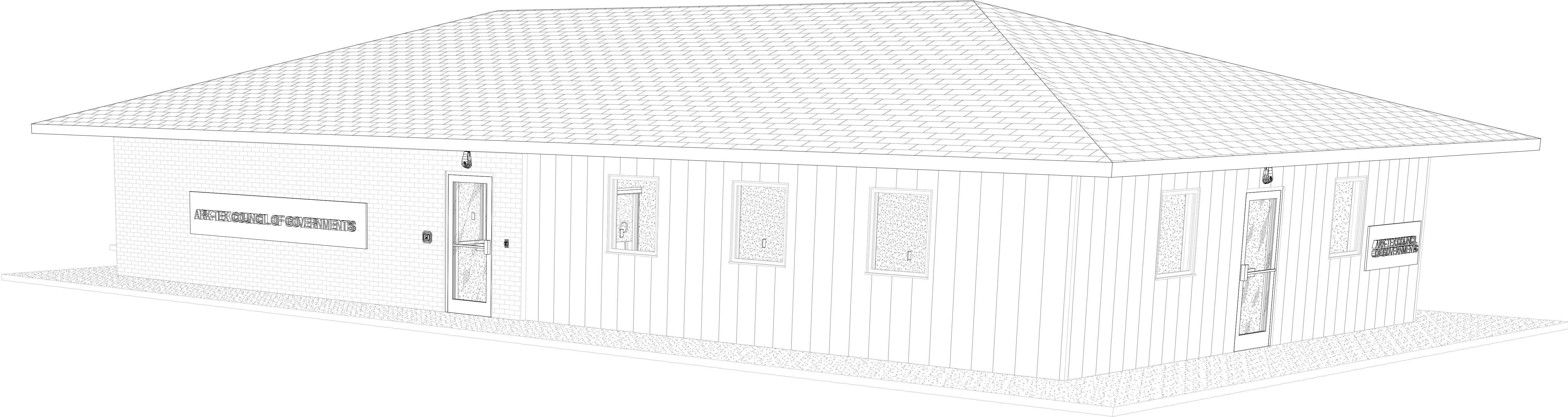


# TRANSPORTATION OFFICE RENOVATION

1610 CLARKSVILLE ST. PARIS, TEXAS 75460





LARRY L. BLACKMON, INC.  
ENGINEERING & BUILDING DESIGN  
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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:  
COVER SHEET

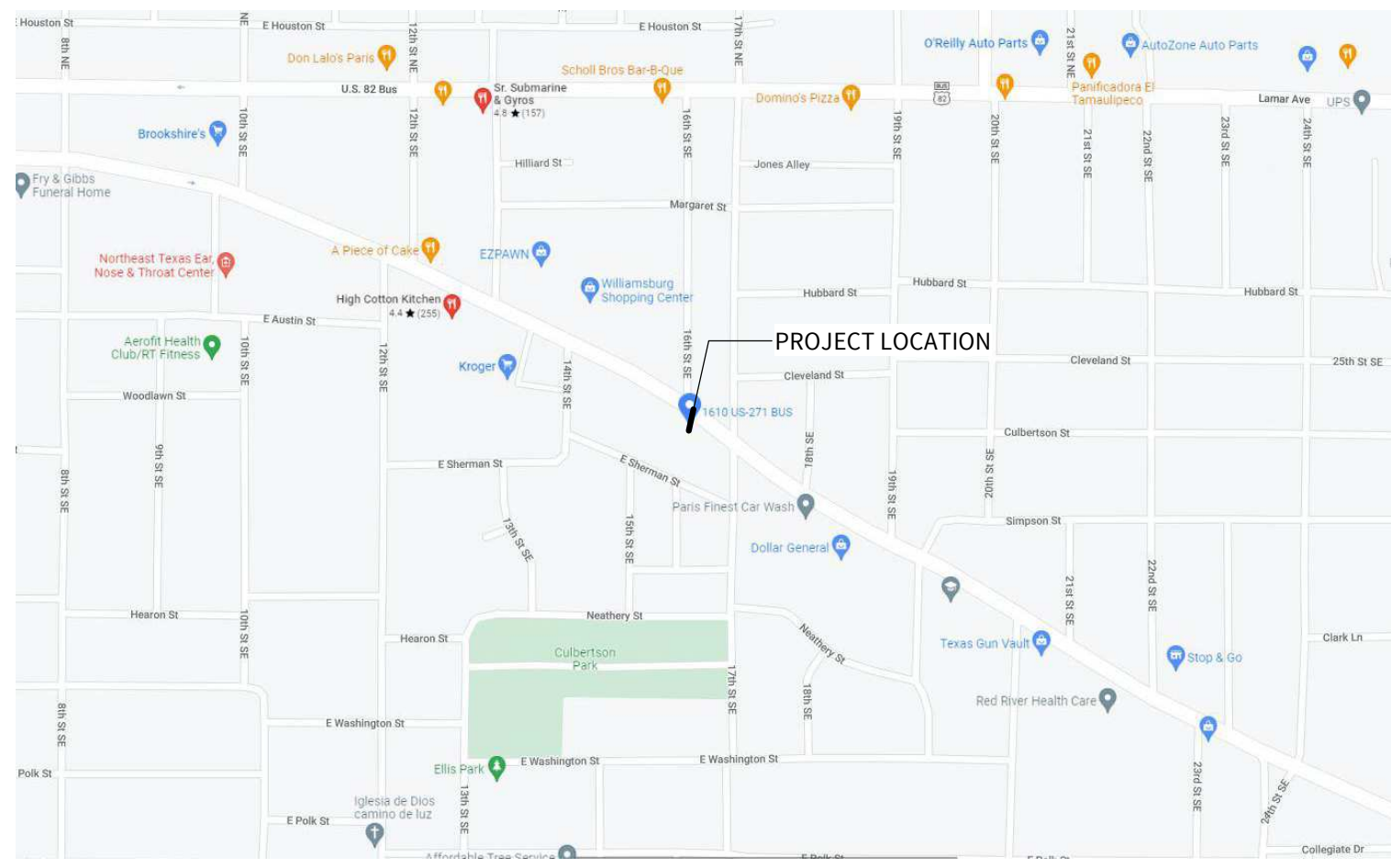
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## PROJECT INFORMATION

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

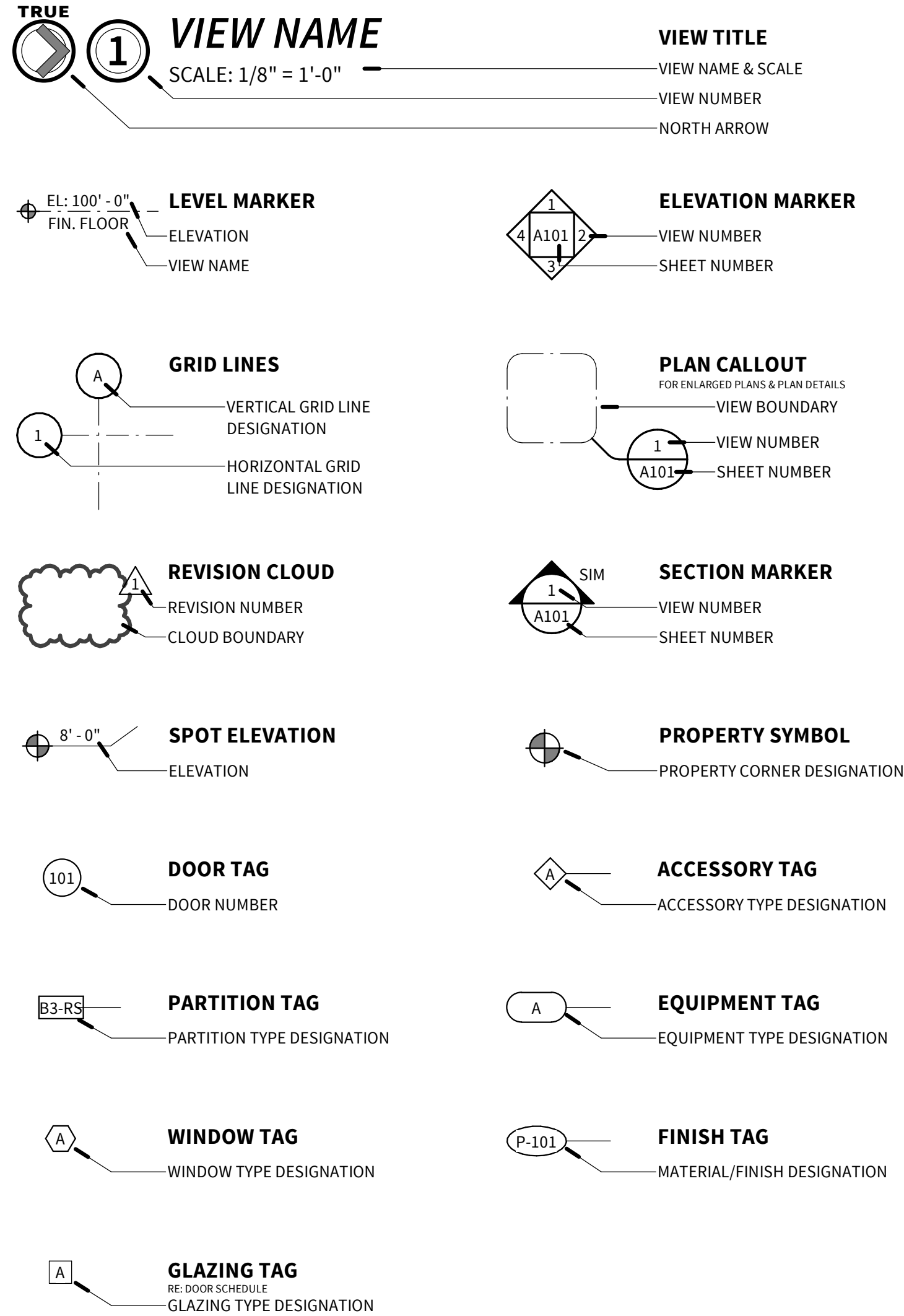
CONSTRUCTION TYPE:	TYPE VB		
OCCUPANCY CLASSIFICATION	ACTUAL	ALLOWABLE	REMARKS
Area	1,897 SF	9,000 SF	
GRAND TOTAL	1,897 SF	9,000 SF	

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

## ABBREVIATIONS

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. 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 EA. 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
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.J.C. NO. 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.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. STRFR. STRUCT.('L) SURF. SUSP. SWR. SYMB. SYS.	SOUTH SECTION SINGLE SHOWER SIMILAR SAW JOINT SPECIFY SPECIFICATIONS SQUARE SQUARE FOOT STAINLESS STEEL STANDARD STEEL STORE FRONT STRUCTURE(AL) 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. WDW. W.I. 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

## SYMBOL LEGEND



## REVISION DESCRIPTIONS

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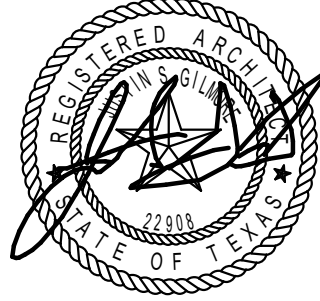
SHEET	REV	DATE	SHEET	SHEET	SHEET	REV	DATE	SHEET
01 GENERAL			03 ARCHITECTURAL			04 MECHANICAL		
G001			A101			M1		
G002			A201			MECHANICAL PLAN		
G003			A202			05 ELECTRICAL		
G004			A203			E1		
G005			A301			E2		
G201			A302			ELECTRICAL RISER		
			A303			LIGHTING PLAN		
			A401			06 PLUMBING		
02 DEMOLITION			A402			P1		
D201			A501			PLUMBING PLAN		
D202			A601					
D203			A602					
			Q201					
			Q301					

## 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 BOARDS, 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



**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:

## GENERAL PROJECT INFORMATION

SHEET NUMBER:

# G002

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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.

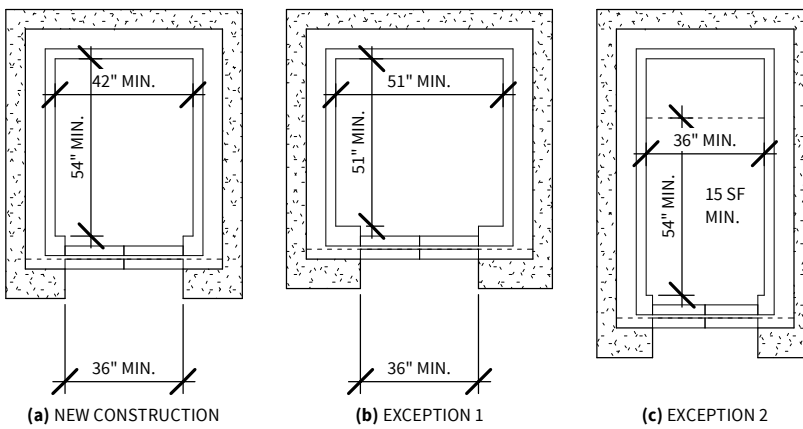


FIGURE 408.4.1 LIMITED-USE/LIMITED-APPLICATION (LULA) ELEVATOR CAR DIMENSIONS

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

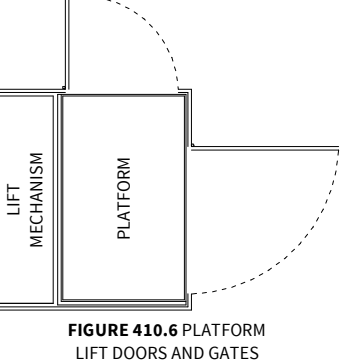
410 PLATFORM LIFTS

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

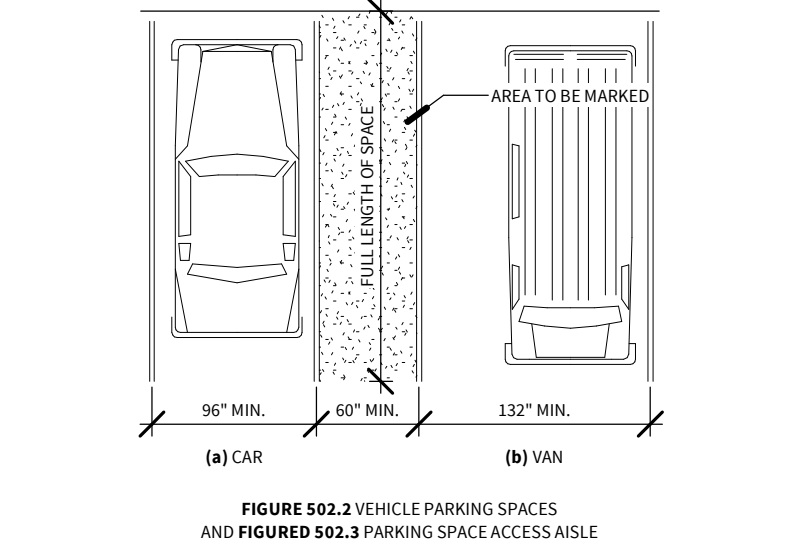


FIGURE 502.2 VEHICLE PARKING SPACES AND ACCESS AISLE

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.

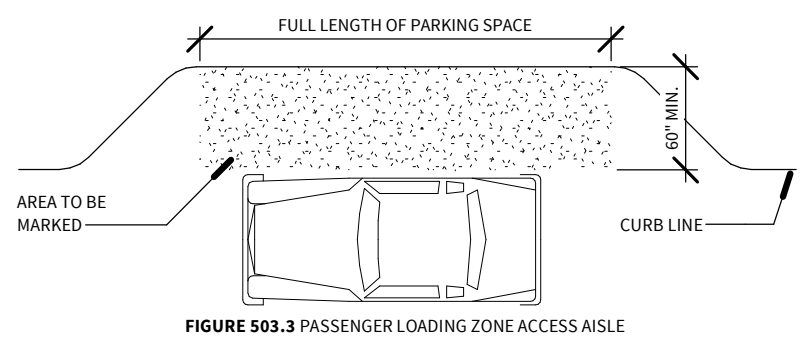


FIGURE 503.3 PASSENGER LOADING ZONE ACCESS AISLE

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.

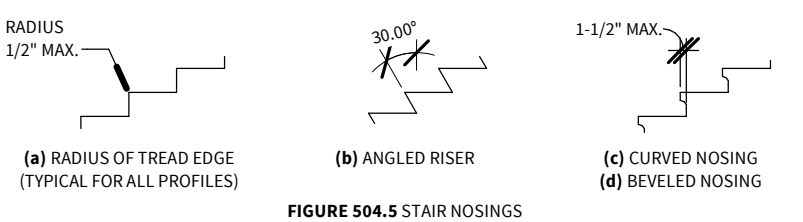


FIGURE 504.5 STAIR NOSINGS

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 RAMP 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.

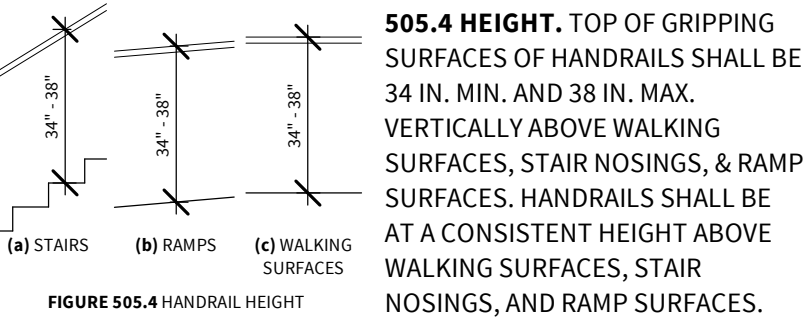


FIGURE 505.4 HANDRAIL HEIGHT

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.

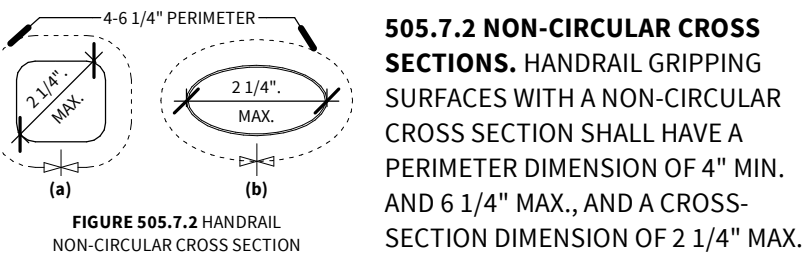


FIGURE 505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION

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.

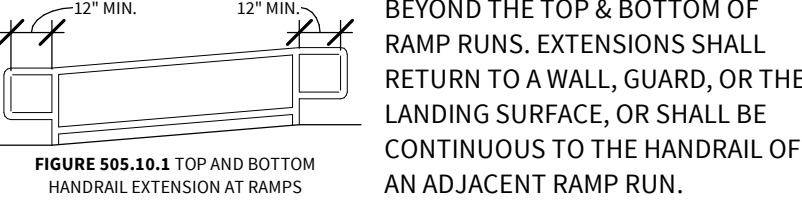


FIGURE 505.10.1 TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

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.

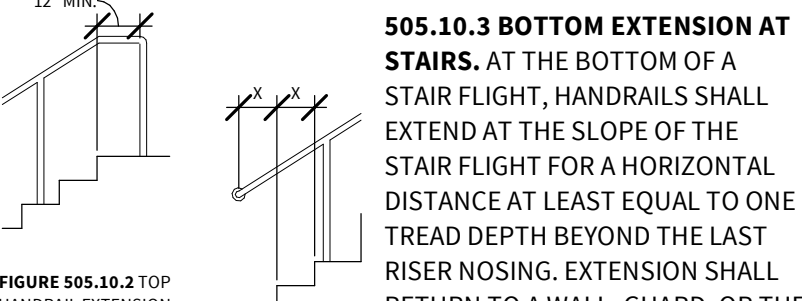


FIGURE 505.10.2 TOP HANDRAIL EXTENSION AT STAIRS

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.

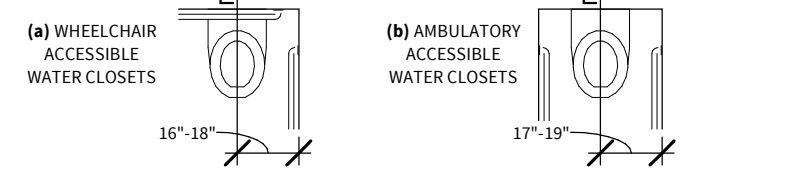


FIGURE 604.2 WATER CLOSET LOCATION

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

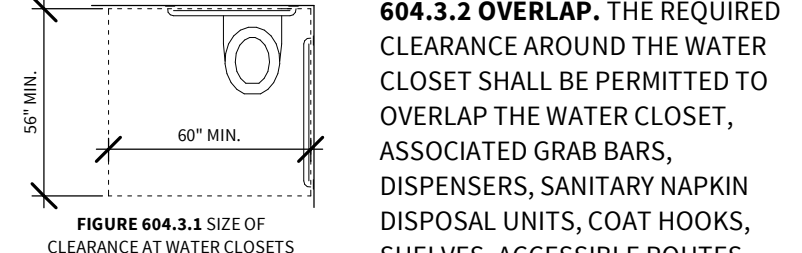


FIGURE 604.3.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS

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.

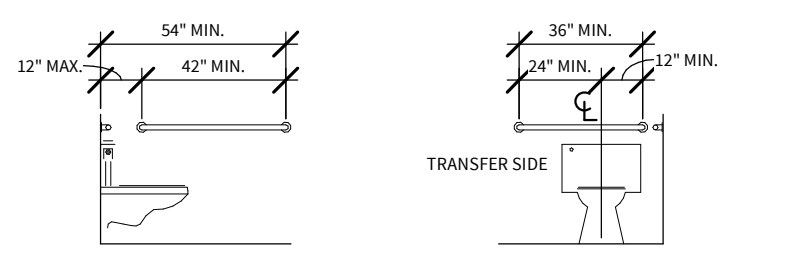


FIGURE 604.5.1 SIDE WALL GRAB BAR AT WATER CLOSETS

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.

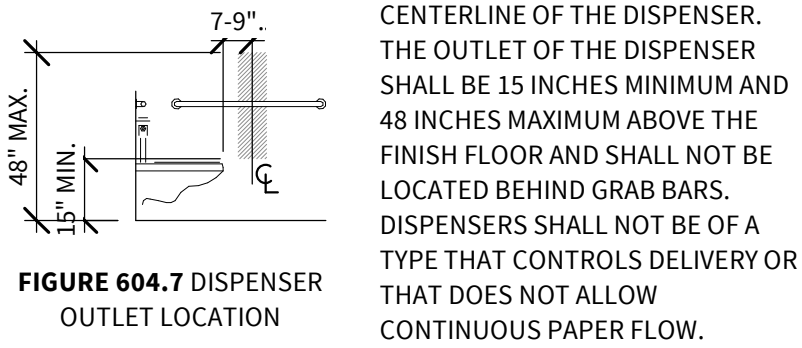


FIGURE 604.7 DISPENSER OUTLET LOCATION

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.

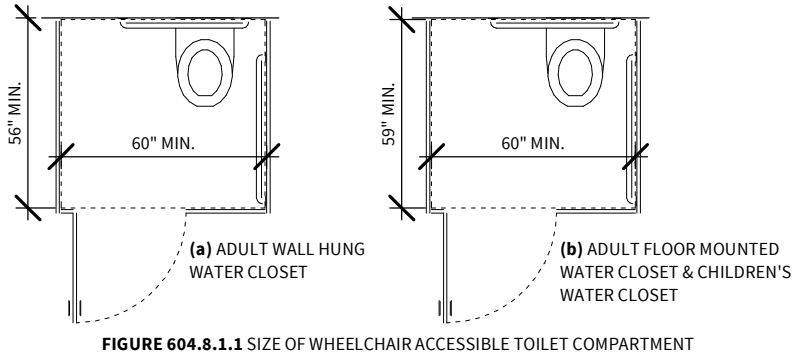


FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

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

604.8.1.4 TOE CLEARANCE. THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES DEEP MINIMUM BEYOND THE COMPARTMENT- SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES MINIMUM ABOVE THE FINISH FLOOR. EXCEPTION: TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT

GREATER THAN 62 INCHES DEEP WITH A WALL-HUNG WATER CLOSET OR 65 INCHES DEEP WITH A FLOOR-MOUNTED WATER CLOSET. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66 INCHES WIDE. TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT FOR CHILDREN'S USE THAT IS GREATER THAN 65 INCHES DEEP.

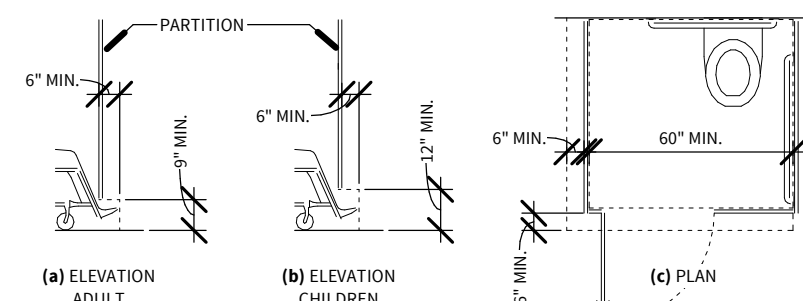


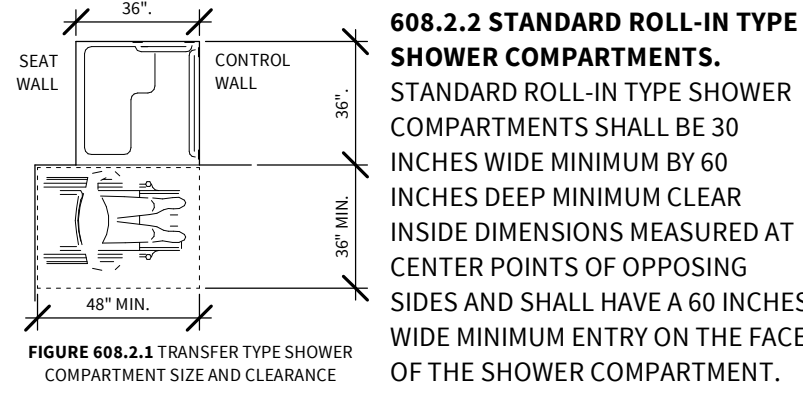
FIGURE 604.8.1.4 WHEELCHAIR



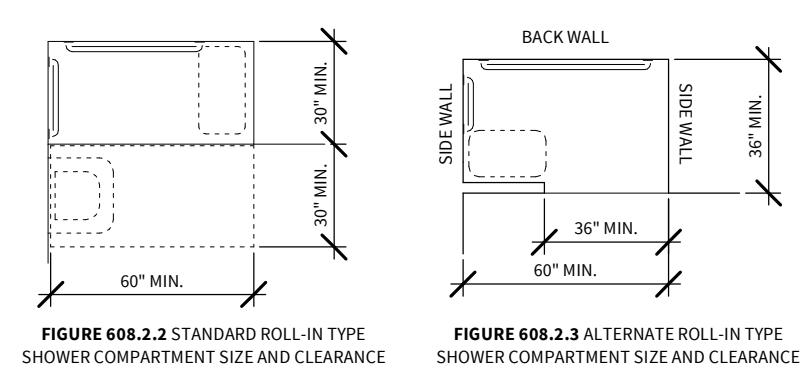
## 608 SHOWER COMPARTMENTS

**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.

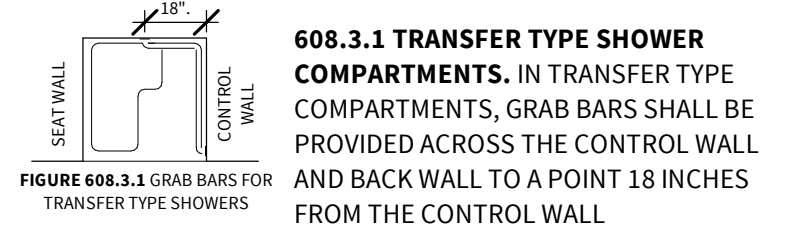


**608.2.2.1 CLEARANCE.** A 30 INCH WIDE MINIMUM BY 60 INCH LONG MINIMUM CLEARANCE SHALL BE PROVIDED ADJACENT TO THE OPEN FACE OF THE SHOWER COMPARTMENT.

