

# SUPER KIDS DENTAL

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

ISSUE FOR PERMIT  
06/25/24

GENERAL - DRAWING INDEX	
SHEET #	SHEET NAME
00 - GENERAL	
G000	COVER PAGE & PROJECT SHEET INDEX
G002	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
G003	PROJECT INFORMATION AND CODE ANALYSIS
G004	LIFE SAFETY PLAN
G101	ACCESSIBILITY DIAGRAMS
G102	ADA INFORMATION
G201	UL NO. U465
G202	UL NO. D902
G203	UL NO. G041
G204	THROUGH-PENETRATION FIRESTOP SYSTEM
G205	THROUGH-WALL PENETRATION
G206	THROUGH-WALL PENETRATION METAL CONDUIT
01 - ARCHITECTURE	
A111	FLOOR PLAN - LEVEL 2
A111.1	RCP - LEVEL 2
A411	WALL SECTIONS
A501	ENLARGED PLANS
A601	INTERIOR ELEVATIONS
A602	INTERIOR ELEVATIONS
A611	MILLWORK DETAILS
A721	CEILING DETAILS
A751	DOOR DETAILS - INTERIOR
A761	WINDOW DETAILS - INTERIOR
A801	DOOR SCHEDULE & DOOR TYPE LEGEND
A802	WINDOW & STOREFRONT SCHEDULE
A811	WALL PARTITION SCHEDULE
02 - INTERIOR ARCHITECTURE	
IA211	FINISH FLOOR PLAN - AREA A - LEVEL 1
IA901	FINISH SCHEDULES
03 - MECHANICAL	
M101	MECHANICAL FLOOR PLAN
M201	MECHANICAL DETAILS
M301	MECHANICAL SCHEDULES
04 - ELECTRICAL	
E101	ELECTRICAL FLOOR PLANS
E102	ELECTRICAL RISER DIAGRAM
E301	ELECTRICAL SPECIFICATIONS
05 - PLUMBING	
P101	PLUMBING FLOOR PLANS
P201	PLUMBING RISER DIAGRAMS
P301	PLUMBING DETAILS
P401	PLUMBING SCHEDULES
P402	PLUMBING SPECIFICATIONS

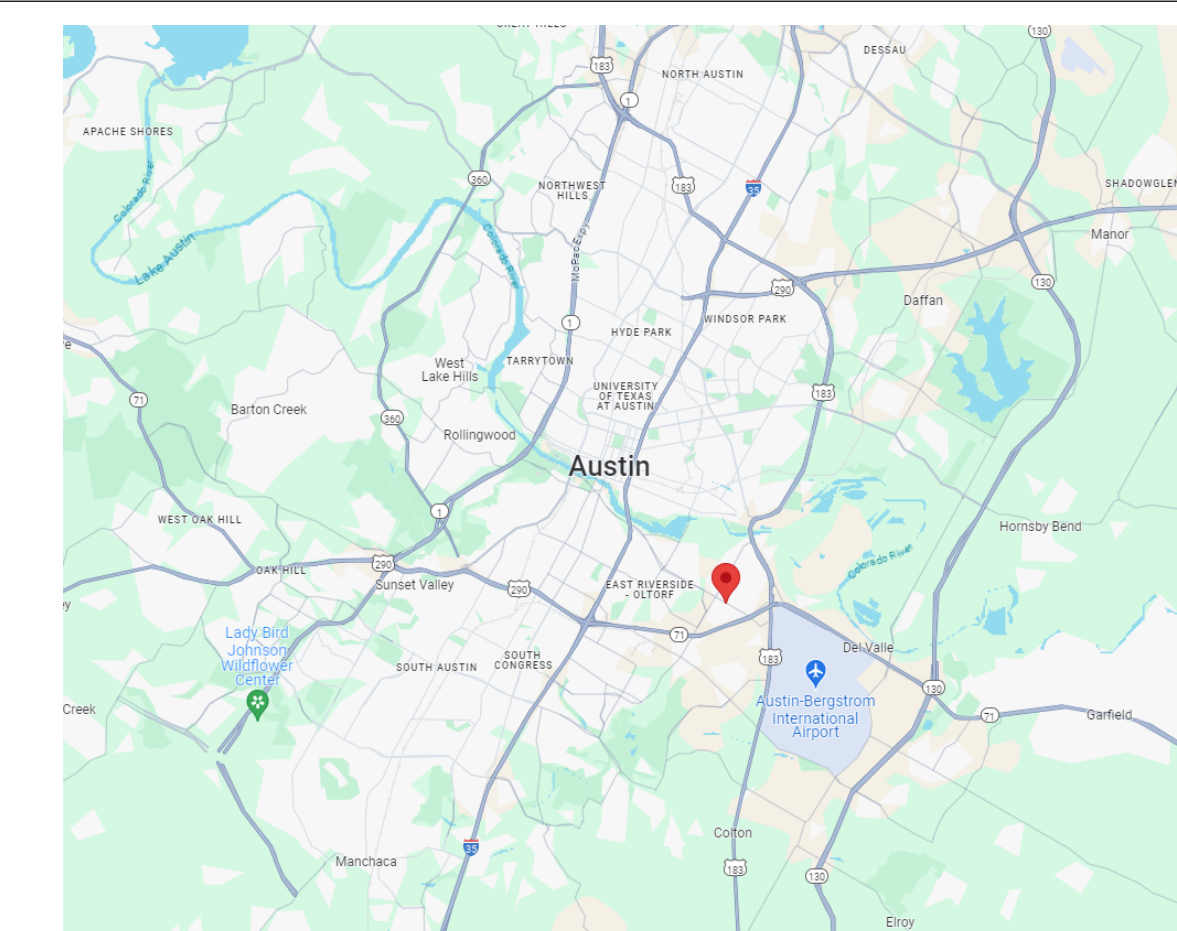
**EXISTING PERMIT NUMBERS:**

CORE & SHELL PLAN REVIEW #: 2022-148757 PR  
BUILDING PERMIT #: 2023-120995 BP  
SITE PLAN CASE #: SP-2022-0057C

**DEFERRED SUBMITTALS:**

FIRE SPRINKLER SYSTEM WILL BE UNDER A SEPERATE CONTRACT BY THE FIRE ALARM/SPRINKLER CONTRACTOR  
  
 FIRE & SMOKE ALARMS WILL BE UNDER A SEPERATE CONTRACT BY THE FIRE ALARM/SPRINKLER CONTRACTOR

**VICINITY MAP**



**TDLR NUMBER: TABS2024019684**



**PROJECT TEAM**

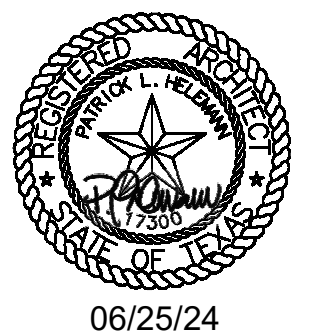
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR.  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

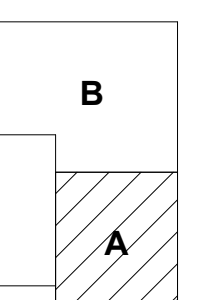
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**



06/25/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

24017

**DATE**

06/25/24

COVER PAGE &  
PROJECT SHEET INDEX

G000

**PROJECT GENERAL NOTES**

**PERFORMANCE OF THE WORK:**

- ALL PARTIES PERFORMING WORK OF THE PROJECT SHALL COMPLY WITH ALL APPLICABLE NATIONAL, FEDERAL, STATE, REGIONAL, LOCAL, AND MUNICIPAL CODES, STANDARDS, AND ORDINANCES.
- PERFORMANCE OF THE WORK SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE REQUIREMENTS, POLICIES AND PROCEDURES OF THE OWNER.
- INVESTIGATE EXISTING CONDITIONS; VERIFY AND BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE PROJECT. NOTIFY THE ARCHITECT IN WRITING OF ANY CONDITIONS CONTRARY TO THE CONTRACT DOCUMENTS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
- ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE A CONDITION OF THE FULFILLMENT OF THE CONTRACT.
- MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD, A CERTIFICATE OF INSURANCE FOR ALL LIABILITIES, WITH A HOLD HARMLESS CLAUSE, PROTECTING THE OWNER AND THE ARCHITECT.

**BIDDING AND CONTRACT DOCUMENTS:**

- THE DRAWINGS SHALL BE ISSUED TOGETHER AND COMPLETELY AS A DOCUMENT SET FOR BIDDING AND CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY, EACH TO THE OTHER, AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. FOR MATERIALS IDENTIFIED ON THE DRAWINGS, SEE THE SPECIFICATIONS FOR GENERAL, PRODUCT AND EXECUTION INFORMATION.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INCLUDE EVERYTHING REQUISITE AND NECESSARY TO COMPLETE THE WORK EVEN IF EVERYTHING REQUIRED FOR SUCH WORK IS NOT SPECIFICALLY MENTIONED OR INDICATED.
- NOTES AND REFERENCES RELATIVE TO DIFFERENT CONSTRUCTION MATERIALS, DETAILS, ASSEMBLIES AND SYSTEMS APPEAR ON VARIOUS SHEETS. SUCH NOTES AND REFERENCES ON ANY ONE SHEET ARE APPLICABLE TO RELATED DRAWINGS THROUGHOUT THE SET.
- SHOULD A DISCREPANCY BETWEEN NOTES, DRAWINGS AND/OR TECHNICAL SPECIFICATIONS BE DISCOVERED, SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR RESOLUTION OF THE DISCREPANCY.
- KEYNOTES TAGGED TO THE DRAWINGS WITH NUMBERED OR LETTERED SYMBOLS ARE TYPICAL FOR ALL SIMILAR CONDITIONS WHETHER TAGGED OR NOT.
- DETAILS SHOWN ARE INDICATIVE OF PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK.
- DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILS SHOWN.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. PRINTED DRAWINGS MAY BE REPRODUCED AT A SCALE DIFFERENT THAN INTENDED BY THE ORIGINAL DRAWING. SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR RESOLUTION OF ANY DIMENSIONAL DISCREPANCIES.
- WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- VERIFY ALL DIMENSIONS, INCLUDING BUT NOT LIMITED TO EXISTING CONDITIONS, LAYOUT OF THE WORK, AND WORK ALREADY INSTALLED BEFORE PROCEEDING WITH NEW WORK.

**COORDINATION AND SUBSTITUTION:**

- COORDINATE WORK OF ALL TRADES WITH ONE ANOTHER IN ORDER TO AVOID INTERFERENCES, TO PRESERVE MAXIMUM HEAD ROOM AND TO AVOID OMISSIONS.
- ALL ADDITIONAL COSTS, INCLUDING ALTERATION COSTS OF WORK ALREADY INSTALLED, RESULTING FROM SUBMITTALS AND SHOP DRAWINGS NOT SUBMITTED IN A TIMELY MANNER, AND NOT ALLOWING RELATED WORK TO BE INSTALLED FOR THE PROPER INSTALLATION OF THE SUBJECT WORK, SHALL BE THE SUBMITTING CONTRACTOR'S RESPONSIBILITY.
- PROPOSED CHANGES TO ANY CONSTRUCTION MATERIALS, DETAILS, ASSEMBLIES AND SYSTEMS, ETC. SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT IN ACCORDANCE WITH THE PROJECT MANUAL.
- ACCEPTED SUBSTITUTIONS REQUIRE THAT THE CONTRACTOR RESPONSIBLE FOR THE PROPOSED CHANGE TO FULLY COORDINATE WITH ALL TRADES AFFECTED BY THE SUBSTITUTION WITH RESPECT TO, BUT NOT LIMITED TO, DIMENSIONS, CLEARANCES, CONNECTIONS, ETC., REQUIRED FOR A FULLY FUNCTIONAL INSTALLATION. SUBSTITUTING CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL RELATED COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING RELATED COSTS OF OTHER TRADES OR ALTERATION COSTS TO ADAPT ANOTHER'S INSTALLED WORK.

**CONSTRUCTION PREMISES:**

- PROVIDE TEMPORARY FENCING AND PROTECTIONS AS REQUIRED BY THE NATIONAL, FEDERAL, STATE, REGIONAL, LOCAL, AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.
- PROTECT ALL EXISTING SITE ELEMENTS TO REMAIN FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. REPAIR OR REPLACE TO THE SATISFACTION OF THE OWNER, ALL ELEMENTS DAMAGED DURING THE PROJECT.
- KEEP PREMISES IN A BROOM SWEEP FINISH CONDITION DURING ALL PHASES OF THE CONSTRUCTION. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP AND DISPOSING OF THEIR DEBRIS AND WASTE MATERIALS ON A REGULAR BASIS AND LEAVE THE PROJECT IN A BROOM SWEEP FINISH CONDITION UPON COMPLETION OF THEIR PORTION OF THE WORK.
- CLEAN AND WASH ALL WINDOW GLASS, MIRRORS, FLOORS AND WALL TILES UPON COMPLETION OF THE PROJECT.

**MISCELLANEOUS:**

- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.
- REFER TO DRAWINGS OF ALL DISCIPLINES FOR EQUIPMENT REQUIRING CONCRETE EQUIPMENT PADS. PROVIDE SUCH PADS, COORDINATING THEIR SIZES AND LOCATIONS. REVIEW LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- COMPLETELY CONNECT ALL EQUIPMENT AND PROVIDE ALL NECESSARY APPENDAGES. COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL.

**ABBREVIATIONS**

#	POUND OR NUMBER
\$	DOLLAR (US CURRENCY)
&	AND

**A**

A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
AF	ACCESS FLOORING
AFB	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASST	ASSISTANT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AUTO	AUTOMATIC
AVG	AVERAGE
AWT	ACOUSTICAL WALL TREATMENT

**B**

BD	BOARD
BLDG	BUILDING
BLDG(S)	BUILDING(S)
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STEEL
BSMT	BASEMENT
BU	BUILT UP
BUR	BUILT UP ROOFING

**C**

CAB	CABINET
CEM	CEMENT(ITIOUS)
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
CFT	CONDUCTIVE FLOOR TILE
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET
CPTT	CARPET TILE
CT	CERAMIC TILE
CTR	CENTER
CTYD	COURTYARD

**D**

D	DEEP
DBL	DOUBLE
DEMO	DEMOLISH OR DEMOLITION
DEPT	DEPARTMENT
DES	DESIGN(ED)
DF	DRINKING FOUNTAIN
DIA OR Ø	DIAMETER
DIFF	DIFFERENT
DIM(S)	DIMENSIONS
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DSCON	DISCONNECT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING(S)

**E**

EA	EACH
EJ	EXPANSION JOINT
ELAST	ELASTOMERIC
ELEC	ELECTRICAL/OR ELECTRONIC
ELEV	ELEVATION
EMERG	EMERGENCY
ENGR	ENGINEER(ED)
EP	END PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	ELECTRIC WATER CLOSET
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR

**F**

FAB	FABRICATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FF	FINISHED FLOOR
FG	FINISHED GRADE
FGL	FIRE GLASS
FHC	FIRE HOSE AND CABINET
FIN	FINISH
FLDG	FOLDING
FLR	FLOOR OR FLOORING
FLSHG	FLASHING
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FP	FILLER PANEL
FPLC	FIREPLACE
FR	FIRE RATING OR FIRE RATED
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FURN	FURNITURE

FWC	FABRIC WALL COVERING
FXTR	FIXTURE

**G**

GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS
GR	GRILLE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

**H**

HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HPM	HAZARDOUS PROCESS MATERIAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING

**I**

ILO	IN LIEU OF
IN	INCH OR INCHES
INCL	INCLUDE(ED)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR

**J**

JAN	JANITOR
JNT	JOINT

**K**

KS	KITCHEN SINK
----	--------------

**L**

LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LN	LINEN CABINET
LP	LOW POINT
LT	LIGHT
LVL	LEVEL
LVT	LUXURY VINYL TILE

**M**

MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLWK	MILLWORK
MOT	MOTOR OR MOTORIZED
MRCGWB	MOISTURE RESISTANT GYPSUM WALL BOARD
MVD	MOUNTED
MTL	METAL
MW	MICROWAVE
MWC	METAL WALLCOVERING

**N**

NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE

**O**

OC	ON CENTER
OFCI	OWNER FURNISHED AND CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED AND OWNER INSTALLED
OH	OPPOSITE HAND
OH	OVERHANG
OPNG	OPENING(S)
OPP	OPPOSITE
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
ORNA	ORNAMENTAL
OTO	OUT TO OUT
OVFL	OVERFLOW
OVHD	OVERHEAD

**P**

PAN	PANTRY
PBD	PARTICLE BOARD
PCC	PRE-CAST CONCRETE
PEDR	PEDESTRIAN
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLT	PLATE
PNL	PANEL
PNT	PAINT
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRTECN	PROTECTION
PVC	POLYVINYL CHLORIDE

**R**

RAD	RADIUS
RB	RUBBER BASE
RC	RESILIENT CHANNEL
RCP	REFLECTED CEILING PLAN

RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
RECES	RECESSED
REF	REFER OR REFERENCE
REFL	REFLECTED
REFR	REFRIGERATOR
REINF	REINFORCED OR REINFORCING
REQD	REQUIRED
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RSB	REMOVABLE SINK BASE

**S**

SAT	SUSPENDED ACOUSTIC TILE CEILING
SB	SINK BASE
SC	SOLID CORE
SCH	SCHEDULE
SF	SQUARE FEET
SGL	SINGLE
SH	SHELF OR SHELVES
SHT	SHEET
SIM	SIMILAR
SLNT	SEALANT
SPEC	SPECIFICATION OR SPECIFIED
SPK	SPRINKLER(S)
SPM	SINGLE PLY MEMBRANE
SSM	SOLID SURFACE MATERIAL
SSTL	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYS	SYSTEM OR SYSTEMS

**T**

T&G	TONGUE AND GROOVE
T/D	TELEPHONE/DATA
TELE	TELECOMMUNICATIONS
TEMP	TEMPERED
THK	THICK
THR	THRESHOLD
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TRANS	TRANSPARENT
TRD	TREAD
TW	TILT WALL
TYP	TYPICAL

**U**

UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
US	UNDERSIDE
UTIL	UTILITY

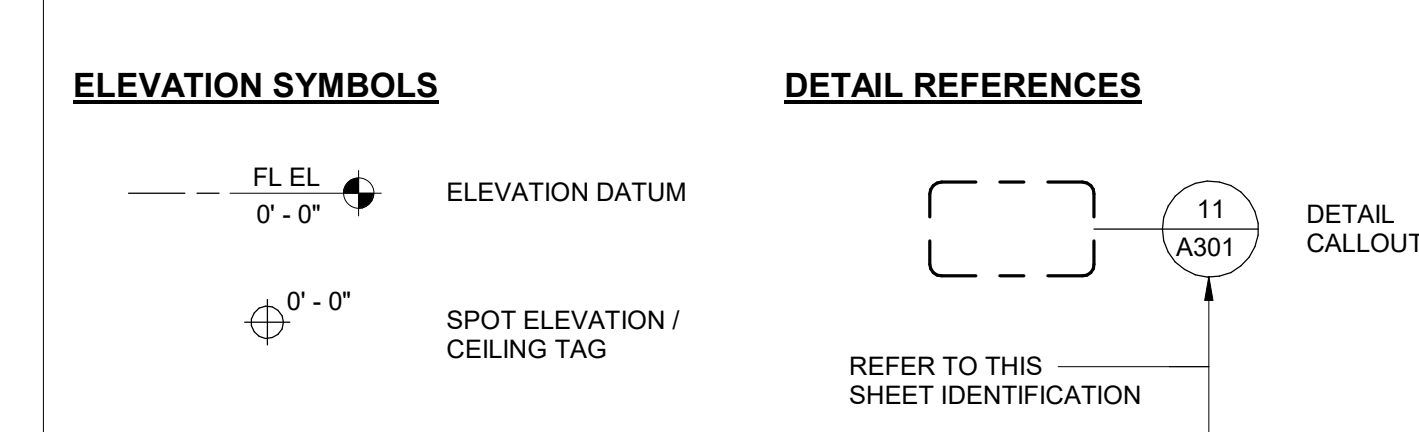
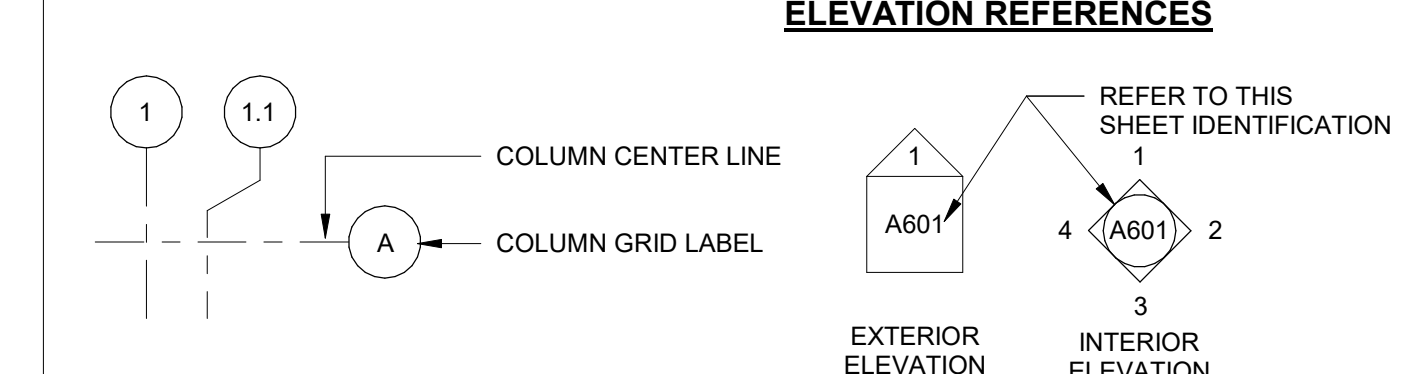
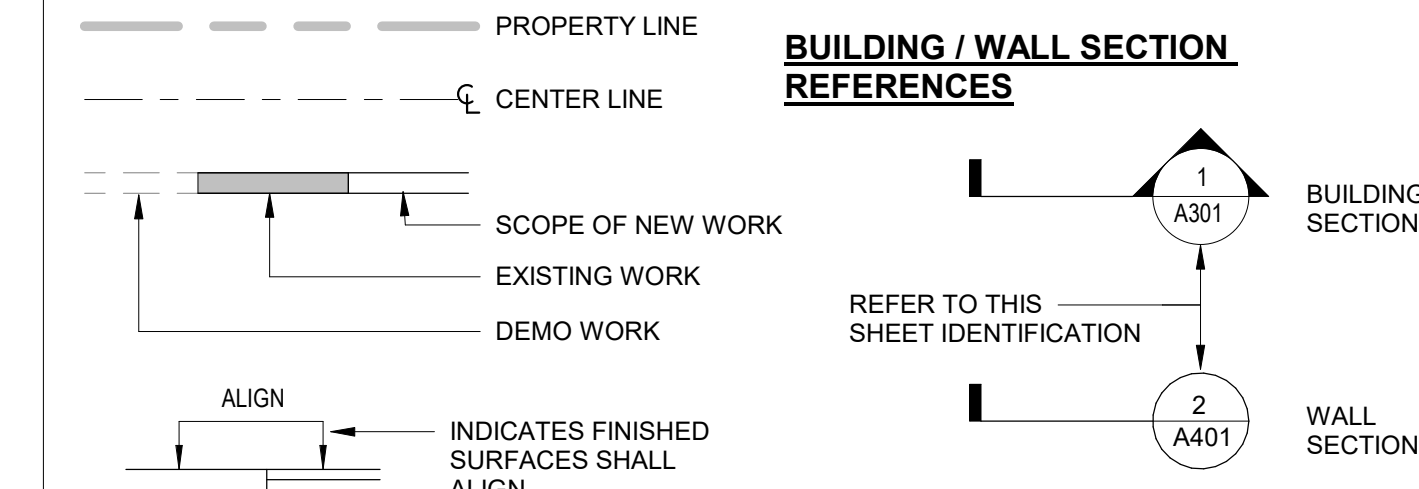
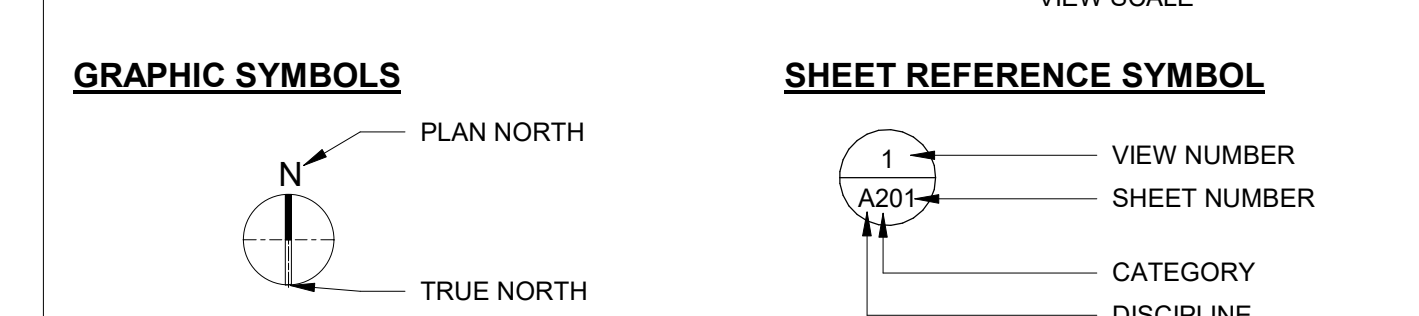
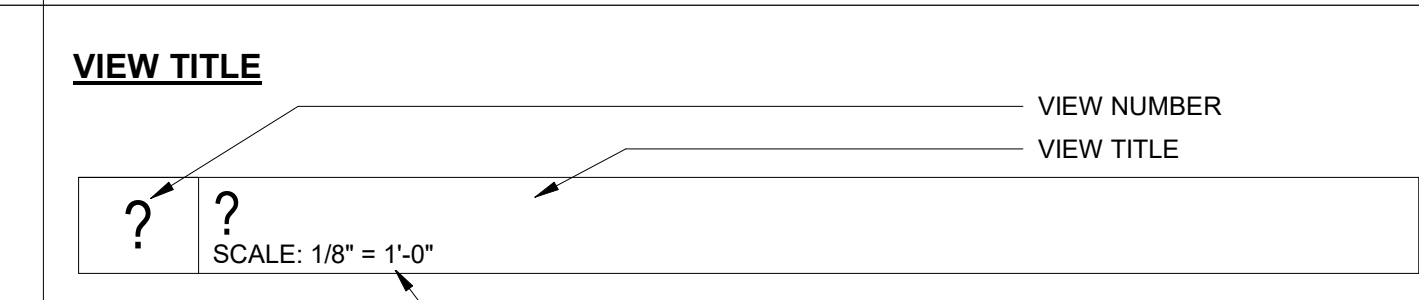
**V**

VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VP	VENT PIPE
VS	VERSUS OR VANITY SINK
VS	VANITY SINK BASE

**W**

W	WIDE
W/	WITH
W/D	WASHER/DRYER
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WP	WATERPROOF/OR WEATHERPROOF
WT	WEIGHT

**ANNOTATION SYMBOLS**



**MATERIAL LEGEND**

<b>CONCRETE</b>	CONCRETE	<b>METALS</b>	METAL
<b>MASONRY</b>	BRICK - COMMON BOND	<b>THERMAL AND MOISTURE PROTECTION</b>	RIGID INSULATION
	BRICK - STACK BOND		BATT INSULATION
	ARCHITECTURAL CAST STONE		FIBROUS FIRE SAFING
	CONCRETE MASONRY UNIT		LOOSE FILL INSULATION
	GROUT	<b>FINISHES</b>	GYPSUM BOARD
	STONE		TILE/VCT/LVT
	BRICK/STONE		STUCCO/ EIFS
	CMU		HERRINGBONE
	CMU - STACKED		CHEVRON
<b>WOOD, PLASTIC AND COMPOSITES</b>	PLYWOOD		WOOD FLOORING/ LVT
	WOOD		STONE ASHLAR
	WOOD - CONTINUOUS	<b>EARTHWORK</b>	SAND
	WOOD - BLOCKING		EARTH
			GRAVEL



**PROJECT TEAM**

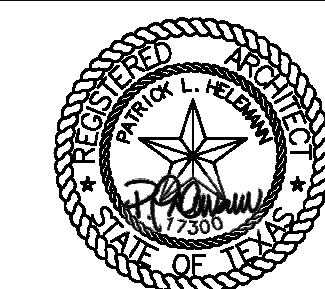
**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

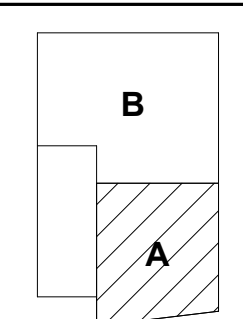
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT  
**PROJECT NAME**  
 SUPER KIDS DENTAL  
**PROJECT ADDRESS**  
 6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741  
**PROJECT NUMBER**  
 24017  
**DATE**  
 05/30/24

**GENERAL NOTES, LEGENDS AND ABBREVIATIONS**

G002

CODE REVIEW - OCCUPANCY SCHEDULE - ROOM (IBC CHAPTER 10)

**SUITE 201**  
 OCCUPANCY - B (BUSINESS)  
 AREA: 2,189 S.F.  
 OCCUPANCY LOAD FACTOR: 100 GROSS (BUSINESS AREAS)  
 TOTAL OCCUPANT LOAD: 22

(IBC CHAPTER 10) MINIMUM CORRIDOR WIDTH

36 INCHES MINIMUM

(IBC CHAPTER 10) MINIMUM STAIR WIDTH

44 INCHES MINIMUM

(IBC CHAPTER 10) DEAD END CORRIDORS

50 FT

(IBC CHAPTER 10) EXIT ACCESS TRAVEL DISTANCE

300 FT

(IBC CHAPTER 10) CORRIDOR FIRE - RESITANCE RATING

FIRE RESISTANCE RATINGS (HOURS)  
 0

(IBC CHAPTER 15) MINIMUM ROOF COVERING CLASSIFICATION

CLASS C

(IBC CHAPTER 29) PLUMBING FIXTURES

OCCUPANCY TOTAL	WATER CLOSETS			LAVATORIES			DRINKING FOUNTAIN	SERVICE SINK
22	1 PER 25			1 PER 40				
MALE: 11	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	1 PER 100	1
FEMALE: 11								
REQUIRED	0	1	1	0	1	1	1	1
PROVIDED	1	1	1	1	1	1	2	1
TOTAL	1	1	1	1	1	1	2	1

(IECC CHAPTER 4) INSULATION REQUIREMENTS

COMPONENT	INSULATION CONDITION	MIN. INSULATION REQUIREMENTS	INSULATION PROVIDED FOR COMPLIANCE
ROOFS	INSULATION ABOVE DECK	R-38	R-38
WALLS	OTHER	R-13 + R-5 ci	R-13 + R-5 ci

CODE ANALYSIS / PROJECT INFORMATION

**PROJECT SUMMARY:** 2,189 SQUARE FEET INTERIOR TENANT BUILD-OUT OF A DENTAL OFFICE SPACE INSIDE AN EXISTING 2-STORY BUILDING WITH PARKING ON THE GROUND LEVEL. (LEVEL 1). EXISTING SHARED COMMON RESTROOMS AND MAINTENANCE UTILITY CLOSET SERVES THE ENTIRE LEVEL 2 SUITES. THE EXISTING BUILDING CONSTRUCTION TYPE IS TYPE II-B.

**PROJECT NAME:** SUPER KIDS DENTAL

**PROJECT ADDRESS:** 6707 E RIVERSIDE DRIVE, UNIT 201, AUSTIN, TX 78741

**OCCUPANCY TYPE:** B (BUSINESS)

**CONSTRUCTION TYPE:** TYPE II-B (EXISTING BUILDING)

**BUILD-OUT SQ. FT.:** 2,189 SF

**FIRE PROTECTION:** 100% SPRINKLERED (NFPA 13)

**CODE ANALYSIS / PROJECT INFORMATION**

2021 AUSTIN BUILDING CODE  
 2021 INTERNATIONAL BUILDING CODE  
 2021 INTERNATIONAL FIRE CODE  
 2021 INTERNATIONAL ENERGY CONSERVATION CODE  
 2021 UNIFORM MECHANICAL CODE  
 2021 UNIFORM PLUMBING CODE  
 2023 NATIONAL ELECTRIC CODE  
 2012 TEXAS ACCESSIBILITY STANDARDS

(IBC CHAPTER 5) ALLOWABLE BUILDING HEIGHT AND AREA

	ALLOWABLE	ACTUAL
BUILDING HEIGHT	75 FEET	32'-6"
NUMBER OF STORIES	4	2
BUILDING AREA	69,000 SF	6,678 SF (1ST FLR) 6,711 SF (2ND FLR)

(IBC CHAPTER 6) FIRE-RESISTANCE RATING REQUIREMENTS

FIRE RATING REQUIREMENTS (TABLE 601)		
NR = NON-RATED NIC = NON-COMBUSTIBLE NA = NOT APPLICABLE		
PRIMARY STRUCTURAL FRAME	0 HR	TABLE 601
EXTERIOR BEARING WALLS	0 HR	TABLE 601
INTERIOR BEARING WALLS	0 HR	TABLE 601
EXTERIOR NON-BEARING WALLS	0 HR	TABLE 705.5
INTERIOR NON-BEARING WALLS	0 HR	TABLE 601
FLOOR CONSTRUCTION	0 HR	TABLE 601
ROOF CONSTRUCTION	0 HR	TABLE 601

(IBC CHAPTER 7) FIRE SEPARATION DISTANCE

FIRE SEPARATION DISTANCE = X (FEET)	FIRE RATING REQUIRED
X < 5	1
5 ≤ X < 10	1
10 ≤ X < 30	0
X ≥ 30	0

(IBC CHAPTER 7) MAX. AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, SPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, SPRINKLERED	15%
5 TO LESS THAN 10	UNPROTECTED, SPRINKLERED	25%
10 TO LESS THAN 15	UNPROTECTED, SPRINKLERED	45%
15 TO LESS THAN 20	UNPROTECTED, SPRINKLERED	75%
20 TO LESS THAN 25	UNPROTECTED, SPRINKLERED	NO LIMIT
25 TO LESS THAN 30	UNPROTECTED, SPRINKLERED	NO LIMIT
30 OR GREATER	UNPROTECTED, SPRINKLERED	NO LIMIT

(IBC CHAPTER 7) FIRE WALL FIRE-RESISTANCE RATINGS

FIRE RESISTANCE RATINGS (HOURS)  
 N/A

(IBC CHAPTER 7) FIRE RESISTANCE RATING REQUIREMENTS FOR FIRE BARRIERS, FIRE WALLS, OR HORIZONTAL ASSEMBLIES BETWEEN FIRE AREAS

FIRE RESISTANCE RATINGS (HOURS)  
 N/A

(IBC CHAPTER 7) SHAFT ENCLOSURES

FIRE RESISTANCE RATING (HOURS)  
 1

(IBC CHAPTER 8) INTERIOR WALL AND CEILING FINISH REQUIREMENTS

CLASS A = FLAME SPREAD INDEX OF 0-25; SMOKE-DEVELOPED INDEX 0-450  
 CLASS B = FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450  
 CLASS C = FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES
B	C	C

(IBC CHAPTER 9) FIRE SPRINKLER

NFPA 13 (EXISTING)

(IBC CHAPTER 9) FIRE ALARM AND DETECTION SYSTEMS

FIRE ALARM REQUIRED  
 SMOKE DETECTION REQUIRED

(IBC CHAPTER 9) EMERGENCY RESPONDER COMMUNICATION COVERAGE

EMERGENCY RESPONDER RADIO COVERAGE (ERRC)  
 THE BUILDING STRUCTURE SHALL COMPLY WITH ALL APPLICABLE ERRC CODE PROVISIONS OF THE INTERNATIONAL FIRE CODE, SECTION 510. EMERGENCY RESPONDER RADIO COVERAGE PLANS AND SPECIAL INSPECTION REPORT LETTER THAT HAVE BEEN SEALED, SIGNED AND DATED BY A TEXAS REGISTERED ENGINEER



PROJECT TEAM

**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

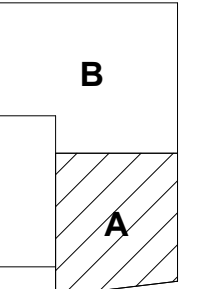
#	DESCRIPTION	DATE
---	-------------	------

SEAL / SIGNATURE



05/30/24

KEY MAP



PROJECT STATUS

ISSUE FOR PERMIT

PROJECT NAME

SUPER KIDS DENTAL

PROJECT ADDRESS

6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741

PROJECT NUMBER

24017

DATE

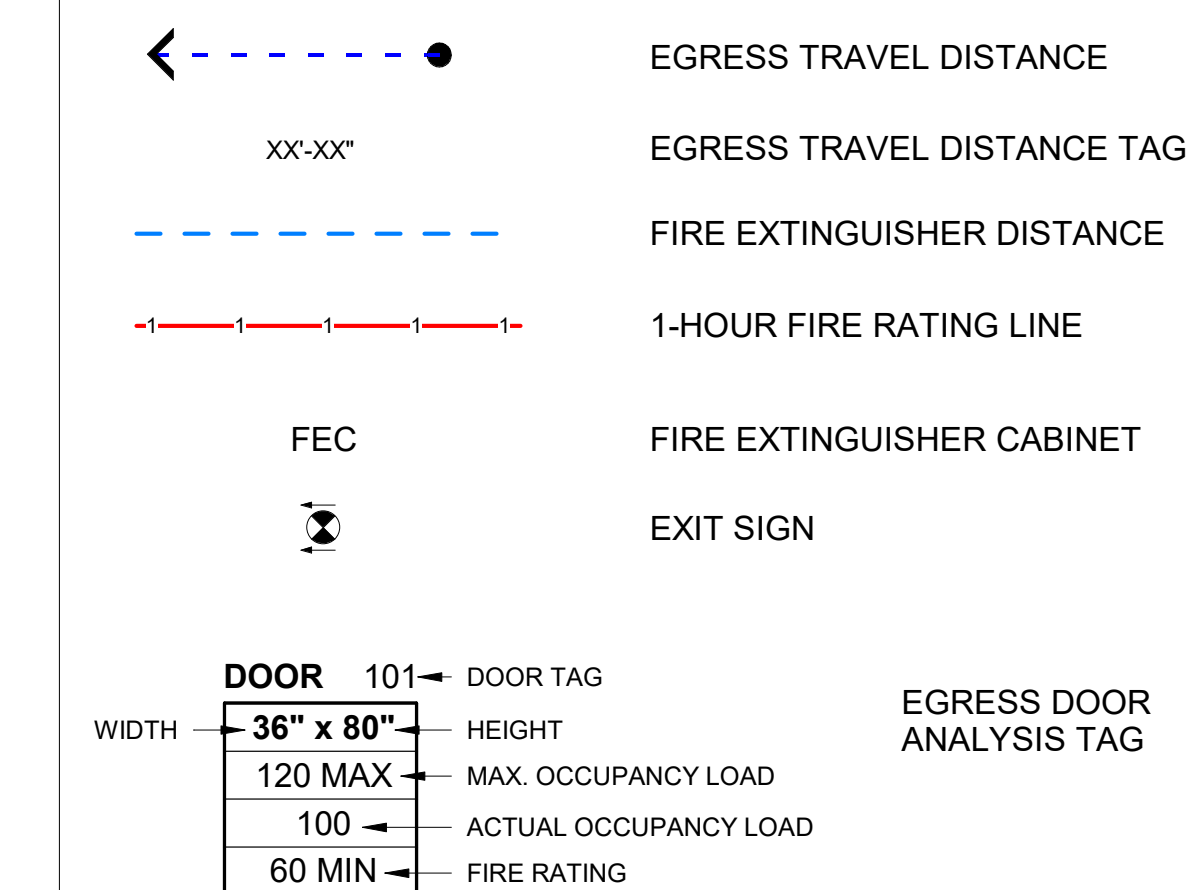
05/30/24

PROJECT INFORMATION AND CODE ANALYSIS

G003



**LIFE SAFETY PLAN LEGEND**



**PROJECT TEAM**

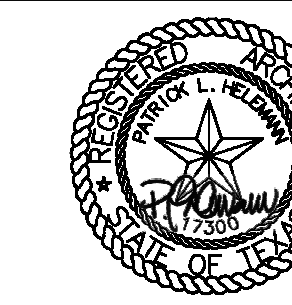
**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

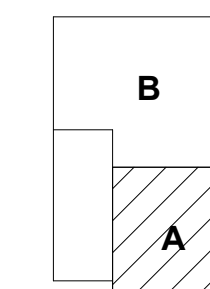
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**



06/25/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741

**PROJECT NUMBER**

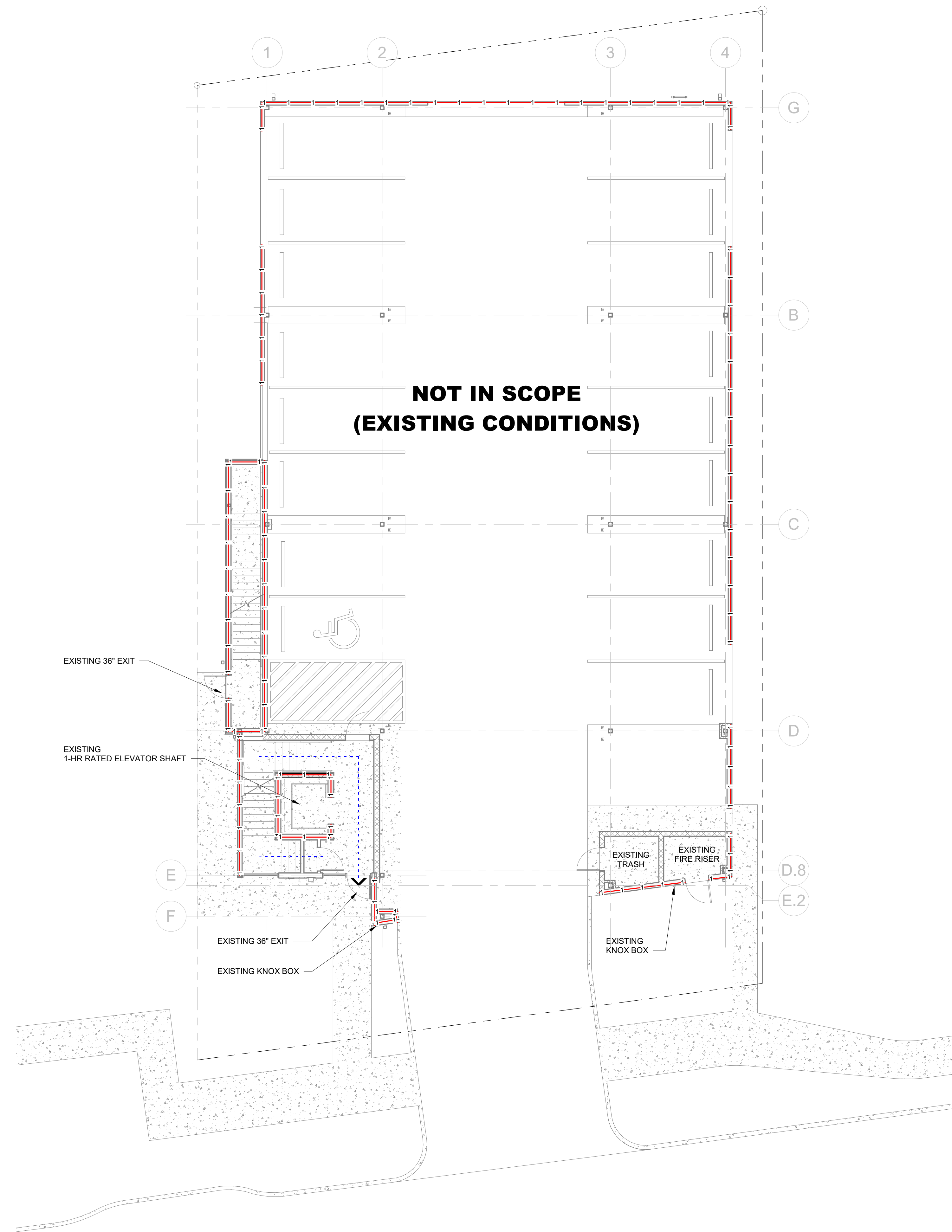
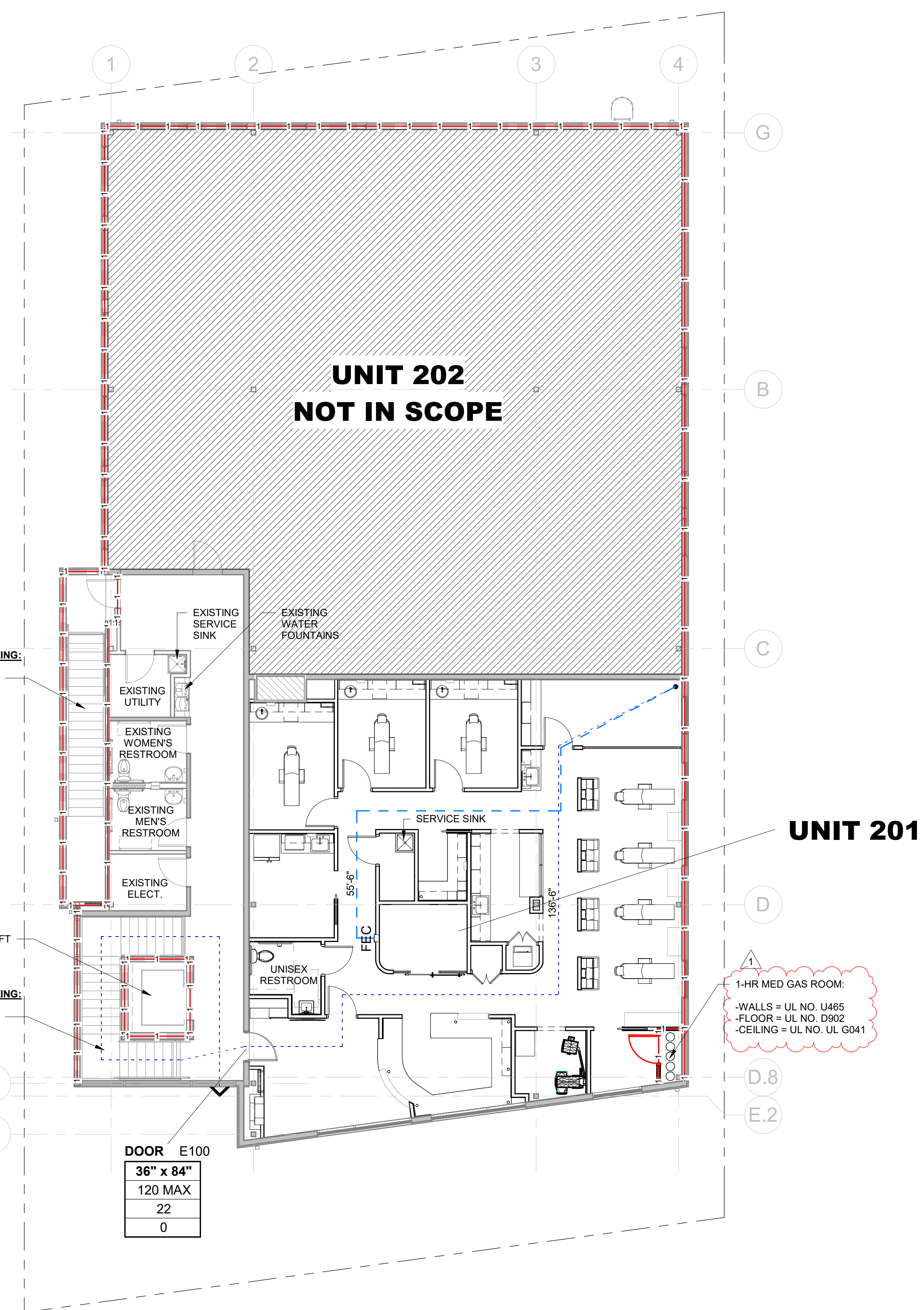
24017

**DATE**

06/25/24

**LIFE SAFETY PLAN**

G004



**ADA GENERAL NOTES**

1. VERTICAL DIMENSIONS FOR BUILT-IN ACCESSORIES, CASEWORK, COUNTERS, ELECTRICAL DEVICES, ELEMENTS, FEATURES, HARDWARE, PLUMBING FIXTURES, SIGNAGE, THERMOSTATS, ETC. REQUIRED TO BE IN COMPLIANCE WITH ACCESSIBILITY LAWS AND STANDARDS SHALL BE MEASURED FROM TOP OF FINISH FLOORING MATERIALS.
2. DIAGRAMS ARE PROVIDED TO ESTABLISH MOUNTING HEIGHTS. SEE CONSTRUCTION DOCUMENTS FOR ACTUAL EQUIPMENT DESIGN, MODEL NO., DEVICE LOCATIONS AT DOORS AND PLAN LOCATION.
3. CLEAR FLOOR SPACE OF 30" X 48" SHALL BE PROVIDED FOR A FORWARD OR PARALLEL APPROACH AT ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SUCH AS THERMOSTATS. FOR REACH RANGES, SEE REACH RANGE DIAGRAM. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.
4. ALL GRAB BARS AND BLOCKING SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES, STANDARDS, AND LAWS.
5. BLOCKING SHALL BE INSTALLED AT TIME OF INITIAL CONSTRUCTION.
6. GRAB BARS SHALL BE PROVIDED AT COMMON/PUBLIC ACCESSIBLE TOILETS.
7. GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.
8. GRAB BARS SHALL NOT ROTATE WITHIN THE FITTINGS.
9. STRUCTURAL STRENGTH OF MATERIALS, FASTENERS, MOUNTING DEVICES, AND SUPPORTING STRUCTURES SHALL RESIST A SINGLE FORCE OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICES, OR SUPPORTING STRUCTURES.

