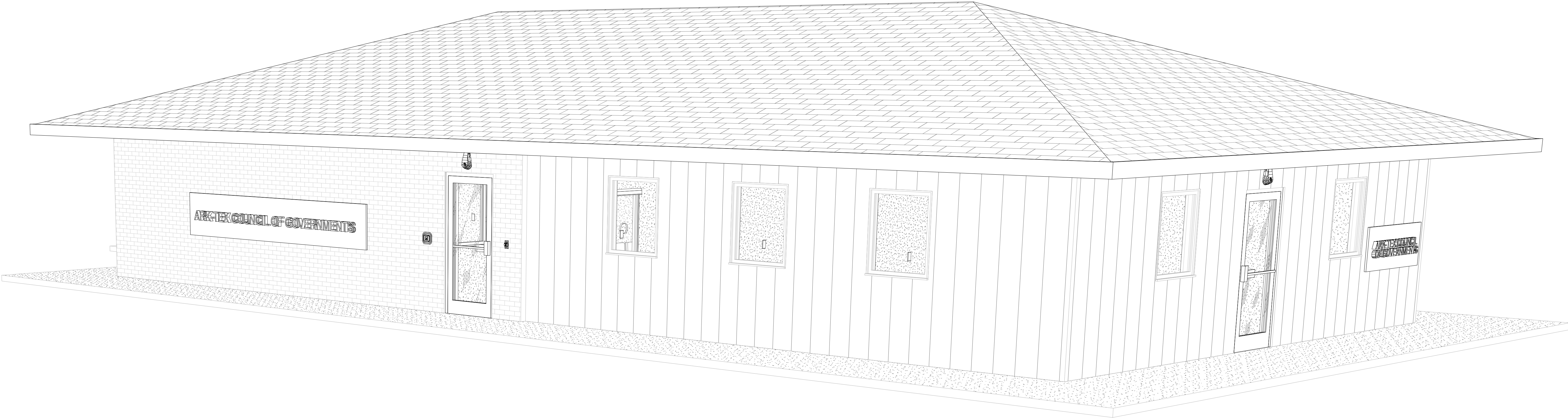


TRANSPORTATION OFFICE RENOVATION

1610 CLARKSVILLE ST. PARIS, TEXAS 75460





LARRY L. BLACKMON, INC.
ENGINEERING & BUILDING DESIGN
6716 AZLE AVENUE
FORT WORTH, TEXAS 76135
PHONE: 817-238-9801 FAX: 817-238-9804
REGISTRATION #F-002382

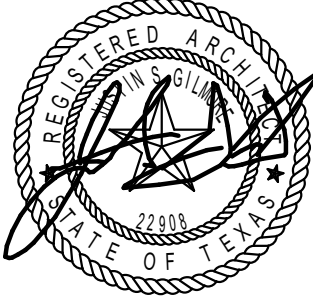
GAP Consultants, Inc.

P.O. BOX 8616
FORT WORTH, TEXAS 76124
gapcbo@gmail.com
(Office/Fax) 817.451.0399

LEVEL

5

Level 5 Architecture
Mansfield, TX | Springdale, AR
level5architecture.com



ASI #1
7/14/2022

PROJECT INFORMATION:

ARK-TEX COUNCIL OF GOVERNMENTS

TRANSPORTATION OFFICE RENOVATION

1610 CLARKSVILLE ST. PARIS, TEXAS 75460

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:
△ ASI #1 7/14/2022

SHEET NAME:

COVER SHEET

SHEET NUMBER:

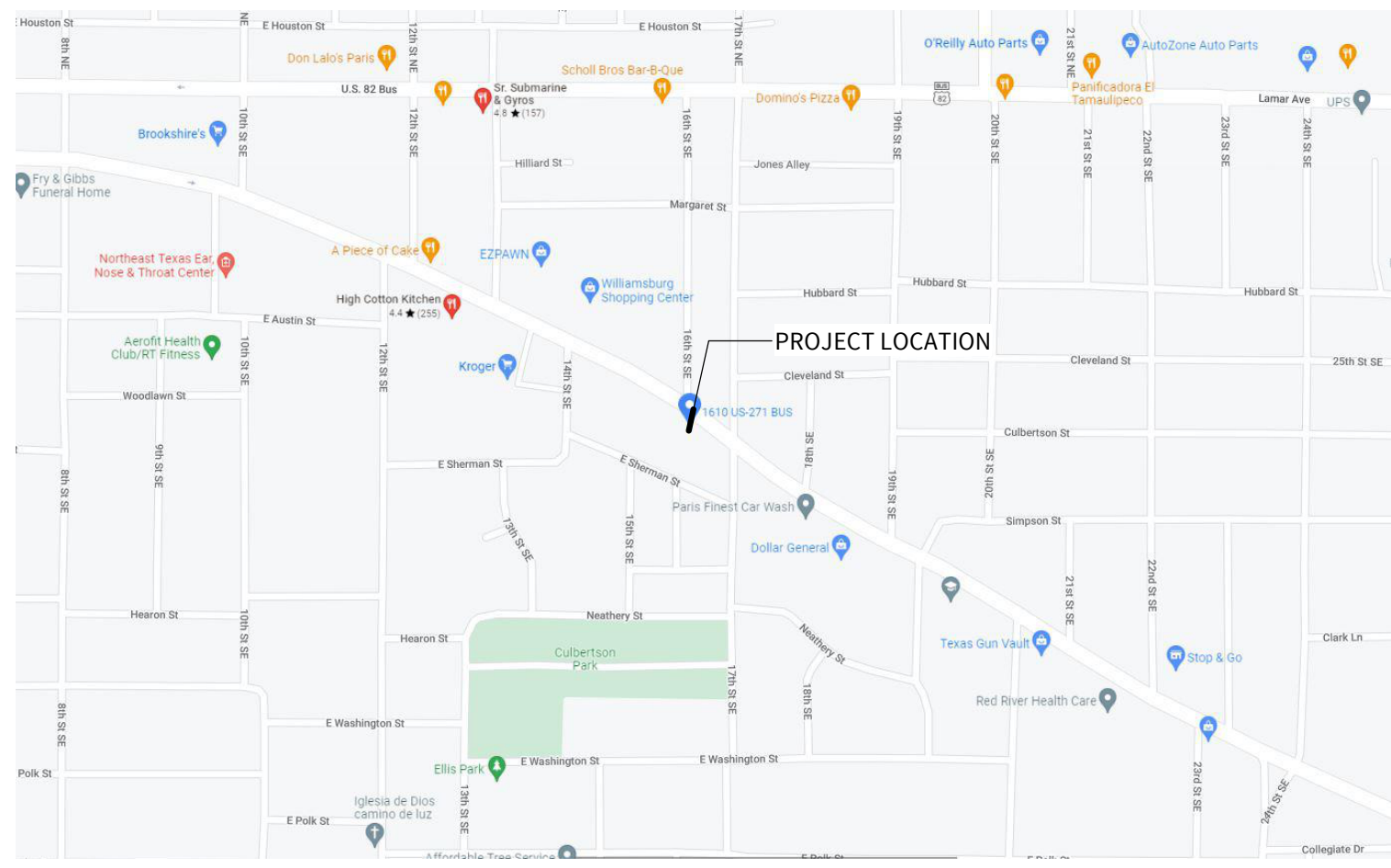
G001

7/14/2022 11:44:08 AM

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PROJECT INFORMATION

NUMBER:	21-90T	ISSUE DATE:	5/26/2022
STATUS:	PERMIT SET		
PROJECT NAME:	TRANSPORTATION OFFICE RENOVATION		
ADDRESS:	1610 CLARKSVILLE ST. PARIS, TEXAS 75460		
BUILDING NAME:	ATCOG TRANSPORTATION OFFICE		
CLIENT NAME:	ARK-TEX COUNCIL OF GOVERNMENTS		
DESCRIPTION:	RENOVATING A RESTAURANT INTO AN OFFICE		



APPLICABLE CODES & STANDARDS

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL LIFE SAFETY CODE
2014 NATIONAL ELECTRICAL CODE

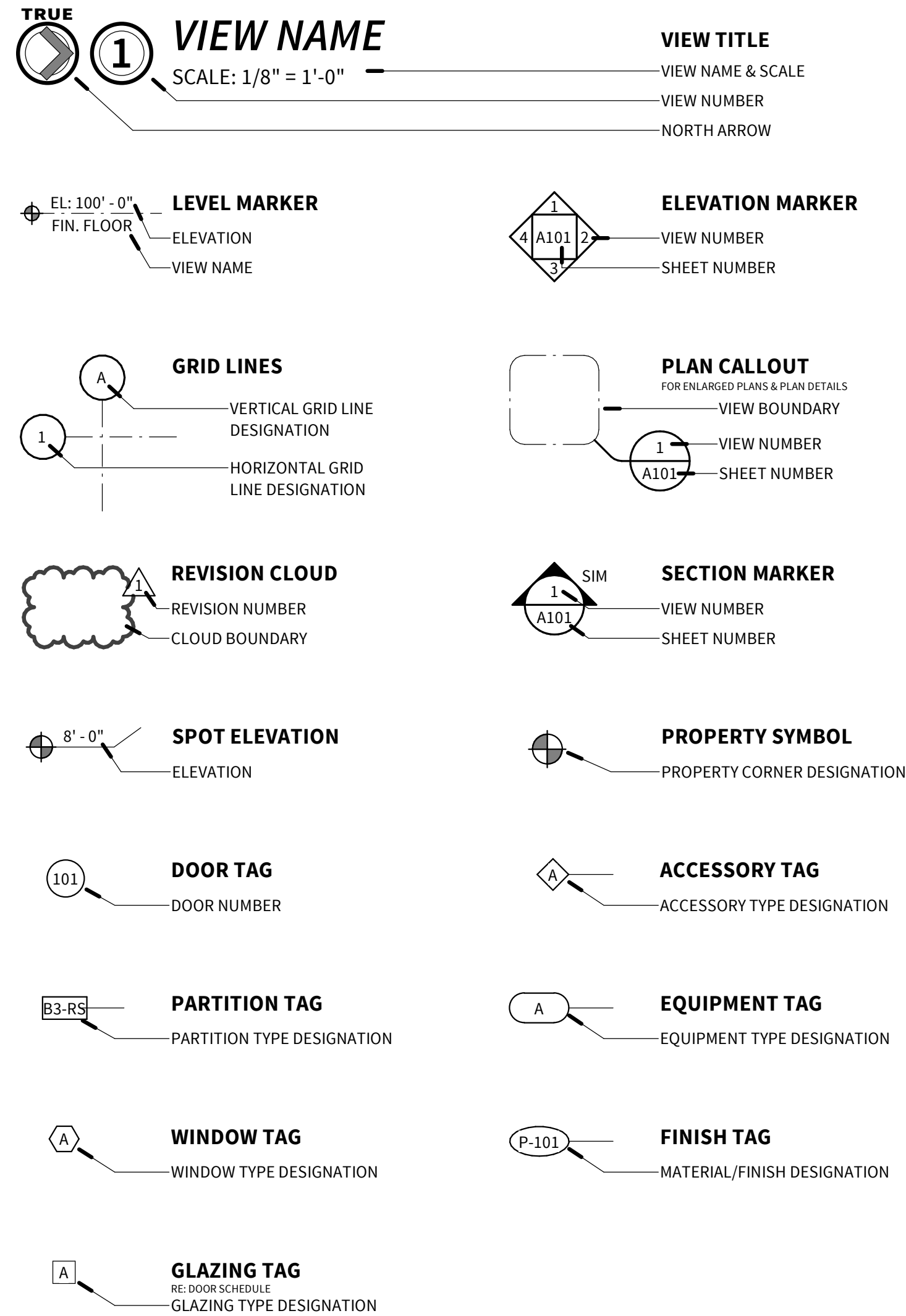
INTERNATIONAL ENERGY CODE CLASSIFICATION		FIRE RESISTANT CONSTRUCTION	
COUNTY:	LAMAR COUNTY	STRUCTURAL FRAMING:	00 HR
PROPERTY ZONE:	ZONE GR	EXTERIOR BEARING WALLS:	00 HR
CLIMATE ZONE:	ZONE 3A	INTERIOR BEARING WALLS:	00 HR
MIN. ROOF R-VALUE:	EXISTING	INTERIOR NON-BEARING WALLS:	00 HR
MIN. EXT. STUD WALL R-VALUE:	EXISTING	FLOOR CONSTRUCTION:	00 HR
		ROOF CONSTRUCTION:	00 HR

ALLOWABLE BUILDING AREA & HEIGHT

CONSTRUCTION TYPE:	TYPE VB		
OCCUPANCY CLASSIFICATION	ACTUAL	ALLOWABLE	REMARKS
Area	1,897 SF	9,000 SF	
GRAND TOTAL	1,897 SF	9,000 SF	

BUILDING HEIGHT			
IN FEET	14' - 10"	40' - 0"	PER TABLE 504.3
IN STORIES	1	2	PER TABLE 504.4

SYMBOL LEGEND



REVISION DESCRIPTIONS

ASI #1
SEE ATTACHMENT FOR REVISION DESCRIPTIONS

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G002	1	7/14/2022	GENERAL PROJECT INFORMATION
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G004			TEXAS ACCESSIBILITY STANDARDS
G005			TEXAS ACCESSIBILITY STANDARDS
G201			LIFE SAFETY PLAN
02 DEMOLITION			
D201	1	7/14/2022	DEMO PLAN
D202	1	7/14/2022	RCP DEMO PLAN
D203			ROOF DEMO PLAN

SHEET	REV	DATE	SHEET
03 ARCHITECTURAL			
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A102	1	7/14/2022	SITE DETAILS
A201	1	7/14/2022	REFERENCE PLAN
A202	1	7/14/2022	DIMENSION PLAN
A203	1	7/14/2022	REFLECTED CEILING PLAN
A301			DOOR & WINDOW SCHEDULES
A302			HEAD, JAMB & SILL DETAILS
A303			HEAD, JAMB & SILL DETAILS
A401	1	7/14/2022	EXTERIOR ELEVATIONS
A402			PARTITION TYPES
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A601	1	7/14/2022	INTERIOR ELEVATIONS
A602	1	7/14/2022	MILLWORK SECTIONS
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SHEET	REV	DATE	SHEET
04 MECHANICAL			
M1			MECHANICAL PLAN
05 ELECTRICAL			
E1			ELECTRICAL RISER
E2			LIGHTING PLAN
06 PLUMBING			
P1			PLUMBING PLAN

GENERAL PROJECT NOTES

1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY & ORDINANCES AS WELL AS ALL APPLICABLE LOCAL, STATE & FEDERAL CODES. WORK SHALL BE DONE IN A WORKMAN LIKE MANNER AS PER STANDARD BUILDING TECHNIQUES & PRACTICES
2. G.C. OR C.M. IS RESPONSIBLE FOR ALL SAFETY CONDITIONS RELATING TO JOB CONSTRUCTION & ASSURE PROTECTION FOR ANY ADJACENT OCCUPANCIES
3. G.C. OR C.M. IS TO VISIT THE SITE AND CAREFULLY INSPECT THE EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN THE DRAWINGS & EXISTING CONDITIONS MUST BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCING WORK
4. G.C. OR C.M. TO COORDINATE THE ACTIVITIES OF ALL CONSTRUCTION TEAM MEMBERS INCLUDING, BUT NOT LIMITED TO, ALL SUBCONTRACTORS, EQUIPMENT SUPPLIERS, SERVICE PROVIDERS, LOCAL CODE ENFORCEMENT OFFICIALS & JOB VALIDATION INSPECTORS
5. WORK INDICATED ON A SHEET OF A SPECIFIC DISCIPLINE IS NOT A DETERMINATION OF THE SEPARATION OF WORK BY THE CONTRACTOR & SUBCONTRACTORS. THE G.C. OR C.M. IS RESPONSIBLE FOR SEPARATION OF WORK NOT SPECIFICALLY DESIGNATED BY THE PLANS OR SPECIFICATIONS
6. ALL DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR & ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. ALL DIMENSIONS ARE FROM THE FACE OF STUDS, C.M.U. OR CONCRETE & DOES NOT INCLUDE ANY FINISH MATERIAL. EXTERIOR DIMENSIONS ARE FROM THE STEEL LINE AND DOES NOT INCLUDE ANY EXTERIOR FINISH MATERIAL
7. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUING WITH CONSTRUCTION
8. G.C. OR C.M. IS RESPONSIBLE FOR DIRECTING THE LOCATION OF ALL BLOCKING REQUIRED FOR ALL WALL HUNG CABINETS, COUNTERTOPS, SHELVES, PLUMBING FIXTURES, DISPLAY BOOTHS, ETC. & TO ENSURE ADEQUATE SUPPORT. COORDINATE WITH ARCHITECT AND/OR OWNER
9. PROVIDE FIRE EXTINGUISHERS PER NFPA-10 AND COORDINATE WITH LOCAL BUILDING AND/OR FIRE OFFICIALS UNLESS SPECIFICALLY SHOWN ON DRAWINGS
10. ALL PENETRATIONS (PIPING, CONDUIT, DUCTWORK, ETC.) THRU THE ROOF DECK SHALL BE COMPLETELY SEALED. LARGE OPENING SHALL BE SEALED WITH METAL LATH OR THIS NOTE DOES NOT APPLY TO SHAFTS PROTECTED BY CONTINUOUS FIRE RESISTANT PARTITIONS
11. ALL TRADES ARE RESPONSIBLE FOR THEIR OWN FIRE CAULKING (IF APPLICABLE)
12. ALL FINAL COLORS ARE TO BE SELECTED BY THE ARCHITECT. ALL COLORS SHOULD BE SUBMITTED TO THE G.C. OR C.M. FOR ARCHITECT'S APPROVAL
13. ALL QUESTIONS SHALL BE SUBMITTED TO THE ARCHITECT'S OFFICE THROUGH THE APPROPRIATE REQUEST FOR INFORMATION FOR (RFI) PROVIDED BY THE ARCHITECT'S OFFICE

ABBREVIATIONS

A

A/C
ADD.
A.F.F.
A.H.U.
ALUM.
AMP
APPROX.
APT.
ARCH.
AVE.
AVG.

AIR CONDITIONER
ADDITION
ABOVE FINISHED FLOOR
AIR HANDLER UNIT
ALUMINUM
AMPERAGE
APPROXIMATELY
APARTMENT
ARCHITECTURAL
AVENUE
AVERAGE

B

BSMT.
BRD.
B.O.
BTWN.
BLDG.
BLKG.
BLVD.
BTM.
B.T.U.
B.W.

BASEMENT
BOARD
BOTTOM OF
BETWEEN
BUILDING
BLOCKING
BOULEVARD
BOTTOM
BRITISH THERMAL UNIT
BOTH WAYS

C

CAB.(S)
CHK.
C.I.
CIR.
C.J.
CLG.
CLO.
CLMN.
CLR.
C.M.
C.M.U.
C.O.
CONC.
CONST.
CONT.
CPT.
C.U.
C.W.

CABINET(S)
CHECK
CAST IRON
CIRCLE
CONSTRUCTION JOINT
CEILING
CLOSET
COLUMN
CLEAR
CONSTRUCTION MANAGER
CONCRETE MASONRY UNIT
CASED OPENING
CONCRETE
CONSTRUCTION
CONTINUOUS
CARPET
CONDENSING UNIT
COLD WATER

D

DBL.
DEPT.
D.F.
D.H.
DIA.
DIM.
DIST.
DIV.
DN.
DR.
D.S.
DTL.
D.W.
DWG.(S)
DWL.
DWR.

DOUBLE
DEPARTMENT
DRINKING FOUNTAIN
DOUBLE HUNG
DIAMETER
DIMENSION
DISTANCE
DIVISION
DOWN
DOOR
DOWNSPOUT
DETAIL
DISHWASHER
DRAWING(S)
DOWEL
DRAWER

E

E
E.A.
E.J.
ELEC.
ELEV.
ENGR.
EQ.
EQPM.
E.W.

EAST
EACH
EXPANSION JOINT
ELECTRICAL
ELEVATOR
ENGINEER
EQUAL
EQUIPMENT
EACH WAY

F

FAB.
F.D.
F.E.
F.H.
FIN.
FLR.
FNDN
FRMG.
FTG.
FURN.
FXTR.

FABRICATED
FLOOR DRAIN
FIRE EXTINGUISHER
FIRE HYDRANT OR FIRE HOSE
FINISH(ED)
FLOOR(ING)
FOUNDATION
FRAMING
FOOTING
FURNITURE
FIXTURE

G

GA.
GALV.
G.C.
G.I.
GOVT.
GRD.
GYP.

GAUGE
GALVANIZED
GENERAL CONTRACTOR
GALVANIZED IRON
GOVERNMENT
GRADE
GYPSUM

H

H.B.
H.C.
HD.
HDR.
HDW.
HDWD.
H.M.
HORIZ.
H.P.
HT.
HTR.
H.V.A.C.

HOSE BIB
HANDICAPPED
HEAD
HEADER
HARDWARE
HARDWOOD
HOLLOW METAL
HORIZONTAL
HORSE POWER
HEIGHT
HEATER
HEATING, VENTILATION & AIR
CONDITIONING
HOT WATER

I

INFO.
INSUL.
INT.

INFORMATION
INSULATION
INTERIOR

J

JAN.

JANITOR(S)

K

KIT.
K.W.

KITCHEN
KILOWATT

L

LAB.
LAV.
LB.
LGTH.
LIB.
LIN. FT.
LT.
LTR.(S)
LVR.

LABORATORY
LAVATORY
POUNDS
LENGTH
LIBRARY
LINEAR FEET
LIGHT
LETTER(S)
LOUVER

M

MATL.
MAX.
M.D.F.
MDL.
MECH.
MED.
MEZZ.
MFD.
MFG.
MFR.
MIN.
MISC.
MLWK.
MTD.
MTL.

MATERIAL
MAXIMUM
MULTI DENSITY FIBER BOARD
MIDDLE
MECHANICAL
MEDICINE OR MEDICAL
MEZZANINE
MANUFACTURED
MANUFACTURING
MANUFACTURER
MINIMUM
MISCELLANEOUS
MILLWORK
MOUNTED
METAL

N

N
NATL.
N.E.C.
N.I.C.
N.O.
NOM.
N.T.S.

NORTH
NATIONAL
NATIONAL ELECTRIC CODE
NOT IN CONTRACT
NUMBER
NOMINAL
NOT TO SCALE

O

O.C.
O.H.
OPG.(S)
OPP.
OPR.
ORNA.
OVHD.

ON CENTER
OPPOSITE HAND
OPENING(S)
OPPOSITE
OPERABLE
ORNAMENTAL
OVERHEAD

P

PED.
PERF.
PERP.
P.LAM.
PLUMB.
PLYWD.
PNL.(S)
PR.
PREFAB.
PREFIN.
PROP.
P.S.I.
PT.
PTN.

PEDESTAL
PERFORATED
PERPENDICULAR
PLASTIC LAMINATE
PLUMBING
PLYWOOD
PANEL(S)
PAIR
PREFABRICATED
PREFINISHED
PROPERTY
POUNDS PER SQUARE INCH
POINT
PARTITION

Q

QTY.

QUANTITY

R

R
R.C.P.
RD.
RDR.
RDWD.
RECP.
RE
REFR.
REG.
REINF.
REQ.'D
RESIL.
REV.
R.F.I.
RM.
R.O.
R.T.U.

RADIUS
REFLECTED CEILING PLAN
ROAD
READER
REDWOOD
RECEPTACLE
REFERENCE
REFRIGERATOR
REGISTER
REINFORCED
REQUIRED
RESILIENT
REVISION
REQUEST FOR INFORMATION
ROOM
ROUGH OPENING
ROOF TOP UNIT

S

S
SECT.
SGL.
SHWR.
SIM.
S.J.
SPEC.
SPECS.
SQ.
SQ. FT.
S.S.
STD.
STL.
STFR.
STRUCT.
SURF.
SUSP.
SWR.
SYMB.
SYS.

SOUTH
SECTION
SINGLE
SHOWER
SIMILAR
SAW JOINT
SPECIFY
SPECIFICATIONS
SQUARE
SQUARE FOOT
STAINLESS STEEL
STEEL
STORE FRONT
STRUCTURE(,L)
SURFACE
SUSPENDED
SEWER
SYMBOL
SYSTEM

T

T.A.S.
TEMP.
THK.
TLT.
T.O.
T.S.
T-STAT
TYP.
T&B
T&G

TEXAS ACCESSIBILITY STANDARD
TEMPERATURE
THICK
TOILET
TOP OF
TUBE STEEL
THERMOSTAT
TYPICAL
TOP AND BOTTOM
TONGUE AND GROOVE

U

UTL.
U.N.O.

UTILITY
UNLESS NOTED OTHERWISE

V

VERT.
V.I.F.

VERTICAL
VERIFY IN FIELD

W

W
W/
W.C.
WD.
WDW.
W.L.
W.L.
W/O
W.P.
W.S.
WT.
W.W.F.

WEST
WITH
WATER CLOSET
WOOD
WINDOW
WROUGHT IRON
WIND LOAD
WITH OUT
WEATHER PROOF
WATERSTOP
WEIGHT
WELDED WIRE MESH (FABRIC)

X

X.B.

X-BRACING

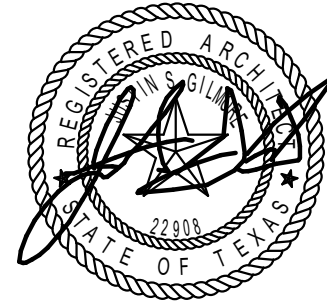
MISC.

&
@
\$
%
+/-
#

AND
AT
DOLLAR(S)
PERCENT(AGE)
PLUS/MINUS TOLERANCE
POUNDS



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ASI #1
7/14/2022

PROJECT INFORMATION:

ARK-TEX COUNCIL OF
GOVERNMENTS

TRANSPORTATION
OFFICE
RENOVATION

1610 CLARKSVILLE
ST. PARIS, TEXAS
75460

PROJECT NUMBER: 21-90T

ISSUE DATE: 5/26/2022

△ ASI #1

7/14/2022

SHEET NAME:

GENERAL PROJECT INFORMATION

SHEET NUMBER:

G002

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CHAPTER 3: BUILDING BLOCKS

302 FLOOR OR GROUND SURFACES

302.2 CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.



FIGURE 302.2 CARPET PILE HEIGHT

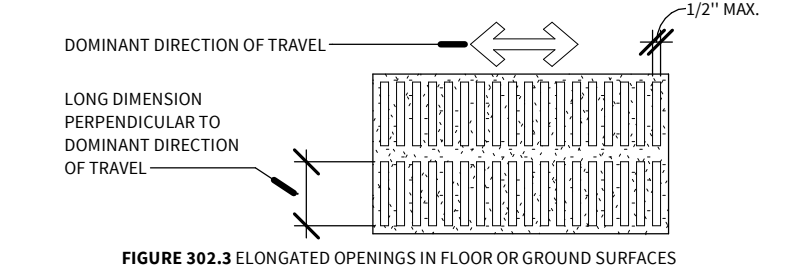


FIGURE 302.3 ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

303 CHANGES IN LEVEL

303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

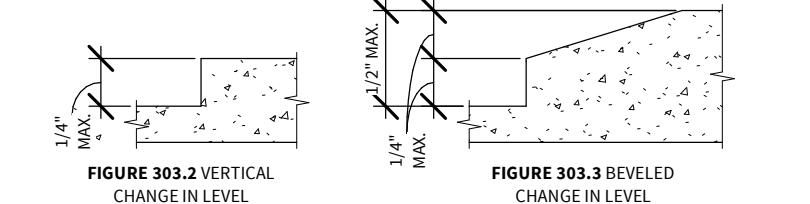


FIGURE 303.2 VERTICAL CHANGE IN LEVEL

304 TURNING SPACE

304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES DIAMETER MIN. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

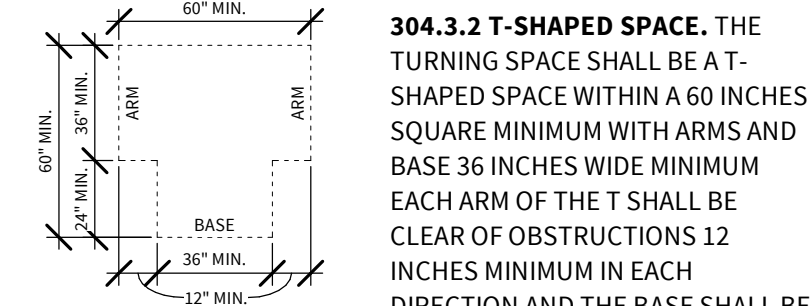


FIGURE 304.3.1 T-SHAPED TURNING SPACE

305 CLEAR FLOOR AND GROUND SPACE

305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MIN. BY 48 INCHES MIN.

305.5 POSITION. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

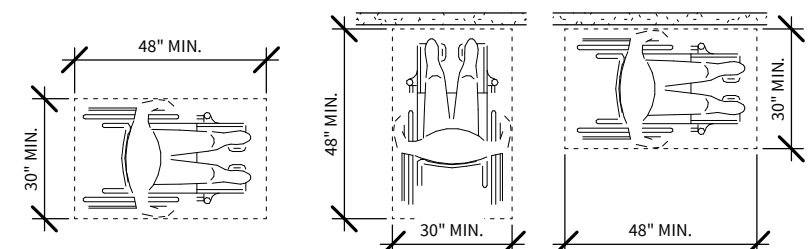


FIGURE 305.3 CLEAR FLOOR OR GROUND SPACE

305.7.1 FORWARD APPROACH. ALCOVES SHALL BE 36 INCHES WIDE MIN. WHERE THE DEPTH EXCEEDS 24 INCHES.

305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.

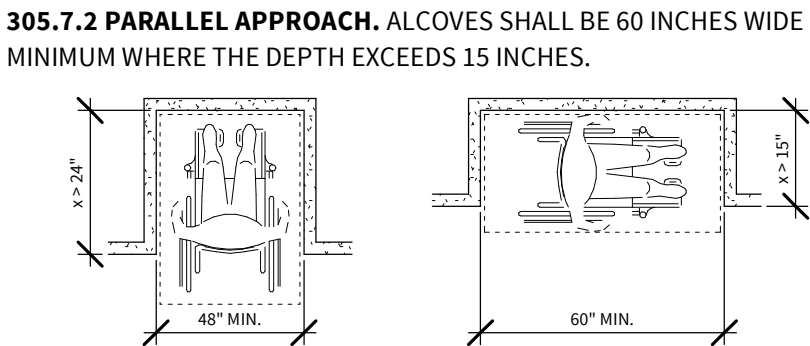


FIGURE 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

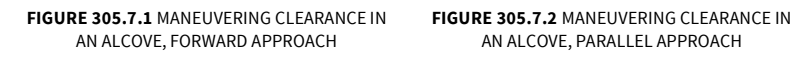


FIGURE 305.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

306 KNEE AND TOE CLEARANCE

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT.

306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES MINIMUM UNDER THE ELEMENT.

306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES WIDE MIN.

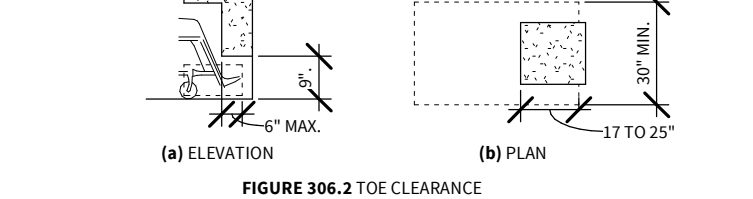


FIGURE 306.2.1 TOE CLEARANCE

306.3 KNEE CLEARANCE.

306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER 9 INCHES ABOVE THE FINISH FLOOR OR GROUND.

306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.

306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES IN HEIGHT.

306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES WIDE MIN.

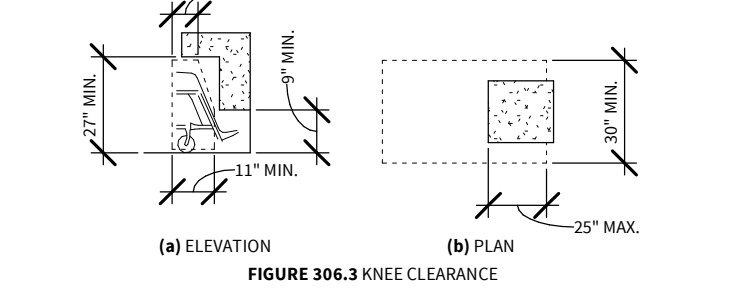


FIGURE 306.3 KNEE CLEARANCE

307 PROTRUDING OBJECTS

307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISHED FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES MAX.

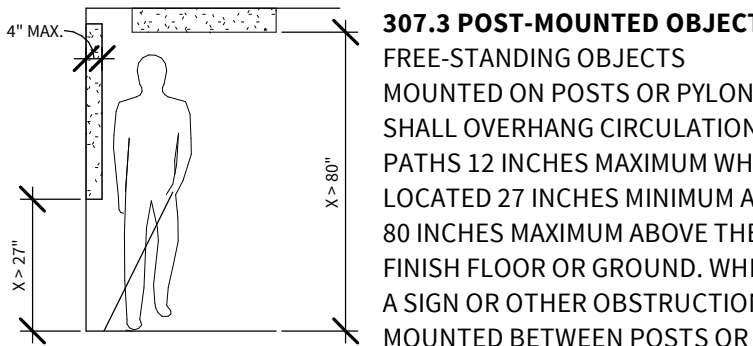


FIGURE 307.2 LIMITS OF PROTRUDING OBJECTS

GREATER THAN 12 INCHES, THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES MAXIMUM OR 80 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

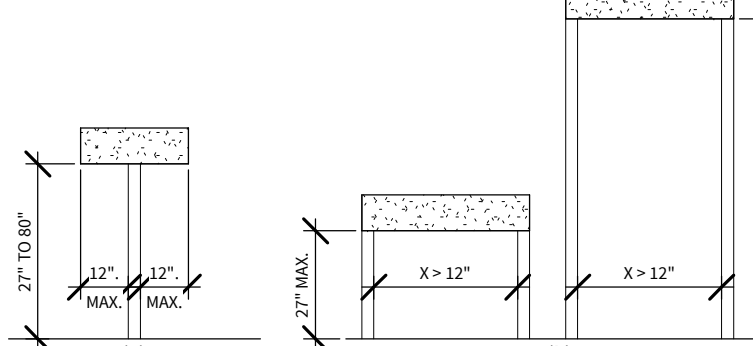


FIGURE 307.3 POST-MOUNTED PROTRUDING OBJECTS

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 IN. MIN. ABOVE THE FINISHED FLOOR OR GROUND

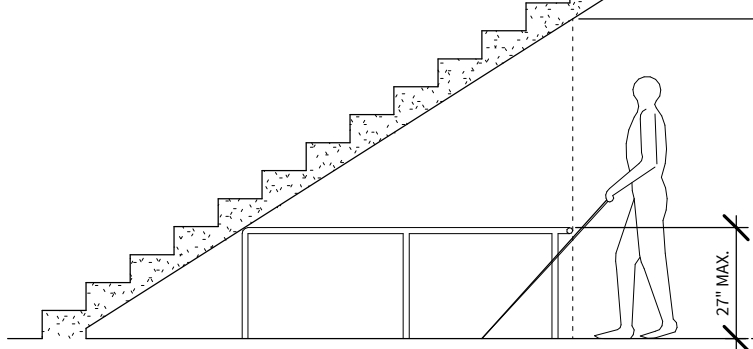


FIGURE 307.4 VERTICAL CLEARANCE

308 REACH RANGES

CHILDREN'S REACH RANGES		
FORWARD OR SIDE REACH	HIGH (MAX.)	LOW (MIN.)
AGES 3 AND 4	36"	20"
AGES 5 THROUGH 8	40"	18"
AGES 9 THROUGH 12	44"	16"

308.2 FORWARD REACH.

308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM, WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES (1120 MM) MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.

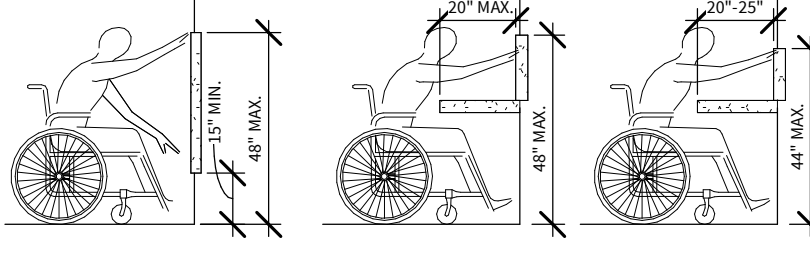


FIGURE 308.2.1 UNOBSTRUCTED FORWARD REACH

FIGURE 308.2.2 OBSTRUCTED HIGH FORWARD REACH

308.3 SIDE REACH.

308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM, WHERE THE REACH DEPTH EXCEEDS 10 INCHES THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.

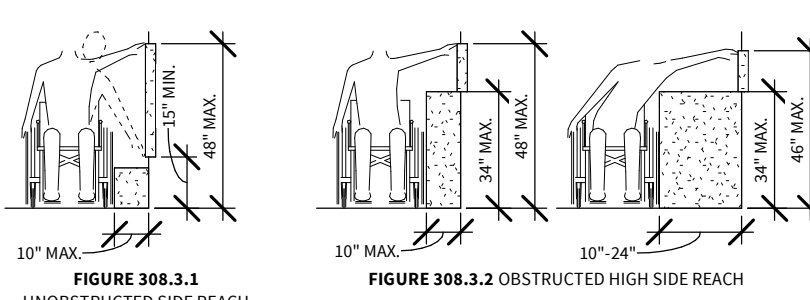


FIGURE 308.3.1 UNOBSTRUCTED SIDE REACH

FIGURE 308.3.2 OBSTRUCTED HIGH SIDE REACH

309 OPERABLE PARTS

309.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED.

309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 308.

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

CHAPTER 4: ACCESSIBLE ROUTES

402 ACCESSIBLE ROUTES

402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CH. 4

ADVISORY 402.2 COMPONENTS. WALKING SURFACES MUST HAVE RUNNING SLOPS NOT STEEPER THAN 1:20, SEE 403.3. OTHER COMPONENTS OF ACCESSIBLE ROUTES, SUCH AS RAMPS (405) AND CURB RAMPS (406) ARE PERMITTED TO BE MORE STEEPLY SLOPED

403 WALKING SURFACES

403.3 SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

403.5 CLEARANCES. WALKING SURFACES SHALL PROVIDE CLEARANCES COMPLYING WITH 403.5

EXCEPTION: WITH EMPLOYEE WORK AREAS, CLEARANCES ON COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED

403.5.1 CLEAR WIDTH. EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 IN. MIN. **EXCEPTION:** THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MINIMUM AND 36 INCHES WIDE MINIMUM

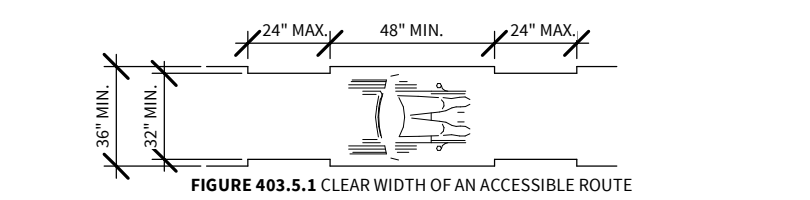


FIGURE 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN.

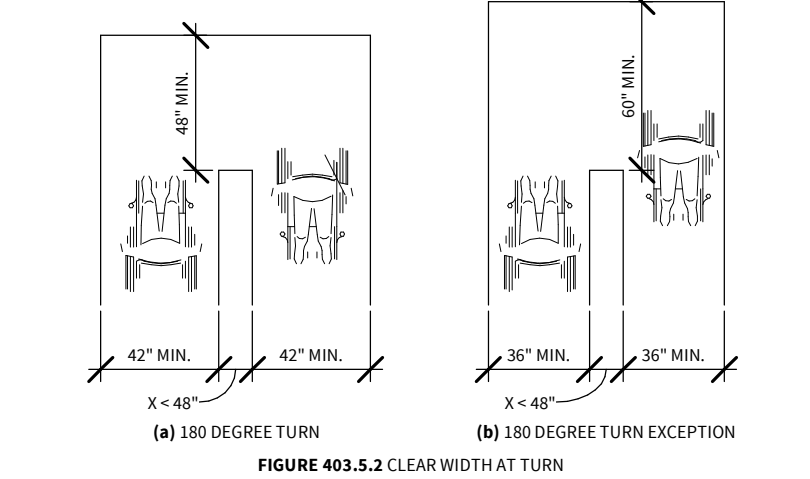


FIGURE 403.5.2 CLEAR WIDTH AT TURN

403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM.

404 DOORS, DOORWAYS, AND GATES

404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MIN. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MIN. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WITH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES

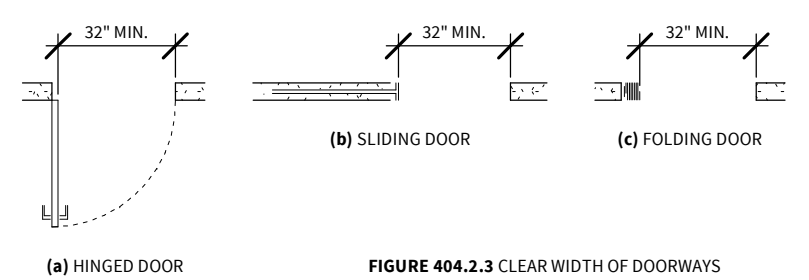


FIGURE 404.2.3 CLEAR WIDTH OF DOORWAYS

404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

404.2.4.1 SWINGING DOORS AND GATES. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCE COMPLYING WITH FIGURE 404.2.4.1

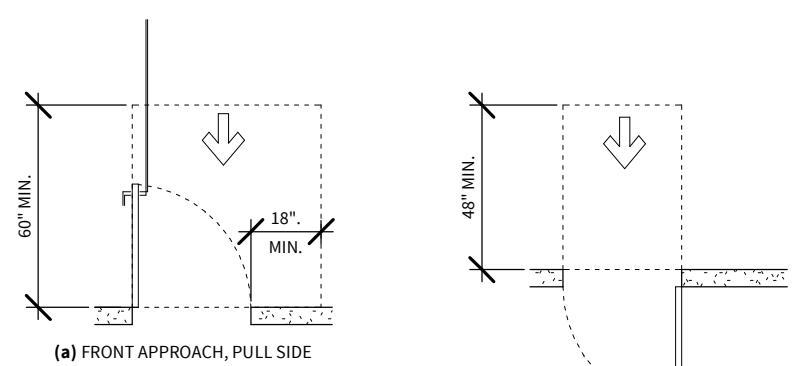


FIGURE 404.2.4.1 SWINGING DOORS AND GATES

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MIN.

404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MIN. OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE:

1. INTERIOR HINGED DOOR AND GATES: 5 LBS MAX.
2. SLIDING OR FOLDING DOORS: 5 LBS MAX.

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSE POSITION

404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 IN. OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 IN. OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

404.2.11 VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1).

404.3.2 MANEUVERING CLEARANCE.

CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY WITH 404.2.4. CLEARANCES AT AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 404.2.4.

404.3.7 REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

405 RAMPS

405.2 SLOPE. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

405.3 CROSS SLOPE. CROSS SLOPE OF RAMP SHALL NOT BE STEEPER THAN 1:48.

405.5 CLEAR WIDTH. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM.

405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30 IN. MAX.

405.7 LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP & THE BOTTOM OF EA. RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7.