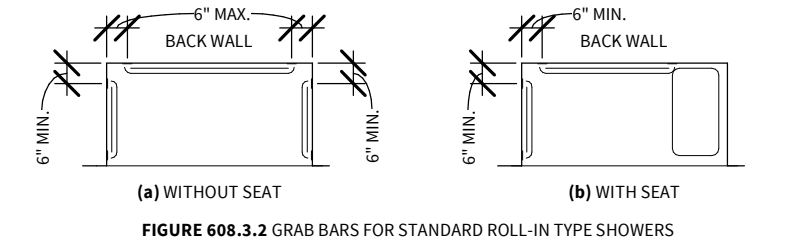


**608.2.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS.** ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 36 INCHES WIDE AND 60 INCHES DEEP MINIMUM CLEAR INSIDE DIMENSIONS MEASURED AT CENTER POINTS OF OPPOSING SIDES. A 36 INCH WIDE MINIMUM ENTRY SHALL BE PROVIDED AT ONE END OF THE LONG SIDE OF THE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

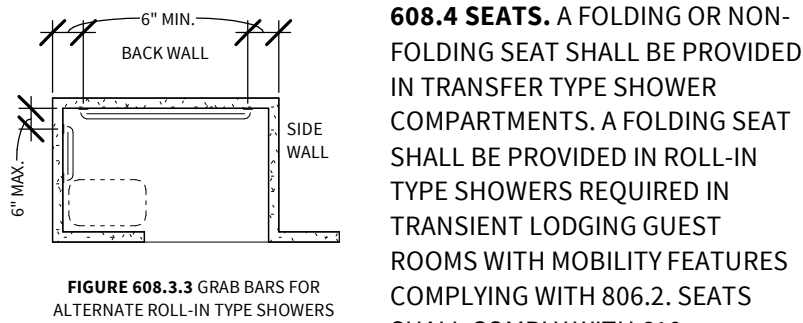
**608.3 GRAB BARS.** GRAB BARS SHALL COMPLY WITH 609 AND SHALL BE PROVIDED IN ACCORDANCE WITH 608.3. WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE THE FINISH FLOOR.



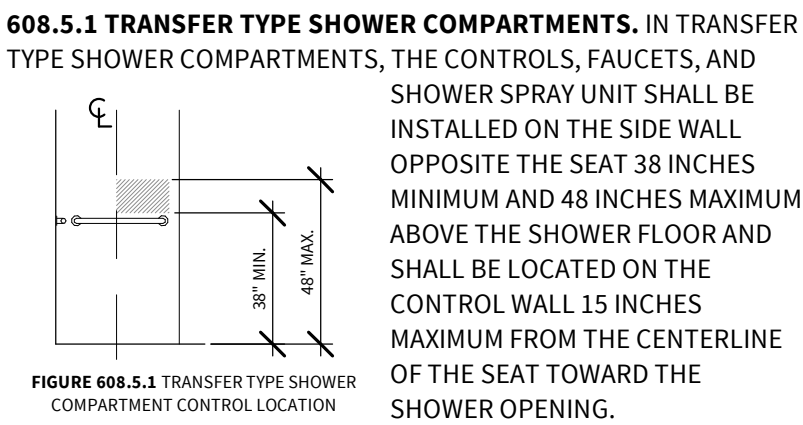
**608.3.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS.** WHERE A SEAT IS PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL OPPOSITE THE SEAT. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. WHERE A SEAT IS NOT PROVIDED IN STANDARD ROLL-IN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



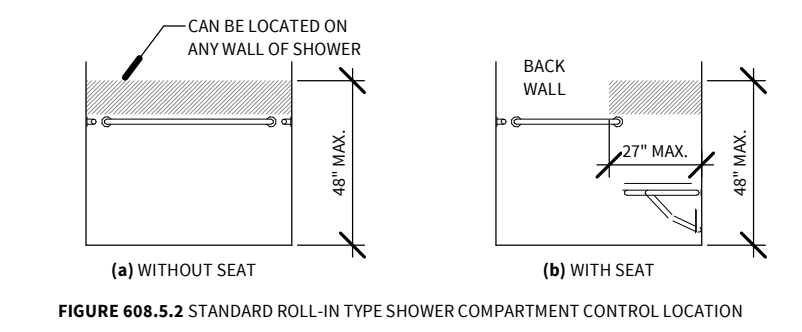
**608.3.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS.** IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL FARTEST FROM THE COMPARTMENT ENTRY. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. GRAB BARS SHALL BE INSTALLED 6 INCHES MAXIMUM FROM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



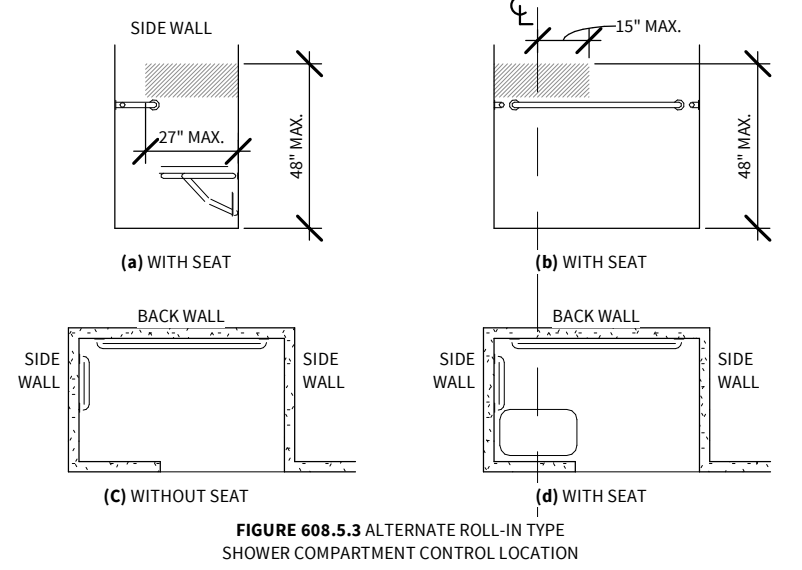
**608.5 CONTROLS.** CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL COMPLY WITH 309.4.



**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

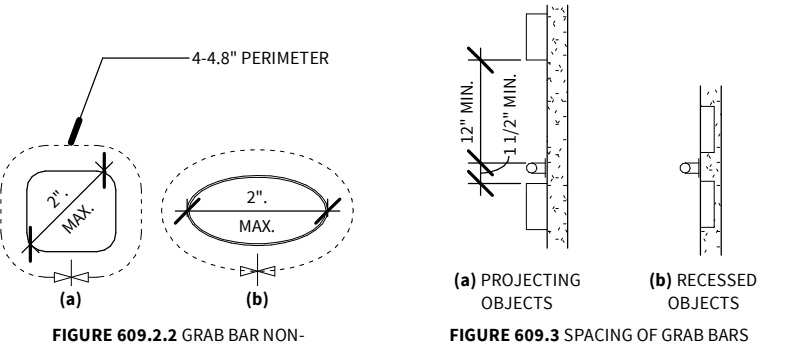
**608.8 SHOWER ENCLOSURES.** ENCLOSURES FOR SHOWER COMPARTMENTS SHALL NOT OBSTRUCT CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

**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.

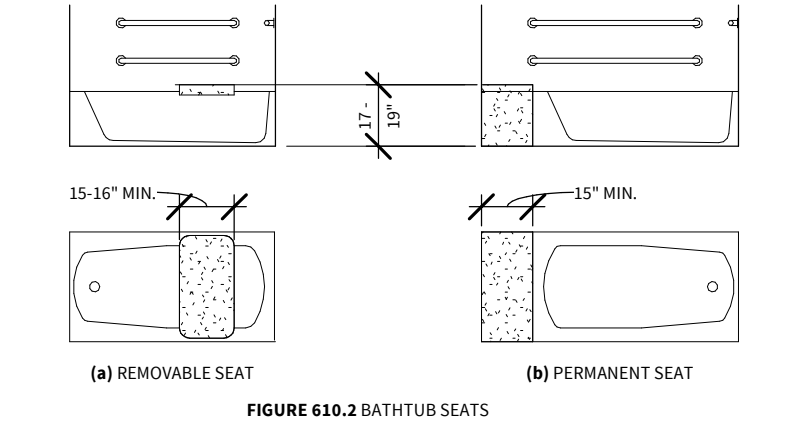
**609.6 FITTINGS.** GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

**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.

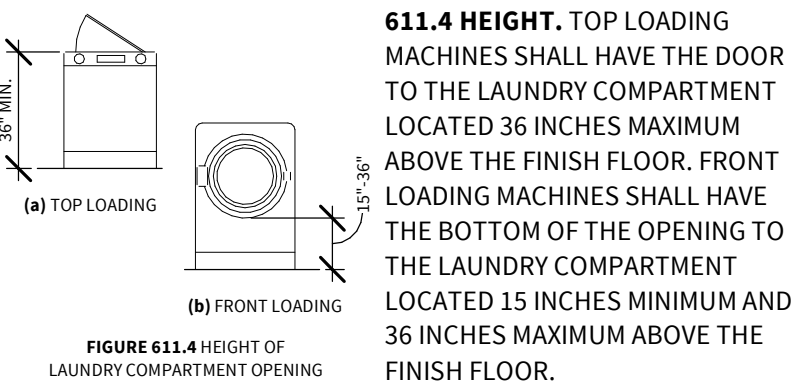
**610.3.2 L-SHAPED SEATS.** THE REAR EDGE OF AN L-SHAPED SEAT SHALL BE 2 1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES (380 MM) MINIMUM AND 16 INCHES MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1 1/2 INCHES MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14 INCHES 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 TTYs 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 DIGITIZED HUMAN, OR SYNTHESIZED.

**707.5.1 USER CONTROL.** SPEECH SHALL BE CAPABLE OF BEING REPEATED OR INTERRUPTED. VOLUME CONTROL SHALL BE PROVIDED FOR THE SPEECH FUNCTION.

**707.5.2 RECEIPTS.** WHERE RECEIPTS ARE PROVIDED, SPEECH OUTPUT DEVICES SHALL PROVIDE AUDIBLE BALANCE INQUIRY INFORMATION, ERROR MESSAGES, AND ALL OTHER INFORMATION ON THE PRINTED RECEIPT NECESSARY TO COMPLETE OR VERIFY THE TRANSACTION

**707.6 INPUT.** INPUT DEVICES SHALL COMPLY WITH 707.6.

### 707.6.1 INPUT CONTROLS.

AT LEAST ONE TACTILELY DISCERNIBLE INPUT CONTROL SHALL BE PROVIDED FOR EACH FUNCTION. WHERE PROVIDED, KEY SURFACES NOT ON ACTIVE AREAS OF DISPLAY SCREENS, SHALL BE RAISED ABOVE SURROUNDING SURFACES. WHERE MEMBRANE



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

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75460

PROJECT NUMBER: 21-90T

ISSUE DATE: 5/26/2022

REVISIONS:

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LIFE SAFETY PLAN

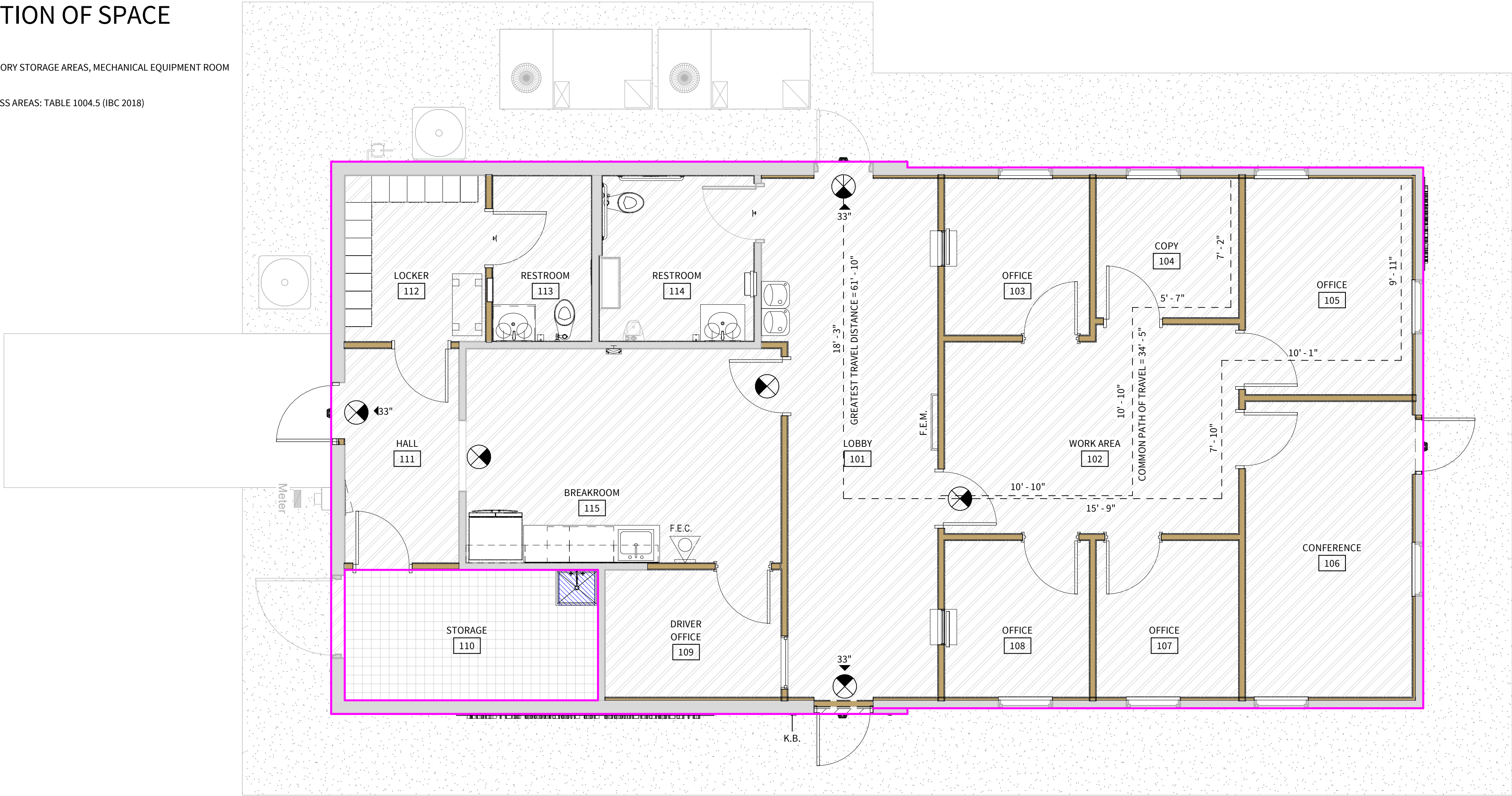
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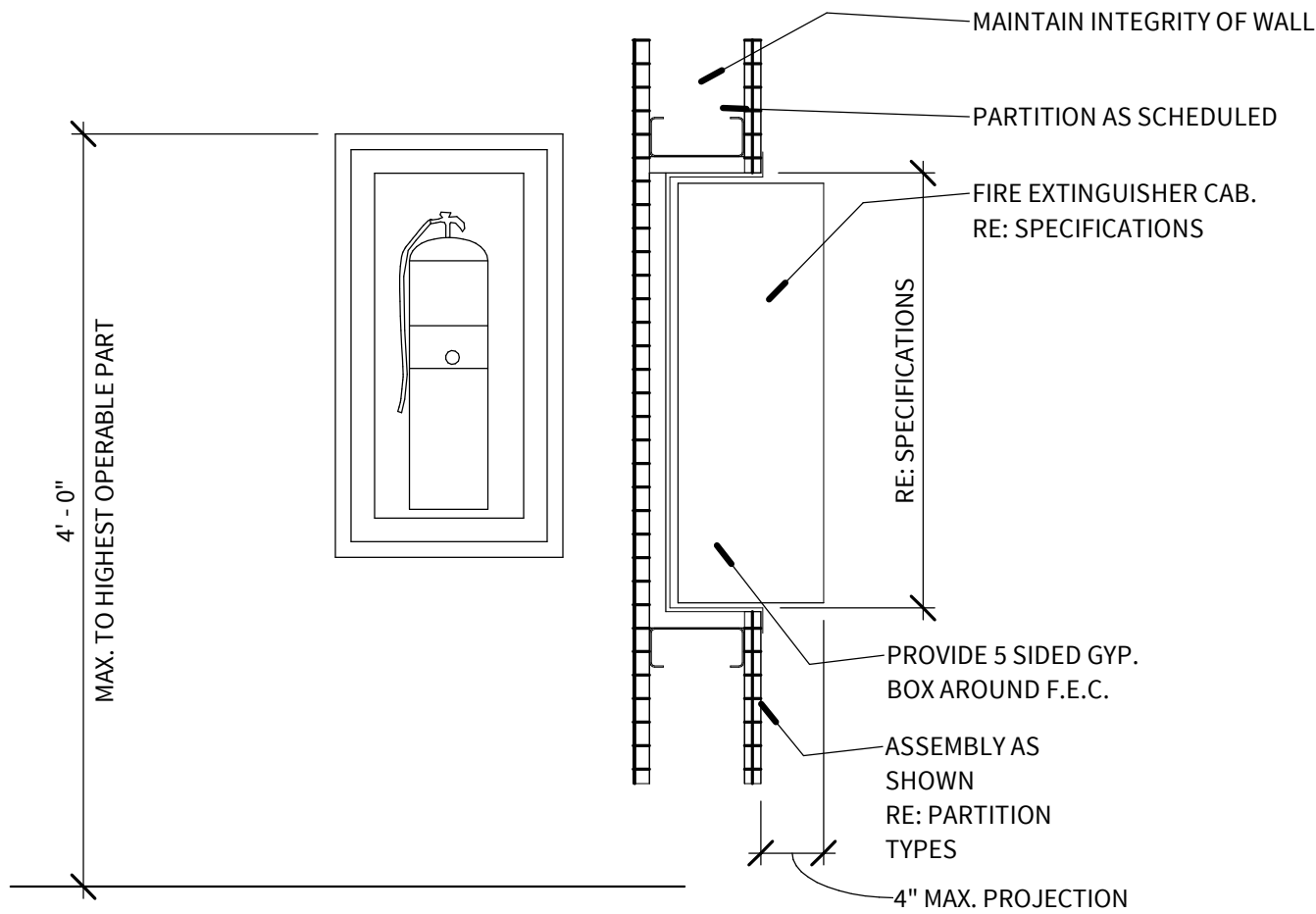
FUNCTION OF SPACE

- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- BUSINESS AREAS: TABLE 1004.5 (IBC 2018)



LIFE SAFETY LEGEND

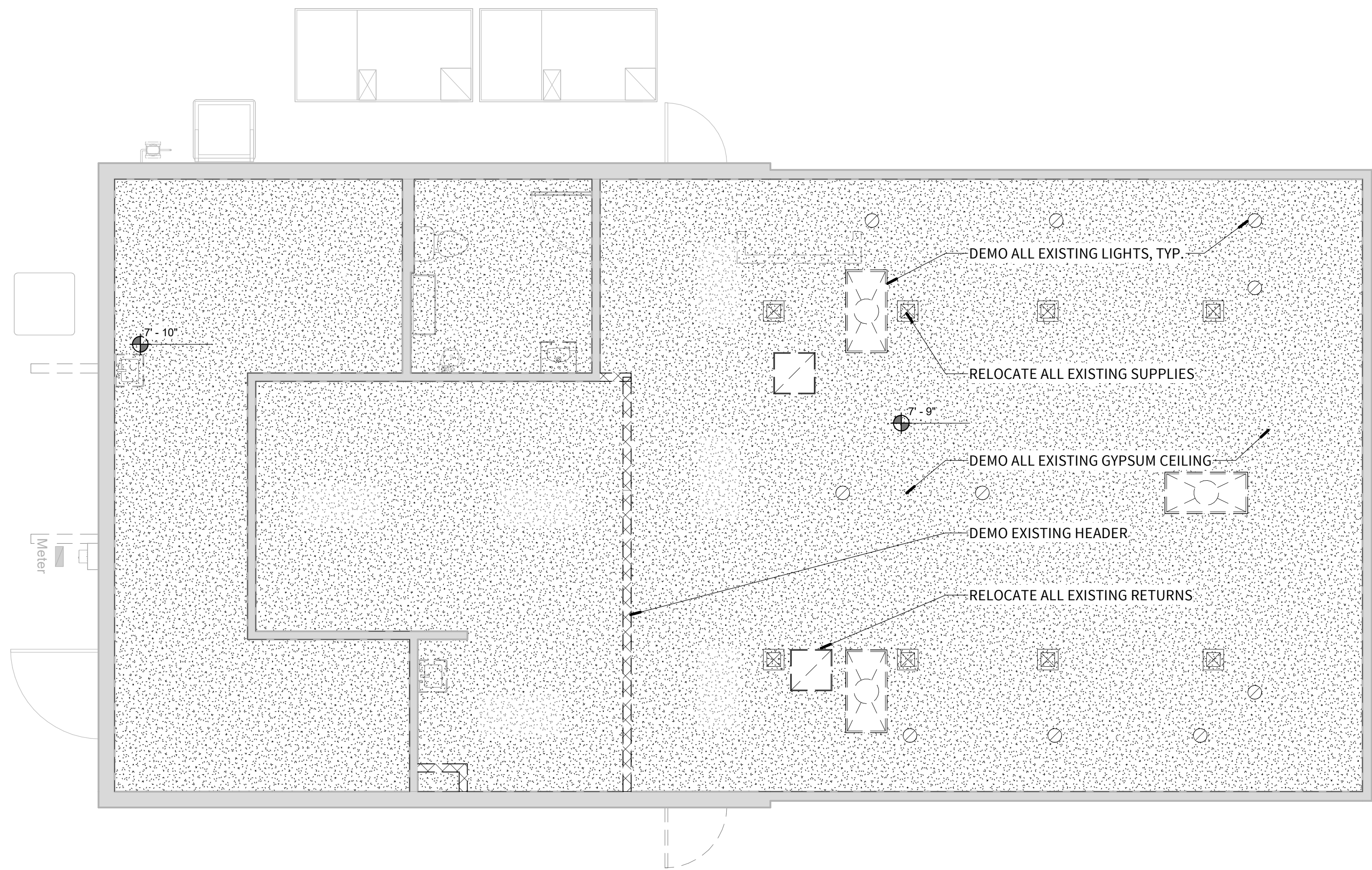
- FIRE EXTINGUISHER
- RECESSED KNOX BOX
- FIRE ALARM PANEL
- FIRE EVACUATION MAP
- ANSUL SYSTEM
- SECURITY CAMERA
- EXIT LOCATION AND WIDTH (IN.)
- FIRE RATING OF DOOR IN MINUTES (C INDICATES A CLOSER REQUIRED AT THIS DOOR LOCATION)
- EXIT LIGHT FIXTURE W/ DIRECTION ADJACENT TO EACH DOOR TO AN EGRESS 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