**PROJECT TEAM**

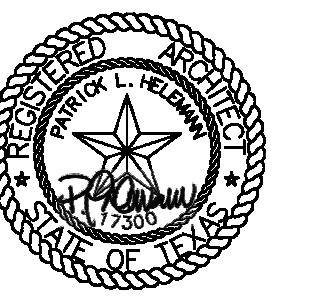
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

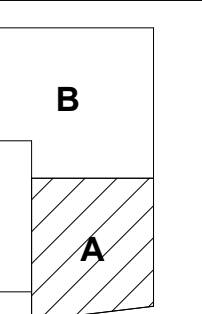
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

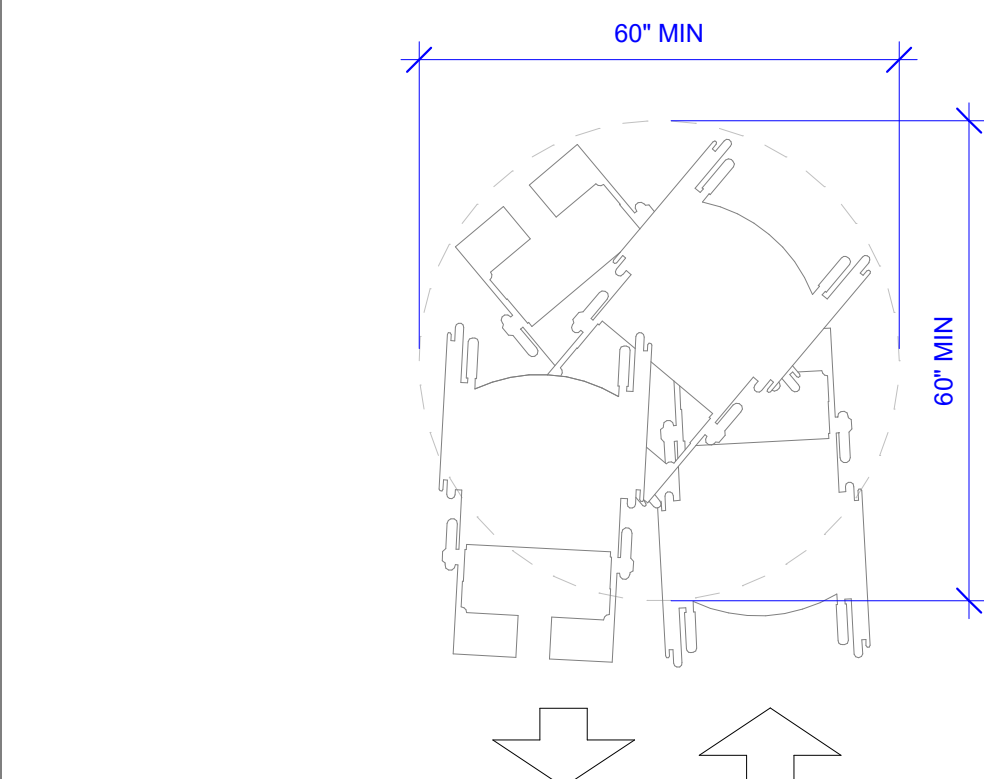
24017

**DATE**

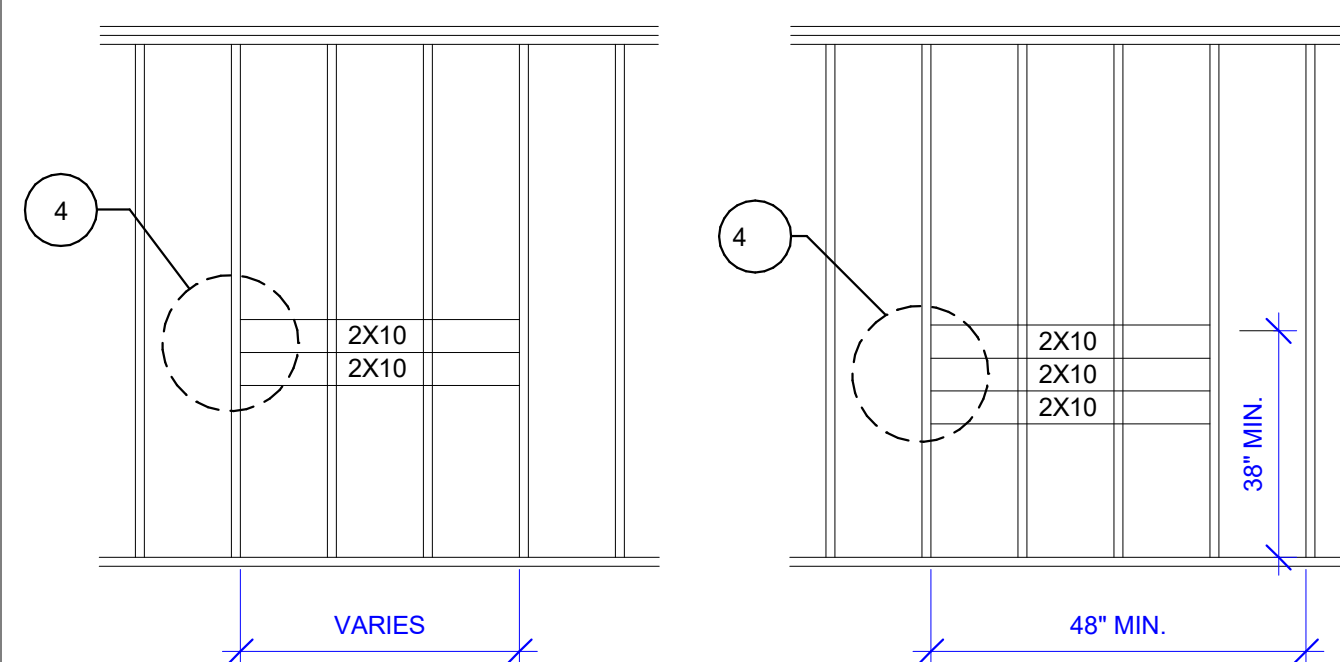
05/30/24

**ACCESSIBILITY DIAGRAMS**

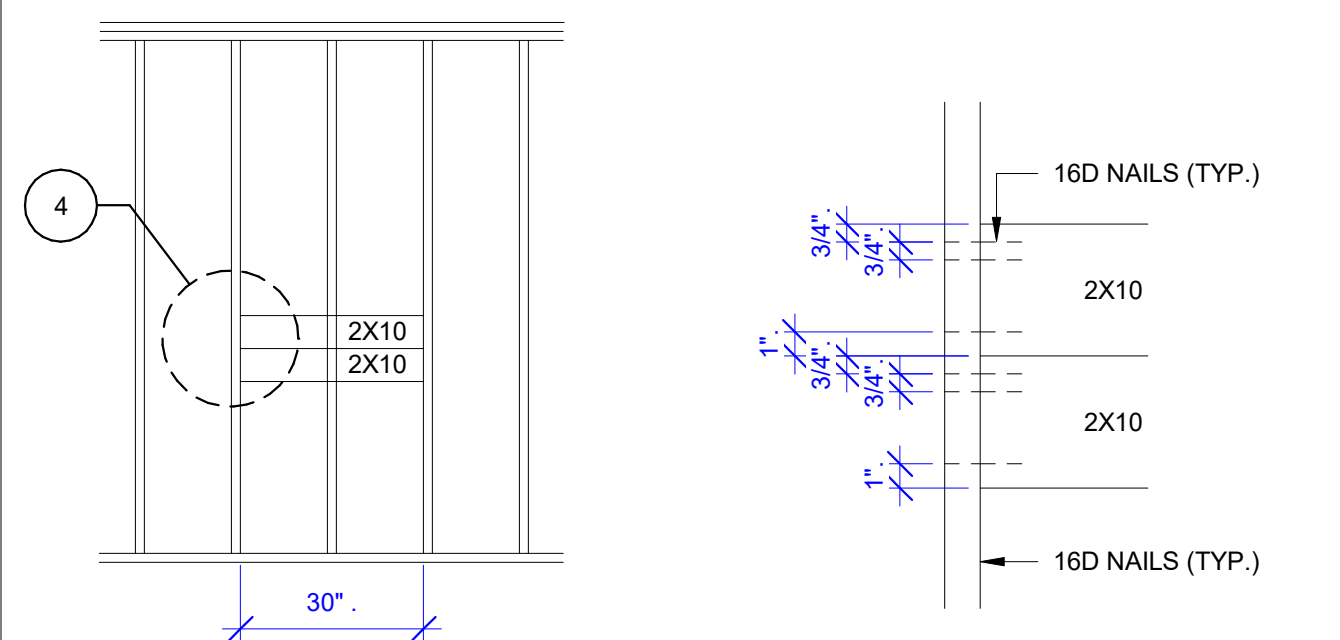
**G101**



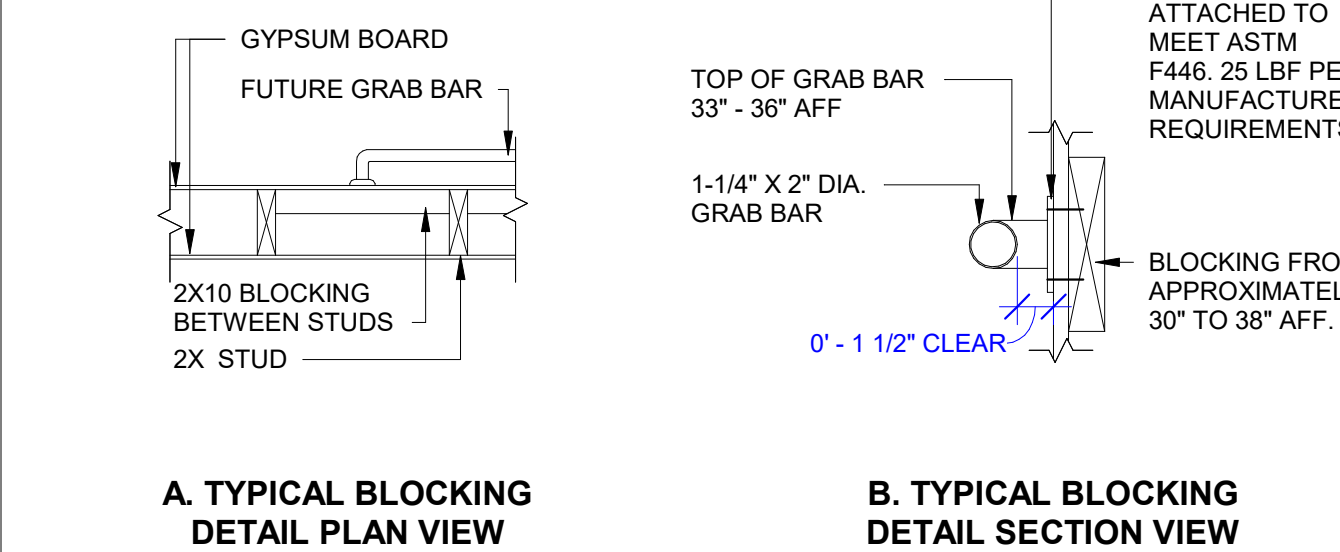
**1 WHEELCHAIR TURNING RADIUS**  
N.T.S.



**1. REINFORCING BLOCKING AT GRAB BARS**  
**2. REINFORCING BLOCKING AT GRAB BARS FOR SHOWER OR BATHTUB**

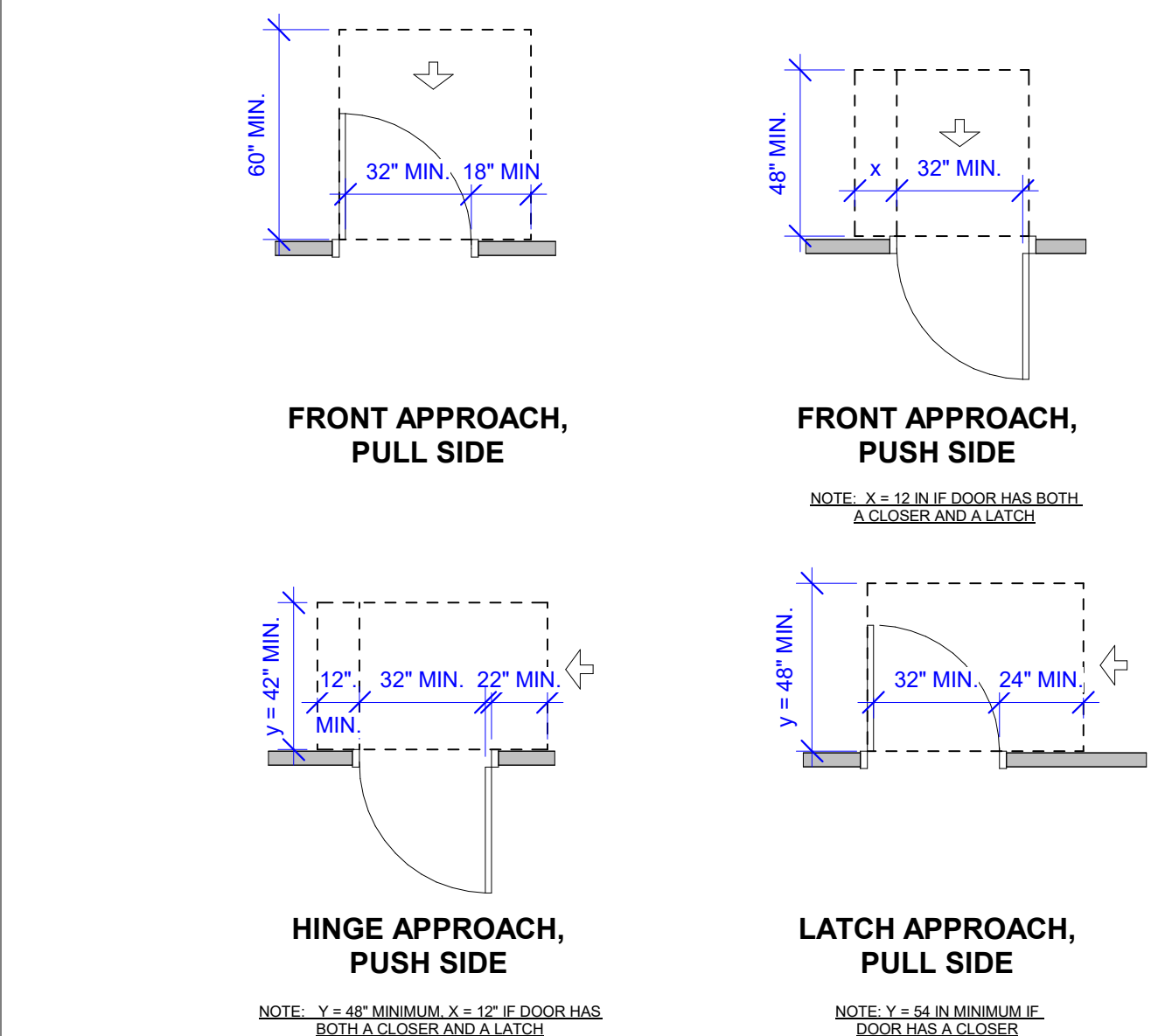


**3. REINFORCING BLOCKING AT RETRACTABLE GRAB BARS**  
**4. NAILING DETAIL AT WOOD STUDS**

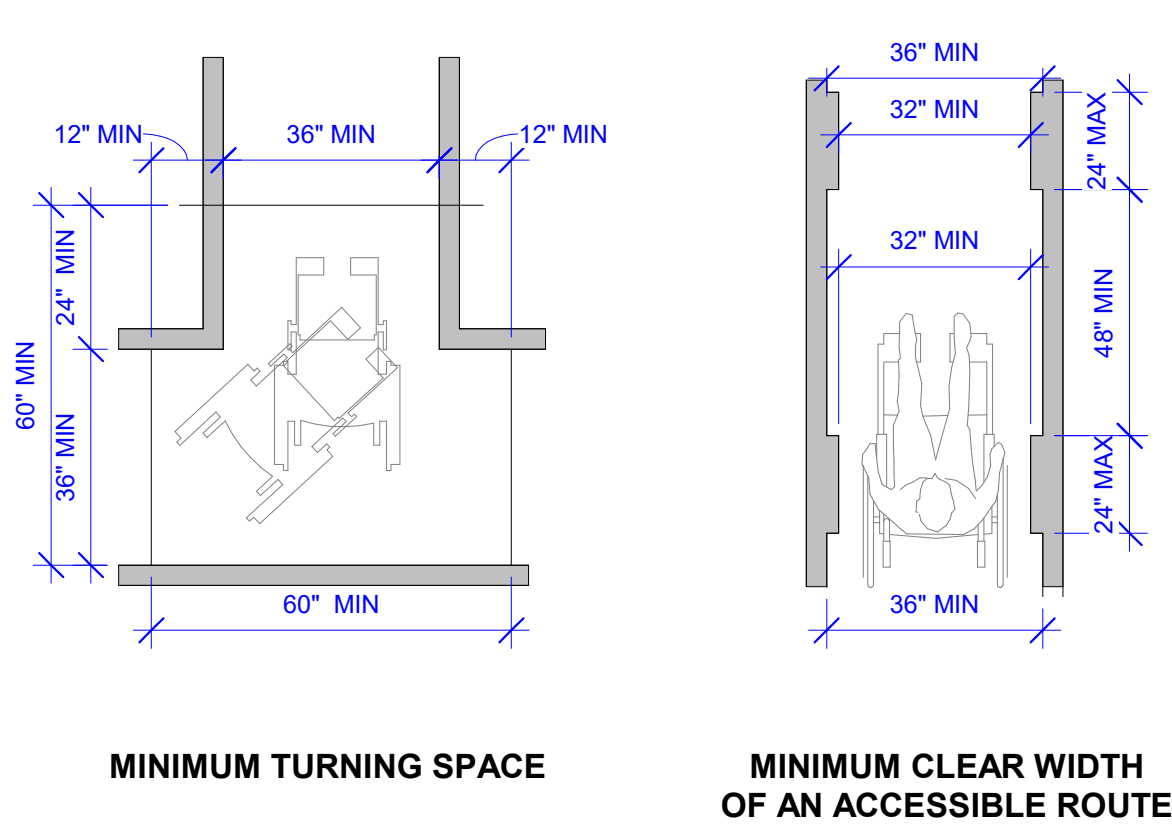


**NOTE:**  
BLOCKING PROVIDED AT WATER CLOSET AND BATHTUB/SHOWER SHALL EXTEND THE FULL RANGE OF THE GRAB LOCATIONS. THE EXTENT OF THE BLOCKING MUST ALSO INCLUDE PROVISIONS FOR THE MOUNTING PLATES AND ADEQUATE EDGE DISTANCE FOR THE MOUNTING SCREWS. CONTRACTOR TO COMPLY WITH SET REGULATION PER ASTM F446 WHERE GRAB BARS ARE TO MEET 250 LBF. (RE: SECTION 609)

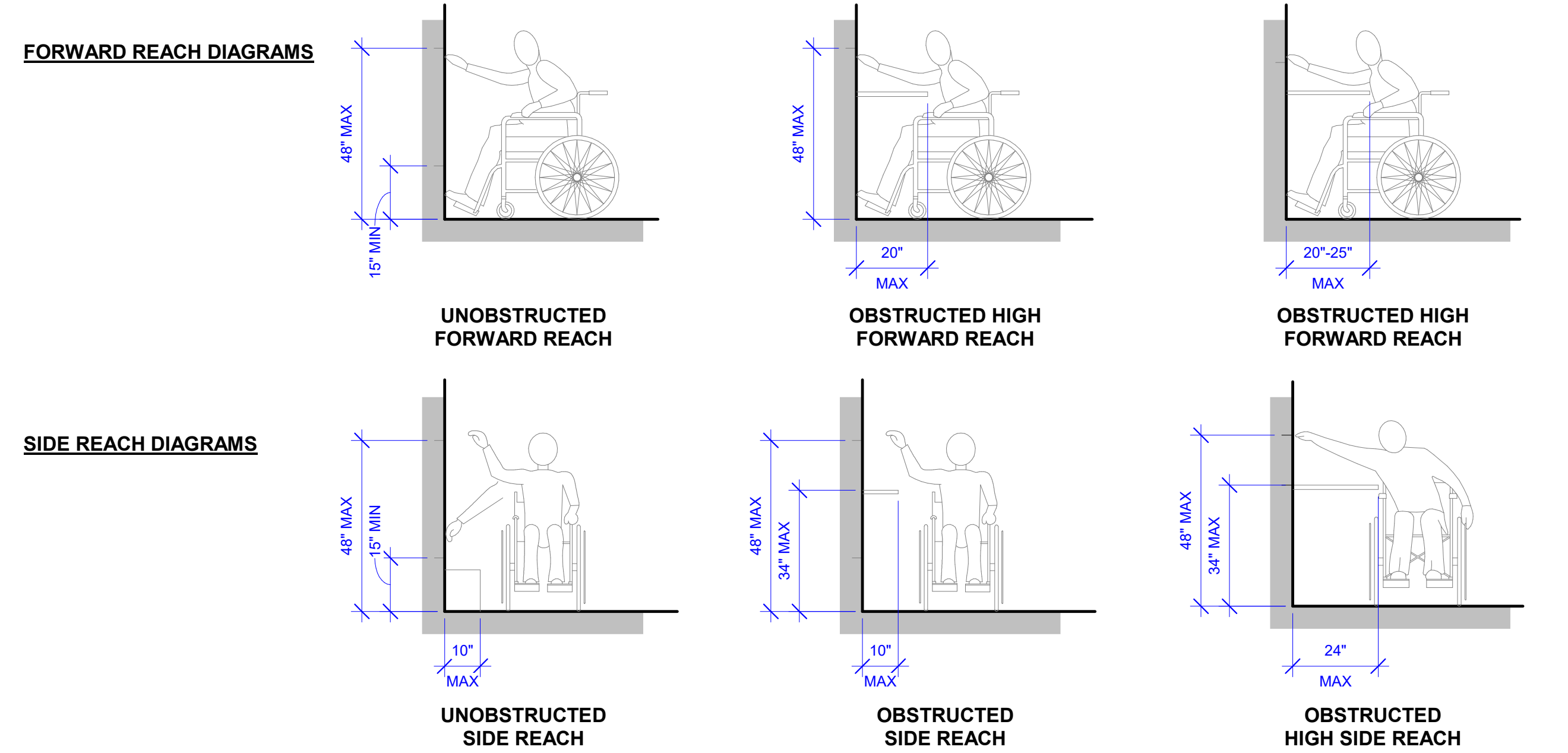
**5 BLOCKING MOUNTING HEIGHT AT GRAB BARS**  
N.T.S.



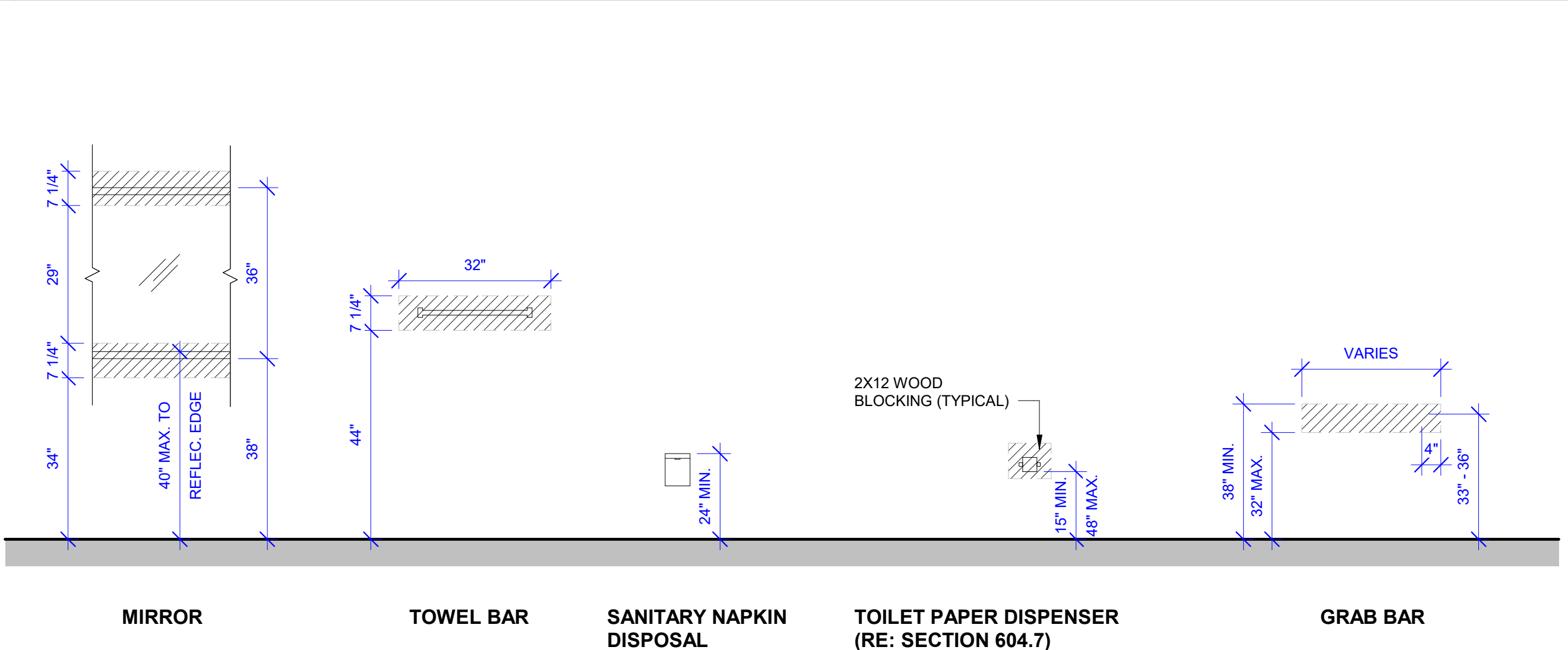
**10 MANEUVERING**  
N.T.S.