405.7.1 SLOPE. LANDINGS SHALL HAVE SLOPE NO STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED.

405.7.2 WIDTH. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.

405.7.3 LENGTH. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.

405.7.4 CHANGE IN DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 60 INCHES MINIMUM.

405.7.5 DOORWAYS. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 404.2.4 AND 404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING

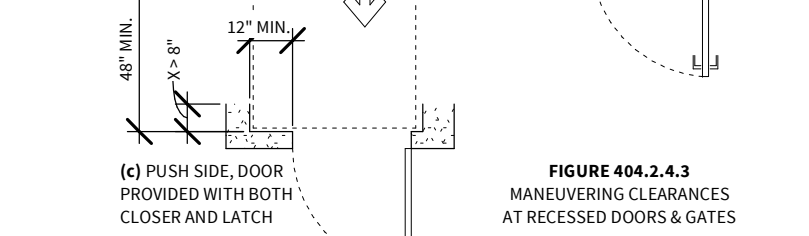


FIGURE 405.7 RAMP LANDINGS

404.2.6 DOORS IN SERIES AND GATES IN SERIES. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE.

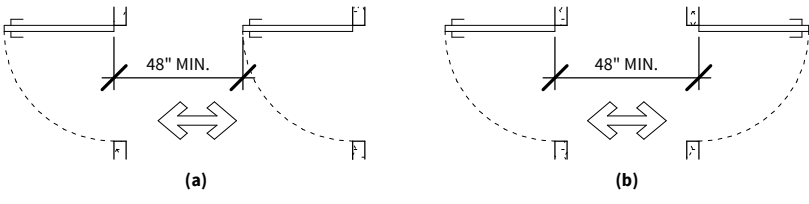


FIGURE 404.2.6 DOORS IN SERIES AND GATES IN SERIES

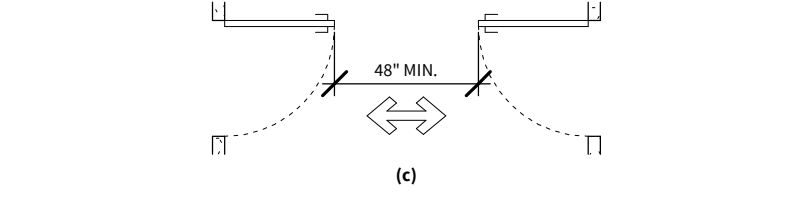


FIGURE 404.2.6 DOORS IN SERIES AND GATES IN SERIES

404.2.7 DOOR AND GATE HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MIN.

404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MIN. OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE:

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404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 IN. OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 IN. OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

404.2.11 VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1).

404.3.2 MANEUVERING CLEARANCE. CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY WITH 404.2.4. CLEARANCES AT AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 404.2.4.

404.3.7 REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

405 RAMPS

405.2 SLOPE. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

405.3 CROSS SLOPE. CROSS SLOPE OF RAMP SHALL NOT BE STEEPER THAN 1:48.

405.5 CLEAR WIDTH. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM.

405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30 IN. MAX.

405.7 LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP & THE BOTTOM OF EA. RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7.

405.7.1 SLOPE. LANDINGS SHALL HAVE SLOPE NO STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED.

405.7.2 WIDTH. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.

405.7.3 LENGTH. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.

405.7.4 CHANGE IN DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 60 INCHES MINIMUM.

405.7.5 DOORWAYS. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 404.2.4 AND 404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING

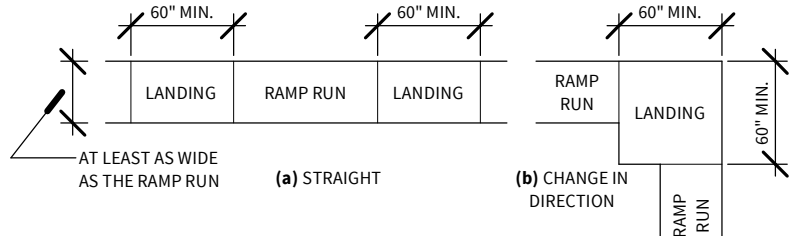


FIGURE 405.7 RAMP LANDINGS

405.8 HANDRAILS. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH 505.

405.9 EDGE PROTECTION. EDGE PROTECTION COMPLYING WITH 405.9.1 OR 405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

405.9.1 EXTENDED FLOOR OR GROUND SURFACE. THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505.

405.9.2 CURB OR BARRIER. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE.

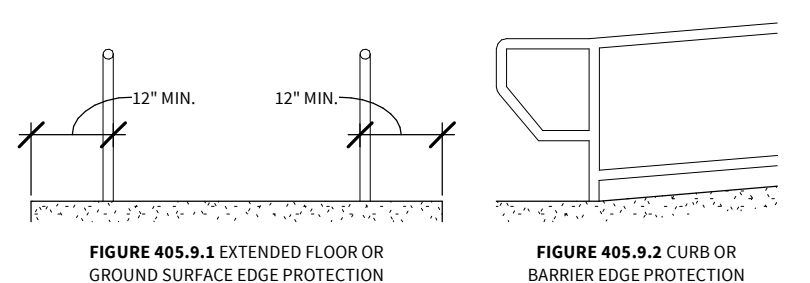


FIGURE 405.9.1 EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION

408 LIMITED-USE/LIMITED-APPLICATION ELEVATORS

408.1 GENERAL. LIMITED-USE/LIMITED-APPLICATION ELEVATORS SHALL COMPLY WITH 408 AND WITH ASME A17.1 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). THEY SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1. ELEVATOR OPERATION SHALL BE AUTOMATIC.

408.2 ELEVATOR LANDINGS. LANDINGS SERVING LIMITED-USE/LIMITED-APPLICATION ELEVATORS SHALL COMPLY WITH 408.2.

408.2.1 CALL BUTTONS. ELEVATOR CALL BUTTONS AND KEYPADS SHALL COMPLY WITH 407.2.1.

408.2.2 HALL SIGNALS. HALL SIGNALS SHALL COMPLY WITH 407.2.2.

408.2.3 HOISTWAY SIGNS. SIGNS AT ELEVATOR HOISTWAYS SHALL COMPLY WITH 407.2.3.1. 408.3 ELEVATOR DOORS. ELEVATOR HOISTWAY DOORS SHALL COMPLY WITH 408.3.

408.3.1 SLIDING DOORS. SLIDING HOISTWAY AND CAR DOORS SHALL COMPLY WITH 407.3.1 THROUGH 407.3.3 AND 408.4.1

408.3.2 SWINGING DOORS. SWINGING HOISTWAY DOORS SHALL OPEN AND CLOSE AUTOMATICALLY AND SHALL COMPLY WITH 404, 407.3.2 AND 408.3.2.

408.3.2.1 POWER OPERATION. SWINGING DOORS SHALL BE POWER-OPERATED AND SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1)

408.3.2.2 DURATION. POWER-OPERATED SWINGING DOORS SHALL REMAIN OPEN FOR 20 SECONDS MINIMUM WHEN ACTIVATED

408.4 ELEVATOR CARS. ELEVATOR CARS SHALL COMPLY WITH 408.4.

408.4.1 CAR DIMENSIONS AND DOORS. ELEVATOR CARS SHALL PROVIDE A CLEAR WIDTH 42 INCHES MINIMUM AND A CLEAR DEPTH 54 INCHES MINIMUM. CAR DOORS SHALL BE POSITIONED AT THE NARROW ENDS OF CARS AND SHALL PROVIDE 32 INCHES MINIMUM CLEAR WIDTH.

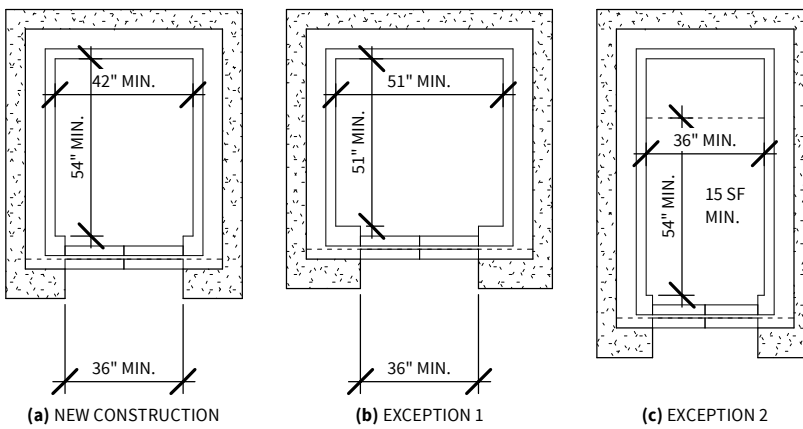


FIGURE 408.4.1 LIMITED-USE/LIMITED-APPLICATION (LULA) ELEVATOR CAR DIMENSIONS

408.4.2 FLOOR SURFACES. FLOOR SURFACES IN ELEVATOR CARS SHALL COMPLY WITH 302 AND 303.

408.4.3 PLATFORM TO HOISTWAY CLEARANCE. THE PLATFORM TO HOISTWAY CLEARANCE SHALL COMPLY WITH 407.4.3

408.4.4 LEVELING. ELEVATOR CAR LEVELING SHALL COMPLY WITH 407.4.4.

408.4.5 ILLUMINATION. ELEVATOR CAR ILLUMINATION SHALL COMPLY WITH 407.4.5.

408.4.6 CAR CONTROLS. ELEVATOR CAR CONTROLS SHALL COMPLY WITH 407.4.6. CONTROL PANELS SHALL BE CENTERED ON SIDE WALL

408.4.7 DESIGNATIONS AND INDICATORS OF CAR CONTROLS. DESIGNATIONS AND INDICATORS OF CAR CONTROLS SHALL COMPLY WITH 407.4.7

408.4.8 EMERGENCY COMMUNICATIONS. CAR EMERGENCY SIGNALING DEVICES COMPLYING WITH 407.4.9 SHALL BE PROVIDED

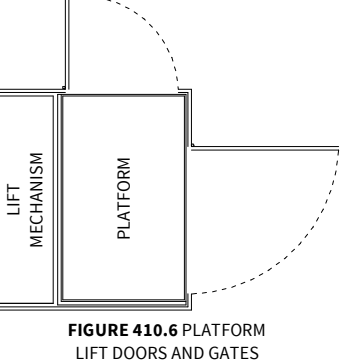
410 PLATFORM LIFTS

410.1 GENERAL. PLATFORM LIFTS SHALL COMPLY WITH ASME A18.1 (1999 EDITION OR 2003 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1) PLATFORM LIFTS SHALL NOT BE ATTENDANT-OPERATED AND SHALL PROVIDE UNASSISTED ENTRY AND EXIT FROM THE LIFT

ADVISORY 410.1 GENERAL. INCLUDED STAIRWAY CHAIRLIFTS, INCLINED AND VERTICAL PLATFORM LIFTS ARE AVAILABLE FOR SHORT DISTANCE VERTICAL TRANSPORTATION. BECAUSE AN ACCESSIBLE ROUTE REQUIRES AN 80 INCH VERTICAL CLEARANCE, CARE SHOULD BE TAKEN IN SELECTING LIFTS AS THEY MAY NOT BE EQUALLY SUITABLE FOR USE BY PEOPLE USING WHEELCHAIRS AND PEOPLE STANDING. IF A LIFT DOES NOT PROVIDE 80 INCH VERTICAL CLEARANCE IT CANNOT BE CONSIDERED PART OF AN ACCESSIBLE ROUTE IN NEW CONSTRUCTION. THE A.D.A. AND OTHER FEDERAL CIVIL RIGHTS LAWS REQUIRE THAT ACCESSIBLE FEATURES BE MAINTAINED IN WORKING ORDER SO THAT THEY ARE ACCESSIBLE TO AND USABLE BY THOSE PEOPLE THEY ARE INTENDED TO BENEFIT. BUILDING OWNERS ARE REMINDED THAT THE ASME A18 SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIRLIFTS REQUIRES ROUTINE MAINTENANCE AND INSPECTIONS. ISOLATED OR TEMPORARY INTERRUPTIONS IN SERVICE DUE TO MAINTENANCE OR REPAIRS MAY BE UNAVOIDABLE; HOWEVER, FAILURE TO TAKE PROMPT ACTION TO EFFECT REPAIRS COULD CONSTITUTE A VIOLATION OF FEDERAL LAWS AND THESE REQUIREMENTS

410.2 FLOOR SURFACES. FLOOR SURFACES IN PLATFORM LIFTS SHALL COMPLY WITH 302 & 303.

410.3 CLEAR FLOOR SPACE. CLEAR FLOOR SPACE IN PLATFORM LIFTS SHALL COMPLY WITH 305.



410.4 PLATFORM TO RUNWAY CLEARANCE. THE CLEARANCE BETWEEN THE PLATFORM SILL AND THE EDGE OF ANY RUNWAY LANDING SHALL BE 1 INCH MAXIMUM.

410.5 OPERABLE PARTS. CONTROLS FOR PLATFORM LIFTS SHALL COMPLY WITH 309.

410.6 DOORS AND GATES. PLATFORM LIFTS SHALL HAVE LOW-ENERGY POWER-OPERATED DOORS OR GATES COMPLYING WITH 404.3 DOORS SHALL REMAIN OPEN FOR 20 SECONDS MINIMUM. END DOORS AND GATES SHALL PROVIDE A CLEAR WIDTH 32 INCHES MINIMUM. SIDE DOORS AND GATES SHALL PROVIDE A CLEAR WIDTH 42 INCHES MINIMUM

EXCEPTION: PLATFORM LIFTS SERVING TWO LANDINGS MAXIMUM AND HAVING DOORS OR GATES ON OPPOSITE SIDES SHALL BE PERMITTED TO HAVE SELF-CLOSING MANUAL DOORS OR GATES

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

501 GENERAL

501.1 SCOPE. THE PROVISIONS OF CHAPTER 5 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT

502 PARKING SPACES

502.1 GENERAL. CAR AND VAN PARKING SPACES SHALL COMPLY WITH 502. WHERE PARKING SPACES ARE MARKED WITH LINES, WIDTH MEASUREMENTS OF PARKING SPACES AND AISLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS

EXCEPTION: WHERE PARKING SPACES OR ACCESS AISLES ARE NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESS AISLE MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE PARKING SPACE OR ACCESS AISLE

502.2 VEHICLE SPACES. CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES WIDE MINIMUM. SPACES SHALL BE MARKED WITH TO DEFINE THE WIDTH AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3

EXCEPTION: VAN PARKING SPACES SHALL BE PERMITTED TO BE 96 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES WIDE MINIMUM

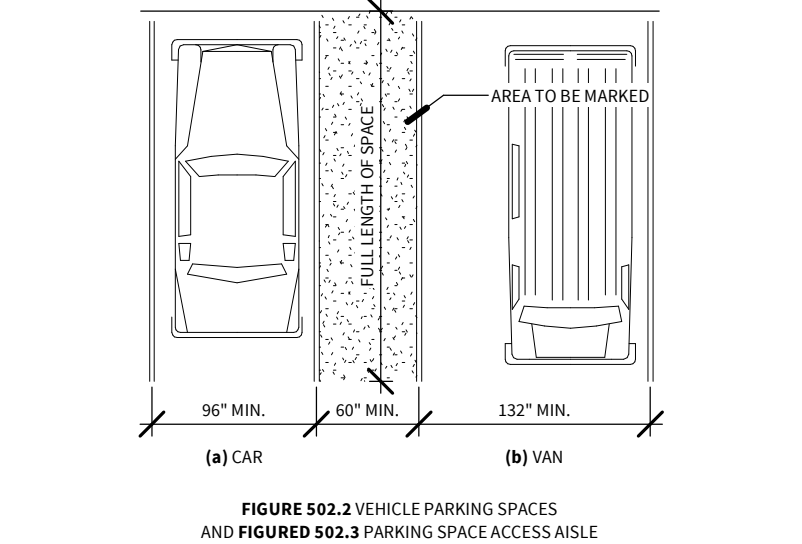


FIGURE 502.2 VEHICLE PARKING SPACES AND ACCESS AISLE

502.3 ACCESS AISLE. ACCESS AISLES SERVING PARKING SPACES SHALL COMPLY WITH 502.3. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE.

502.3.1 WIDTH. ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES WIDE MINIMUM

502.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE.

502.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

502.3.4 LOCATION. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.

502.4 FLOOR OR GROUND SURFACES. PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED

502.4 FLOOR OR GROUND SURFACES. PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED.

502.5 VERTICAL CLEARANCE. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 98 INCHES MINIMUM.

502.6 IDENTIFICATION. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

502.7 RELATIONSHIP TO ACCESSIBLE ROUTES. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, CANNOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.

503 PASSENGER LOADING ZONES

503.2 VEHICLE PULL-UP SPACE. PASSENGER LOADING ZONES SHALL PROVIDE A VEHICULAR PULL-UP SPACE 96 INCHES WIDE MINIMUM AND 20 FEET LONG MINIMUM.

503.3 ACCESS AISLE. PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYING WITH 503 ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.

503.3.1 WIDTH. ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60 INCHES WIDE MINIMUM

503.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE.

503.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

503.4 FLOOR AND GROUND SURFACES. VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE VEHICLE PULL-UP SPACE THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

503.5 VERTICAL CLEARANCE. VEHICLE PULL-UP SPACES, ACCESS AISLES SERVING THEM, AND A VEHICULAR ROUTE FROM AN ENTRANCE TO THE PASSENGER LOADING ZONE, AND FROM THE PASSENGER LOADING ZONE TO A VEHICULAR EXIT SHALL PROVIDE A VERTICAL CLEARANCE OF 114 INCHES MINIMUM.

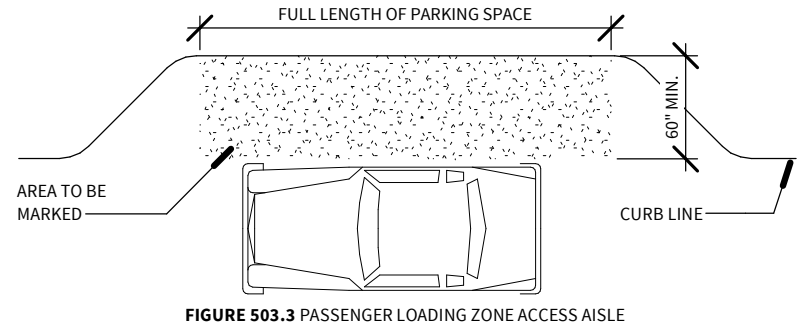


FIGURE 503.3 PASSENGER LOADING ZONE ACCESS AISLE

504 STAIRWAYS

504.1 GENERAL. STAIRS THAT ARE PART OF THE MEANS OF EGRESS IS REQUIRED TO COMPLY WITH 504

504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM. TREADS SHALL BE 11 INCHES DEEP MINIMUM.

504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED.

504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

504.5 NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 IN. MAX. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAX. FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2 IN. MAX. OVER THE TREAD BELOW.

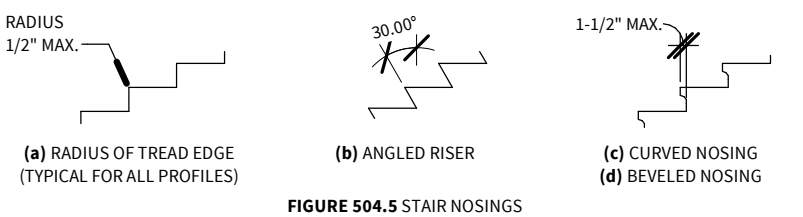


FIGURE 504.5 STAIR NOSINGS

504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH 505.

504.7 WET CONDITIONS. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

505 HANDRAILS

505.1 GENERAL. HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH 403, REQUIRED AT RAMPS COMPLYING WITH 405, & REQUIRED AT STAIRS COMPLYING WITH 504 SHALL COMPLY WITH 505

ADVISORY: 505.1 GENERAL. HANDRAILS ARE REQUIRED ON RAMP RUNS WITH A RISE GREATER THAN 6 INCHES (SEE 405.8) AND ON CERTAIN STAIRWAYS (SEE 504) HANDRAILS ARE NOT REQUIRED ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20 HOWEVER, HANDRAILS ARE REQUIRED TO COMPLY WITH 505 WHEN THEY ARE PROVIDED ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20 (SEE 403.6) SECTION 505.2, 505.3, AND 505.10 DO NOT APPLY TO HANDRAILS PROVIDED ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20 AS THESE SECTIONS ONLY REFERENCE REQUIREMENTS FOR RAMPS AND STAIRS

505.2 WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.

505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

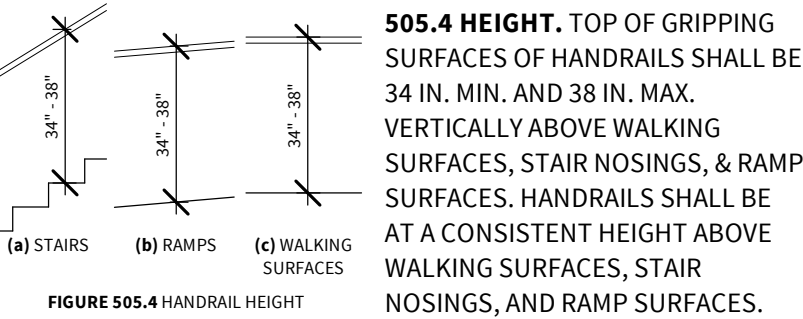


FIGURE 505.4 HANDRAIL HEIGHT

505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 IN. MIN. AND 38 IN. MAX. VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, & RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

505.5 CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2" MINIMUM

505.6 GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH, WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

505.7.1 CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 IN. MIN. AND 2 IN. MAX.

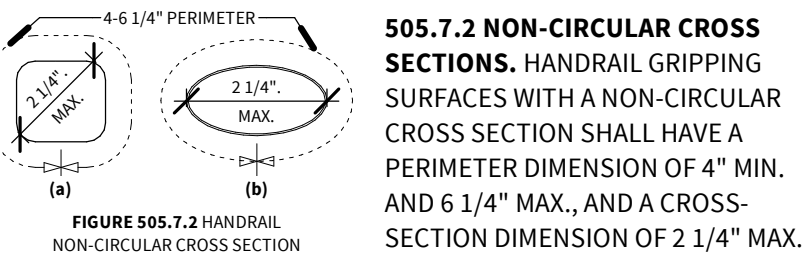


FIGURE 505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION

505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4" MIN. AND 6 1/4" MAX., AND A CROSS-SECTION DIMENSION OF 2 1/4" MAX.

505.8 SURFACES. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN FITTINGS.

505.10 HANDRAIL EXTENSIONS. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH 505.10.

505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND HORIZ. ABOVE THE LANDING FOR 12" MIN.

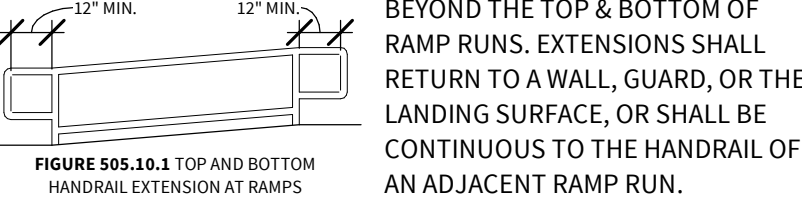


FIGURE 505.10.1 TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

505.10.2 TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

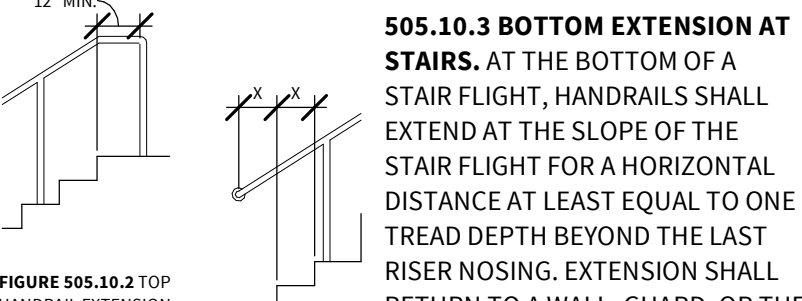


FIGURE 505.10.2 TOP HANDRAIL EXTENSION AT STAIRS

505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 DRINKING FOUNTAINS

602.2 CLEAR FLOOR SPACE. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED

EXCEPTION: A PARALLEL APPROACH COMPLYING WITH 305 SHALL BE PERMITTED AT UNITS FOR CHILDREN'S USE WHERE THE SPOUT IS 30 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND AND IS 3 1/2 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS

602.3 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY W/ 309.

602.4 SPOUT HEIGHT. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND

602.5 SPOUT LOCATION. THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT (WALL OR STAND) AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS

602.6 WATER FLOW. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.

602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603 TOILET AND BATHING ROOMS

603.2 CLEARANCES. CLEARANCES SHALL COMPLY WITH 603.2.

603.2.1 TURNING SPACE. TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN THE ROOM.

603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP

603.2.3 DOOR SWING. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.

603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603.4 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.2 LOCATION. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

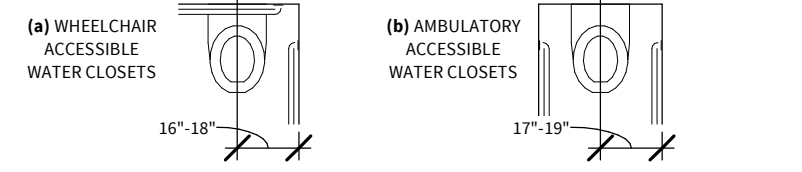


FIGURE 604.2 WATER CLOSET LOCATION

604.3.1 SIZE. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 IN. MIN. MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 IN. MIN. MEASURED PERPENDICULAR FROM THE REAR WALL

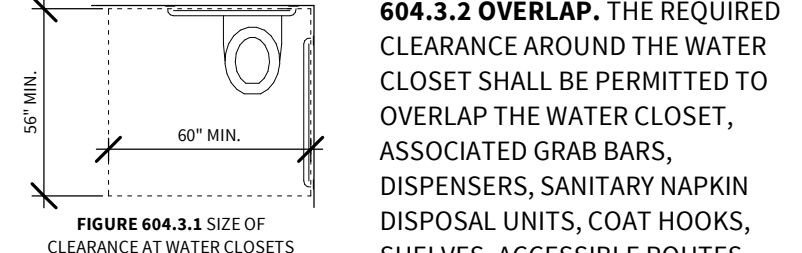


FIGURE 604.3.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.5 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL.

604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.



FIGURE 604.5.1 SIDE WALL GRAB BAR AT WATER CLOSETS

604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE.

604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2.

604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

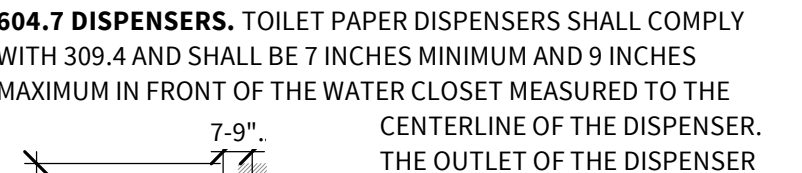


FIGURE 604.7 DISPENSER OUTLET LOCATION

604.8 TOILET COMPARTMENTS. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL MEET THE REQUIREMENTS OF 604.8.1 AND 604.8.3. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH 603. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2 AND 604.8.3

604.8.1 WHEELCHAIR ACCESSIBLE COMPARTMENTS. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.1

604.8.1.1 SIZE. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.

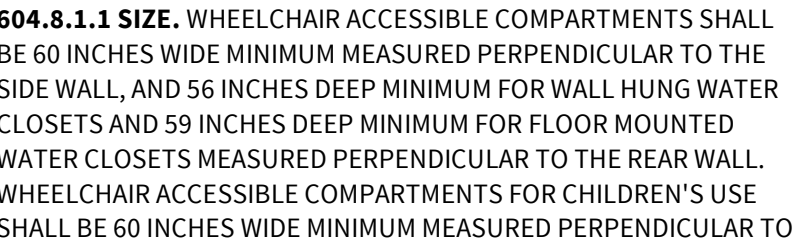
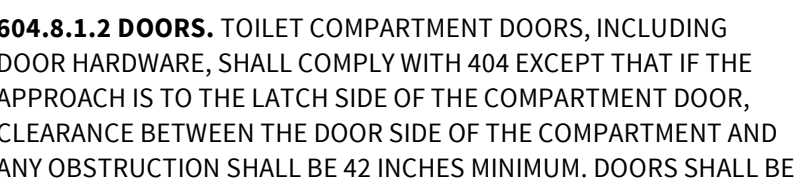


FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

604.8.1.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES MINIMUM. DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

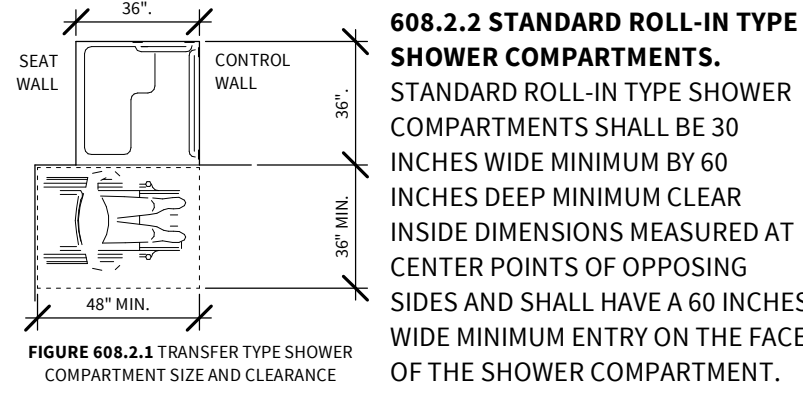
604.8.1.3 APPROACH. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET



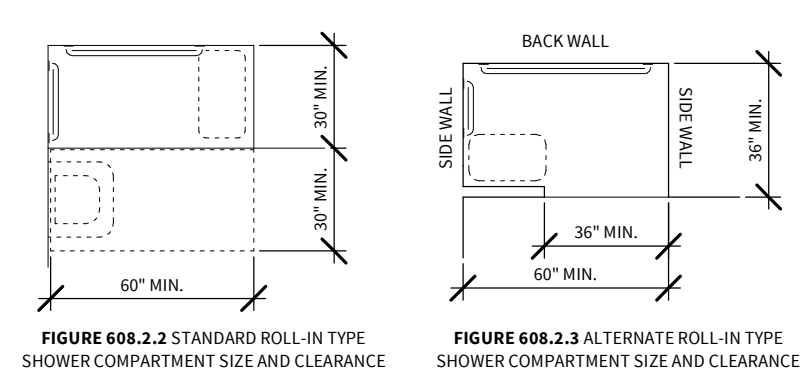
608 SHOWER COMPARTMENTS

608.2 SIZE AND CLEARANCES FOR SHOWER COMPARTMENTS. SHOWER COMPARTMENTS SHALL HAVE SIZES AND CLEARANCES COMPLYING WITH 608.2.

608.2.1 TRANSFER TYPE SHOWER COMPARTMENTS. TRANSFER TYPE SHOWER COMPARTMENTS SHALL BE 36 INCHES BY 36 INCHES CLEAR INSIDE DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES AND SHALL HAVE A 36 INCH WIDE MINIMUM ENTRY ON THE FACE OF THE SHOWER COMPARTMENT. CLEARANCE OF 36 INCHES WIDE MINIMUM BY 48 INCHES LONG MINIMUM MEASURED FROM THE CONTROL WALL SHALL BE PROVIDED.

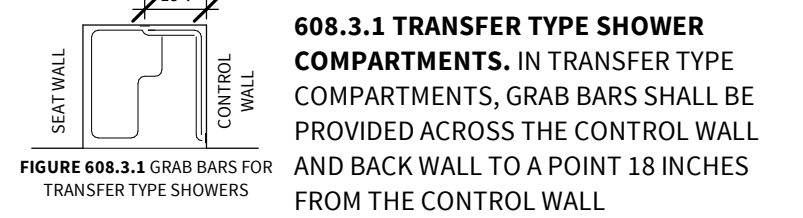


608.2.2.1 CLEARANCE. A 30 INCH WIDE MINIMUM BY 60 INCH LONG MINIMUM CLEARANCE SHALL BE PROVIDED ADJACENT TO THE OPEN FACE OF THE SHOWER COMPARTMENT.

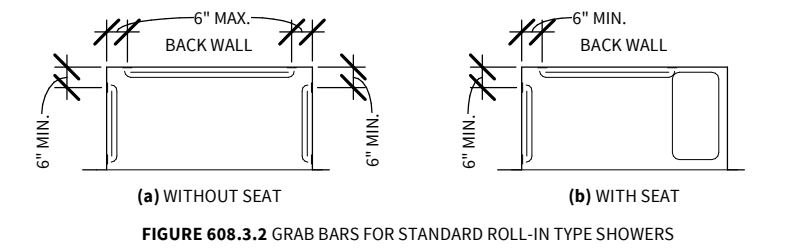


608.2.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 36 INCHES WIDE AND 60 INCHES DEEP MINIMUM CLEAR INSIDE DIMENSIONS MEASURED AT CENTER POINTS OF OPPOSING SIDES. A 36 INCH WIDE MINIMUM ENTRY SHALL BE PROVIDED AT ONE END OF THE LONG SIDE OF THE COMPARTMENT.

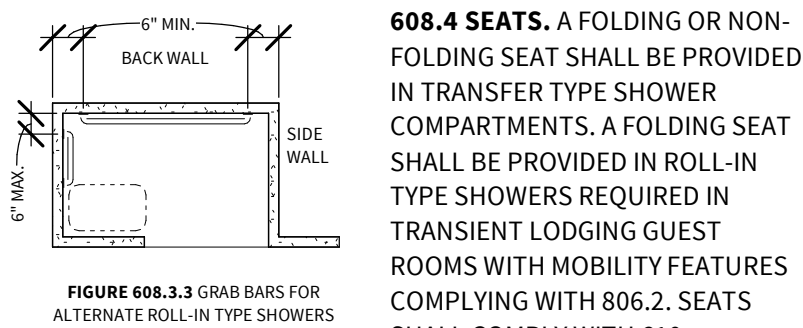
608.3 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609 AND SHALL BE PROVIDED IN ACCORDANCE WITH 608.3. WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE THE FINISH FLOOR.



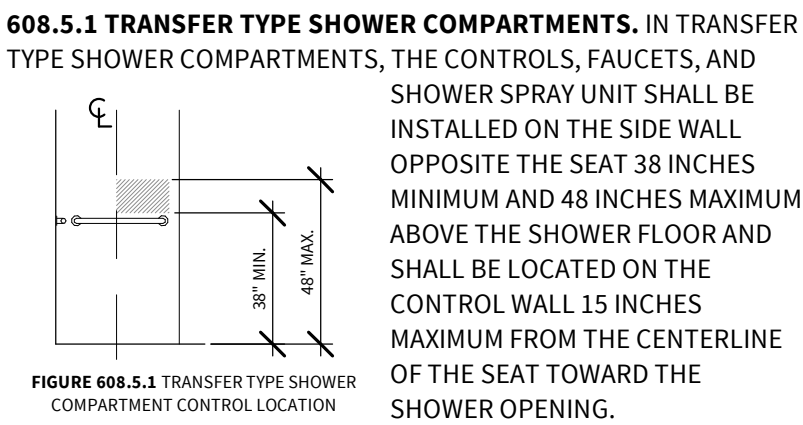
608.3.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. WHERE A SEAT IS PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL OPPOSITE THE SEAT. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. WHERE A SEAT IS NOT PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THREE WALLS. GRAB BARS SHALL BE INSTALLED 6 INCHES MAXIMUM FROM ADJACENT WALLS.



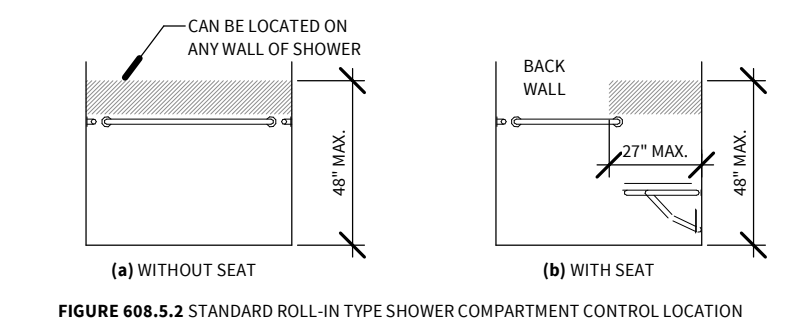
608.3.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL FARTEST FROM THE COMPARTMENT ENTRY. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. GRAB BARS SHALL BE INSTALLED 6 INCHES MAXIMUM FROM ADJACENT WALLS.



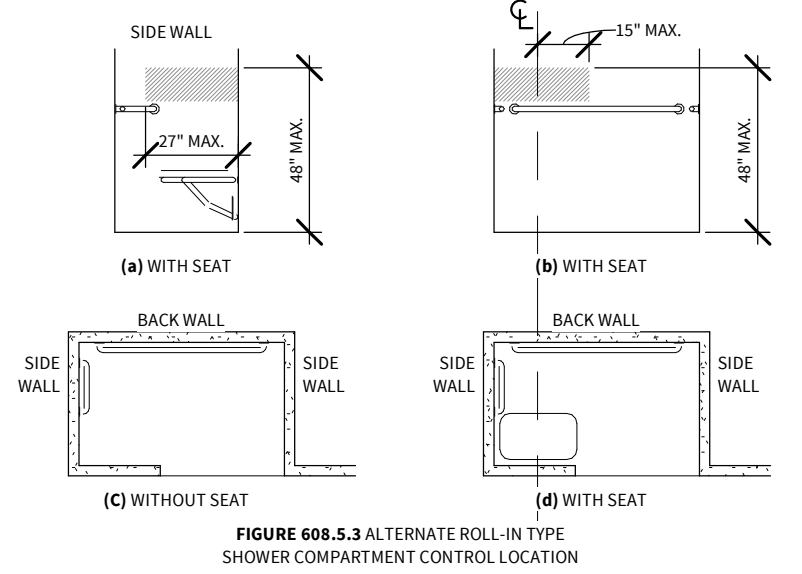
608.5 CONTROLS. CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL COMPLY WITH 309.4.



608.5.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE BACK WALL ADJACENT TO THE SEAT WALL AND SHALL BE LOCATED 27 INCHES (685 MM) MAXIMUM FROM THE SEAT WALL.



608.5.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. IN ALTERNATE ROLL-IN TYPE SHOWER BAR, BUT NO HIGHER THAN 48 IN. ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ON THE SIDE WALL SHOWER. SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL FARTEST FROM THE COMPARTMENT ENTRY.



608.6 SHOWER SPRAY UNIT AND WATER. A SHOWER SPRAY UNIT WITH A HOSE 59 INCHES LONG MINIMUM THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS. SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120°F (49°C) MAXIMUM.

608.7 THRESHOLDS. THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2 INCH HIGH MAXIMUM IN ACCORDANCE WITH 303. IN TRANSFER TYPE SHOWER COMPARTMENTS, THRESHOLDS 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED, ROUNDED, OR VERTICAL.

609 GRAB BARS

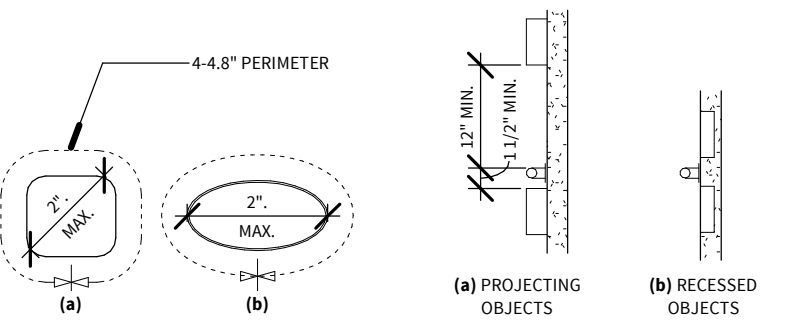
608.8 SHOWER ENCLOSURES. ENCLOSURES FOR SHOWER COMPARTMENTS SHALL NOT OBSTRUCT CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

609.1 GENERAL. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY WITH 609.

609.2 CROSS SECTION. GRAB BARS SHALL HAVE A CROSS SECTION COMPLYING WITH 609.2.1 OR 609.2.2.

609.2.1 CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES MAX.

609.2.2 NON-CIRCULAR CROSS SECTION. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.



609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE COMPLYING WITH 604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH 607.4.1.1 OR 607.4.2.1.

609.5 SURFACE HAZARDS. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

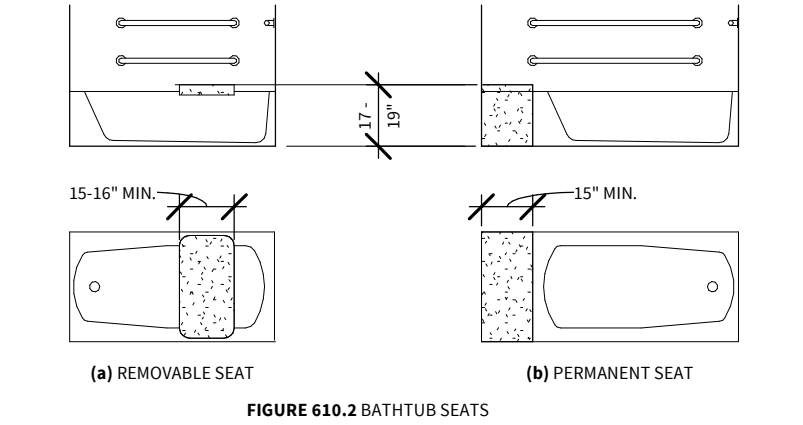
609.6 FITTINGS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

609.7 INSTALLATION. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE.

609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112 N) IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

610 SEATS

610.2 BATHTUB SEATS. THE TOP OF BATHTUB SEATS SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FINISH FLOOR. THE DEPTH OF A REMOVABLE IN-TUB SEAT SHALL BE 15 INCHES MINIMUM AND 16 INCHES MAXIMUM. THE SEAT SHALL BE CAPABLE OF SECURE PLACEMENT. PERMANENT SEATS AT THE HEAD END OF THE BATHTUB SHALL BE 15 INCHES DEEP MINIMUM AND SHALL EXTEND FROM THE BACK WALL TO OR BEYOND THE OUTER EDGE OF THE BATHTUB.



610.3 SHOWER COMPARTMENT SEATS. WHERE A SEAT IS PROVIDED IN A STANDARD ROLL-IN SHOWER COMPARTMENT, IT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. WHERE A SEAT IS PROVIDED IN AN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT, IT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE FRONT WALL OPPOSITE THE BACK WALL, AND SHALL EXTEND FROM THE ADJACENT SIDE WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. IN TRANSFER-TYPE SHOWERS, THE SEAT SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. THE TOP OF THE SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FINISH FLOOR. SEATS SHALL COMPLY WITH 310.3.2

610.3.1 RECTANGULAR SEATS. THE REAR EDGE OF A RECTANGULAR SEAT SHALL BE 2 1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES (380 MM) MINIMUM AND 16 INCHES MAXIMUM FROM THE SEAT WALL. THE SIDE EDGE OF THE SEAT SHALL BE 1 1/2 INCHES MAXIMUM FROM THE ADJACENT WALL.

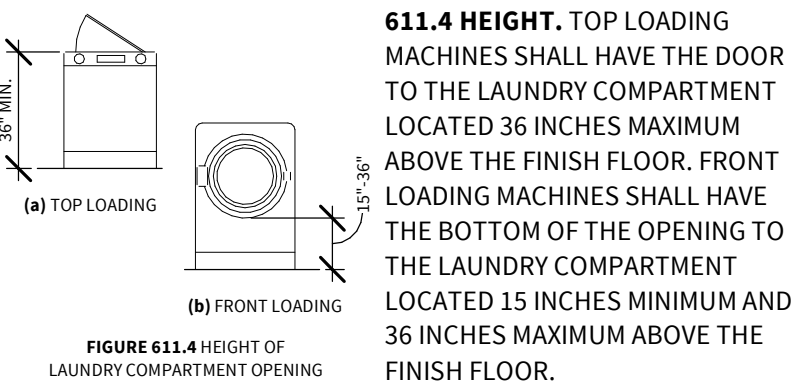
610.3.2 L-SHAPED SEATS. THE REAR EDGE OF AN L-SHAPED SEAT SHALL BE 2 1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES (380 MM) MINIMUM AND 16 INCHES MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1 1/2 INCHES MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14 INCHES MINIMUM AND 15 INCHES MAXIMUM FROM THE WALL. THE END OF THE "L" SHALL BE 22 INCHES MINIMUM AND 23 INCHES MAXIMUM FROM THE MAIN SEAT WALL.

610.4 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112 N) IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

611 WASHING MACHINES AND CLOTHES DRYERS

611.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR PARALLEL APPROACH SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL BE CENTERED ON THE APPLANCE.

611.3 OPERABLE PARTS. OPERABLE PARTS, INCLUDING DOORS, LINT SCREENS, AND DETERGENT AND BLEACH COMPARTMENTS SHALL COMPLY WITH 309.



612 SAUNAS AND STEAM ROOMS

612.2 BENCH. WHERE SEATING IS PROVIDED IN SAUNAS AND STEAM ROOMS, AT LEAST ONE BENCH SHALL COMPLY WITH 903. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED BY 903.2.

612.3 TURNING SPACE. A TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN SAUNAS AND STEAM ROOMS

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 FIRE ALARM SYSTEMS

702.1 GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (1999 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1), EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION)

703 SIGNS

703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4.