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

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RCP DEMO PLAN

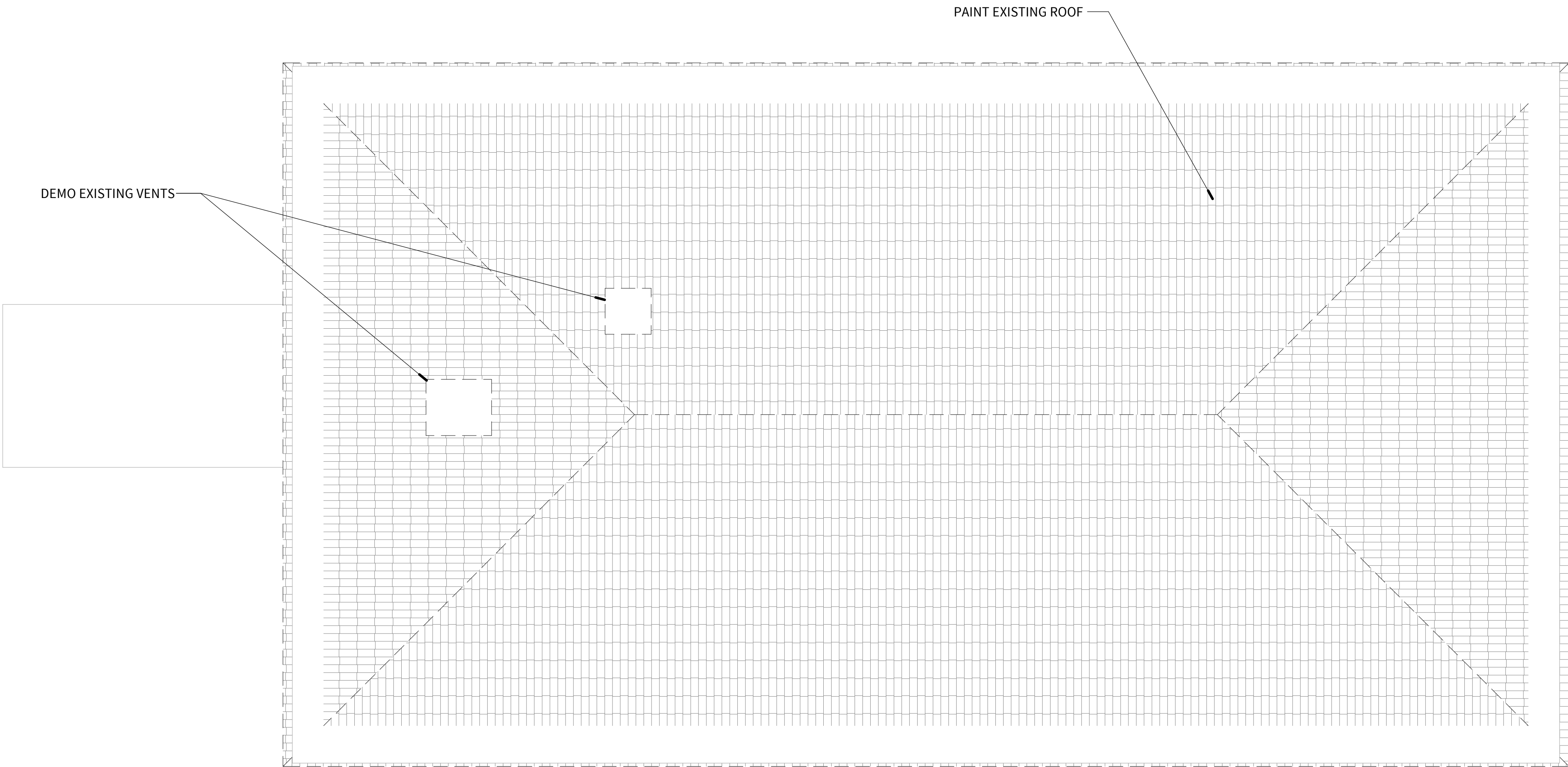
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**1** **ROOF DEMO PLAN**  
SCALE: 1/4" = 1'-0"

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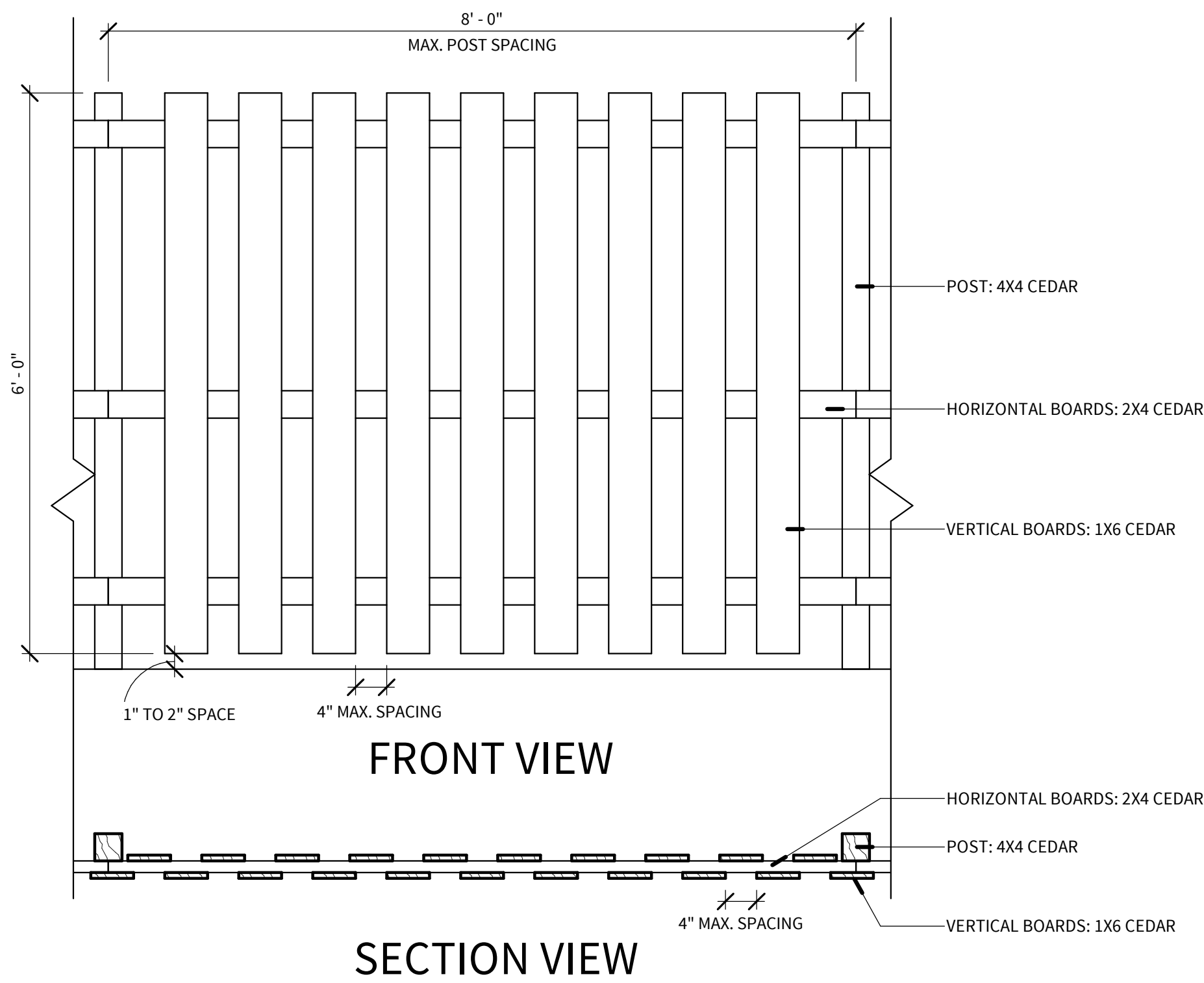
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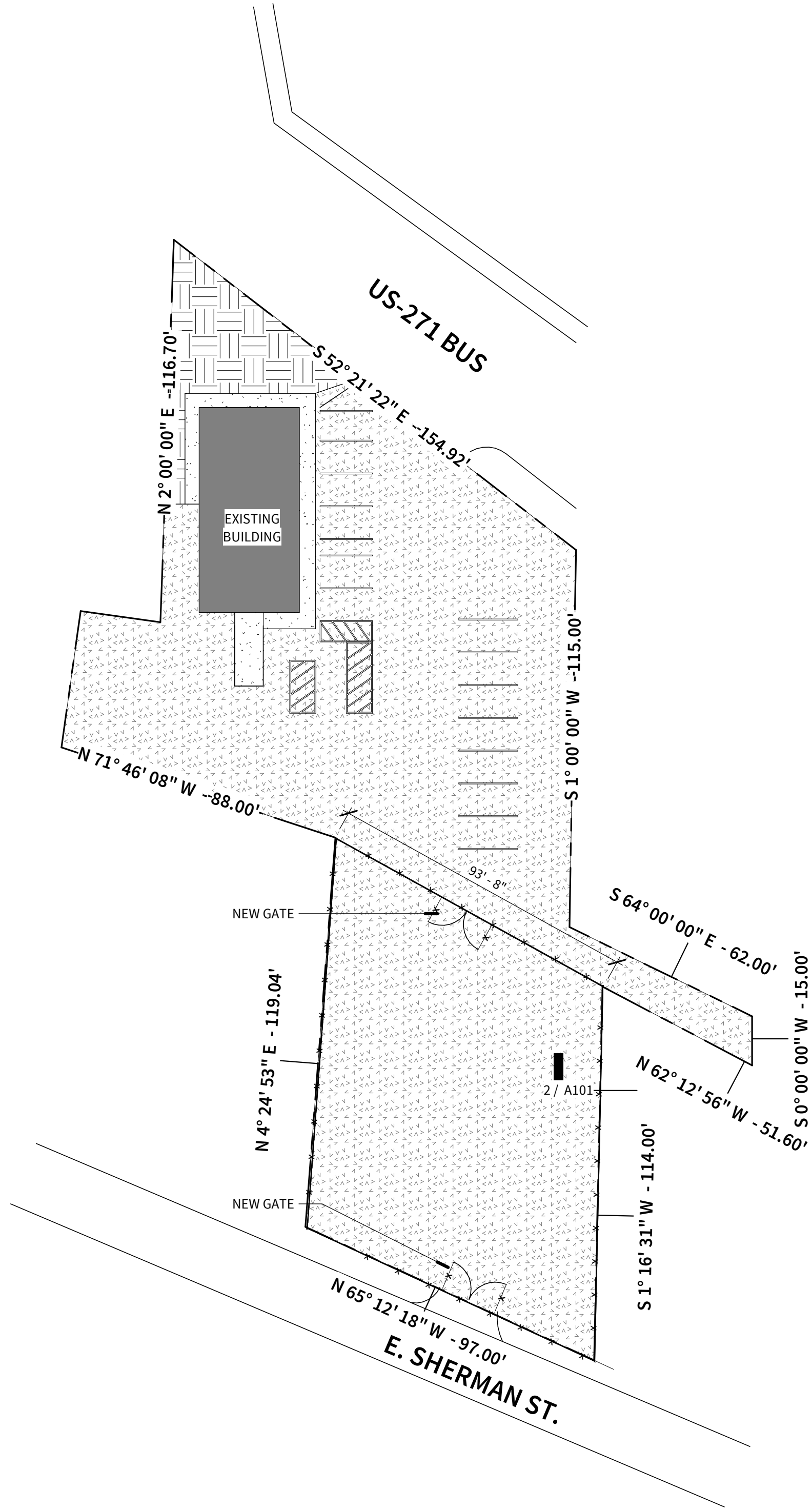
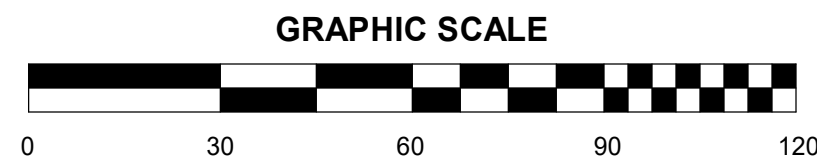
2 STOCKADE FENCE ELEVATION

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



1 SITE PLAN

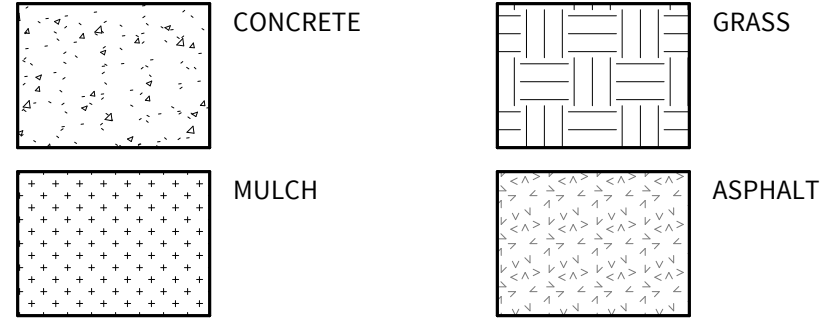
SCALE: 1" = 30'-0"



## 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

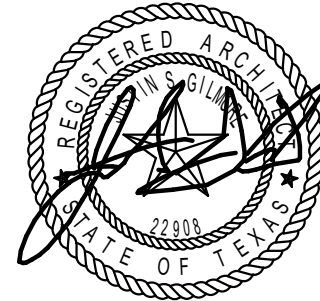


## FENCE LEGEND

WOOD STOCKADE FENCE RE: 2 / A101



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75460

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

SHEET NAME:

SITE PLAN

SHEET NUMBER:

A101

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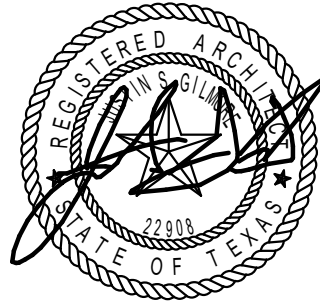


REFERENCE PLAN NOTES

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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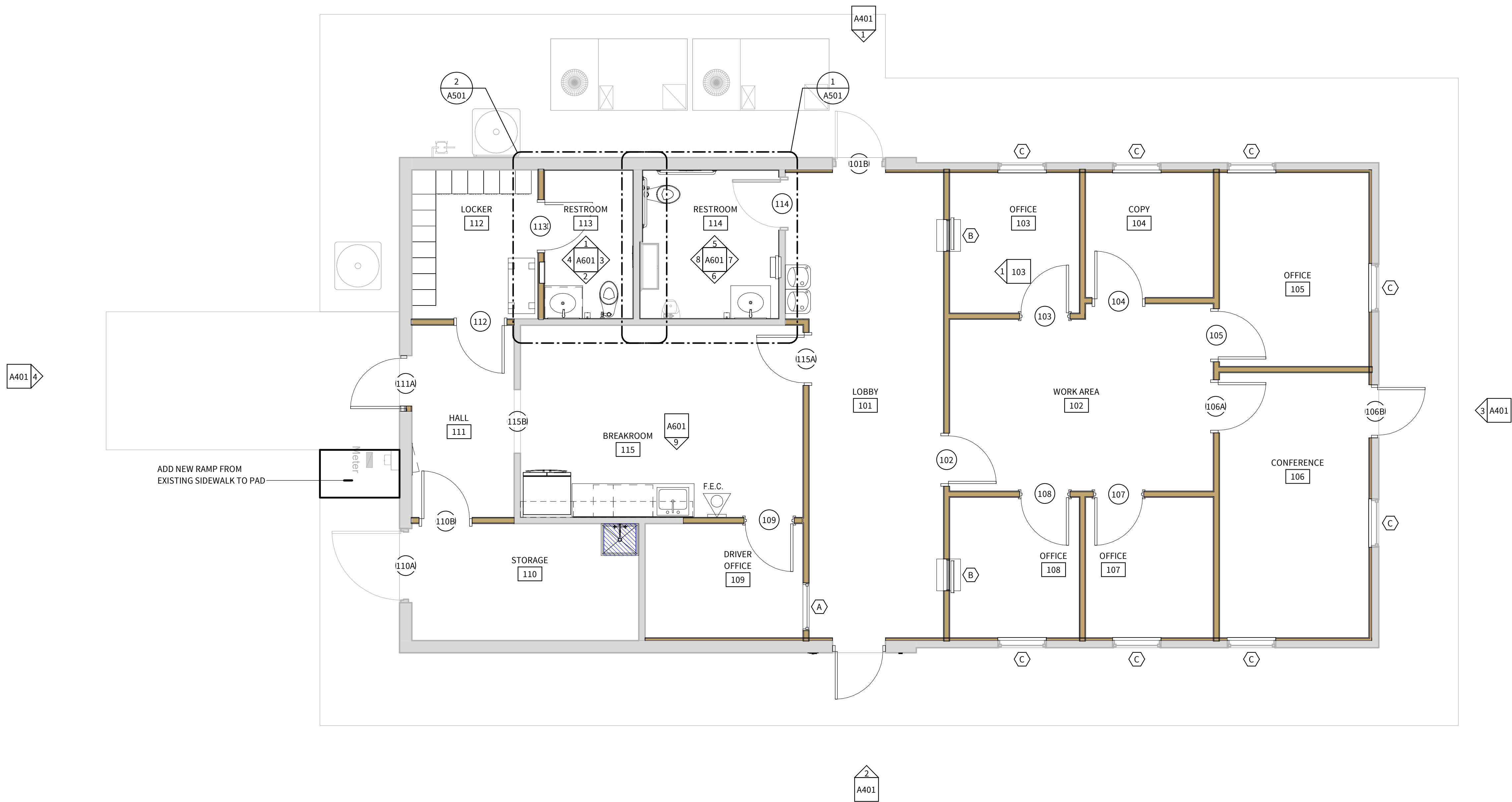
SHEET NAME:

REFERENCE PLAN

SHEET NUMBER:

A201

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1

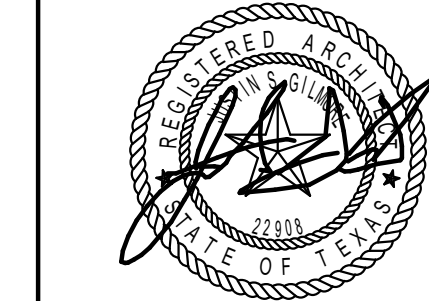
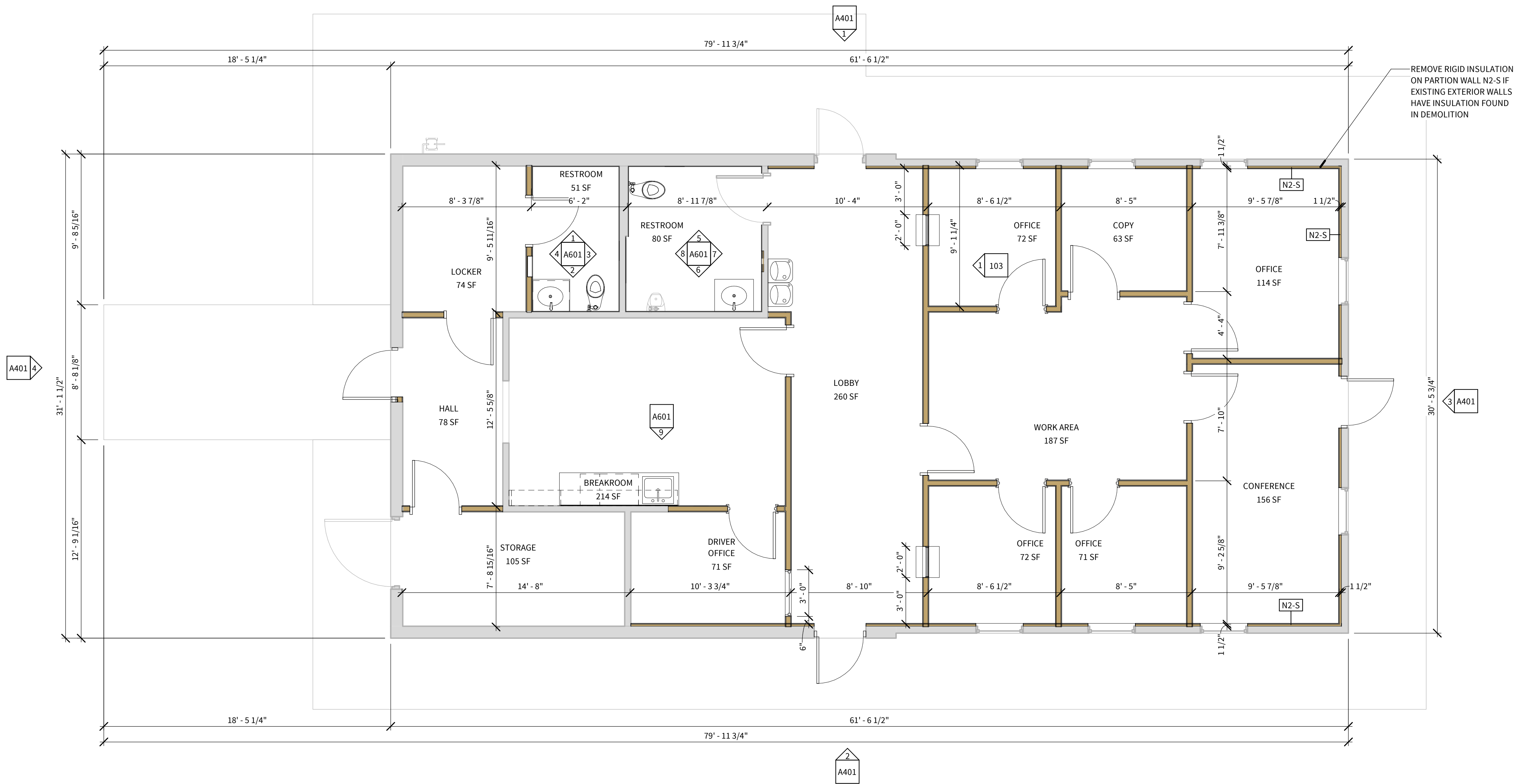
REFERENCE PLAN

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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REVISIONS:

SHEET NAME:

DIMENSION PLAN

SHEET NUMBER:

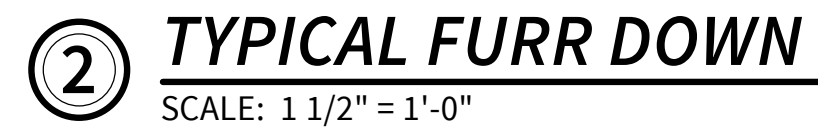
A202

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**1** DIMENSION PLAN

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

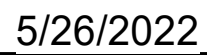




# CEILING PLAN NOTES

---

1. UNLESS NOTED OTHERWISE ALL CEILINGS ARE TO BE 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**

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

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SYMBOL LEGEND

- A

GLAZING TYPE DESIGNATION
- C

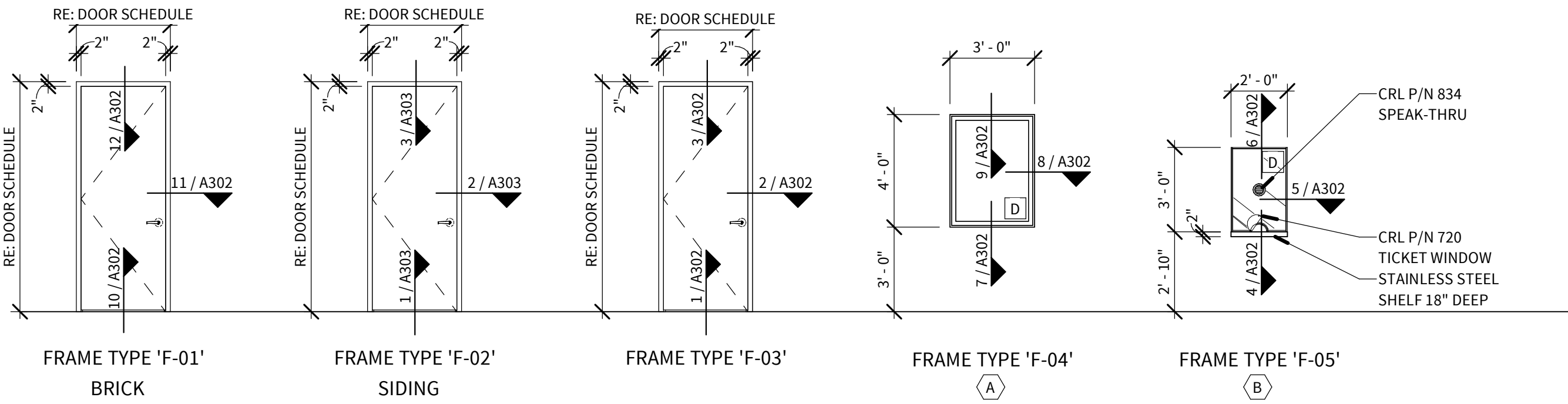
FRAME TYPE DESIGNATION

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"		--	--	--	--	--		CASED OPENING

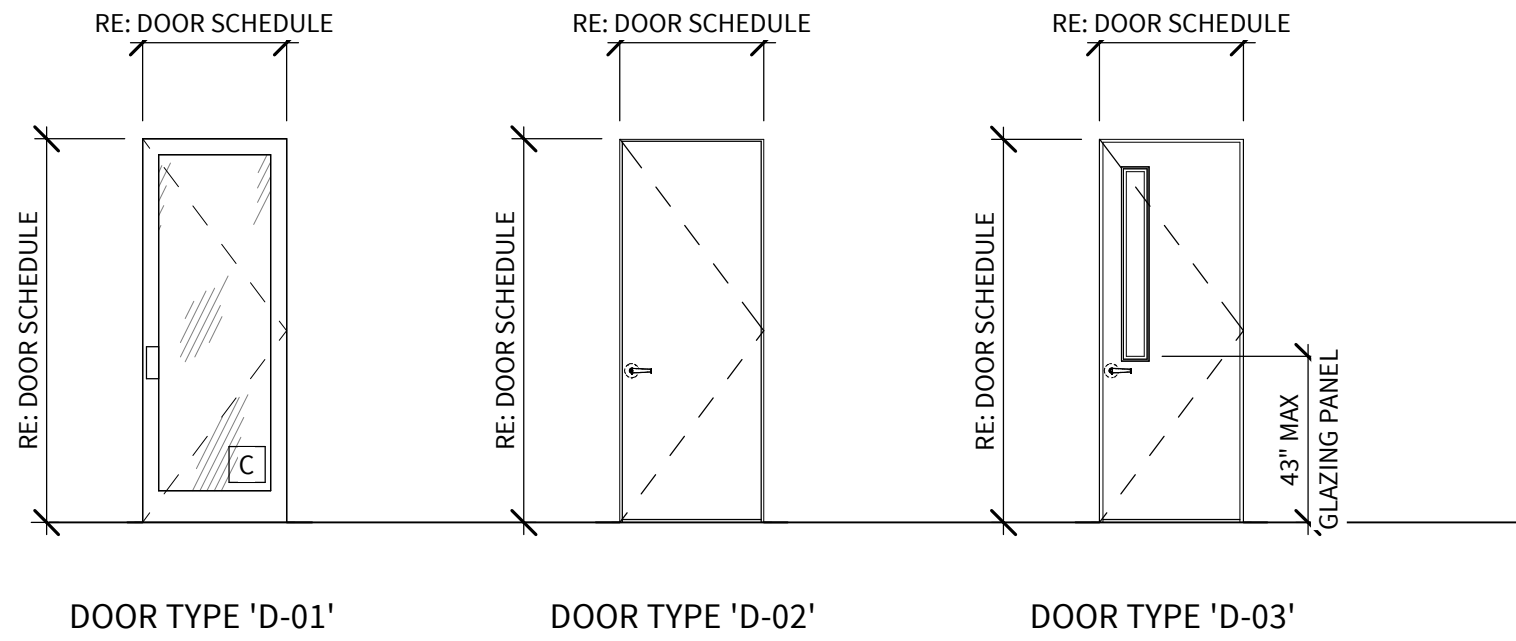
WINDOW SCHEDULE

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"

