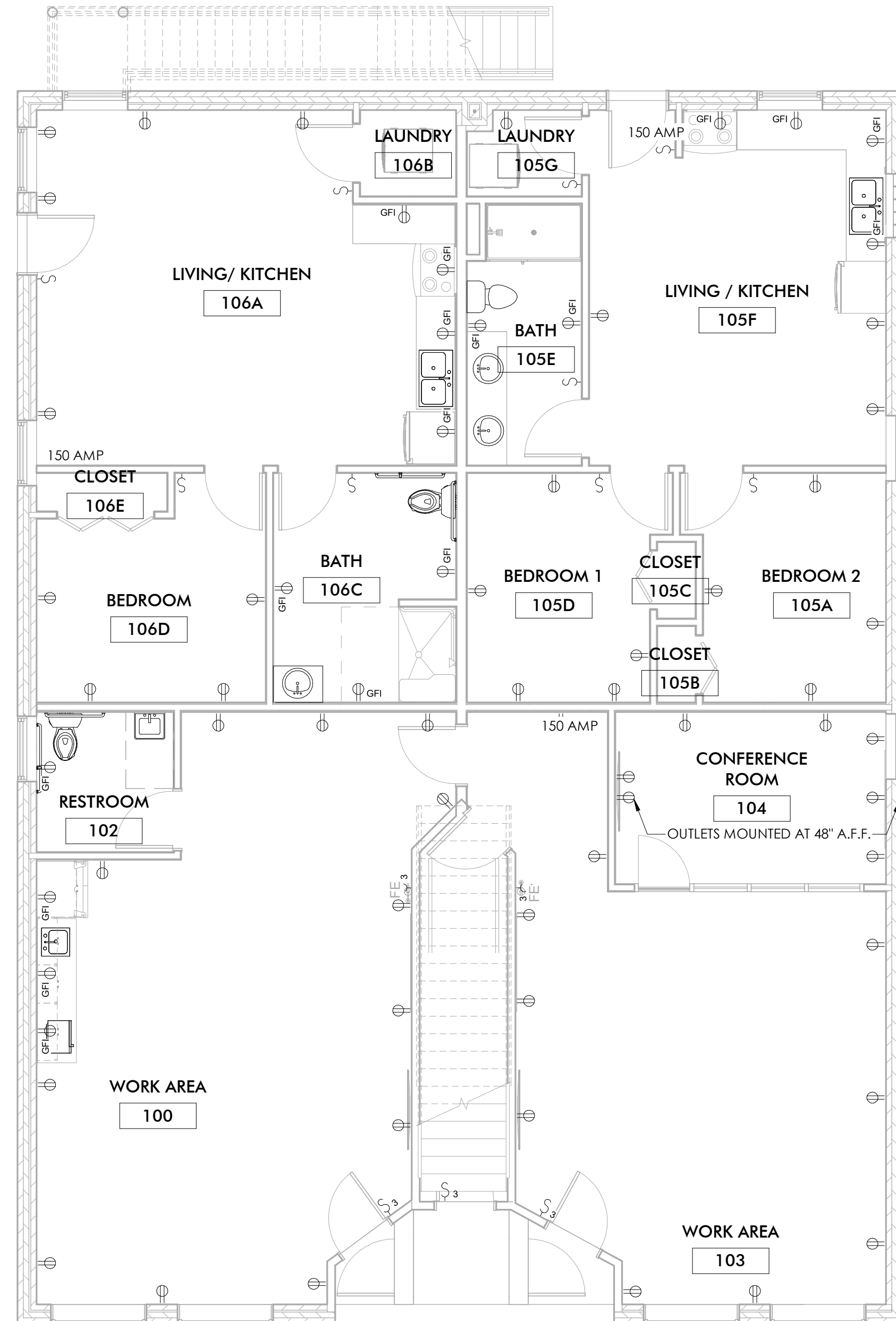
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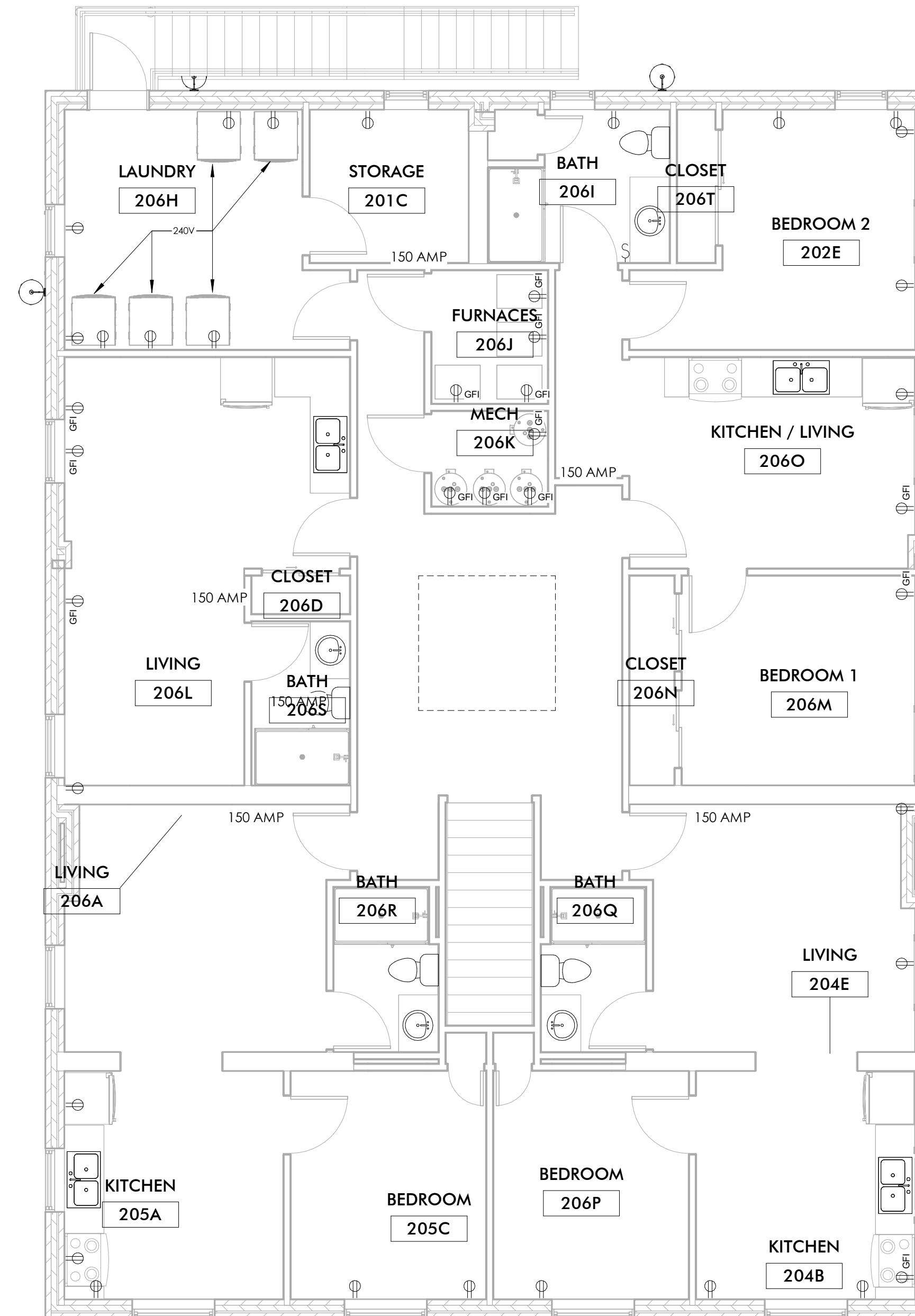
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PROJECT NUMBER  
2022.034

ELECTRICAL PLAN  
**E101**



**1 FIRST FLOOR ELECTRICAL PLAN**  
 3/16" = 1'-0"



**2 SECOND FLOOR ELECTRICAL PLAN**  
 3/16" = 1'-0"

**ELECTRICAL SYMBOLS**

□	THREE-WAY SWITCH	THREE-WAY SWITCH
□	SWITCH	SWITCH
□	GROUNDING FAULT INTERCEPTOR OUTLET	GROUNDING FAULT INTERCEPTOR OUTLET
□	QUADRUPLUX OUTLET	QUADRUPLUX OUTLET
□	DUPLEX OUTLET	DUPLEX OUTLET

# PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
APD	AIR PRESSURE DROP	MTG	MOUNTING
BD	BALANCING DAMPER	MV	MANUAL AIR VENT
BF	BARRIER FREE	NC	NORMALLY CLOSED
BOD	BOTTOM OF DUCT ELAVATION	NFHW	NON-FREEZE WALL HYDRANT
BTUH	BRITISH THERMAL UNIT PER HOUR	NIC	NOT IN CONTRACT
BV	BALANCING VALVE	NO	NORMALLY OPEN
CB	CATCH BASIN	OA	OUTSIDE AIR
CBV	CALIBRATED BALANCING VALVE	OAI	OUTSIDE AIR INTAKE
CFH	CUBIC FEET PER HOUR	PD	PRESSURE DROP
CFM	CUBIC FEET PER MINUTE	PIV	POST INDICATOR VALVE
CH	CABINET HEATER	PRV	PRESSURE REDUCING VALVE
CI	CAST IRON	PR	PANEL RADIATION
CM	CEILING MOUNTED	PT	PRESSURE / TEMPERATURE TAPPING
CO	CLEAN OUT	RA	RETURN AIR
CV	CONTROL VALVE	RAV	RELIEF AIR VENT
CW	DOMESTIC COLD WATER	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	RH	RELATIVE HUMIDITY
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
EA	EXHAUST AIR	RPPBP	REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER
EAT	ENTERING AIR TEMPERATURE	RV	RELIEF VALVE
EDB	ENTERING DRY BULB	RW	RAW WATER (UNSOFTENED)
EF	EXHAUST FAN	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SENS	SENSIBLE
EWB	ENTERING WET BULB	SH	SHOWER
EWC	ELECTRIC WATER COOLER	SK	SINK
EWT	ENTERING WATER TEMPERATURE	SOV	SHUT-OFF VALVE
EXIST	EXISTING	SP	STATIC PRESSURE
FD	FLOOR DRAIN	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TOT	TOTAL
FR	FIN RADIATION	TR	TEMPERATURE RISE
HB	HOSE BIBB	TS	TIP SPEED
GPM	GALLONS PER MINUTE	TSP	TOTAL STATIC PRESSURE
HP	HORSE POWER	UH	UNIT HEATER
HW	DOMESTIC HOT WATER	UR	URINAL
HWR	DOMESTIC HOT WATER RETURN	VAV	VARIABLE AIR VOLUME BOX
IE	INVERT ELEVATION	V	VENT
LAT	LEAVING AIR TEMPERATURE	VEL	VELOCITY
LAV	LAVATORY	VIF	VERIFY IN FIELD
LDB	LEAVING DRY BULB	VTR	VENT THRU ROOF
LVR	LOUVER	W	WASTE
LWB	LEAVING WET BULB	WC	WATER CLOSET
LWT	LEAVING WATER TEMPERATURE	WPD	WATER PRESSURE DROP
MA	MIXED AIR		
MAT	MIXED AIR TEMPERATURE		
MAX	MAXIMUM		
MB	MOP BASIN		
MBH	BRITISH THERMAL UNIT PER HOUR (THOUSANDS)		