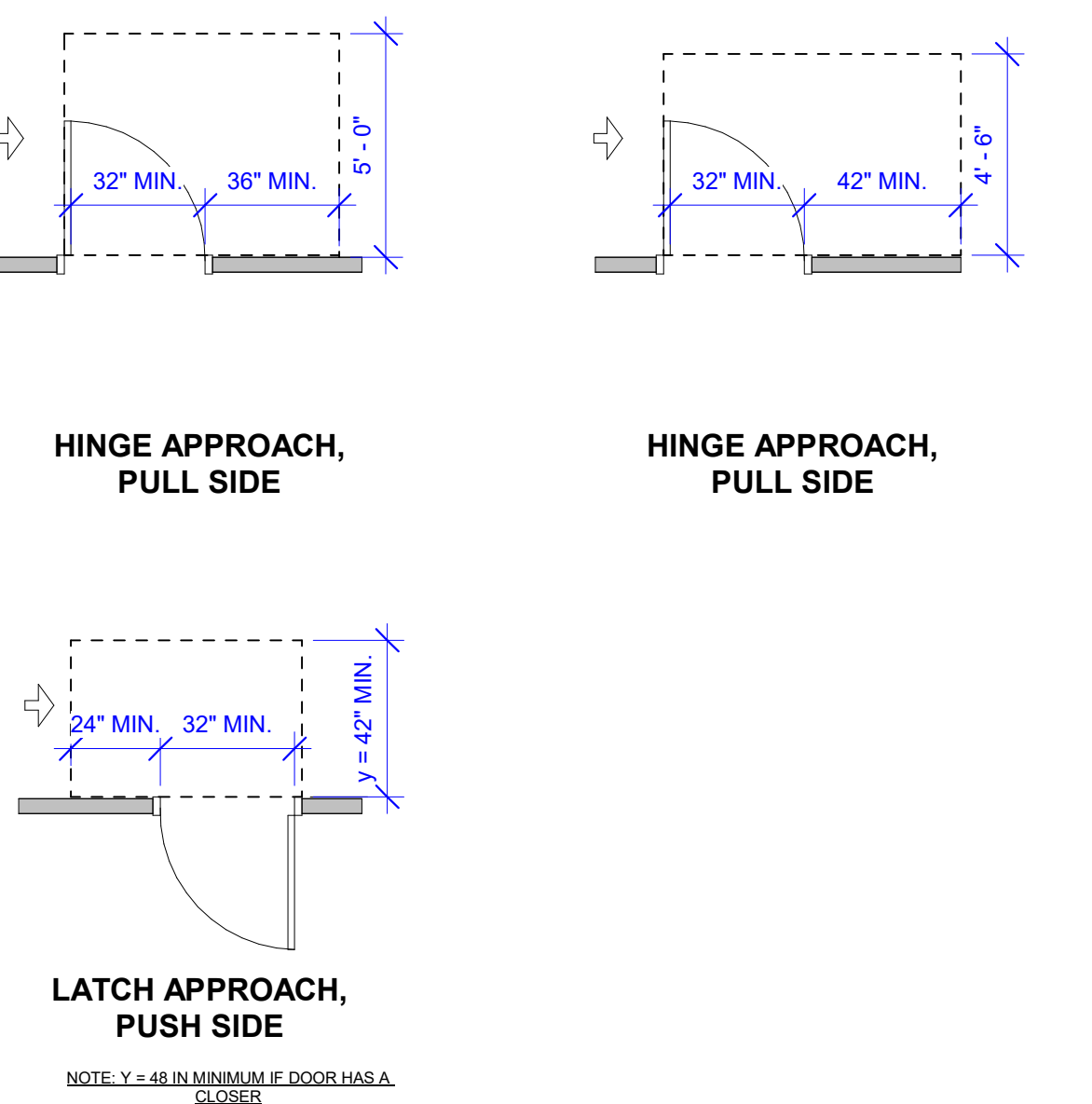
**2 MINIMUM CLEAR WIDTH**  
N.T.S.



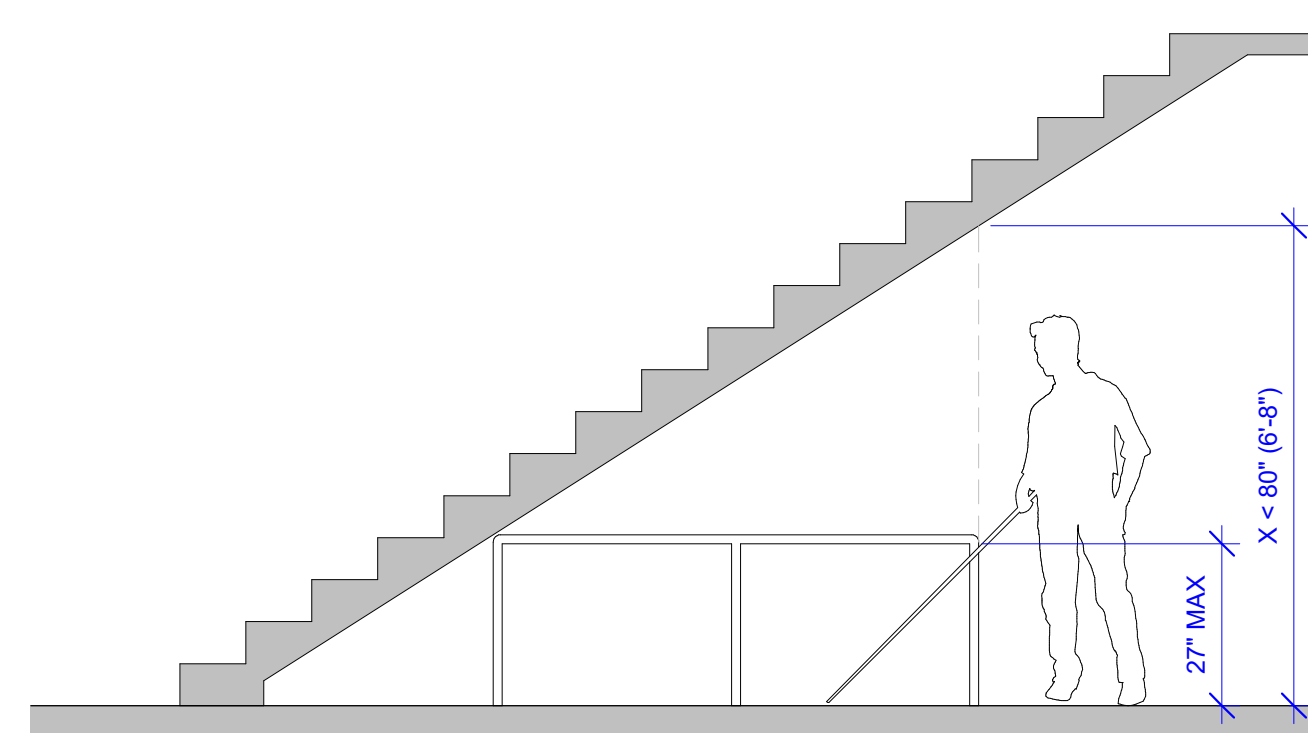
**6 REACH RANGE DIAGRAMS**  
N.T.S.



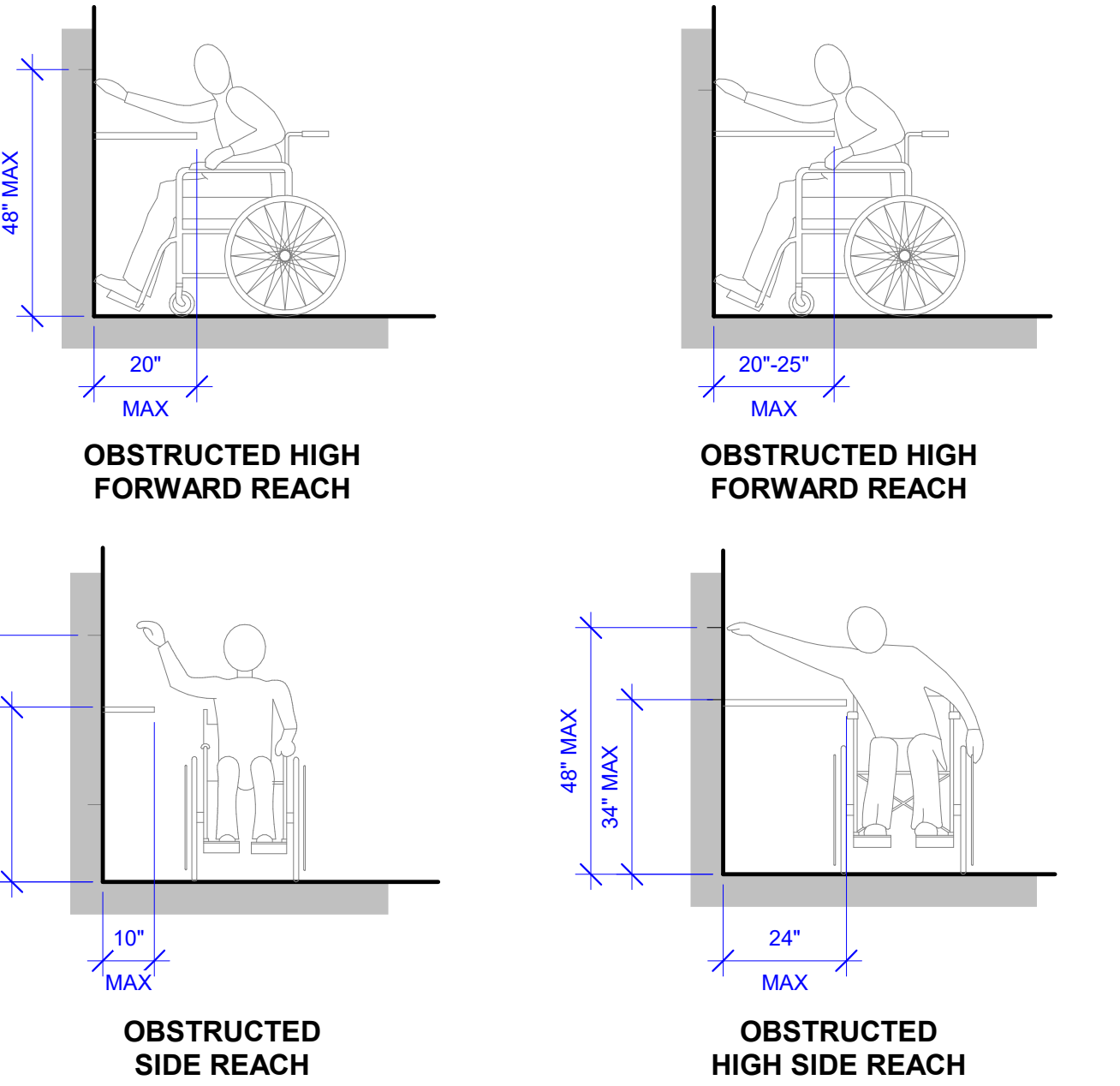
**8 BLOCKING MOUNTING HEIGHTS REQUIREMENTS**  
N.T.S.



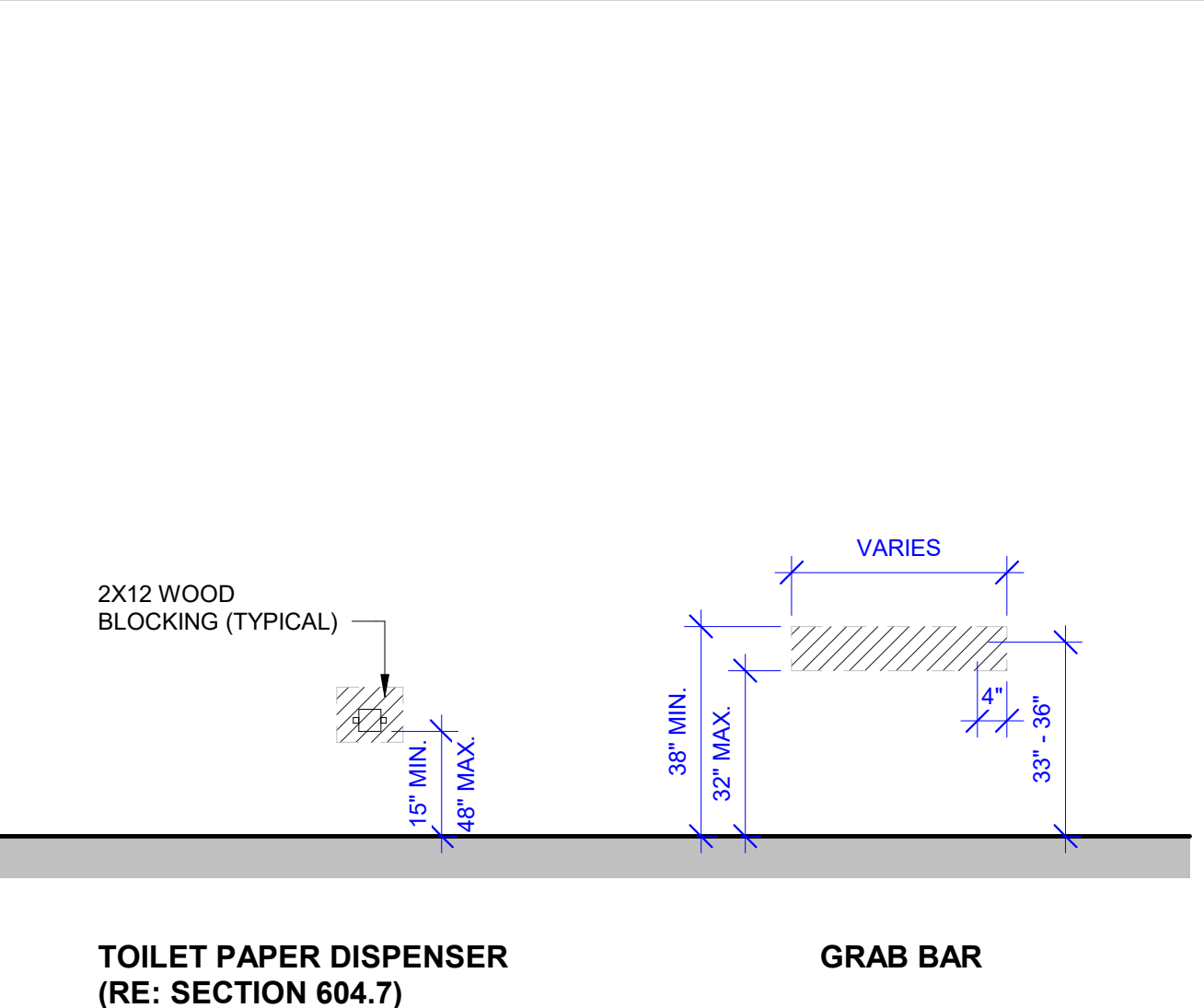
**11 CLEAR WIDTHS OF DOORWAYS**  
N.T.S.



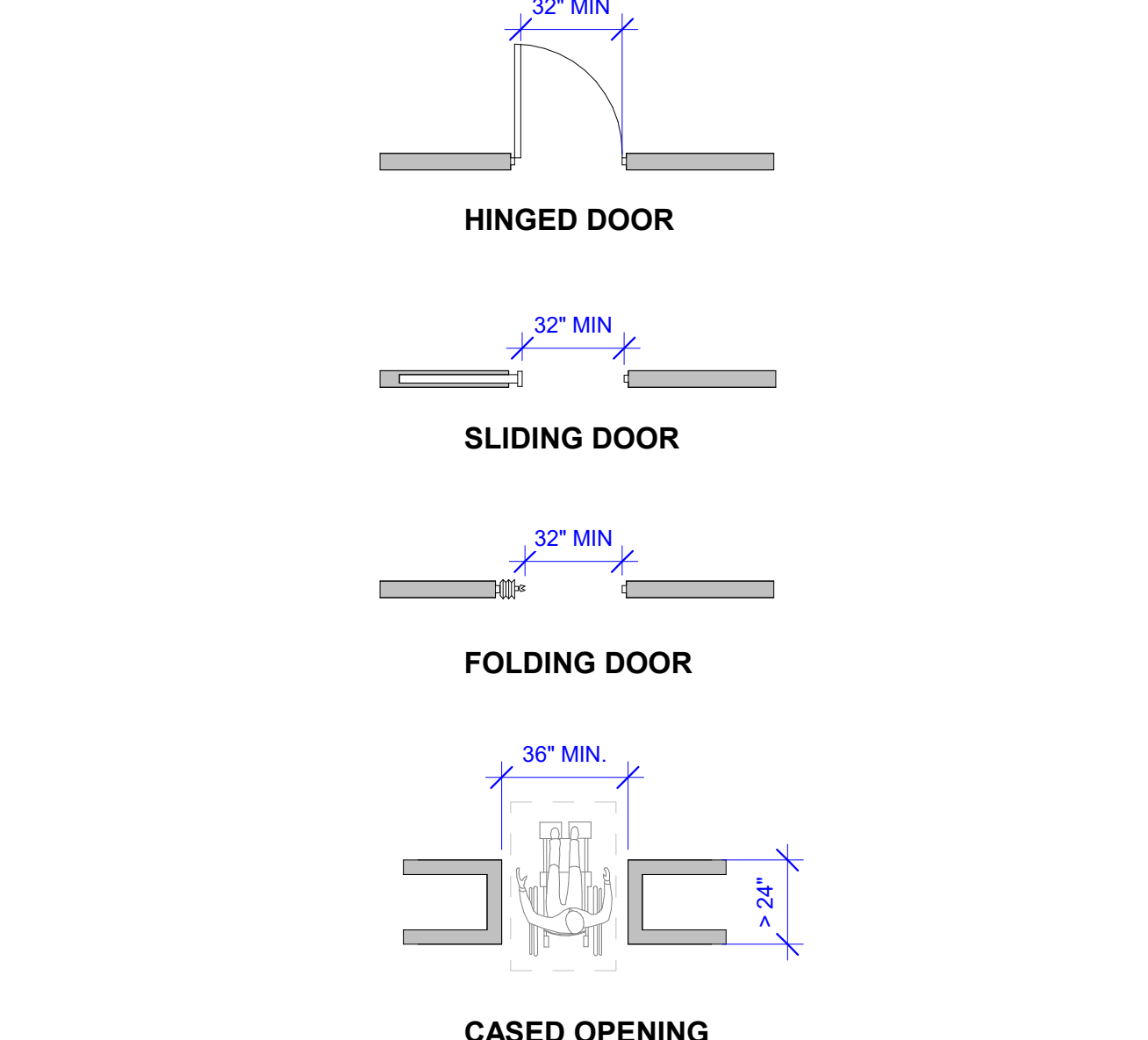
**3 VERTICAL CLEARANCE**  
N.T.S.



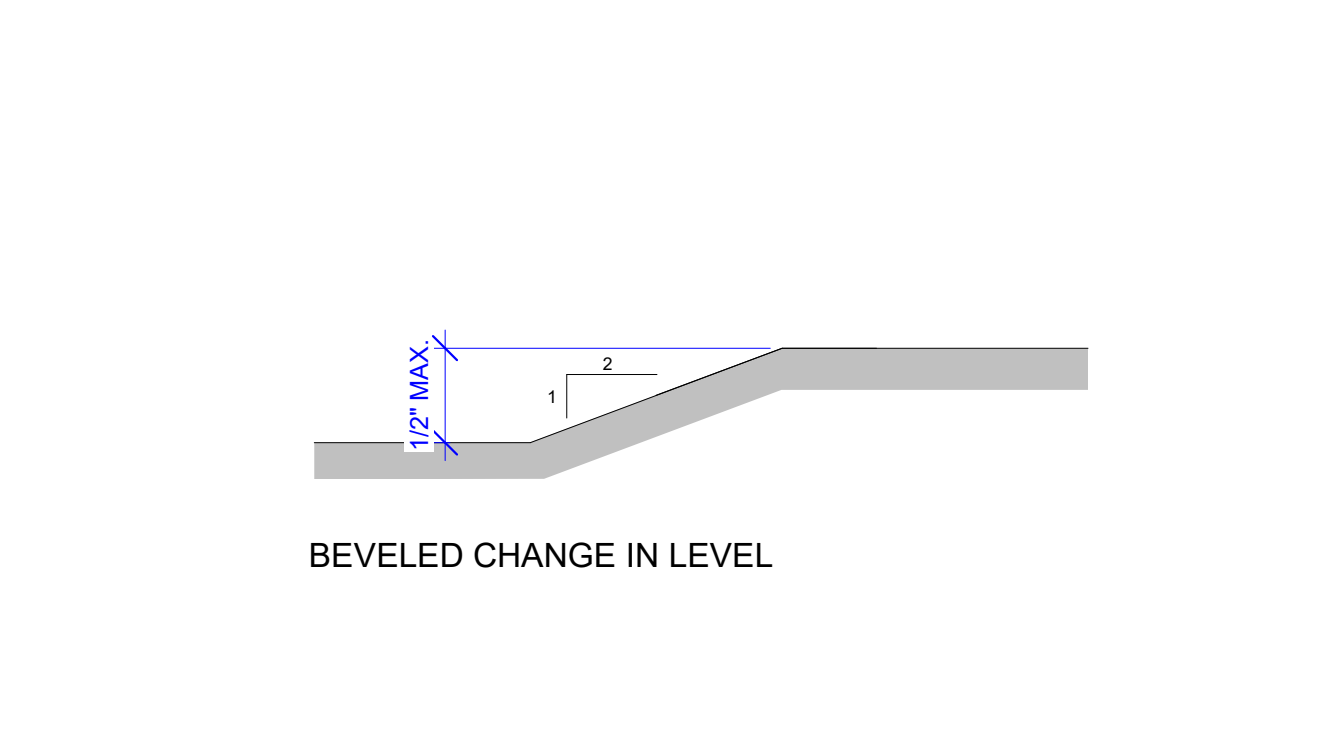
**7 TOE AND KNEE CLEARANCE DIAGRAMS**  
N.T.S.



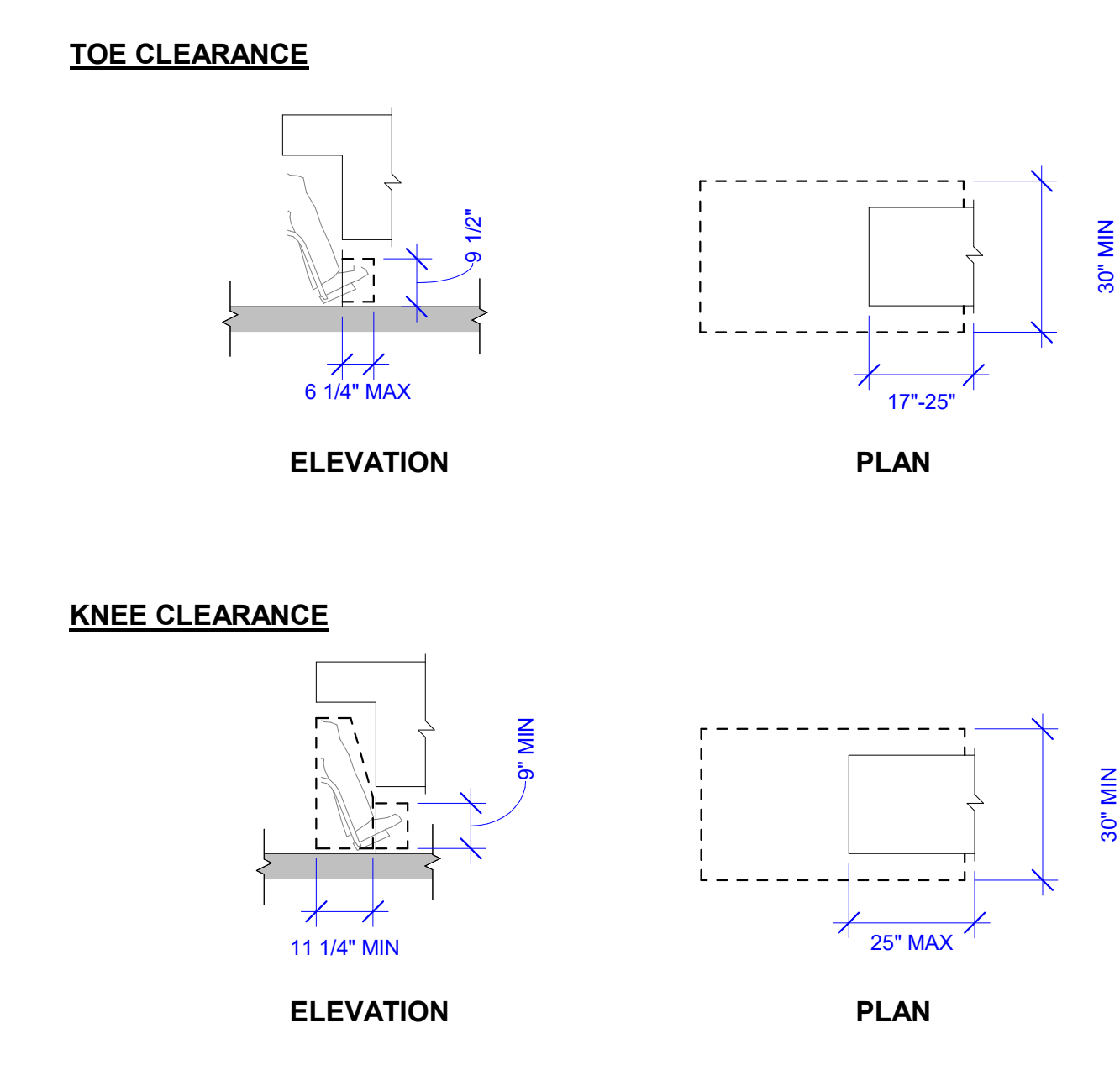
**9 PROTRUDING OBJECTS DIAGRAMS**  
N.T.S.