LEVEL5

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DOOR & WINDOW SCHEDULES

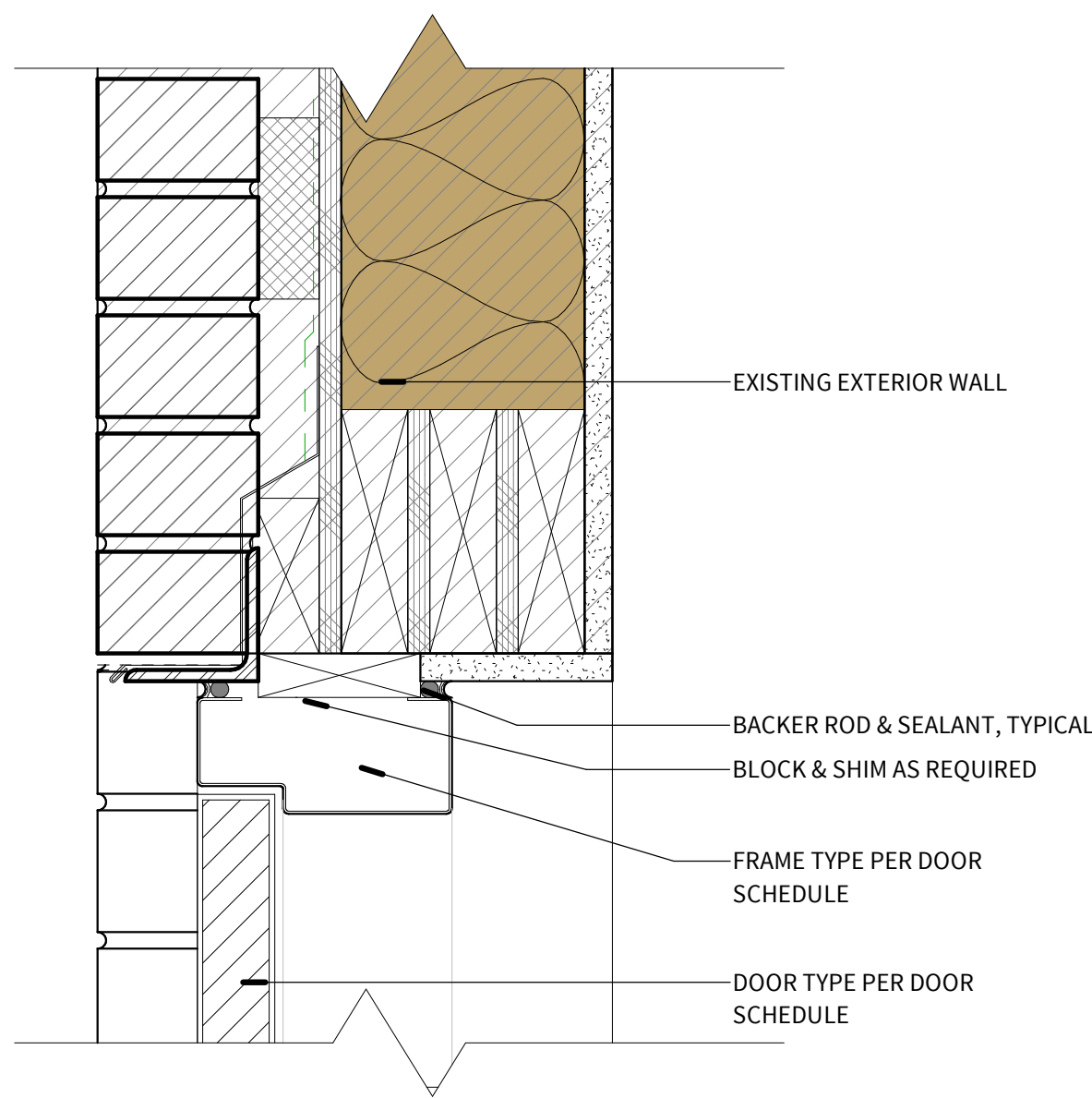
SHEET NUMBER:

A301

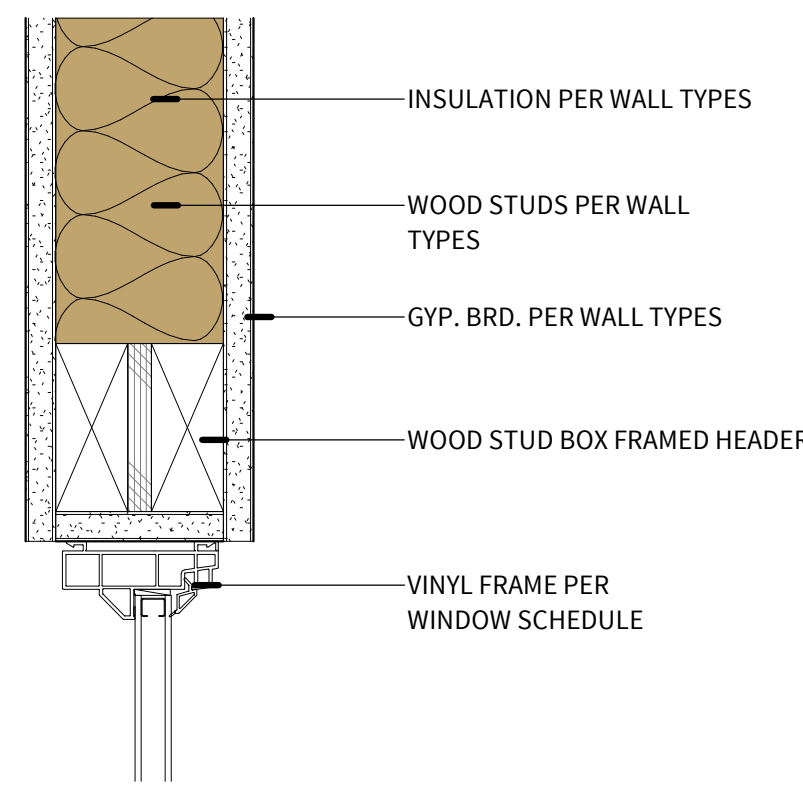
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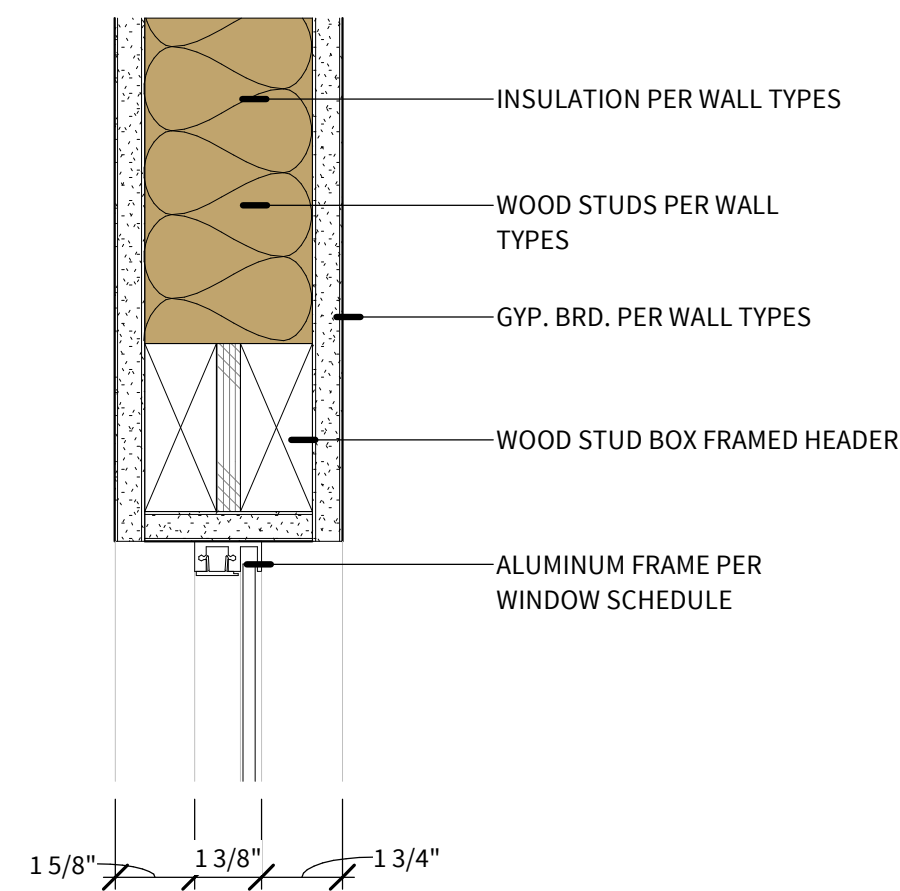




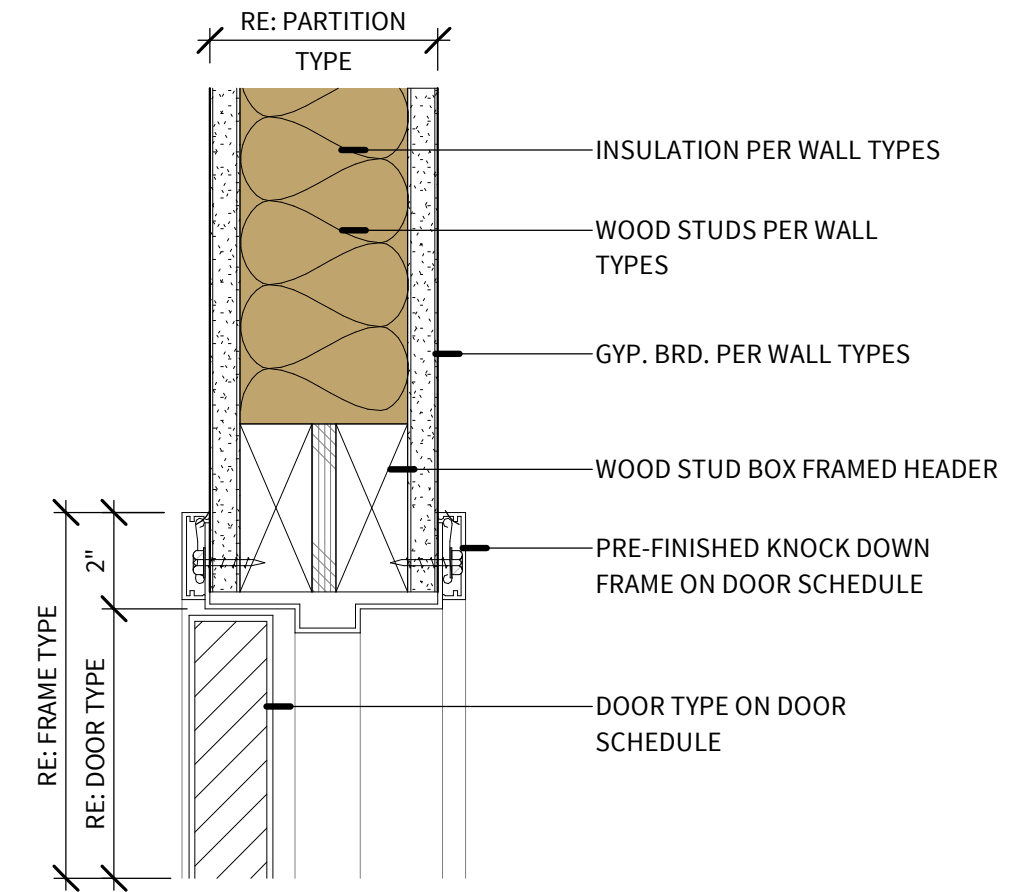
**12 HM DOOR HEAD**  
SCALE: 3" = 1'-0"



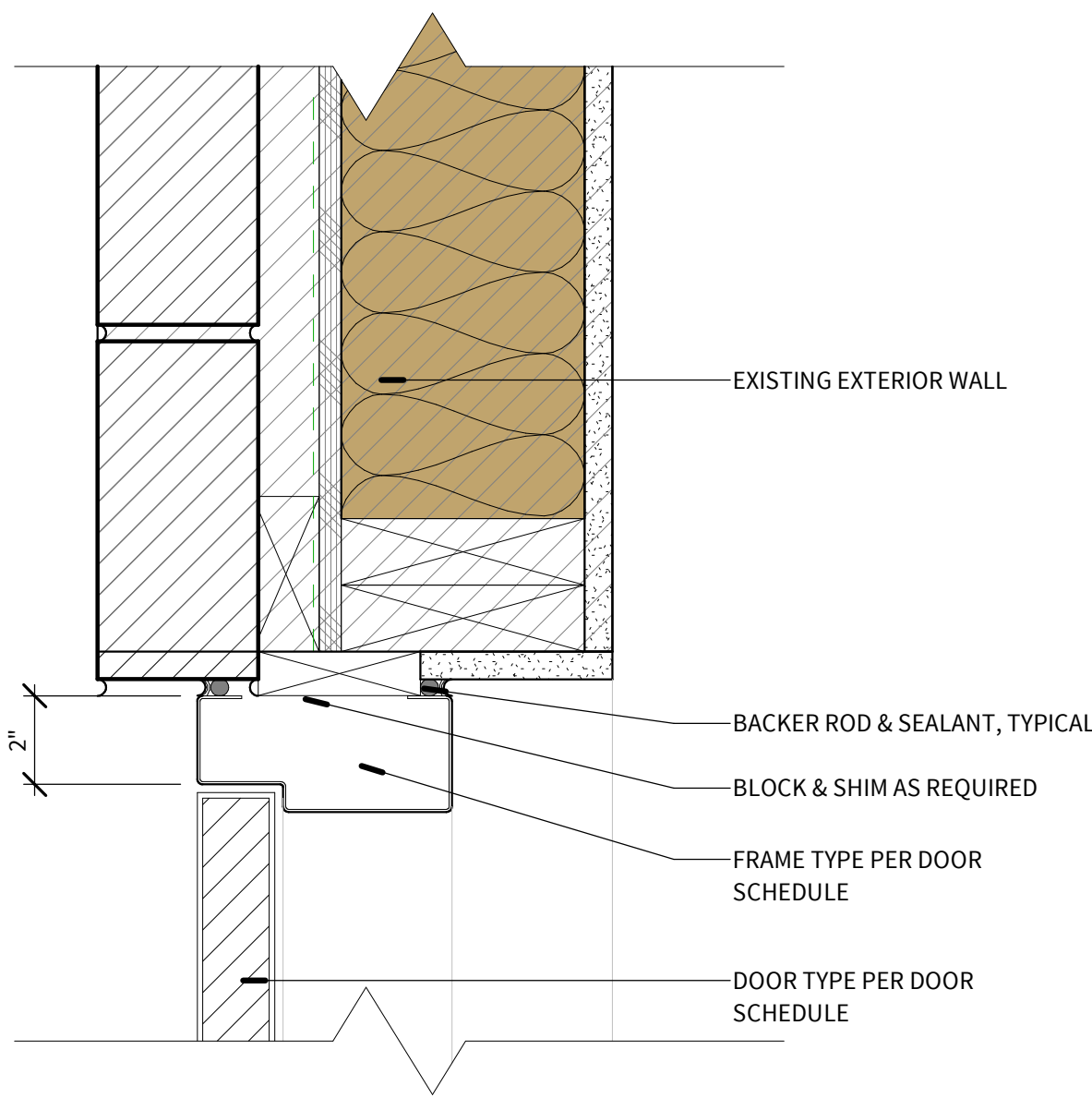
**9 VINYL WINDOW HEAD**  
SCALE: 3" = 1'-0"



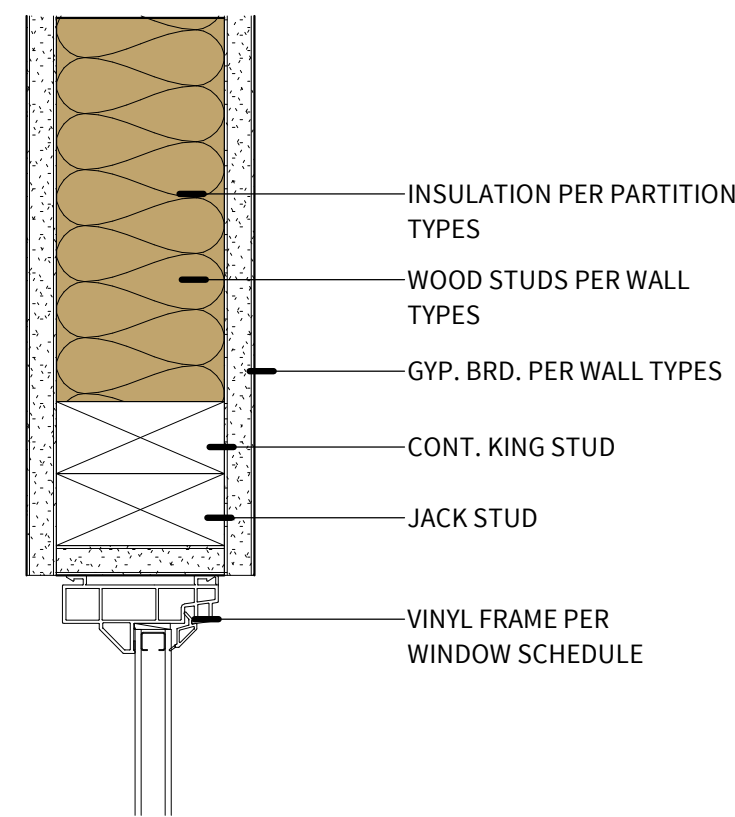
**6 TICKET WINDOW HEAD**  
SCALE: 3" = 1'-0"



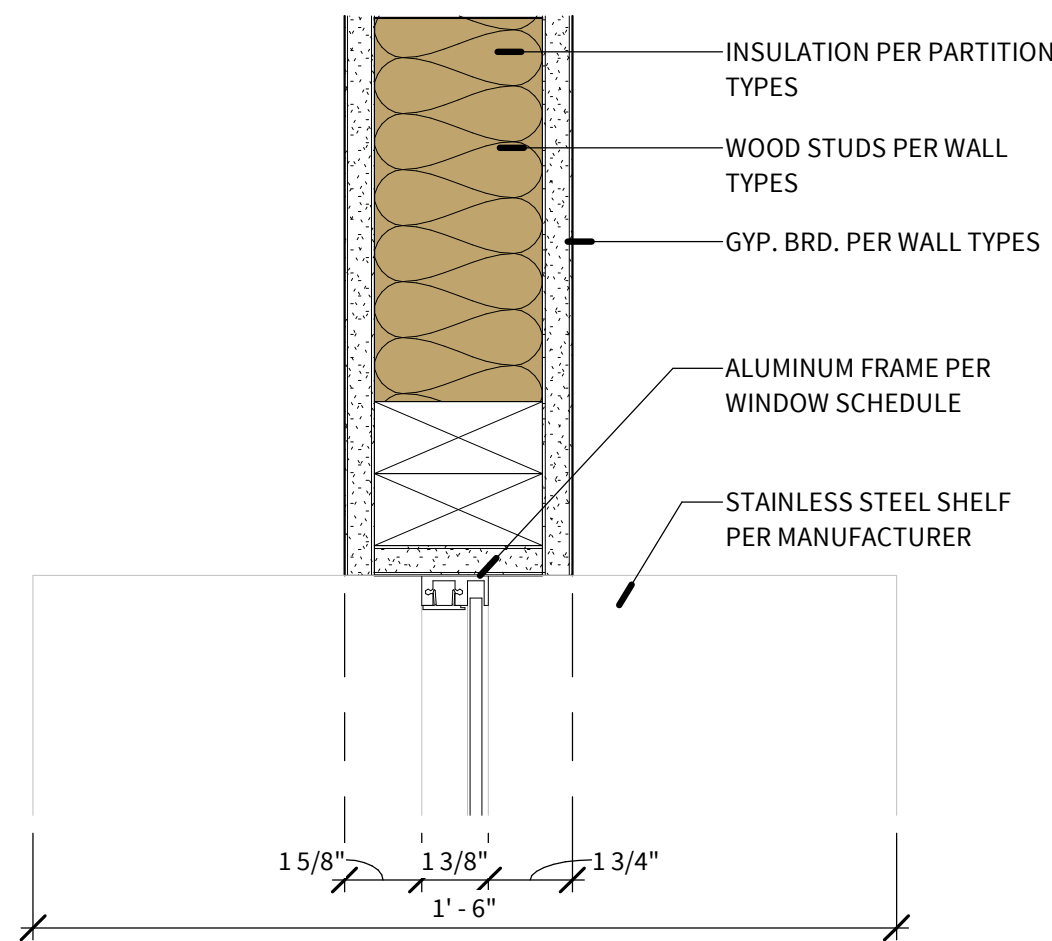
**3 ALUMINUM FRAME HEAD TYP.**  
SCALE: 3" = 1'-0"



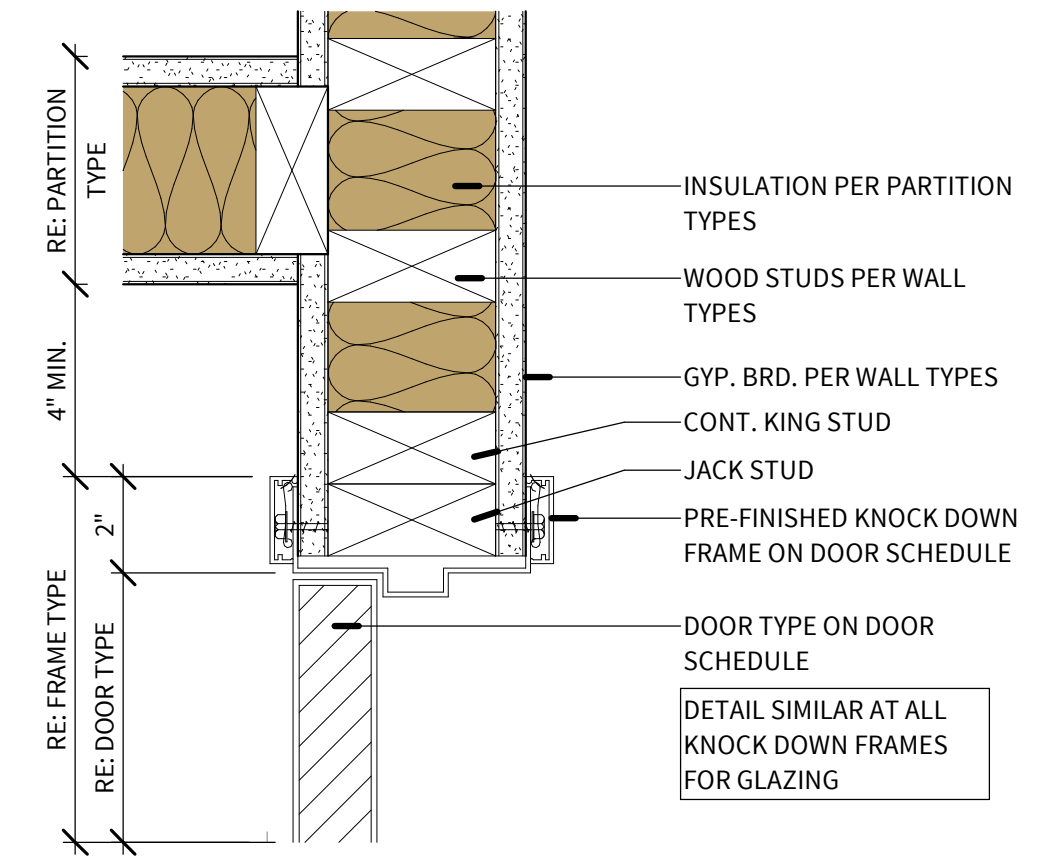
**11 HM DOOR JAMB**  
SCALE: 3" = 1'-0"



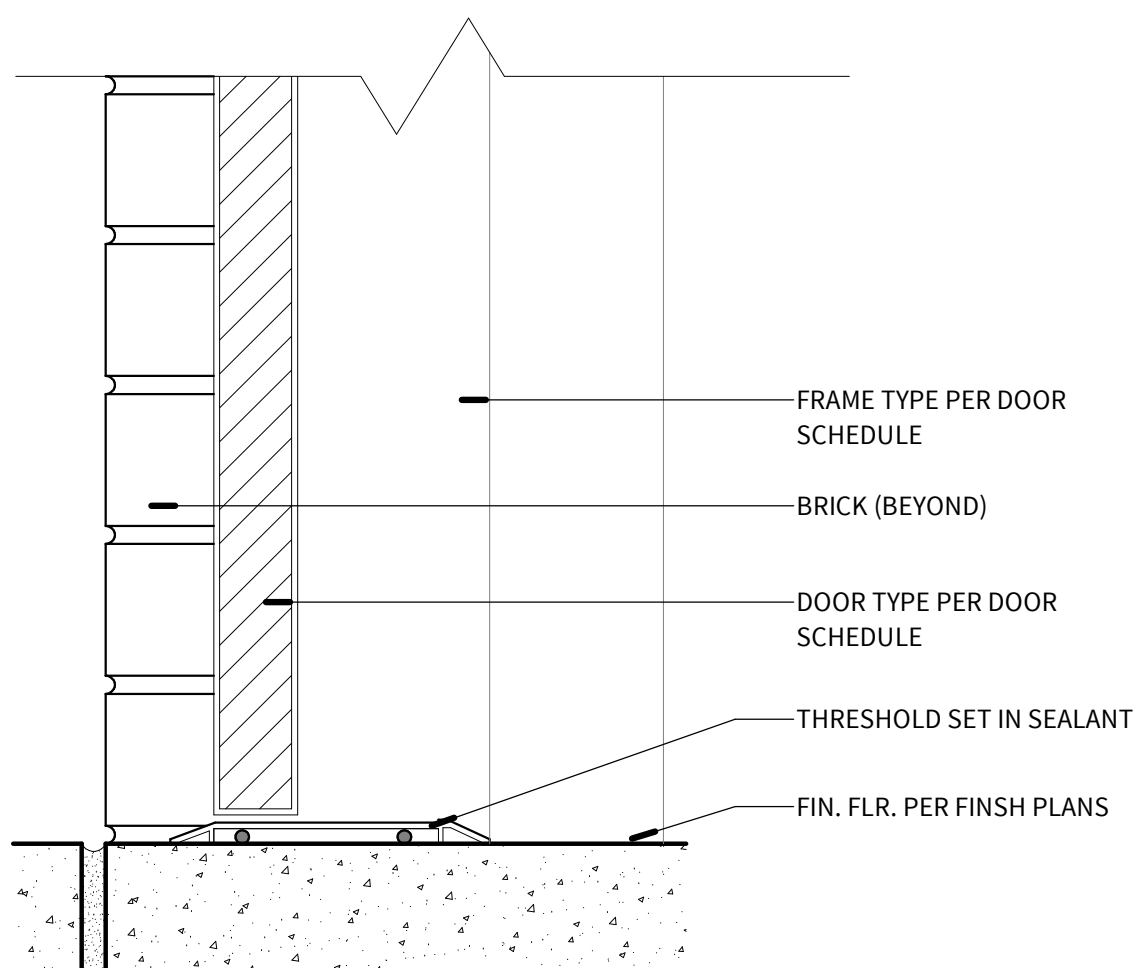
**8 VINYL WINDOW JAMB**  
SCALE: 3" = 1'-0"