# SYMBOLS

AW	ACID WASTE	MVAC	MEDICAL VACUUM
AWV	ACID WASTE VENT	OSD	OUTSIDE STEM AND YOKE VALVE
	BALANCING VALVE	O2	OXYGEN
	BUTTERFLY VALVE		PRESSURE GAUGE
	CALIBRATED BALANCING VALVE		PRESSURE REDUCING VALVE
	CAP		PRESSURE RELIEF VALVE
	CHECK VALVE		PRESSURE / TEMPERATURE TAPPING
CR	CHILLER RETURN	PHR	PRIMARY HEATING HOT WATER RETURN
CS	CHILLER SUPPLY	PHS	PRIMARY HEATING HOT WATER SUPPLY
CWR	CHILLED WATER RETURN	PC	PUMPED CONDENSATE
CWS	CHILLED WATER SUPPLY		REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
CA	COMPRESSED AIR	SAN	SANITARY SEWER (ABOVE FLOOR)
COND	CONDENSATE	SAN	SANITARY SEWER (BELOW FLOOR)
CD	CONDENSATE DRAIN		SHUT-OFF VALVE
CTR	COOLING TOWER RETURN	SCW	SOFT COLD WATER
CTS	COOLING TOWER SUPPLY	SHW	SOFT HOT WATER
	FIRE DAMPER (HORIZONTAL)	SHWR	SOFT HOT WATER RETURN
	FIRE DAMPER (VERTICAL)		SPRING CHECK VALVE
	FIRE/SMOKE DAMPER	STM (#)	STEAM
FP	FIRE PROTECTION		STEAM TRAP
	FLOW METER (PROBE TYPE)	ST	STORM SEWER (ABOVE FLOOR)
	FLOW METER (WAFFER TYPE)	ST (OF)	STORM SEWER (OVERFLOW SYSTEM)
	FLOW SWITCH	ST	STORM (BELOW FLOOR)
FD	FOOTING DRAIN	STR	STRAINER
FOR	FUEL OIL RETURN	TS	TEMPERATURE SENSOR
FOS	FUEL OIL SUPPLY	TW	TEPID WATER
G	GAS	TWR	TEPID WATER RETURN
	GAS COCK		THERMOMETER
HR	HEATING HOT WATER RETURN		THERMOSTAT
HS	HEATING HOT WATER SUPPLY		THREE-WAY CONTROL VALVE
HPR	HEAT PUMP RETURN		THROTTLING VALVE
HPS	HEAT PUMP SUPPLY		TRIPLE DUTY VALVE (ANGLE)
	HOT WATER RETURN (DOMESTIC)		TRIPLE DUTY VALVE (STRAIGHT)
	HOT WATER SUPPLY (DOMESTIC)		UNION
	HUMIDISTAT	VAC	VACUUM
MA	MEDICAL AIR	VACB	VACUUM BREAKER
		V	VENT

# PLUMBING FIXTURES

**WATER CLOSET (TANK TYPE) WC-1**  
 WATER CLOSET (FLOOR MOUNTED): KOHLER WELLWORTH CLASSIC, TWO-PIECE ELONGATED 1.6 GPF TOILET, K-3505-SS, VITEOUS CHINA, EQUIPPED WITH SLOAN FLUSHMATE POLISHED CHROME LEFT HANDED LEVER, WITH ANTIMICROBIAL FINISH, WHITE IN COLOR, CONTRACTOR TO SUPPLY OPEN FRONT SEAT, TO MATCH, THE TOILET IS ASME A112.19.2/CSA B45.1 AND ADA COMPLIANT

**SK-1**  
 KOHLER SOHO K-2084-0 WHITE 20" X 18" WALL-MOUNT BATHROOM SINK WITH SINGLE FAUCET HOLE KOHLER KUMIN K-98827-4-CP POLISHED CHROME SINGLE-HANDLE BATHROOM SINK FAUCET

**SK-2**  
 KOHLER PROLOGUE K-31465-1-NA UNDERMOUNT DOUBLE-EQUAL KITCHEN SINK: 33" X 22" X 9", PROVIDE WITH KOHLER SIMPLICE SINGLE-HOLE KITCHEN SINK FAUCET WITH 1.6-5/8" PULL-DOWN SPOUT, DOCKNETIK MAGNETIC DOCKING SYSTEM, AND A 3-FUNCTION SPRAYHEAD; POLISHED CHROME FINISH

**SK-3**  
 KOHLER KATHRYN K-2297-0 UNDERMOUNT BATHROOM SINK: 23-7/8" X 15-5/8" X 6-1/4" WHITE, PROVIDE WITH KOHLER KUMIN K-98827-4-CP POLISHED CHROME SINGLE-HANDLE BATHROOM SINK FAUCET

**SS-1**  
 SERVICE SINK: ONE PIECE 23"x23" FLOOR MOUNT SINGLE UTILITY SERVICE SINK WHITE BY FLORESTONE MANUFACTURER PART #FM-1 UD

**SH-1**  
 ADA SHOWER: 60"x32" OR 36"x36" ADA LINEAR DRAIN ROLL-IN SHOWER, LEFT OR RIGHT SEAT, SEE PLAN, WHITE IN COLOR, BY FREEDOM SHOWERS OR EQUIVALENT

**FLOOR DRAIN FD-1**  
 ASME A112.21.1: LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND 6 INCH DIAMETER, ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER, PROVIDE TRAP PRIMER CONNECTION AT ALL LOCATIONS SHOWN ON PLANS, AND AS REQUIRED BY CODE.

**WATER HEATER WH-1**  
 RHEEM 40 GALLON ELECTRIC OR GAS WATER HEATER - PROFESSIONAL PRESTIGE MODEL #PROPE40T2RH95EC2

**WATER HEATER WH-2**  
 RHEEM 20 GALLON ELECTRIC PROFESSIONAL CLASSIC SERIES: POINT-OF-USE MODEL #PROE201RHP0U

# PLUMBING NOTES

- FITTINGS, TRIM, AND ACCESSORIES
- TOILET SEATS: ELONGATED, SOLID WHITE PLASTIC WITH MOLDED-IN BUMPERS, CLOSED BACK/OPEN FRONT, LESS COVER, AND HAVING BRASS CHECK HINGE.
  - SUPPLIES AND STOPS FOR LAVATORIES AND SINKS: POLISHED CHROME-PLATED, LOOSE-KEYED ANGLE STOP HAVING 1/2" INLET AND 3/8" O.D. X 12" LONG CHROME-PLATED BRASS TUBING OUTLET, AND WALL FLANGE AND ESCUTCHEON.
  - TRAPS: BRASS, CHROME PLATED ADJUSTABLE "P" TRAP WITH CLEANOUT AND WASTE TO WALL WITH ESCUTCHEON.
  - THERMOSTATIC MIXING VALVE FOR INDIVIDUAL LAVS OR SINKS: CONFORM TO ASSE STANDARD 1070 WITH HIGH LIMIT SET AT 110°F WITH CHECKSTOPS ON INLETS, WATTS SERIES USG-B UNDER SINK GUARDIAN OR EQUAL.
  - BARRIER-FREE LAVATORY TRAP WRAP: PROVIDE ADA-CONFORMING, WHEELCHAIR ACCESSIBLE LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLY PROTECTIVE PIPE COVER. COVER SHALL BE SECURED WITH SNAP-CLIP FLUSH REUSABLE FASTENERS, ANGLE STOP SHALL HAVE LOCK-LID LOCKING ACCESS COVERS. TRUE-BRO LAV GUARD OR EQUAL.
  - IN LOCATIONS WHERE ARCHITECT IS PROVIDING A BELOW COUNTER BARRIER-FREE COUNTERTOP BASIN SHIELD, PROVIDE OFFSET TAILPIECE TO ALLOW FOR INSTALLATION OF ARCHITECTURAL SHIELD / AVOID CONFLICT WITH SINK TAILPIECE. ELKAY LKAD/LKAD18 OR EQUAL.

- INSTALLATION
- INSTALL PLUMBING FIXTURES LEVEL AND PLUMB, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS, ROUGH-IN DRAWINGS, AND PERTINENT CODES AND REGULATIONS, THE ORIGINAL DESIGN, AND THE REFERENCED STANDARDS.
  - COMPLY WITH THE INSTALLATION REQUIREMENTS OF REQUIRED CODES AND STANDARDS WITH RESPECT TO BARRIER-FREE PLUMBING FIXTURES. COORDINATE WITH GRAB BAR INSTALLATIONS.
  - INSTALL COUNTER TOP MOUNTED SINKS AS FAR FORWARD AS POSSIBLE WITHIN COUNTER TOP.
  - FASTEN PLUMBING FIXTURES SECURELY TO SUPPORTS OR BUILDING STRUCTURE. SECURE SUPPLIES BEHIND OR WITHIN WALL CONSTRUCTION TO PROVIDE RIGID INSTALLATION.
  - INSTALL A STOP VALVE IN AN ACCESSIBLE LOCATION IN THE WATER CONNECTION TO EACH FIXTURE.
  - INSTALL ESCUTCHEONS AT EACH WALL, FLOOR, AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK.
  - SEAL FIXTURES TO WALLS AND FLOORS USING SILICONE SEALANT, MATCH SEALANT COLOR TO FIXTURE COLOR.
  - INSTALL FLUSH VALVES FOR WATER CLOSETS IN OFF-SET TYPE BARRIER-FREE STALLS WITH HANDLES ON WIDE SIDE OF STALL
  - INSTALL THERMOSTATIC MIXING VALVE FOR INDIVIDUAL LAVS OR SINKS BENEATH FIXTURE, IN A VISUALLY CONCEALED LOCATION

ROUGH-IN SCHEDULE  
 LINE SIZES INDICATED BELOW ARE RUN-OUT SIZES, REDUCE SIZE AS REQUIRED AT CONNECTION TO FIXTURE. MAIN LINES SHALL BE INSTALLED AS INDICATED ON DRAWINGS.

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
LAVATORY	1/2"	1/2"	2"	2"
SINK	1/2"	1/2"	1 1/2"	2"
WATER CLOSET TANK	-	1/2"	4"	2"
MOP BASIN	3/4"	3/4"	3"	1 1/2"
NON-FREEZE HYDRANT	-	3/4"	-	-
HOSE BIBB	-	3/4"	-	-

MOUNTING HEIGHTS SCHEDULE  
 MOUNT PLUMBING FIXTURES AS SCHEDULED BELOW.