703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND.

703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE.

703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.

703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.

703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.

703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4.

703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOME OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

703.3.2 POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5.

703.5.1 FINISH AND CONTRAST. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH.

703.5.3 STYLE. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.

703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

703.5.5 CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40 INCHES (1015 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

703.5.8 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.

703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6.

703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.

703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.

703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2, 703.3 AND 703.4.

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.

703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.

704 TELEPHONES

704.1 GENERAL. PUBLIC TELEPHONES SHALL COMPLY WITH 704.

704.2 WHEELCHAIR ACCESSIBLE TELEPHONES. WHEELCHAIR ACCESSIBLE TELEPHONES SHALL COMPLY WITH 704.2.

704.2.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL NOT BE OBSTRUCTED BY BASES, ENCLOSURES, OR SEATS. ADVISORY 704.2.1 CLEAR FLOOR OR GROUND SPACE. BECAUSE CLEAR FLOOR AND GROUND SPACE IS REQUIRED TO BE UNOBSTRUCTED, TELEPHONES, ENCLOSURES AND RELATED TELEPHONE BOOK STORAGE CANNOT ENCRONCH ON THE REQUIRED CLEAR FLOOR OR GROUND SPACE AND MUST COMPLY WITH THE PROVISIONS FOR PROTRUDING OBJECTS. (SEE SECTION 307).

704.2.1.1 PARALLEL APPROACH. WHERE A PARALLEL APPROACH IS PROVIDED, THE DISTANCE FROM THE EDGE OF THE TELEPHONE ENCLOSURE TO THE FACE OF THE TELEPHONE UNIT SHALL BE 10 INCHES MAXIMUM.

704.2.1.2 FORWARD APPROACH. WHERE A FORWARD APPROACH IS PROVIDED, THE DISTANCE FROM THE FRONT EDGE OF A COUNTER WITHIN THE TELEPHONE ENCLOSURE TO THE FACE OF THE TELEPHONE UNIT SHALL BE 20 INCHES MAXIMUM

704.2.2 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY WITH 309. TELEPHONES SHALL HAVE PUSH-BUTTON CONTROLS WHERE SUCH SERVICE IS AVAILABLE.

704.2.3 TELEPHONE DIRECTORIES. TELEPHONE DIRECTORIES, WHERE PROVIDED, SHALL BE LOCATED IN ACCORDANCE WITH 309

704.2.4 CORD LENGTH. THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE 29 INCHES LONG MINIMUM.

704.3 VOLUME CONTROL TELEPHONES. PUBLIC TELEPHONES REQUIRED TO HAVE VOLUME CONTROLS SHALL BE EQUIPPED WITH A RECEIVE VOLUME CONTROL THAT PROVIDES A GAIN ADJUSTABLE UP TO 20 DB MINIMUM. FOR INCREMENTAL VOLUME CONTROL, PROVIDE AT LEAST ONE INTERMEDIATE STEP OF 12 DB OF GAIN MINIMUM. AN AUTOMATIC RESET SHALL BE PROVIDED

704.4 TTYS. TTYS REQUIRED AT A PUBLIC PAY TELEPHONE SHALL BE PERMANENTLY AFFIXED WITHIN, OR ADJACENT TO, THE TELEPHONE ENCLOSURE. WHERE AN ACOUSTIC COUPLER IS USED, THE TELEPHONE CORD SHALL BE SUFFICIENTLY LONG TO ALLOW CONNECTION OF THE TTY AND THE TELEPHONE RECEIVER.

704.4.1 HEIGHT. WHEN IN USE, THE TOUCH SURFACE OF TTY KEYPADS SHALL BE 34 INCHES MINIMUM ABOVE THE FINISH FLOOR.

704.5 TTY SHELF. PUBLIC PAY TELEPHONES REQUIRED TO ACCOMMODATE TTYTS SHALL BE EQUIPPED WITH A SHELF AND AN ELECTRICAL OUTLET WITHIN OR ADJACENT TO THE TELEPHONE ENCLOSURE. THE TELEPHONE HANDSET SHALL BE CAPABLE OF BEING PLACED FLUSH ON THE SURFACE OF THE SHELF. THE SHELF SHALL BE CAPABLE OF ACCOMMODATING A TTY AND SHALL HAVE 6 INCHES MINIMUM VERTICAL CLEARANCE ABOVE THE AREA WHERE THE TTY IS TO BE PLACED.

705 DETECTABLE WARNINGS

705.1 GENERAL. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH 705

705.1.1 DOME SIZE. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH MINIMUM AND 1.4 INCHES MAXIMUM, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MINIMUM TO 65 PERCENT OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCH.

705.1.2 DOME SPACING. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES MINIMUM AND 2.4 INCHES MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.

705.1.3 CONTRAST. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT ON DARK OR DARK ON LIGHT

705.2 PLATFORM EDGES. DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24" WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.

706 ASSISTIVE LISTENING SYSTEMS

706.2 RECEIVER JACKS. RECEIVERS REQUIRED FOR USE WITH AN ASSISTIVE LISTENING SYSTEM SHALL INCLUDE A 1/8 INCH STANDARD MONO JACK

706.3 RECEIVER HEARING-AID COMPATIBILITY. RECEIVERS REQUIRED TO BE HEARING-AID COMPATIBLE SHALL INTERFACE WITH TELECOILS IN HEARING AIDS THROUGH THE PROVISION OF NECKLOOPS.

706.4 SOUND PRESSURE LEVEL. ASSISTIVE LISTENING SYSTEMS SHALL BE CAPABLE OF PROVIDING A SOUND PRESSURE LEVEL OF 110 DB MINIMUM AND 118 DB MAXIMUM WITH A DYNAMIC RANGE ON THE VOLUME CONTROL OF 50 DB.

706.5 SIGNAL-TO-NOISE RATIO. THE SIGNAL-TO-NOISE RATIO FOR INTERNALLY GENERATED NOISE IN ASSISTIVE LISTENING SYSTEMS SHALL BE 18 DB MINIMUM.

706.6 PEAK CLIPPING LEVEL. PEAK CLIPPING SHALL NOT EXCEED 18 DB OF CLIPPING RELATIVE TO THE PEAKS OF SPEECH

707 AUTOMATIC TELLER MACHINES AND FARE MACHINES

707.2 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED.

707.3 OPERABLE PARTS.

OPERABLE PARTS SHALL COMPLY WITH 309. UNLESS A CLEAR OR CORRECT KEY IS PROVIDED, EACH OPERABLE PART SHALL BE ABLE TO BE DIFFERENTIATED BY SOUND OR TOUCH, WITHOUT ACTION

EXCEPTION: DRIVE-UP ONLY AUTOMATIC TELLER MACHINES AND FARE MACHINES SHALL NOT BE REQUIRED TO COMPLY WITH 309.2 AND 309.3

707.4 PRIVACY.

AUTOMATIC TELLER MACHINES SHALL PROVIDE THE OPPORTUNITY FOR THE SAME DEGREE OF PRIVACY OF INPUT AND OUTPUT AVAILABLE TO ALL INDIVIDUALS.

707.5 SPEECH OUTPUT. MACHINES SHALL BE SPEECH ENABLED. OPERATING INSTRUCTIONS AND ORIENTATION, VISIBLE TRANSACTION PROMPTS, USER INPUT VERIFICATION, ERROR MESSAGES, AND ALL DISPLAYED INFORMATION FOR FULL USE SHALL BE ACCESSIBLE TO AND INDEPENDENTLY USABLE BY INDIVIDUALS WITH VISION IMPAIRMENTS. SPEECH SHALL BE DELIVERED THROUGH A MECHANISM THAT IS READILY AVAILABLE TO ALL USERS, INCLUDING BUT NOT LIMITED TO, AN INDUSTRY STANDARD CONNECTOR OR A TELEPHONE HANDSET. SPEECH SHALL BE RECORDED OR DIG

PLUMBING FIXTURES								
OCCUPANCY	CLASSIFICATION	DESCRIPTION	OCC. LOAD	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS
				MALE	FEMALE	MALE	FEMALE	
B	BUSINESS	BUSINESS, PROFESSIONAL SERVICES, OTHER SERVICES INVOLVING MERCHANDISE, OFFICE BUILDINGS, BANKS, LIGHT INDUSTRIAL AND SIMILAR USES.	13	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100		1 PER 1,000
				1 REQ'D 2 SHOWN	1 REQ'D 1 SHOWN	1 REQ'D 2 SHOWN		1 REQ'D 1 SHOWN
								1 SERVICE SINK
								1 REQ'D 1 SHOWN

OCCUPANCY CLASSIFICATION	FUNCTION OF SPACE	AREA	OCCUPANT LOAD FACTOR		OCCUPANT LOAD VALUES			EXIT WIDTHS		
			AREA/OCC	TYPE	PER MAX ALLOW	ALT VALUE OR CALC	TOTAL OCCUPANT LOAD	REQ'D/ OCC	TOTAL REQ'D	TOTAL PROVIDED
	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	105 SF	300 SF	GROSS	1		1	0.20"	0.20"	33.00"
	BUSINESS AREAS: TABLE 1004.5 (IBC 2018)	1,791 SF	150 SF	GROSS	12		12	0.20"	2.40"	66.00"
TOTAL		1,896 SF			13		13		2.60"	99.00"

LIFE SAFETY DATA					
ALL OF THE FOLLOWING CHAPTER AND TABLE REFERENCES ARE TO INTERNATIONAL BUILDING CODE 2015					
OCCUPANCY CLASSIFICATION(S):	GROUP B: BUSINESS	PER CHAPTER 3	GREATEST TRAVEL DISTANCE:	200' - 0" ALLOWED 61' - 10" SHOWN	PER TABLE 1017.2
CONSTRUCTION TYPE:	TYPE II-B	PER TABLES 504.3 & 504.4 & 601			
EXITS:	2 EXITS REQUIRED 3 EXITS PROVIDED	PER TABLE 1006.3.1 BASED ON OCCUPANT LOAD OF 13	COMMON PATH OF TRAVEL:	100' - 0" ALLOWED 34' - 5" SHOWN	PER TABLE 1006.2.1

LEVEL
5

Level 5 Architecture
Mansfield, TX | Springdale, AR
level5architecture.com

5/26/2022

PROJECT INFORMATION:

ARK-TEX COUNCIL OF GOVERNMENTS

TRANSPORTATION
OFFICE
RENOVATION

1610 CLARKSVILLE
ST. PARIS, TEXAS
75460

PROJECT NUMBER: 21-90T

ISSUE DATE: 5/26/2022

REVISIONS:

SHEET NAME:

LIFE SAFETY PLAN

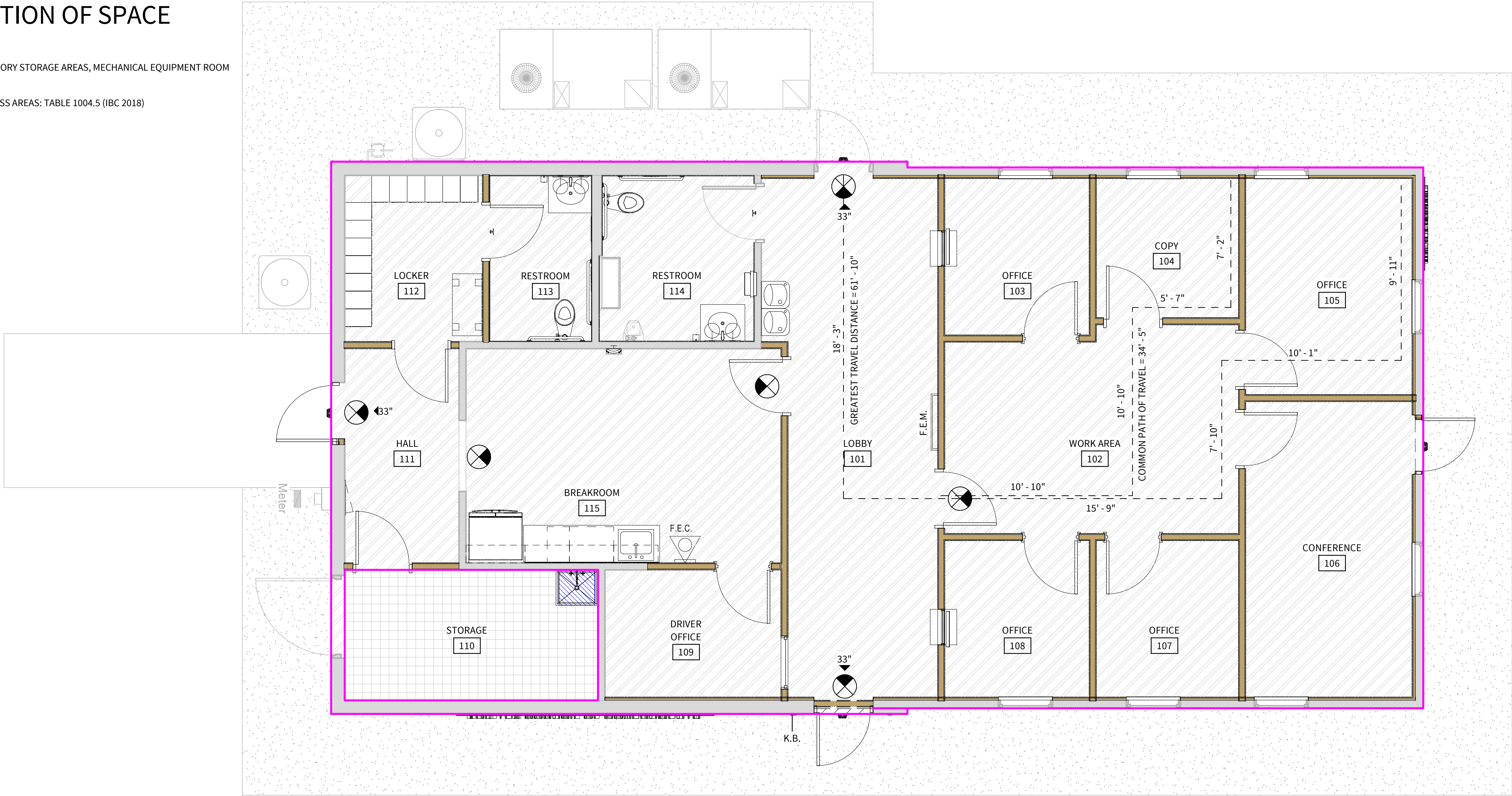
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G201

7/14/2022 11:44:13 AM

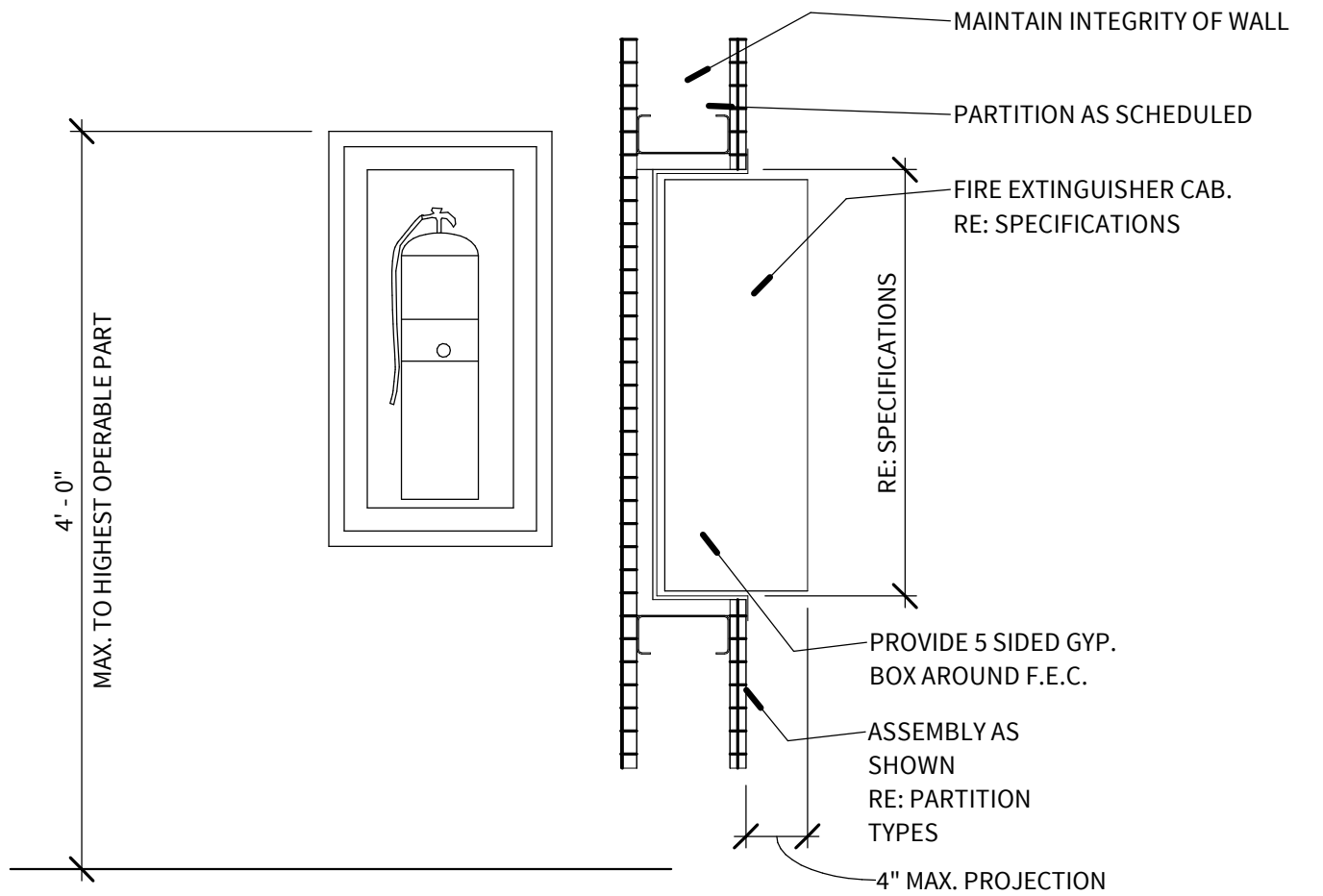
FUNCTION OF SPACE

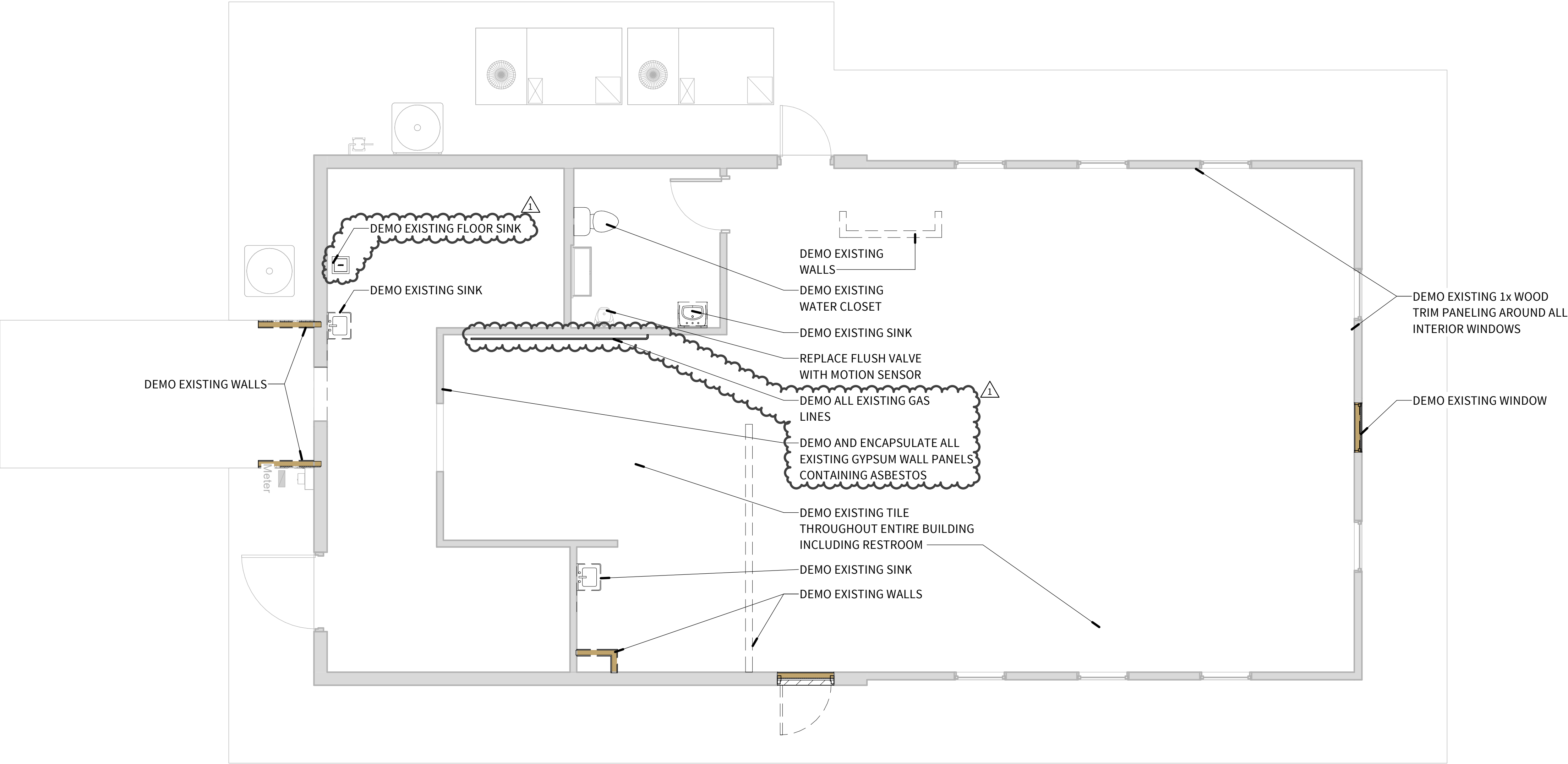
-
- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM

 BUSINESS AREAS: TABLE 1004.5 (IBC 2018)

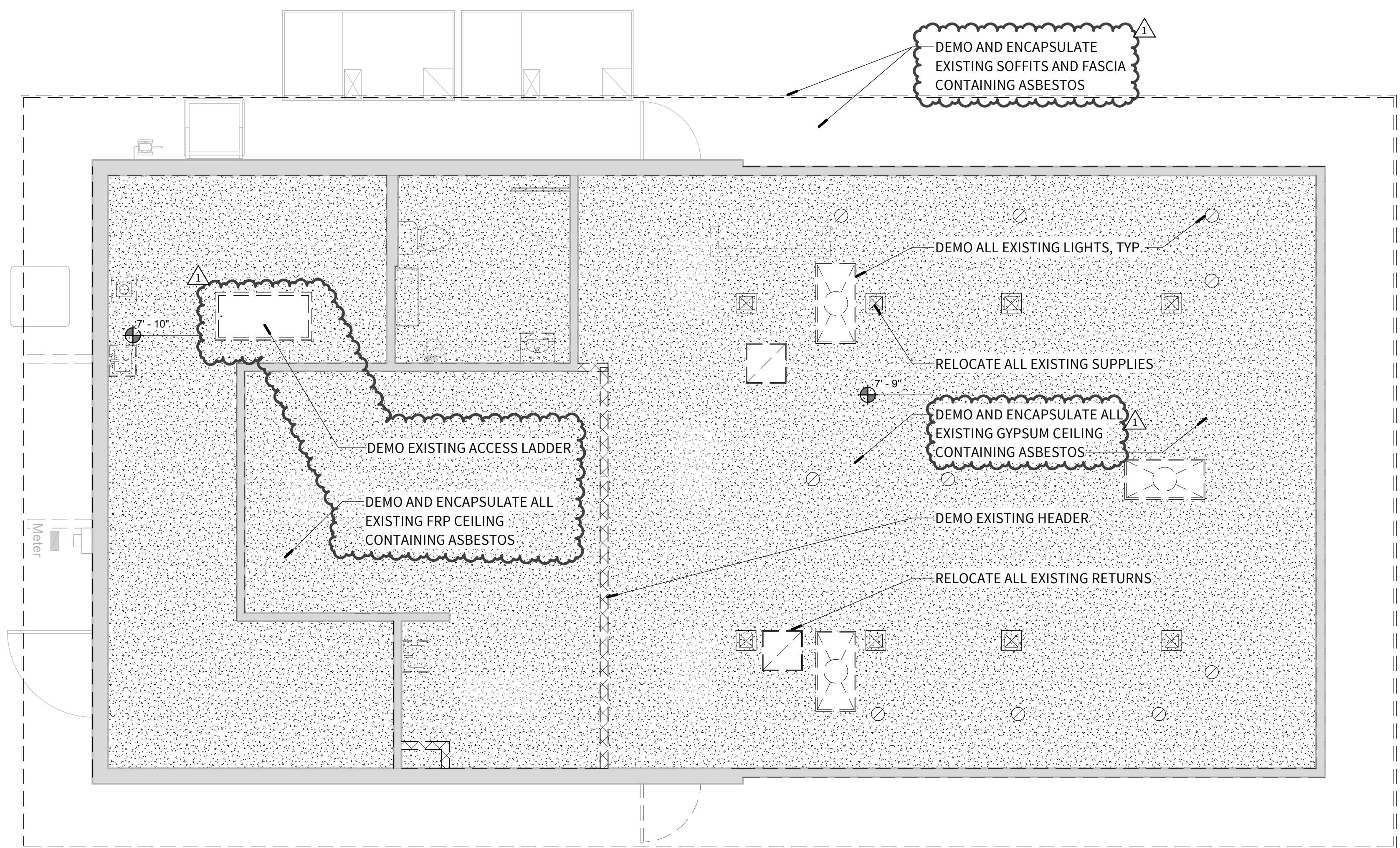
LIFE SAFETY LEGEND

- FIRE EXTINGUISHER
- RECESSED KNOX BOX
- FIRE ALARM PANEL
- FIRE EVACUATION MAP
- ANSUL SYSTEM
- SECURITY CAMERA
- EXIT LOCATION AND WIDTH (IN.)
- FIRE RATING OF DOOR IN MINUTES (C INDICATES A CLOSER REQUIRED AT THIS DOOR LOCATION)
- EXIT LIGHT FIXTURE W/ DIRECTION ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY AND EXIT DISCHARGE, A TACTILE SIGN STATING EXIT AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED (ARROW DENOTES FACE OF FIXTURE AND EXITING DIRECTION)
- 1 HR FIRE RATING
- 2 HR FIRE RATING
- 3 HR FIRE RATING
- 1 HR SMOKE PARTITION
- NR SMOKE PARTITION





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1 REFLECTED CEILING DEMO PLAN
SCALE: 1/4" = 1'-0"

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5

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REVISIONS:
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SHEET NAME:

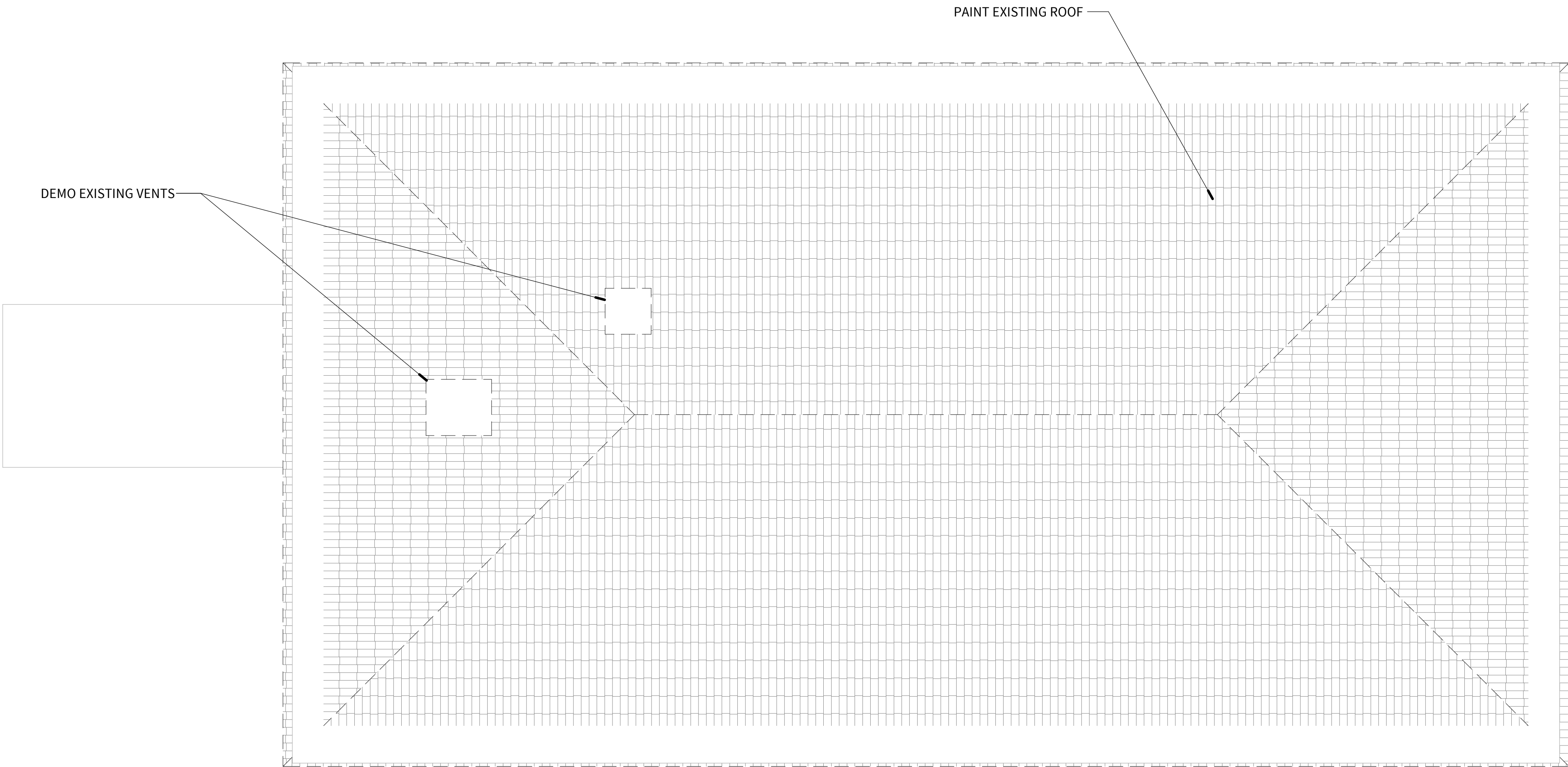
RCP DEMO PLAN

SHEET NUMBER:

D202

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1 **ROOF DEMO PLAN**
SCALE: 1/4" = 1'-0"

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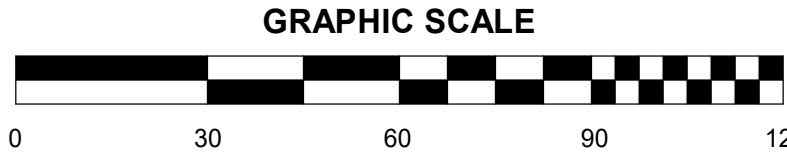
ROOF DEMO PLAN

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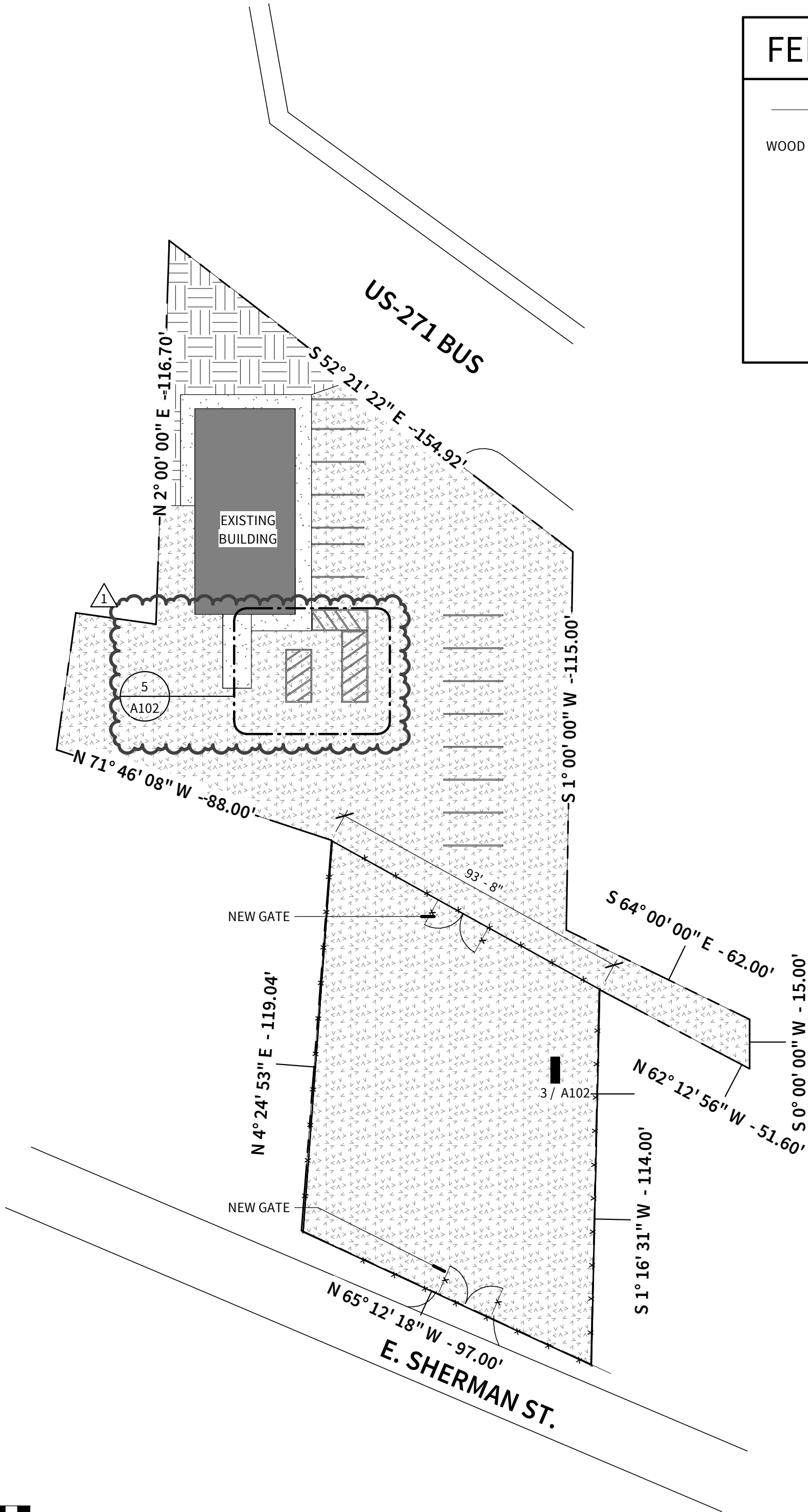
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1 SITE PLAN
SCALE: 1" = 30'-0"



SITE PLAN NOTES

1. ALL SIGNAGE WILL COMPLY WITH THE REGULATIONS FOR THE ZONED PROPERTY AS OUTLINED IN THE ZONING ORDINANCE.
2. ALL EQUIPMENT SHALL BE DESIGNED AND SCREENED IN ACCORDANCE WITH THE REGULATIONS OUTLINED IN THE ZONING ORDINANCE.
3. LOADING ZONE SHALL BE MARKED IN STRIPING AND SHALL BE INDEPENDANT OF THE FIRE LANE.

MATERIAL LEGEND

	CONCRETE		GRASS
	MULCH		ASPHALT

FENCE LEGEND

WOOD STOCKADE FENCE RE: 3 / A102

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SHEET NAME:

SITE PLAN

SHEET NUMBER:

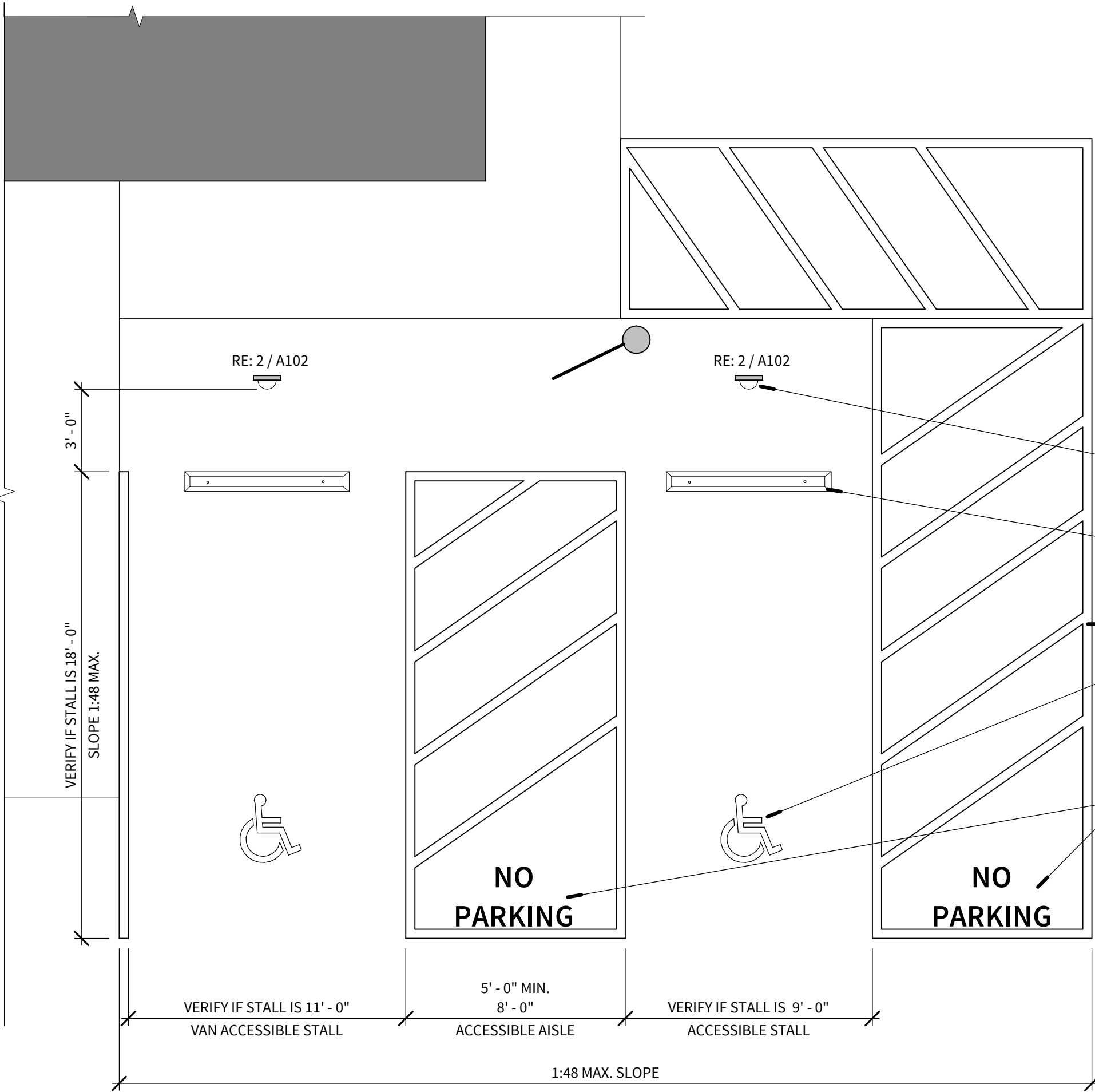
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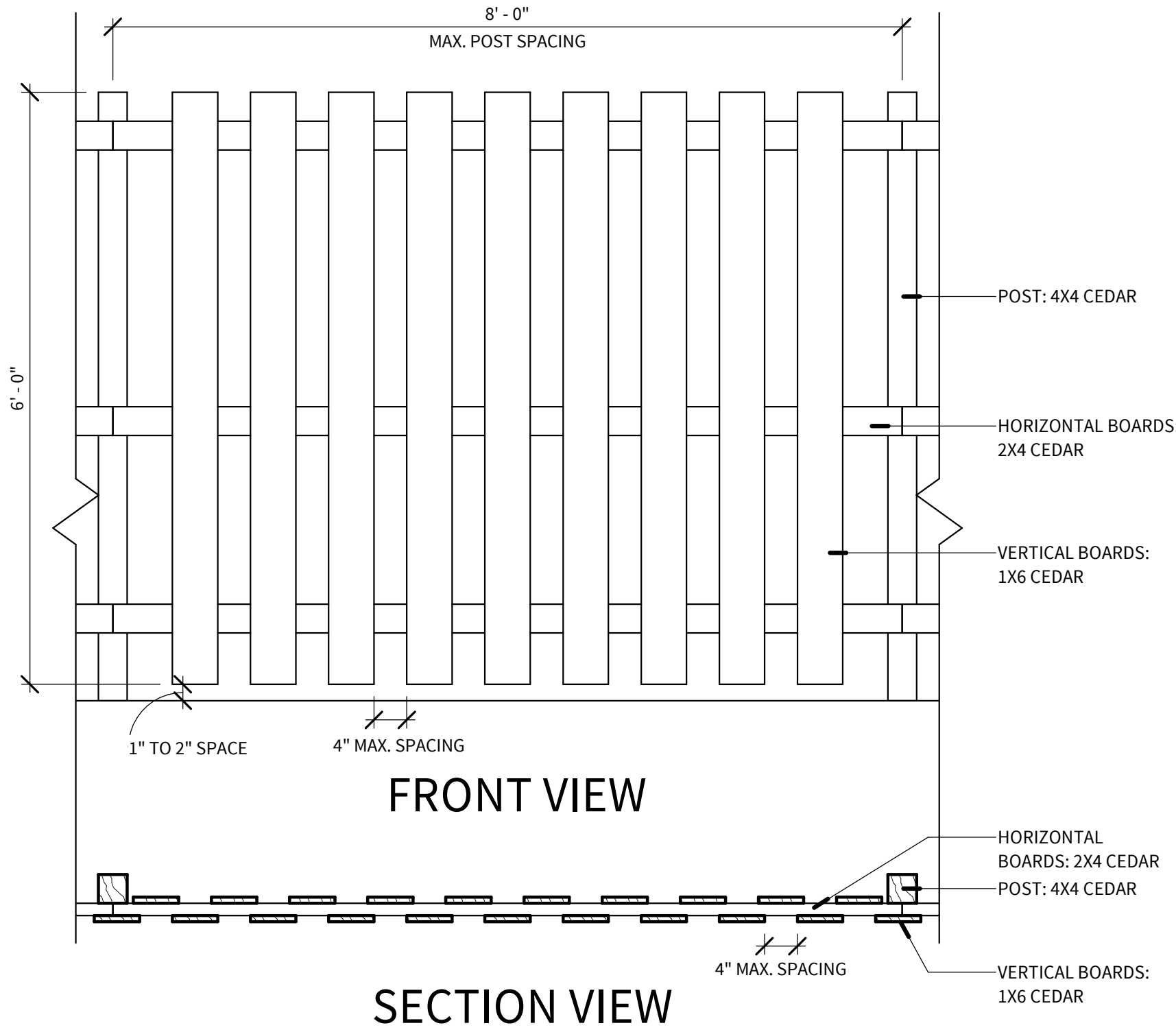
5 ACCESSIBLE PARKING AREA