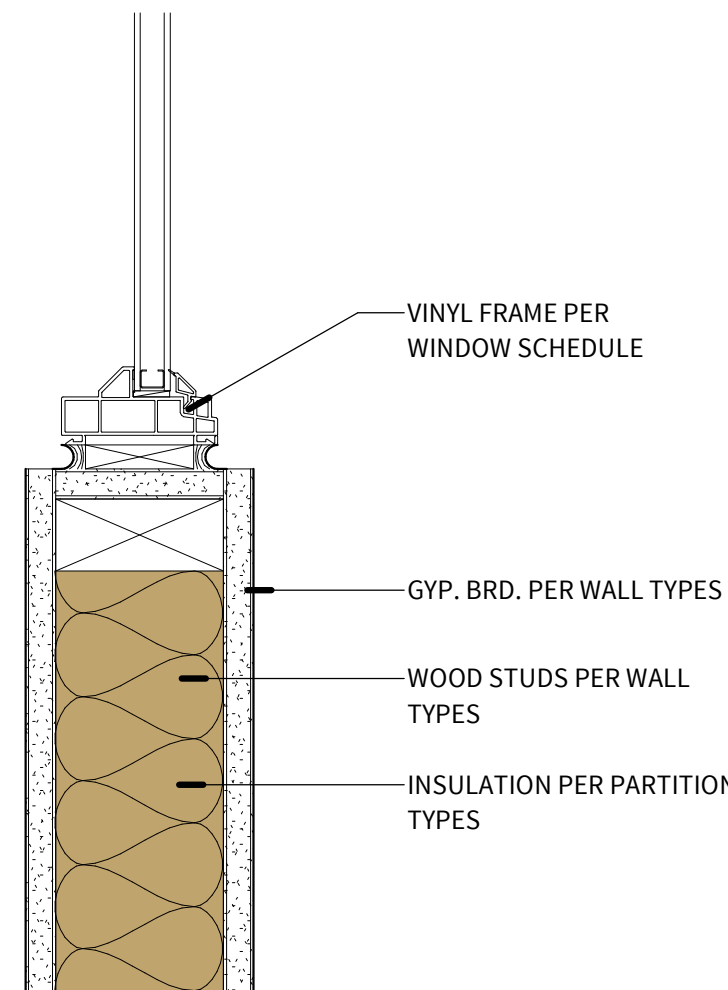
**5 TICKET WINDOW JAMB**  
SCALE: 3" = 1'-0"



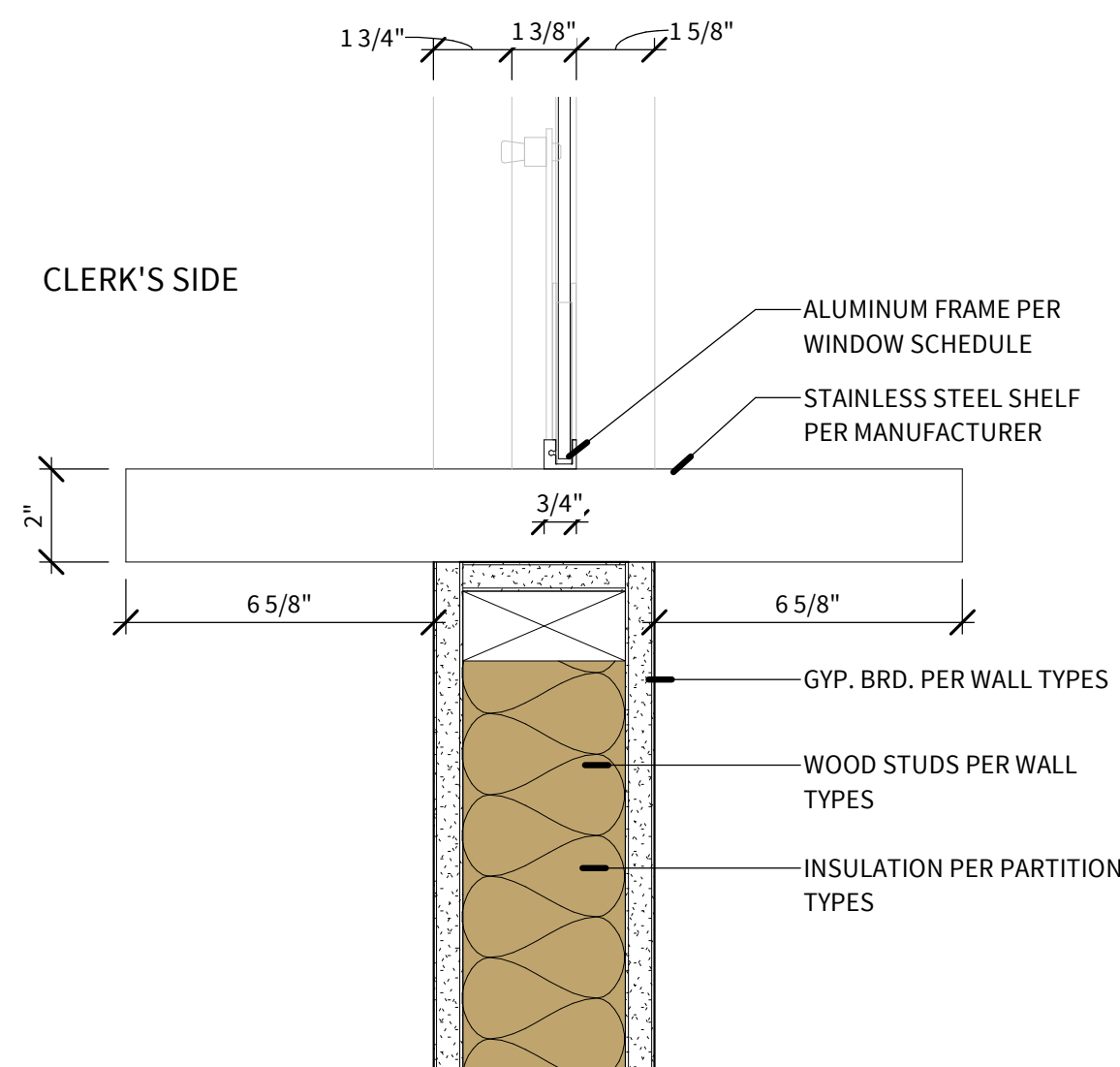
**2 ALUMINUM FRAME JAMB TYP.**  
SCALE: 3" = 1'-0"



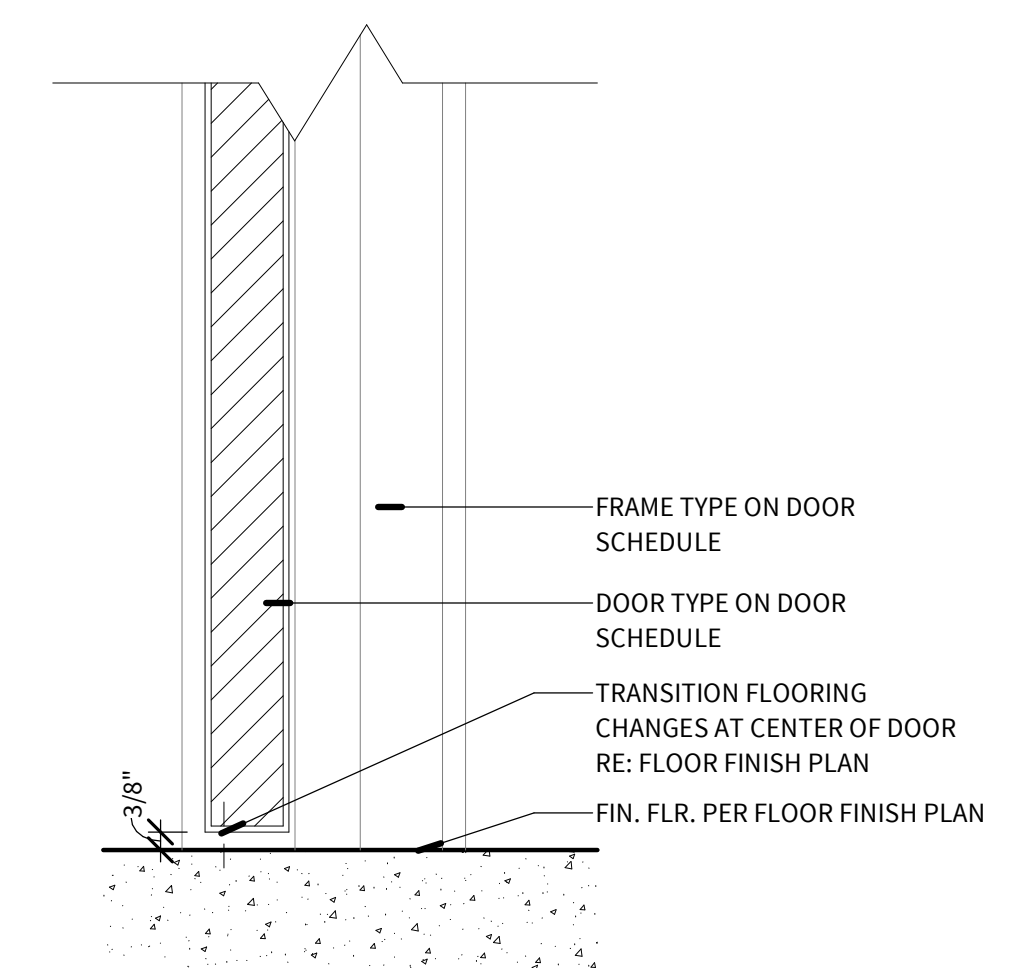
**10 HM THRESHOLD**  
SCALE: 3" = 1'-0"



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



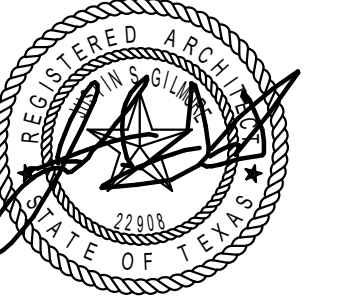
**4 TICKET WINDOW SILL**  
SCALE: 3" = 1'-0"



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



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1610 CLARKSVILLE  
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SHEET NAME:

HEAD, JAMB & SILL  
DETAILS

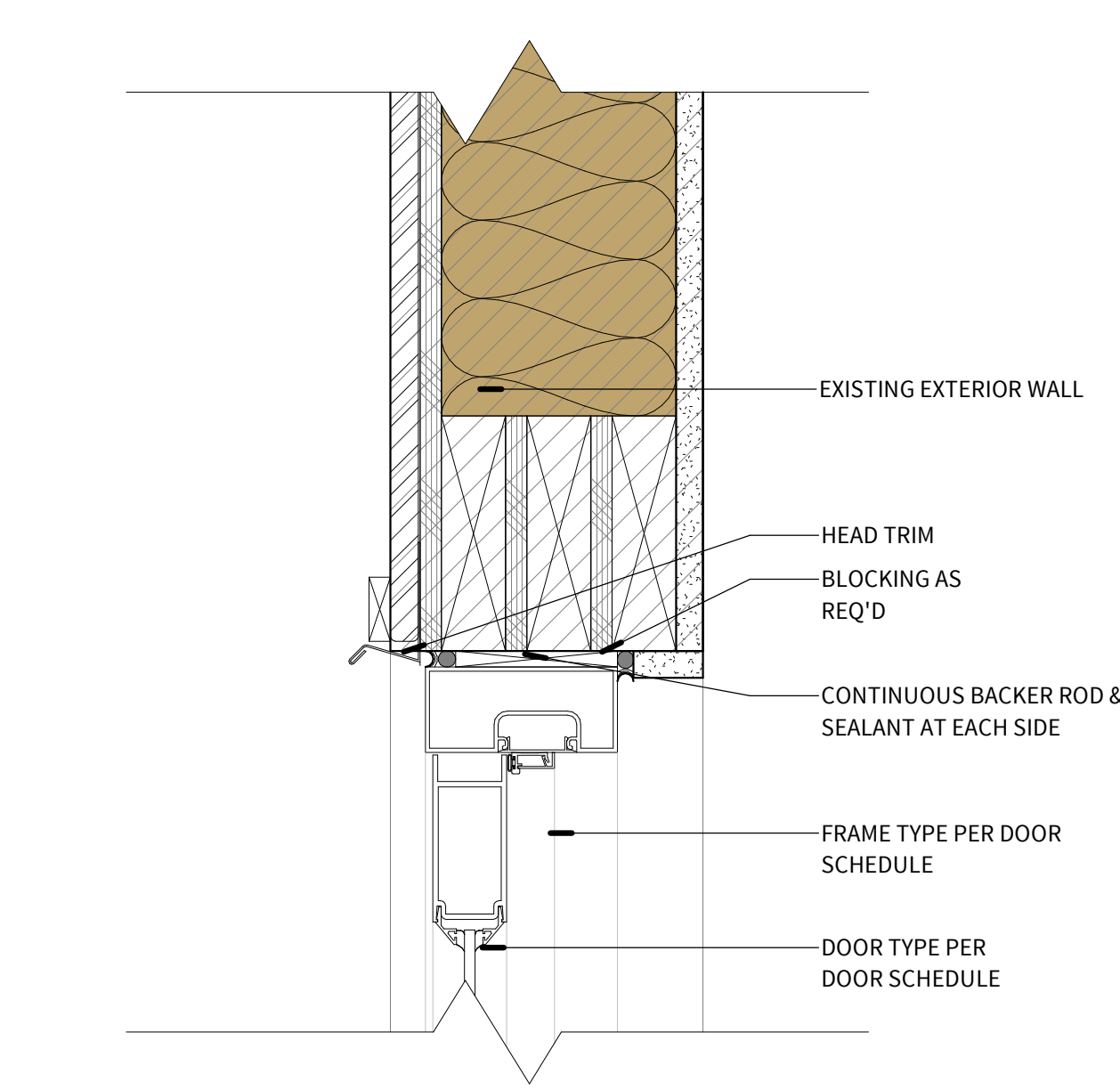
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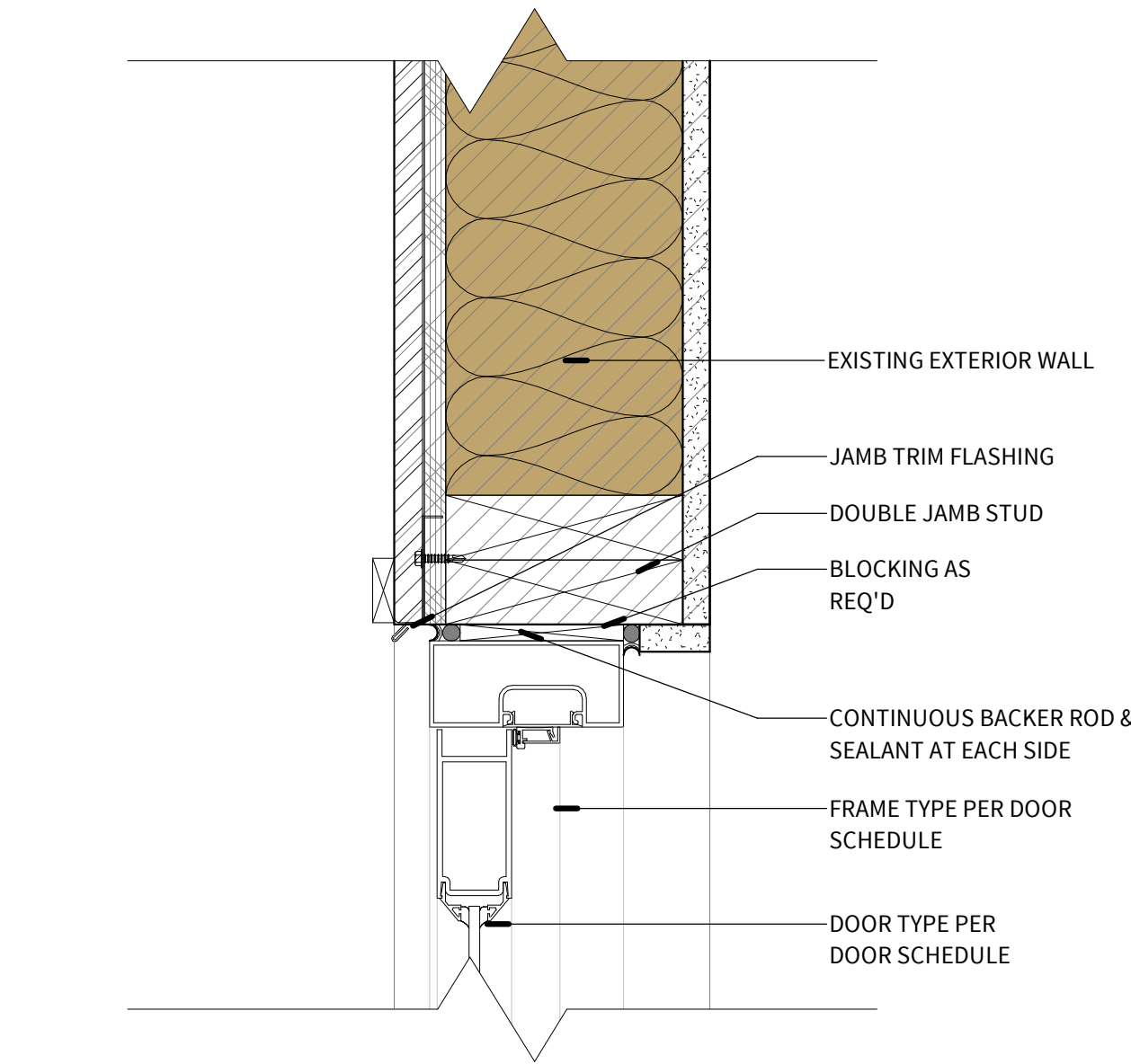
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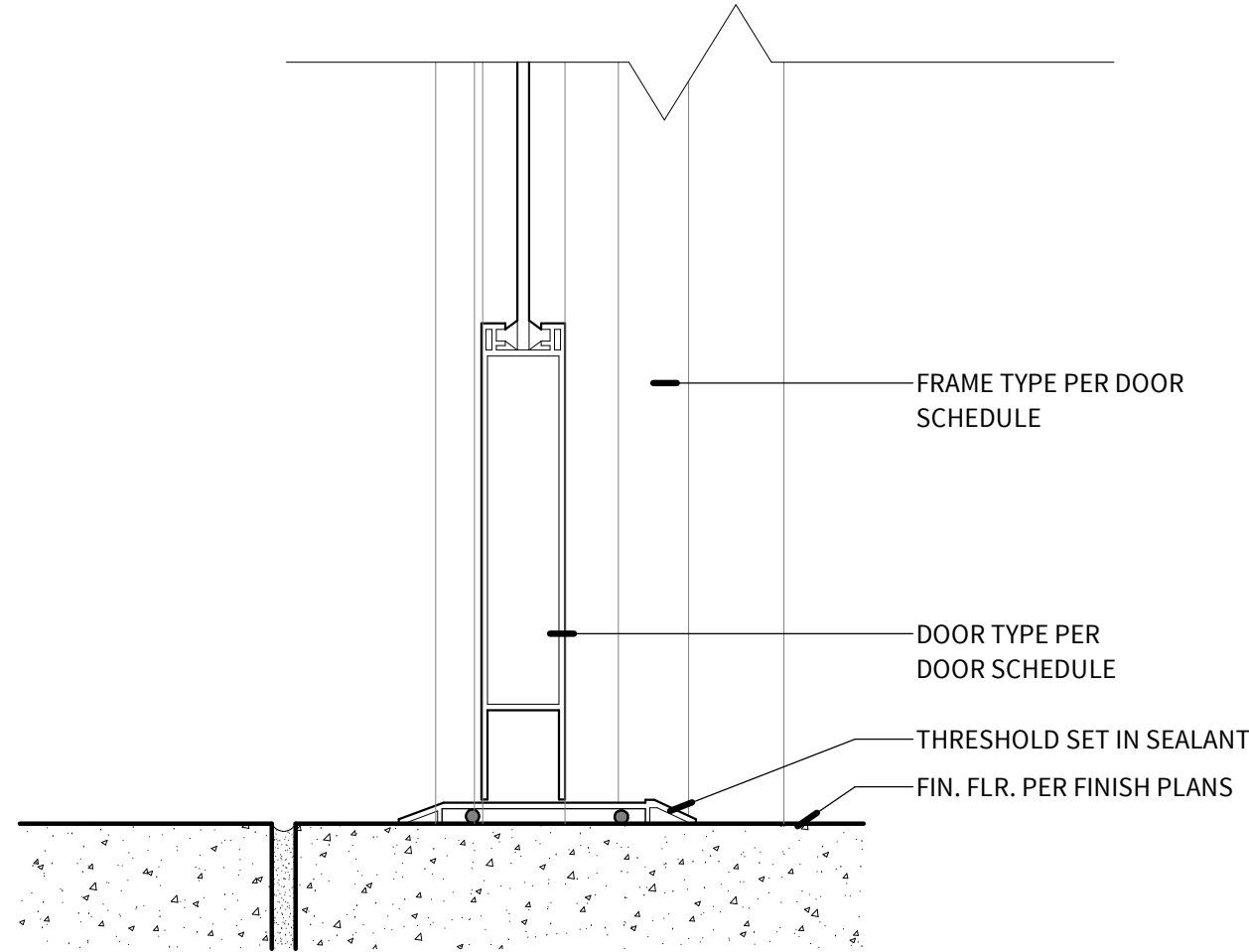




③ **ALUMINUM DOOR HEAD**  
SCALE: 3" = 1'-0"



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



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

LEVEL  
5

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HEAD, JAMB & SILL DETAILS

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A303

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EXTERIOR FINISH LEGEND

MATERIAL	VENDOR	COLLECTION	COLOR/FINISH	SIZE	GROUT	NOTES
COMPOSITION ROOF						
C-101	EXISTING		PAINT SELECTED BY OWNER			PAINT EXISTING ROOF
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



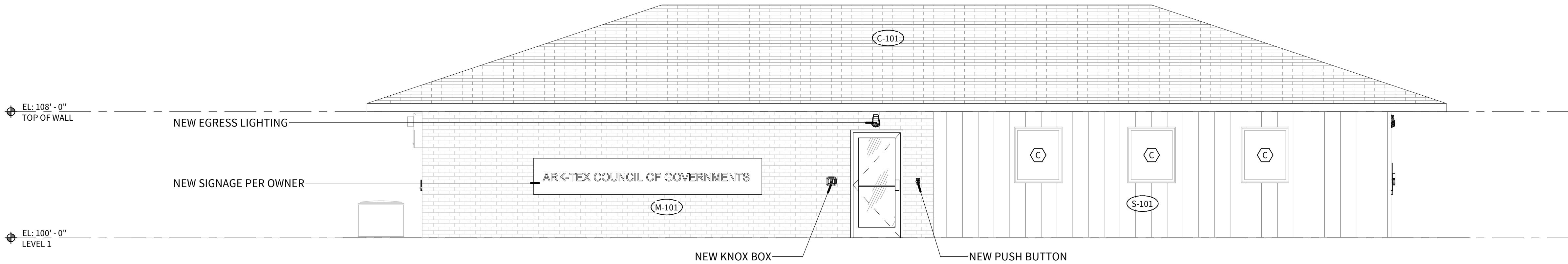
④ SOUTH ELEVATION

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



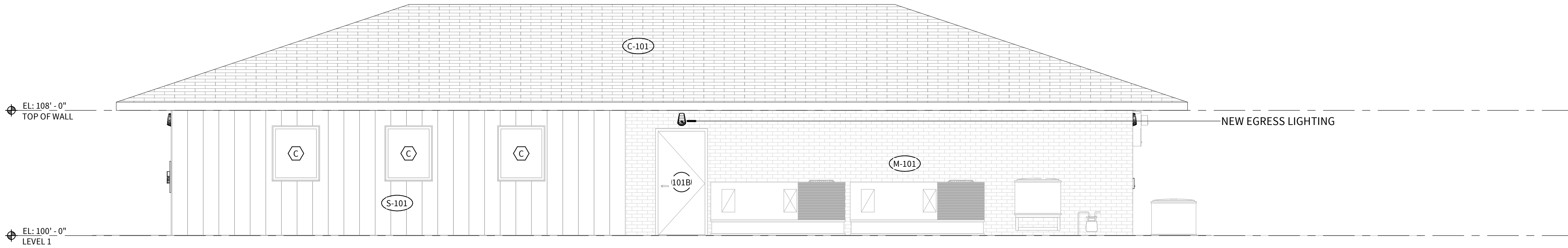
③ NORTH ELEVATION

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



② EAST ELEVATION

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

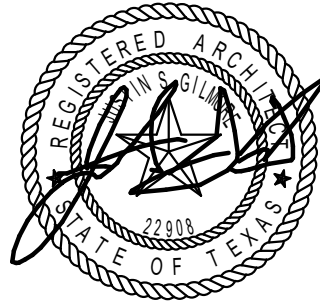


① WEST ELEVATION

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



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SHEET NAME:

EXTERIOR  
ELEVATIONS

SHEET NUMBER:

A401

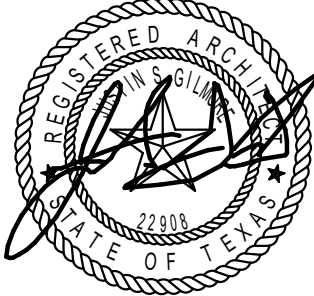
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LEVEL 5

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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:  
PARTITION TYPES