FIXTURE	MOUNTING HEIGHT
LAVATORY	31" FLOOR TO RIM
SINK	36" FLOOR TO RIM
BARRIER-FREE LAVATORIES AND SINK	REFER TO ARCH. DRAWINGS FOR EXACT LOCATION AND HEIGHTS (MAX 34" A.F.F. TO RIM)
BARRIER FREE WATER CLOSET	17" FLOOR TO TOP OF SEAT 27" FLOOR TO BOTTOM EDGE OF FRONT APRON
BARRIER FREE FLUSH VALVES	44" MAX HANDLE TO FLOOR
SHOWER HEAD	72" FLOOR TO HEAD
BARRIER FREE SHOWER CONTROLS	MIN. 38" ABOVE FLOOR, MAX 48" ABOVE FLOOR
BARRIER FREE SHOWER SPRAY UNIT	BOTTOM MAX 48" ABOVE FLOOR TOP MIN. 72" ABOVE FLOOR

\*SEE MOUNTING HEIGHTS + ABBREVIATIONS SHEET FOR VISUALS

## PLUMBING SPECIALTIES

- CALIBRATED BALANCING VALVES: PROVIDE AS INDICATED. CALIBRATED BALANCE VALVES EQUIPPED WITH VALVES ON READOUT PORTS TO FACILITATE CONNECTING OF DIFFERENTIAL PRESSURE METER TO BALANCE VALVES. READOUT VALVES SHALL HAVE 1/4" NPT CONNECTION FOR METERS. PROVIDE CALIBRATED NAMEPLATE TO INDICATED DEGREE OF CLOSURE OF ORIFICE. CONSTRUCT BALANCING VALVE WITH INTERNAL SEALS TO PREVENT LEAKAGE AROUND ROTATING ELEMENT. VALVES TO HAVE MEMORY STOP FEATURE TO ALLOW VALVE TO BE CLOSED AND THEN REOPENED TO SET POINT WITHOUT DISTURBING BALANCING POSITION. PROVIDE BALANCE VALVES WITH PERFORMED POLYURETHANE INSULATION SUITABLE FOR USE ON DOMESTIC HOT WATER SYSTEMS, AND TO PROTECT BALANCE VALVES DURING EQUIPMENT, BELL & GOSSETT "CIRCUIT SETTER" APOLLO VALVES OR EQUAL.
- RECESSED NONFREEZE WALL HYDRANTS: CAST-BRONZE BOX, WITH THE HANDLE KEY, VACUUM BREAKER, HINGED LOCKING COVER, 3/4" IN INLET, AND HOSE OUTLET. PROVIDE BRONZE CASING OF SUITABLE LENGTH TO HAVE VALVE BODY INSIDE BUILDING, NOT WITHIN EXTERIOR WALL. "WOODFORD" MODEL B67, "CONBRACO" OR EQUAL.
- BACKFLOW PREVENTER: REDUCED-PRESSURE-PRINCIPLE ASSEMBLY CONSISTING OF SHUTOFF VALVES ON INLET AND OUTLET AND STRAINER ON INLET. ASSEMBLIES SHALL INCLUDE TEST COCKS, AIR GAP DRAIN FITTING AND PRESSURE-DIFFERENTIAL RELIEF VALVE LOCATED BETWEEN 2 POSITIVE SEATING CHECK VALVES AND COMPLY WITH REQUIREMENTS OF ASSE STANDARD 1013. PRESSURE DROP THROUGH ASSEMBLY SHALL NOT EXCEED 12 PSIG. "WATTS" NO. 909 SERIES, FEBCO, APOLLO VALVES.

# GENERAL PLUMBING NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND LAWS.
- ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
- ALL WORK SHALL BE PERFORMED TO FACILITATE EXPEDITIOUS PROGRESS ON THE WHOLE PROJECT. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE AND RESOLVE POTENTIAL CONFLICTS.
- COMPLETED SYSTEMS SHALL BE TESTED, BALANCED, AND GUARANTEED. PROVIDE REPORT TO A/E.
- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE FITTINGS, OFFSETS, ETC., AS NECESSARY TO PROVIDE COMPLETE SYSTEMS.
- FURNISH AND INSTALL ALL VALVING FOR THE PROPER SECTIONALIZING AND OPERATION OF PIPING SYSTEMS. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES.
- ALL PIPES PASSING THROUGH FINISHED WALLS, PARTITIONS, AND FLOORS SHALL BE FITTED WITH ADJUSTABLE ESCUTCHEONS, AND APPROPRIATE FIRE STOPPING WHERE REQUIRED.
- ATTACH ALL FIXTURES TO SUPPORTING SURFACES PLUMB AND LEVEL. WALL HUNG UNITS SHALL BE SECURELY FASTENED TO WALL BACKING. PROVIDE CHAIR CARRIERS FOR ALL LAVATORIES
- WHERE FIXTURES ARE MOUNTED TO WALLS AND FLOORS, SEAL ALL INTERSECTIONS WITH DOW WHITE SILICONE CAULK.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING SYSTEM.
- FINAL LOCATION OF ALL CEILING FEATURES NEEDS TO BE COORDINATED WITH ALL TRADES.
- PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.
- ALL WORK AND MATERIALS SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM PROJECT COMPLETION.
- PROVIDE SHOP DRAWINGS FOR APPROVAL OF PLUMBING FIXTURES, ROOF TOP UNITS, GRILLES AND REGISTERS, FANS, WATER HEATERS, AND THERMOSTATS.
- MECHANICAL CONTRACTOR TO FIELD VERIFY ALL SITE LOCATIONS.
- SLOPE ALL NEW SANITARY PIPING A MIN. OF 1/8" PER FOOT.
- SANITIZE ALL NEW HOT & COLD WATER LINES PER LOCAL WATER DEPARTMENT REQUIREMENTS. FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROPER LEAK-FREE OPERATION OF SYSTEM. SOLDER JOINTS WITH NON-LEAD SOLDER.
- PROVIDE DI-ELECTRIC FITTINGS WHERE DISSIMILAR METALS ARE CONNECTED.
- SUPPLY ALL NECESSARY TRIM, P-TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
- DISTRIBUTE HOT & COLD WATER PIPING IN TYPE "L" HARD DRAWN COPPER TUBING, ASTM B 88, TO MEET MINIMUM CONNECTION SIZE REQUIREMENTS AS SHOWN ON THE PLUMBING FIXTURE CONNECTION SCHEDULE.
- INSULATE ALL COLD WATER LINES WITH 1" MINERAL FIBER INSULATION WITH VAPOR BARRIER. INSULATE ALL HOT WATER LINES WITH 1" FIBERGLASS.
- DRAIN, VENT AND WASTE PIPING SHALL BE SCHEDULE DWV PVC. CLEAN OUTS IN FINISHED AREAS SHALL BE RECESSED AND HAVE CHROME OR BRASS COVER PLATES FLUSH WITH THE FINISHED FLOOR.
- PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
- PROVIDE CLEAN OUTS INSIDE AND OUTSIDE THE BUILDING 100 FEET APART, AND AT LOCATIONS WHERE A CHANGE IN DIRECTION GREATER THAN 45 DEGREES OCCURS.
- INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
- AT EACH BARRIER FREE WATER CLOSET WITH FLUSH VALVE, INSTALL THE HANDLE TOWARD THE "OPEN" SIDE OF THE WATER CLOSET STALL.
- INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR. ON JANITOR ROOMS, FIRE SPRINKLER SYSTEMS, AND FLUSH VALVES.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- FURNISH AND INSTALL WATER HAMMER ARRESTERS IN ACCORDANCE WITH PDI WH201.
- LAY OUT PLUMBING WORK TO AVOID CONFLICTS WITH OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM.



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 708 N BURDICK STREET  
 PROJECT ADDRESS  
 708 N BURDICK, KALAMAZOO, MI  
 CLIENT  
 KYLE GULAU

ISSUE  
 CONSTRUCTION DOCUMENTS

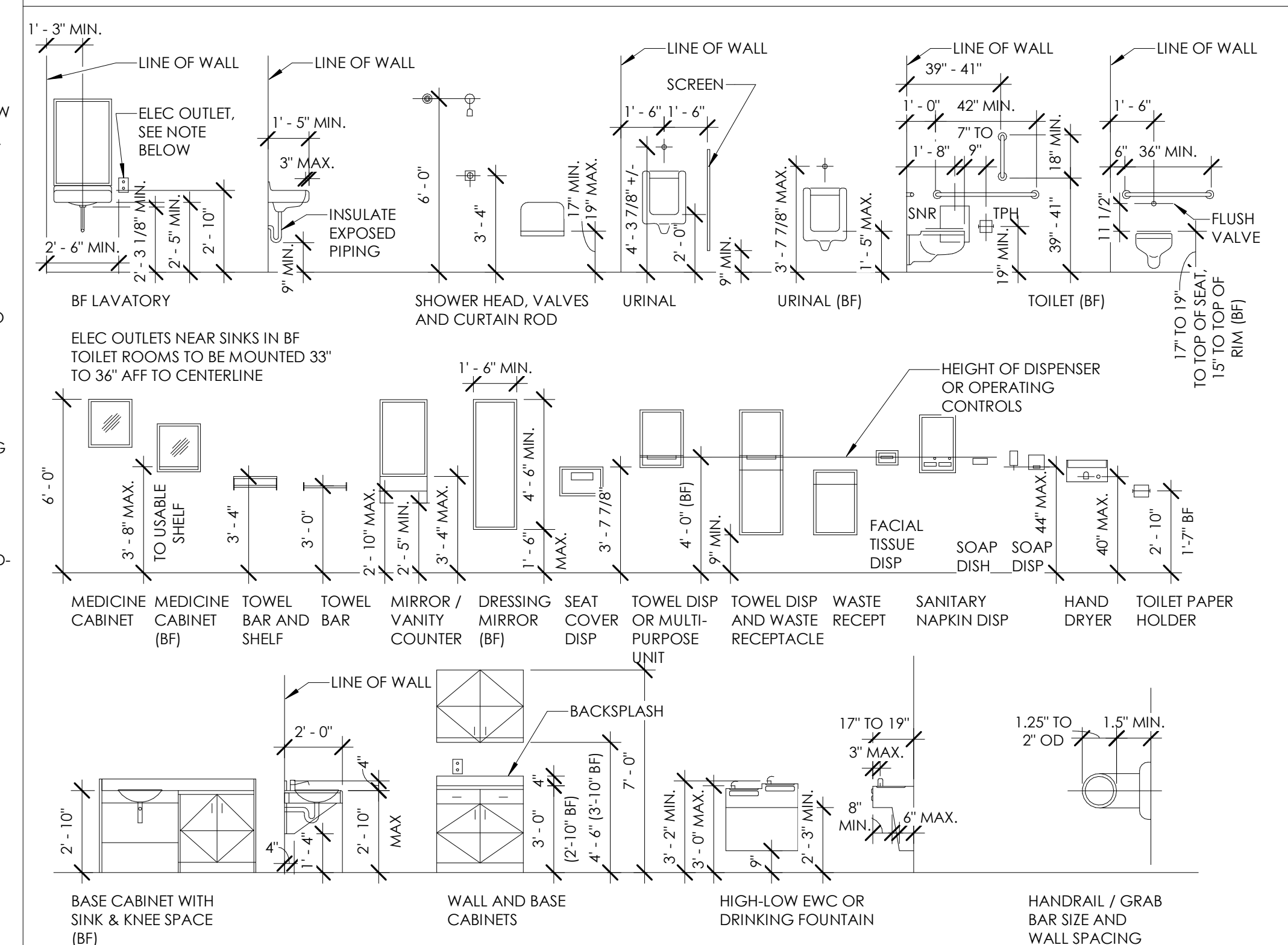
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PROJECT NUMBER  
 2022.034