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



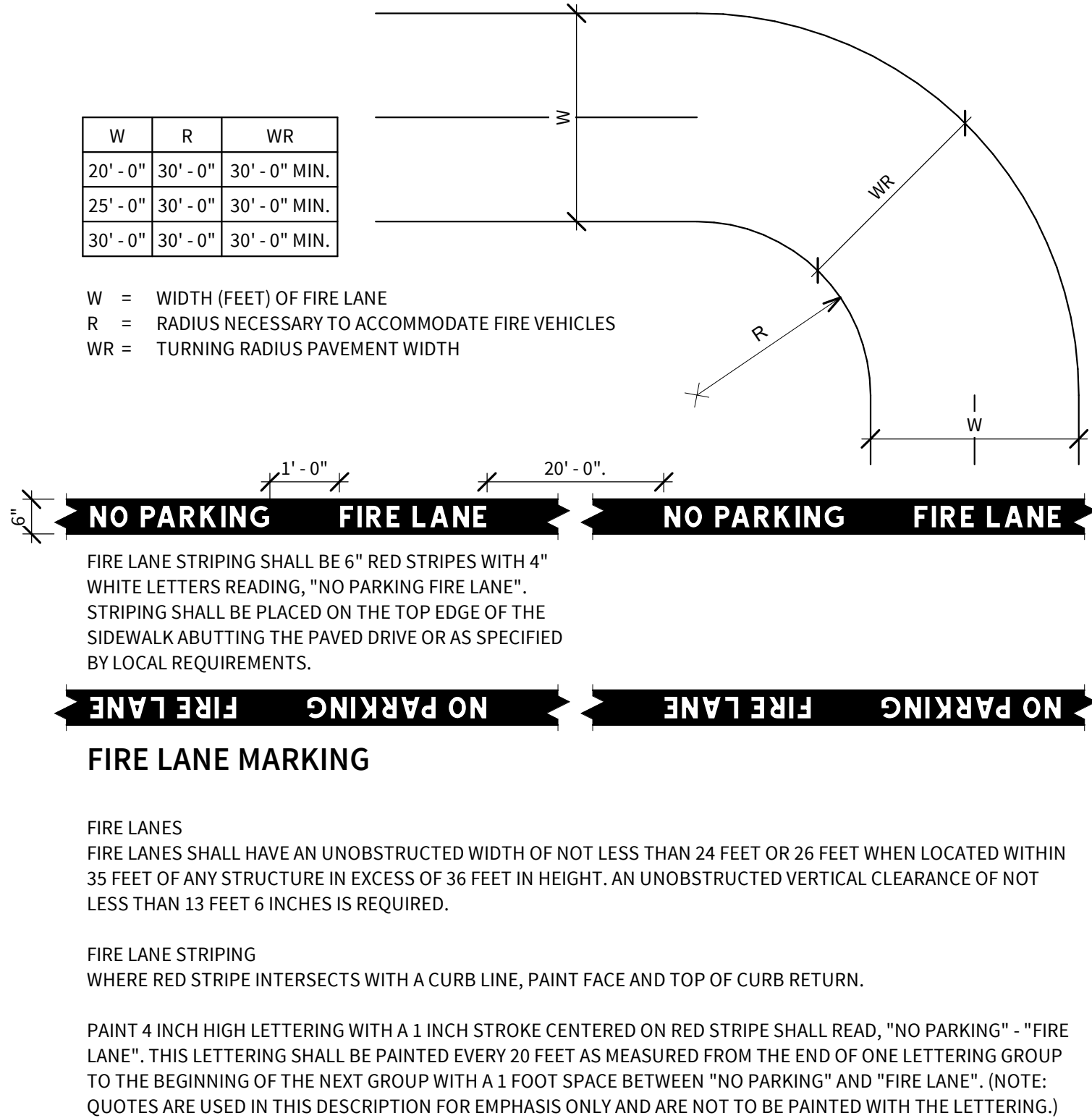
3 STOCKADE FENCE ELEVATION

SCALE: 3/4" = 1'-0"



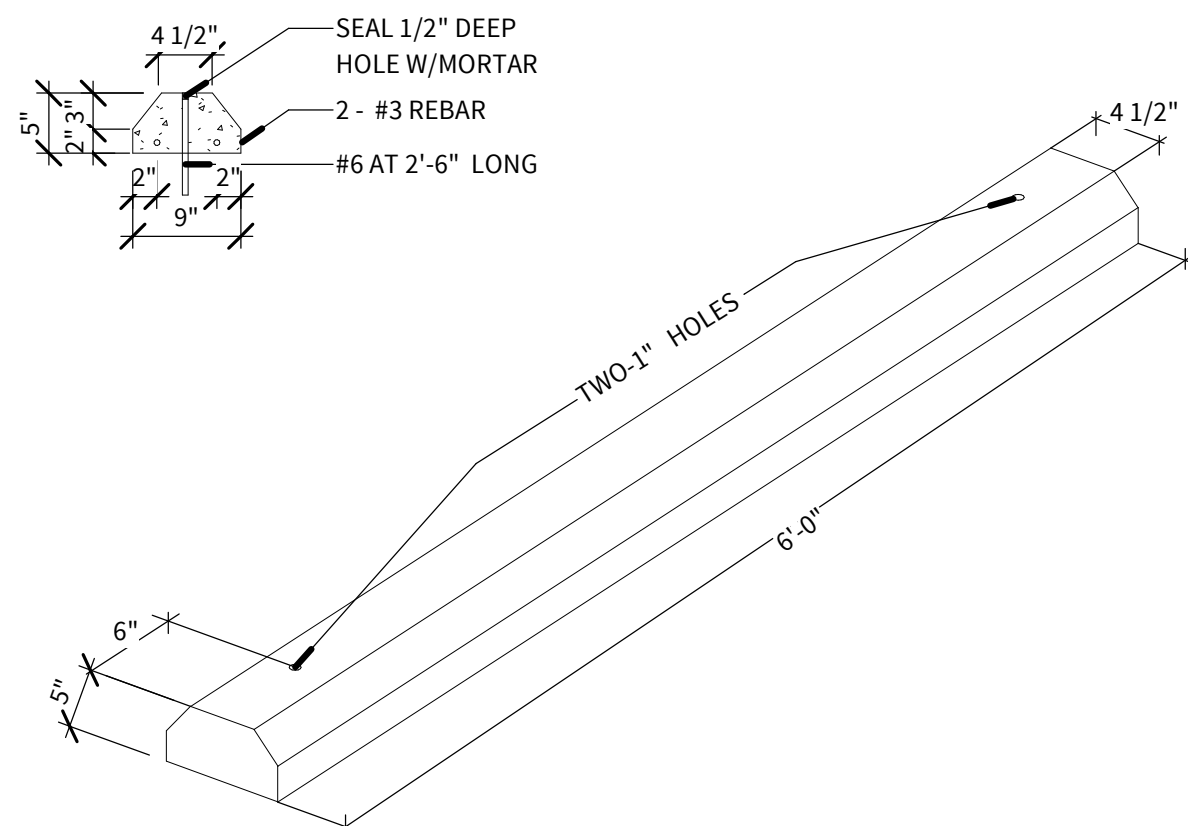
4 FIRE LANE MARKING

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



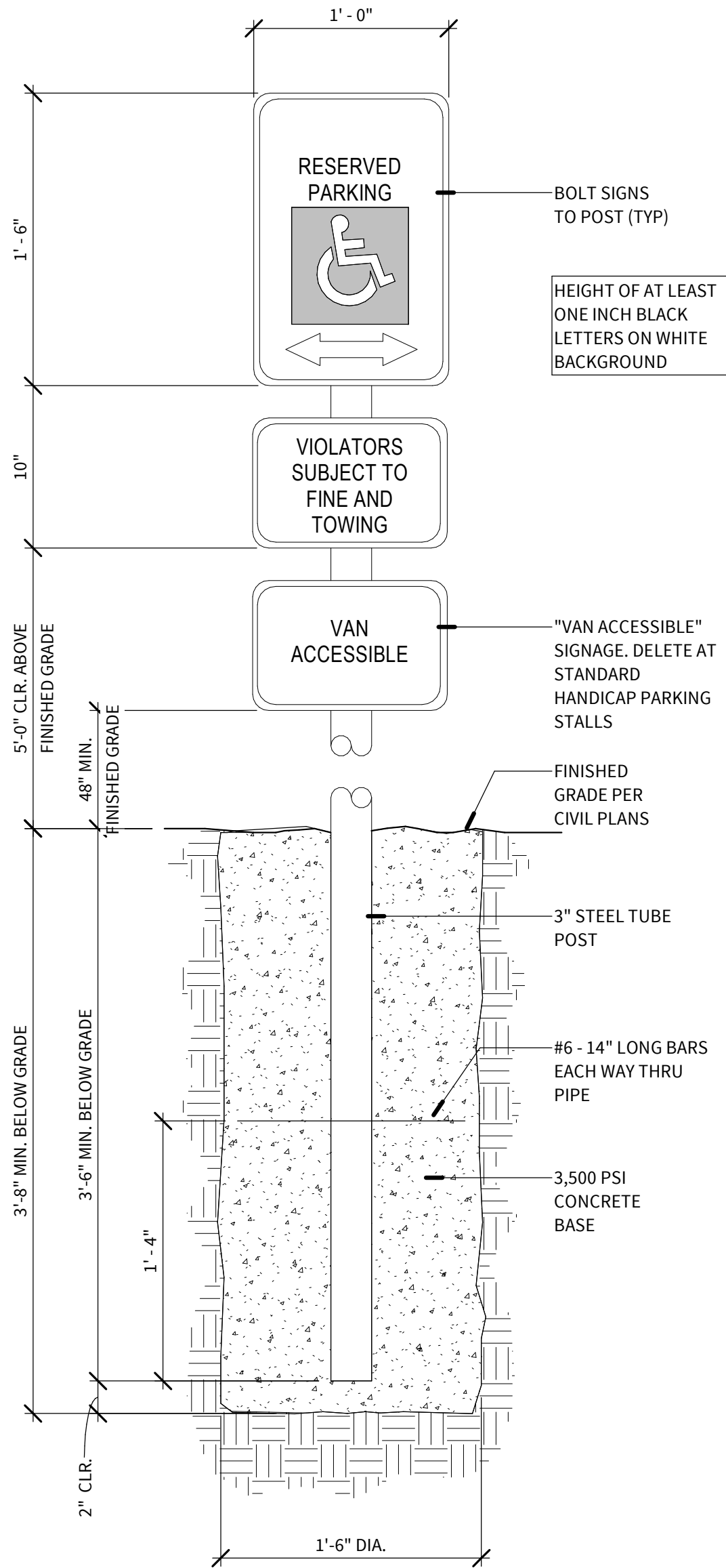
1 PRECAST CONCRETE WHEEL STOP

SCALE: 3/4" = 1'-0"



2 ACCESSIBLE PARKING SIGN

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



SHEET NUMBER: **A102**

7/14/2022 11:43:51 AM

SHEET NAME: **SITE DETAILS**

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:
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PROJECT INFORMATION:
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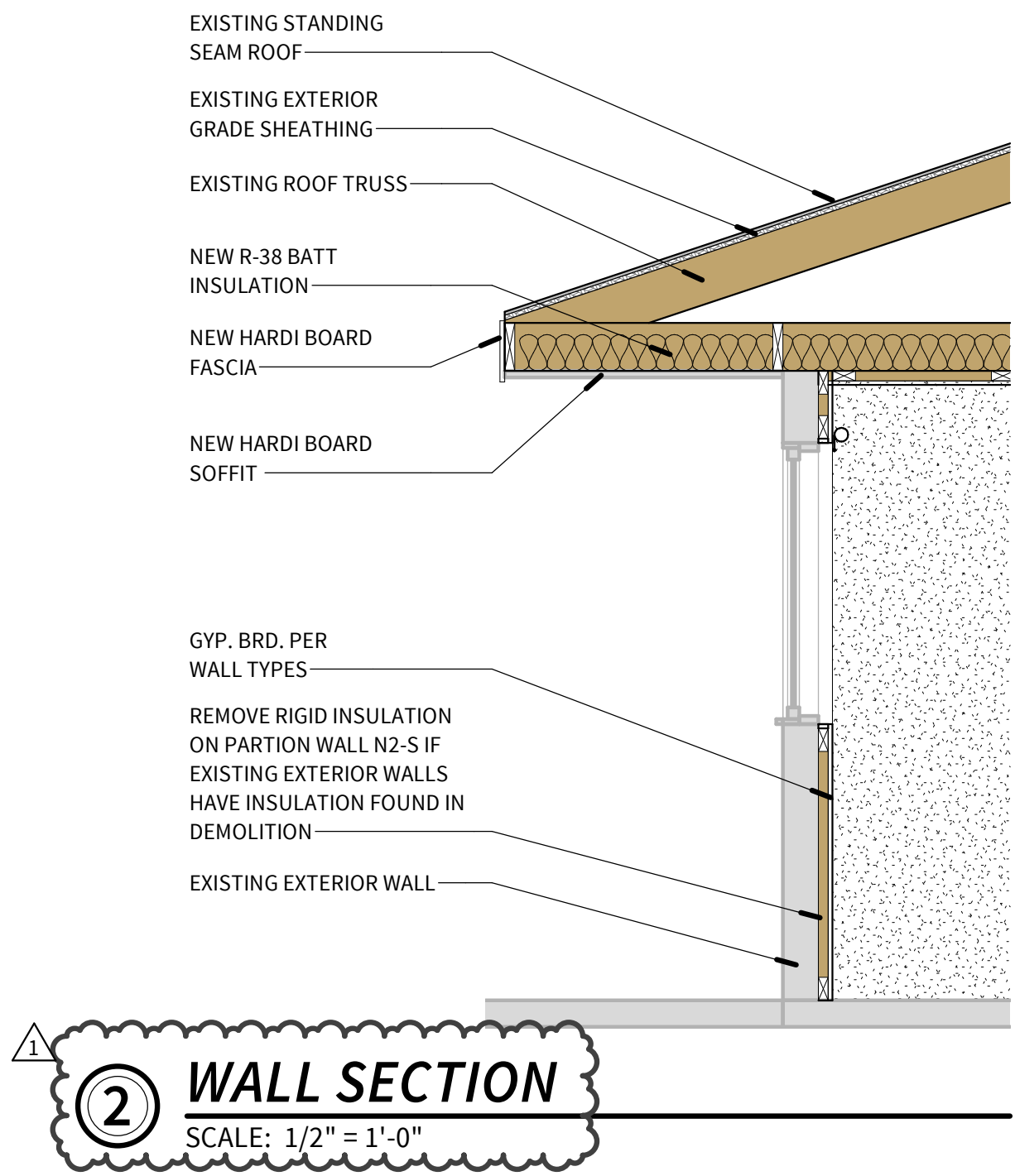
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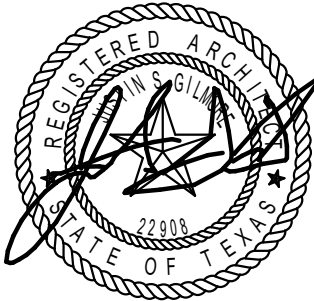


REFERENCE PLAN NOTES

1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. ALL DIMENSIONS ARE FROM THE FACE OF STUDS, CMU OR CONCRETE WALL AND DO NOT INCLUDE ANY FINISH MATERIAL. EXTERIOR DIMENSIONS ARE FROM FACE OF THE FOUNDATION, AND STEEL LINE (FACE OF FOUNDATION MINUS WIDTH OF THE LEDGE. EXCLUDES THICKNESS OF ANY EXTERIOR VENEER)
2. FOR DIMENSIONS, REFER TO DIMENSION PLAN(S)
3. REFER TO TOILET ACCESSORY LEGEND (WITH INTERIOR ELEVATIONS) FOR TYPICAL MOUNTING HEIGHTS OF TOILET ACCESSORIES
4. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISH AREAS
5. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT. WINDOW FRAMES, CABINET WORK AND CASEWORK WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE. RE: INTERIOR ELEVATIONS
6. PROVIDE WOOD BLOCKING IN STUD WALLS FOR ANCHORAGE OF GRAB BARS, PAPER HOLDERS, VANITIES, WALL MOUNTED DOOR STOPS, SINKS, SHELVING, ETC. VERIFY EXACT LOCATION AND HEIGHT WITH ALL APPLICABLE SUBCONTRACTORS
7. PROVIDE BATT INSULATION AT INTERIOR WALLS AROUND ALL OFFICES TOILETS AND TRAINING ROOMS
8. REFER TO WALL SECTIONS FOR INSULATION REQUIREMENTS AT ALL EXTERIOR WALLS AND ROOF DECK
9. FIELD VERIFY EXACT SIZE OF ALL OWNER PROVIDED EQUIPMENT. LET ARCHITECT KNOW IN WRITING OF ANY DISCREPANCIES



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SHEET NAME:

REFERENCE PLAN

SHEET NUMBER:

A201

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1

REFERENCE PLAN

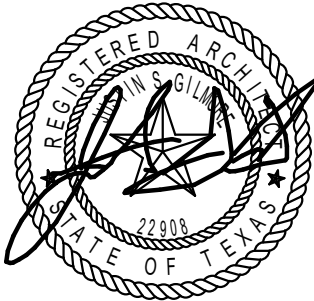
SCALE: 1/4" = 1'-0"

DIMENSION PLAN NOTES

1. ALL WALLS TO BE TYPE 'M1-S' UNLESS NOTED OTHERWISE
2. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. ALL DIMENSIONS ARE FROM THE FACE OF STUDS, CMU OR CONCRETE WALL AND DO NOT INCLUDE ANY FINISH MATERIAL. EXTERIOR DIMENSIONS ARE FROM FACE OF THE FOUNDATION, AND STEEL LINE (FACE OF FOUNDATION MINUS WIDTH OF THE LEDGE. EXCLUDES THICKNESS OF ANY EXTERIOR VENEER)
3. REFER TO PARTITION TYPES FOR DESIGNATIONS ON THIS PLAN
4. REFERENCE THE ENTIRE SET FOR FURTHER DIMENSIONS AS NEEDED. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN PLAN DIMENSIONS BEFORE PROCEEDING
5. REFER TO TOILET ACCESSORY LEGEND (WITH INTERIOR ELEVATIONS) FOR TYPICAL MOUNTING HEIGHTS OF TOILET ACCESSORIES
6. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISH AREAS
7. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT. WINDOW FRAMES, CABINET WORK AND CASEWORK WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE. RE: INTERIOR ELEVATIONS
8. SEE ENLARGED PLANS FOR ADDITIONAL DIMENSIONS



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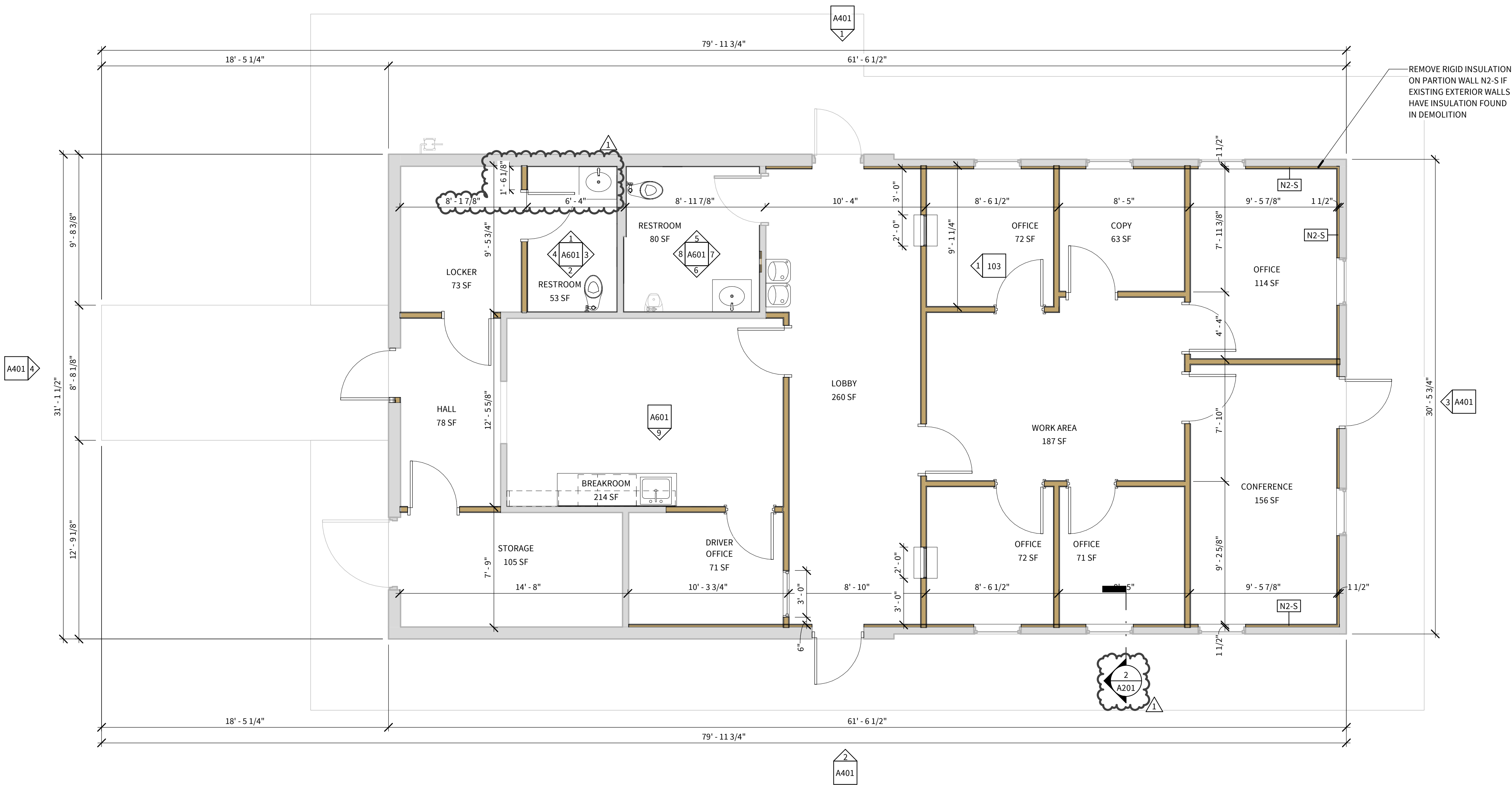
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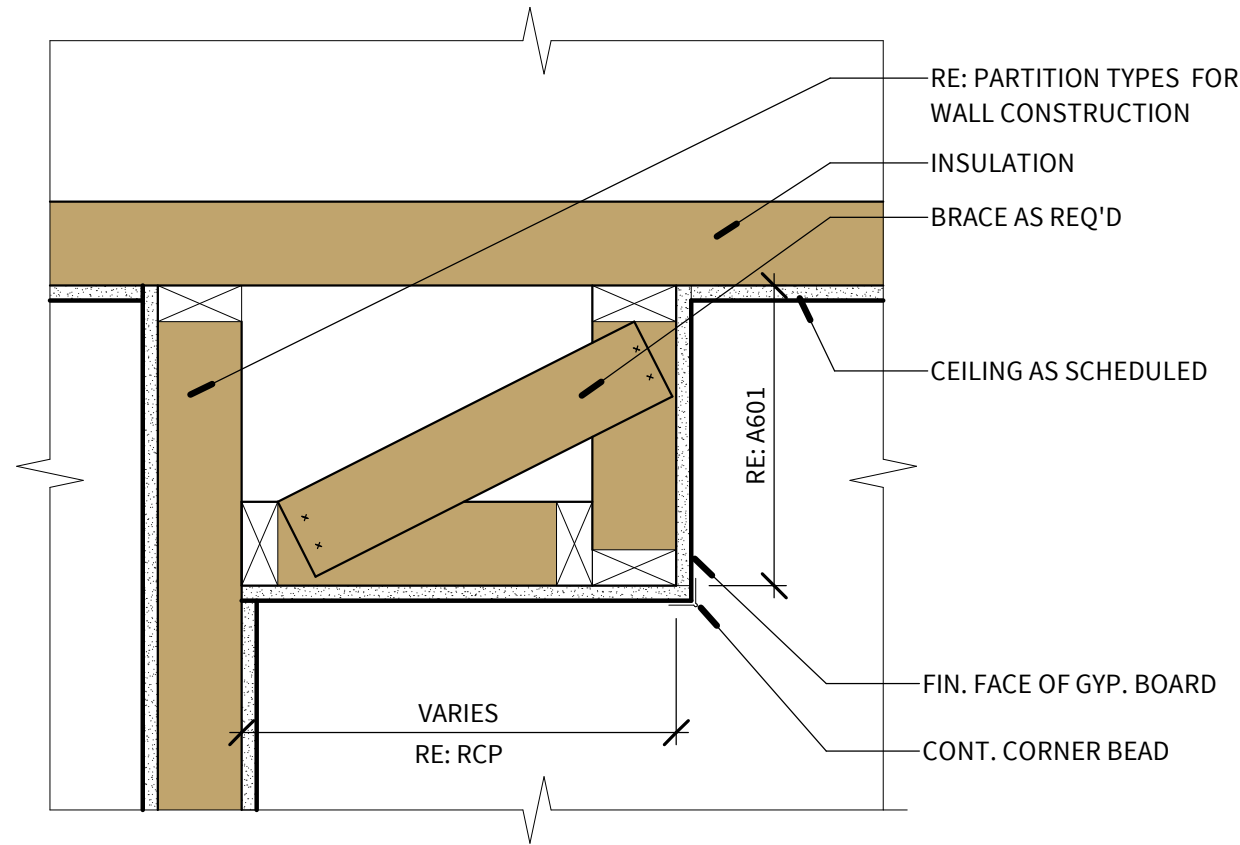
DIMENSION PLAN

SHEET NUMBER:

A202

7/18/2022 5:40:55 PM





2 TYPICAL FURR DOWN
SCALE: 1 1/2" = 1'-0"

CEILING LEGEND

	GYPSUM BOARD		VANITY LIGHT		2 X 4 LIGHT
	CAN DOWNLIGHT		EMERGENCY LIGHT		EGRESS EMERGENCY LIGHT
	EXISTING EXIT SIGN		SUPPLY DIFFUSER, RE: MEP		RETURN REGISTER, RE: MEP

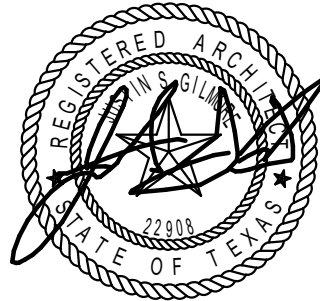
NOTE: RE: ELECTRICAL LIGHTING SCHEDULE FOR FIXTURE TYPES

CEILING PLAN NOTES

1. UNLESS NOTED OTHERWISE ALL CEILINGS ARE TO BY GYPSUM BOARD: TAPED, BEDDED, TEXTURED AND PRIMED. FINISH TO BE SELECTED BY ARCHITECT
2. ALL KITCHEN & FOOD SERVICE AREAS ARE TO HAVE VINYL CLAD CEILING TILES WITH SCRUBBABLE SURFACES
3. ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED
4. REFER TO ELECTRICAL FOR LIGHTING FIXTURE SCHEDULE
5. REFER TO MECHANICAL SCHEDULE FOR MECHANICAL GRILLE SIZES. MECHANICAL SCHEDULE TAKES PRECEDENCE OVER THE R.C.P. IN THE EVENT OF ANY DISCREPANCIES IN GRILLE SIZE SHOWN BETWEEN THE TWO. LOCATION OF GRILLES SHALL BE INSTALLED PER THE R.C.P. AS CLOSE AS POSSIBLE
6. ALL SPEAKERS, SECURITY CAMERAS, & FIRE PROTECTION TO BE COORDINATED WITH OWNER PRIOR TO INSTALLATION
7. GENERAL CONTRACTOR TO VERIFY EXISTING CEILING CONDITIONS FOR PATCH AND REPAIR.



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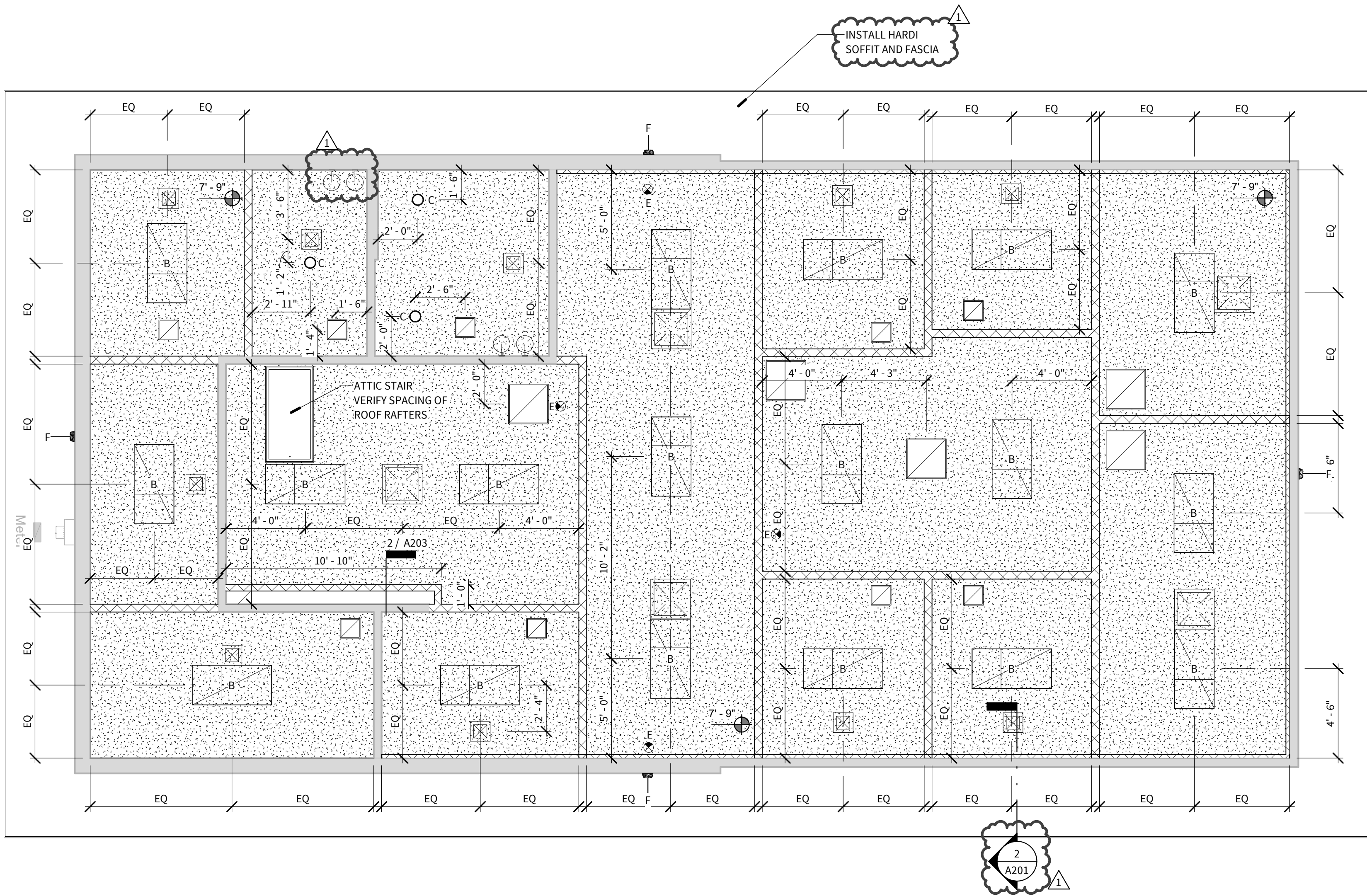
SHEET NAME:

REFLECTED CEILING
PLAN

SHEET NUMBER:



A203

7/18/2022 5:40:57 PM



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

SYMBOL LEGEND

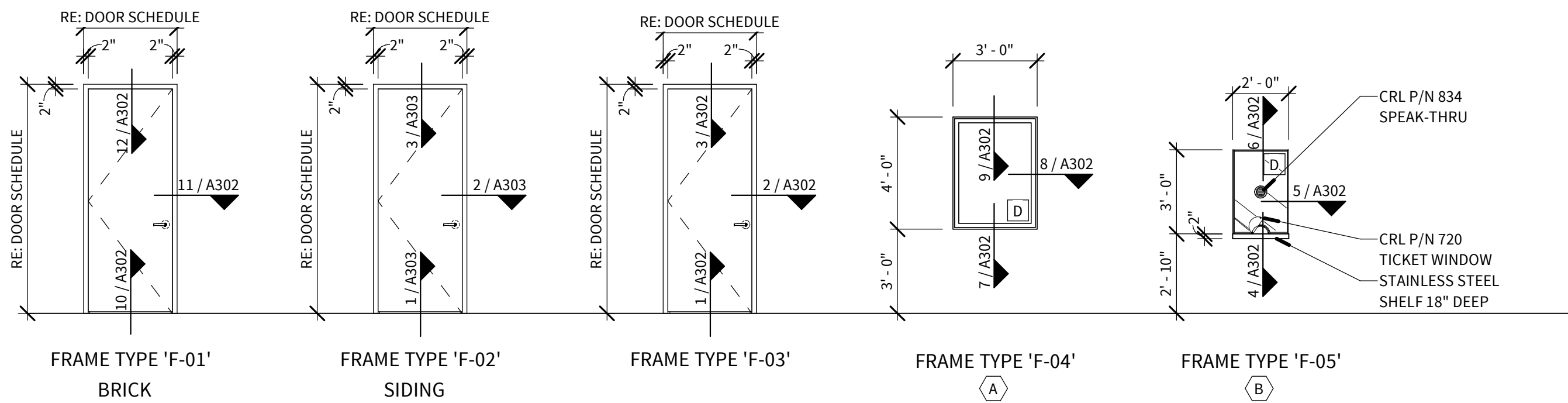
	GLAZING TYPE DESIGNATION
	FRAME TYPE DESIGNATION

DOOR SCHEDULE

GLAZING TYPE 'A' - 1" LOW-E CLEAR VISION														
GLAZING TYPE 'B' - 1/4" CLEAR VISION														
GLAZING TYPE 'C' - 1" LOW-E TEMPERED CLEAR VISION														
GLAZING TYPE 'D' - 1/4" TEMPERED CLEAR VISION														
MARK	ROOMS				DIMENSIONS			DOOR		GLAZING TYPE	FRAME		HARDWARE SET	REMARKS
	TO NUM	NAME	FROM NUM	NAME	W	H	D	TYPE	MATERIAL		TYPE	MATERIAL		
101A			101	LOBBY	3'- 0"	6'- 8"	1 3/4"	D-01	DF-102	C	F-01	DF-102	2.0	EXISTING - DOOR FRAME NEEDS ADJUSTMENT
101B			101	LOBBY	3'- 0"	6'- 8"	1 3/4"	D-02	HM	--	F-01	HM	4.0	EXISTING OPENING TO REMAIN /NEW PAINT
102	102	WORK AREA	101	LOBBY	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	5.0	
103	103	OFFICE	102	WORK AREA	3'- 0"	6'- 8"	1 3/4"	D-03	PL-101	--	F-03	DF-101	9.0	
104	104	COPY	102	WORK AREA	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	10.0	
105	105	OFFICE	102	WORK AREA	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	9.0	
106A	106	CONFERENCE	102	WORK AREA	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	10.0	
106B			106	CONFERENCE	3'- 0"	6'- 8"	1 3/4"	D-01	DF-102	C	F-02	DF-102	1.0	
107	107	OFFICE	102	WORK AREA	3'- 0"	6'- 8"	1 3/4"	D-03	PL-101	--	F-03	DF-101	9.0	
108	108	OFFICE	102	WORK AREA	3'- 0"	6'- 8"	1 3/4"	D-03	PL-101	--	F-03	DF-101	9.0	
109	109	DRIVER OFFICE	115	BREAKROOM	3'- 0"	6'- 8"	1 3/4"	D-03	PL-101	--	F-03	DF-101	9.0	
110A			110	STORAGE	4'- 4"	6'- 8"	1 3/4"	D-02	HM	--	F-01	HM	3.0	EXISTING OPENING TO REMAIN /NEW PAINT
110B	111	HALL	110	STORAGE	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	6.0	
111A			111	HALL	3'- 2"	6'- 8"	1 3/4"	D-02	HM	--	F-01	HM	3.0	
112	112	LOCKER	111	HALL	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	11.0	
113	113	RESTROOM	112	LOCKER	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	8.0	
114	114	RESTROOM	101	LOBBY	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	8.0	
115A	115	BREAKROOM	101	LOBBY	3'- 0"	6'- 8"	1 3/4"	D-02	PL-101	--	F-03	DF-101	7.0	
115B	115	BREAKROOM	111	HALL	0"	0"		--	--	--	--	--		CASED OPENING

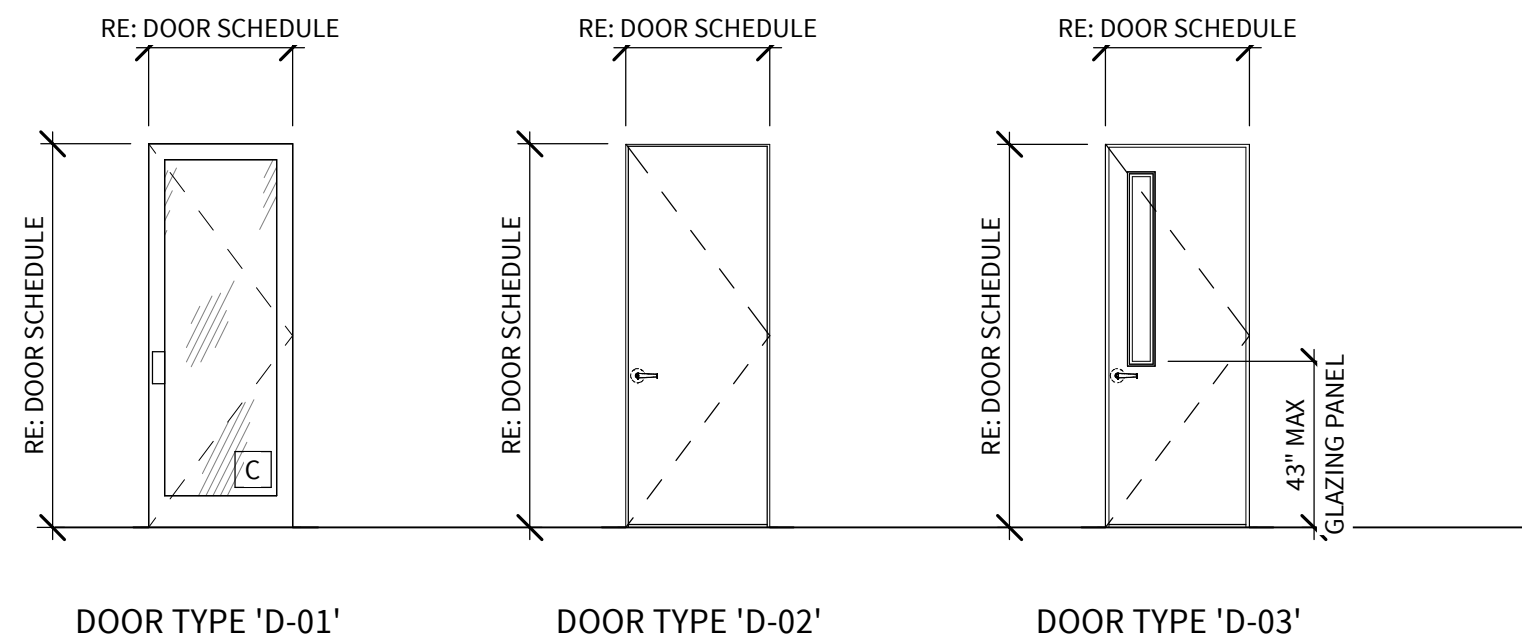
WINDOW SCHEDULE

TYPE MARK	GLAZING TYPE	FRAME		ACCESSORIES	REMARKS
		TYPE	MATERIAL		
A	DOUBLE PANEL	F-04	VINYL	LUXOUT ROLLER SHADE SYSTEM - OPEN ROLLER - PROVIDE ONE WAY MIRROR FILM	SIERRA PACIFIC - 8000 VINYL DIRECT SET - DARK BRONZE
B	SINGLE PANEL	F-05	ALUM	LUXOUT ROLLER SHADE SYSTEM - OPEN ROLLER	C.R. LUARENCE - TICKET WINDOW - CRL P/N SCW102
C	EXISTING	--	--	LUXOUT ROLLER SHADE SYSTEM - OPEN ROLLER	EXISTING



FRAME TYPE

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

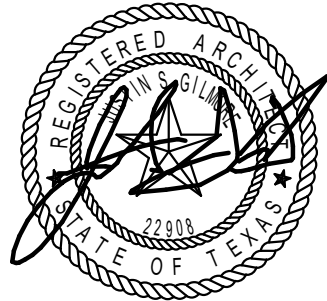


DOOR TYPE

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



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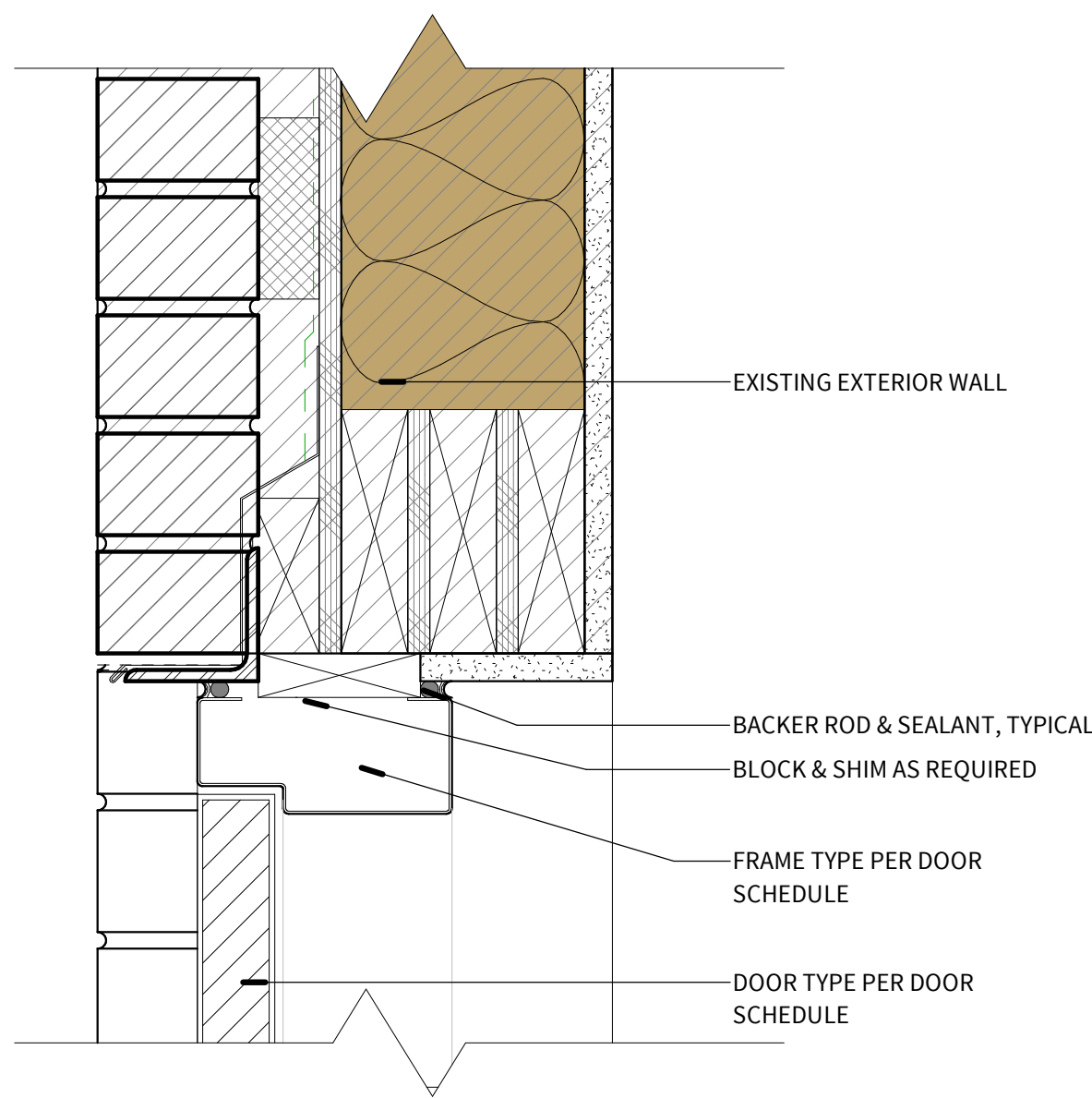
DOOR & WINDOW SCHEDULES