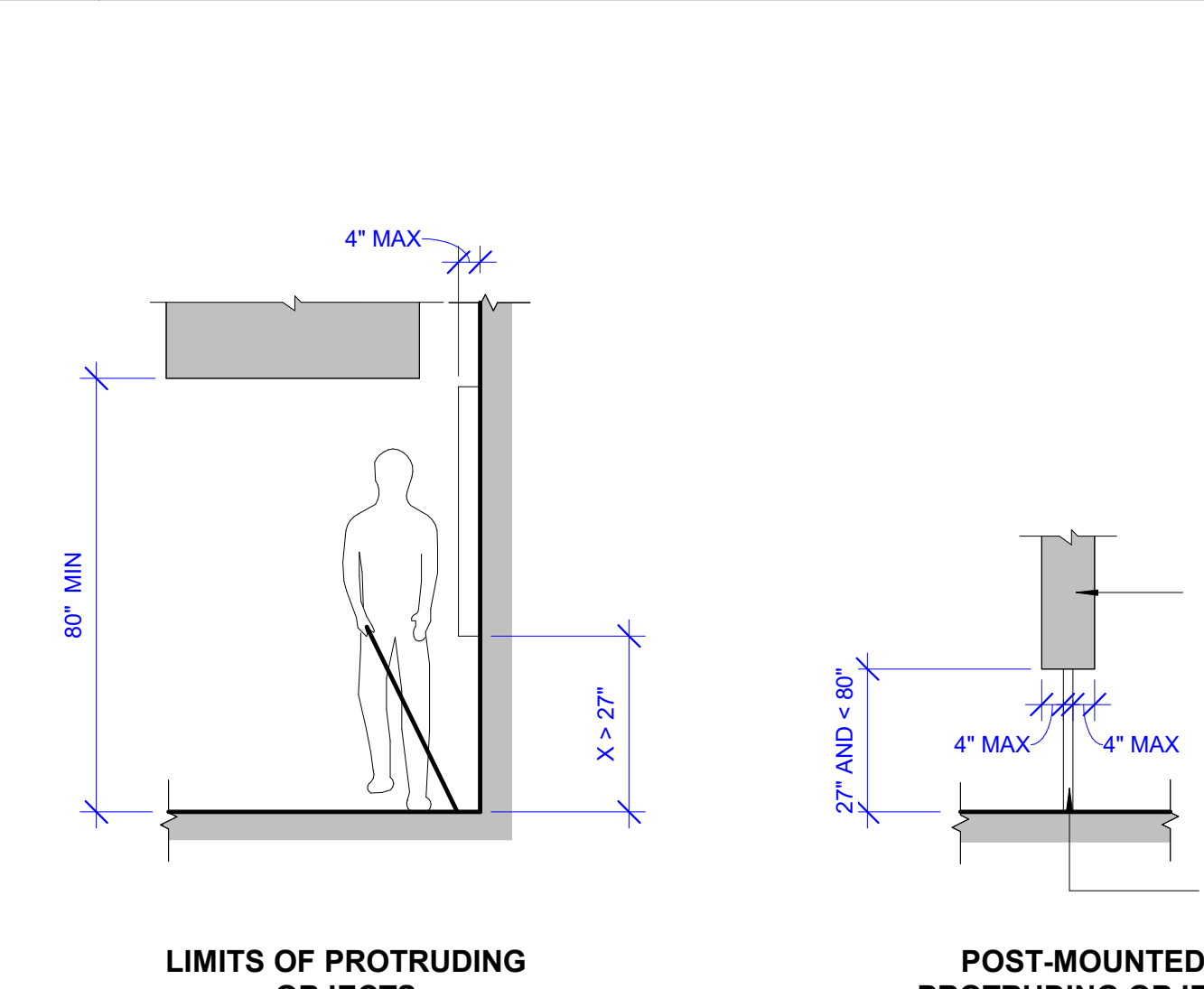
**11 CLEAR WIDTHS OF DOORWAYS**  
N.T.S.



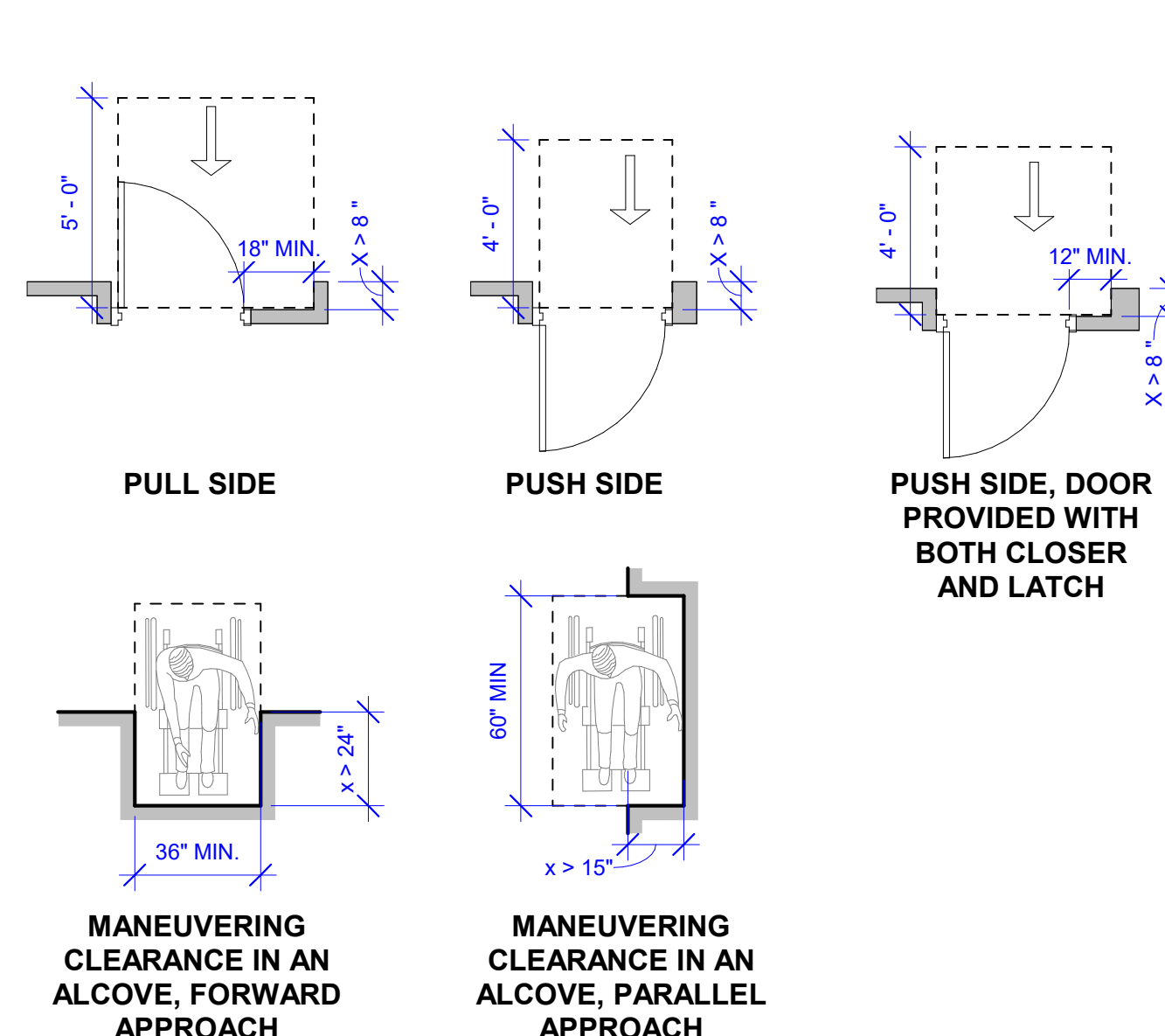
**4 CHANGE OF LEVEL ON ACCESSIBLE ROUTE**  
N.T.S.



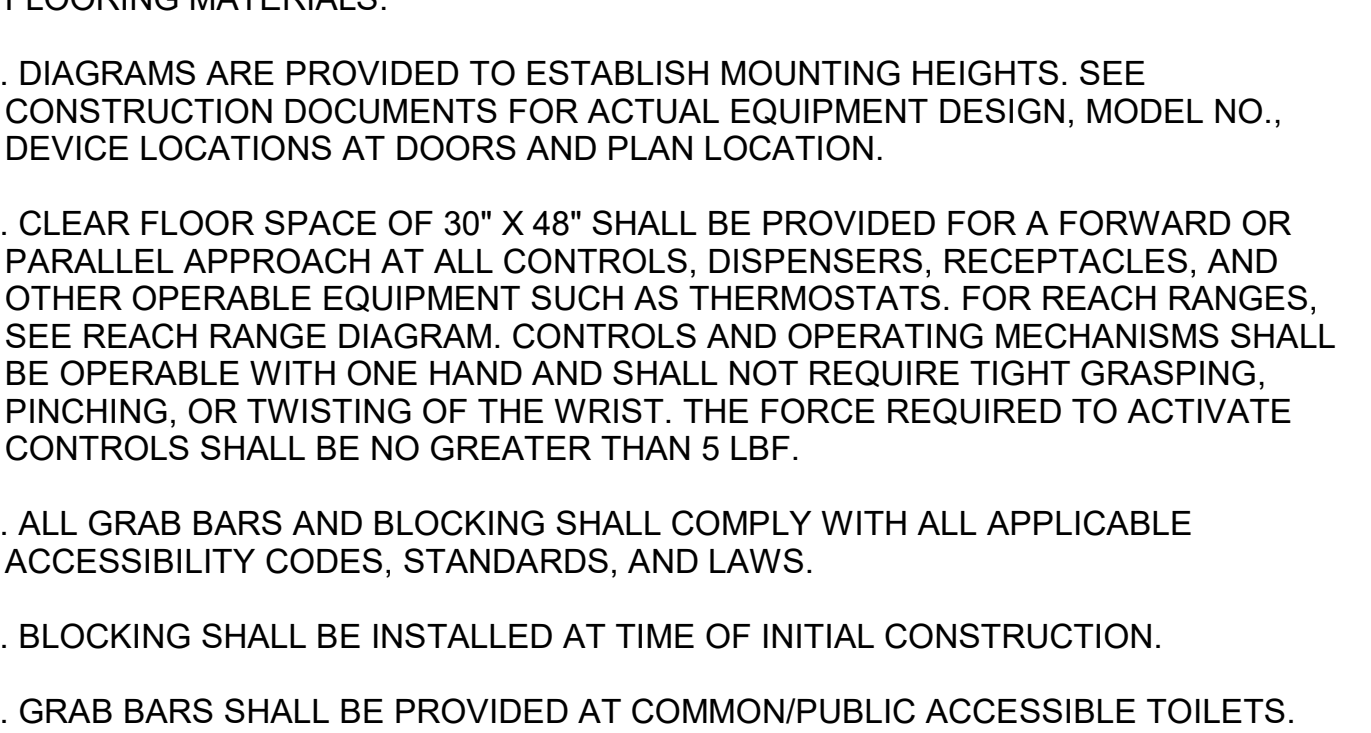
**9 PROTRUDING OBJECTS DIAGRAMS**  
N.T.S.



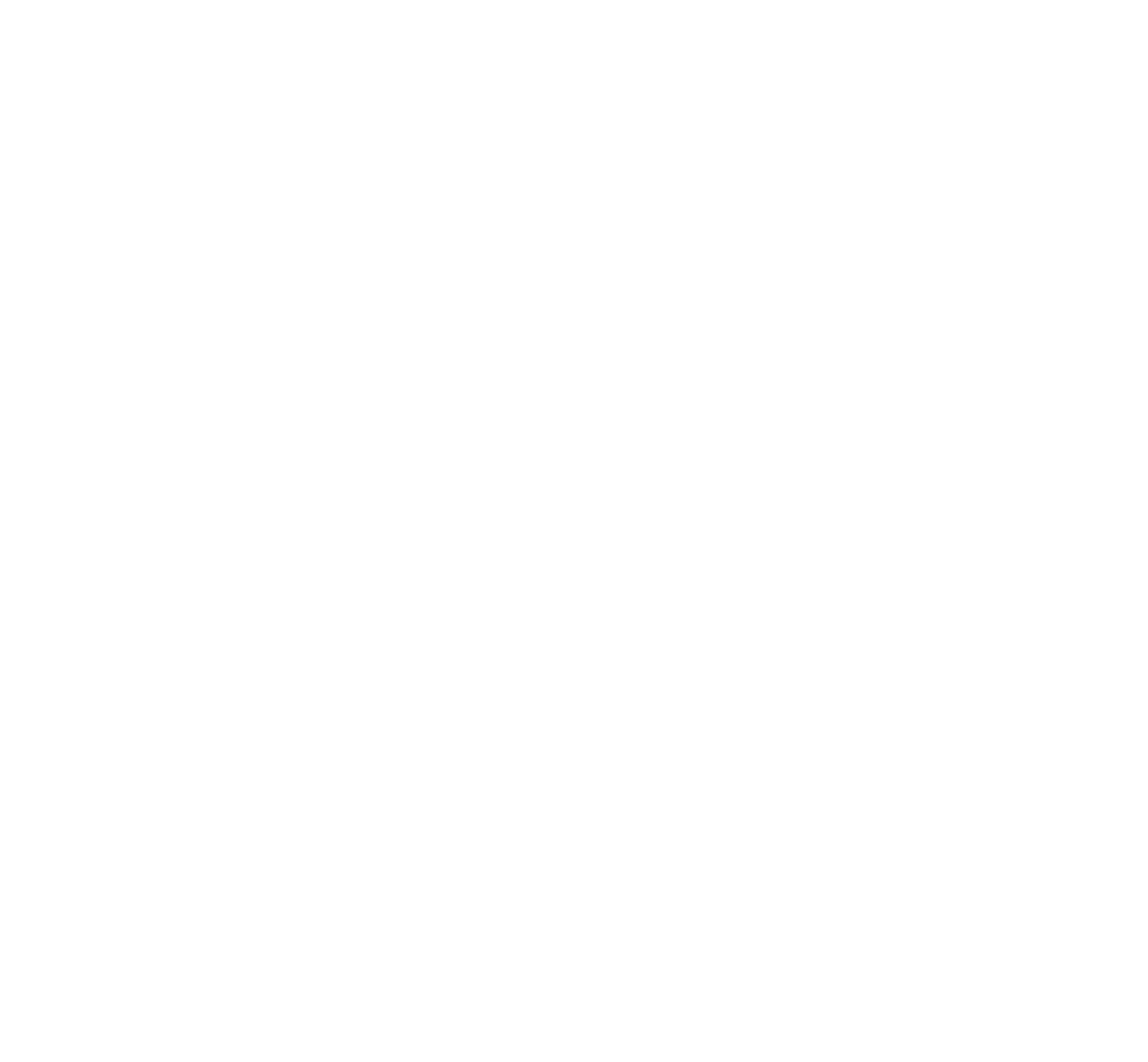
**9 PROTRUDING OBJECTS DIAGRAMS**  
N.T.S.



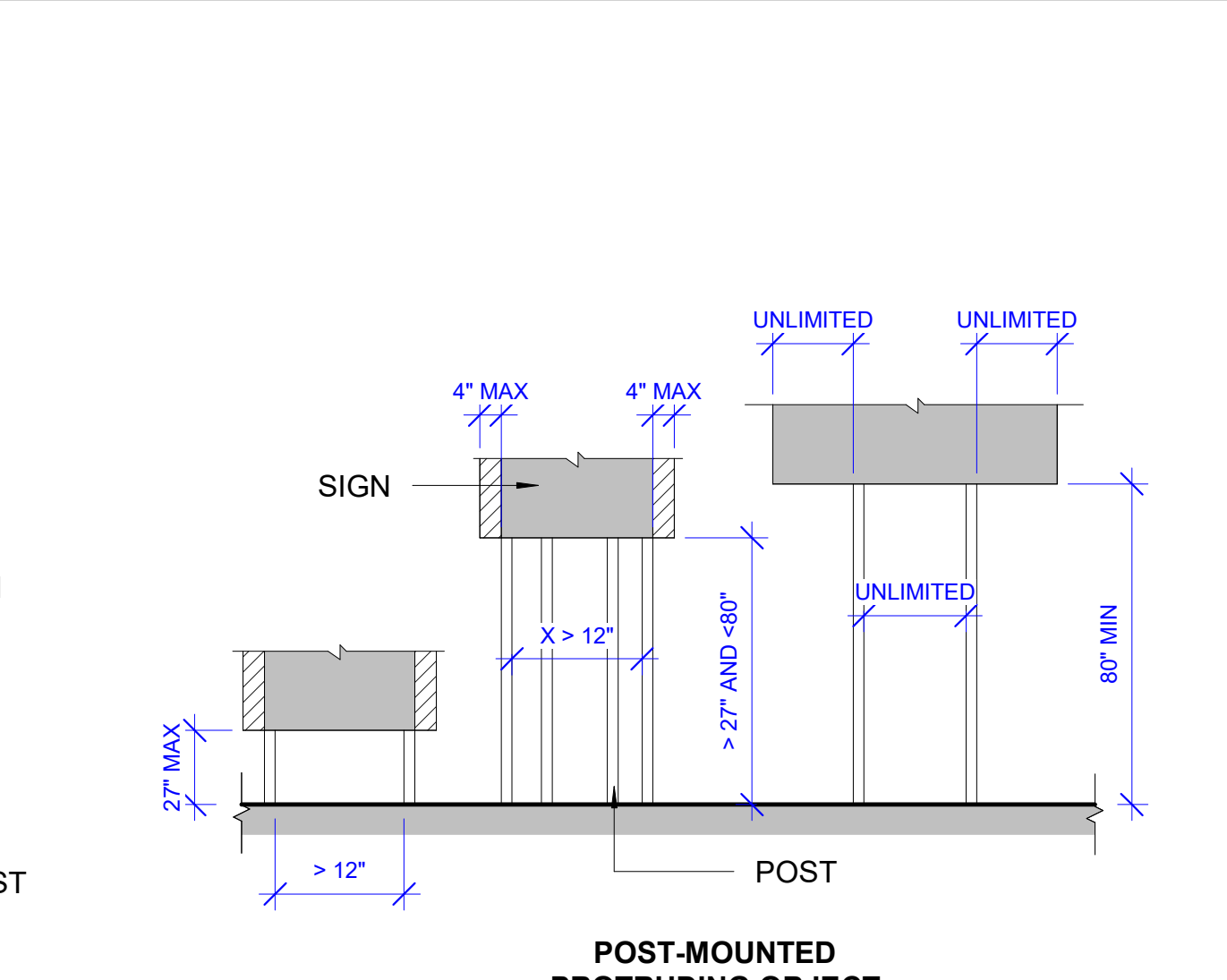
**12 DOORS IN ALCOVE**  
N.T.S.



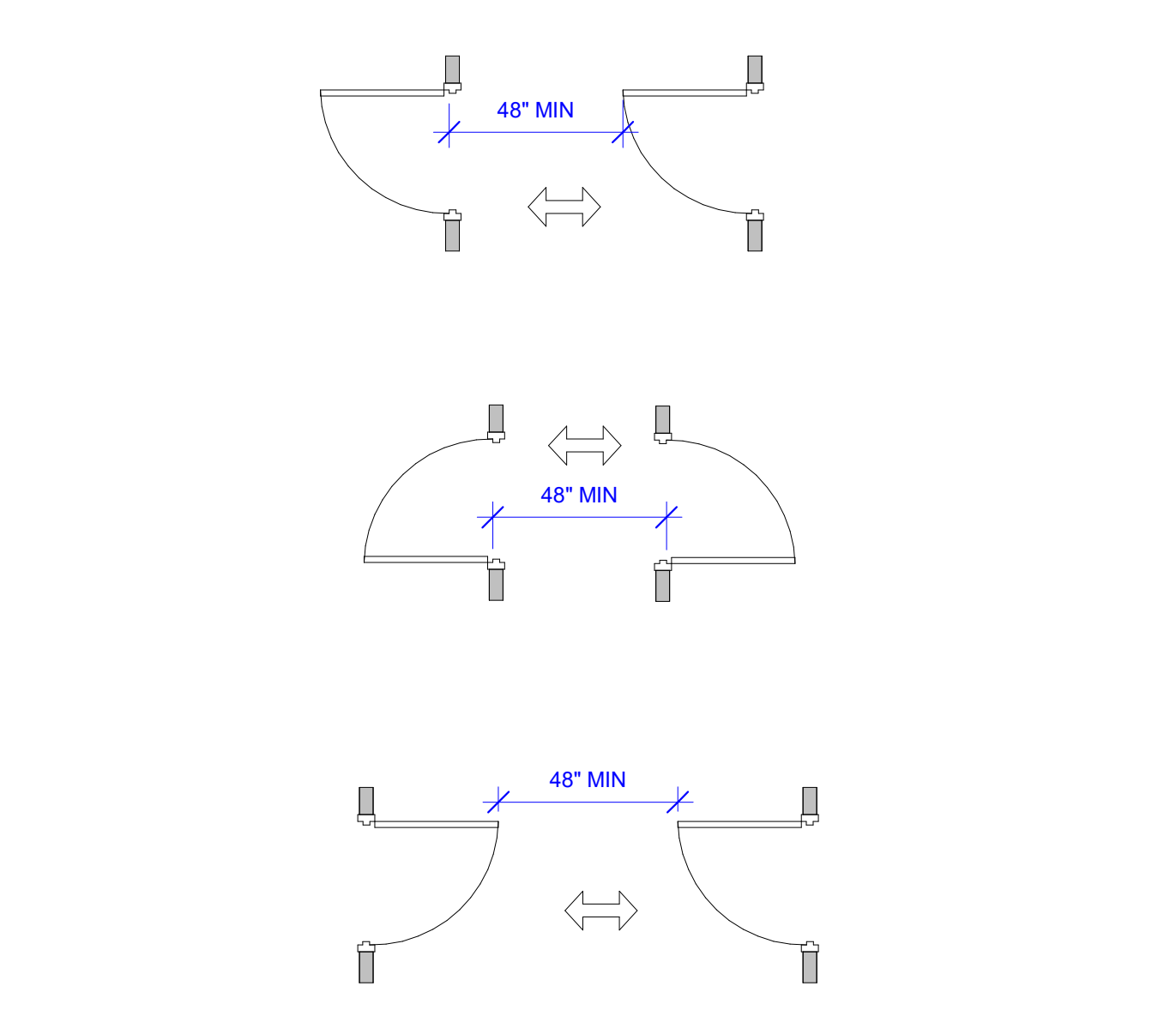
**12 DOORS IN ALCOVE**  
N.T.S.



**13 DOORS IN SERIES**  
N.T.S.



**13 DOORS IN SERIES**  
N.T.S.



**13 DOORS IN SERIES**  
N.T.S.

**ADA GENERAL NOTES**

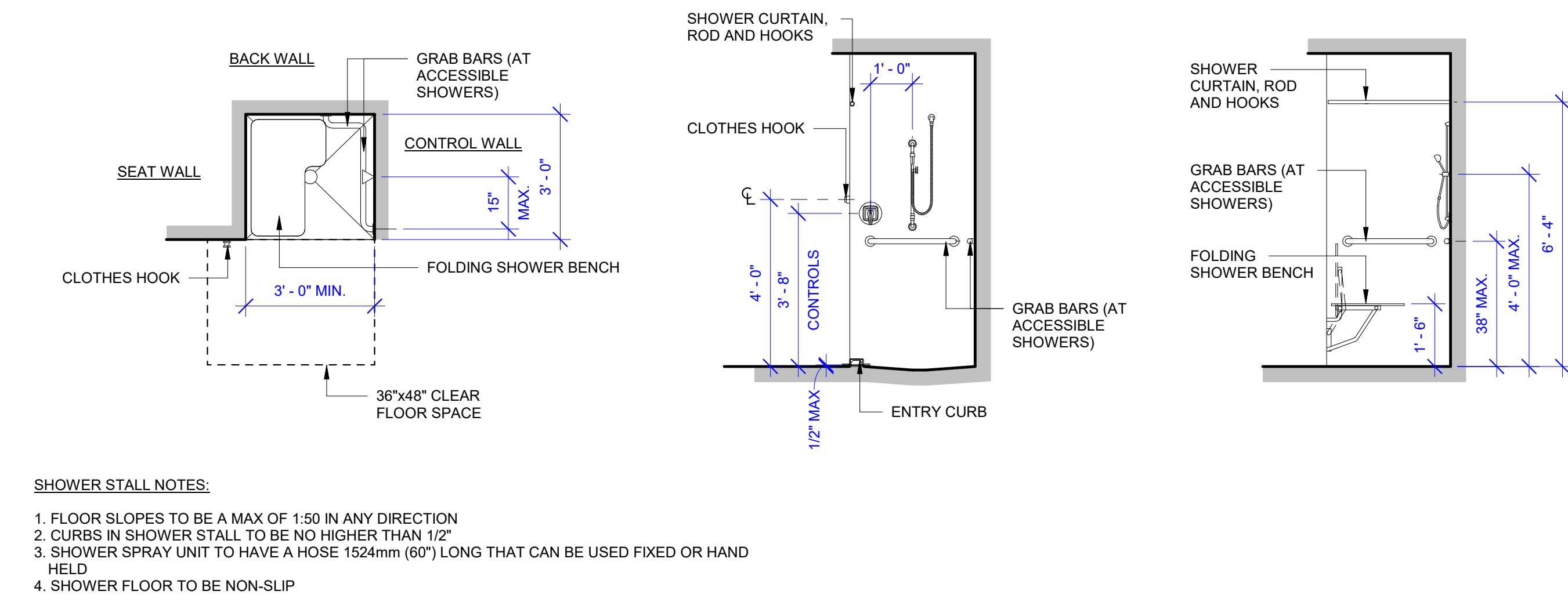
- VERTICAL DIMENSIONS FOR BUILT-IN ACCESSORIES, CASEWORK, COUNTERS, ELECTRICAL DEVICES, ELEMENTS, FEATURES, HARDWARE, PLUMBING FIXTURES, SIGNAGE, THERMOSTATS, ETC. REQUIRED TO BE IN COMPLIANCE WITH ACCESSIBILITY LAWS AND STANDARDS SHALL BE MEASURED FROM TOP OF FINISH FLOORING MATERIALS.
- DIAGRAMS ARE PROVIDED TO ESTABLISH MOUNTING HEIGHTS. SEE CONSTRUCTION DOCUMENTS FOR ACTUAL EQUIPMENT DESIGN, MODEL NO., DEVICE LOCATIONS AT DOORS AND PLAN LOCATION.
- CLEAR FLOOR SPACE OF 30" X 48" SHALL BE PROVIDED FOR A FORWARD OR PARALLEL APPROACH AT ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SUCH AS THERMOSTATS. FOR REACH RANGES, SEE REACH RANGE DIAGRAM. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.
- ALL GRAB BARS AND BLOCKING SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES, STANDARDS, AND LAWS.
- BLOCKING SHALL BE INSTALLED AT TIME OF INITIAL CONSTRUCTION.
- GRAB BARS SHALL BE PROVIDED AT COMMON/PUBLIC ACCESSIBLE TOILETS.
- GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.
- GRAB BARS SHALL NOT ROTATE WITHIN THE FITTINGS.
- STRUCTURAL STRENGTH OF MATERIALS, FASTENERS, MOUNTING DEVICES, AND SUPPORTING STRUCTURES SHALL RESIST A SINGLE FORCE OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICES, OR SUPPORTING STRUCTURES.