PLUMBING NOTES  
**P100**

# PLUMBING FIXTURES MOUNTING HEIGHTS



**PLUMBING GENERAL NOTES**

- ALL WORK AND EQUIPMENT PROVIDED AND PERFORMED ON THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, ETC. OF ANY AND ALL AUTHORITIES HAVING JURISDICTION INCLUDING, BUT NOT LIMITED TO: 2015 MICHIGAN PLUMBING CODE, THE LOCAL FIRE MARSHALL, UNDERWRITERS LABORATORIES, IRI, FM, LOCAL HEALTH DEPARTMENT, OSHA, MIOSHA, ANY MODIFICATIONS REQUIRED BY ANY OF THE ABOVE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. WHERE THE CONTRACT DOCUMENTS EXCEED THE CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL BE FOLLOWED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE INSTALLATION.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- JOBSITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE ON SITE A QUALIFIED FOREMAN OVERSEEING ALL ASPECTS OF THE CONSTRUCTION. ENGINEER AND ARCHITECT IS NOT RESPONSIBLE FOR JOBSITE SAFETY.
- ANY HOISTS, LIFTS, OR SPECIAL EQUIPMENT REQUIRED TO SAFELY COMPLETE THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- THE BID SHALL INCLUDE ALL LABOR AND MATERIALS ESSENTIAL TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM AS DESCRIBED IN THE CONTRACT DOCUMENTS. IN CASES OF DOUBT AS TO WORK INTENDED THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INFORMATION AT LEAST FIVE(5) DAYS PRIOR TO BIDDING. ONCE CONTRACT IS AWARDED ANY DISPUTES AS TO THE INTENT OF THE DESIGN SHALL BE RESOLVED AS DIRECTED BY THE ENGINEER AND NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL NOT PROCEED WITH ANY WORK FOR WHICH ADDITIONAL COMPENSATION IS EXPECTED WITHOUT A WRITTEN CHANGE-ORDER SIGNED BY THE ENGINEER. ADDITIONAL COMPENSATION WILL NOT BE GIVEN WITHOUT A SIGNED, WRITTEN, CHANGE-ORDER. CHANGE-ORDER FORMS MAY BE REQUESTED FROM THE ENGINEER OR CONTRACTOR MAY USE THEIR OWN FORM. CHANGE-ORDER MUST INCLUDE DESCRIPTION OF CHANGE, REASON FOR CHANGE, AND COST BREAKDOWN SHOWING ITEMIZED MATERIAL COSTS, LABOR TIME AND RATE AND SEPARATELY LISTED OH&P. OH&P FOR CHANGE ORDERS SHALL NOT EXCEED 10%.
- A SET OF AS-BUILT DOCUMENTS SHALL BE KEPT ON THE JOB SITE, ACCESSIBLE TO ALL TRADES. CONTRACTOR SHALL MAINTAIN THE AS-BUILT DRAWINGS DAILY INDICATING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL MAINTAIN COMMUNICATION WITH ALL OTHER TRADES AND REVIEW AS-BUILT DOCUMENTS OF ALL TRADES ON A REGULAR BASIS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES DURING CONSTRUCTION AND FOR NOTIFYING THE ENGINEER OF ANY CHANGES THAT WILL NEED TO BE MADE AS SOON AS THEY ARE IDENTIFIED.
- ALL PRODUCTS AND MATERIALS USED SHALL BE NEW AND "BEST OF ITS KIND." PRODUCTS AND MATERIALS SHALL BE PROTECTED FROM CONSTRUCTION AND WEATHER DAMAGE. CONTRACTOR SHALL NOT INSTALL ANY COMPONENT THAT IS DAMAGED, DIRTY, OR SHOWS ANY SIGNS OF CORROSION.
- THE CONTRACTOR IS RESPONSIBLE, AT HIS OWN COST, FOR WAREHOUSING OF MATERIAL AND EQUIPMENT TO BE INSTALLED ON THIS PROJECT. COORDINATE WITH THE BUILDING OWNER AND/OR GENERAL CONTRACTOR FOR SPACE AVAILABLE ON THE JOB SITE FOR MATERIAL STORAGE.
- ONE COPY OF SHOP DRAWINGS SHALL BE SUBMITTED DIGITALLY FOR THE ITEMS LISTED BELOW WITHIN 2 WEEKS OF AWARD OF CONTRACT AND A MINIMUM OF 2 WEEKS PRIOR TO INSTALLATION. CONTRACTOR SHALL NOT ORDER EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN PROCESSED BY THE ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR BEFORE BEING SUBMITTED TO THE ENGINEER. INCLUSION IN SHOP DRAWINGS DOES NOT AUTHORIZE A DEVIATION FROM THE REQUIREMENTS OF THE SPECIFICATIONS. ALL SHOP DRAWINGS SHALL HAVE LISTED ON THE COVER SHEET ANY AND ALL PRODUCTS OR MATERIALS THAT DEVIATE FROM SPECIFICATIONS. DETERMINATION OF "EQUAL" SHALL BE MADE BY ENGINEER. AT A MINIMUM SHOP DRAWINGS SHALL BE SUBMITTED FOR: FIXTURES, DRAINS AND ACCESSORIES.
- AT PROJECT COMPLETION PROVIDE TO THE BUILDING OWNER THREE(3) BOUND SETS TO INCLUDE ALL O&M MANUALS FOR EQUIPMENT INSTALLED AND COPIES OF ALL MANUFACTURER WARRANTIES. CONTRACTOR SHALL COMPLETE ANY WARRANTY REGISTRATION CARDS NECESSARY FOR MANUFACTURER WARRANTIES.
- CONTRACTOR SHALL PROVIDE A ONE(1) YEAR WARRANTY FOR ALL WORK PERFORMED. THIS INSTALLERS WARRANTY SHALL COVER ALL MATERIAL AND EQUIPMENT NOT COVERED BY A MANUFACTURER WARRANTY AND ALL LABOR. THIS WARRANTY SHALL ALSO COVER INSTALLER ERROR OR DAMAGE.
- ALL WORK ON THIS PROJECT SHALL BE EXECUTED IN A GOOD, WORKMAN LIKE MANNER USING MECHANICS SKILLED IN THEIR RESPECTIVE TRADES. NO ALLOWANCE WILL BE GIVEN FOR POOR WORKMANSHIP. ANY INSTALLATION THAT IS OF INSUFFICIENT QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- WORK SITE IS TO BE LEFT IN A NEAT AND ORDERLY CONDITION AT THE END OF EACH WORK SHIFT.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY OWNER FURNISHED EQUIPMENT. CONTRACTOR SHALL REMOVE ANY OWNER FURNISHED ITEMS WHEN DELIVERED TO THE JOB SITE AND SHALL BE RESPONSIBLE FOR THE ITEMS ONCE RECEIVED.
- PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE SEALED USING CODE APPROVED, LABORATORY TESTED AND LABELED SEALANTS FOR A FIRE RESISTANCE RATING EQUAL TO OR GREATER THAN THE ASSEMBLY PENETRATED.
- NEW DUCTWORK, PIPING, AND CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE. CONTRACTOR SHALL COORDINATE DUCTWORK, PIPING AND CONDUITS WITH LIGHTING FIXTURES, CEILING CONSTRUCTION, STRUCTURE AIR DISTRIBUTION EQUIPMENT, ETC., AND SHALL BE OFF-SET AS REQUIRED.
- ALL PIPING TO BE INSTALLED PERPENDICULAR TO STRUCTURE LINES UNLESS OTHERWISE NOTED ON DRAWINGS. ALL PIPING TO BE NEATLY SPACED WITH RISERS AND DROPS PLUMB AND TRUE. MINIMUM SPACING SHALL HAVE 1" CLEAR BETWEEN PIPING (INCLUDING FITTINGS) AFTER INSULATION. PIPING SHALL NOT OBSTRUCT ACCESS TO EQUIPMENT, VALVES, FILTERS, ETC.
- ALL PIPING TO BE INSTALLED CONCEALED EXCEPT WHERE NOTED ON PLANS. DO NOT INSTALL PIPING BELOW SLABS EXCEPT WHERE NOTED ON PLANS. DO NOT CONCEAL PIPING UNTIL INSPECTED AND TESTED. PNEUMATIC TESTING OF ALL PIPING IS REQUIRED.
- ALL PIPING THAT PENETRATES CONCRETE SLABS OR MASONRY WALLS SHALL BE PROVIDED WITH A PIPE SLEEVE WITH AN I.D. MINIMUM 1" LARGER THAN O.D. OF PIPE. SLEEVES SHALL PROTRUDE 2" AFF AND FLUSH WITH WALL SURFACE. IF PIPE SLEEVES ARE NOT POURED-IN-PLACE, GROUT SECURELY TO WALL OR SLAB. SEAL SPACE BETWEEN PIPE AND SLEEVE. USE FIRE RATED SEALANT WHERE REQUIRED.
- PROVIDE ALL PIPING OFF-SETS AS REQUIRED FOR COORDINATION WITH STRUCTURE, DUCTWORK, CONDUITS, ETC.
- ALL PIPING AND VALVES SHALL BE LABELED WITH ENGRAVED TAGS OR PLACARDS WITH LETTERING ONE INCH(1") TALL (MINIMUM).
- USE ECCENTRIC REDUCING FITTINGS OR COUPLINGS WHERE REQUIRED TO PREVENT THE POCKETING OF LIQUIDS.
- VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS INCLUDES, BUT NOT LIMITED TO FURNISHINGS AND INSTALLING ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.
- THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTELS, JOINTS VENTS, EQUIPMENT, ETC.
- COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, FOR ALL REQUIRED OPENINGS AND EXCAVATIONS.
- ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED, A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE
- INSULATE HOT WATER AND WASTE PIPING UNDER LAVATORIES.
- PIPE INSULATION SHALL BE PER ASHRAE 90.1-2013. MINIMUM 1" FIBERGLASS INSULATION (2LB. FIRE/SMOKE 25/50) ON ALL DOMESTIC COLD WATER PIPING. 1" INSULATION ON DOMESTIC HOT WATER PIPING FOR PIPING BELOW 1 1/2" IN SIZE AND 1.5" INSULATION FOR DOMESTIC HOT WATER PIPING FROM 1 1/2" TO 4" PIPING SIZE.
- STORM PIPE INSULATION SHALL BE MINIMUM 1" FIBERGLASS INSULATION (2LB. FIRE/SMOKE 25/50) ON THE FOLLOWING: INTERIOR ABOVE-GROUND STORM WATER PIPING. VERTICAL UP TO ROOF DRAINS AND OVERFLOW ROOF DRAINS, INCLUDING DRAIN BODY, SUMP RECEIVER PANS, AND ALL HORIZONTAL RUNS.
- PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE GROUP.
- PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
- LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110°F PROVIDE SELF-CLOSING VALVES W/ SHUTOFF.
- PROVIDE TRAP SEAL ON ALL AREA FLOOR DRAINS SUBJECT TO EVAPORATION. (SURE SEAL INLINE FLOOR DRAIN TRAP SEALER, MODEL S33000)
- DOMESTIC WATER LINES SHALL BE RUN IN ASTM B 88, TYPE L, DRAWN COPPER TUBE WITH ANSI B16.22 WROUGHT COPPER FITTINGS, ASME B16.18 UNIONS SUITABLE FOR SYSTEM FLUID TYPE, PRESSURE AND TEMPERATURE AND ASTM B 32, No-head SOLDER JOINTS FOR PIPE SIZES 2 INCHES AND SMALLER, ABOVE GROUND, WITHIN BUILDING. FOR SIZES 2 1/2 INCHES AND LARGER TYPE L COPPER WITH SOLDERED OR MECHANICAL JOINT FITTINGS, ABOVE GROUND, WITHIN BUILDING.