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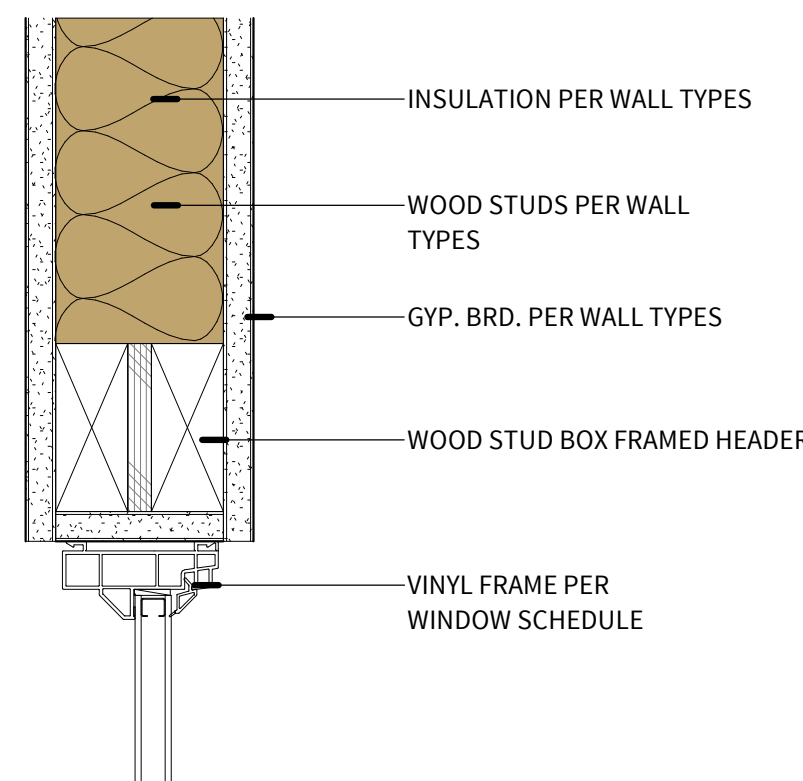
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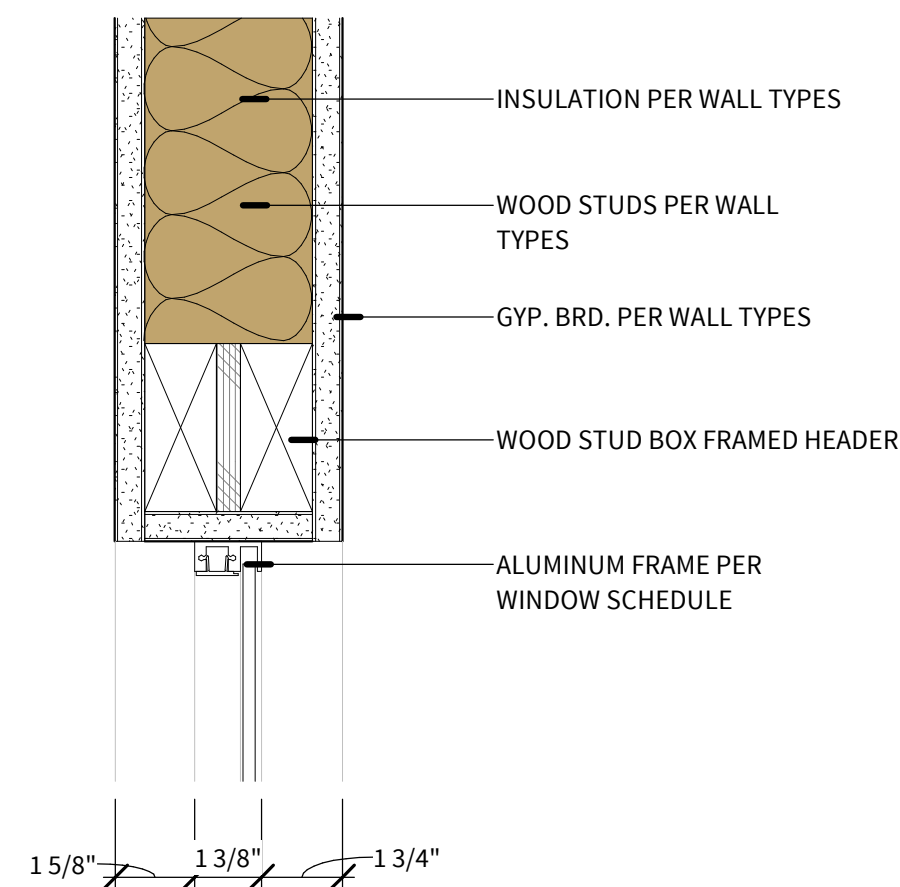
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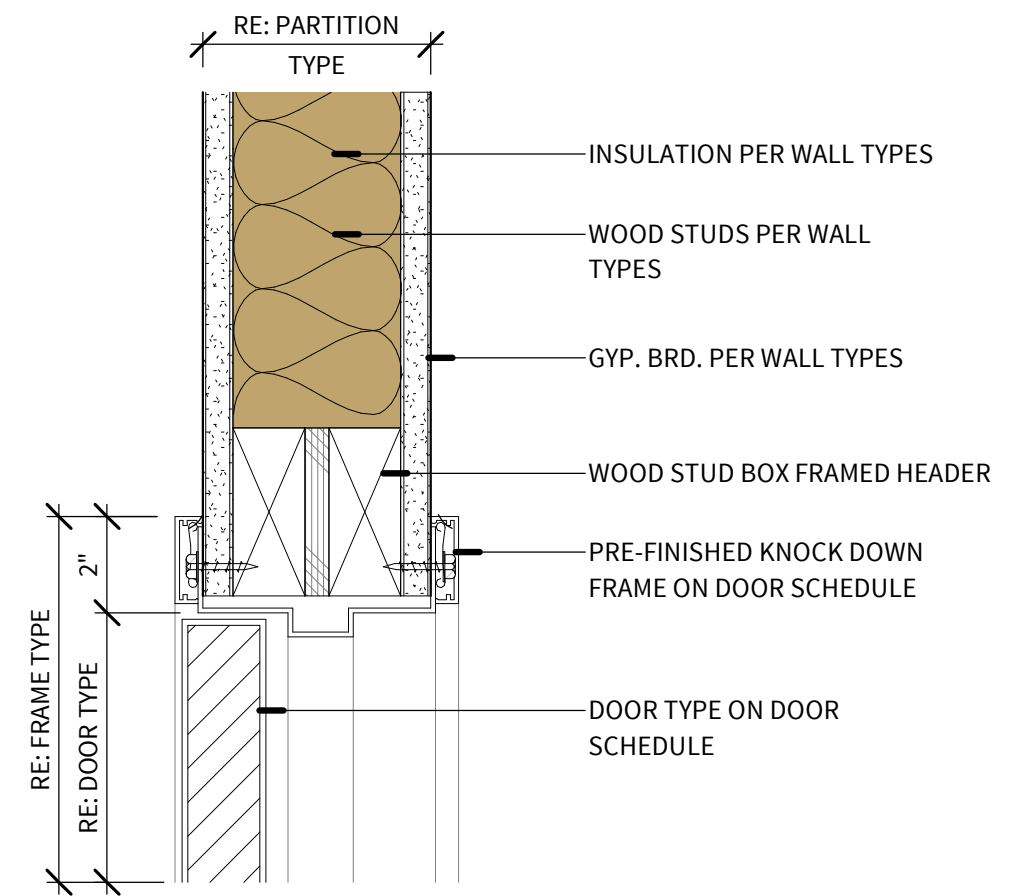
12 HM DOOR HEAD
SCALE: 3" = 1'-0"



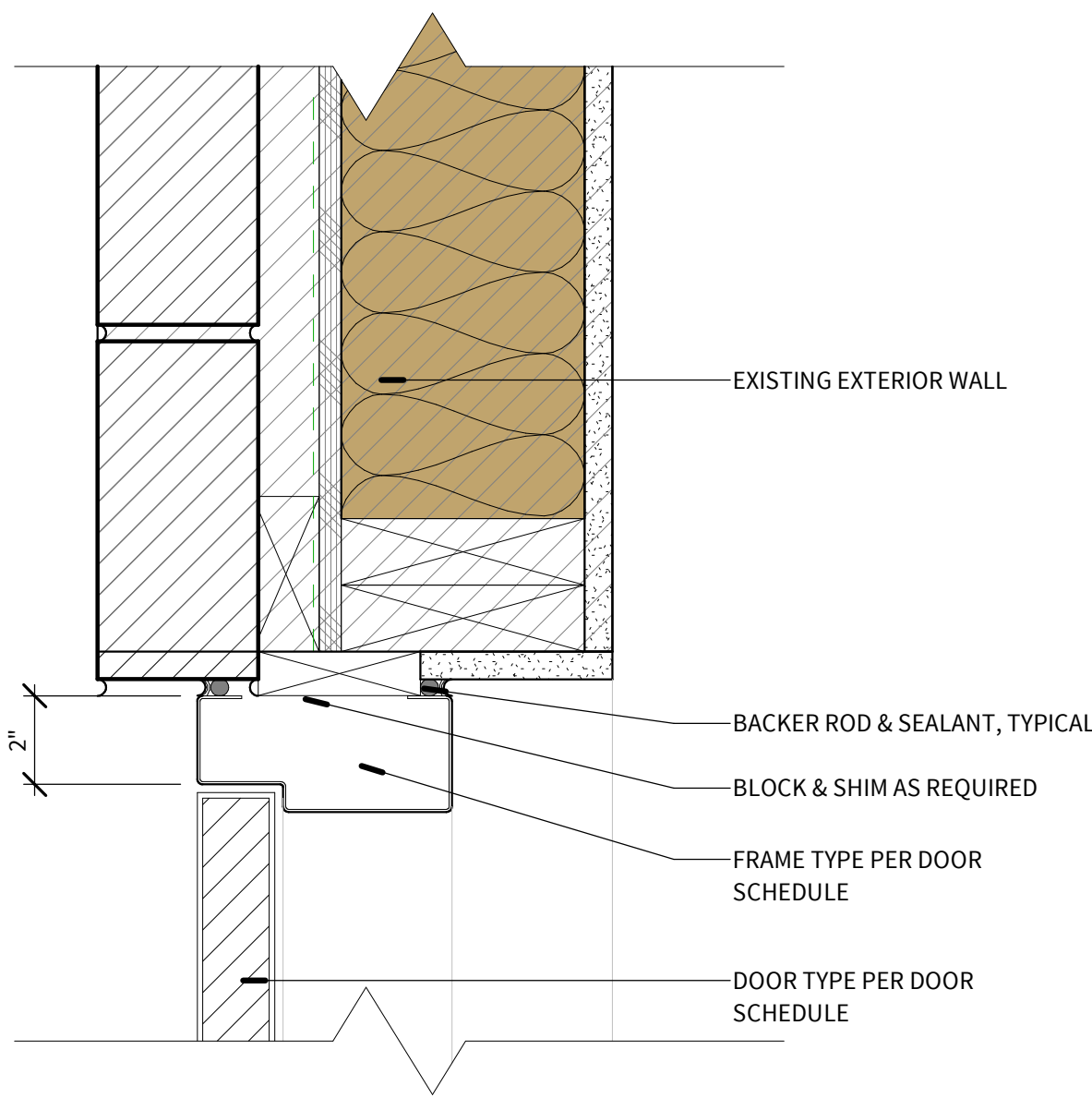
9 VINYL WINDOW HEAD
SCALE: 3" = 1'-0"



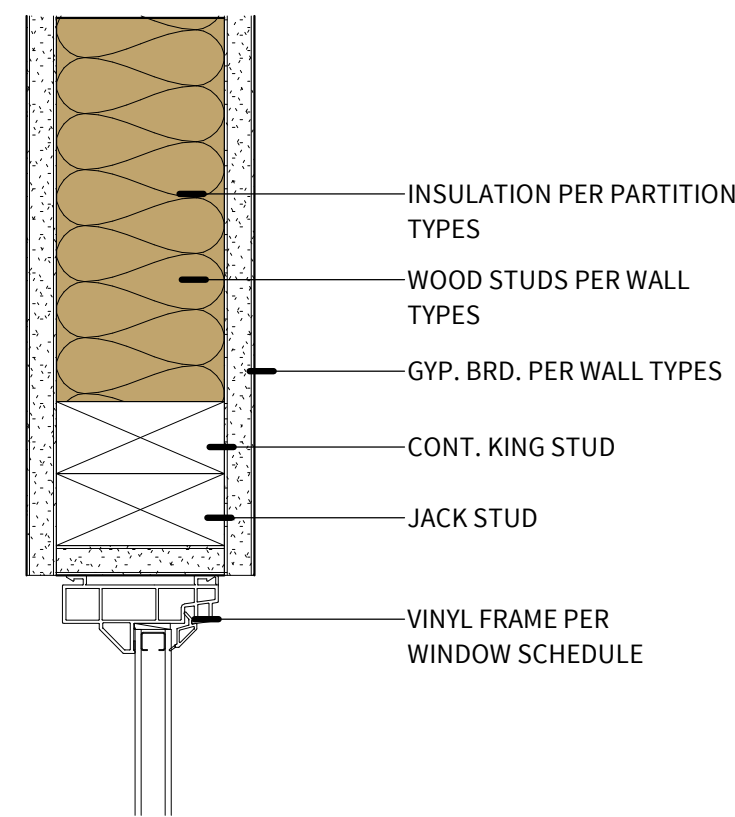
6 TICKET WINDOW HEAD
SCALE: 3" = 1'-0"



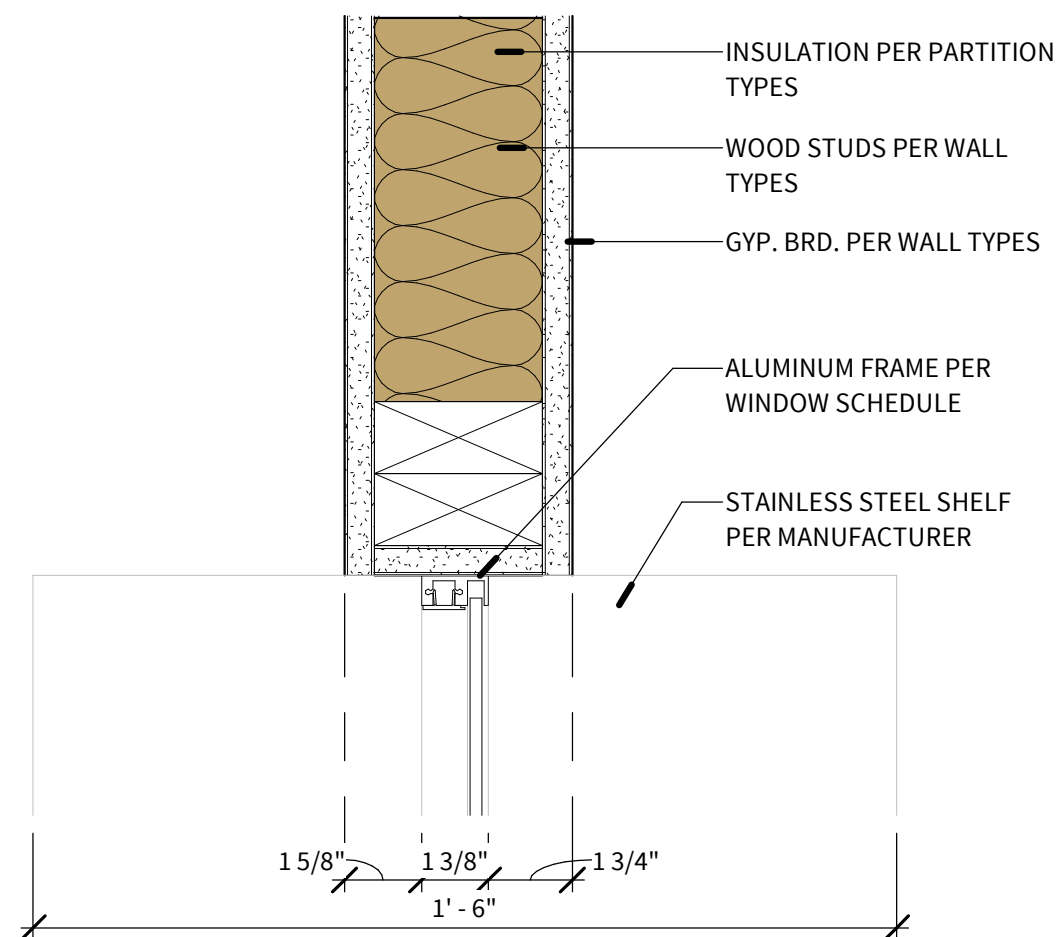
3 ALUMINUM FRAME HEAD TYP.
SCALE: 3" = 1'-0"



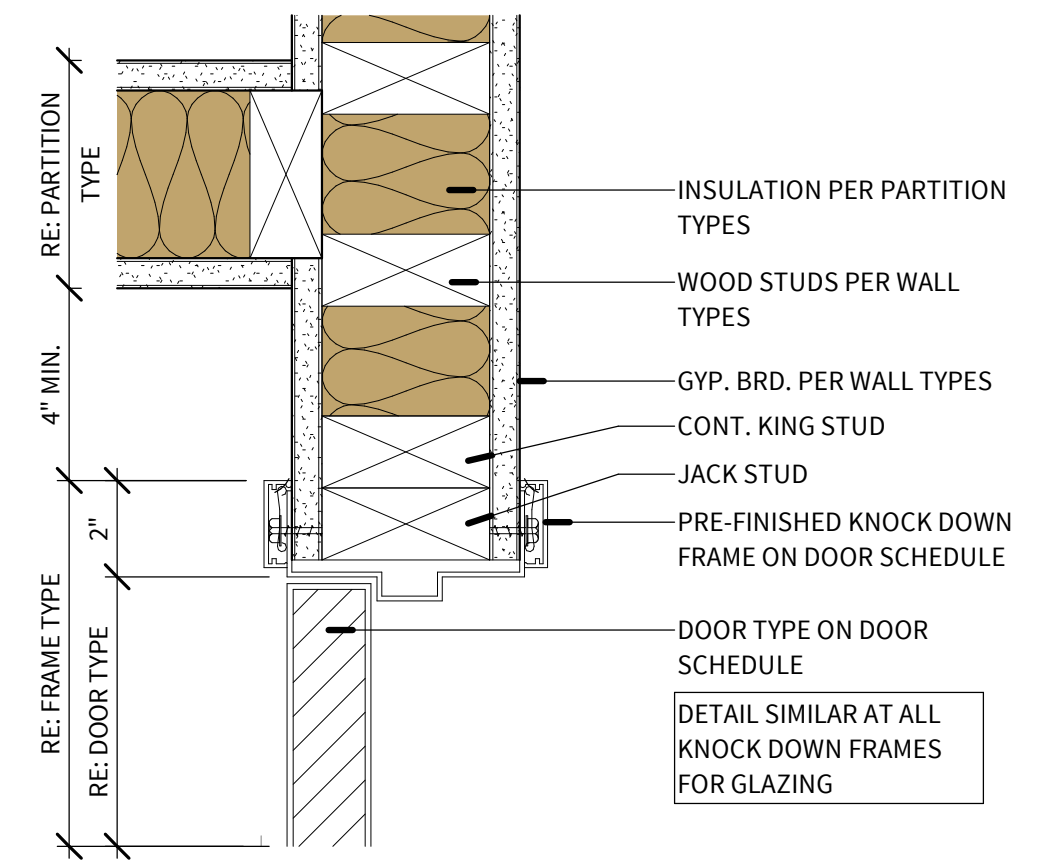
11 HM DOOR JAMB
SCALE: 3" = 1'-0"



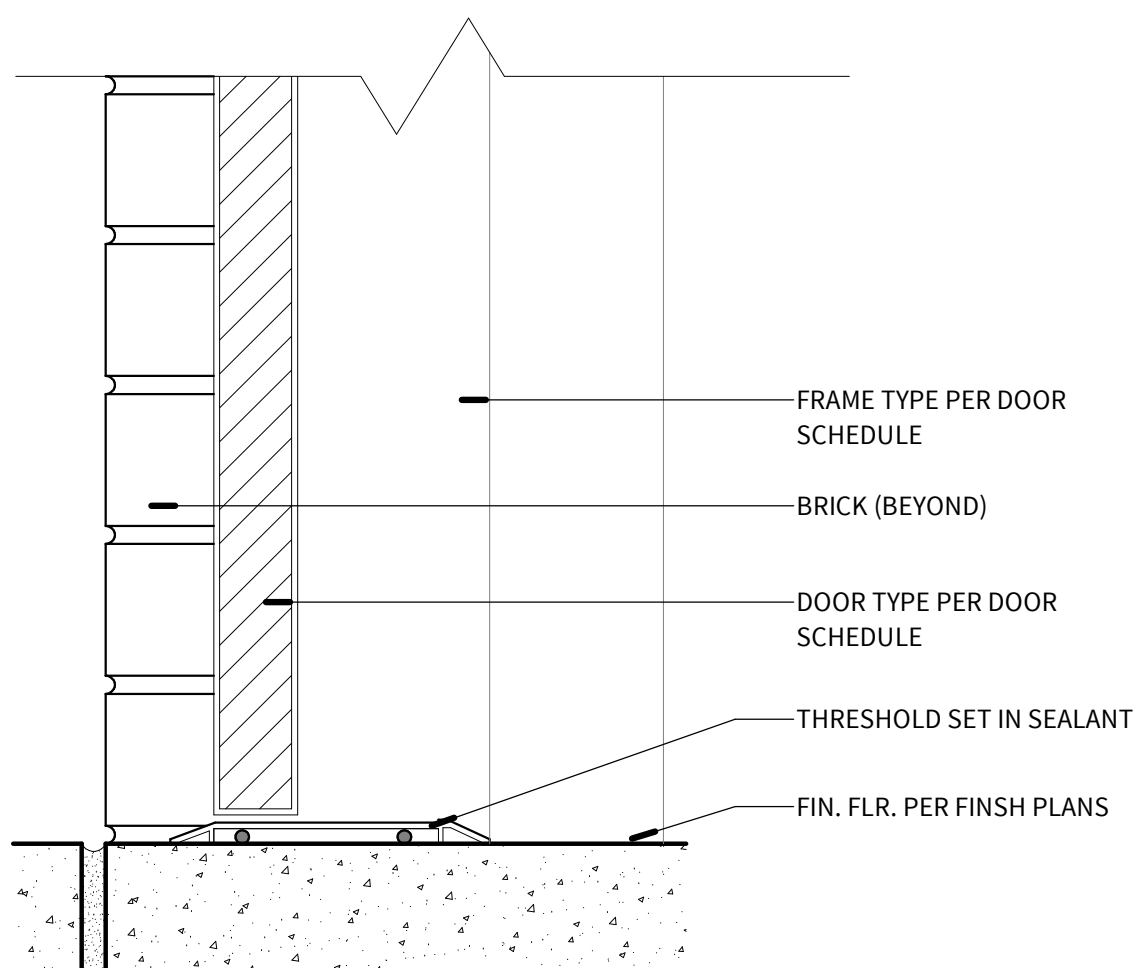
8 VINYL WINDOW JAMB
SCALE: 3" = 1'-0"



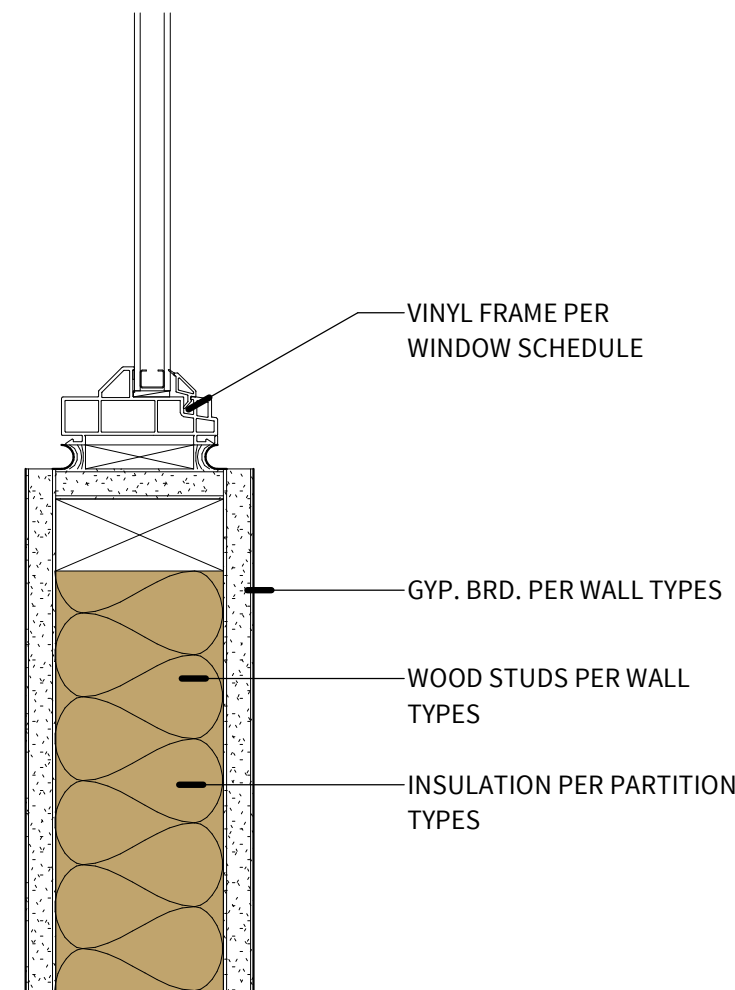
5 TICKET WINDOW JAMB
SCALE: 3" = 1'-0"



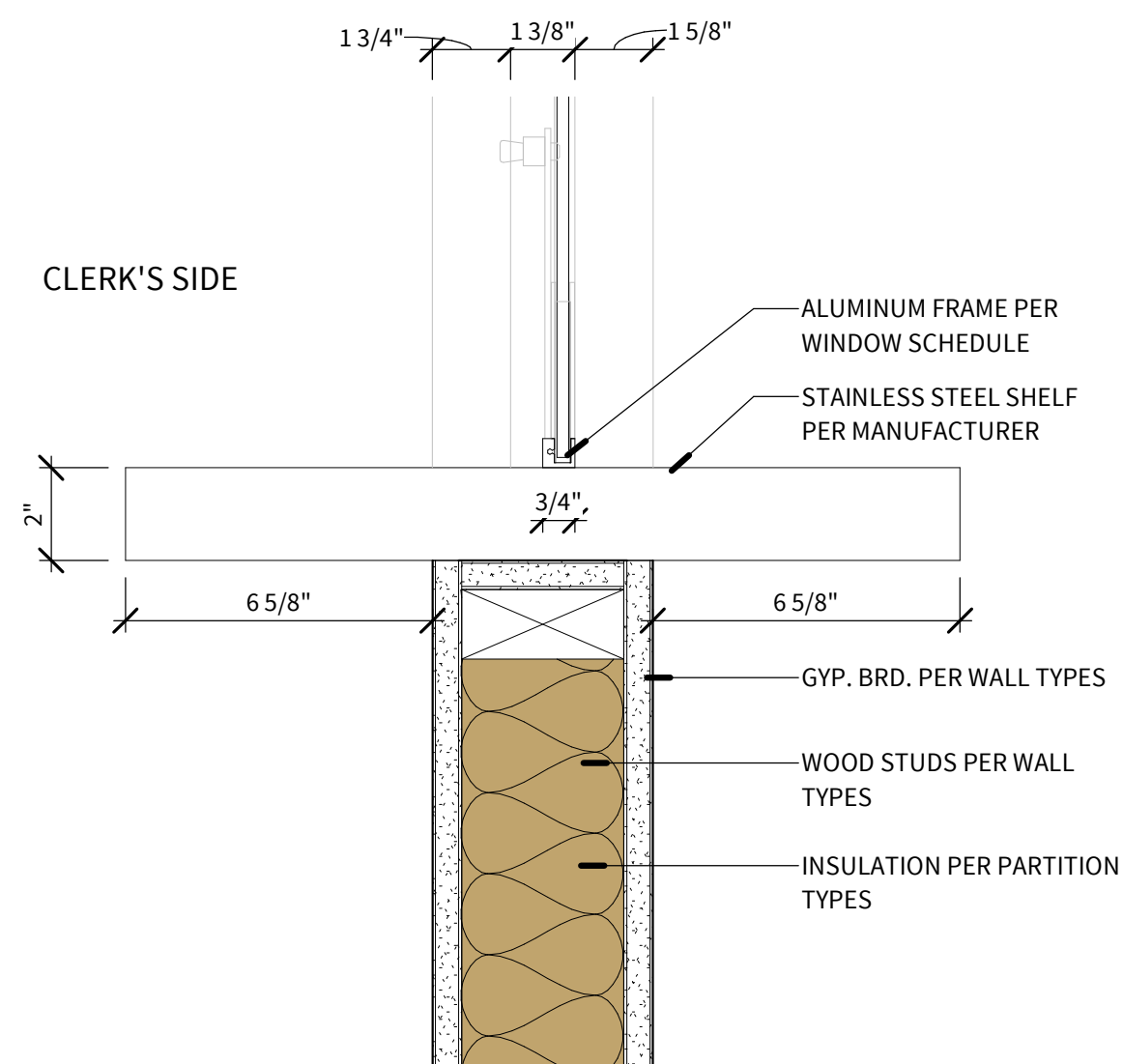
2 ALUMINUM FRAME JAMB TYP.
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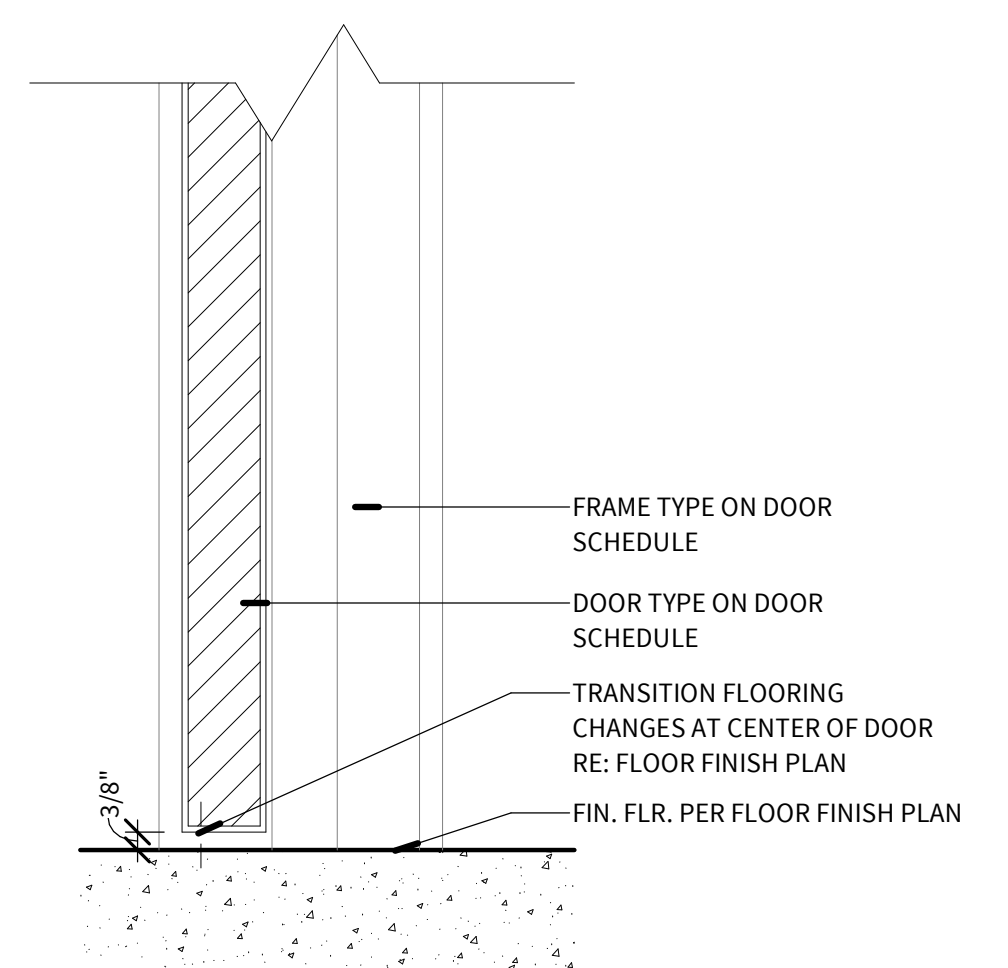
10 HM THRESHOLD
SCALE: 3" = 1'-0"



7 VINYL WINDOW SILL
SCALE: 3" = 1'-0"



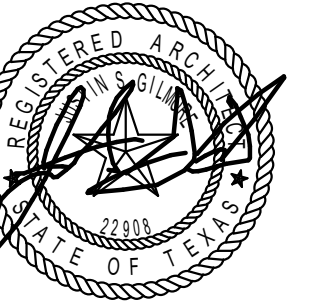
4 TICKET WINDOW SILL
SCALE: 3" = 1'-0"



1 THRESHOLD TYP.
SCALE: 3" = 1'-0"



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PROJECT INFORMATION:
ARK-TEX COUNCIL OF GOVERNMENTS

**TRANSPORTATION
OFFICE
RENOVATION**

1610 CLARKSVILLE
ST. PARIS, TEXAS
75460

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022

REVISIONS:

SHEET NAME:

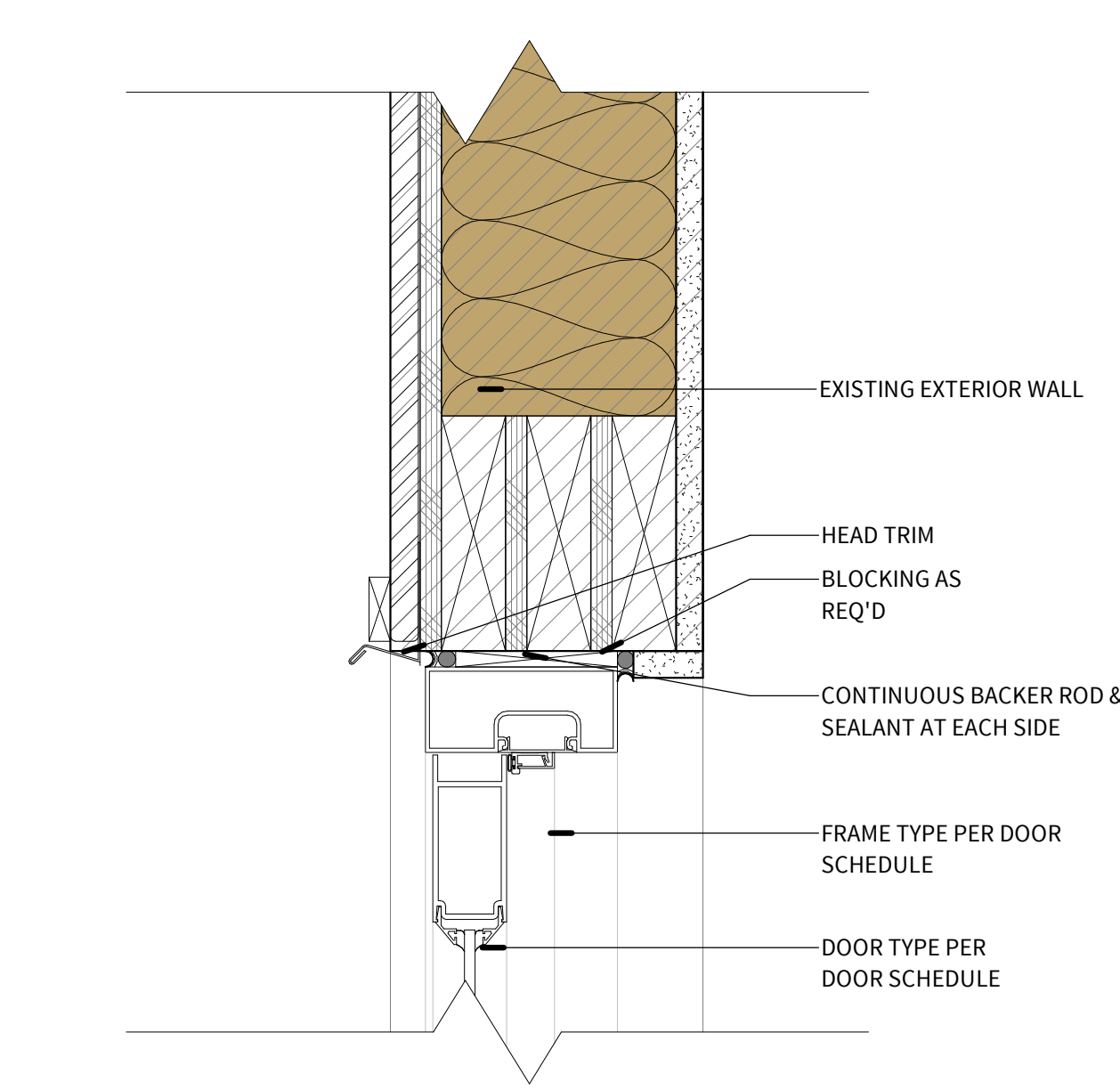
**HEAD, JAMB & SILL
DETAILS**

SHEET NUMBER:

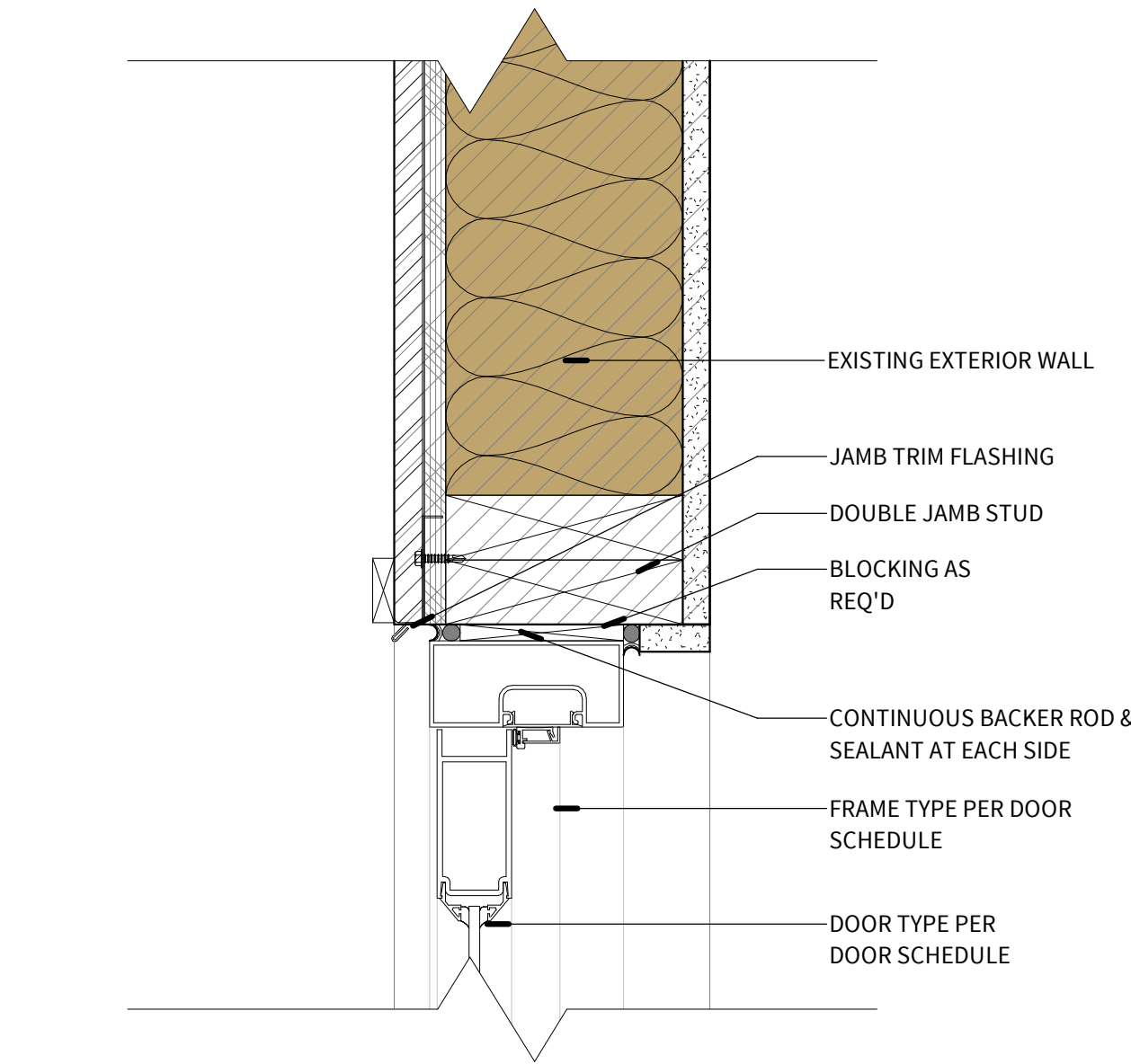
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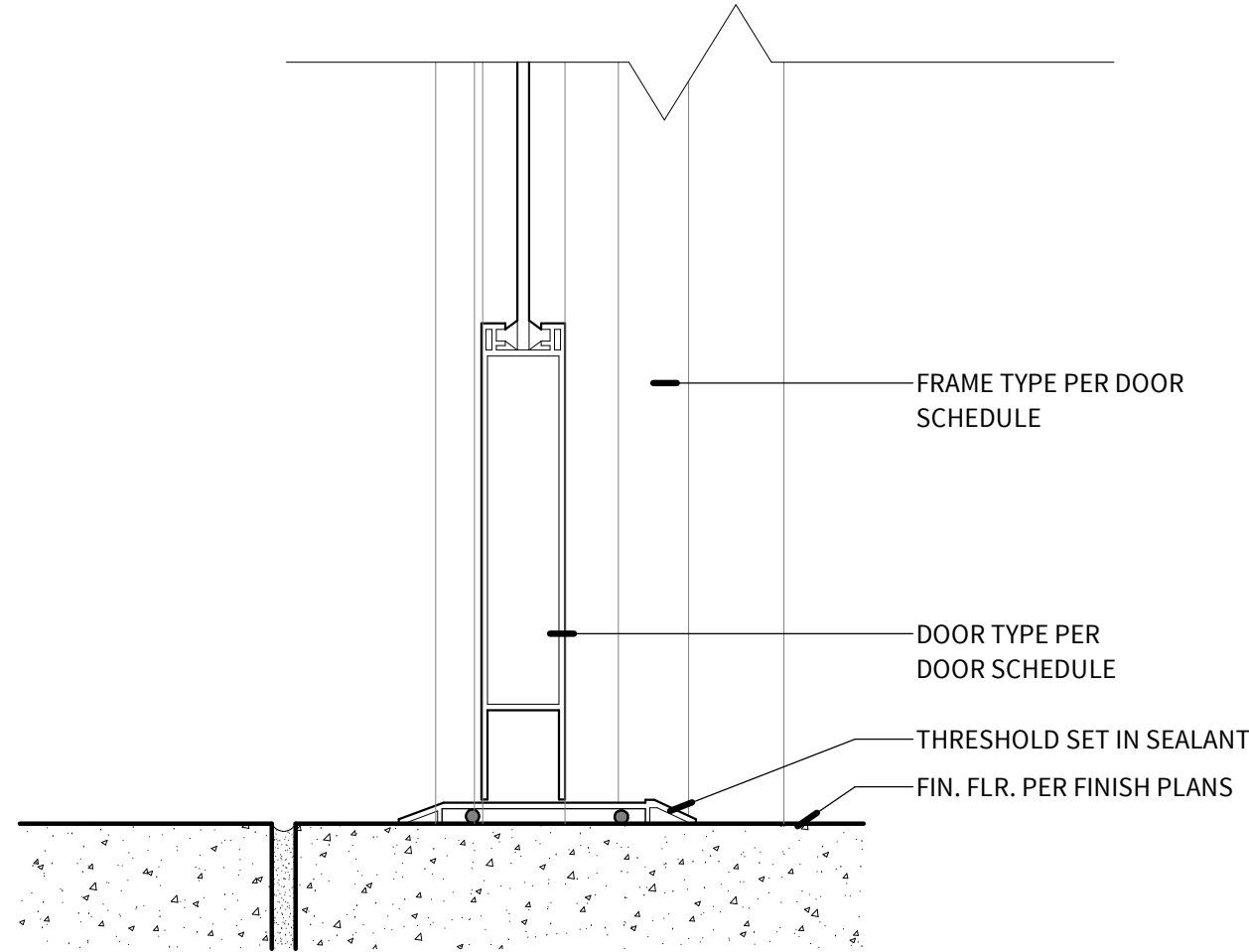
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③ **ALUMINUM DOOR HEAD**
SCALE: 3" = 1'-0"



② **ALUMINUM DOOR JAMB**
SCALE: 3" = 1'-0"



① **ALUMINUM THRESHOLD**
SCALE: 3" = 1'-0"

LEVEL
5

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PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:

SHEET NAME:

HEAD, JAMB & SILL DETAILS

SHEET NUMBER:

A303

5/31/2022 12:35:12 PM

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EXTERIOR FINISH LEGEND

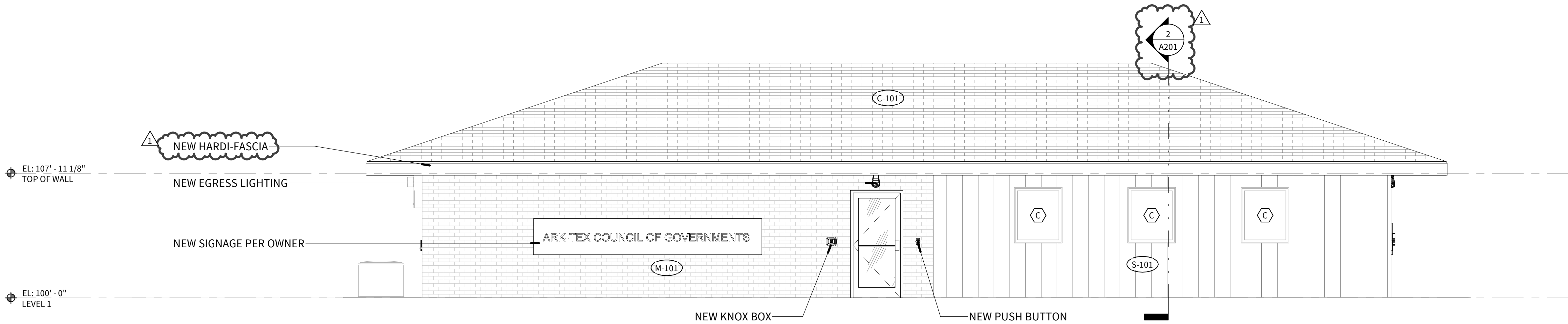
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EXISTING BOARD AND BATTEN SIDING						
S-101	EXISTING		PAINT SELECTED BY OWNER			REPAINT EXISTING BOAD AND BATTEN SIDING
EXISTING BRICK						
M-101	EXISTING		PAINT SELECTED BY OWNER			PAINT EXISTING BRICK



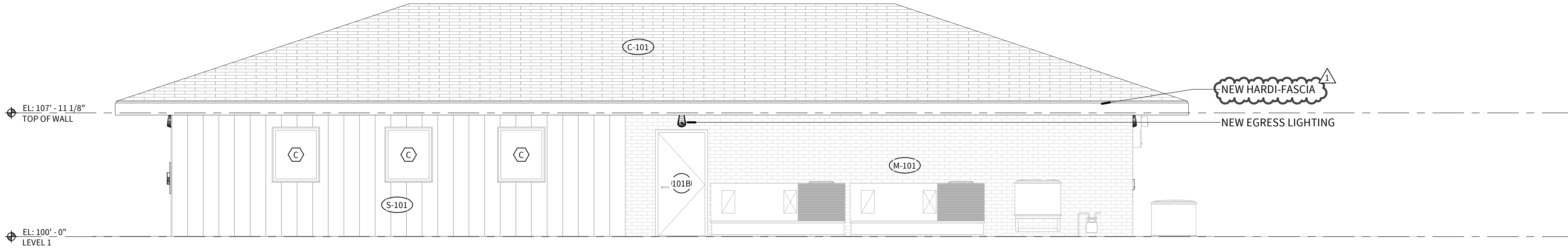
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SCALE: 1/4" = 1'-0"



3 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



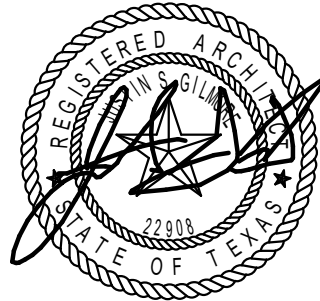
2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



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



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OFFICE
RENOVATION

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ST. PARIS, TEXAS
75460

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:
1 ASI #1 7/14/2022

SHEET NAME:

EXTERIOR
ELEVATIONS

SHEET NUMBER:

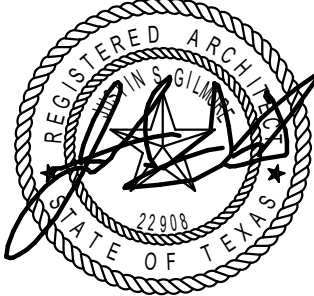
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LEVEL 5

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PROJECT INFORMATION:

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1610 CLARKSVILLE ST. PARIS, TEXAS 75460

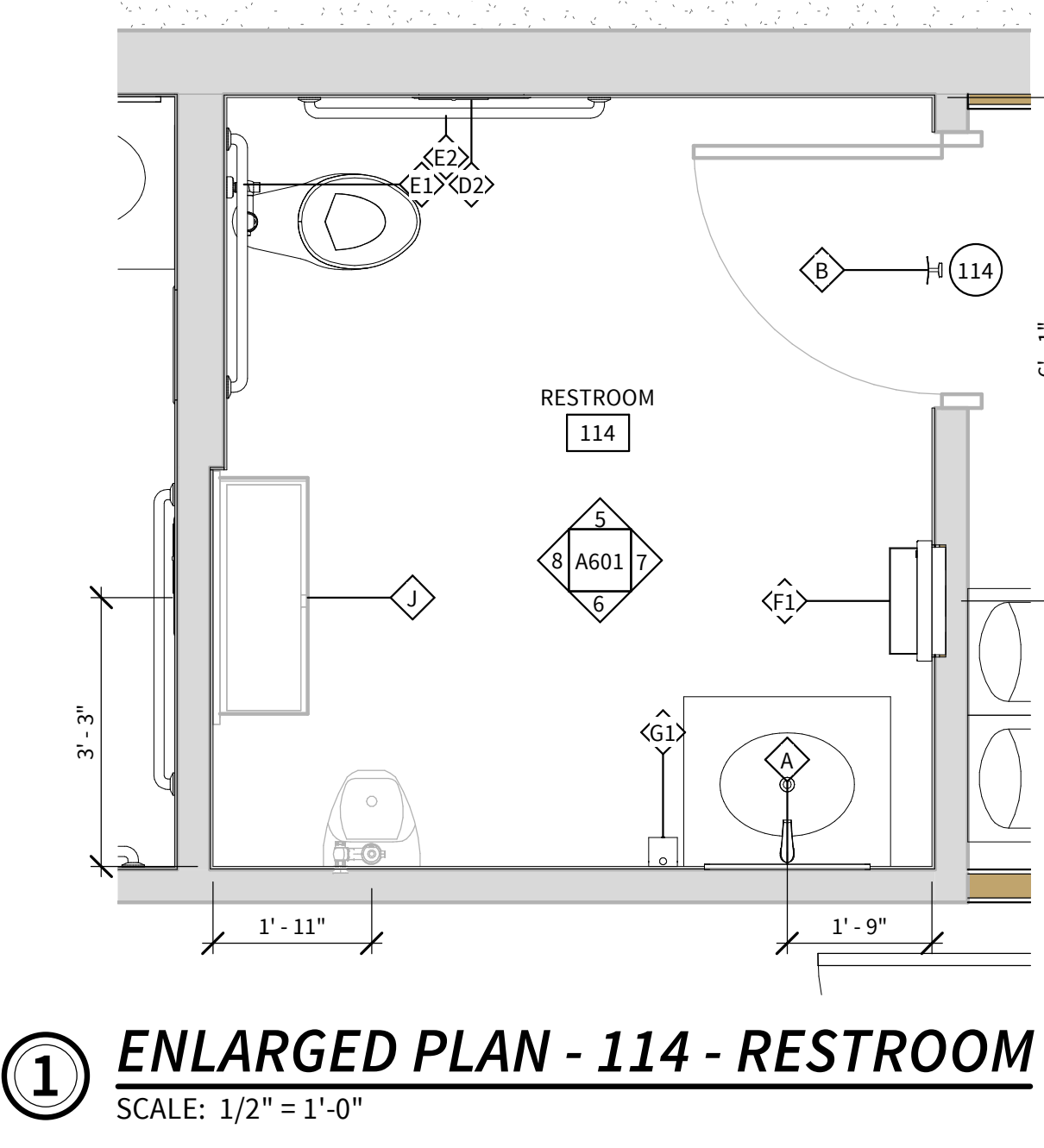
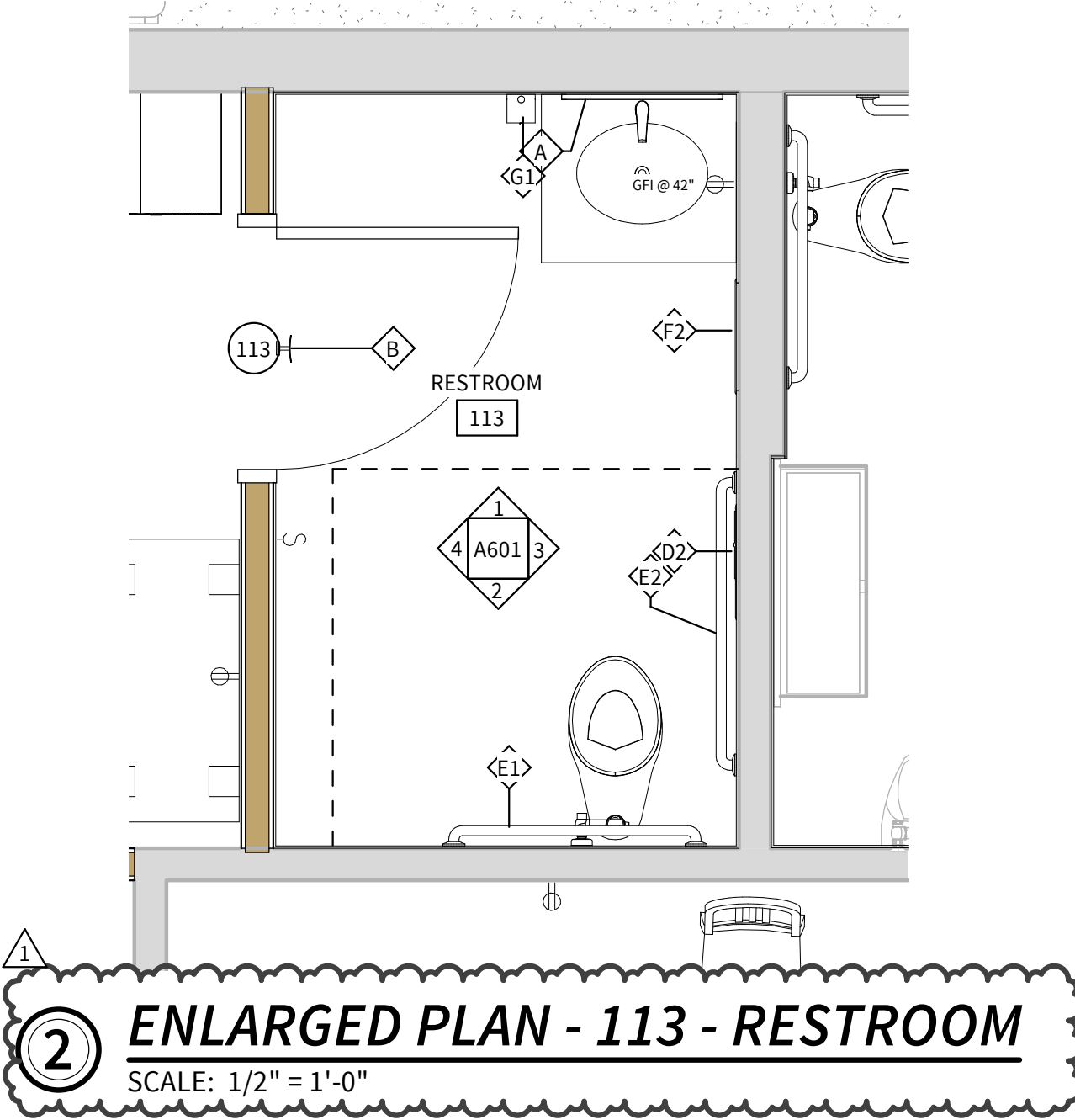
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ISSUE DATE: 5/26/2022

REVISIONS:

SHEET NAME: PARTITION TYPES

SHEET NUMBER: A402



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5

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1610 CLARKSVILLE ST. PARIS, TEXAS 75460

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:
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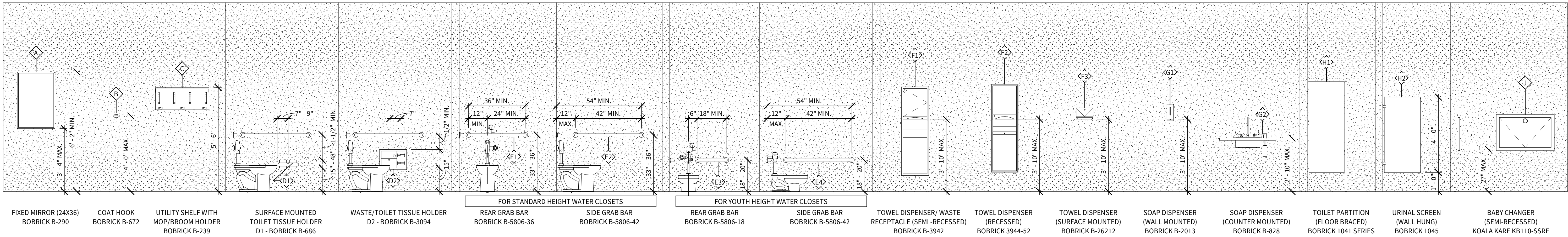
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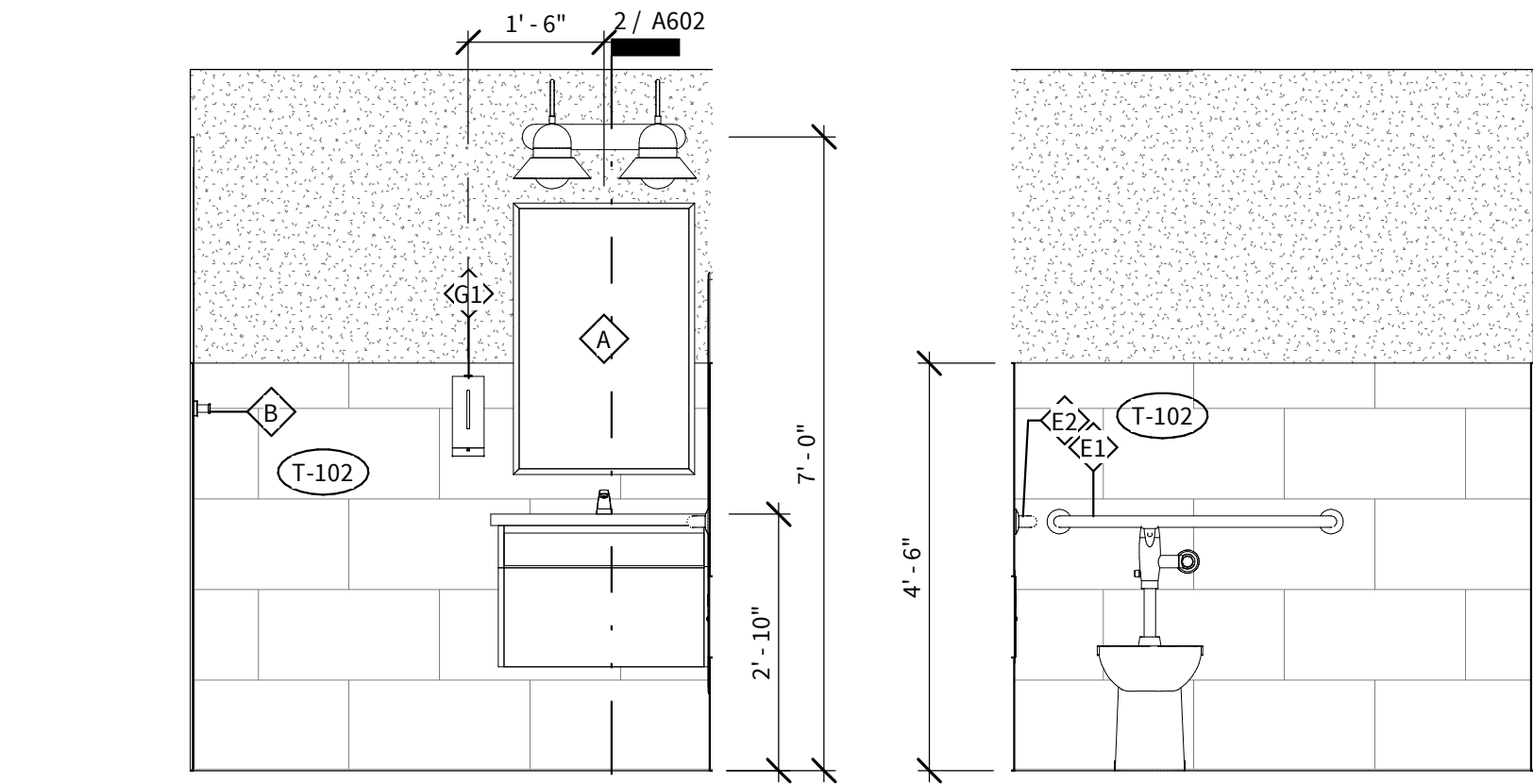
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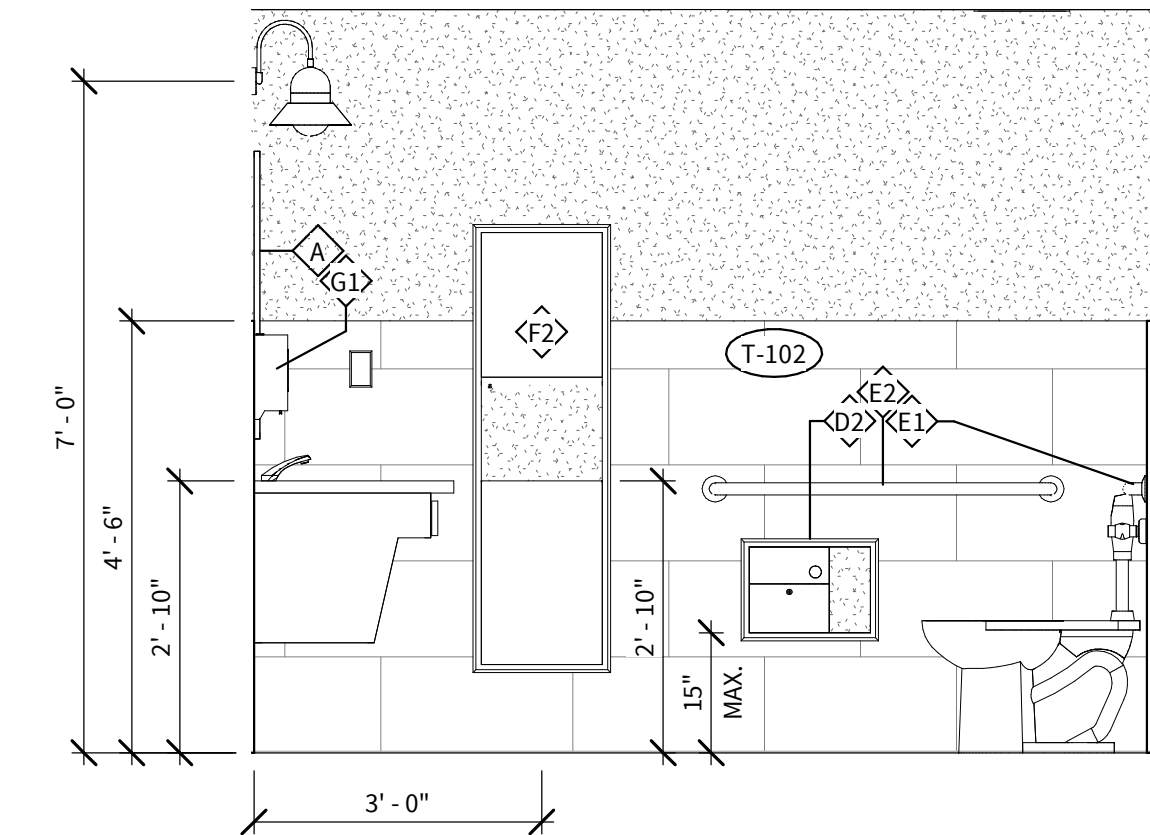


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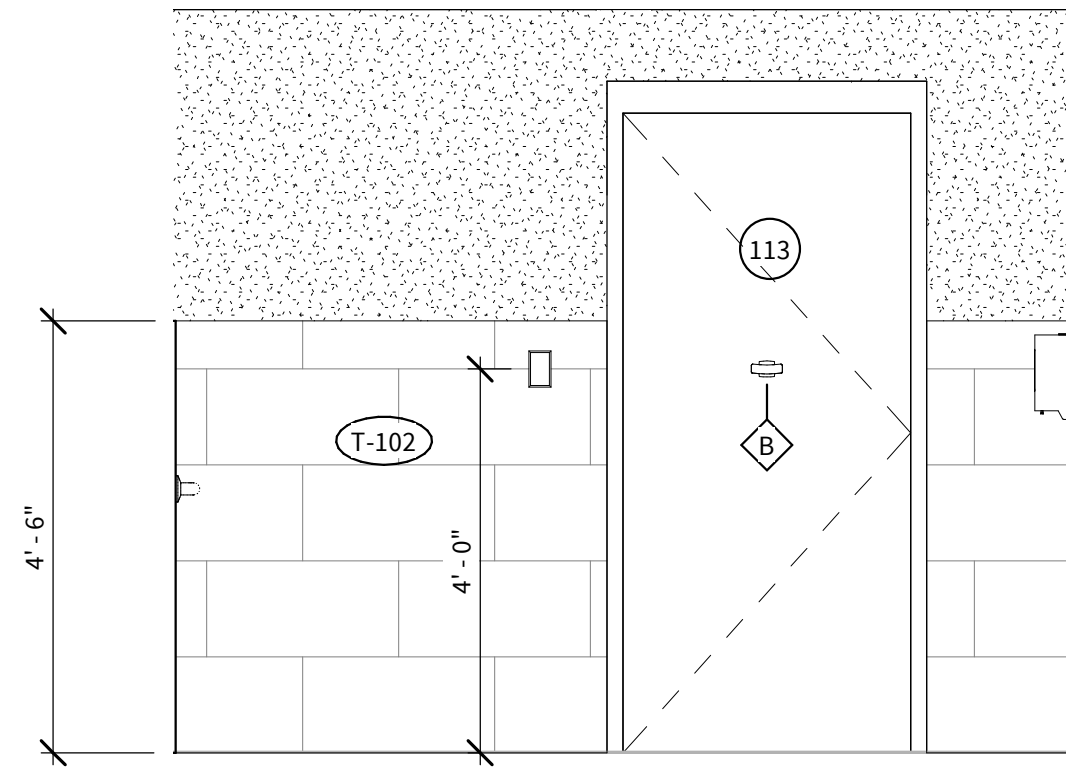
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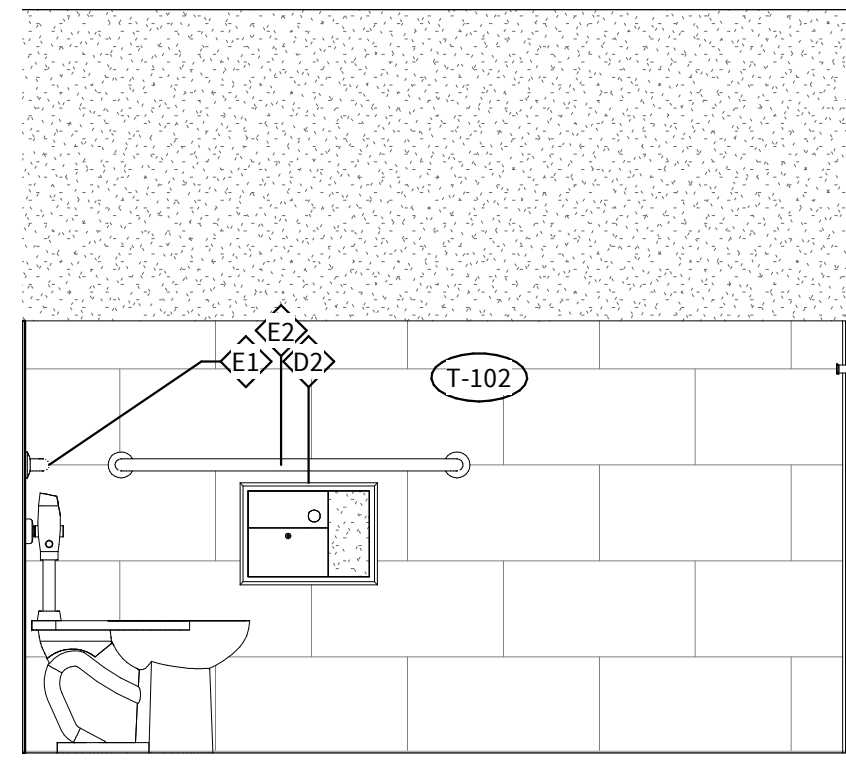
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SCALE: 1/2" = 1'-0"



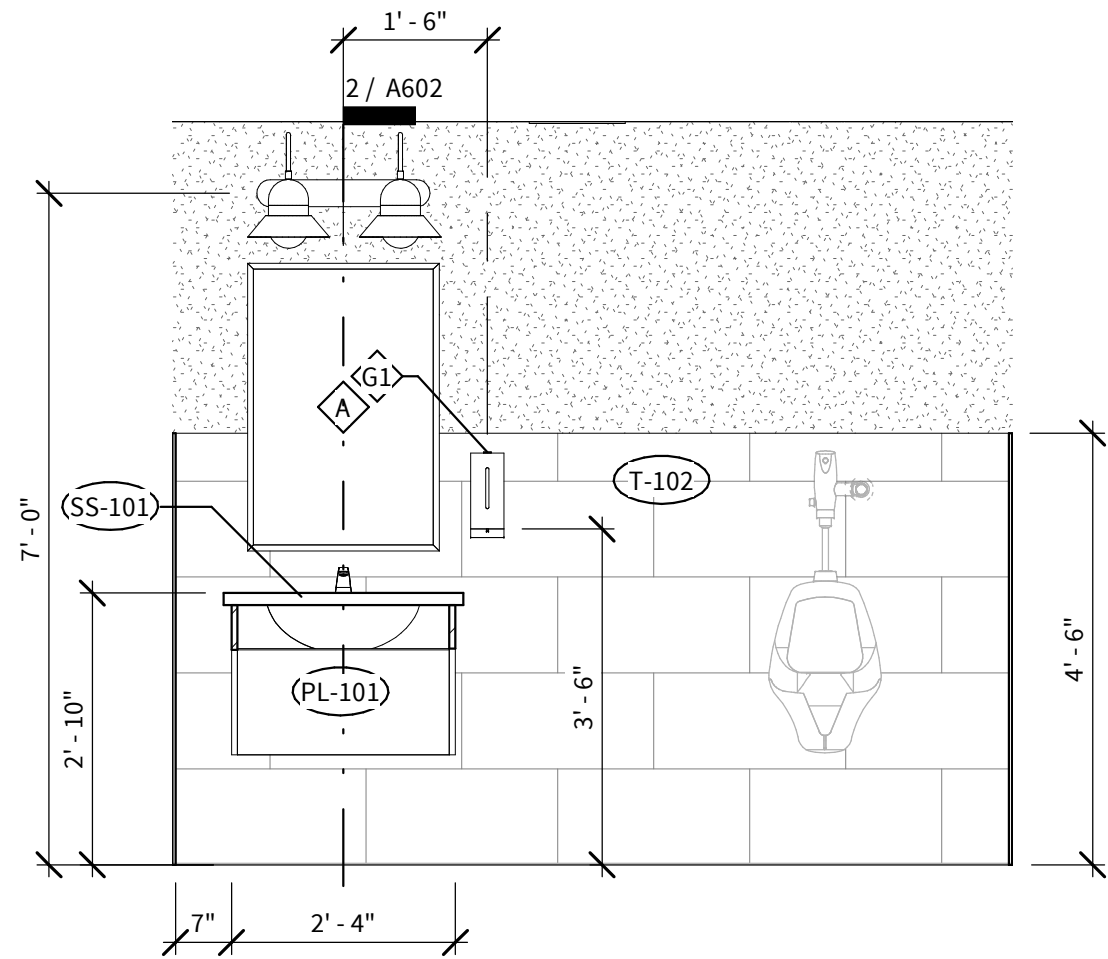
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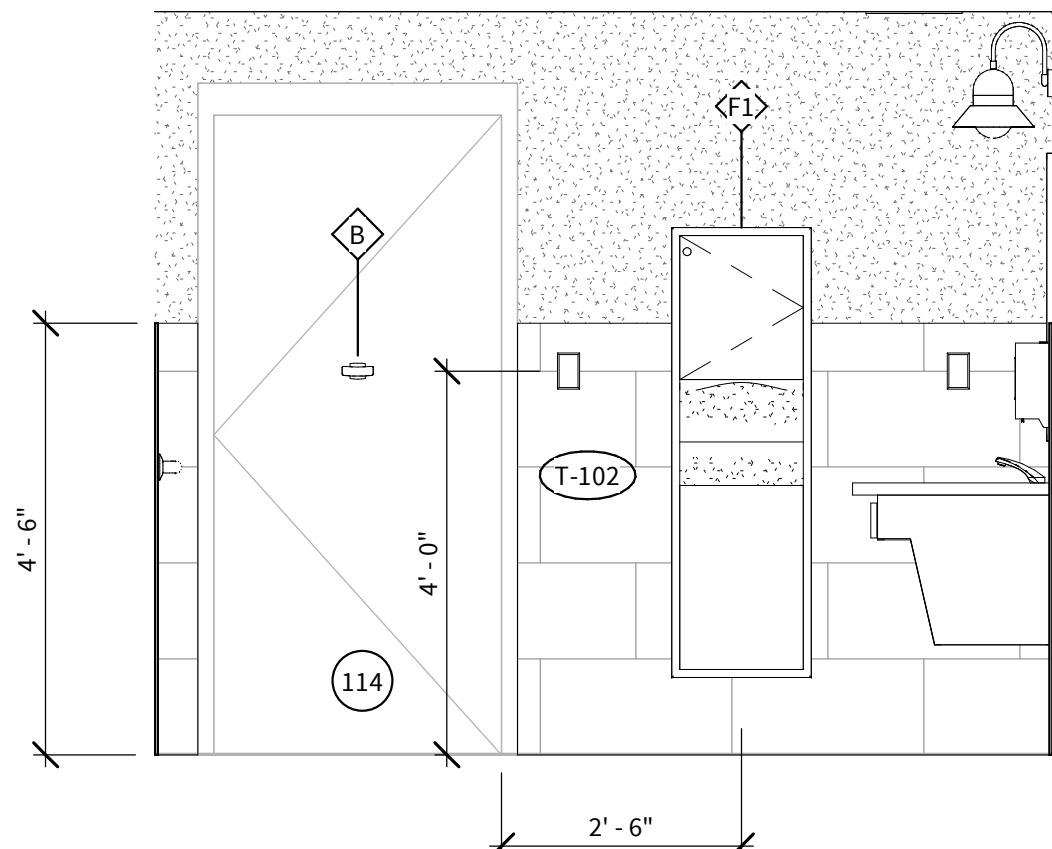
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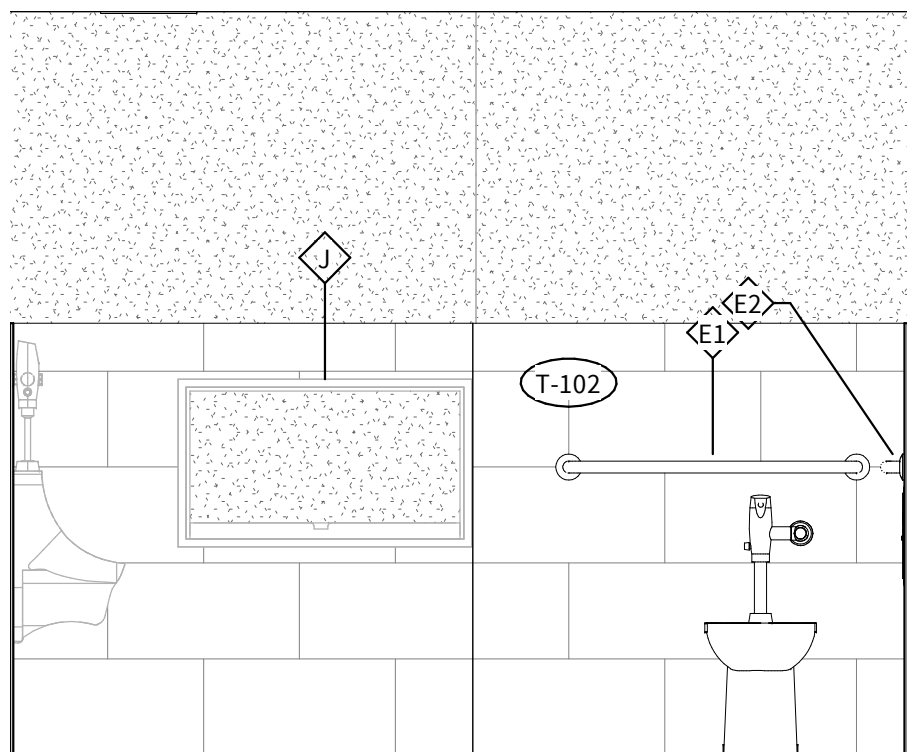
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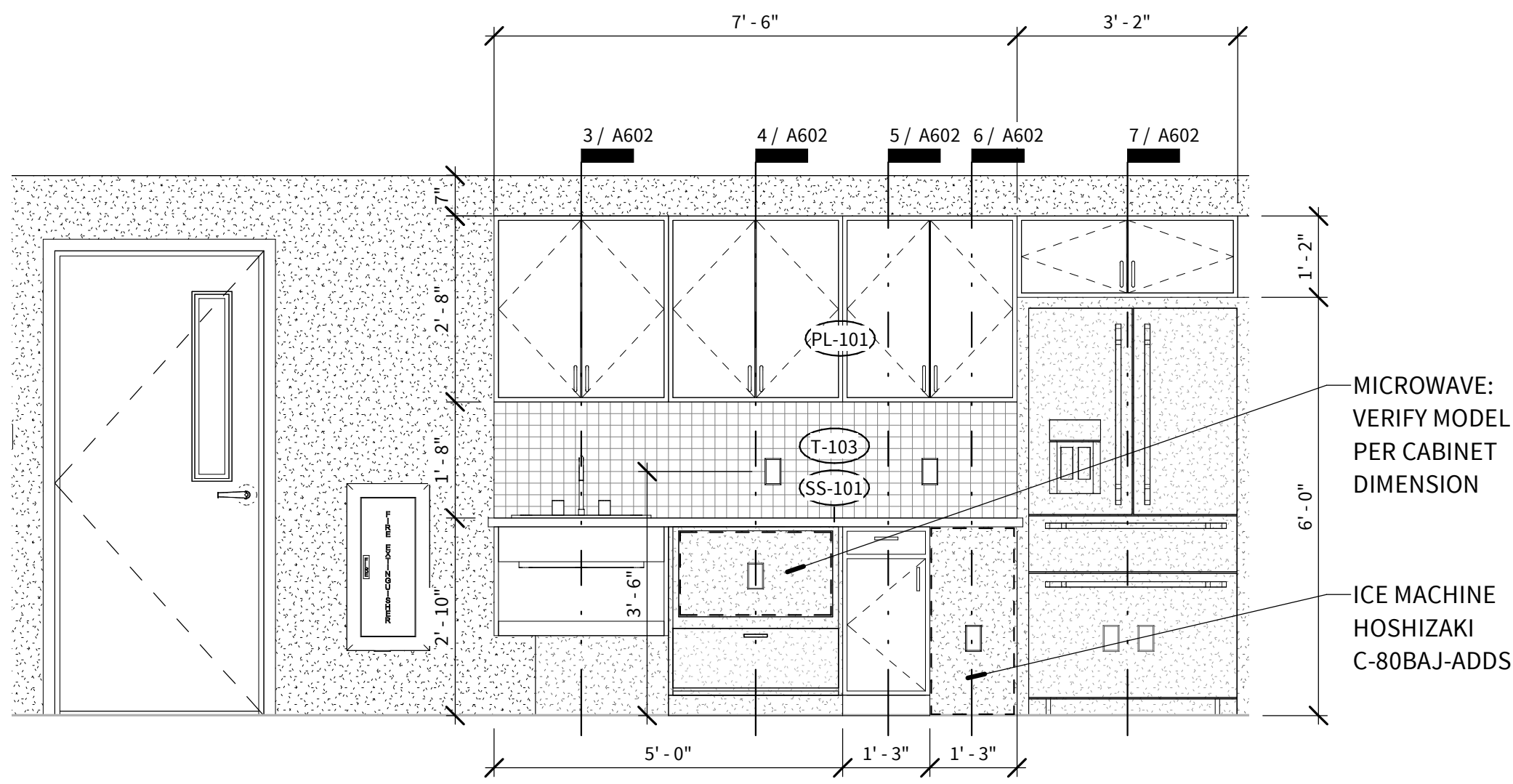
⑥ SOUTH ELEVATION
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⑦ EAST ELEVATION
SCALE: 1/2" = 1'-0"



⑧ WEST ELEVATION
SCALE: 1/2" = 1'-0"



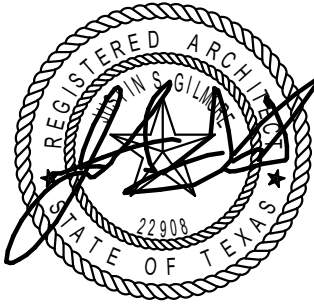
⑨ SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

MICROWAVE:
VERIFY MODEL
PER CABINET
DIMENSION

ICE MACHINE
HOSHIZAKI
C-80BAJ-ADDS



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75460

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:
△ ASI #1 7/14/2022

SHEET NAME:

INTERIOR
ELEVATIONS

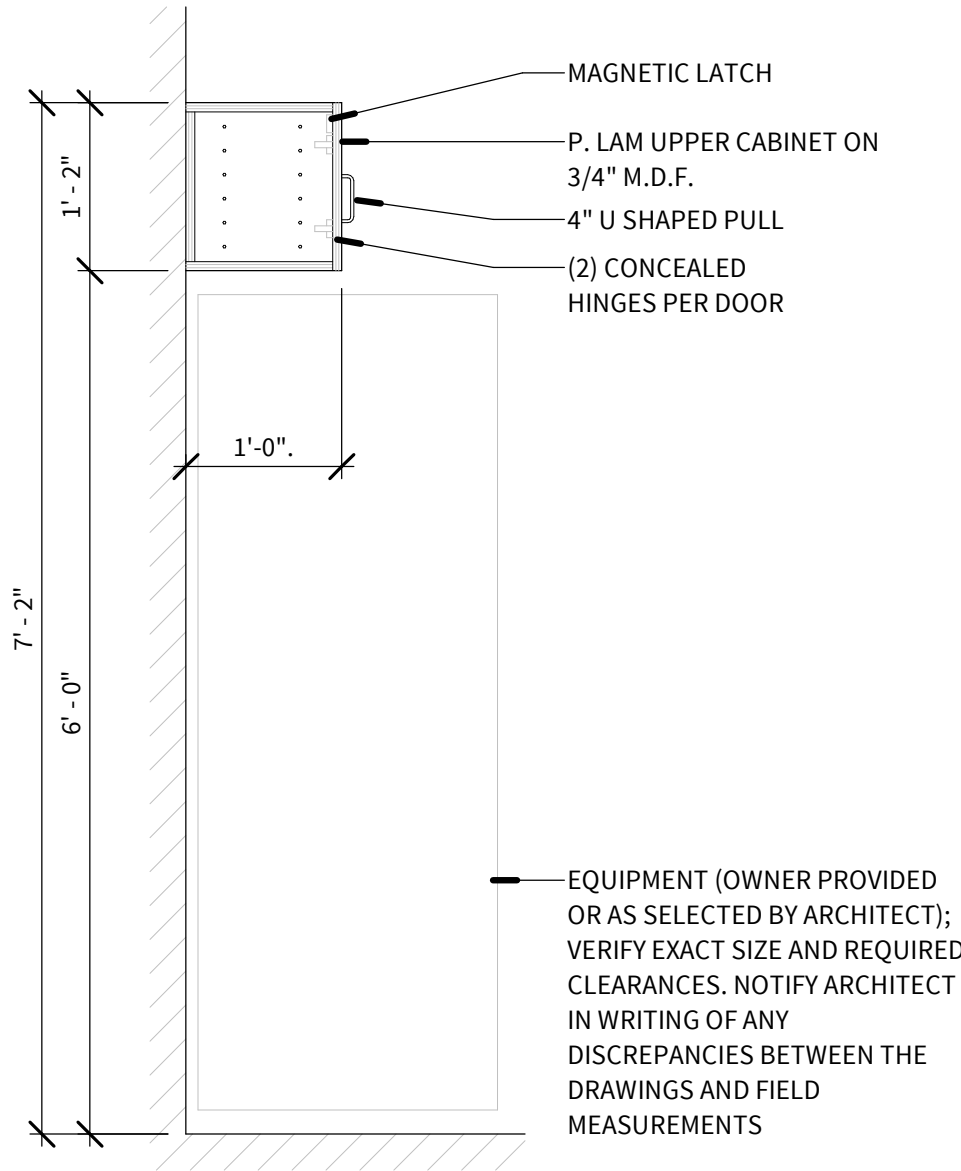
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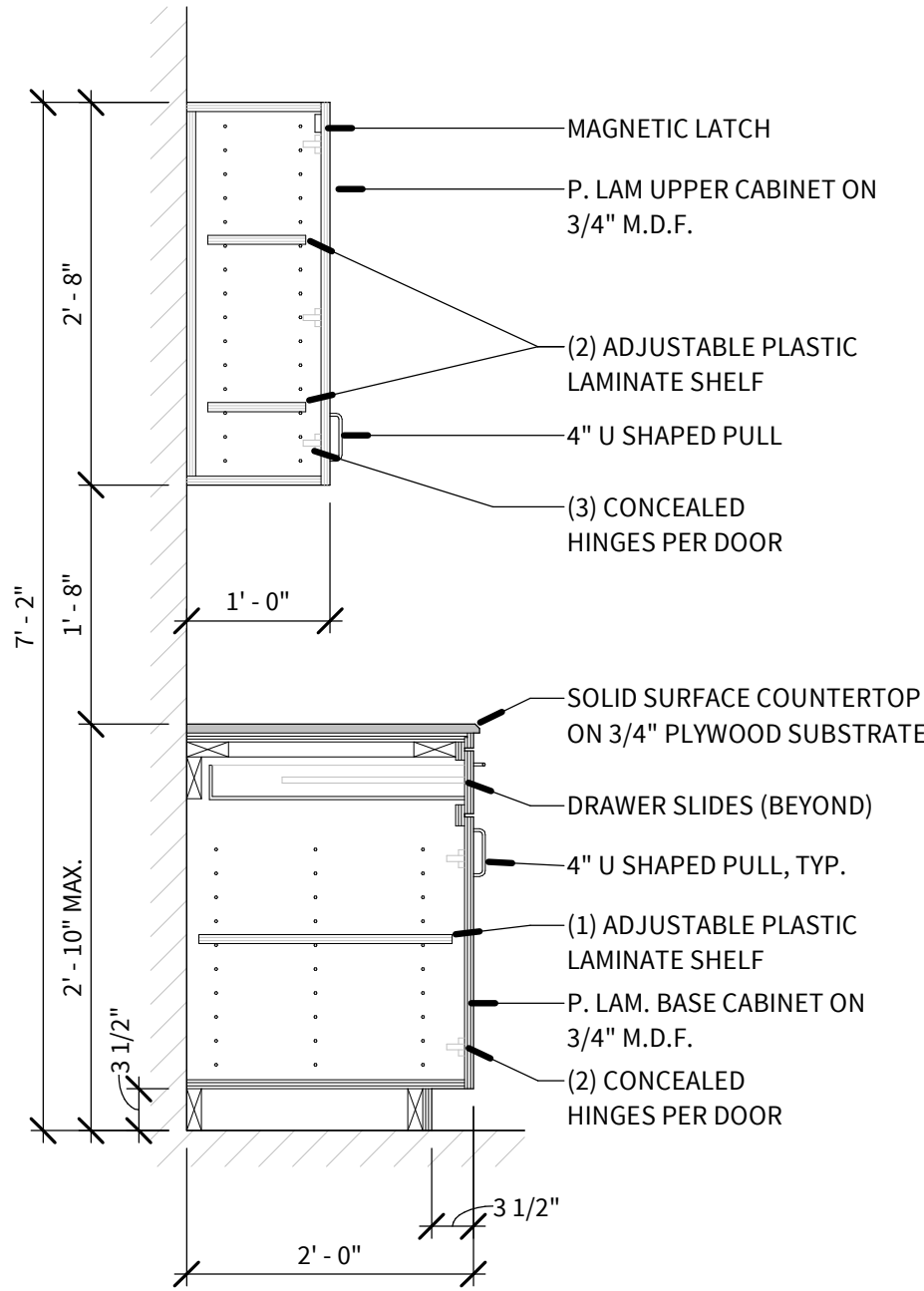
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MILLWORK NOTES

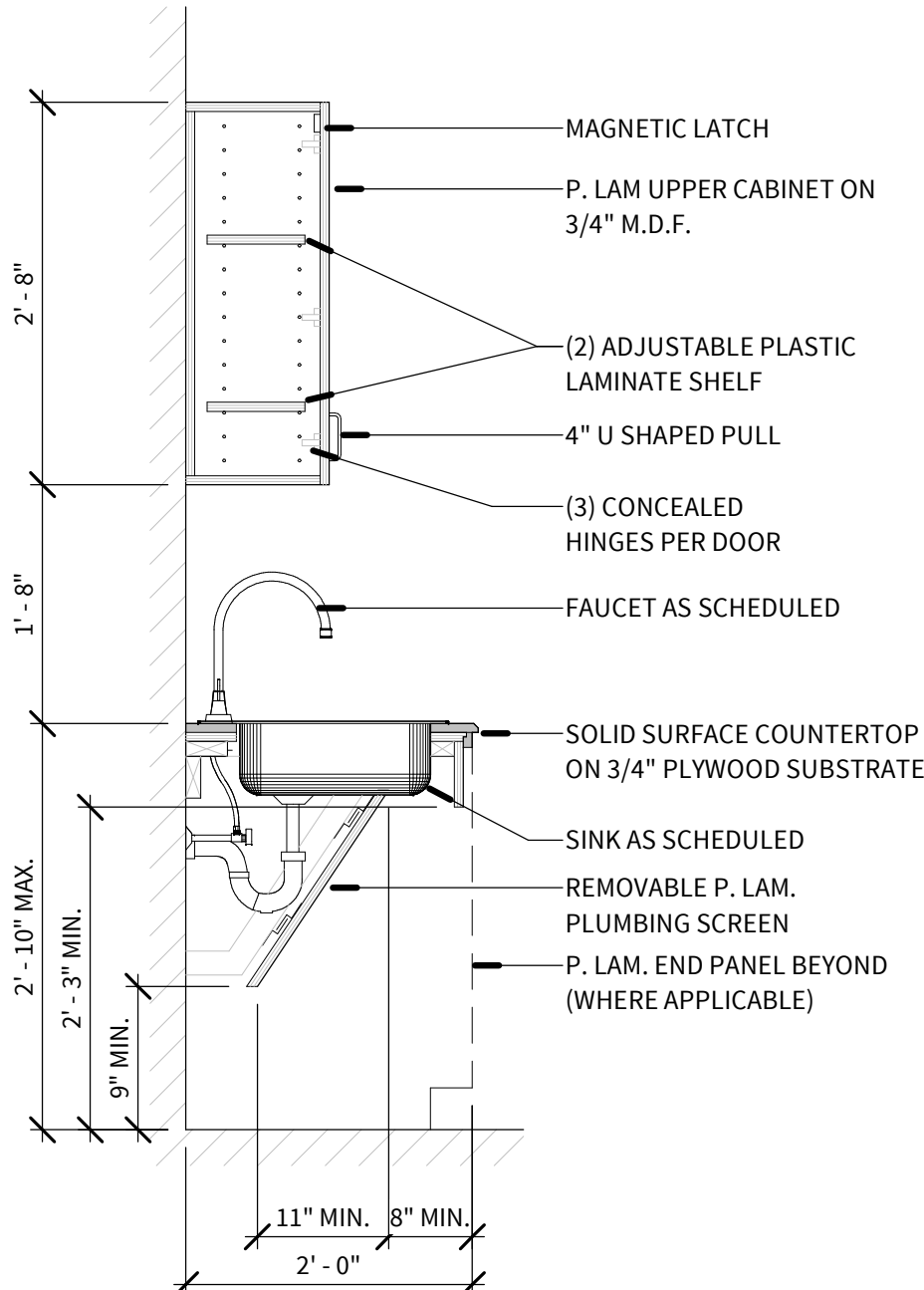
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2. ALL SOLID SURFACE TO BE SS-101 UNLESS NOTED OTHERWISE.