**PROJECT TEAM**

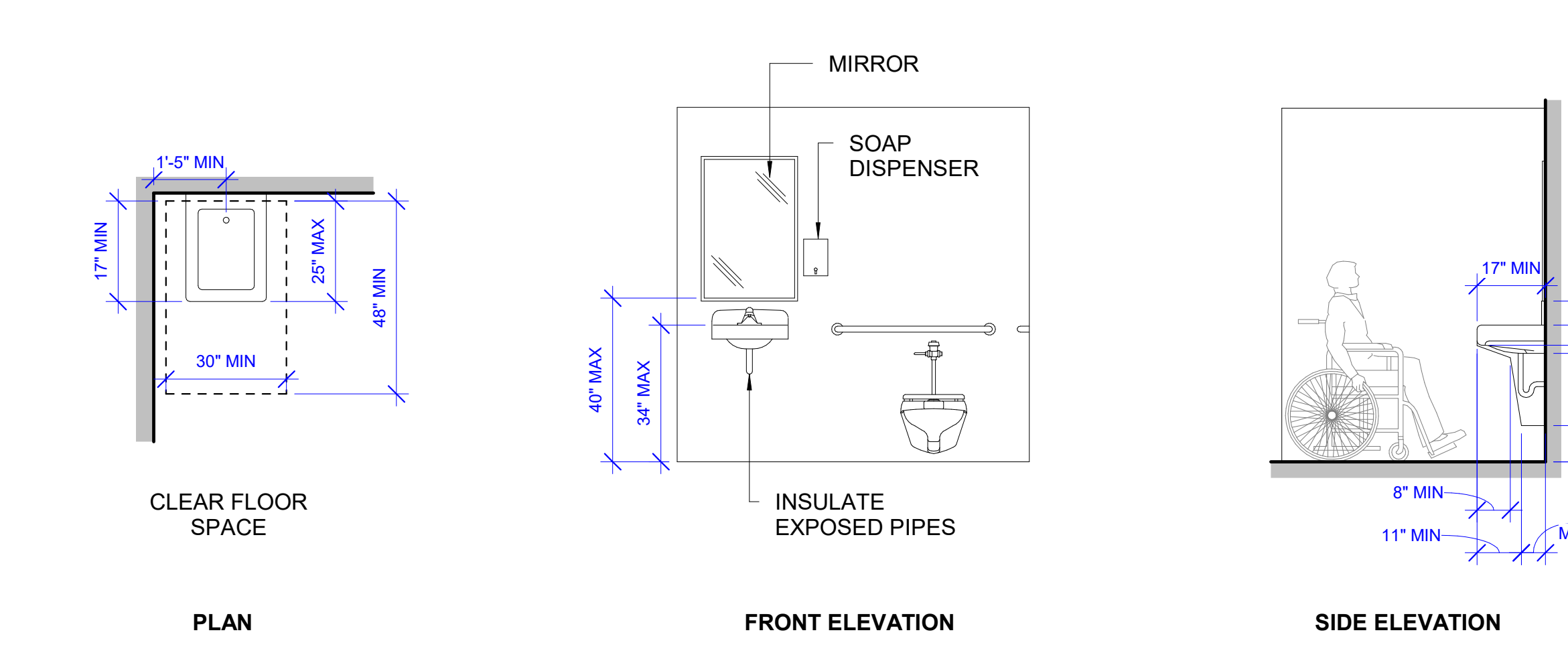
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

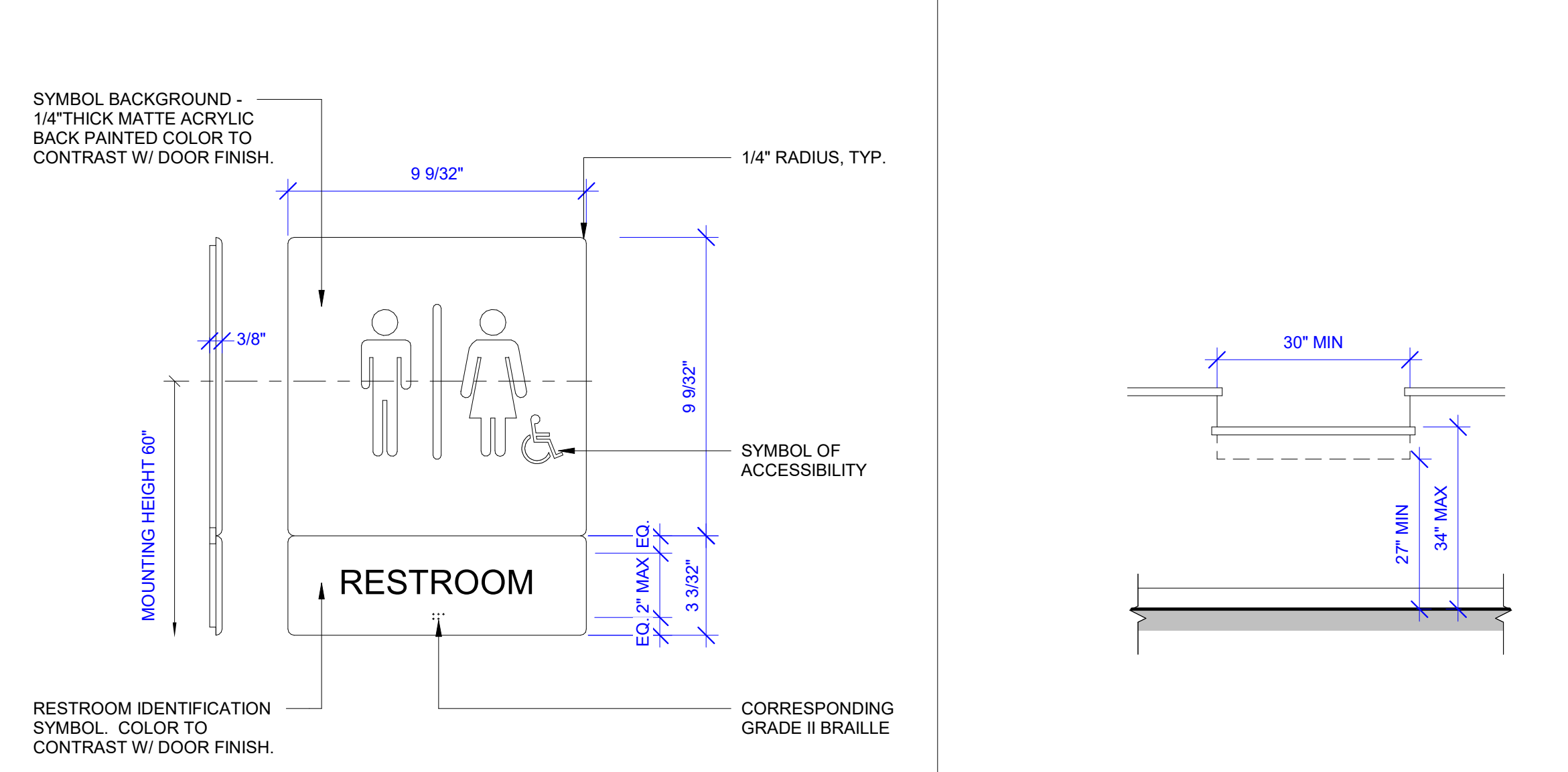
**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368



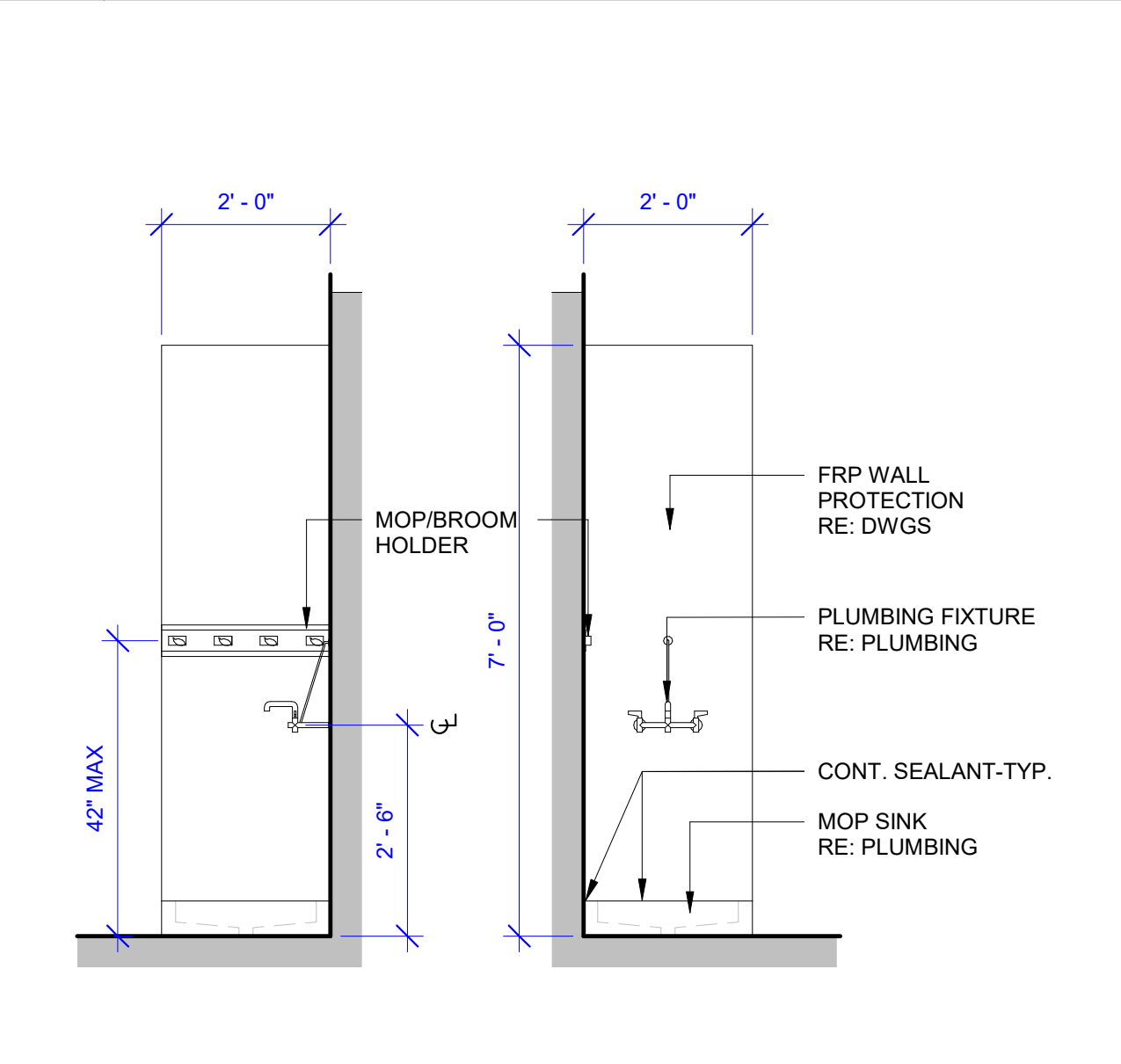
**1 ACCESSIBLE SHOWER STALL**  
N.T.S.



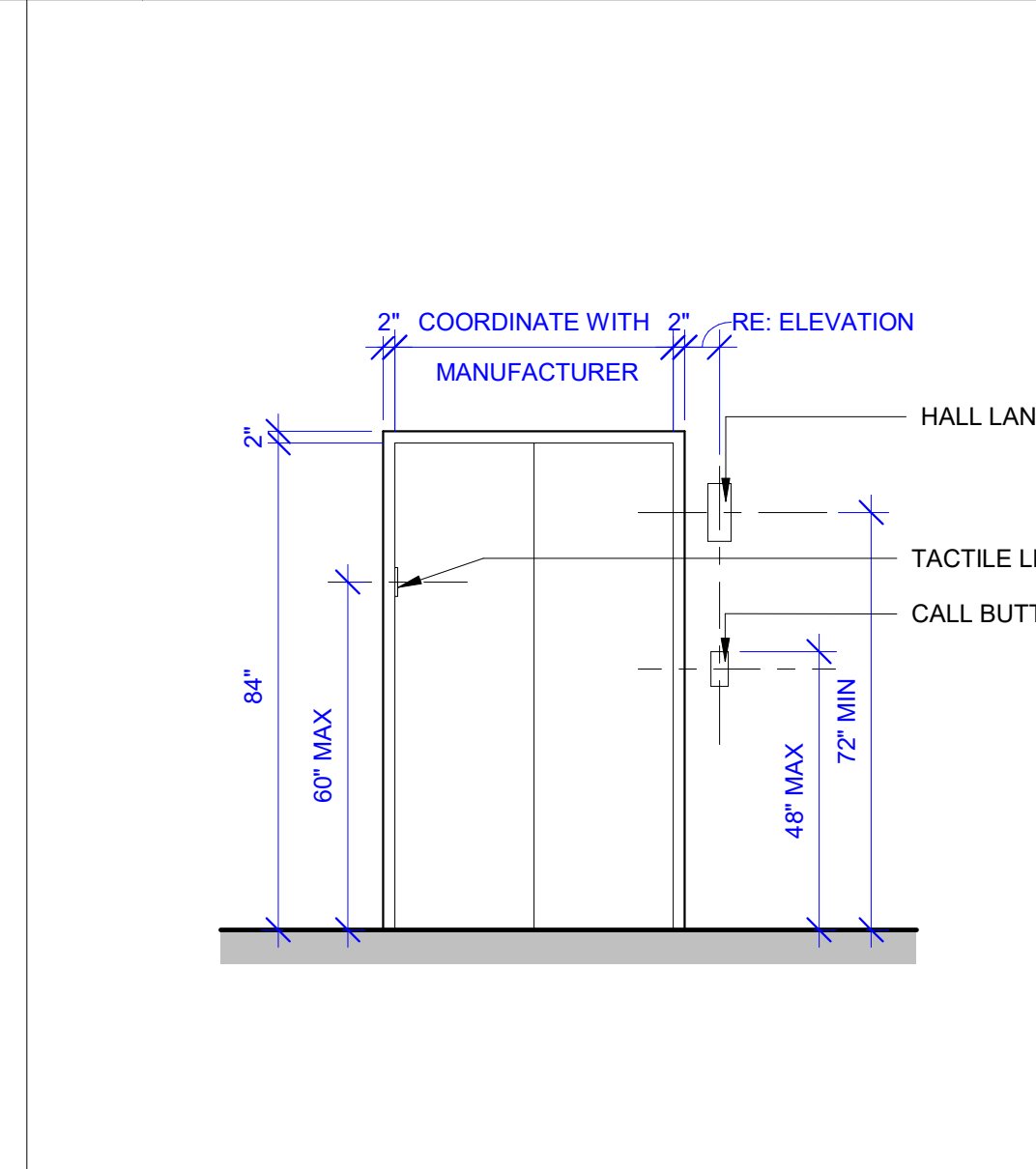
**2 LAVATORY CLEARANCE**  
N.T.S.



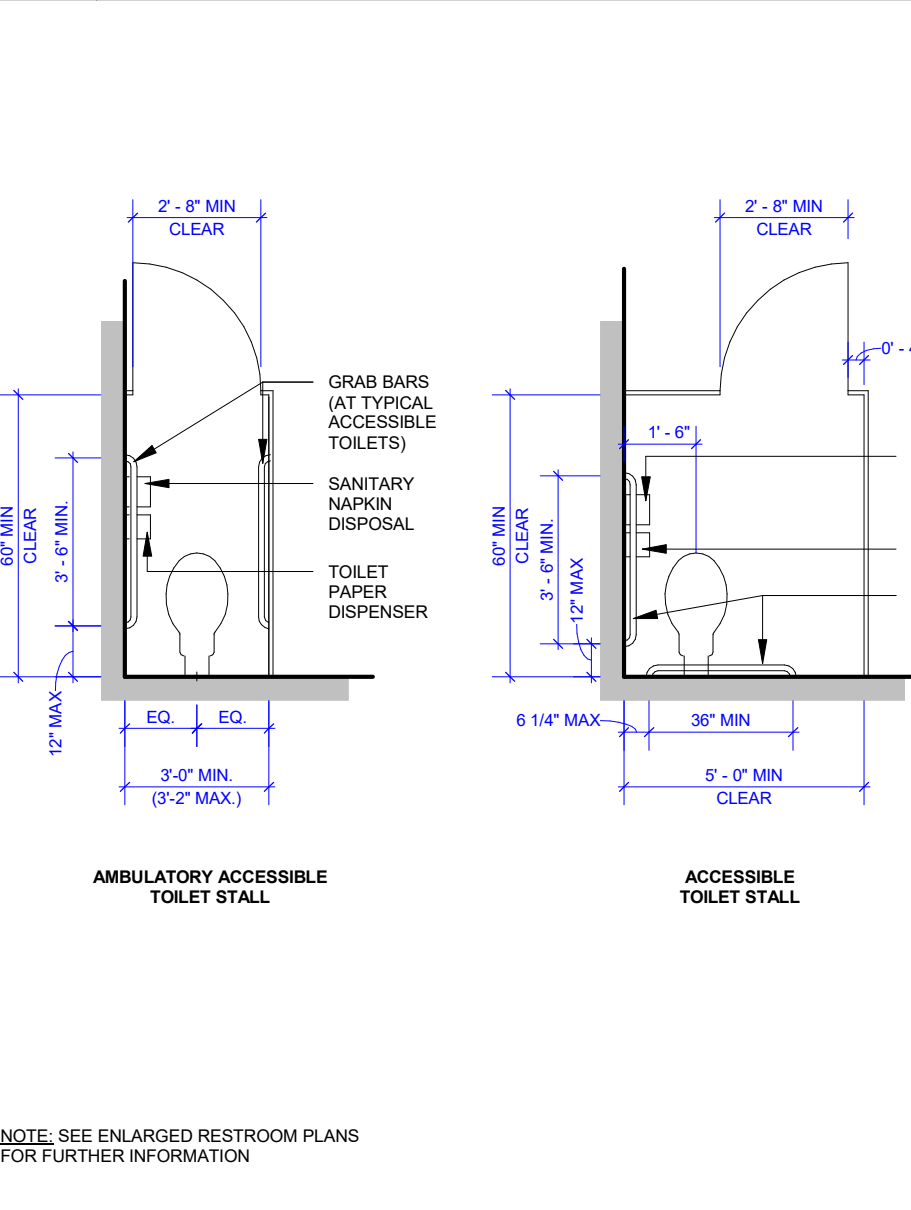
**4 MEN / WOMEN RESTROOM MOUNTED SIGNAGE**  
N.T.S.



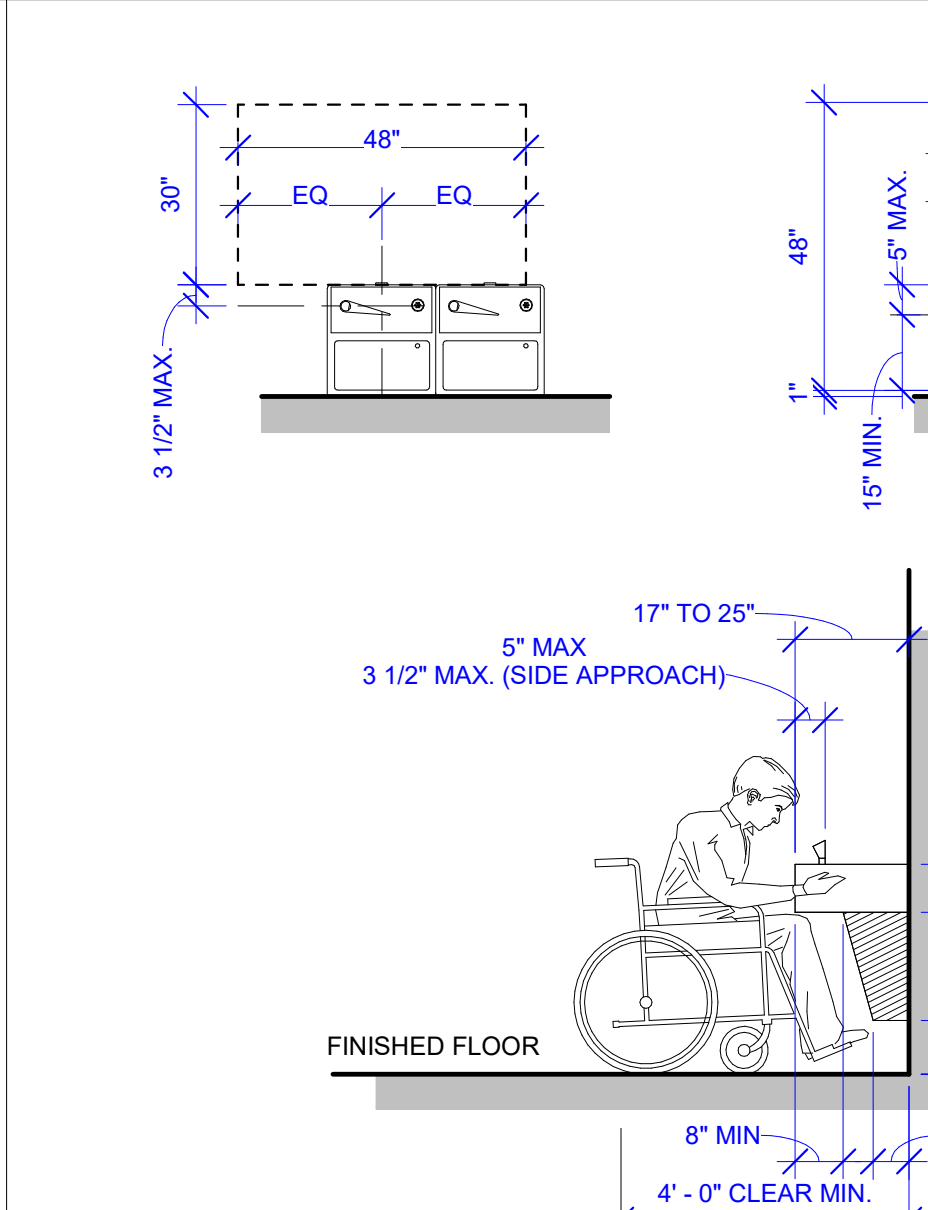
**5 MINIMUM CLEARANCE FOR COUNTER**  
N.T.S.



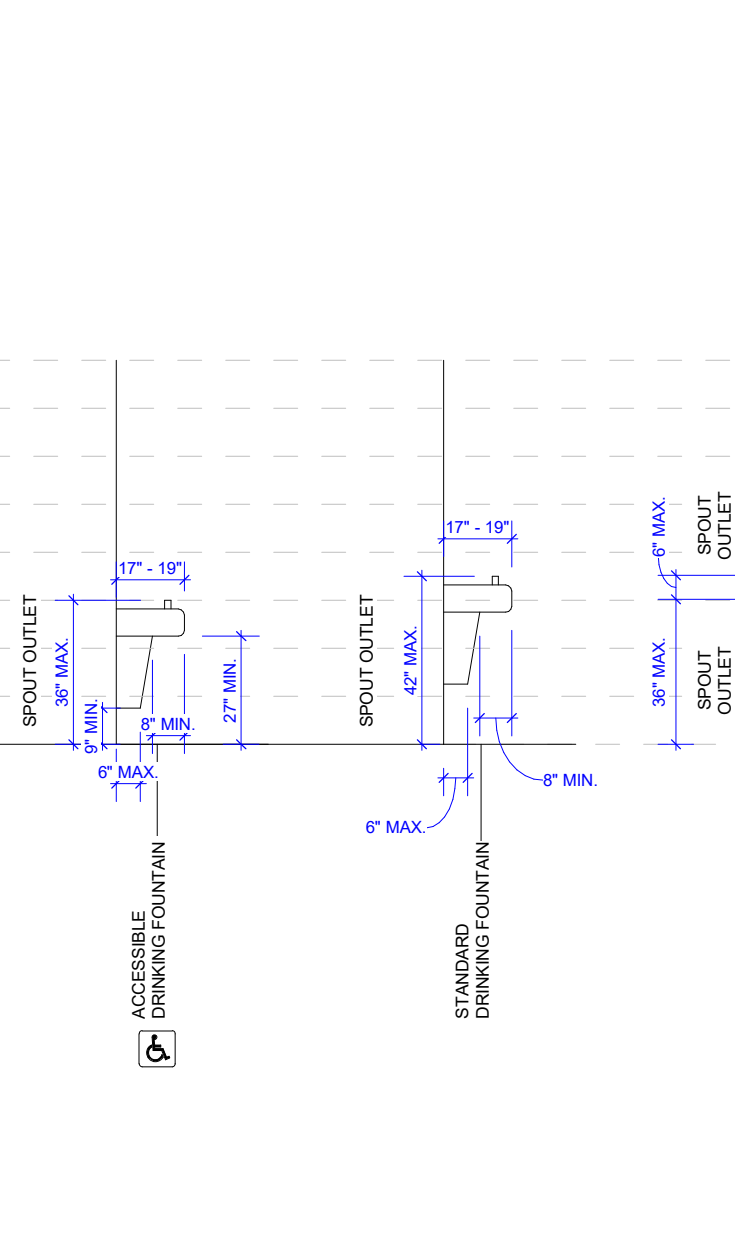
**3 WALL MOUNTED ROOM SIGNAGE**  
N.T.S.