**PLUMBING GENERAL NOTES (CONT.)**

- DRAINAGE AND VENT PIPE APPLICATIONS - ABOVE AND BELOW GROUND, WITHIN BUILDING: SCHEDULE 40 PVC TYPE DWV PLASTIC PIPE AND FITTINGS. JOINING AND INSTALLATION OF PVC DWV DRAINAGE PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2855 AND ASTM F 402.
- INSTALL PLUMBING FIXTURES LEVEL AND PLUMB, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS, ROUGH-IN DRAWINGS, AND PERTINENT CODES AND REGULATIONS, THE ORIGINAL DESIGN, AND THE REFERENCED STANDARDS.
- COMPLY WITH THE INSTALLATION REQUIREMENTS OF REQUIRED CODES AND STANDARDS WITH RESPECT TO BARRIER-FREE PLUMBING FIXTURES. COORDINATE WITH GRAB BAR INSTALLATIONS.
- INSTALL COUNTER TOP MOUNTED SINKS AS FAR FORWARD AS POSSIBLE WITHIN COUNTER TOP.
- FASTEN PLUMBING FIXTURES SECURELY TO SUPPORTS OR BUILDING STRUCTURE. SECURE SUPPLIES BEHIND OR WITHIN WALL CONSTRUCTION TO PROVIDE RIGID INSTALLATION.
- SET MOP BASINS IN A LEVELING BED OF CEMENT GROUT.
- INSTALL A STOP VALVE IN AN ACCESSIBLE LOCATION IN THE WATER CONNECTION TO EACH FIXTURE.
- INSTALL ESCUTCHEONS AT EACH WALL, FLOOR, AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK.
- SEAL FIXTURES TO WALLS AND FLOORS USING SILICONE SEALANT, MATCH SEALANT COLOR TO FIXTURE COLOR.
- INSTALL FLUSH VALVES FOR WATER CLOSETS IN OFF-SET TYPE BARRIER-FREE STALLS WITH HANDLES ON WIDE SIDE OF STALL.
- SHOWER CONTROLS FOR INDIVIDUAL BARRIER-FREE SHOWERS SHALL BE LOCATED ON SAME WALL AS SHOWERHEAD SUPPORT BAR.
- INSTALL THERMOSTATIC MIXING VALVE FOR INDIVIDUAL LAVS OR SINKS BENEATH FIXTURE, IN A VISUALLY CONCEALED LOCATION.
- DOMESTIC WATER PIPING APPLICATIONS: INSTALL TYPE L, DRAWN COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDER JOINTS FOR ALL PIPE SIZES, ABOVE GROUND WITHIN BUILDING.
- MAKE CHANGES IN DIRECTION FOR DRAINAGE AND VENT PIPING USING APPROPRIATE 45 DEGREE WYES, HALF-WYES, OR LONG SWEEP QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS. SANITARY TEES OR SHORT QUARTER BENDS MAY BE USED ON VERTICAL STACKS OF DRAINAGE LINES WHERE THE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL, EXCEPT USE LONG-TURN TEES, WHERE TWO CROSSES MAY BE USED ON VENT LINES. NO CHANGE IN DIRECTION OF FLOW IS GREATER THAN 90 DEGREES SHALL BE MADE. WHERE DIFFERENT SIZES OF DRAINAGE PIPES AND FITTINGS ARE CONNECTED, USE PROPER SIZE, STANDARD INCREASERS AND REDUCERS. REDUCTION OF THE SIZE OF DRAINAGE PIPING IN THE DIRECTION OF FLOW IS PROHIBITED.
- INSTALL BUILDING DRAIN PITCHED DOWN AT MINIMUM SLOPE OF 1/4 INCH PER FOOT (2 PERCENT) FOR PIPING 2 1/2 INCH AND SMALLER, 1/8 INCH PER FOOT (1 PERCENT) FOR PIPING 3 INCH TO 6 INCH, AND 1/16 INCH PER FOOT, (1/2 PERCENT) FOR PIPING 8 INCH AND LARGER.
- REFER TO SECTION 306 OF THE 2015 MICHIGAN PLUMBING CODE FOR TRENCHING, EXCAVATION AND BACKFILL OF UNDERGROUND PIPING.
- REFER TO SECTION 312 OF THE 2015 MICHIGAN PLUMBING CODE FOR TESTING OF UNDERGROUND PIPING.
- CLEANOUTS ON 6" AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 1'-6" FOR RODDING.
- AIR ADMITTANCE VALVE TO BE INSTALLED PER SECTION 917 OF THE 2015 MICHIGAN PLUMBING CODE.
- PROVIDE PROTECTION FOR POTABLE WATER SUPPLY PER MICHIGAN PLUMBING CODE SECTION 608.
- SANITARY PIPE APPLICATIONS:
  - DRAINAGE AND VENT PIPE APPLICATIONS - ABOVE GROUND, WITHIN BUILDING: INSTALL PVC TYPE DWV PLASTIC PIPE AND FITTINGS OR HUBLESS CAST-IRON SOIL PIPE AND FITTINGS WITH GASKETED JOINTS.
  - DRAINAGE AND VENT PIPE APPLICATIONS - BELOW GROUND, WITHIN BUILDING: INSTALL PVC TYPE DWV PLASTIC PIPE AND FITTINGS OR HUBLESS CAST-IRON SOIL PIPE AND FITTINGS WITH GASKETED JOINTS.

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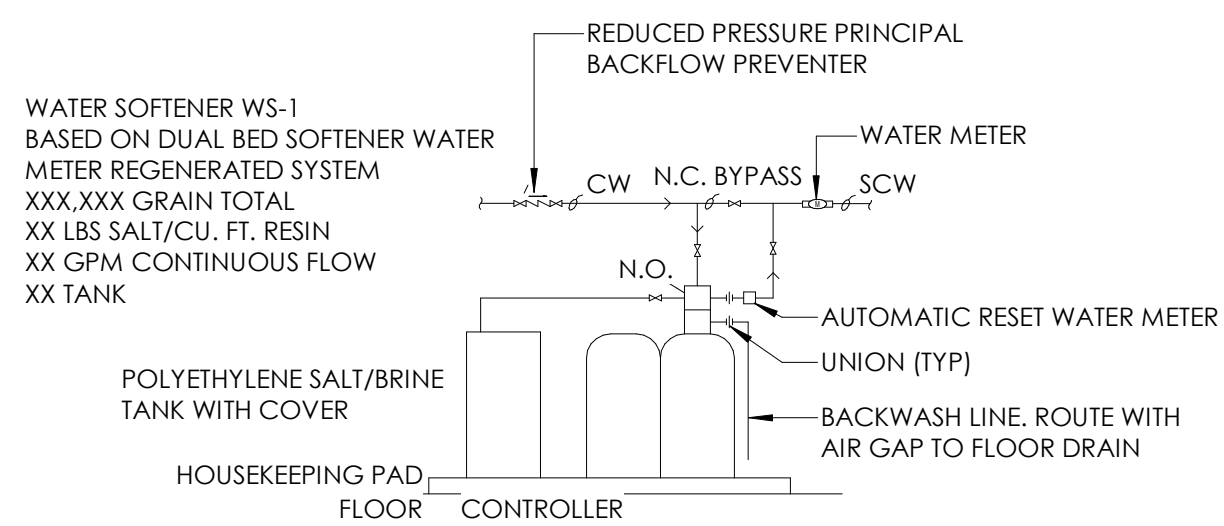
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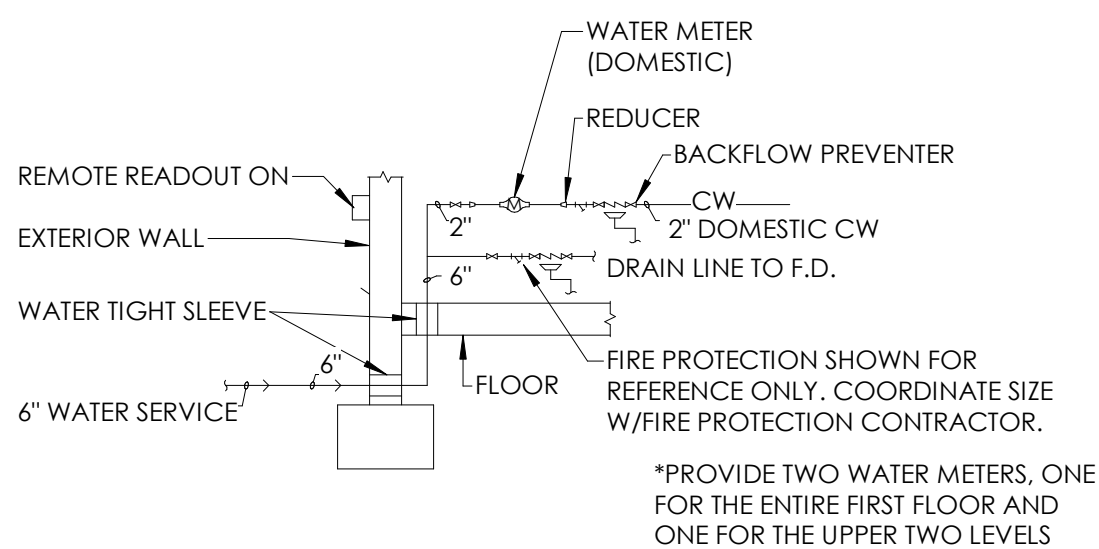
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PLUMBING DETAILS  
**P101**