SHEET NUMBER:  
A402

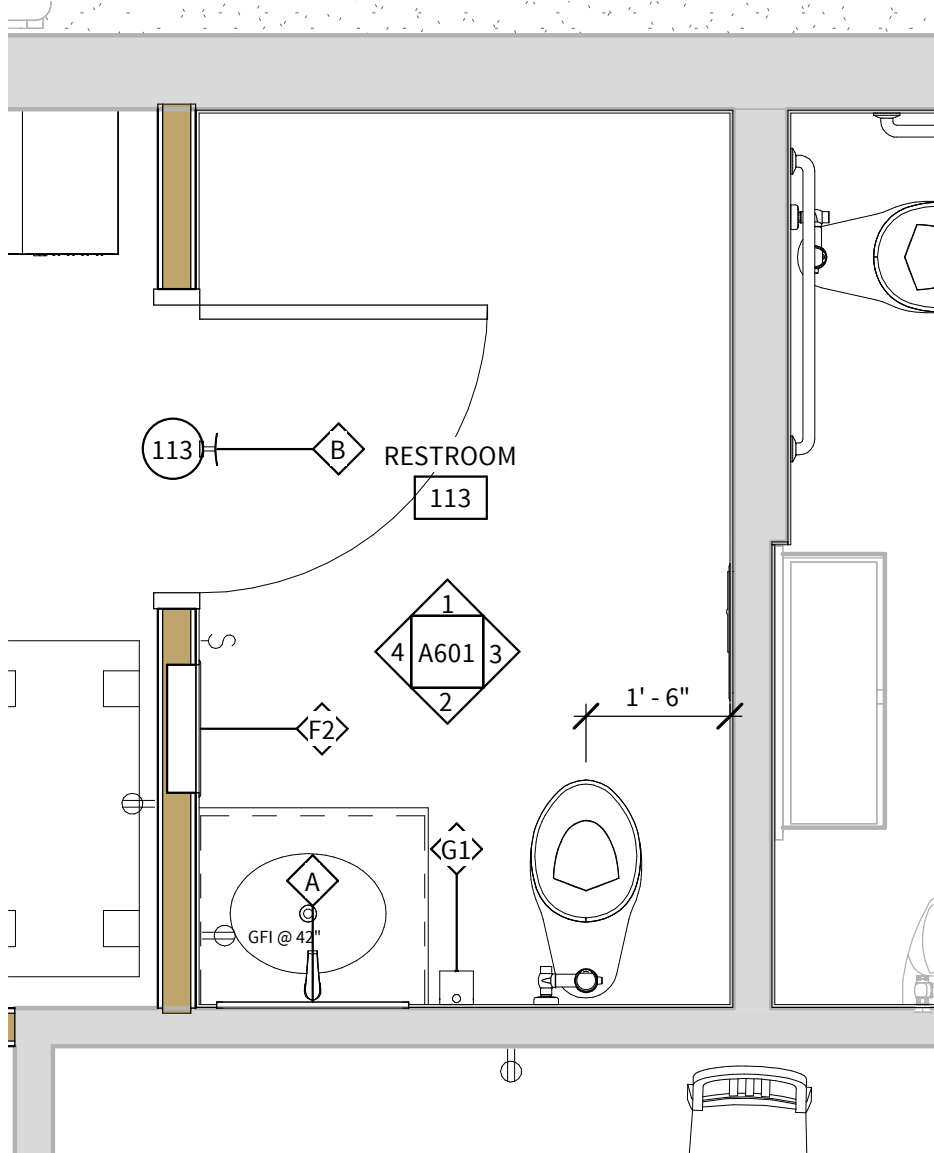
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②

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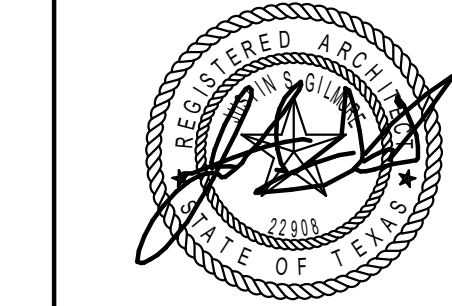
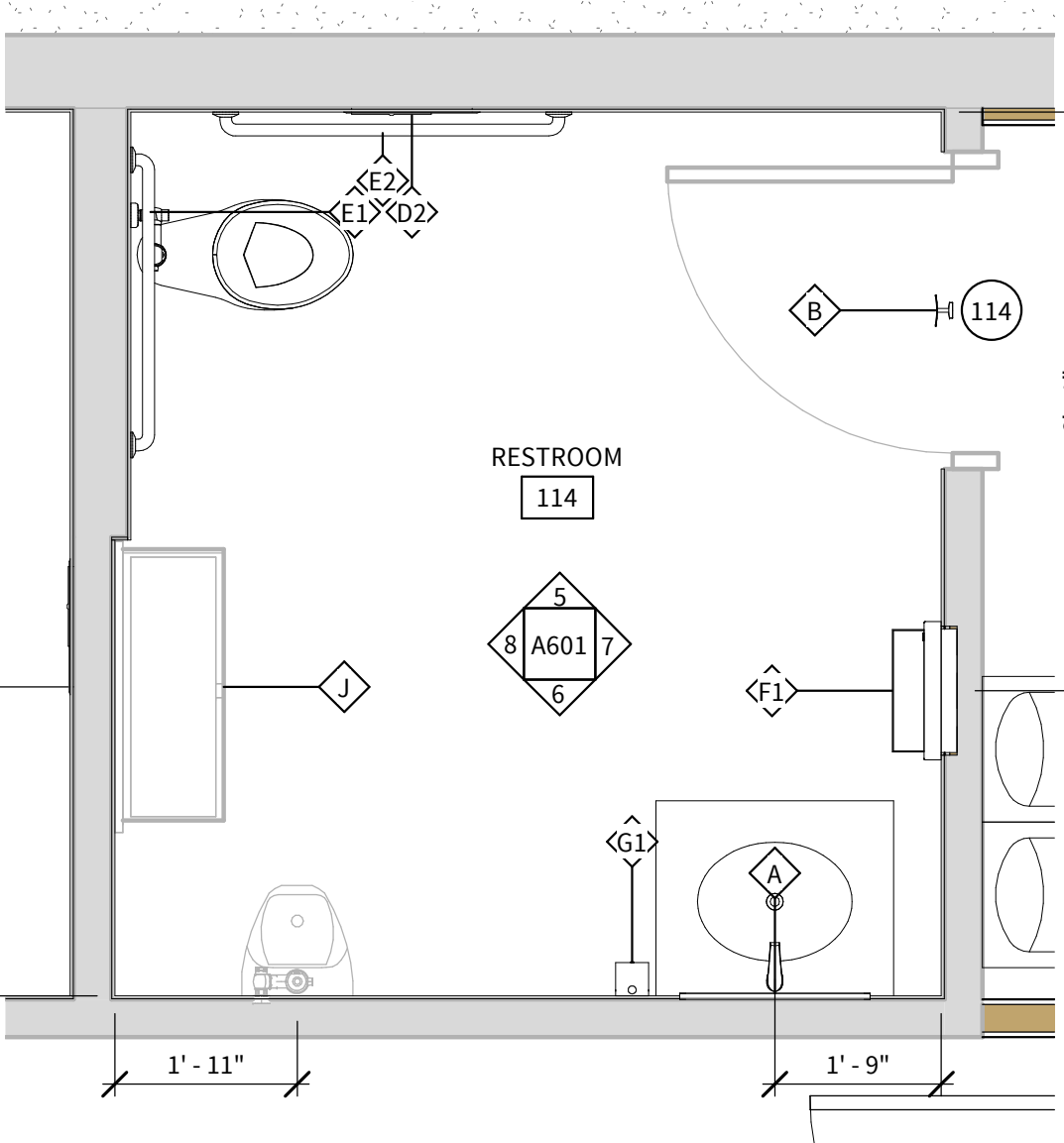
SCALE: 1/2" = 1'-0"



①

**ENLARGED PLAN - 114 - RESTROOM**

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



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:

**ENLARGED PLANS**

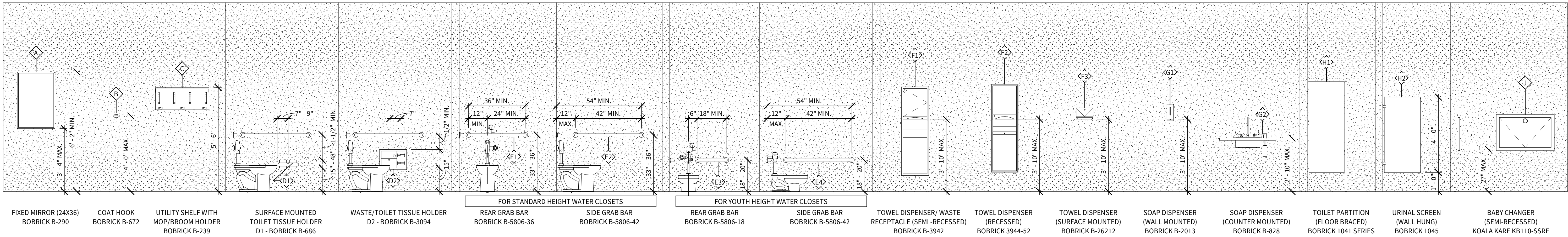
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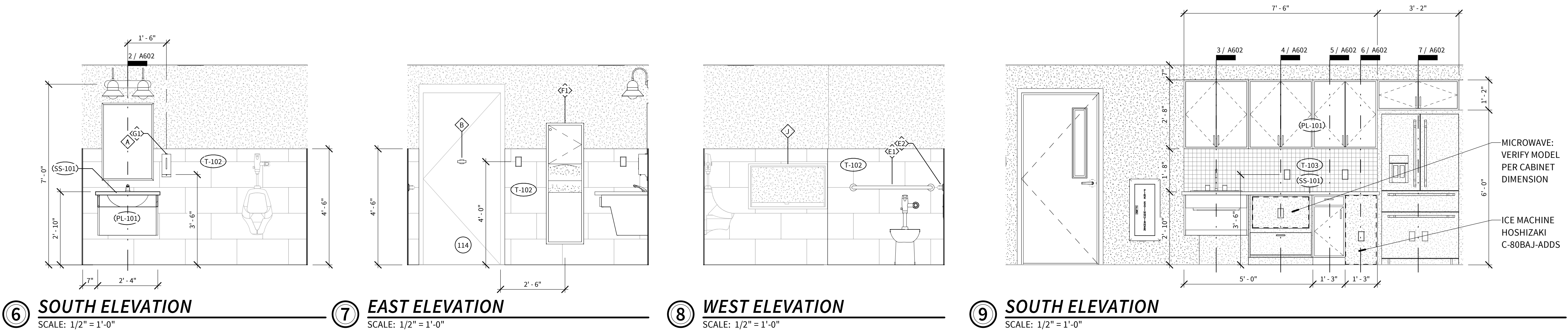
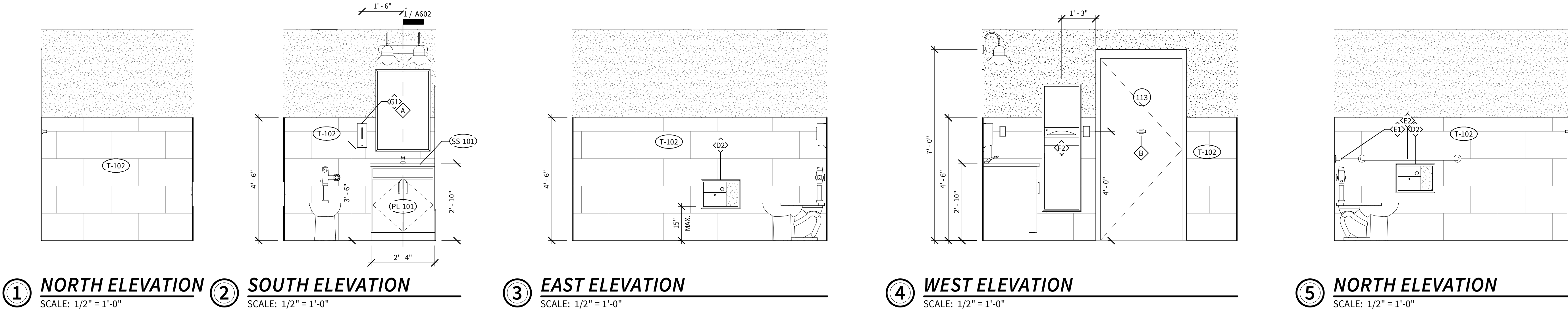
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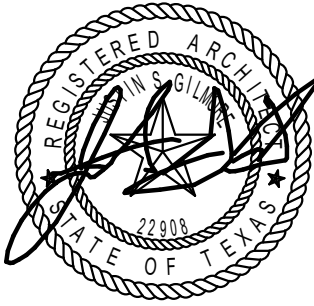


TOILET ACCESSORY LEGEND

SCALE: 3/8" = 1'-0"



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1610 CLARKSVILLE  
ST. PARIS, TEXAS  
75460

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

SHEET NAME:

INTERIOR  
ELEVATIONS

SHEET NUMBER:

A601

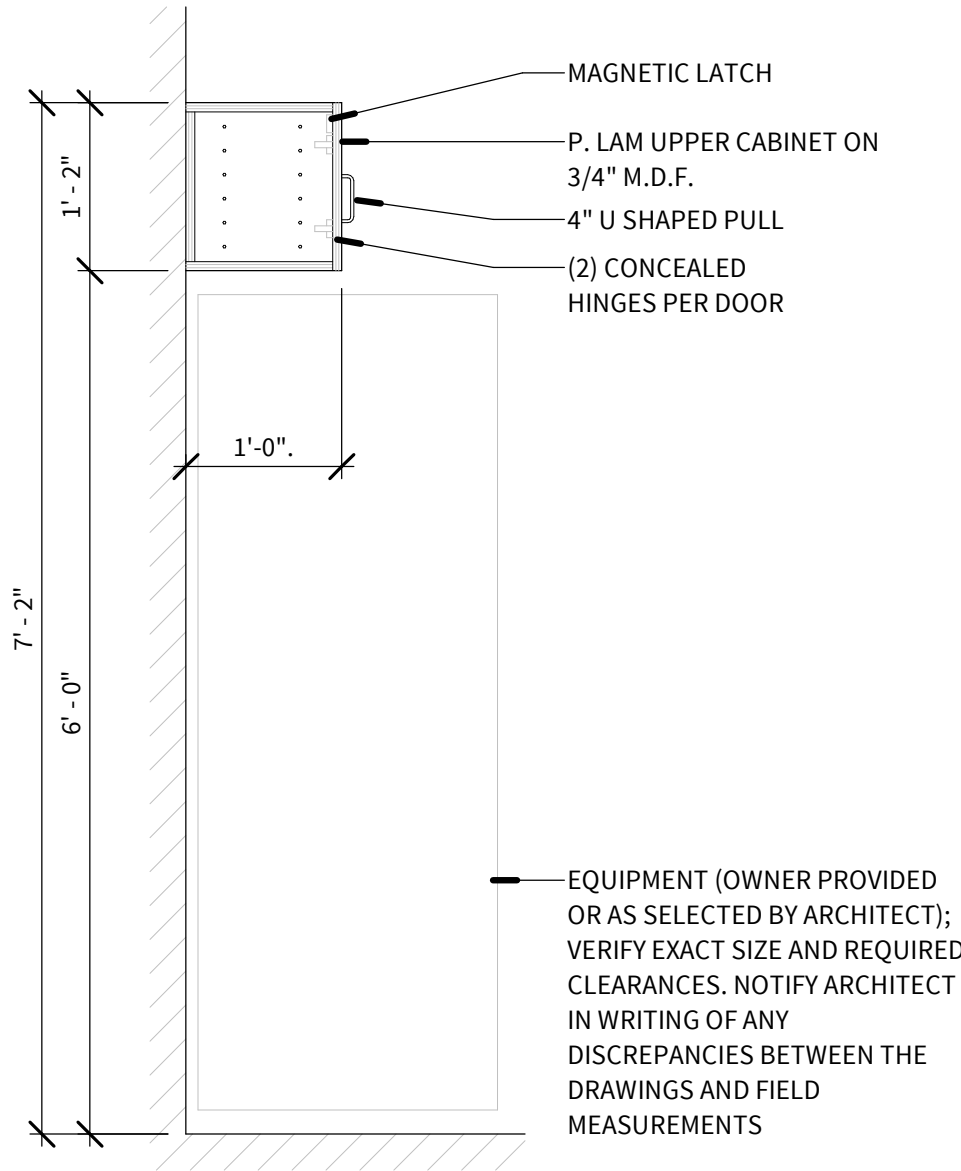
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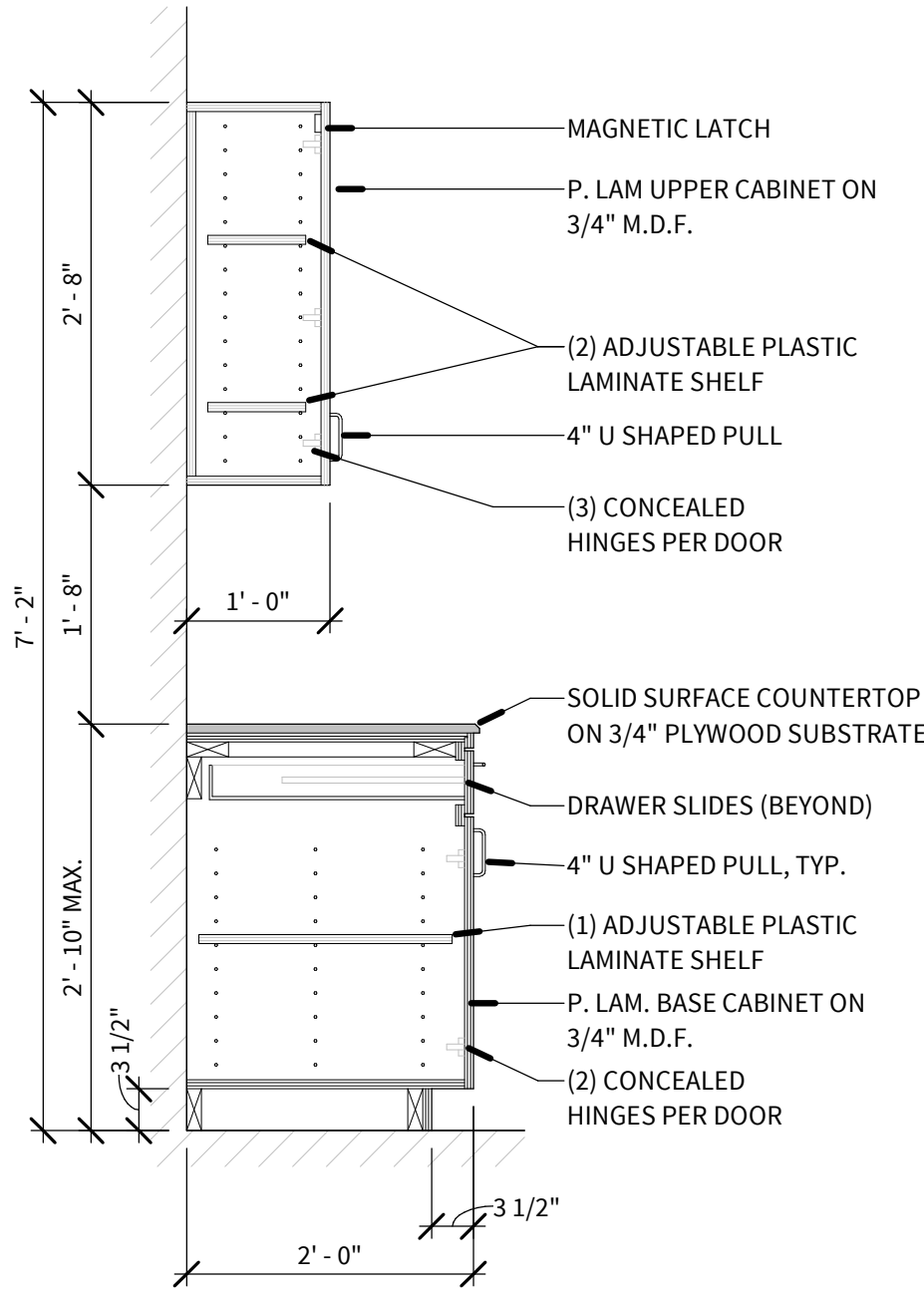


MILLWORK NOTES

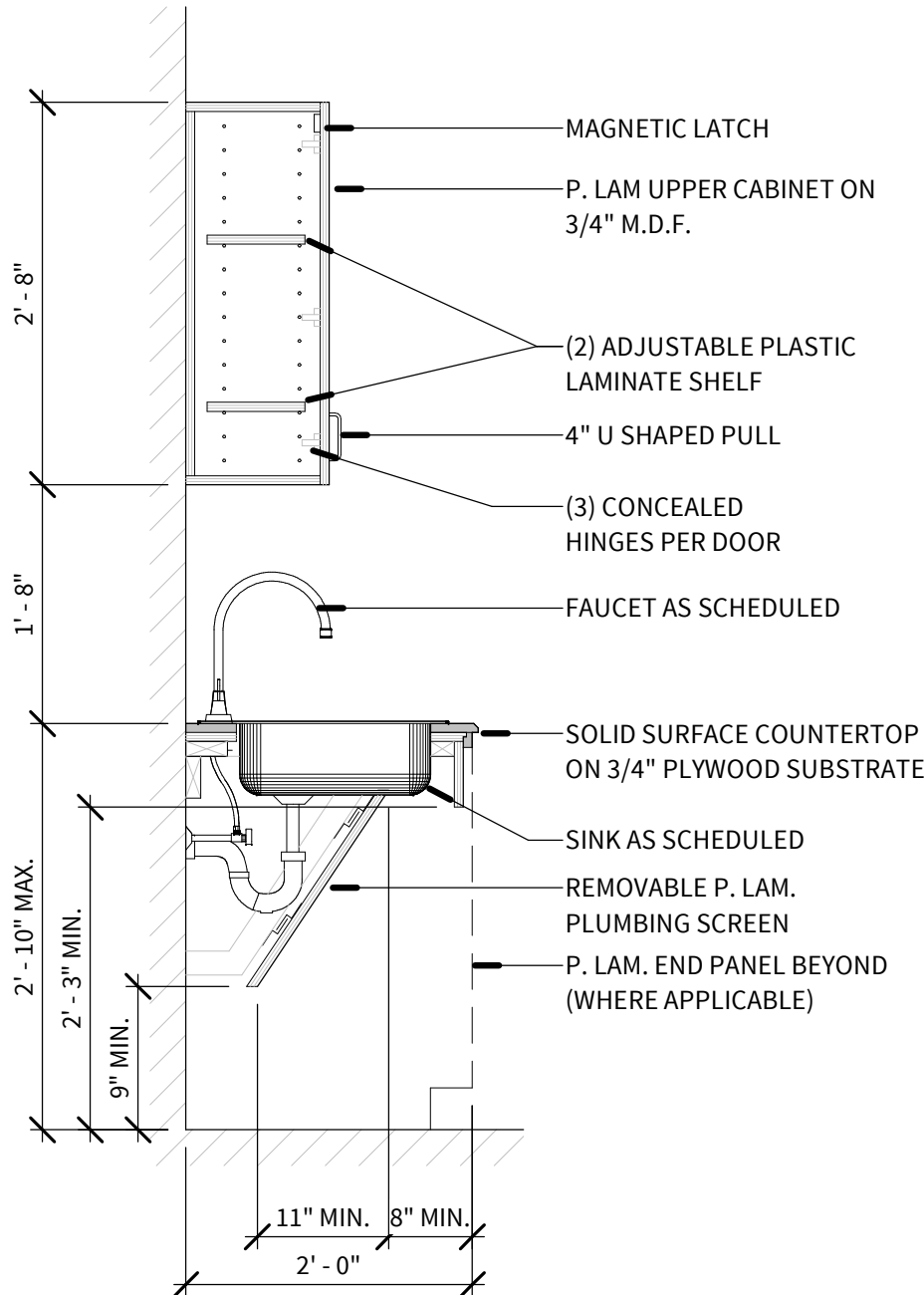
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2. ALL SOLID SURFACE TO BE SS-101 UNLESS NOTED OTHERWISE.