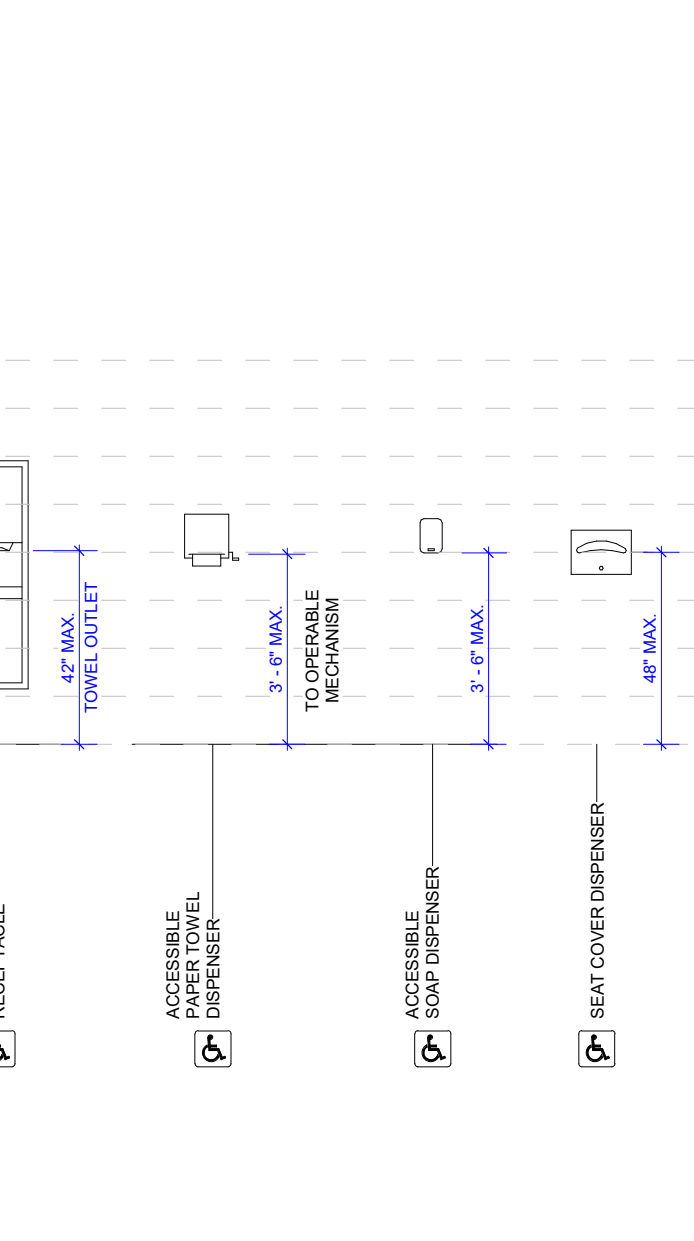
**7 DRINKING FOUNTAIN GUIDELINE**  
N.T.S.



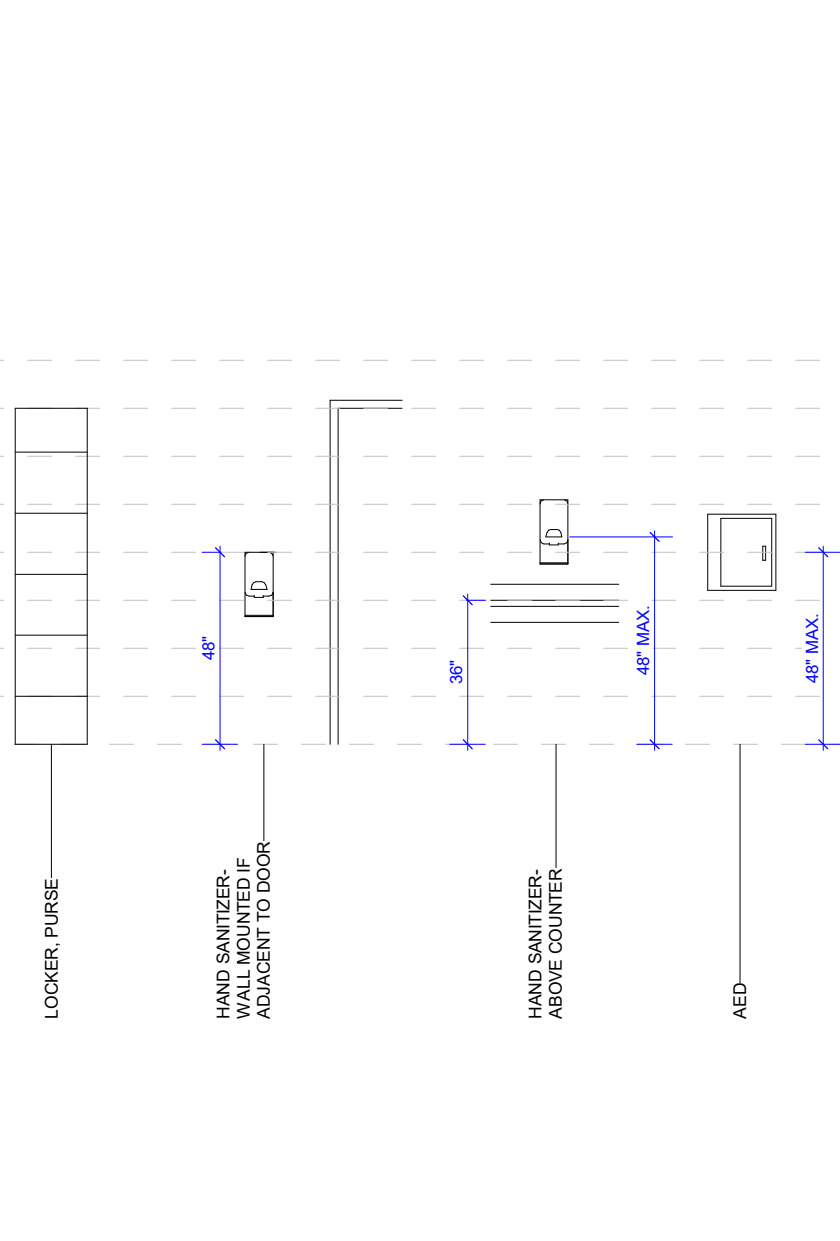
**8 TYP CUSTODIAL CLOSET**  
N.T.S.



**9 TYP ELEVATOR DOOR**  
N.T.S.



**10 MISC MOUNTING HEIGHTS**  
N.T.S.

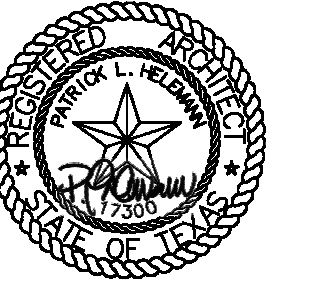


**11 TYP. MOUNTING HEIGHT**  
N.T.S.



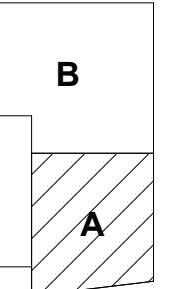
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

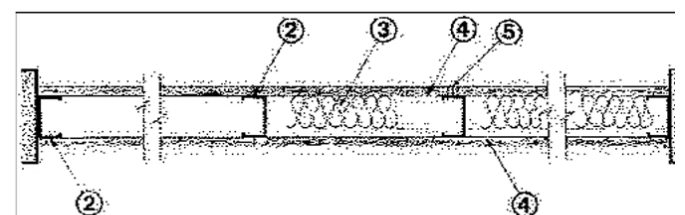
24017

**DATE**

05/30/24

**ADA INFORMATION**

Design No. U465  
December 21, 2004  
Nonbearing Wall Rating - 1 HR.



1. **Floor and Ceiling Runners** - (not shown) - Channel shaped runners, 5-8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
2. **Steel Stud** - Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG galv steel spaced 24 in. OC max.
3. **Batts and Blankets\*** - (Optional) - Mineral wool or glass fiber bats partially or completely filling stud cavity.  
See Batts and Blankets (BZZ) category for names of Classified companies.

3A. **Fiber, Sprayed\*** - As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft<sup>3</sup>. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft<sup>3</sup>.

U.S. GREENFIBER I.L.C. - Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)  
3B. **Fiber, Sprayed\*** - As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NEWWOOL CO INC. - Cellulose Insulation  
4. **Gypsum Board\*** - 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to trim (resilient channels) or 6A (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO. - Types AG-C, AGX-1, AGX-7  
BEIJING NEW BUILDING MATERIALS CO LTD. - Type BHX-1  
BPE AMERICA INC. - Types 1, EGRG, ProRoC Type X, ProRoC Type C  
BFB CANADA INC. - ProRoC Type C, ProRoC Type X or ProRoC Type Abuse-Resistant  
CANADIAN GYPSUM COMPANY - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX  
G-P GYPSUM CORP, SUB OF  
GEORGIA-PACIFIC CORP. - Types 5, 9, C, DAP, DD, DA, EGG, DS, GFSB  
LAFARGE NORTH AMERICA INC. - Types LGFC2, LGFC2A, LGFC, LGFCa, LGFC-C, LGFC-C/A  
NATIONAL GYPSUM CO. - Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5  
PARCO GYPSUM, DIV OF  
PACIFIC COAST BUILDING PRODUCTS INC. - Type PG-C or PG-9  
PANEL KEY S.A. - Type PRX  
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD. - Type EX-1  
STANDARD GYPSUM I.L.C. - Type SG-C  
TEMPLE-INLAND FOREST PRODUCTS CORP. - Type TG-C  
UNITED STATES GYPSUM CO. - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX  
USG MEXICO S A DE CV - Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX

4A. **Gypsum Board\*** - (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or beveled. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically.  
CANADIAN GYPSUM COMPANY - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX  
UNITED STATES GYPSUM CO. - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX  
USG MEXICO S A DE CV - Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX

4B. **Gypsum Board\*** - (As an alternate to Items 4 or 4A) - Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.  
CANADIAN GYPSUM COMPANY - Types AR, IP-AR  
UNITED STATES GYPSUM CO. - Types AR, IP-AR  
USG MEXICO S A DE CV - Types AR, IP-AR

5. **Joint Tape and Compound** - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 1/2 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer board. Joints reinforced.

6. **Resilient Channel** - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 panhead steel screws.

- 6A. **Steel Framing Members (Not Shown)\*** - As an alternate to Item 3, furring channels and resilient sound isolation clip as described below:
- a. **Furring Channels** - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
  - b. **Steel Framing Members\*** - Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC, and secured to studs with 1-5/8 in. wide or hot bond Type S steel screw through the center grommet. Furring channels are friction fitted into clips.  
PAC INTERNATIONAL INC. - Type RSK-1.



**ELEMENT ARCHITECTS + interiors**

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

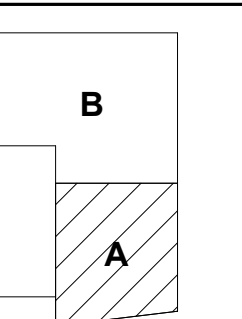
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**



06/25/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

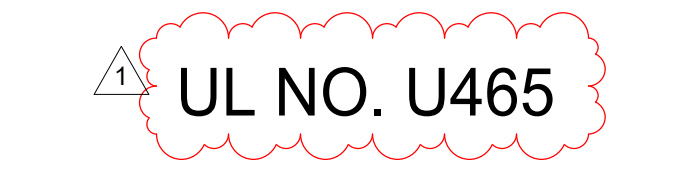
6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

24017

**DATE**

06/25/24



G201





## UL Product IQ®



Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

[See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States](#)
[Design Criteria and Allowable Variances](#)
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)
[Design Criteria and Allowable Variances](#)

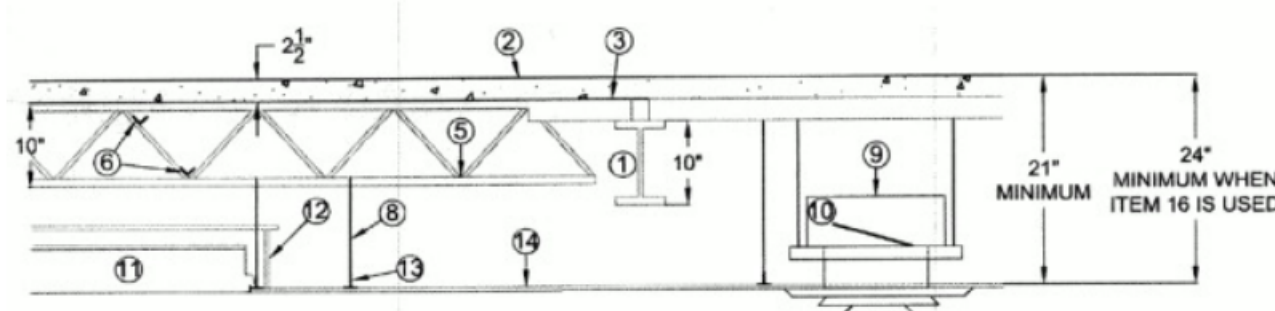
## Design No. G041

November 21, 2022

**Restrained Assembly Rating - 1-1/2 and 2 Hr. (See Item 13A)****Unrestrained Assembly Ratings - 1 and 2 Hr. (See Item 13A)****Unrestrained Beam Ratings - 1 and 2 Hr. (See Item 13A)**

**This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7.**

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

1. **Beam** — W10X22 min size.2. **Normal Weight Concrete** — Carbonate or siliceous aggregate, 145 ± 3 pcf unit weight 3000 psi min compressive strength.

3. **Metal Lath** — 3/8 in. rib, 3.4 lb., per sq yd., expanded steel. Tied to each joist at every other rib and midway between joists at side lap with No. 18 SWG galv. steel wire.

3A. **Steel Floor or Form Units\*** — (Not shown) As an alternate to Item 3. Composite 1-1/2 in. deep, 30, 35 or 36 in. wide, galv steel units. Min gauge is 22 MSG. Welded to supports 12 in. O.C. Adjacent units button-punched, welded or screwed together 36 in. OC max along side joints. The concrete thickness shall be measured to the top plane of the steel deck.

INTSEL STEEL EAST LLC — 36 in. wide Type 1.5\* COMPOSITE/FLOOR.

VULCRAFT, DIV OF NUCOR CORP — Types 1.5VL, 1.5VL1, 1.5RVL1, 1.5SB, 1.5SB1, 1.5SB2, 1.5SB3, 1.5SB4, 1.5SB5, 1.5SB6, 1.5SB7, 1.5SB8, 1.5SB9, 1.5SB10, 1.5SB11, 1.5SB12, 1.5SB13, 1.5SB14, 1.5SB15, 1.5SB16, 1.5SB17, 1.5SB18, 1.5SB19, 1.5SB20, 1.5SB21, 1.5SB22, 1.5SB23, 1.5SB24, 1.5SB25, 1.5SB26, 1.5SB27, 1.5SB28, 1.5SB29, 1.5SB30, 1.5SB31, 1.5SB32, 1.5SB33, 1.5SB34, 1.5SB35, 1.5SB36, 1.5SB37, 1.5SB38, 1.5SB39, 1.5SB40, 1.5SB41, 1.5SB42, 1.5SB43, 1.5SB44, 1.5SB45, 1.5SB46, 1.5SB47, 1.5SB48, 1.5SB49, 1.5SB50, 1.5SB51, 1.5SB52, 1.5SB53, 1.5SB54, 1.5SB55, 1.5SB56, 1.5SB57, 1.5SB58, 1.5SB59, 1.5SB60, 1.5SB61, 1.5SB62, 1.5SB63, 1.5SB64, 1.5SB65, 1.5SB66, 1.5SB67, 1.5SB68, 1.5SB69, 1.5SB70, 1.5SB71, 1.5SB72, 1.5SB73, 1.5SB74, 1.5SB75, 1.5SB76, 1.5SB77, 1.5SB78, 1.5SB79, 1.5SB80, 1.5SB81, 1.5SB82, 1.5SB83, 1.5SB84, 1.5SB85, 1.5SB86, 1.5SB87, 1.5SB88, 1.5SB89, 1.5SB90, 1.5SB91, 1.5SB92, 1.5SB93, 1.5SB94, 1.5SB95, 1.5SB96, 1.5SB97, 1.5SB98, 1.5SB99, 1.5SB100.

4. **Welded Wire Fabric** — (Not Shown) Min. 6 x 6 in., No 8/8 SWG, or as required by the latest ACI code.

5. **Steel Joists** — Type 10K1 min size, spaced 24 in. O.C. welded to end supports.

6. **Bridging** — Angle iron with 1-1/4 in. legs by 1/8" thick welded to top and bottom chord of each joist as per joist manufacturer's instructions.

7. **Cold Rolled Channels** — (Not Shown) Min 1/8 in. thick cold-rolled steel channels, 1-1/2 in. deep with 1/2 in. flanges. Two channels tied together back to back with 18 SWG galv steel wire placed on and wire-tied to top of joist lower chord with min 16 SWG galv steel wire, spaced as required to provide attachment provision for ceiling hanger wires between steel joists.

8. **Hanger Wire** — No. 12 SWG galv steel wire, twist-tied to bottom chord of joists or cold-rolled steel channels. Hanger wires spaced 48 in. OC along main runners. Hanger wires also to occur at all four corners of light fixtures, at midspan of cross tees adjacent to light fixtures and air duct outlets, and adjacent to each main runner splice. Hanger wire twist tied with minimum 3 twists.

9. **Air Duct** — No. 20 gauge galv. steel. Total area of duct opening not to exceed 54 sq in. per each 100 sq ft. of ceiling area. Area of individual duct opening not to exceed 113 sq in. Max dimension of opening 12 in. Duct support spaced not more than 48 in. O.C. Duct supported by a trapeze comprising of 1/8 in. dia. steel wire rope and Unistrut channel. Wire rope suspended from the bottom chord of the joist by a beam clip or looped around the bottom chord of the joist or the Cold Rolled Channels and tied together by a wire rope clamp. The wire rope at the bottom looped through the web openings of a 22 in. long, 1-5/8 in. by 1-5/8 in. Unistrut channel, and the wire rope tied together with a wire rope clamp. Duct placed on the Unistrut channel and secured to Unistrut channel with No. 10 by 3/4 in. long self-drilling hex head steel screws. Duct opening protected with two layers of 1-1/4 in. thick mineral wool insulation placed around the opening at the bottom of the duct and on the top over the duct opening. Mineral wool insulation to cover the Steel Member Framing cavity around the duct opening.

10. **Damper** — No. 14 MSG galv steel. Protected on both surfaces with 1/16 in. thick ceramic fiber paper and held open with a 160° F fusible link (Bearing the UL Listing Mark). Damper to overlap duct outlet by min 1 in.

11. **Fixtures, Recessed Light** — For Use with Steel Framing Members, (Bearing the UL Listing Mark). Recessed light fixture with NEMA Type F steel housing, 1 by 2 ft., 1 by 4 ft., 2 by 2 ft. or 2 by 4 ft. size. Fixture provided by fixture support steel tee frame, frame to be suspended at the four corners by hanger wires. See Item 8. Size of steel framing member module to be nominally 2 in. wider and longer than the nominal fixture size. Fixtures spaced so their area does not exceed 15.3 sq ft. per each 100 sq ft. of ceiling area. Wired in conformance with the National Electrical Code.

12. **Fixture Protection — Gypsum Board\*** — Gypsum board shall be as per Item 14 when Batts and Blankets are not used, and as per Item 14A when Batts and Blankets Item 16 is used. Cut to form a five sided enclosure, rectangular in cross-section, at least 1-1/2 in. higher than the NEMA Type F light fixture housing (item 11). The fixture protection enclosure is to be installed in the grid module prior to installation of the NEMA Type F light fixture. The fixture protection side and end pieces rest on the web of the cross tees and are wire tied together at the corners with 16 gauge galvanized wire ties. The adjacent pieces at each corner to be tied together at two equally spaced locations. The top piece rests on the top edges of the side and end pieces without mechanical attachment. The dimensions of the fixture protection pieces for the various sizes of NEMA Type F fixtures are tabulated below:

NEMA Type F Fixture Size	1 by 2 ft.	1 by 4 ft.	2 by 2 ft.	2 by 4 ft.

Top Piece, in.	16 x 28	16 x 52	28 x 28	28 x 52
Side Piece, in.	7 x 28	7 x 52	7 x 28	7 x 28
End Piece, in.	7 x 12-1/4	7 x 12-1/4	7 x 24-1/4	7 x 24-1/4

\* Top piece may be formed by narrow width pieces provided the joints between the narrow width pieces are covered by a 6 in. wide piece.

13. **Steel Framing Members\*** — Main runners, cross tees, and wall angles as listed below:

a. **Main Runners** — Nom 12 ft. long, 1-1/2 in. wide face, spaced 4 ft. OC.

b. **Cross Tees** — Nom 4 ft. long, installed perpendicular to the main runners, spaced 24 in. OC. Additional cross tees used at 6 in. from each side of butted gypsum board end joints. When **Batts and Blankets\*** (Item 16) are used, cross tees spaced 16 in. OC, with additional cross tees 8 in. away from each side of butted gypsum board end joints. The cross tees shall be riveted with 1/8 in. dia. rivets to the wall angle and to the main tee where the cross tee does not align with slot in the main tee. When NEMA Type F (Item 11) light fixtures are used, nom 4 ft. long cross tees, installed perpendicular to main runners shall frame the two opposite sides of the light fixture. Additional cross tees shall be used to frame the other two sides of the light fixture.

c. **Wall Angle** — Galv steel angle with 1-1/2 in. legs attached to walls at perimeter of ceiling with fasteners at 16 in. OC. to support steel framing member ends and for screw-attachment of the gypsum board.

**CERTAINTED CORP** — Types DWS12-13-20, DWS4-16-13-20, DWS4-13-20, DWS2-13-20, DWS2-16-13-20 and DWA1.5-1

**CERTAINTED CORP** — Types EZDWS12-13-18, EZDWS4-16-13-18, EZDWS4-13-18, EZDWS2-13-18, EZDWS2-16-13-18 and DWA1.5-1.5

13A. **Alternate Steel Framing Members\*** — (Not Shown) — When Ratings are limited to 1 Hr Unrestrained Assembly Rating and Unrestrained Beam Rating and 1-1/2 Hr Restrained Assembly Rating. When batts and Blankets Item 16 is not used and as an alternate to Items 13a. through 13c - Main runners nom 12 ft long, spaced 72 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. When NEMA Type F (Item 11A) light fixtures are used, nom 6 ft long cross tees installed perpendicular to main runners and spaced nom 14 in., 26 in. or 50 in. OC, dependent upon fixture size and orientation. Nominal 14 in., 26 in. and/or 50 in. cross tees used in combination with the 6 ft long cross tees to create modules to accommodate nom 1 by 2 ft., 1 by 4 ft., 2 by 2 ft and 2 by 4 ft NEMA Type F fixtures. Additional lengths of cross tee to be installed between the 6 ft long cross tees at each end of each nominal 14 in., 26 in. or 50 in. long cross tee forming a light fixture module. Ends of these additional lengths of cross tee are to engage cross tee slots at end of fixture and are to be riveted to nom 6 ft long cross tee at opposite end. Additional short lengths of cross tee to be installed perpendicular to main runners near center of nom 50 in. long cross tee on each side of 1 by 4 ft or 2 by 4 ft light fixture which is installed with its long dimension parallel with the main runners. Ends of these additional short lengths of cross tee are to engage rout of main runner at one end and are to be riveted to nom 50 in. long cross tee at opposite end. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

**CERTAINTED CORP** — Types DWS12-13-20, DWS4-16-13-20, DWS4-13-20, DWS2-13-20, DWS2-16-13-20 and DWA1.5-1

14. **Gypsum Board\*** — To be used with Item 13 when **Batts and Blankets\*** (Item 16) are not used. 1/2 in. thick, 4 ft. wide by 10 ft. long with the long dimension parallel to the main runners; sheets fastened to cross tees with screws spaced 8 in. OC adjacent to end joints with additional screws located 1-1/2 in and 4 in. from the sides. Screws spaced 12 in. OC along each cross tee in the field with the first and last screw spaced max. 6 in. from the side of the Gypsum Board. End joints to be staggered 4 ft. and to occur over cross tees. Additional cross tees to be located 6 in. from and on each side of the end joints. Gypsum board sheets screw attached to leg of wall angle with drywall screws spaced 12 in. OC. Joints to be covered with joint tape and joint compound.

**CERTAINTED GYPSUM INC** — Type C

14A. **Gypsum Board\*** — To be used with Item 13 when **Batts and Blankets\*** (Item 16) is used - 5/8 in. thick, 4 ft. wide by 10 ft. long with the long dimension parallel to the main runners, sheets fastened to cross tees with screws spaced 8 in. OC adjacent to end joints, 8 in. OC along each cross tee in the field; at the side and end joints screw shall be located 1-1/2 in. from the board edges. End joints to be staggered 4 ft. and to occur over cross tees. Additional cross tees to be located 6 in. from and on each side of the end joints. Joints to be covered with joint tape and joint compound

**CERTAINTED GYPSUM INC** — Type C

14B. **Gypsum Board\*** — When alternate **Steel Framing Members** Item 13A is used and when Batts and Blankets Item 16 is not used, 1/2 in. thick, 4 ft. wide by 10 ft. long gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners with a minimum of 50 percent of side joints shall occur beneath the Main Tees. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. Joints to be covered with paper tape and joint compound.

**CERTAINTED GYPSUM INC** — Type C

15. **Drywall Screws** — No. 6 Type S, bugle head, self-drilling, self-tapping steel screws. Screw length shall be 1-1/4 in. long when 1/2 in. thick Gypsum Board is used and 1-7/8 in. long when 5/8 in thick gypsum wall is used. Heads to be slightly indented in face of wallboard and covered with joint compound.

16. **Batts and Blankets\*** — (Optional, Not Shown) — For use with **Gypsum Board\*** (Item 14A) - 3-1/2 inch thick min. density 0.9 lb/ft<sup>3</sup> unfaced fiberglass batt insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over steel framing members/gypsum board ceiling membrane and light fixture protection.

17. **Discrete Products Installed in Air-handling Spaces\*** — Automatic Balancing Valve/Damper (Not Shown - Optional) — For use with Item 10. Valve/Damper to be provided with ducted installation with steel duct per damper manufacturer's instructions. Automatic Balancing Valve/Damper shall be installed within duct such that it is not directly above the ceiling radiation damper.

**METAL INDUSTRIES INC** — Model ABV-4, ABV-5, ABV-6

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-11-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."