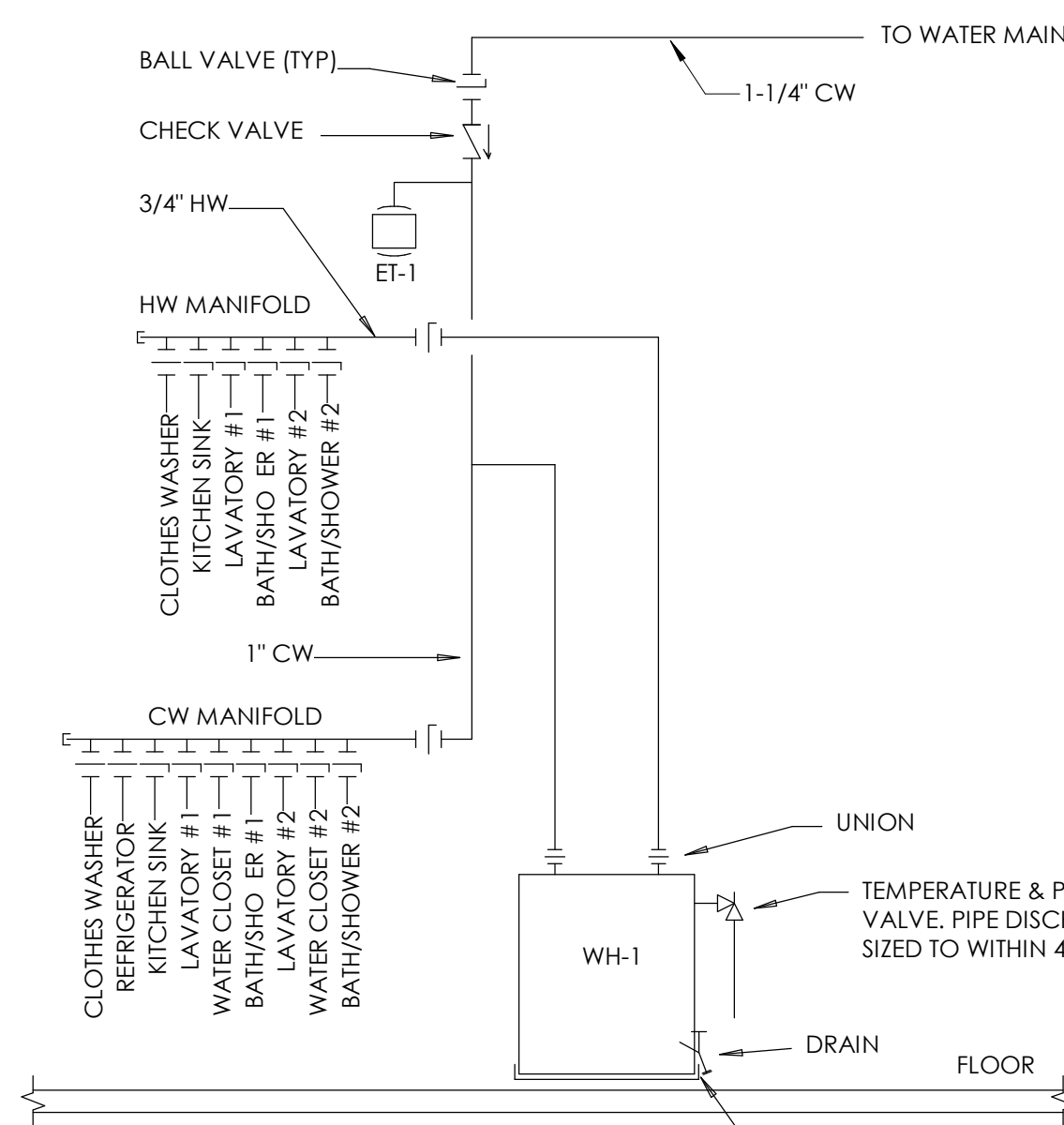
**1 WATER SOFTENER DETAIL**

P101 NTS



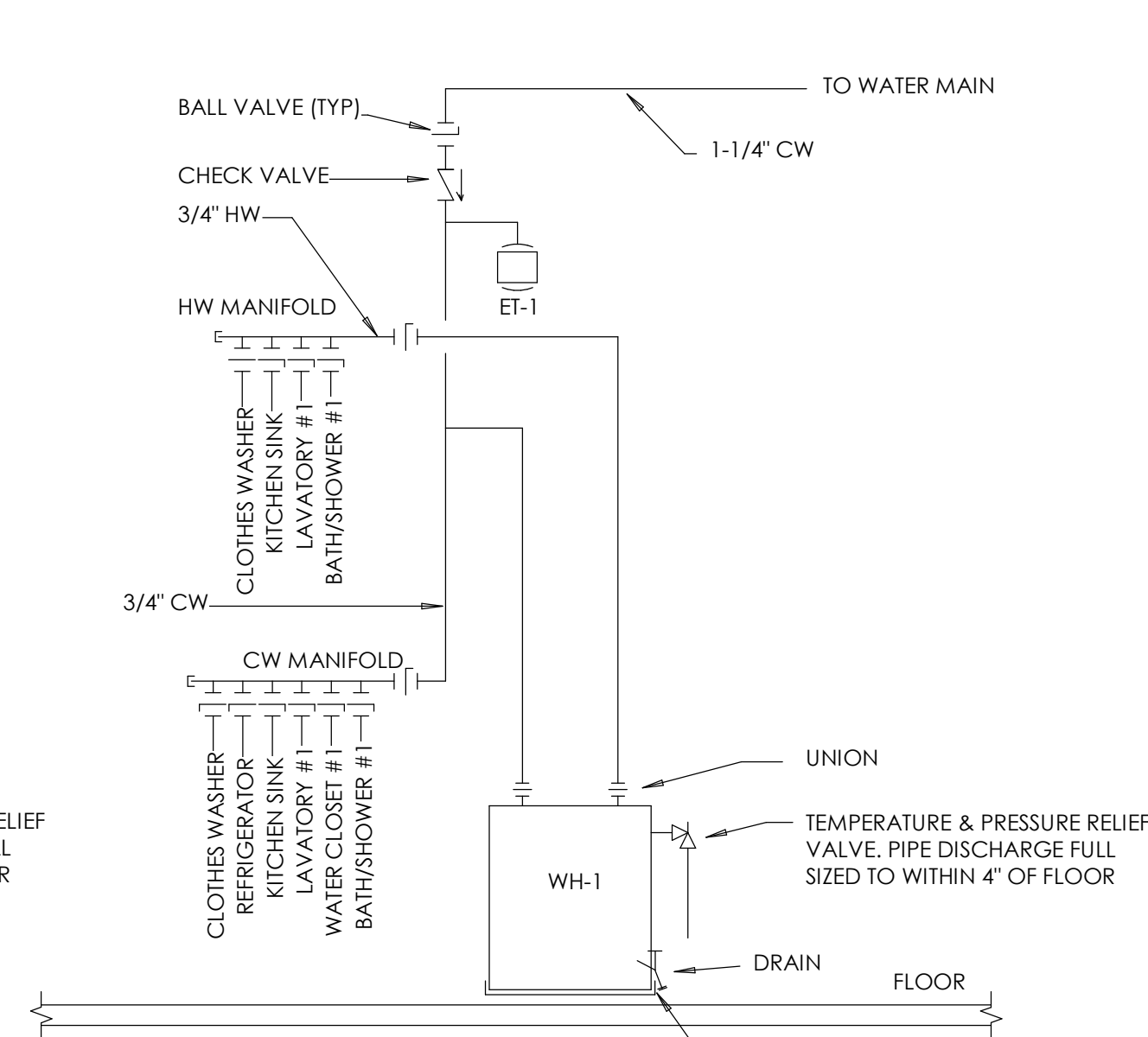
**3 WATER SERVICE DETAIL - 2 METERS**

P101 NTS



NOTE:  
ALL PIPING FROM MANIFOLD SHALL BE 1/2" RUNOUTS (TYP.).  
ALL PIPING SHALL BE ROUTED CONCEALED FROM MANIFOLD TO FIXTURE.

**2 BATH WATER HEATER AND MANIFOLD DETAIL**  
NOT TO SCALE



NOTE:  
ALL PIPING FROM MANIFOLD SHALL BE 1/2" RUNOUTS (TYP.).  
ALL PIPING SHALL BE ROUTED CONCEALED FROM MANIFOLD TO FIXTURE.

**1 BATH WATER HEATER & MANIFOLD DETAIL**  
NOT TO SCALE

**PLUMBING FIXTURES**

**WATER CLOSET (TANK TYPE) WC-1**  
 WATER CLOSET (FLOOR MOUNTED); KOHLER WELLWORTH CLASSIC, TWO-PIECE ELONGATED 1.6 GPF TOILET, K-3305-SS, VITREOUS CHINA, EQUIPPED WITH SLOAN FLUSH/WATE POLISHED CHROME LEFT HANDED LEVER, WITH ANTIMICROBIAL FINISH, WHITE IN COLOR; CONTRACTOR TO SUPPLY OPEN FRONT SEAT, TO MATCH, THE TOILET IS ASME A112.19.2/CSA B45.1 AND ADA COMPLIANT

**SK-1**  
 KOHLER SOHO K-2084-0 WHITE 20" X 18" WALL-MOUNT BATHROOM SINK WITH SINGLE FAUCET HOLE KOHLER KUMIN K-98827-4-CP POLISHED CHROME SINGLE-HANDLE BATHROOM SINK FAUCET

**SK-2**  
 KOHLER PROLOGUE K-31465-1-NA UNDERMOUNT DOUBLE-EQUAL KITCHEN SINK; 33" X 22" X 9", PROVIDE WITH KOHLER SIMPLACE SINGLE-HOLE KITCHEN SINK FAUCET WITH 1.6-5/8" PULL-DOWN SPOUT, DOCKNETIK MAGNETIC DOCKING SYSTEM, AND A 3-FUNCTION SPRAYHEAD; POOLISHED CHROME FINISH

**SK-3**  
 KOHLER KATHRYN K-2297-0 UNDERMOUNT BATHROOM SINK; 23-7/8" X 15-5/8" X 6-1/4" WHITE, PROVIDE WITH KOHLER KUMIN K-98827-4-CP POLISHED CHROME SINGLE-HANDLE BATHROOM SINK FAUCET

**SS-1**  
 SERVICE SINK; ONE PIECE 23"X23" FLOOR MOUNT SINGLE UTILITY SERVICE SINK WHITE BY FLORESTONE MANUFACTURER PART #FM-1 UD

**SH-1**  
 ADA SHOWER; 60"X32" OR 36"X36" ADA LINEAR DRAIN ROLL-IN SHOWER, LEFT OR RIGHT SEAT, SEE PLAN, WHITE IN COLOR, BY FREEDOM SHOWERS OR EQUIVALENT

**FLOOR DRAIN FD-1**  
 ASME A112.21.1; LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND 6 INCH DIAMETER, ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER, PROVIDE TRAP PRIMER CONNECTION AT ALL LOCATIONS SHOWN ON PLANS, AND AS REQUIRED BY CODE.