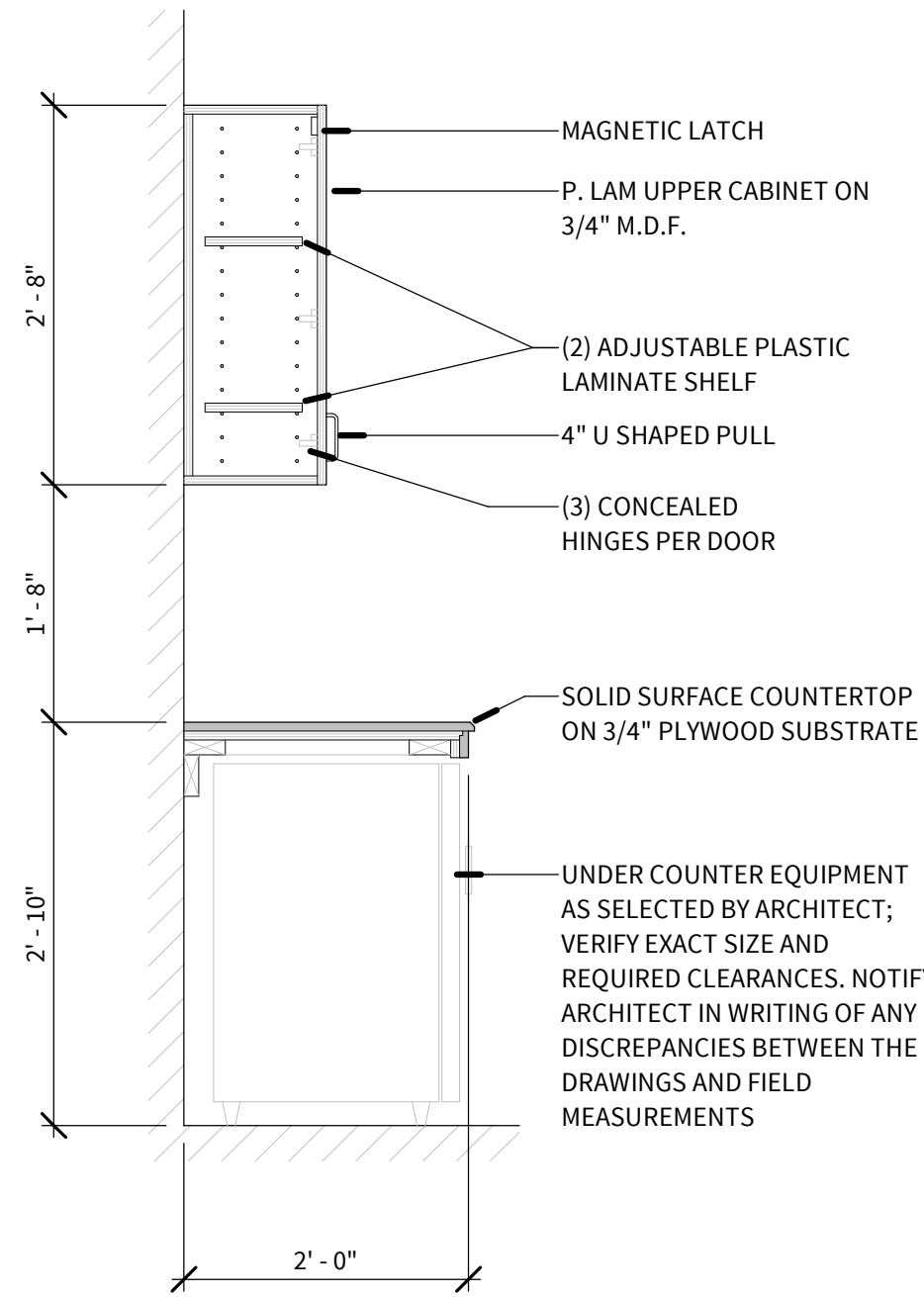
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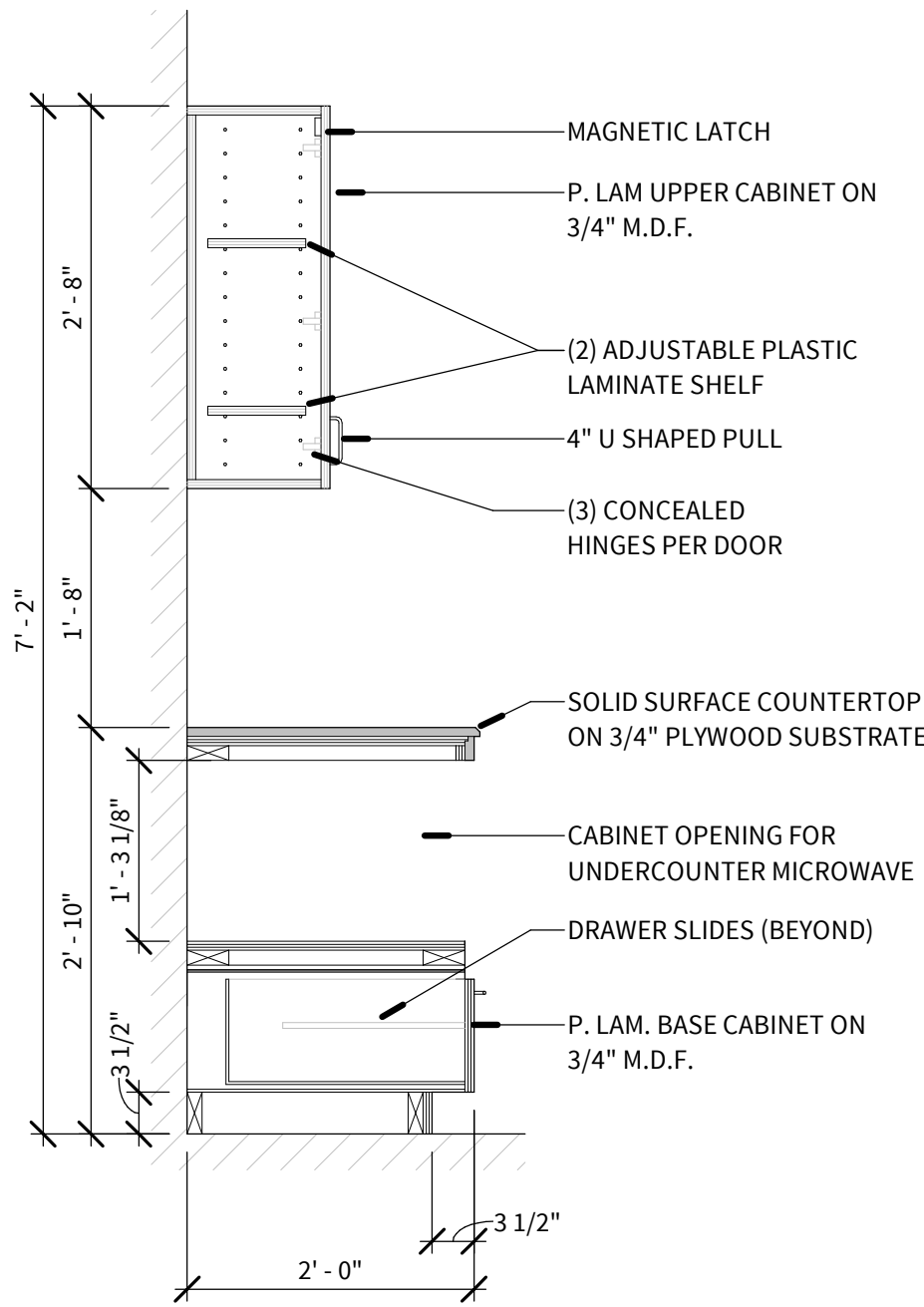
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SCALE: 3/4" = 1'-0"



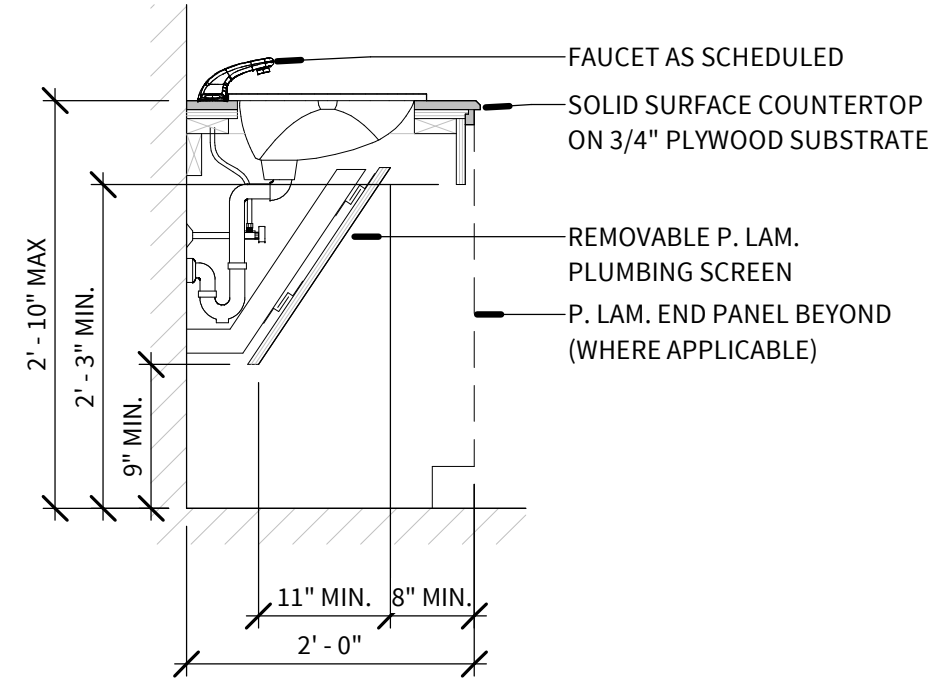
3 MILLWORK SECTION
SCALE: 3/4" = 1'-0"



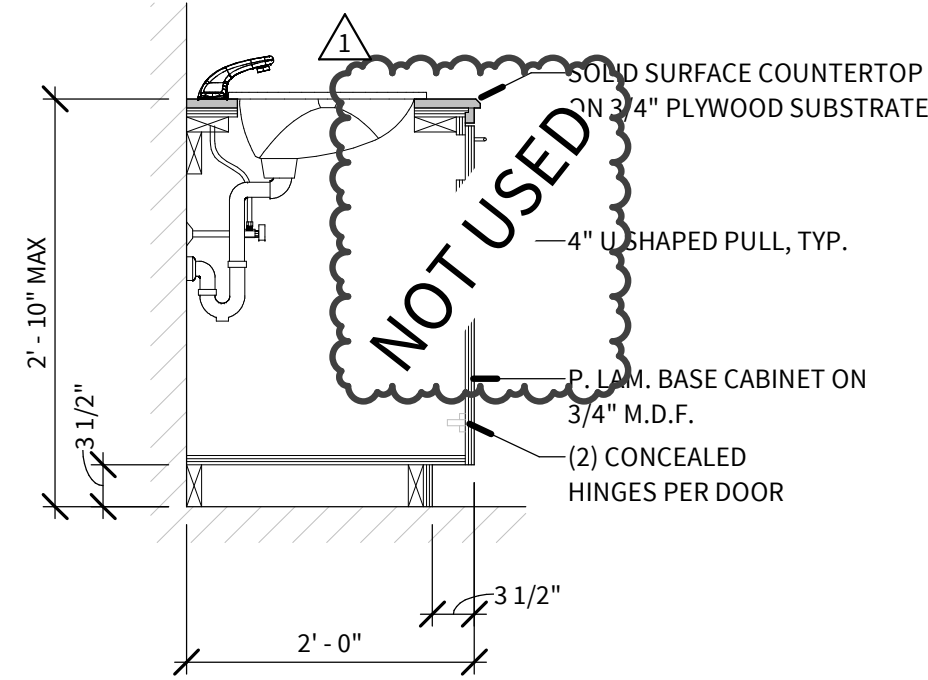
6 MILLWORK SECTION
SCALE: 3/4" = 1'-0"



4 MILLWORK SECTION
SCALE: 3/4" = 1'-0"



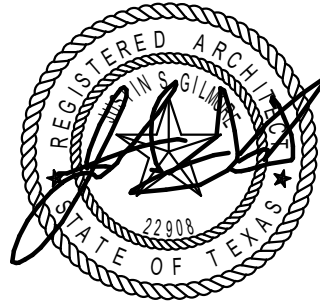
2 MILLWORK SECTION
SCALE: 3/4" = 1'-0"



1 MILLWORK SECTION
SCALE: 3/4" = 1'-0"



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ASI #1
7/14/2022

PROJECT INFORMATION:

ARK-TEX COUNCIL OF
GOVERNMENTS

TRANSPORTATION
OFFICE
RENOVATION

1610 CLARKSVILLE
ST. PARIS, TEXAS
75460

PROJECT NUMBER: 21-90T
ISSUE DATE: 5/26/2022
REVISIONS:
△ ASI #1 7/14/2022

SHEET NAME:

MILLWORK SECTIONS

SHEET NUMBER:

A602

7/14/2022 11:44:05 AM

WALL FINISH TYPES

WF-1

WF-2

WF-3

WF-4

REMARKS (RE:)

A. XXXXXXXXXXXXX

MATERIAL LEGEND

CONCRETE (SEALED)

CARPET TILE

LUXURY VINYL TILE

PORCELAIN TILE

INTERIOR FINISH NOTES

- ALL WALLS TO BE PAINTED 'P-101' UNLESS NOTED OTHERWISE.
- ALL GYP CEILINGS TO BE PAINTED 'P-102' UNLESS NOTED OTHERWISE.
- ALL FURR-DOWNS & HEADERS TO BE PAINTED 'P-102' UNLESS NOTED OTHERWISE.
- ALL WALL TILE GROUT LINES TO ALIGN WITH FLOOR TILE GROUT LINES.
- PROVIDE CAULK AT THE FOLLOWING AREAS;
 - DOOR FRAMES TO WALL, CEILING, FLOOR & BASE
 - WINDOWS TO WALL
 - PLUMBING FIXTURES TO WALL & FLOOR
 - CASEWORK TO WALL, BENEATH BASE CABINETS & BOTTOM OF UPPER CABINETS

FINISH TAG

NORTH

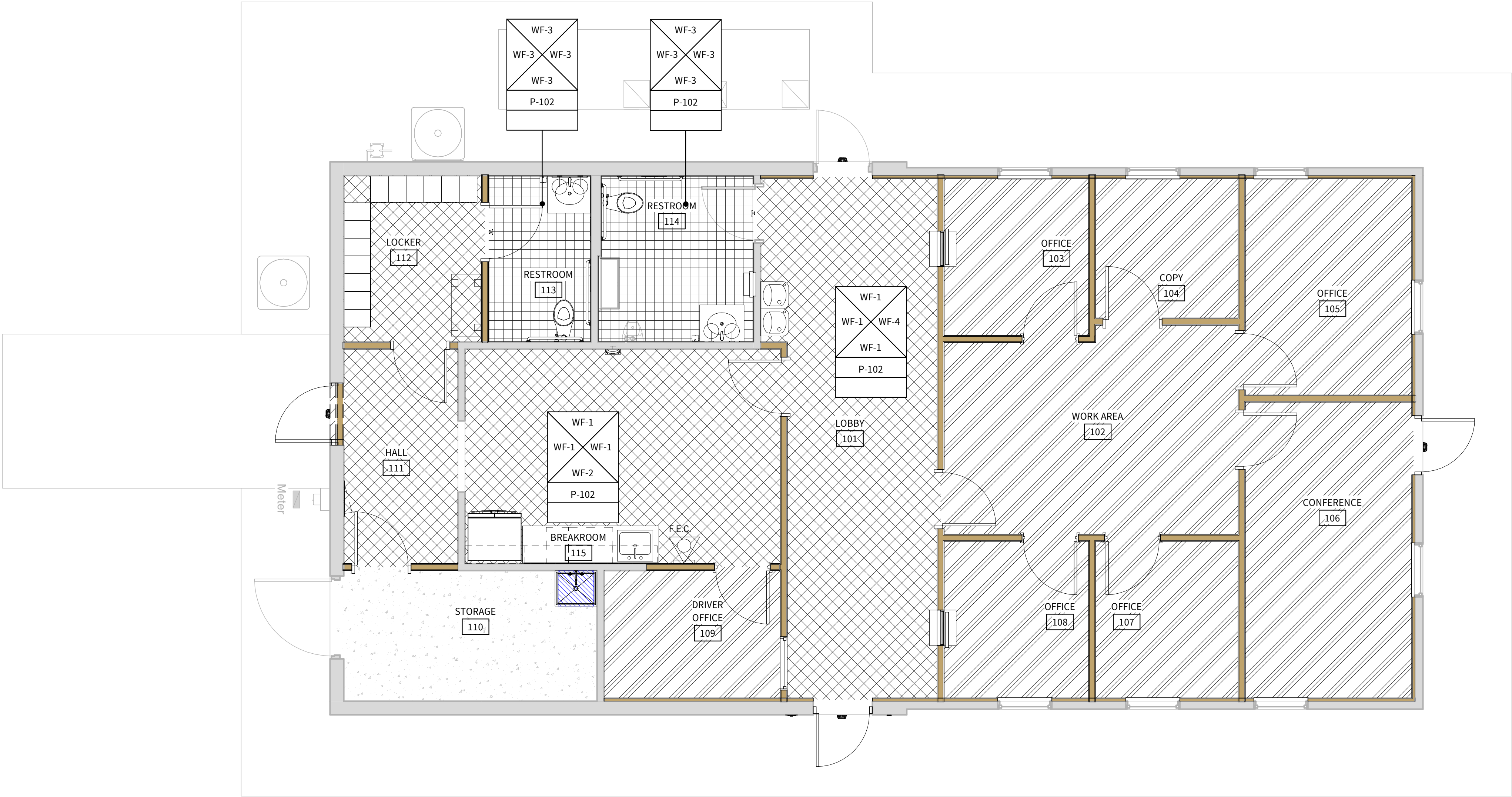
WEST

EAST

SOUTH

CEILING

REMARK: A



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SHEET NAME:

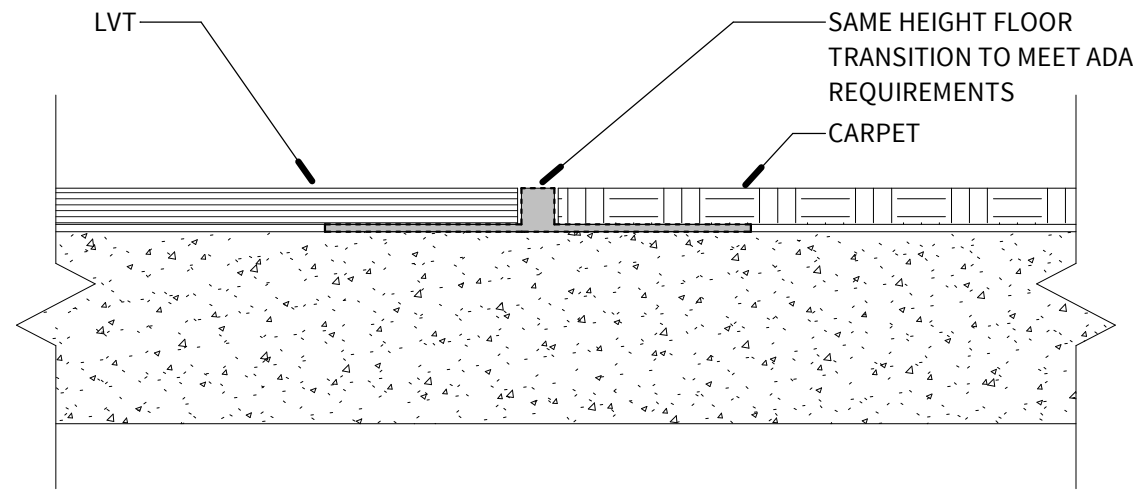
FINISH FLOOR PLAN

SHEET NUMBER:

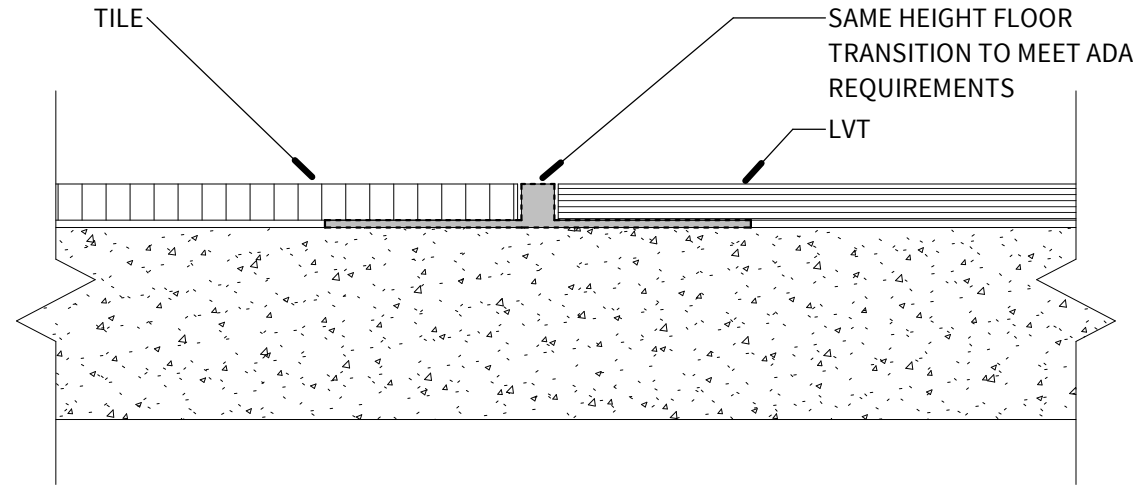
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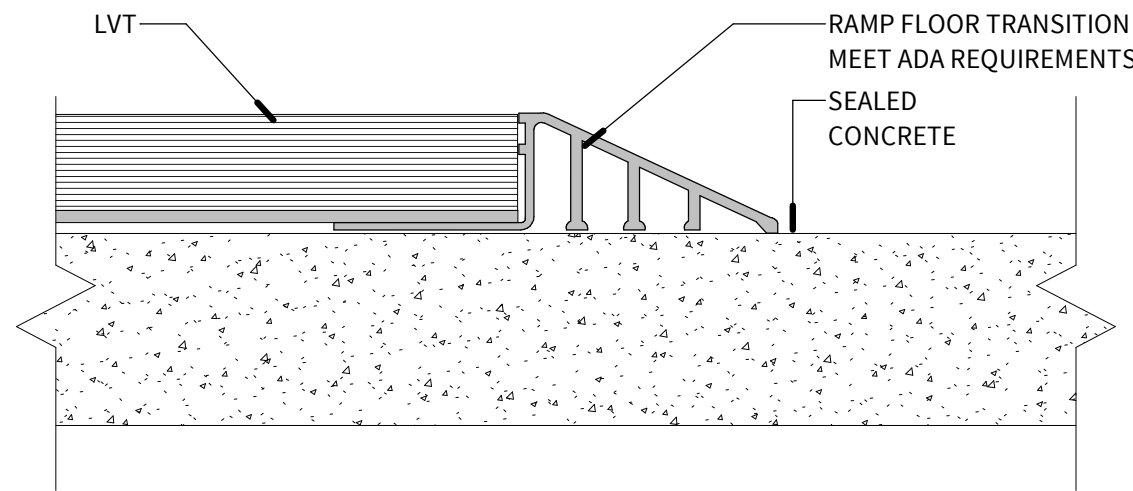
③ **FLOOR TRANSITION DETAIL**
SCALE: 12" = 1'-0"



② **FLOOR TRANSITION DETAIL**
SCALE: 12" = 1'-0"



① **FLOOR TRANSITION DETAIL**
SCALE: 12" = 1'-0"



FINISH MATERIALS

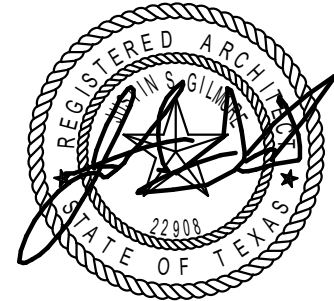
MARK	VENDOR	COLLECTION	COLOR/FINISH	SIZE	GROUT	REMARKS
CAP						
CP-101	SCHLUTER SYSTEMS	JOLLY	SATIN/MAT	A100AE		
CARPET TILE						
CPT-101	PATCRAFT	MIXED MATERIALS CONVERGE	CLOVE (00180)	24" x 24"		QUARTER TURN
CONCRETE (SEALED)						
CS-101	SHERWIN WILLIAMS					STRIP AND SEAL WAREHOUSE
DOOR FINISH						
DF-101	TIMELY	STANDARD FINISHES	BROWNSTONE (SC101)			
DF-102	KAWNEER	PERMANODIC ANODIZED FINISHES	DARK BRONZE NO. 40			
LUXURY VINYL TILE						
LVT-101	PATCRAFT	ADESA (I424V)	TREELINE-V2 (00715)	7.2"x48.03"		STAGGERED INSTALLATION
PAINT						
P-101	SHERWIN WILLIAMS	COLOR	RESPOSE GRAY (SW7015)			
P-102	SHERWIN WILLIAMS	COLOR	CEILING BRIGHT WHITE (SW7007)			
P-103	SHERWIN WILLIAMS	COLOR	GAUNTLET GRAY (SW7019)			ACCENT WALL
PLASTIC LAMINATE						
PL-101	WILSONART	PREMIUM SOFTGRAIN LAMINATE	SKYLINE WALNUT (7964K-12)	-		-
PORCELAIN TILE						
T-101	FLORIDA TILE	NY2LA	RIVERSIDE STEEL	12"x 24"	CBP #542 GRAYSTONE	RUNNING BOND
T-102	FLORIDA TILE	NY2LA	RIVERSIDE STEEL	12"x 24"	CBP #542 GRAYSTONE	RUNNING BOND
T-103	FLORIDA TILE	NY2LA	RIVERSIDE STEEL	M122	CBP #542 GRAYSTONE	MOSAIC TILE
RUBBER WALL BASE						
RB-101	FLEXCO	FLEXTONES	038 OUTER BANKS	4"		-
SOLID SURFACE						
SS-101	STARON	PEBBLE	PEBBLE BOULDER (PB852)	-		-

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	FLOOR TRANSITION	CEILING FINISH	WALL FINISH				NOTES
					NORTH	SOUTH	EAST	WEST	
101	LOBBY	LVT-101	2/Q301 3/Q301	P-102	WF-1	WF-1	WF-4	WF-1	
102	WORK AREA	CPT-101	3/Q301	P-102	WF-1	WF-1	WF-1	WF-1	
103	OFFICE	CPT-101	--	P-102	WF-1	WF-1	WF-1	WF-1	
104	COPY	CPT-101	--	P-102	WF-1	WF-1	WF-1	WF-1	
105	OFFICE	CPT-101	--	P-102	WF-1	WF-1	WF-1	WF-1	
106	CONFERENCE	CPT-101	--	P-102	WF-1	WF-1	WF-1	WF-1	
107	OFFICE	CPT-101	--	P-102	WF-1	WF-1	WF-1	WF-1	
108	OFFICE	CPT-101	--	P-102	WF-1	WF-1	WF-1	WF-1	
109	DRIVER OFFICE	CPT-101	3/Q301	P-102	WF-1	WF-1	WF-1	WF-1	
110	STORAGE	CS-101	1/Q301	P-102	WF-1	WF-1	WF-1	WF-1	
111	HALL	LVT-101	1/Q301	P-102	WF-1	WF-1	WF-1	WF-1	
112	LOCKER	LVT-101	2/Q301	P-102	WF-1	WF-1	WF-1	WF-1	
113	RESTROOM	T-101	2/Q301	P-102	WF-3	WF-3	WF-3	WF-3	
114	RESTROOM	T-101	2/Q301	P-102	WF-3	WF-3	WF-3	WF-3	
115	BREAKROOM	LVT-101	3/Q301	P-102	WF-1	WF-2	WF-1	WF-1	



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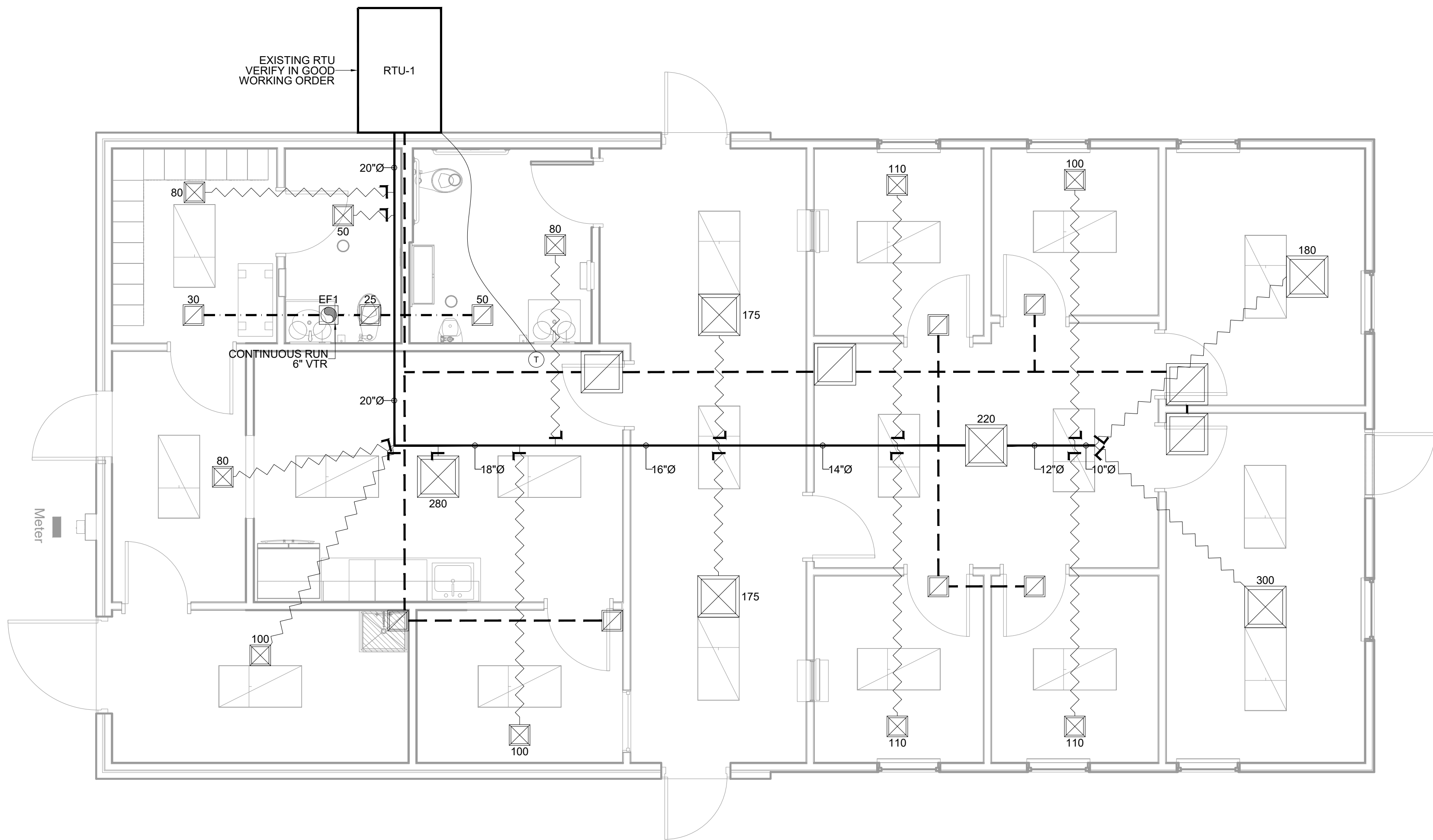
SHEET NAME:

FINISH SCHEDULE

SHEET NUMBER:

Q301

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ROOF TOP UNITS										
UNIT NO.	NOMINAL COOLING	MANUFACTURER	MODEL #	HEAT TYPE	ORIENTATION	FLOW (CFM)	IEER/ EER	ELECTRICAL DATA		
								VOLTAGE	MCA	MOCP
RTU-1	6 TONS	TRANE	YSC072F3ELA1	GAS 80 KBTU	HORIZONTAL	2400	UNK	208/3/60	36.5	50

CONTRACTOR TO VERIFY EXISTING UNIT IN GOOD WORKING ORDER.

-INTENT-
THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A STANDARD HVAC INSTALLATION FOR THE FACILITY WHICH IS FREE FROM HAZARD, EFFICIENT, SERVICEABLE, CAPABLE OF MAINTAINING SPECIFIED MAXIMUM RELATIVE HUMIDITY AND TEMPERATURE AS SPECIFIED AND EASY TO MAINTAIN.
THE EQUIPMENT, SYSTEMS, AND CONTROLS SHALL BE DESIGNED AND INSTALLED IN SUCH A MANNER THAT WILL ENCOURAGE THE CONSERVATION OF ENERGY WITHOUT UNNECESSARY HARDSHIP OR INCONVENIENCE TO TENANT.
ALL WORK, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY TENANT. ANY APPEARING WITHIN THE ONE YEAR GUARANTEE SHALL BE REMOVED AND REPLACED AT NO EXPENSE AND TO THE COMPLETE SATISFACTION OF THE TENANT.
-CODES, RULES AND REGULATIONS-
THE INSTALLATION SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION AND THE RULES AND REGULATIONS OF THE SERVING UTILITY, AND ALSO THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, WHERE THE CONTRACT REQUIREMENTS ARE IN EXCESS OF APPLICABLE CODES, RULES AND REGULATIONS, THE CONTRACT PROVISIONS SHALL GOVERN.
ARRANGE AND PAY FOR ALL INSPECTION WORK OF THIS SECTION REQUIRED BY A LOCAL BUILDING INSPECTOR.
OBTAIN AND PAY FOR ALL PERMITS AND LICENSES, AND GIVE ALL NOTICES, PAY ALL FEES, COMPLY WITH ALL EXISTING LAWS, ORDINANCES, RULES AND REGULATIONS, BEARING ON THE CONDUCT OF THE WORK AS SPECIFIED AND DRAWN.
INSPECTION AUTHORITY CERTIFICATE OF APPROVAL SHALL BE FURNISHED TO THE TENANT

BEFORE FINAL ACCEPTANCE WILL BE GIVEN.
IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS OR SPECIFICATIONS ARE AT VARIANCE WITH ANY LAWS, ORDINANCES, RULES AND REGULATIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT-ENGINEER IN WRITING.
IF THE CONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO THE ABOVE, AND WITHOUT NOTICE TO THE ARCHITECT-ENGINEER, HE SHALL BEAR ALL EXPENSE REQUIRED TO MAKE THE WORK TO CONFORM IN AN ACCEPTABLE MANNER.
-NEMA-
ELECTRICAL COMPONENTS USED IN THIS APPLICATION SHALL BE RATED IN ACCORDANCE WITH NEMA STANDARDS.
-SCOPE OF WORK-
FURNISH A COMPLETE SYSTEM OF HEATING, AIR CONDITIONING AND ALL VENTILATING, THE DESIGN OF WHICH SHALL BE BASED UPON THE USE OF A CEILING SUPPLY AND IN-UNIT RETURN AIR SYSTEM.

WORK INCLUDED UNDER THIS SECTION, WITHOUT LIMITING THE GENERALITY THEREOF, CONSISTS OF FURNISHING AND INSTALLING ALL MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN IN GENERAL AS FOLLOWS:
1. ROOF TOP UNITS AND ASSOCIATED REFRIGERANT AND CONDENSATE PIPING.
2. SHEET METAL WORK, INCLUDING DUCTWORK, DIFFUSERS AND REGISTERS.
3. DUCT FURNACES GAS FIRED (OR AS OTHERWISE SPECIFIED).

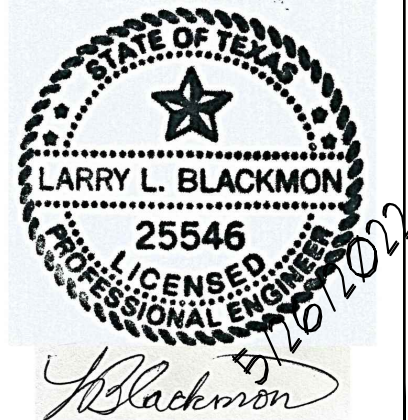
4. UNIT HEATERS, GAS FIRED (OR AS OTHERWISE SPECIFIED).
5. EXHAUST FANS, INTAKE LOUVERS.
6. INSULATION, PIPE AND DUCT.
7. ENVIRONMENTAL CONTROL PANELS, ALL SYSTEMS SENSORS AND RELATED THERMOSTATS.
8. TESTING AND BALANCING.
9. PROVIDE ALL TEMPORARY HOOK UP REQUIRED TO TEST OUT EQUIPMENT.
-PROTECTION-
THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFECT OPERATION OF THE ENTIRE SYSTEM AND MUST MAKE GOOD AT HIS OWN EXPENSE ANY PART OF THE WORK WHICH MAY BE STOPPED UP, OR BECOME INOPERATIVE DUE TO LEAVING THE WORK UNPROTECTED DURING CONSTRUCTION OF THE SYSTEM OR WHICH MAY BREAK OR FAIL IN ANY MANNER BY REASONS OF POOR WORKMANSHIP OR DEFECTIVE MATERIALS FOR A PERIOD ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.
-GUARANTEE-
ALL WORK, MATERIALS, AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR EXCEPT, COMPRESSORS SHALL BE FOR 5 YEARS FROM TENANTS OPENING DATE. ANY DEFECTIVE ITEMS APPEARING WITHIN THE GUARANTEE PERIOD SHALL BE REMOVED AND REPLACED AT NO EXPENSE AND TO THE COMPLETE SATISFACTION OF TENANT. OPERATIONS AND MAINTENANCE MANUALS WILL BE PROVIDED TO OWNER.
-GRILLES AND DIFFUSERS-
-CEILING MOUNTED AND T-GRID MOUNTED SUPPLY GRILLES/DIFFUSERS TO BE METALARE 5800 SERIES, KREUGER 1400, OR EQUIVALENT UNLESS OTHERWISE SCHEDULED ON PLANS.
-DUCT MOUNTED SUPPLY GRILLES TO BE SINGLE

DEFLECTION WITH CURVED FLANGE KREUGER 5DMGR SERIES, METALARE 4002PCF OR EQUIVALENT UNLESS OTHERWISE SCHEDULED ON PLANS.
-SUPPLY GRILLES TO HAVE MANUAL DAMPERS.
-RETURN GRILLES TO BE KREUGER S80 SERIES, METALARE RH SERIES, OR EQUIVALENT UNLESS OTHERWISE SCHEDULED ON PLANS.
-THERMOSTATS-
DIGITAL PROGRAMMABLE THERMOSTATS MOUNTED @ 48" A.F.F. PER A.D.A. REQUIREMENTS.
-DUCTING-
METAL ROUND DUCT SIZED PER PLAN.
FLEX DUCT APPROVED IF ALLOWED BY THE CITY WITH JURISDICTION. FLEXIBLE DUCTWORK MIN. R-8. ALL DUCT SEAMS TO BE SEALED WITH UL181A OR 181B TAPES AND MASTICS. MECHANICAL FASTENERS AND SEALANTS MUST BE USED TO CONNECT DUCTS TO AIR DISTRIBUTION EQUIPMENT.
FIRST 10' FROM PLENUM TO BE LINED WITH 1" INSULATION.
BALANCING DEVICES PER IMC 603.15.
ALL DUCT WORK PENETRATING FIRE WALLS MUST HAVE FIRE DAMPERS. FIRE DAMPERS TO BE INSTALLED ACCORDING TO LOCAL, STATE, AND NATIONAL FIRE CODES.
ALL EXPOSED DUCTWORK TO BE INSULATED TO THE END WITH 2" THICK LINER.
NO INSULATION REQUIREMENT FOR DUCTS LOCATED IN CONDITIONED SPACE.
DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10'. DO NOT PINCH FLEX DUCT WITH THE WRAPS.
-RTUS-
TO BE SCREENED PER SECTION 5.3.2.B.2.a OF THE

UNIFIED DEVELOPMENT CODE
-MECHANICAL UNITS-
UNITS 2000 CFM OR GREATER MUST HAVE SMOKE DETECTORS ON THE RETURN AIR SIDE.
AN INTEGRATED AIR ECONOMIZER IS REQUIRED FOR ALL COOLING SYSTEMS WITH COOLING CAPACITY EXCEEDING 54,000 BTHU.
PROVIDE HAIL GUARDS FOR ALL UNITS.
PROVIDE CONDENSATE OVERFLOW SWITCH ON ALL AIR HANDLERS. CONDENSATE LINES TO BE INSTALLED BY PLUMBING CONTRACTOR. LINE SIZES PER MANUFACTURER. LINES TO TERMINATE AT NEAREST DRAIN.
ALL UNITS TO HAVE FRESH AIR DUCTED TO RETURN AIR SIDE.
-ECONOMIZERS-
AN INTEGRATED AIR ECONOMIZER IS REQUIRED FOR ALL COOLING SYSTEMS WITH COOLING CAPACITY EXCEEDING 54,000 BTHU.
AIR ECONOMIZERS SHALL BE CAPABLE OF SUPPLYING UP TO 100% OF DESIGN OUTSIDE AIR. ECONOMIZERS MUST BE SUPPLIED WITH HONEYWELL, OR EQUAL, ECONOMIZER CONTROL. PAD, HIGH LIMIT SHUT OFF TO BE SET @ 65 DEGREES FAHRENHEIT.
PROVIDE BAROMETRIC RELIEF DAMPER.
GRAVITY DAMPERS TO BE USED FOR RETURN, EXHAUST/ RELIEF, AND OUTDOOR AIR DAMPERS IN ECONOMIZERS.
AIR ECONOMIZERS TO BE EQUIPPED WITH FAULT DETECTION AND DIAGNOSTICS(FDD SYSTEM).
-LOUVERS/VENTS-
ALL EXTERIOR LOUVERS AND VENTS TO BE PAINTED TO MATCH EXTERIOR FINISHES.