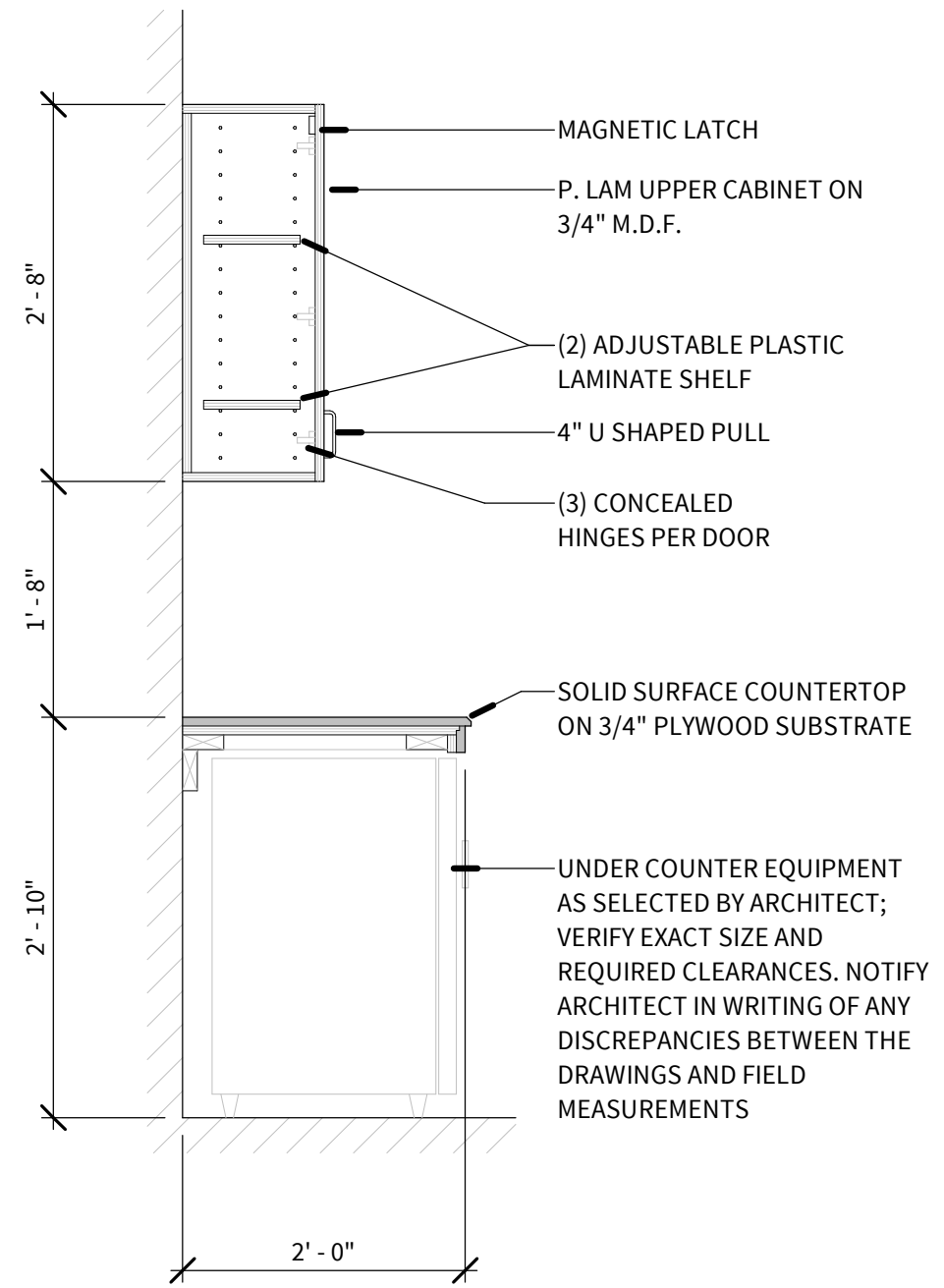
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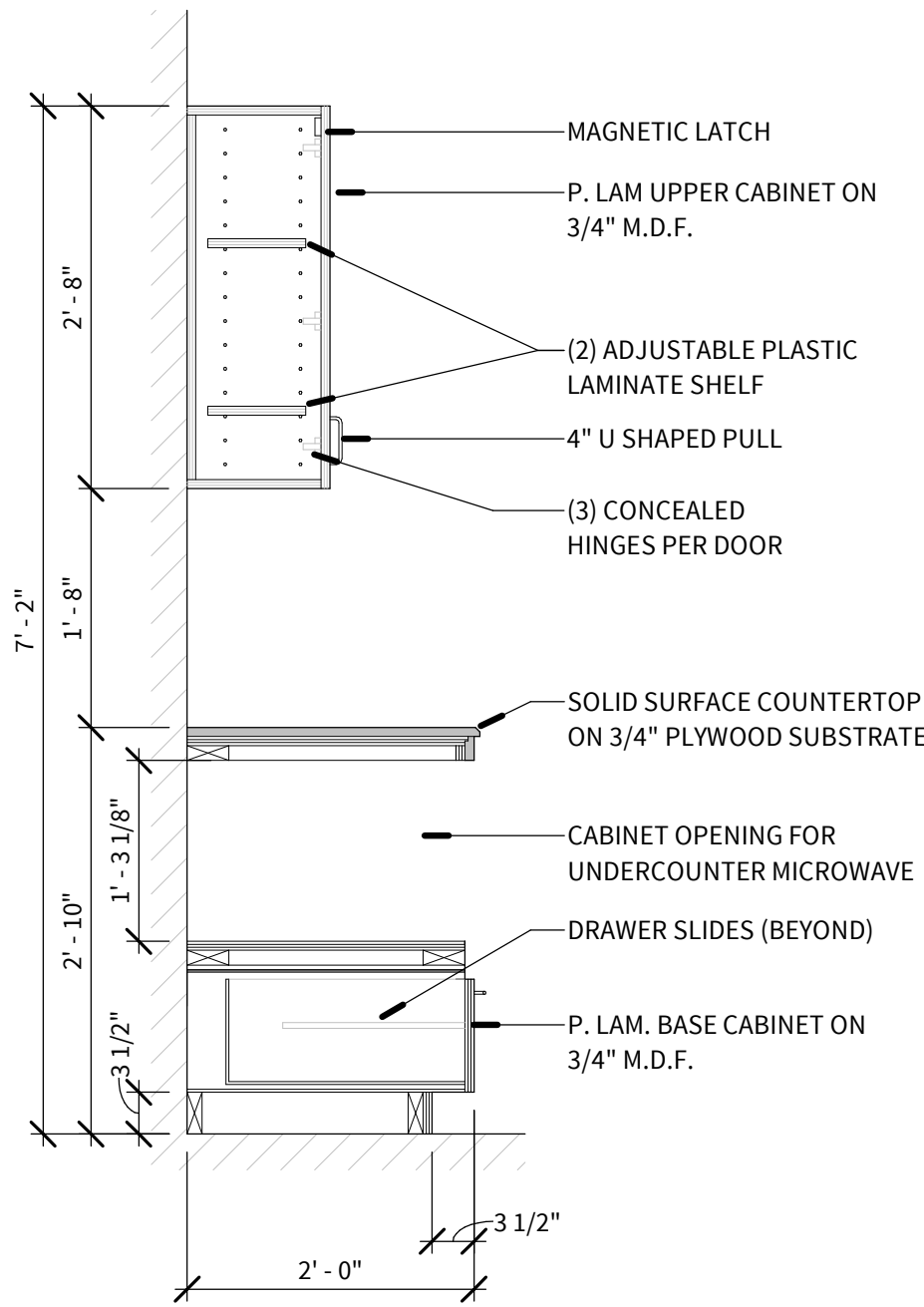
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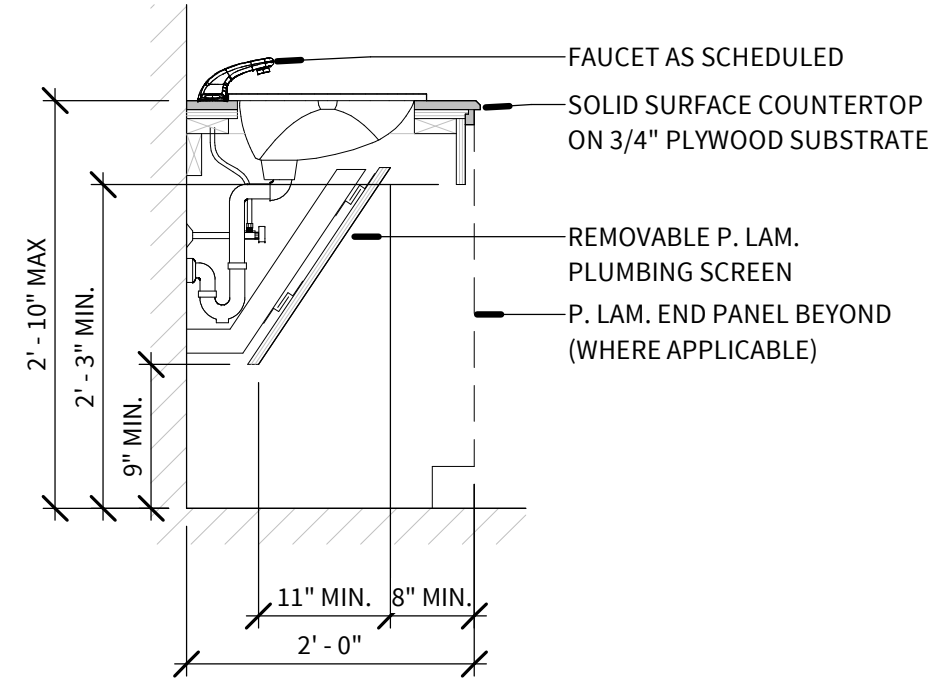
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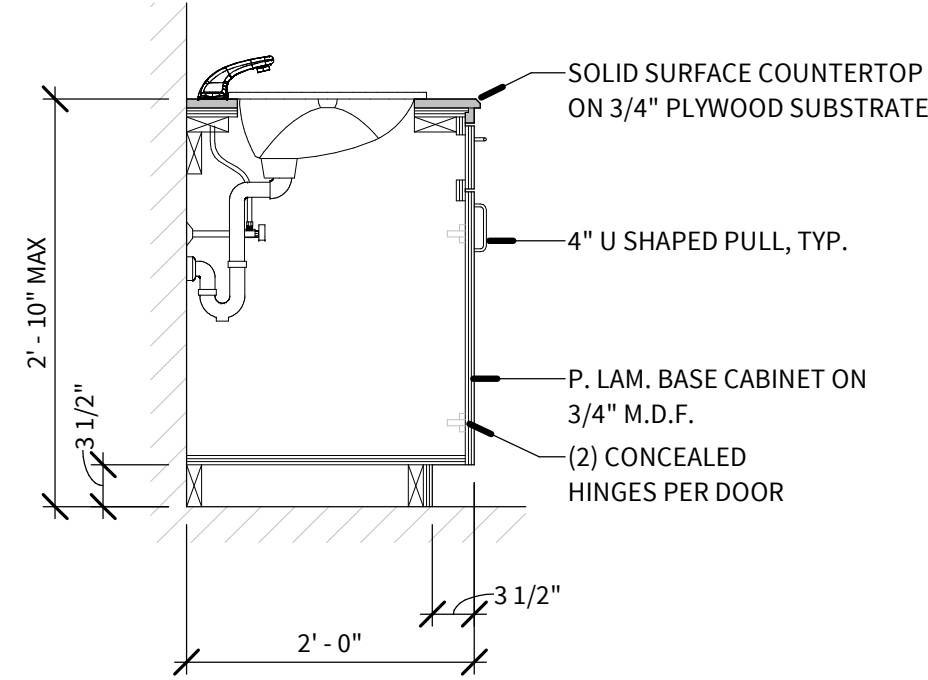
6 MILLWORK SECTION  
SCALE: 3/4" = 1'-0"



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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ARK-TEX COUNCIL OF  
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OFFICE  
RENOVATION

1610 CLARKSVILLE  
ST. PARIS, TEXAS  
75460

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

REVISIONS:

SHEET NAME:

MILLWORK SECTIONS

SHEET NUMBER:

A602

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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

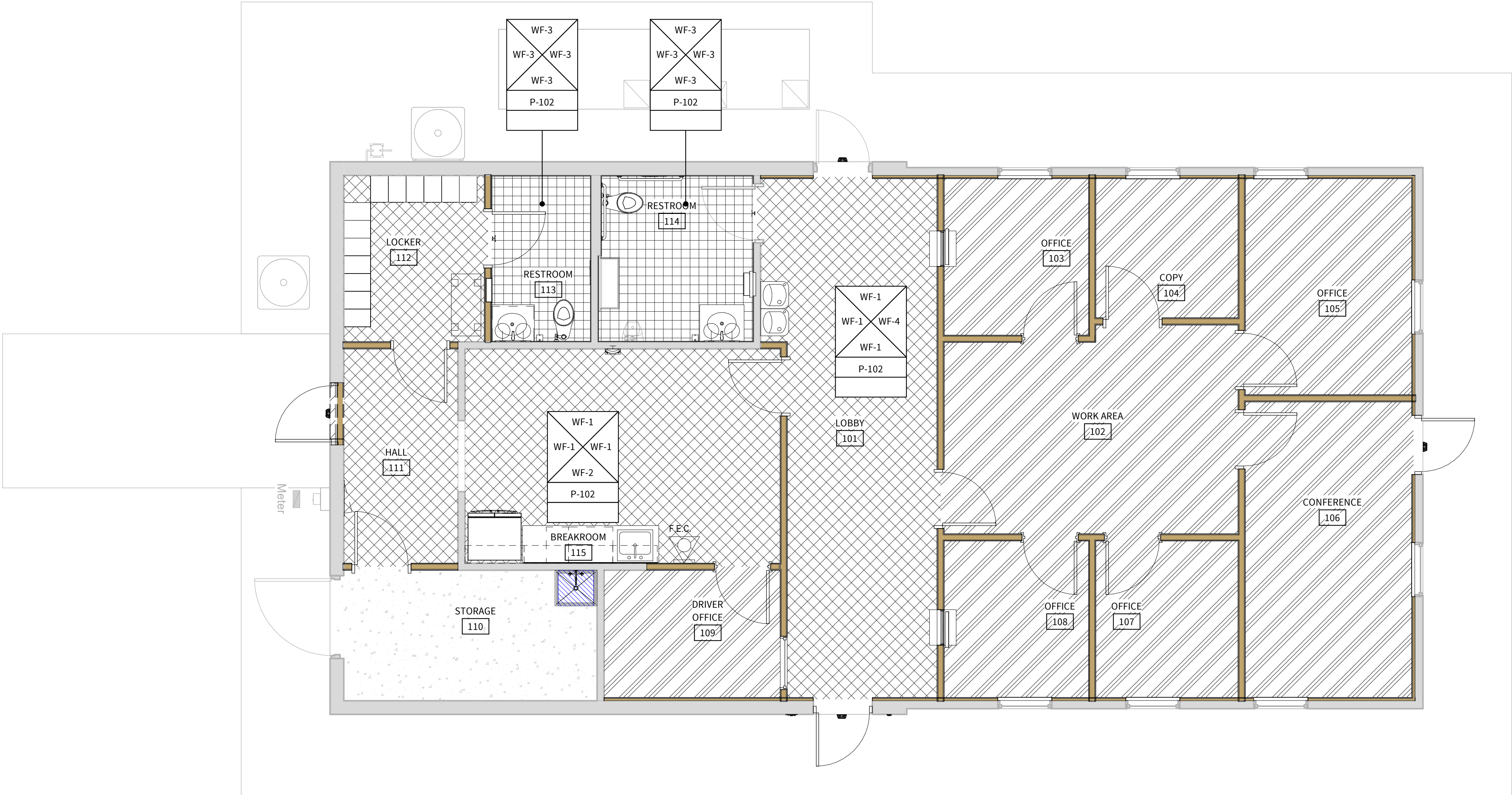
WEST

EAST

SOUTH

CEILING

REMARK: A



LEVEL 5

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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:

FINISH FLOOR PLAN

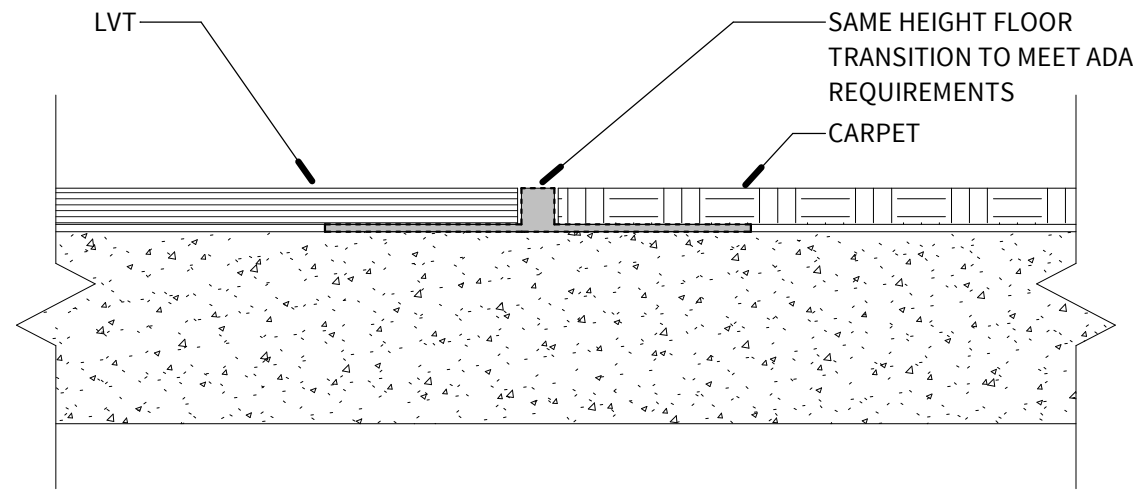
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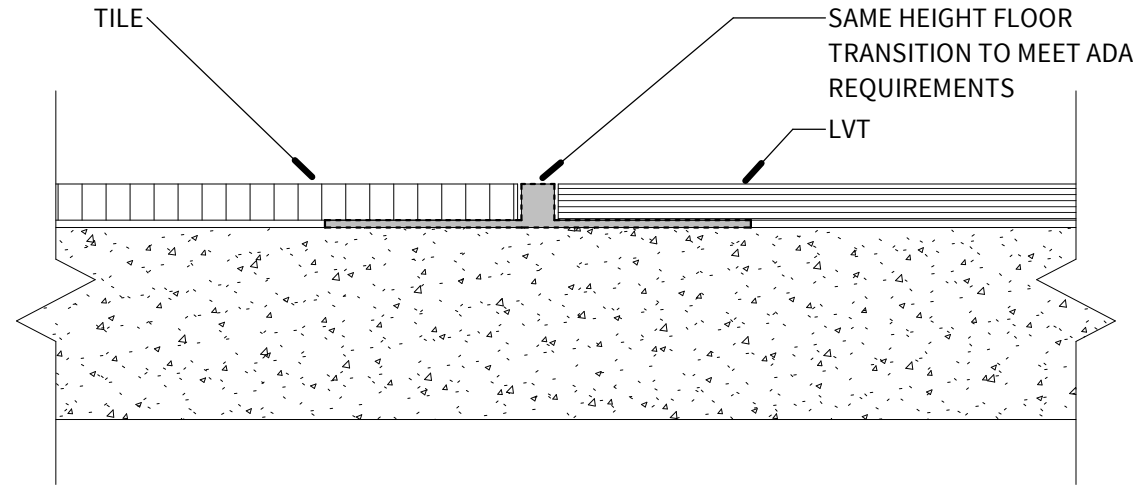
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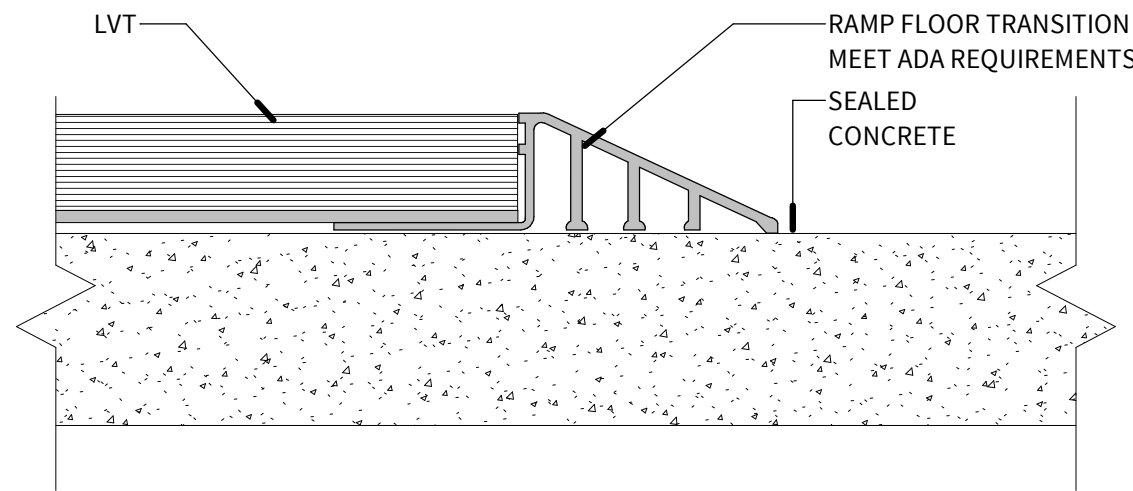
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SCALE: 12" = 1'-0"



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



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



FINISH MATERIALS

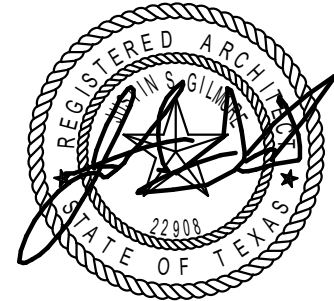
MARK	VENDOR	COLLECTION	COLOR/FINISH	SIZE	GROUT	REMARKS
CAP						
CP-101	SCHLUTER SYSTEMS	JOLLY	SATIN/MAT	A100AE		
CARPET TILE						
CPT-101	PATCRAFT	MIXED MATERIALS CONVERGE	CLOVE (00180)	24" x 24"		QUARTER TURN
CONCRETE (SEALED)						
CS-101	SHERWIN WILLIAMS					STRIP AND SEAL WAREHOUSE
DOOR FINISH						
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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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:

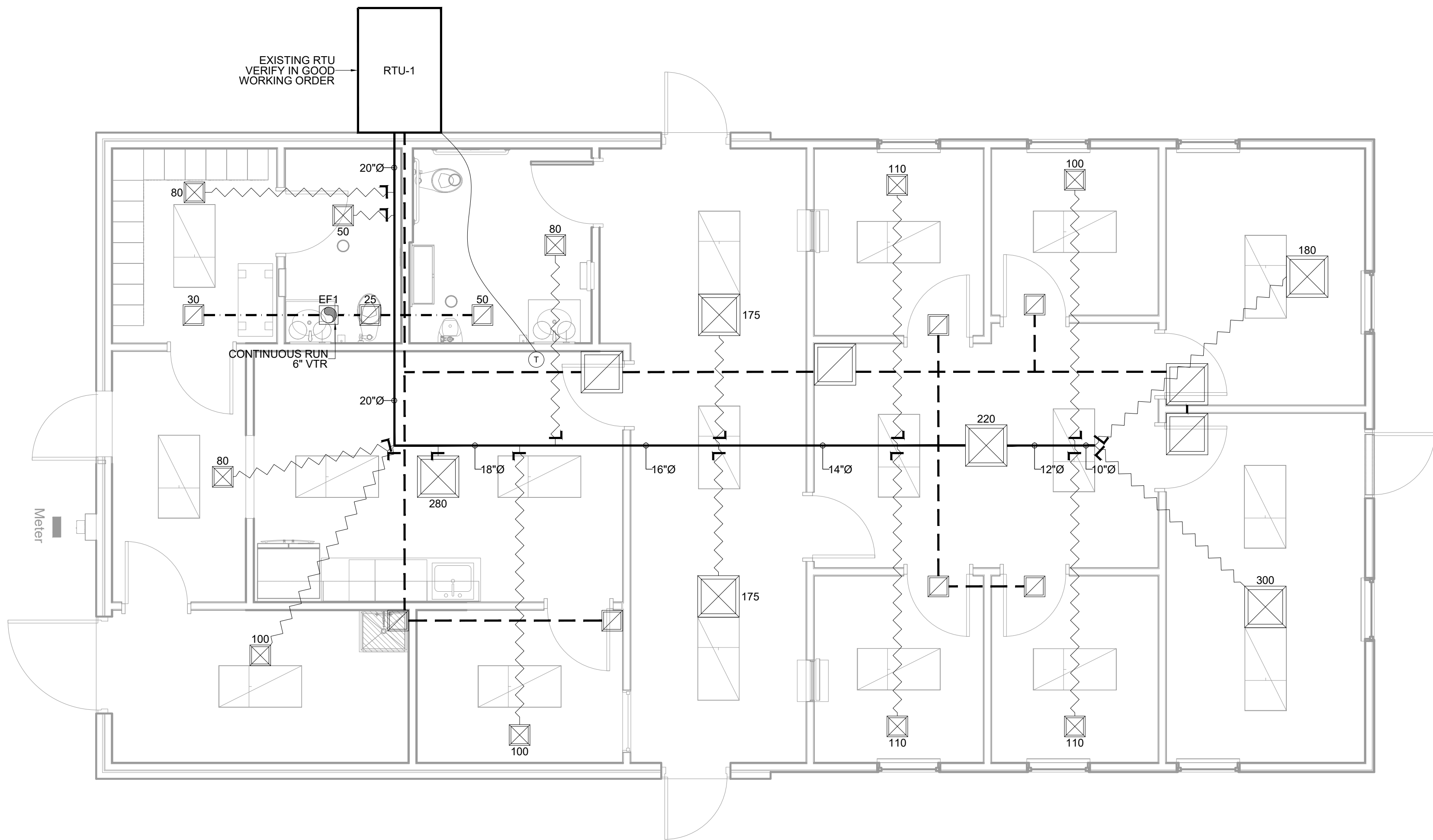
FINISH SCHEDULE

SHEET NUMBER:

Q301

5/31/2022 12:35:39 PM





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).

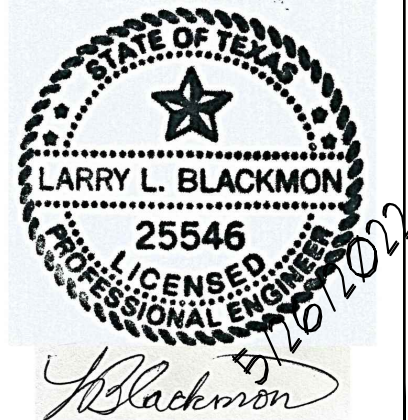
4. UNIT HEATERS, GAS FIRED (OR AS OTHERWISE SPECIFIED).  
5. EXHAUST FANS, INTAKE LOUVERS.  
6. INSULATION, PIPE AND DUCT.  
7. ENVIRONMENTAL CONTROL PANELS, ALL SYSTEMS SENSORS AND RELATED THERMOSTATS.  
8. TESTING AND BALANCING.  
9. PROVIDE ALL TEMPORARY HOOK UP REQUIRED TO TEST OUT EQUIPMENT.  
-PROTECTION-  
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 BTH/h.  
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 BTH/h.  
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.