**WATER HEATER WH-1**  
 RHEEM 40 GALLON ELECTRIC OR GAS WATER HEATER - PROFESSIONAL PRESTIGE MODEL #PROPE40T2RH95EC2

**WATER HEATER WH-2**  
 RHEEM 20 GALLON ELECTRIC PROFESSIONAL CLASSIC SERIES; POINT-OF-USE MODEL #PROE201RHPOU

**PLUMBING NOTES**

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND LAWS.
- ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
- ALL WORK SHALL BE PERFORMED TO FACILITATE EXPEDITIOUS PROGRESS ON THE WHOLE PROJECT. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE AND RESOLVE POTENTIAL CONFLICTS.
- COMPLETED SYSTEMS SHALL BE TESTED, BALANCED, AND GUARANTEED. PROVIDE REPORT TO A/E.
- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE FITTINGS, OFFSETS, ETC., AS NECESSARY TO PROVIDE COMPLETE SYSTEMS.
- FURNISH AND INSTALL ALL VALVING FOR THE PROPER SECTIONALIZING AND OPERATION OF PIPING SYSTEMS. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES.
- ALL PIPES PASSING THROUGH FINISHED WALLS, PARTITIONS, AND FLOORS SHALL BE FITTED WITH ADJUSTABLE ESCUTCHEONS, AND APPROPRIATE FIRE STOPPING WHERE REQUIRED.
- ATTACH ALL FIXTURES TO SUPPORTING SURFACES PLUMB AND LEVEL. WALL HUNG UNITS SHALL BE SECURELY FASTENED TO WALL BACKING. PROVIDE CHAIR CARRIERS FOR ALL LAVATORIES
- WHERE FIXTURES ARE MOUNTED TO WALLS AND FLOORS, SEAL ALL INTERSECTIONS WITH DOW WHITE SILICONE CAULK.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING SYSTEM.
- FINAL LOCATION OF ALL CEILING FEATURES NEEDS TO BE COORDINATED WITH ALL TRADES.
- PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.
- ALL WORK AND MATERIALS SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM PROJECT COMPLETION.
- PROVIDE SHOP DRAWINGS FOR APPROVAL OF PLUMBING FIXTURES, ROOF TOP UNITS, GRILLES AND REGISTERS, FANS, WATER HEATERS, AND THERMOSTATS.
- MECHANICAL CONTRACTOR TO FIELD VERIFY ALL SITE LOCATIONS.
- SLOPE ALL NEW SANITARY PIPING A MIN. OF 1/8" PER FOOT.
- SANITIZE ALL NEW HOT & COLD WATER LINES PER LOCAL WATER DEPARTMENT REQUIREMENTS. FLUSH AND TEST SYSTEM FOR LEAKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROPER LEAK-FREE OPERATION OF SYSTEM. SOLDER JOINTS WITH NON-LEAD SOLDER.
- PROVIDE DI-ELECTRIC FITTINGS WHERE DISSIMILAR METALS ARE CONNECTED.
- SUPPLY ALL NECESSARY TRIM, P-TRAPS, AND ANGLE STOPS AT EACH PLUMBING FIXTURE.
- DISTRIBUTE HOT & COLD WATER PIPING IN TYPE "L" HARD DRAWN COPPER TUBING, ASTM B 88, TO MEET MINIMUM CONNECTION SIZE REQUIREMENTS AS SHOWN ON THE PLUMBING FIXTURE CONNECTION SCHEDULE.
- INSULATE ALL COLD WATER LINES WITH 1" MINERAL FIBER INSULATION WITH VAPOR BARRIER. INSULATE ALL HOT WATER LINES WITH 1" FIBERGLASS.
- DRAIN, VENT AND WASTE PIPING SHALL BE SCHEDULE DWV PVC. CLEAN OUTS IN FINISHED AREAS SHALL BE RECESSED AND HAVE CHROME OR BRASS COVER PLATES FLUSH WITH THE FINISHED FLOOR.
- PROVIDE SHUTOFF VALVES ON HOT & COLD WATER BRANCH PIPING TO ISOLATE BRANCH.
- PROVIDE CLEAN OUTS INSIDE AND OUTSIDE THE BUILDING 100 FEET APART, AND AT LOCATIONS WHERE A CHANGE IN DIRECTION GREATER THAN 45 DEGREES OCCURS.
- INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICE AND CLEANING.
- AT EACH BARRIER FREE WATER CLOSET WITH FLUSH VALVE, INSTALL THE HANDLE TOWARD THE "OPEN" SIDE OF THE WATER CLOSET STALL.
- INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR, ON JANITOR ROOMS, FIRE SPRINKLER SYSTEMS, AND FLUSH VALVES.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- FURNISH AND INSTALL WATER HAMMER ARRESTERS IN ACCORDANCE WITH PDI WH201.
- LAY OUT PLUMBING WORK TO AVOID CONFLICTS WITH OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM.

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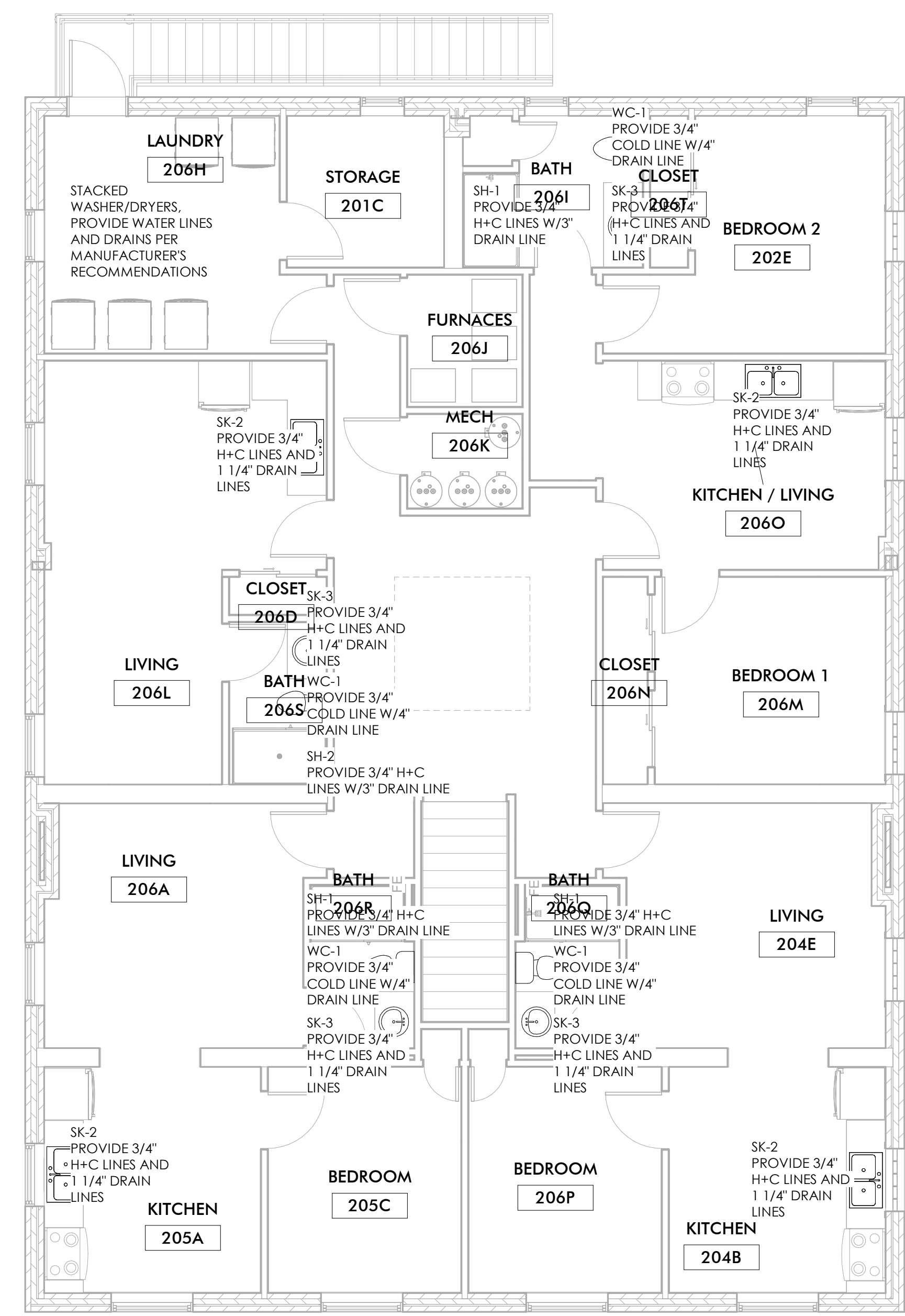
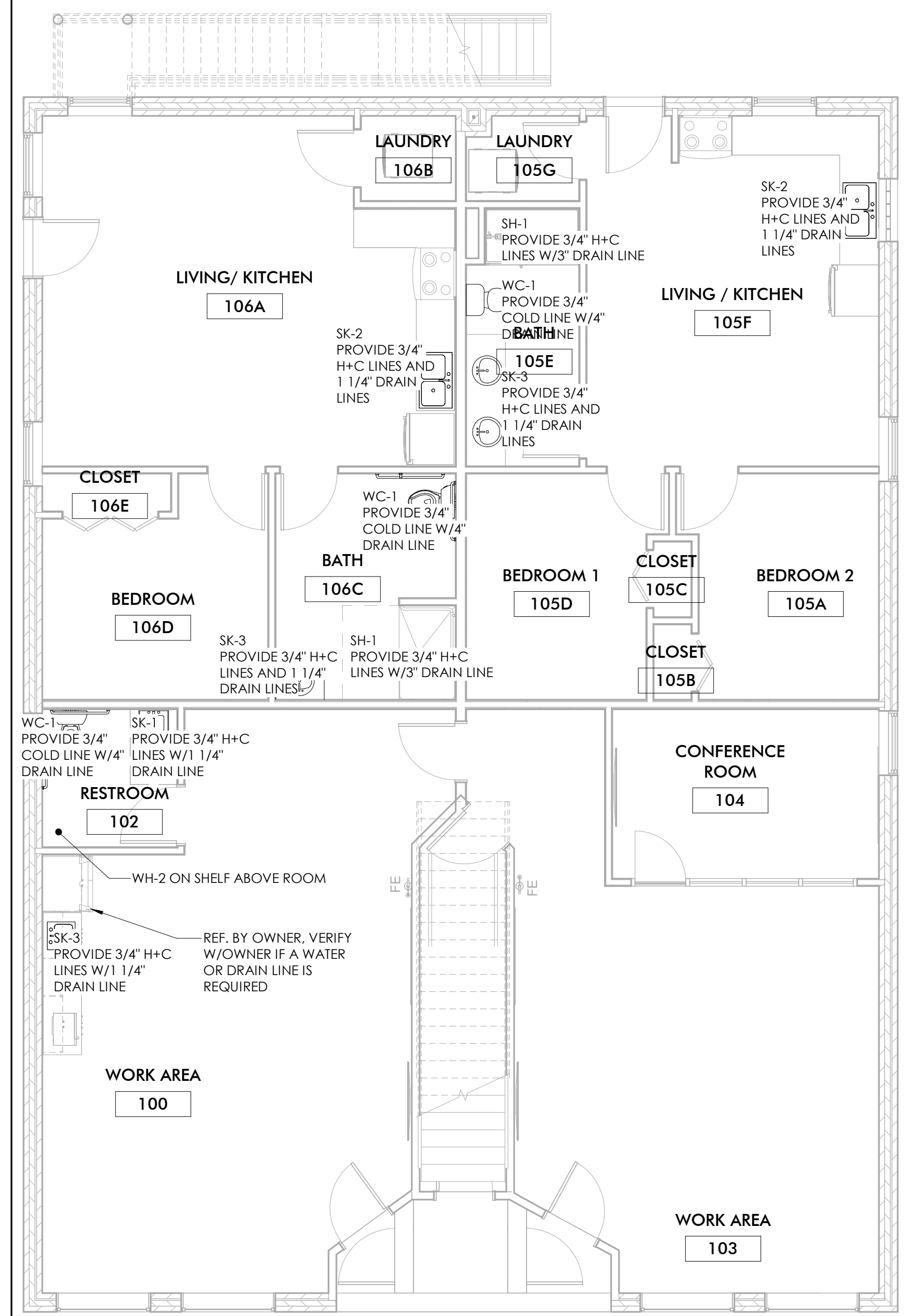
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PLUMBING PLAN  
**P102**