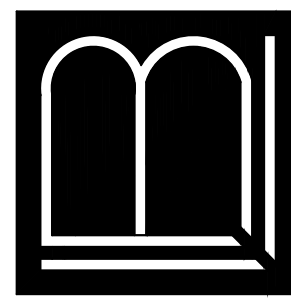
NOTE TO BIDDERS

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ARK-TEX COUNCIL OF GOVERNMENT
OFFICE RENOVATION
1610 US-271 BUSINESS
PARIS, TX 75460

LARRY L. BLACKMON INC.
ENGINEERING & BUILDING DESIGN
6716 AZLE AVENUE
FORT WORTH, TEXAS 76135
REGISTRATION #: F-002382
EMAIL: larry@lblackmonconsultingengineers.com PHONE: 817-238-9901



MECHANICAL
PLAN

SHEET:

M1

DATE:

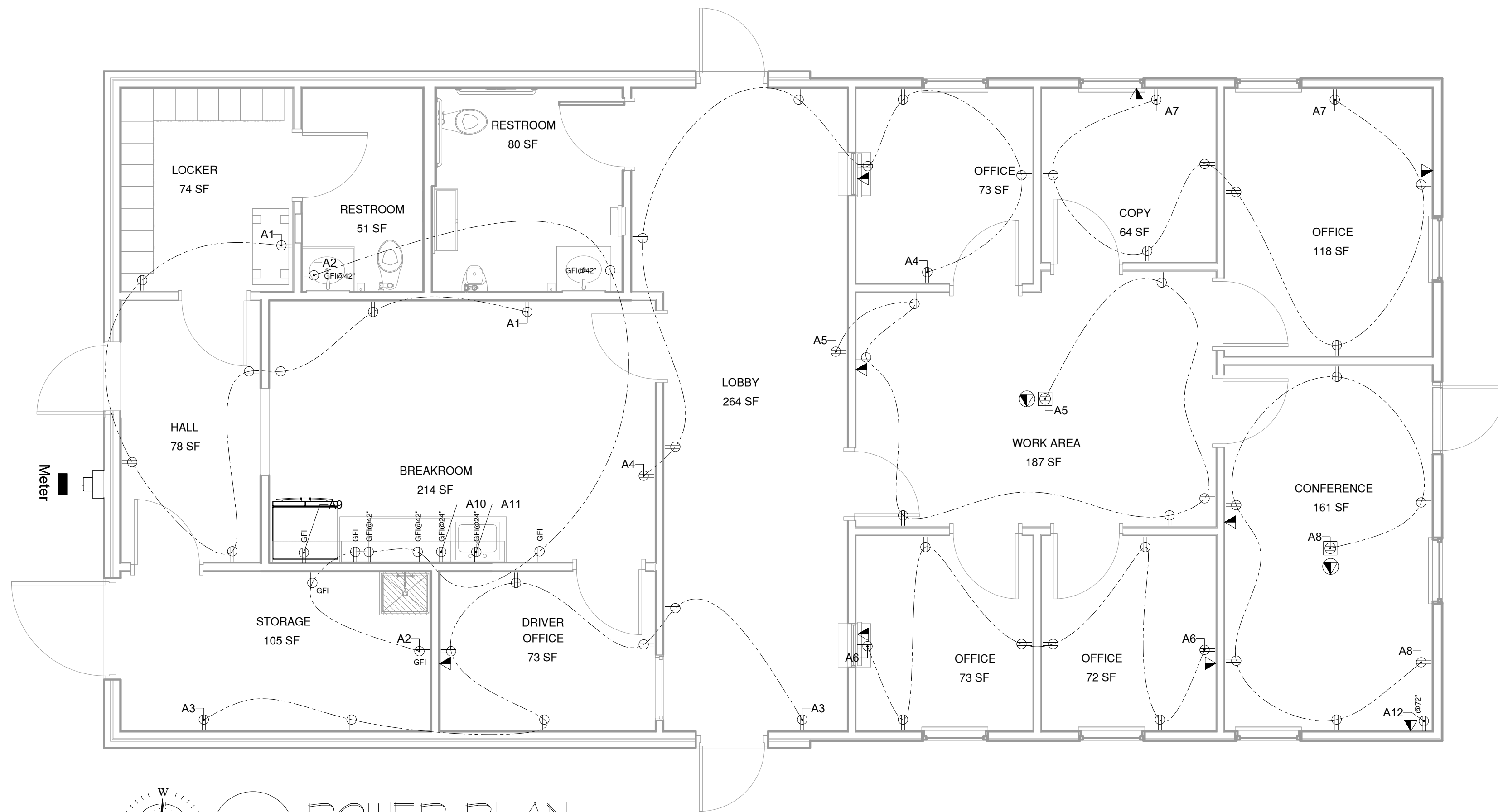
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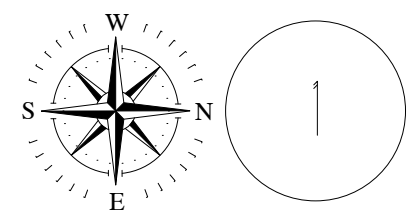
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DESIGN BY:

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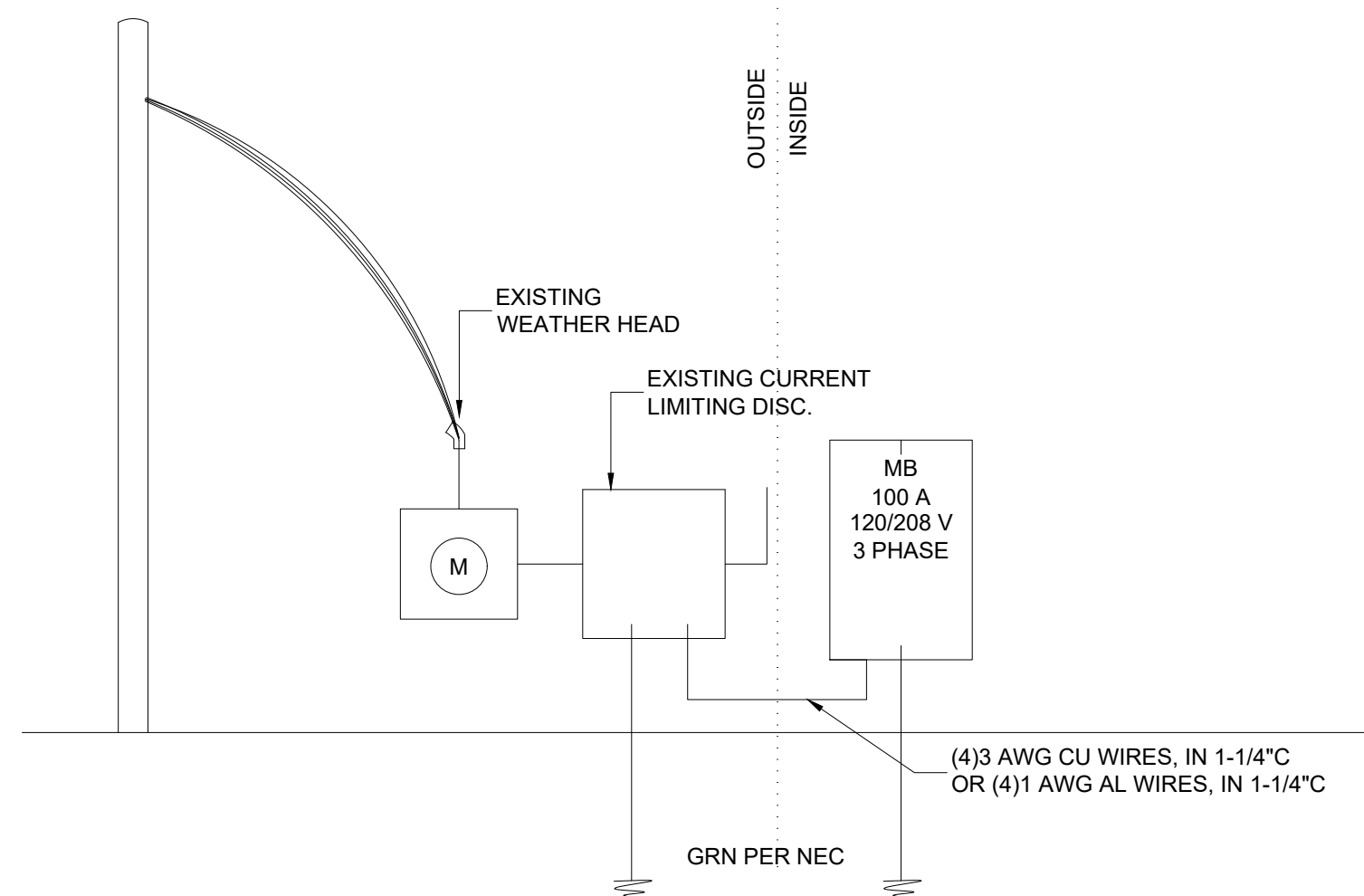


ELECTRICAL SYMBOL LEGEND	
	120V DUPLEX OUTLET
	GROUND FAULT INTERRUPTER 120V DUPLEX OUTLET
	WEATHERPROOF GROUND FAULT INTERRUPTER 120V DUPLEX OUTLET
	FLOOR MOUNTED 120V DUPLEX OUTLET WITH COVER
	DISCONNECT
	VERIFY EQUIPMENT REQUIREMENTS
	COMBINATION DATA/ TELEPHONE OUTLET
	FLOOR MOUNTED COMBINATION DATA/ TELEPHONE OUTLET WITH COVER
	JUNCTION BOX
	220V OUTLET



POWER PLAN

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



2

ELECTRICAL RISER

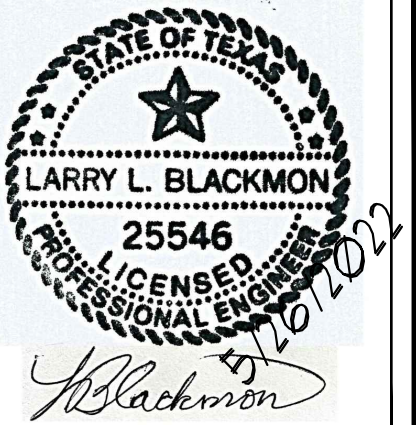
SCALE: NTS

PANEL - A			MB								
100 AMPS		120/208 VOLTS		3 PHASE		4 WIRE		10,000 AMP SHORT CIRCUIT RATING			
DESCRIPTION	POLES	BKR	V.A. LOAD	CIRCUIT		V.A. LOAD	BKR	POLES	DESCRIPTION		
OUTLETS	1	20	1440	1	A	2	1440	20	1	GFI OUTLETS	
OUTLETS	1	20	1440	3	B	4	1440	20	1	OUTLETS	
OUTLETS	1	20	1440	5	C	6	1440	20	1	OUTLETS	
OUTLETS	1	20	1440	7	A	8	1440	20	1	OUTLETS	
REFRIGERATOR	1	20	1000	9	B	10	1000	20	1	DISHWASHER	
GARBAGE DISPOSAL	1	20	1200	11	C	12	1000	20	1	TELEVISION	
LIGHTING	1	20	808.4	13	A	14	4380	50	3	EXISTING RTU	
				15	B	16	4380	50		EXISTING RTU	
				17	C	18	4380	50		EXISTING RTU	
				19	A	20					
				21	B	22					
				23	C	24					
				25	A	26					
				27	B	28					
				29	C	30					
				31	A	32					
				33	B	34					
				35	C	36					
				37	A	38					
				39	B	40					
				41	C	42					
DESCRIPTION				CONNECTED LOAD			DEMAND FACTOR	DEMAND LOAD			
				A	B	C		A	B	C	
				808	-0-	-0-	1.25	1011	-0-	-0-	
				5760	2880	2880	1.00	5760	2880	2880	
				-0-	2000	2000	1.00	-0-	2000	2200	
				4380	4380	4380	1.00	4380	4380	4380	
PANEL LOAD								11151	9260	9460	
TOTAL LOAD				29.871/360 = 83 AMPS							

PROVIDE NEW ELECTRICAL PANEL.

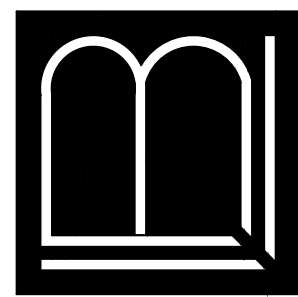
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ELECTRICAL
PLAN

SHEET:

E1

DATE:

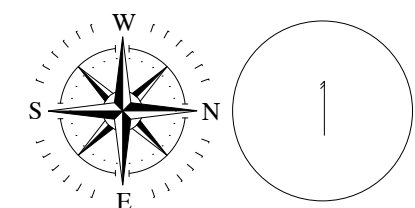
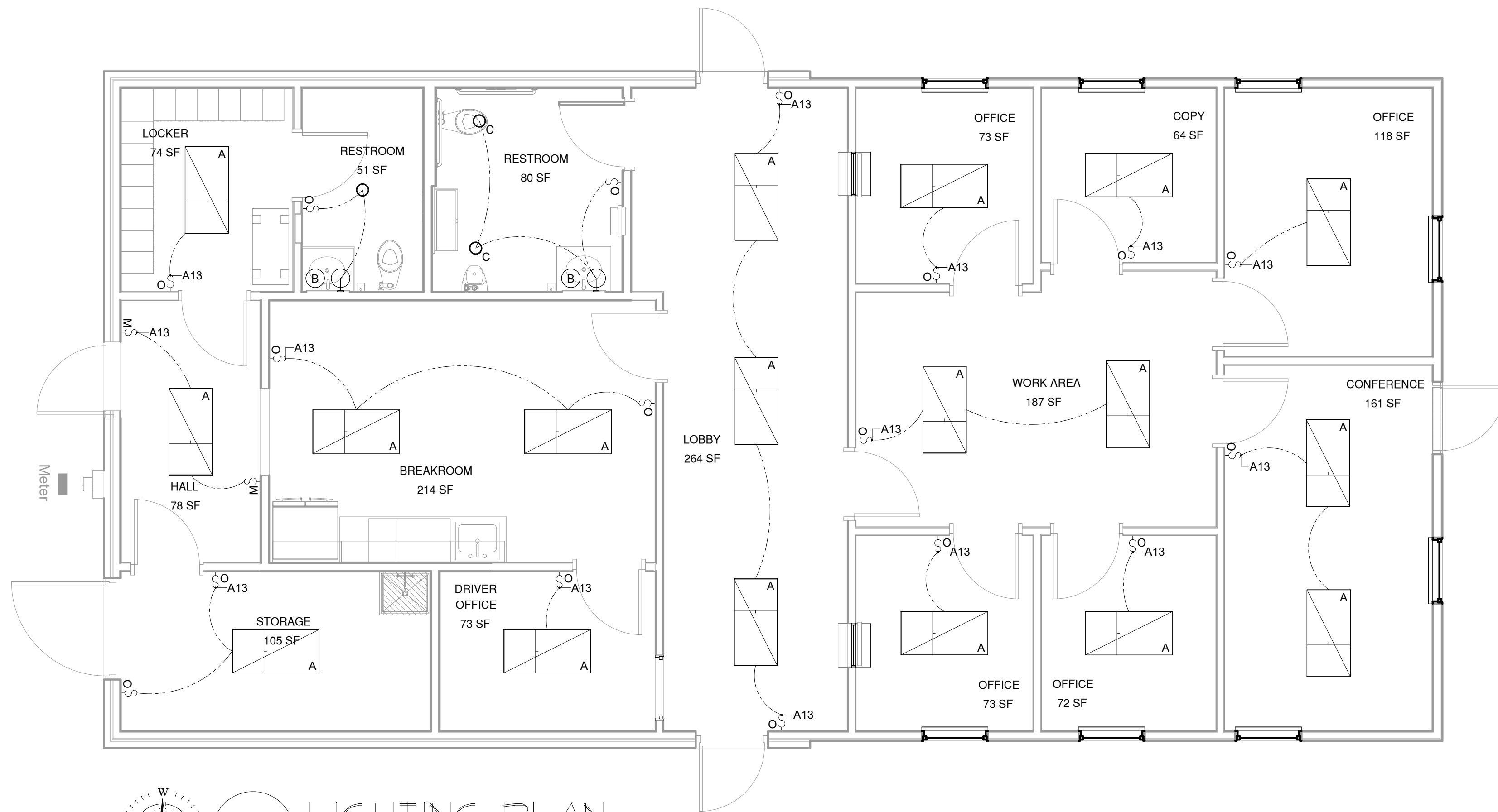
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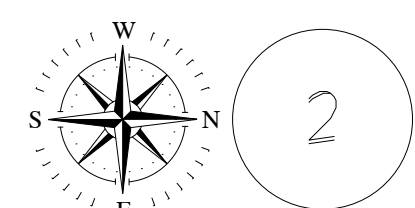
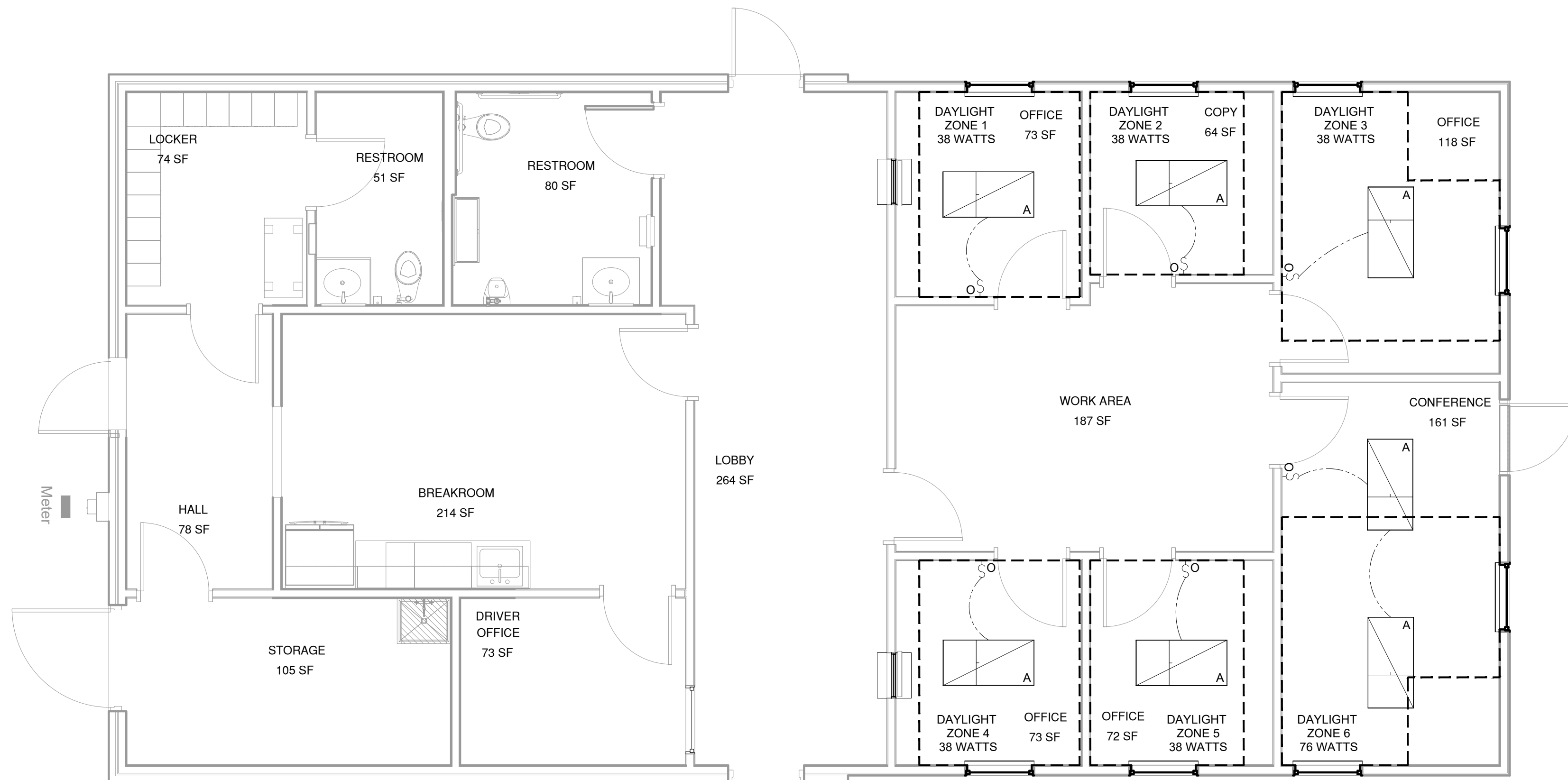
DESIGN BY:

LLB



1 LIGHTING PLAN

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



2 DAYLIGHTING PLAN

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

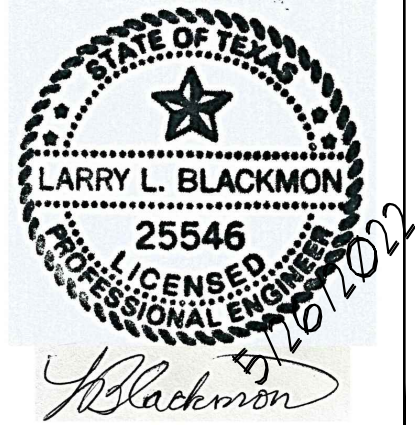
DAYLIGHT NOTES:

DAYLIGHT ZONES 1 - 6 ARE EXEMPT WITH LESS THAN 150W OF GENERAL LIGHTING

LIGHTING FIXTURE SCHEDULE		
	OCCUPANCY SENSING MULTI-LOCATION SWITCH, MANUAL ON/AUTO-OFF/30 MIN TIMEOUT	LUTRON MS-OPS SERIES
	MULTI-LOCATION, SINGLE POLE SWITCH	LUTRON MA-S8AM SERIES
	SINGLE POLE MECHANICAL SWITCH	LUTRON CA-1PS SERIES
	2'X4' LED PANEL 38 WATTS PER FIXTURE	LITHONIA 2BLT4
	BATHROOM WALL SCONCE ADA COMPLIANT 10 WATTS PER FIXTURE	SEA GULL LIGHTING DRISCOLL 4440402EN-848
	6 INCH RECESSED LED DOWNLIGHT 34.8 WATTS PER FIXTURE	LITHONIA LDN6
	LED EDGE-LIT EXIT SIGN W/ DIRECTIONAL CHEVRONS 3.5 WATTS PER FIXTURE	LITHONIA LRP
	WALL/CEILING MOUNTED EMERGENCY LIGHT W/BATTERY BACKUP, 3 WATTS PER FIXTURE	LITHONIA ELM4L
	ARCHITECTURAL EMERGENCY LIGHT W/BATTERY BACKUP, 3 WATTS PER FIXTURE	LITHONIA AFF

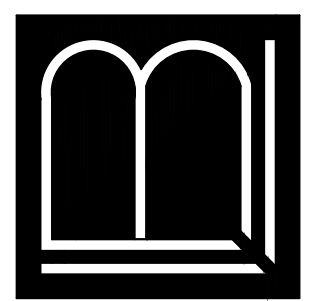
LIGHTING NOTES:
1. MOUNT ALL SWITCHES @ 48" A.F.F. UNLESS NOTED
2. ALL EXTERIOR BUILDING MOUNTED LIGHTING TO BE PROVIDED WITH CONTROLS THAT AUTOMATICALLY SHUT OFF LIGHTING AS A FUNCTION OF DAWN/DUSK AND A SET OPENING AND CLOSING TIME.

NOTE TO BIDDERS
THE INTENT OF THE DRAWINGS HEREIN IS TO REPRESENT A COMPLETE WORKING SYSTEM. ALL BIDDERS SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL COMPONENTS NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.



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ELECTRICAL
PLAN

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E2

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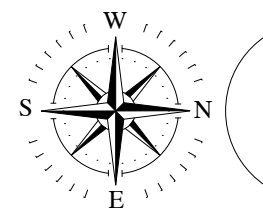
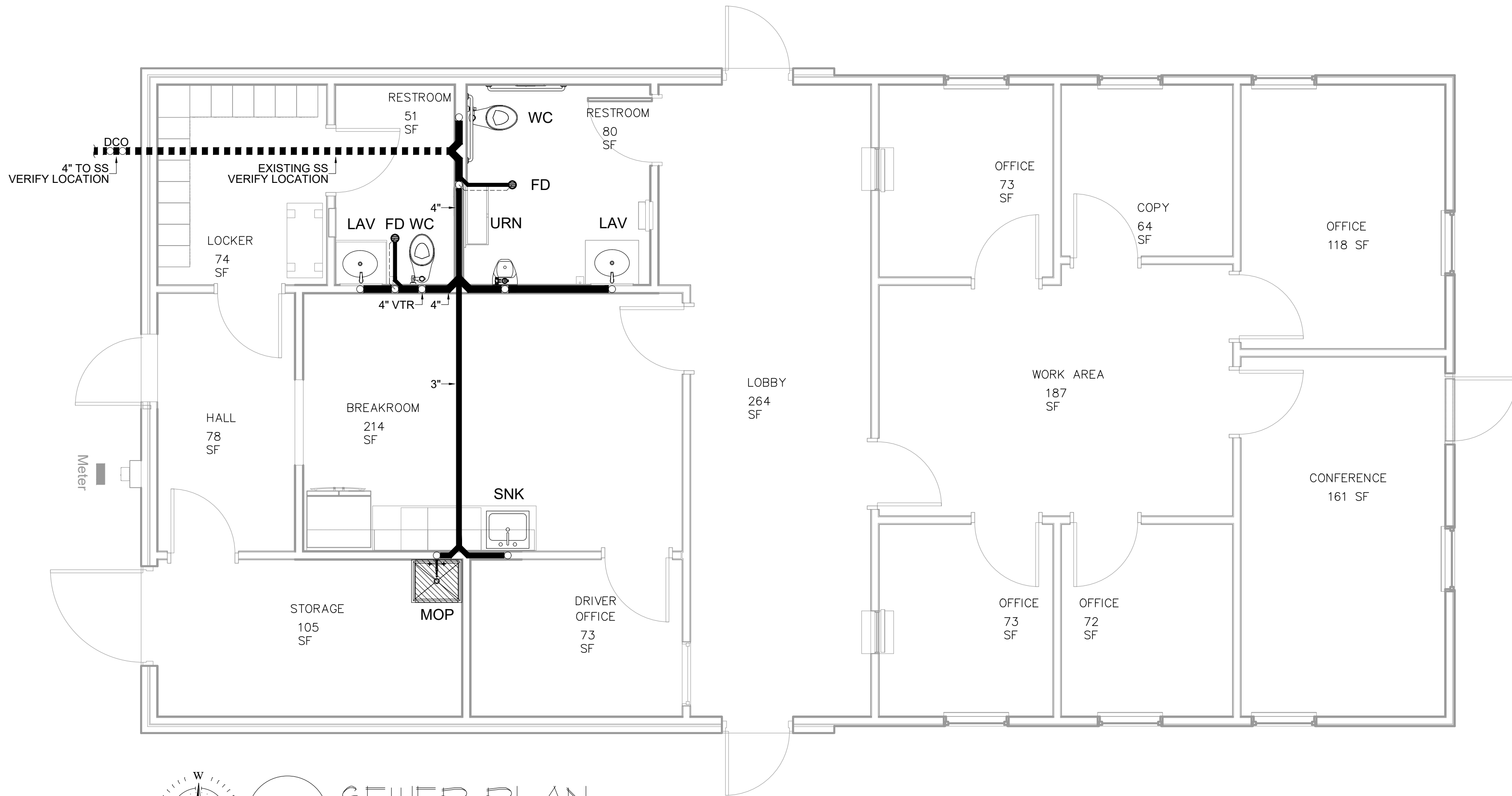
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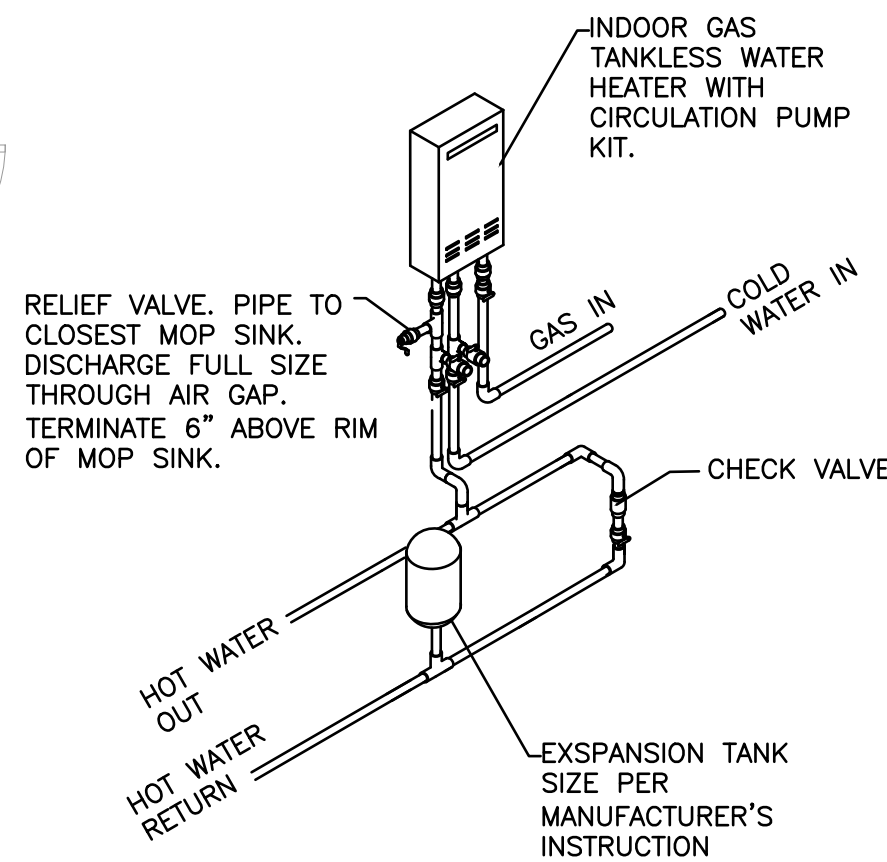
LLB



SEWER PLAN

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

PLUMBING SYMBOL LEGEND	
	COLD WATER
	HOT WATER
	SEWER LINE
	EXISTING SEWER LINE
	SHUTOFF VALVE
	GAS LINE



- CONTRACTOR SHALL VERIFY THE PIPING ARRANGEMENT FOR THE WATER HEATER WITH THE RESPECTIVE PLAN. THIS DETAIL SHOWS THE MIN. REQUIRED EQUIPMENT FOR THE INSTALLATION. INSTALLATION WILL VARY WITH EACH INSTALLATION. SEE LOCAL CODES CLEARANCES AND REQUIREMENTS.
- MANUFACTURERS REPRESENTATIVE SHALL BE PRESENT FOR STARTUP.
- CONTRACTOR SHALL VERIFY THAT ALL MASTER AND SLAVE CONTROLLERS ARE PRESENT AND OPERATIONAL BEFORE TURNED OVER TO OWNER.

PLUMBING FIXTURES SCHEDULE	
WH	RHEEM TANKLESS WATER HEATER W/ CIRCULATION PUMP, EXPANSION TANK, AND RELIEF VALVE. 180KBTU. RHEEM #RTGH-RH10DVLN
WC	AMERICAN STANDARD ELONGATED, FLOOR MOUNT, RIGHT HEIGHT TOILET, WHITE - 3043.001. WITH AMERICAN STANDARD AUTOMATIC FLUSH VALVE, CHROME, 1.28 GPF - 6065.121. ADA COMPLIANT.
LAV	AMERICAN STANDARD CADET OVAL SINK 0419.444EC WHITE WELKAY FAUCET LK804CF06L2. PROVIDE HANDICAP PROTECTION.
URN	WALL-MOUNTED PORCELAIN 1.0 GPF URINAL. ADA COMPLIANT. AMERICAN STANDARD MODEL: 6501.511.020
SNK	ADA COMPLIANT STAINLESS STEEL KITCHEN SINK. AMERICAN STANDARD: 225B.6252283C.075. WITH STAINLESS STEEL SINGLE CONTROL FAUCET. AMERICAN STANDARD: 7074000.075
MOP	ELKAY LK8940C COMMERCIAL FAUCET W/ LEVER HANDLE AND BUCKET SPOUT. WALL MOUNTED, ADA FIAT MODEL: MODESTO MOP SERVICE BASING
FD	ZURN Z-415 FLOOR DRAIN W/ TYPE "C" STRAINER
CO	CLEAN-OUT
DCO	DOUBLE CLEAN-OUT
CP	CIRCULATION PUMP

ALL FAUCETS SHALL BE TAS (ADA) COMPIANT

PLUMBING NOTES

PROVIDE ALL PLUMBING ITEMS INDICATED ON THE DRAWINGS, DESCRIBED HEREIN OR OTHERWISE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, INCLUDING:

- PLUMBING FIXTURES, FITTINGS AND INSTALLMENT.
- HOT AND COLD WATER SYSTEMS.
- DRAIN WASTE AND VENT PIPING SYSTEMS.
- INDIRECT WASTE PIPING, INCLUDING ALL VALVES, TRAPS, PIPING AND ACCESSORIES.
- FOR ALL KITCHEN EQUIPMENT, SIZE PER EQUIPMENT REQUIREMENTS.
- ROOF DRAINAGE SHOWN ON ARCHITECTURAL DRAWINGS.

COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND ORDINANCES, INCLUDING REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE (IPC), 2015 EDITION.

THESE DRAWINGS AND SPECIFICATIONS REFLECT A STANDARD DESIGN WHICH MUST BE VERIFIED OR MODIFIED FOR EACH APPLICATION. AS A MINIMUM, VERIFY ALL EQUIPMENT LOADS AND REQUIREMENTS, PIPE AND SERVICE SIZES, SITE CONDITIONS, LOCAL ORDINANCES AND CODES ETC.

THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED UNLESS THESE DIFFICULTIES COULD NOT HAVE BEEN FORESEEN, EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.

COORDINATE WITH ALL TRADES AND VERIFY ALL EQUIPMENT ROUGH-IN ITEMS AND LOCATIONS WITH THE EQUIPMENT SUPPLIER OR CONTRACTOR. ALL RE-WORK AND CORRECTIONS REQUIRED DUE TO LACK OF COORDINATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND DONE AT NO COST TO THE OWNER.

SUBMIT SIX COPIES OF SHOP DRAWINGS AND MATERIAL DATA SUBMITTALS TO THE ENGINEER FOR APPROVAL BEFORE INSTALLATION. NO SUBSTITUTIONS SHALL BE ALLOWED WITH PRIOR APPROVAL BY THE ENGINEER.

SANITARY AND STORM DRAINS:
A. WASTE AND VENTS SHALL BE STANDARD WEIGHT CAST IRON NO-HUB PER CISPI STANDARDS 301 AND 310, WITH STAINLESS STEEL ONE-PIECE NEOPRENE GASKETS.
B. EXTEND ALL PLUMBING VENTS ABOVE THE ROOF.
C. ALL FLOOR DRAINS AND HUB DRAINS TO HAVE TRAP PRIMERS.

UNDER SLAB PIPING:
A. SHALL BE CAST IRON BELL AND SPIGOT PIPING WITH NEOPRENE GASKETS, OR A.B.I. "BEST" COUPLING, WHERE PERMITTED BY LOCAL AUTHORITY, APPROVED PVC OR ABS PLASTIC PIPE AND FITTINGS, PER ASTM D2661-89 OR D2665-89, MAY BE USED.
B. IF PEX TUBING IS USED, UPGRADE LINE SIZE TO NEXT

STANDARD SIZE ABOVE SIZES SHOWN ON PLAN.
C. UNLESS SHOWN OTHERWISE, PROVIDE UNIFORM PITCH OF AT LEAST 1/4 INCH PER FOOT FOR ALL HORIZONTAL DRAINAGE PIPING WITHIN THE BUILDING.
D. CLEAN OUTS LOCATED IN PAVEMENT OR SIDEWALKS SHALL HAVE BRASS OR CAST IRON COVERS THAT EXTEND TO GRADE.

HOT AND COLD WATER AND INDIRECT WASTE PIPING:
A. HARD-DRAWN COPPER TUBE, TYPE "L", PER ASTM B88-88A, MADE UP WITH WROUGHT OR FORGED COPPER SWEAT FITTINGS. UNDER SLABS, TYPE "K" SOFT TEMPER COPPER TUBE WITHOUT JOINTS. IF PEX TUBING IS USED, UPGRADE LINE SIZE TO NEXT STANDARD LINE SIZE ABOVE SIZES SHOWN ON THE PLAN.
B. PROVIDE SHUT-OFF GATE VALVES AND UNIONS AT ALL WATER CONNECTIONS TO EQUIPMENT AND APPLIANCES.
C. PROVIDE STOPS AND CHROME PLATED BRASS SUPPLIES AT ALL FIXTURES.
D. PROTECT THE POTABLE WATER SUPPLY AGAINST BACKFLOW AND SIPHONAGE FROM EQUIPMENT, FIXTURES, ETC., USING APPROVED BACKFLOW AND ANTI-SIPHON DEVICES.
E. ALL PIPE HANGERS, CLAMPS AND CHANNELS SHALL BE ADEQUATELY SIZED TO CARRY PIPE LOADS AND PREVENT SAGGING.
F. ALL FIXTURES USED FOR STORAGE, PREPARATION, AND HANDLING OF FOOD TO DISCHARGE THROUGH AN INDIRECT WASTE PIPE BY MEANS OF AN AIR GAP, EACH WELL OF A MULTIPLE COMPARTMENT SINK TO DISCHARGE INDEPENDENTLY TO A WATER RECEPTOR.
G. ALL LAVATORIES AND SINKS TO HAVE TEMPERING VALVES, FIXTURE TAILPIECES AND TRAPS FOR LAVATORIES AND SINKS SHALL BE BRASS TUBING, SEMI-CAST, OR CAST IRON; ALL BRASS TUBING SHALL BE 17 GAGE, CHROME PLATED.

SOLDER:
LEAD-FREE, CANFIELD "100% WATERSAFE".

PIPE SIZE VALVES, AS SHOWN BELOW:
A. GATE: MILWAUKEE 148 OR 149
B. CHECK: MILWAUKEE 509T OR 1509T
C. PRESSURE AND TEMPERATURE RELIEF VALVES: WATTS TYPE 100XL

ISOLATE ALL DISSIMILAR METALS WITH "EPCO" DIELECTRIC UNIONS, EXCEPT FOR BRASS OR BRONZE VALVES WITH STEEL PIPE.

ALL OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE WORK OF THIS SECTION, SHALL BE NEW, FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND AS SELECTED BY THE CONTRACTOR SUBJECT TO ACCEPTANCE BY THE ENGINEER.

LAY OUT THE PLUMBING SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATIONS FOR ALL COMPONENTS OF THE SYSTEM AND USING ONLY THE MINIMUM NUMBER OF BENDS TO PRODUCE A SATISFACTORILY FUNCTIONING SYSTEM. FOLLOW THE GENERAL LAYOUT SHOWN ON THE

DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK MAY INTERFERE, UNLESS SHOWN OTHERWISE, LAY OUT ALL PIPES TO FALL WITHIN PARTITION, WALL, FLOOR, OR ROOF CAVITIES, AND TO NOT REQUIRE FURRING OTHER THAN AS SHOWN ON THE DRAWINGS. DO NOT CUT INTO OR REDUCE THE SIZE OF ANY LOAD-CARRYING MEMBER WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. INSTALL ALL PIPES TO CLEAR ALL BEAMS AND OBSTRUCTIONS.

PROVIDE PRESSURE REDUCING VALVE IF WATER SERVICE PRESSURE EXCEEDS 80 PSI. PROVIDE PRESSURE BOOSTING SYSTEM IF PRESSURE IS BELOW 35 PSI. TEST WATER LINES AT 100 PSIG. RETAIN FOR 24 HOURS; REPAIR ALL LEAKS AND RE-TEST.
TEST SANITARY, PROCESS, AND STORM DRAINAGE PIPING BY PLUGGING ALL OPENINGS AND FILLING WITH WATER TO A HEIGHT EQUAL TO A 10 FOOT HEAD. ALLOW TO STAND ONE HOUR OR LONGER AS REQUIRED. REPAIR LEAKING JOINTS AND THEN RE-TEST.

THOROUGHLY CLEAN ALL PIPING AND EQUIPMENT, REMOVING ALL DIRT, RUST, OIL AND PLASTER.

NO WORK SHALL BE COVERED UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE LOCAL AUTHORITY AND THE ENGINEER.

THE ENTIRE SYSTEM SHALL BE WARRANTED FOR A PERIOD OF ONE (1) YEAR BEGINNING WITH THE OWNER'S ACCEPTANCE OF THE WORK. ALL LABOR AND MATERIALS NECESSARY TO REPAIR OR REPLACE THE SYSTEM, OR PORTIONS THEREOF, DURING THAT TIME SHALL BE WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM THE REPAIR OR REPLACEMENT.

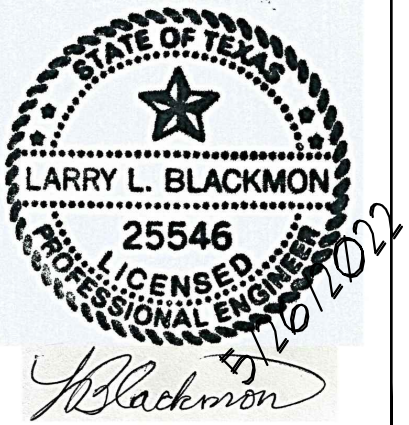
PLUMBING CONTRACTOR TO PROVIDE AND HOOK UP ALL CONDENSATION LINES, CONDENSATE LINES TO DISCHARGE INTO THE SANITARY SEWER.

PLUMBING CONTRACTOR TO PROVIDE AND HOOK UP ALL GAS LINES. TEST GAS PIPING AT A PRESSURE OF 10 PSIG OR A MAXIMUM OF 6" MERCURY. MEASURE GAS TEST PRESSURE WITH A CERTIFIED CALIBRATED GAUGE (DIAPHRAGM) OR MERCURY GAUGE (MANOMETER). SPRING GAUGES SHALL NOT BE USED. ALL GAS PIPING EXPOSED TO THE ELEMENTS SHALL BE PAINTED WITH A RUST INHIBITING PAINT TO PROTECT IT FROM RUST AND CORROSION.

WATER HEATERS MUST MEET EFFICIENCY REQUIREMENTS. WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON-CIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT. PROVIDE INSULATION PER MANUFACTURER'S INSTRUCTION TO A HEAT TRAP OR FOR THE FIRST 8 FEET OF HOT WATER PIPING, WHICHEVER IS LESS. INSULATION SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH I.B.C.

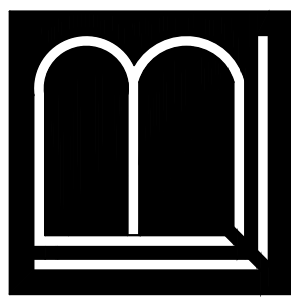
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