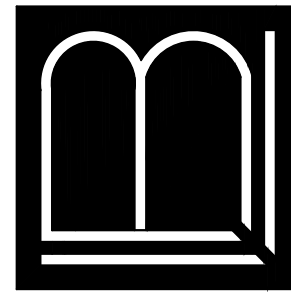
NOTE TO BIDDERS

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MECHANICAL  
PLAN

SHEET:

M1

DATE:

5/26/2022

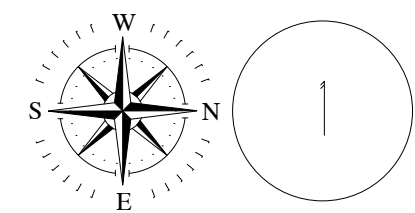
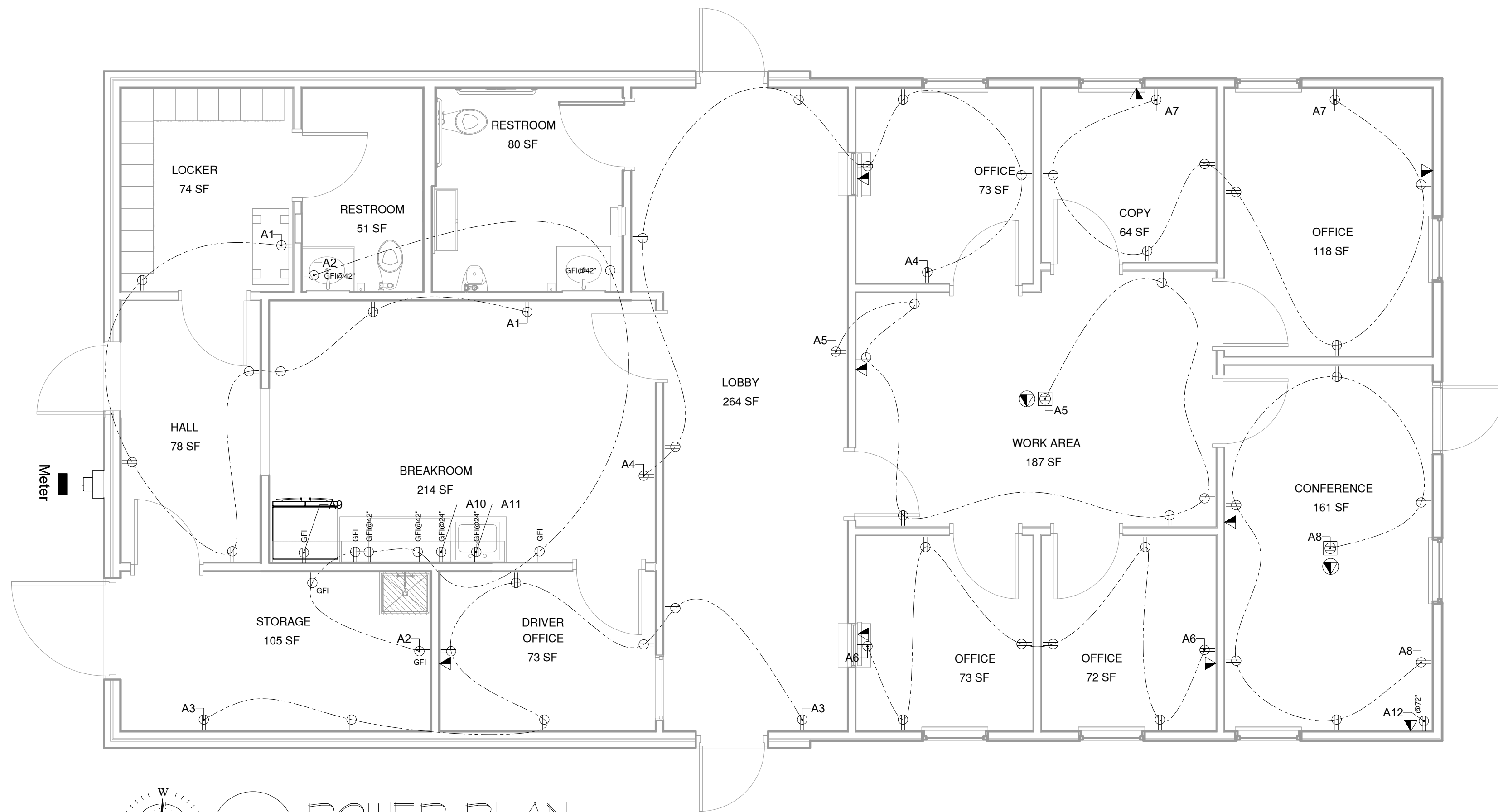
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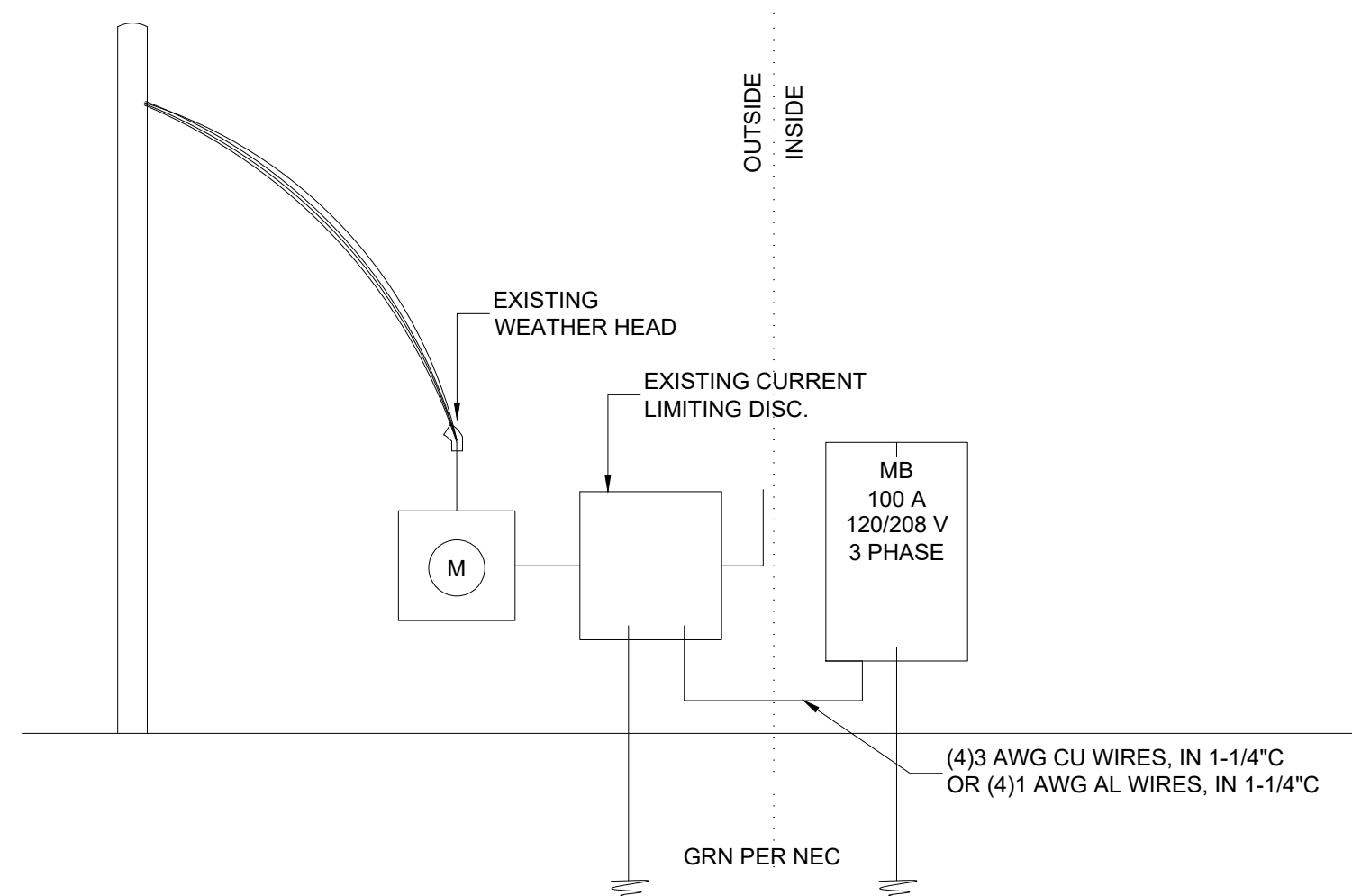
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## POWER PLAN

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



## ELECTRICAL RISER

SCALE: NTS

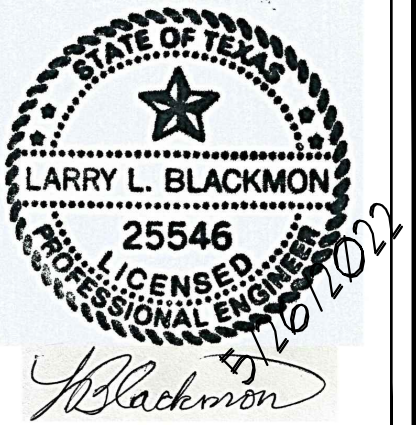
ELECTRICAL SYMBOL LEGEND	
	120V DUPLEX OUTLET
	GROUND FAULT INTERRUPTER 120V DUPLEX OUTLET
	WEATHERPROOF GROUND FAULT INTERRUPTER 120V DUPLEX OUTLET
	FLOOR MOUNTED 120V DUPLEX OUTLET WITH COVER
	DISCONNECT
	COMBINATION DATA/ TELEPHONE OUTLET
	FLOOR MOUNTED COMBINATION DATA/ TELEPHONE OUTLET WITH COVER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

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	RATING	
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
			LIGHTS	808	-0-	-0-	1.25		1011	-0-	-0-
			OUTLETS	5760	2880	2880	1.00		5760	2880	2880
			APPLIANCES	-0-	2000	2000	1.00		-0-	2000	2200
			HVAC	4380	4380	4380	1.00		4380	4380	4380
PANEL LOAD									11151	9260	9460
TOTAL LOAD				29 871/360 = 83 AMPS							

PROVIDE NEW ELECTRICAL PANEL.

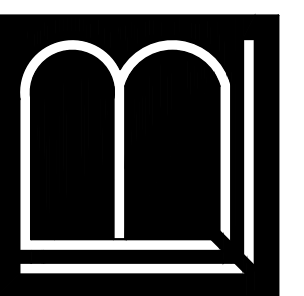
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### ELECTRICAL PLAN

SHEET:

E1

DATE:

5/26/2022

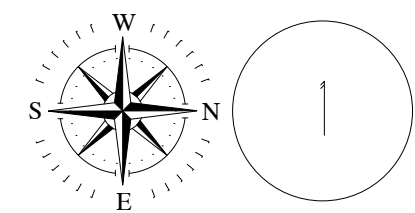
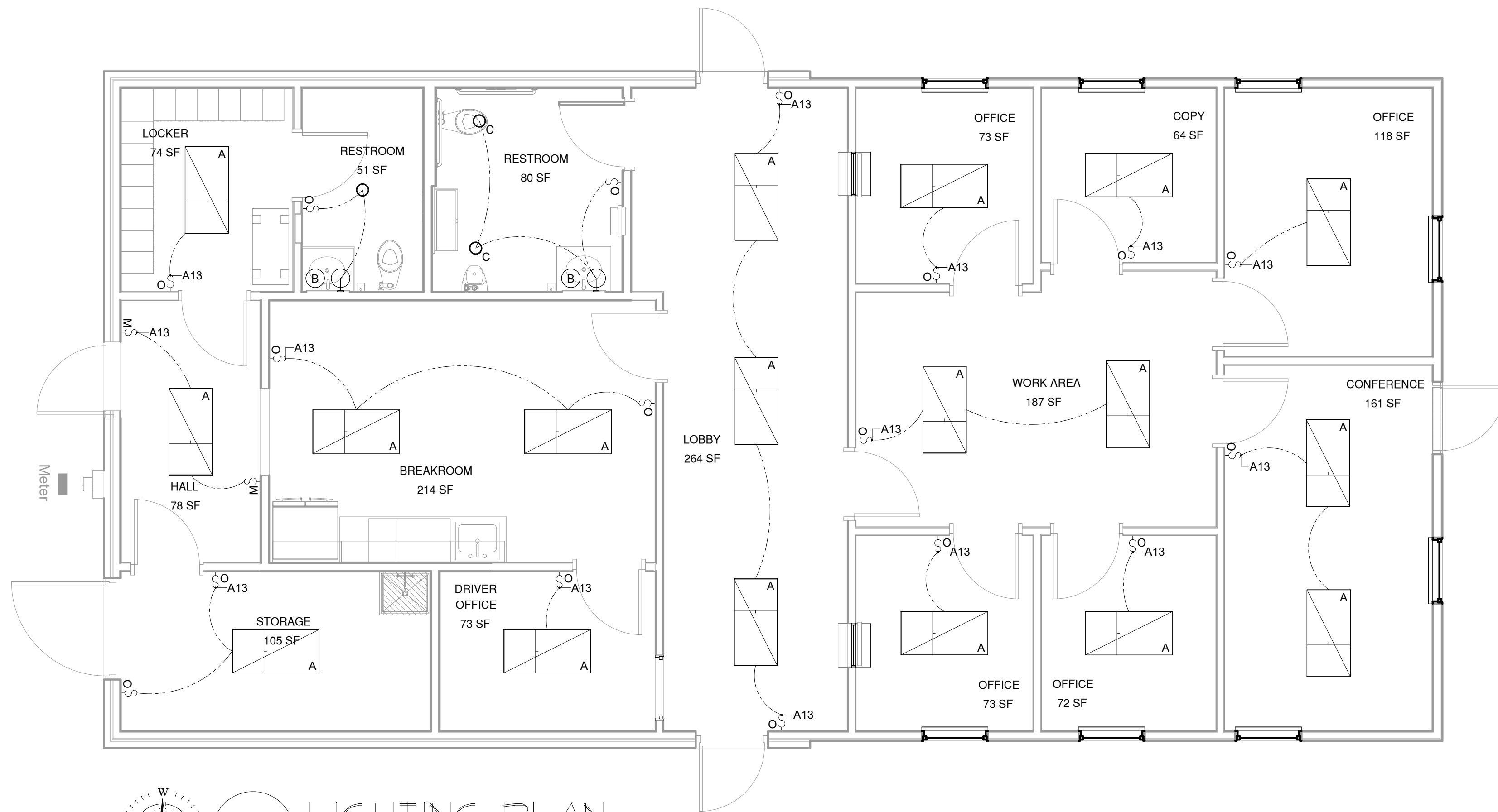
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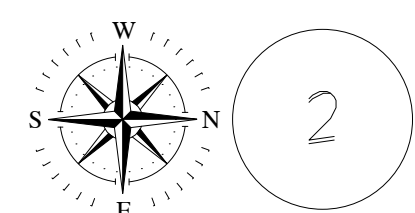
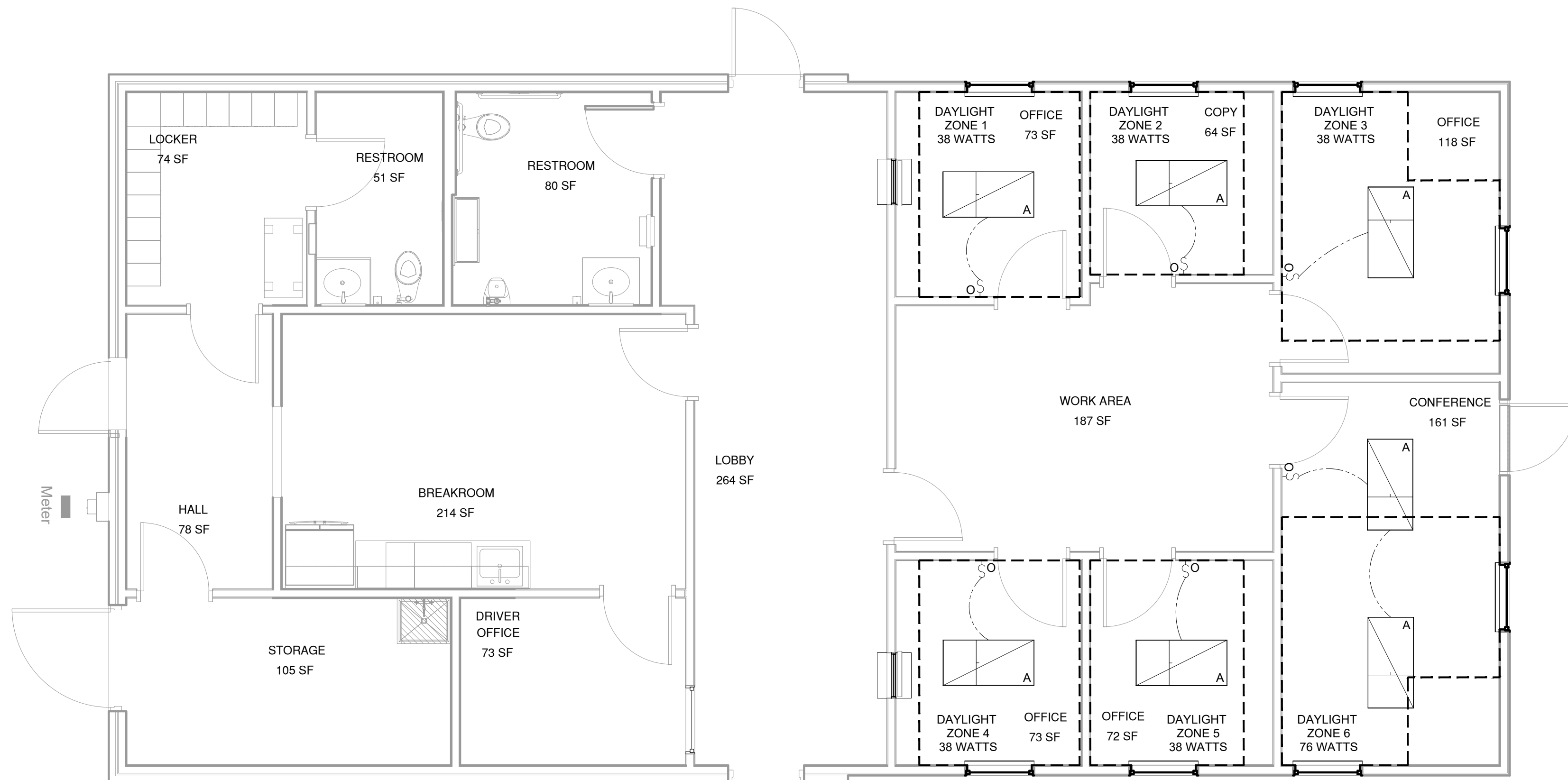
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## 1 LIGHTING PLAN

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



## 2 DAYLIGHTING PLAN

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

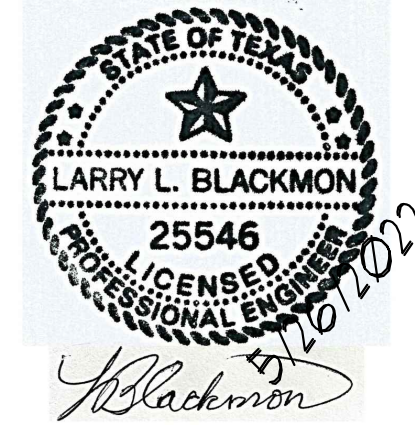
### DAYLIGHT NOTES:

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

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

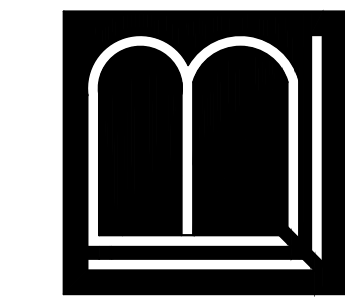
LIGHTING NOTES:  
1. MOUNT ALL SWITCHES @ 48" A.F.F. UNLESS NOTED  
2. ALL EXTERIOR BUILDING MOUNTED LIGHTING TO BE PROVIDED WITH CONTROLS THAT AUTOMATICALLY SHUT OFF LIGHTING AS A FUNCTION OF DAWN/DUSK AND A SET OPENING AND CLOSING TIME.

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ELECTRICAL  
PLAN

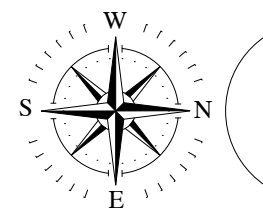
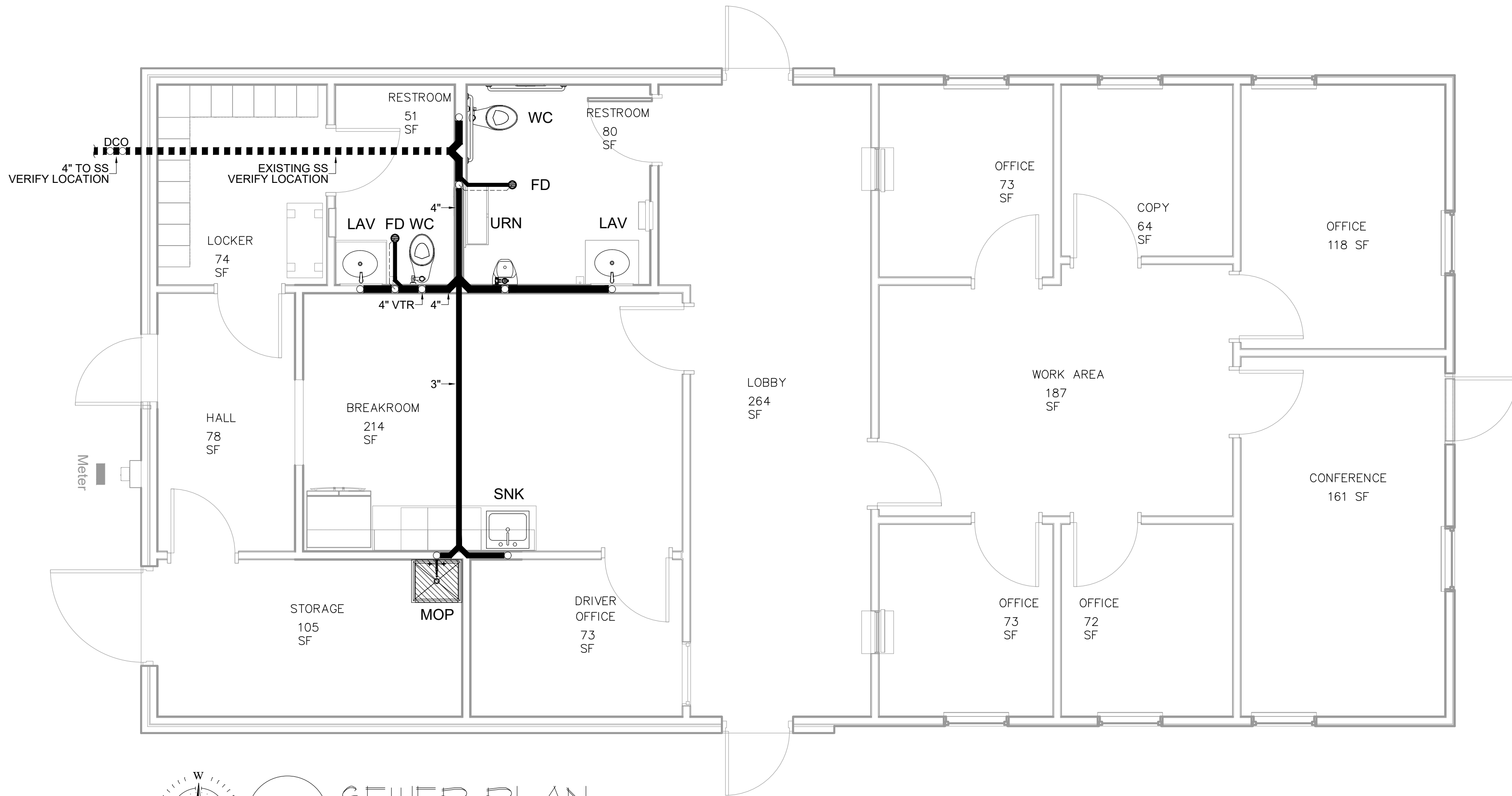
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DATE:  
5/26/2022

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DESIGN BY:  
LLB

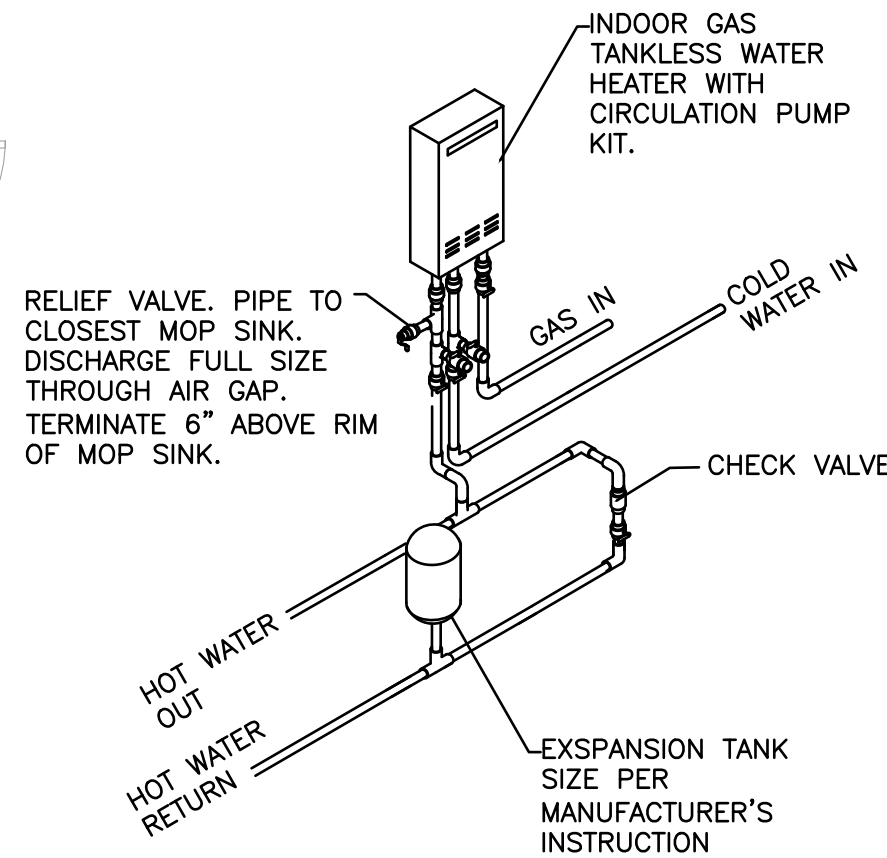




## SEWER PLAN

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.

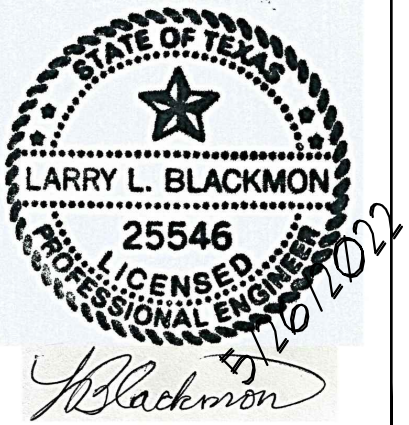
PLUMBING CONTRACTOR TO PROVIDE AND HOOK UP ALL CONDENSATION LINES. CONDENSATE LINES TO DISCHARGE INTO THE SANITARY SEWER.

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.

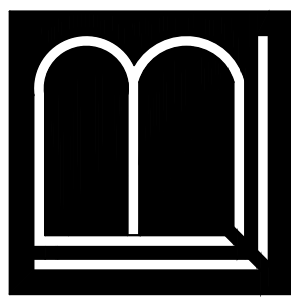
## NOTE TO BIDDERS

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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PLUMBING  
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SHEET:

P1

DATE:

5/26/2022

DRAWN BY:

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DESIGN BY:

LLB