**1 FIRST FLOOR PLUMBING PLAN**  
 3/16" = 1'-0"

**2 SECOND FLOOR PLUMBING PLAN**  
 3/16" = 1'-0"

**FIRE SUPPRESSION NOTES**

1. FIRE SUPPRESSION PROVIDER TO PROVIDE A COMPLETELY SPRINKLED BUILDING (LIGHT HAZARD). THE FIRE SUPPRESSION SYSTEM IS TO BE DESIGNED PER THE FP #13, STATE FIRE MARSHAL, AND REQUIREMENTS OF THE LOCAL JURISDICTION.
2. THE REVISED SYSTEM IS TO REMAIN A WET SYSTEM.
3. SPRINKLER HEADS TO BE QUICK RESPONSE.
4. ALL SPRINKLER HEADS TO BE CONCEALED WITH CHROME COVER PLANTS, 155 DEGREES, 1/2" ORIFICE.
5. EXPOSED AREAS ARE TO HAVE BRASS UPRIGHT HEADS.
6. EXISTING CONDITIONS TO BE FIELD VERIFIED.
7. COORDINATE FIRE SUPPRESSION LINES WITH LIGHTS, DUCTS, CEILINGS, BULKHEADS, ETC.
8. REVIEW FIRE PROTECTION REQUIREMENTS WITH INSURANCE COMPANY.
9. THROUGH THE PERMITTING PROCESS THE FIRE SUPPRESSION SYSTEM WILL BE INSPECTED AND APPROVED BY THE FIRE MARSHAL PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT.
10. SHOP DRAWINGS ARE TO BE PROVIDED TO THE ARCHITECT AND LOCAL JURISDICTION FOR REVIEW BEFORE PURCHASING AND INSTALLING EQUIPMENT.
11. IN ADDITION TO THE FIRST AND SECOND FLOOR, THE BASEMENT IS TO BE FULLY FIRE SUPPRESSED AS WELL.

**FIRE SUPPRESSION/ALARM LEGEND**

SYM	DESCRIPTION	HEIGHT
DD	DUCT TYPE SMOKE DETECTOR	
T	DUCT DETECTOR TEST STATION	48"
V	FIRE ALARM AUDIO/VISUAL	84"
F	FIRE ALARM BELL	84"
P	FIRE ALARM PULL STATION	48"
V	FIRE ALARM VISUAL DEVICE	84"
FS	FLOW SWITCH	
HD	HEAT DETECTOR	
S	SMOKE DETECTOR	
TS	TAMPER SWITCH	
FE	FIRE EXTINGUISHER	
[Cross-hatched]	FIRE SUPPRESSION AREA	

MOUNTING HEIGHTS ARE AS GIVEN UNLESS NOTED OTHERWISE ON THE PLANS.

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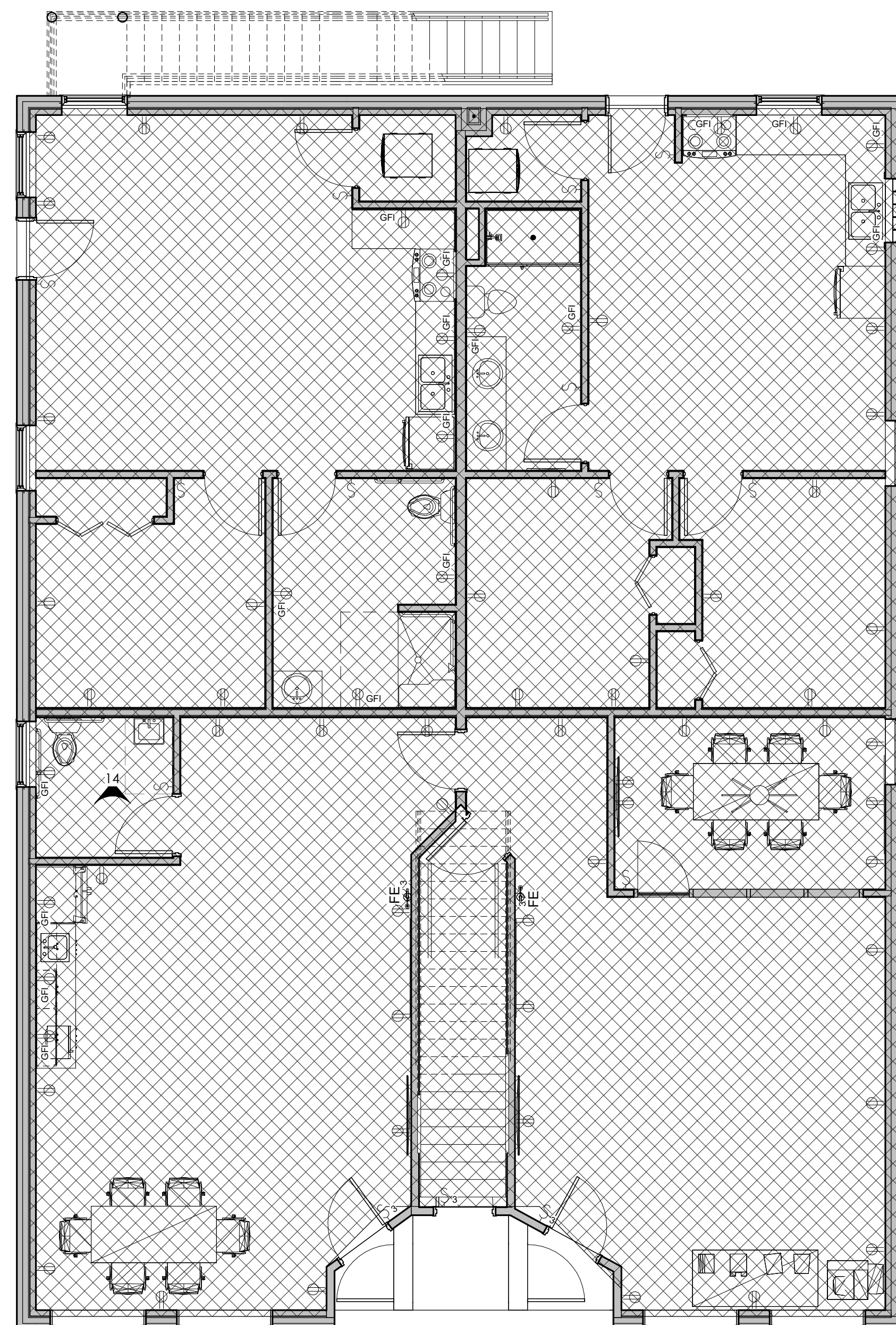
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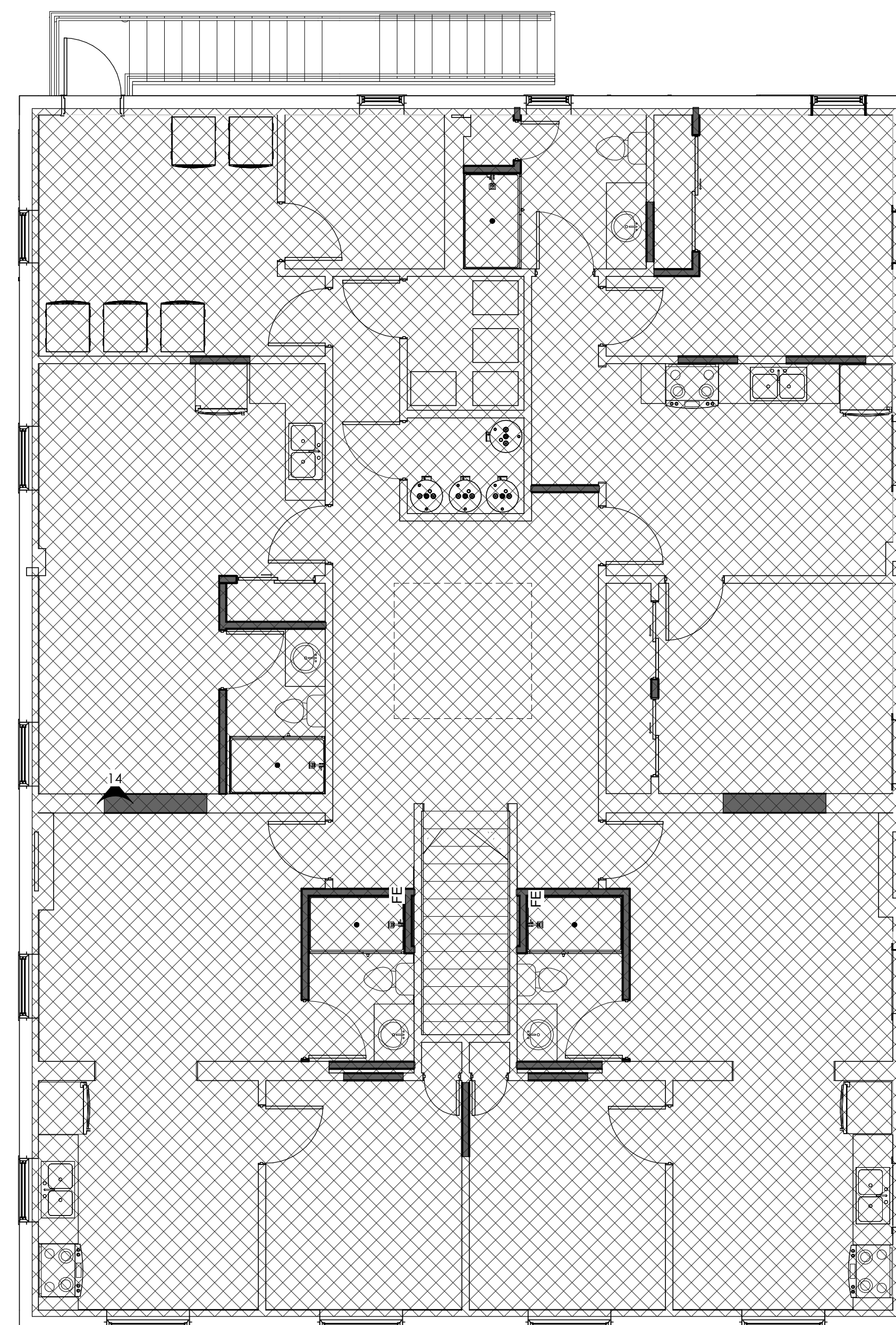
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FIRE SUPPRESSION AND ALARM PLAN AND NOTES

**FP101**



**1 FIRST FLOOR FIRE SUPPRESSION**  
 FP101 3/16" = 1'-0"



**2 SECOND FLOOR ELECTRICAL PLAN**  
 FP101 3/16" = 1'-0"