**ELEMENT  
ARCHITECTS**  
+ interiors

## PROJECT TEAM

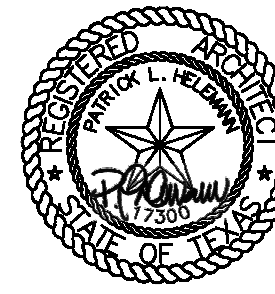
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
[www.superkidsaustin.com](http://www.superkidsaustin.com)

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
[www.ElementArchitects.com](http://www.ElementArchitects.com)

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

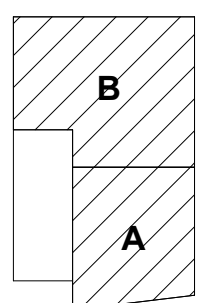
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/25/24

## SEAL / SIGNATURE



06/25/24

## KEY MAP



## PROJECT STATUS

ISSUE FOR PERMIT

## PROJECT NAME

SUPER KIDS DENTAL

## PROJECT ADDRESS

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

## PROJECT NUMBER

24017

## DATE

06/25/24

UL NO. G041



## UL Product iQ®



Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

## XHEZ - Through-penetration Firestop Systems

[See General Information for Through-penetration Firestop Systems](#)

## System No. F-A-2054

January 21, 2020

## F Rating — 3 Hr

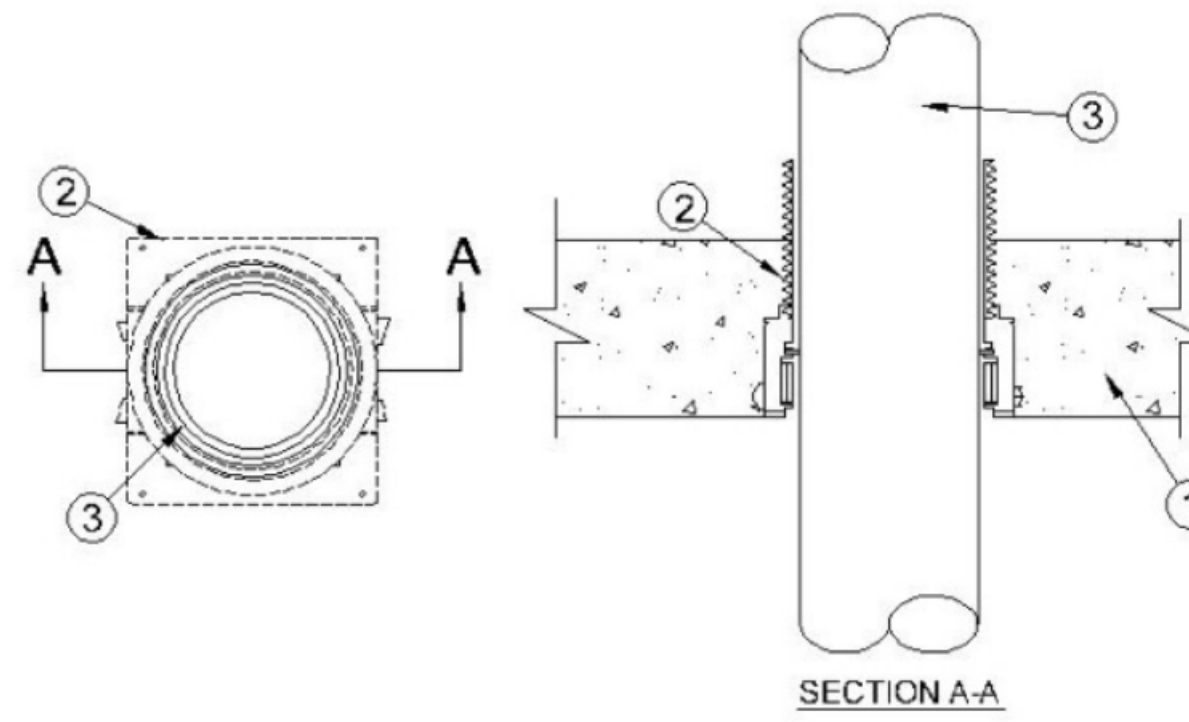
## T Ratings — 0 and 3 Hr (See Item 3)

**L Rating (Without Movement) At Ambient — Less Than 1 CFM/sq ft (See Item 3 and Table 1)**

**L Rating (Without Movement) At 400 F — Less Than 1 CFM/sq ft (See Item 3 and Table 1)**

**W Rating (Without Movement) — Class 1 (See Items 3, 4 and 4A)**

**M Rating (Movement) — See Table 2**



**1. Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete.

**1A. Floor Assembly - (Optional - Not Shown)** — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:

**A. Concrete** — Min 4-1/2 in (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete.

**B. Steel Floor and Form Units\*** — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.

**2. Firestop Device\*** — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete assembly in accordance with accompanying installation instructions. The devices may extend a max 2 in. (51 mm) above the top surface of the concrete.

**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — CP 680-75/2.5"N, CP 680-110/4"N, CP 680-160/6"N, CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6", CP 680-PX 2", CP 680-PX 3"

**3. Through Penetrants** — One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor assembly. **For W Rating with Water Barrier Module, pipe shall be installed from bottom of device.** The following types and sizes of nonmetallic pipes or conduits may be used:

**A. Polyvinyl Chloride (PVC) Pipe** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**B. Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Pipe-Nom 6 in. (152 mm) diam (or smaller) SDR11 or SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

**C. Rigid Nonmetallic Conduit\*** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

**D. Cross Linked Polyethylene (PEX) Tubing** — Nom 4 in. (102 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.

The firestop devices and nonmetallic penetrants shall be sized as follows in Table 1 below:

Table 1

Nom Pipe Diameter +-+	Firestop Device	T Rating-Hr +++
1/2 in. to 2 in. (19 mm to 51 mm)	CP 680-75/2.5"N CP 680-P 2" CP 680-PX 2"	3
3 in. (76 mm)	CP 680-110/4"N CP 680-P 3", CP 680-PX 3", CP 680-P 4"	0 and 3+
4 in. (102 mm)	CP 680-110/4"N	3
6 in. (152 mm)	CP 680-160/6"N CP 680-P 6"	0

+3 hr T Rating applies when CP 680-P00 3" and CP 680-P 4" devices are used. 3 hr T Rating also applied when CP 680-110/4"N device is used provided that min 4 in. (102 mm) thickness of nom 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation tightly packed within annulus between pipe and wall of CP 680-110/4"N device.

+ + L Rating applies only to CP 680-P00 devices and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.) L Rating does not apply to CP 680N devices.

+ + + T Rating is 0 hr for firestop systems with M Rating (Movement)

**4. Firestop Device** — Top seal plug for use with CP 680-P00 2" device installed in accordance with the manufacturer's instructions. The Top Seal Plug is optional for nom 1-1/2 in. (38 mm) pipes and conduits. Top Seal Plugs are required for all pipes and conduits less than nom 1-1/2 in. (38 mm). **W Rating applies only to the IPS Top Seal Plug and nom 2 in. diam penetrants and CPS Top Seal Plug for nom 1/2 to 2 in. (13 to 51 mm) diam penetrants.**  
**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — IPS and CPS Top Seal Plugs

**4A. Firestop Device\* - Water Barrier Module** — (Optional, Not Shown) - Alternate to Top Seal Plug (Item 4). Applies to nom 2", 3", 4" and 6" water barrier modules used in combination with the CP 680-P00 2", CP 680-P00 3", CP 680-P 4" and CP 680-P 6" devices, respectively, and supplied by device manufacturer. Module is threaded onto top of device. **W Rating applies only when water barrier module is used and nom diam of penetrant equals size of device.**  
**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — Water Barrier Module

The M Rating for the firestop system is dependent on the variables as noted in Table 2 below.

Table 2

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Device Size	Movement	Sealant Depth	L Rating	W Rating
Y	3A	2 in.	2 in.	100%**	N/A	N/A	N/A
Z	3A	2 in.	2 in.	3.21 in.	N/A	N/A	N/A

\*\* Percentage movement based on the minimum distance between penetrant OD and device ID.

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

+ Bearing the UL Listing Mark

[Last Updated](#) on 2020-01-21  
Last Updated on 2020-01-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."



**ELEMENT ARCHITECTS + interiors**

## PROJECT TEAM

## OWNER

SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
[www.superkidsaustin.com](http://www.superkidsaustin.com)

## ARCHITECT

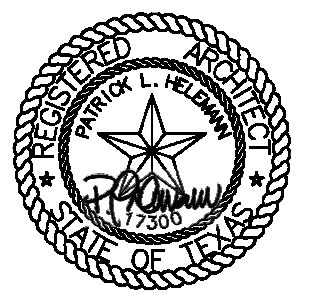
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
[www.ElementArchitects.com](http://www.ElementArchitects.com)

## MEP

K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

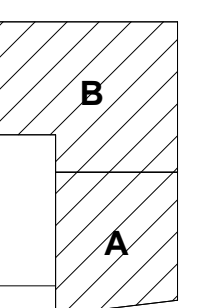
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

## SEAL / SIGNATURE



06/25/24

## KEY MAP



## PROJECT STATUS

ISSUE FOR PERMIT

## PROJECT NAME

SUPER KIDS DENTAL

## PROJECT ADDRESS

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

## PROJECT NUMBER

24017

## DATE

06/25/24

THROUGH-PENETRATION  
FIRESTOP SYSTEM

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

## XHEZ - Through-penetration Firestop Systems

[See General Information for Through-penetration Firestop Systems](#)

## System No. W-L-3001

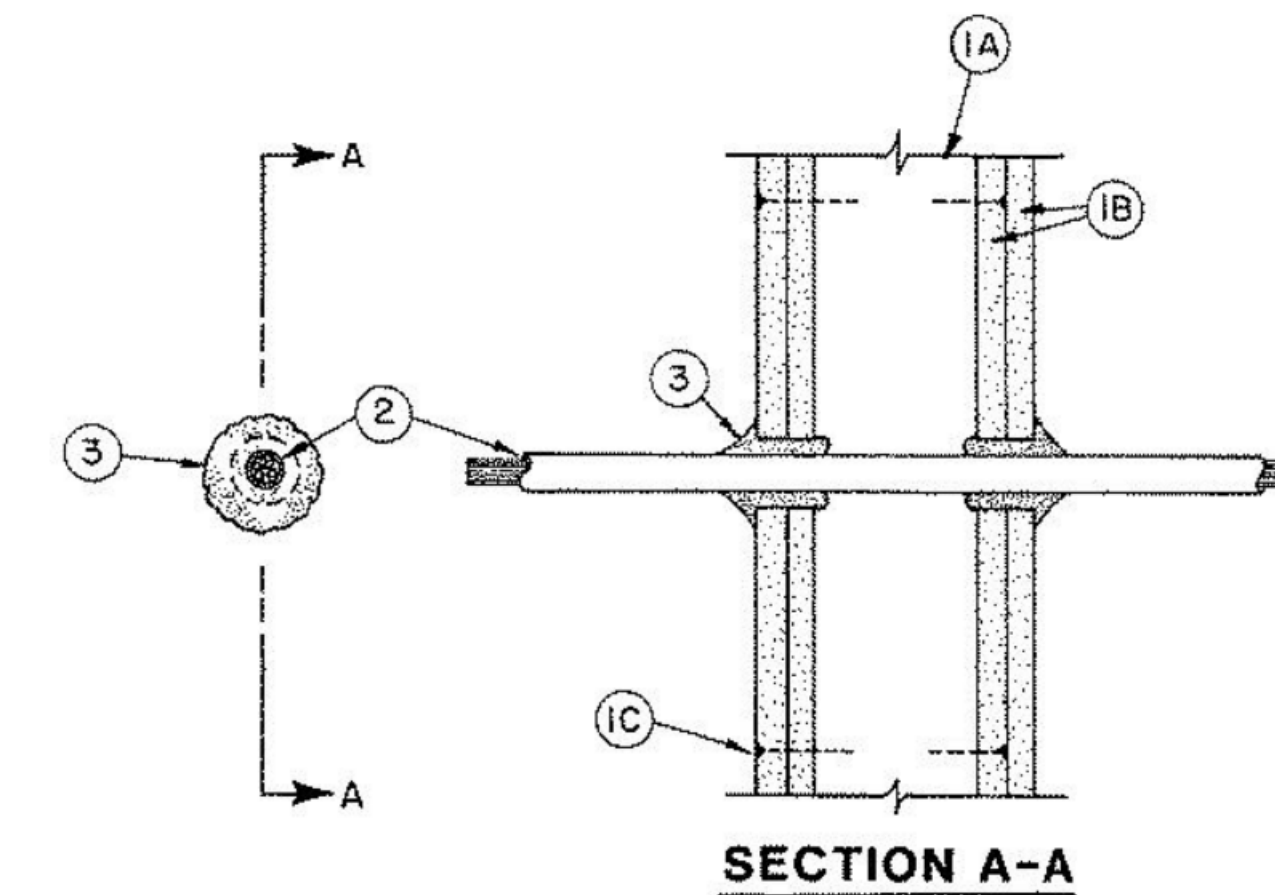
September 07, 2004

## F Ratings — 1 and 2 Hr (See Item 1)

## T Ratings — 3/4, 1, 1-1/2 and 2 Hr (See Item 2)

## L Rating At Ambient — 15 CFM/sq ft (See Item 3)

## L Rating At 400 F — less than 1 CFM/sq ft (See Item 3)



**1. Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

**A. Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

**B. Gypsum Board\*** — Nom 1/2 or 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and sheet orientation shall be as specified in the individual Wall or Partition Design. Diam of circular through opening to be 3/8 in. to 5/8 in. larger than outside diam of cable or cable bundle.

**C. Fasteners** — When wood stud framing is employed gypsum wallboard layers attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.  
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

**2. Cables** — Individual cable or max 1 in. diam cable bundle installed in through opening with an annular space of min 0 in. (point contact) to max 3/4 in. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:

A. Max 150 pair No. 24 AWG copper conductor telephone cable with polyvinyl chloride (PVC) insulation and jacket materials. **When max 25 pair telephone cable is used, T Rating is 2 hr. When 50 to 150 pair telephone cable is used in 1 hr fire rated wall, T Rating is 3/4 hr. When 50 to 150 pair telephone cable is used in 2 hr fire rated wall, T Rating is 1 hr.**

C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in. **When fiber optic cable is used, max T Rating is 2 hr.**

D. Max 12 AWG multiconductor (max seven conductors) power/control cable with cross-linked polyethylene (XLPE) insulation and XLPE or PVC jacket materials. **When multiconductor power/control cable is used, max T Rating is 2 hr.**

E. Max four conductor with ground No. 2 AWG (or smaller) aluminum SER cables with polyvinyl chloride insulation and jacket materials.

**3. Fill, Void or Cavity Materials\* — Caulk, Sealant or Putty** — Caulk or putty fill material installed to completely fill annular space between cable and gypsum wallboard on both sides of wall and with a min 1/4 in. diam bead of caulk or putty applied to perimeter of cable(s) at its egress from each side of the wall.

**3M COMPANY** — MP+ putty, CP 25WB+ caulk or FB-3000 WT sealant. (Note: L Ratings apply only when Type CP 25WB+ caulk or FB-3000 WT sealant is used.)

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

[Last Updated](#) on 2004-09-07

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."



## PROJECT TEAM

## OWNER

SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
[www.superkidsaustin.com](http://www.superkidsaustin.com)

## ARCHITECT

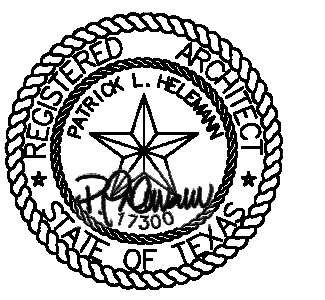
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
[www.ElementArchitects.com](http://www.ElementArchitects.com)

## MEP

K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

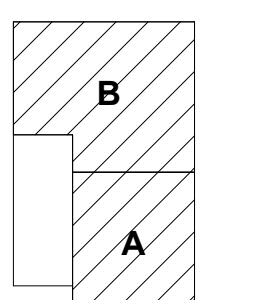
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

## SEAL / SIGNATURE



06/25/24

## KEY MAP



## PROJECT STATUS

ISSUE FOR PERMIT

PROJECT NAME

SUPER KIDS DENTAL

PROJECT ADDRESS

6707 E RIVERSIDE DRIVE, UNIT 101  
AUSTIN, TX 78741

PROJECT NUMBER

24017

DATE

06/25/24

THROUGH-WALL  
PENETRATION



## UL Product IQ®



## Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

## XHEZ - Through-penetration Firestop Systems

### XHEZ7 - Through-penetration Firestop Systems Certified for Canada

[See General Information for Through-penetration Firestop Systems](#)

[See General Information for Through-penetration Firestop Systems Certified for Canada](#)

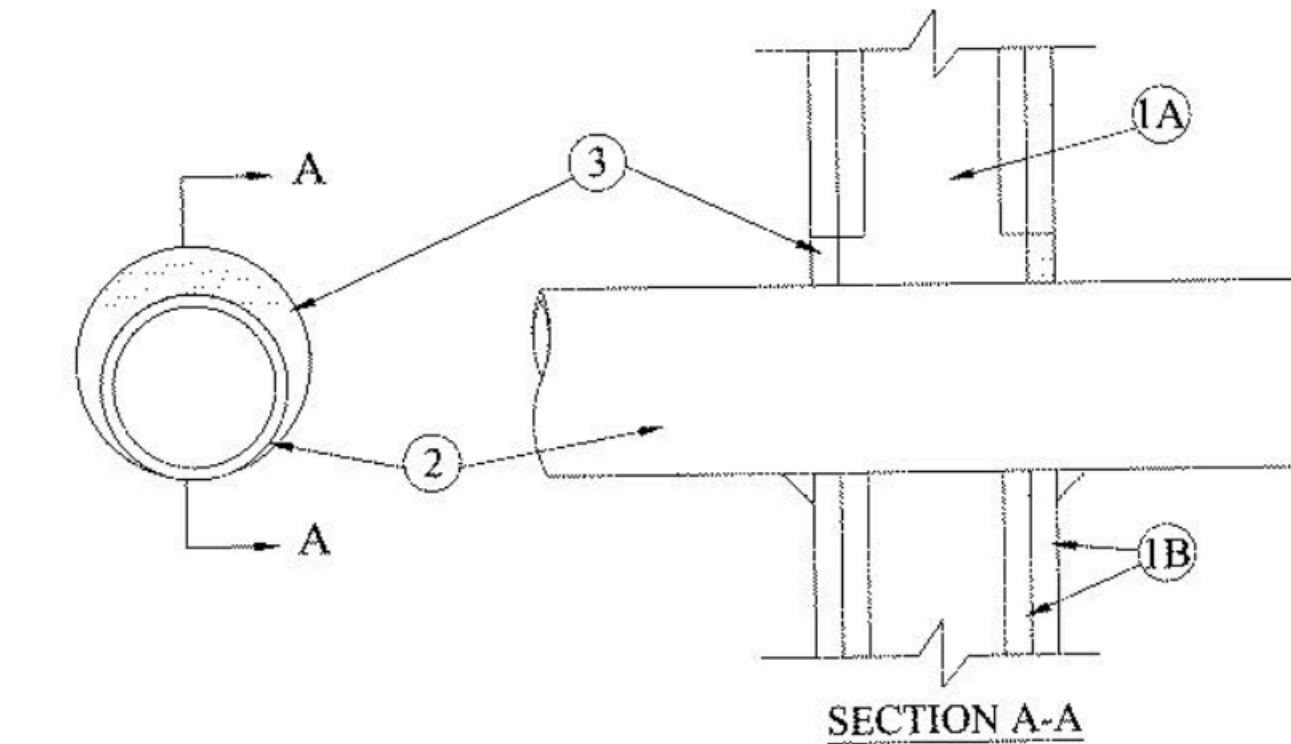
#### System No. W-L-1054

January 21, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC 5115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m <sup>2</sup>
	L Rating at 204°C — Less Than 5.1 L/s/m <sup>2</sup>

6/12/24, 3:48 PM

XHEZ7 W-L-1054 | UL Product IQ



**1. Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

**A. Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

**B. Gypsum Board\*** — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

**The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.**

**2. Through-Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

6/12/24, 3:48 PM

XHEZ7 W-L-1054 | UL Product IQ

**A. Steel Pipe** — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

**B. Iron Pipe** — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

**C. Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.

**D. Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

**E. Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

**3. Fill, Void or Cavity Material\* — Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC** — FS-ONE MAX Intumescent Sealant

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

**Table 1**

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating
							with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

\* Rigid steel conduit

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

[Last Updated](#) on 2020-01-21

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."



#### PROJECT TEAM

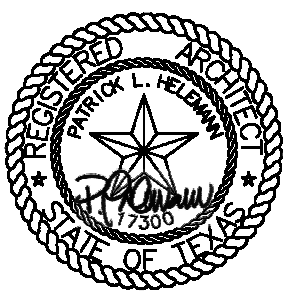
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
[www.superkidsaustin.com](http://www.superkidsaustin.com)

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
[www.ElementArchitects.com](http://www.ElementArchitects.com)

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

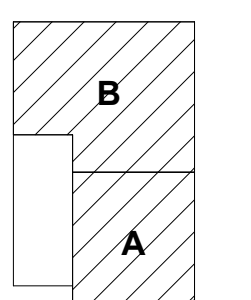
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

#### SEAL / SIGNATURE



06/25/24

#### KEY MAP



#### PROJECT STATUS

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

24017

**DATE**

06/25/24

**THROUGH-WALL  
PENETRATION METAL  
CONDUIT**



**FLOOR PLAN GENERAL NOTES**

- FIELD VERIFY EXISTING BUILDING DIMENSIONS PRIOR TO CONSTRUCTION. IF DIMENSION DIFFERS, NOTIFY THE ARCHITECT PRIOR TO INSTALLATION.
- DO NOT SCALE DRAWING IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE BIDDING. ANY UNCLEAR ITEMS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMITTING THE PROPOSAL.
- THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING, BUT NOT LIMITED TO ASBESTOS PRODUCT, POLYCHLORINATED BIPHENYL (PCB) OR OTHER SUBSTANCES.
- THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR DEMOLITION OR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIONS WITH THE WORK PERFORMED BY THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT HIS WORK IN ACCORDANCE WITH THE SCOPE OF WORK AS DEFINED WITHIN THE CONSTRUCTION DOCUMENTS.
- PARTITIONS:
  - DO NOT SCALE DRAWINGS. DIMENSIONS GOVERNING. DIMENSIONS ARE TO THE FACE OF THE STUD, EXCEPT FOR INTERIOR ELEVATIONS, WHICH IS FROM FINISH FACE TO FINISH FACE.
  - PARTITIONS THAT ALIGN WITH EXISTING BUILDING PARTITIONS SHALL ALIGN WITH THE FINISHED FACE OF NEW GYPSUM LAYER.
  - GYPSUM BOARD ABOVE CEILING TO BE TAPED AND FLOATED ONLY.
  - INSTALL 5/8" WATER RESISTANT GYPSUM BOARD AT ALL PLUMBING CHASES AND WET AREAS.
  - REFER TO SHEET A811 FOR PARTITION TYPE INFORMATION.
  - INTERIOR PARTITIONS SHALL BE TYPE MB.1 UNLESS NOTED OTHERWISE. REFER TO SHEET A811 FOR PARTITION TYPES.
- LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS
  - PARTITIONS OR FURRINGS EXCEEDING 30'-0" SPANS HORIZONTAL OR VERTICAL
  - WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
  - AT CHANGES WITHIN PLANE OR PARTITION
  - AT EXPANSION JOINTS
  - AT BOTH JAMS OF INTERIOR AND EXTERIOR DOOR FRAMES AND WINDOW FRAMES, ABOVE AND BELOW FOR FULL HEIGHT OF WALL
- DRAWINGS NOTED AS "N.T.S." OR "NTS" ARE NOT TO SCALE.
- DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
- DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND/OR MANUFACTURERS.
- TYPICAL INTERIOR DOOR ROUGH OPENING TO BEGIN 6-INCHES FROM CORNERS, U.N.O.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR BRACING AND BLOCKING OF WALLS RECEIVING MILLWORK, SHELVING, TOILET ACCESSORIES, EQUIPMENT, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH BUCKS, AND MISCELLANEOUS BLOCKING IS TO BE FIRE-RETARDANT TREATED.
- THE GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC., PRIOR TO PROCEEDING WITH WORK.
- THE GENERAL CONTRACTOR SHALL CONFIRM ALL OWNER FURNISHED, OWNER INSTALLED (O.F.O.I.) AND OWNER FURNISHED, CONTRACTOR INSTALLED (O.F.C.I.) ITEMS WITH THE ARCHITECT AND THE OWNER PRIOR TO EXECUTION OF CONTRACT. TO CONFIRM ALL DIMENSIONAL, ARCHITECTURAL, AND MEP REQUIREMENTS AS CONFIGURED IN THESE DOCUMENTS.
- FOR TYPICAL MOUNTING HEIGHTS REFER TO SHEETS G101 & G102.
- FOR ROOM FINISHES REFER TO FINISH SCHEDULE & FINISH PLANS.
- CLOSE ALL JOINTS BETWEEN PLUMBING FIXTURES, ACCESSORIES & DISSIMILAR MATERIALS W/ SEALANT (I.E. SINKS & ACCESSORIES TO WALL).
- FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS. REFER TO FINISH SCHEDULE FOR FURTHER INFORMATION
- ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48

**PROJECT TEAM**

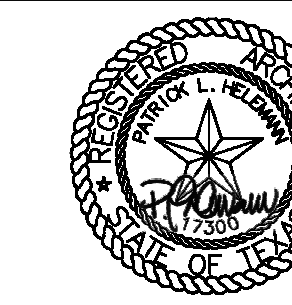
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

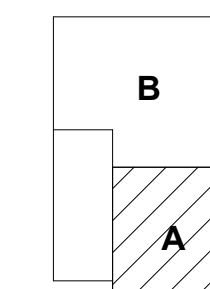
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

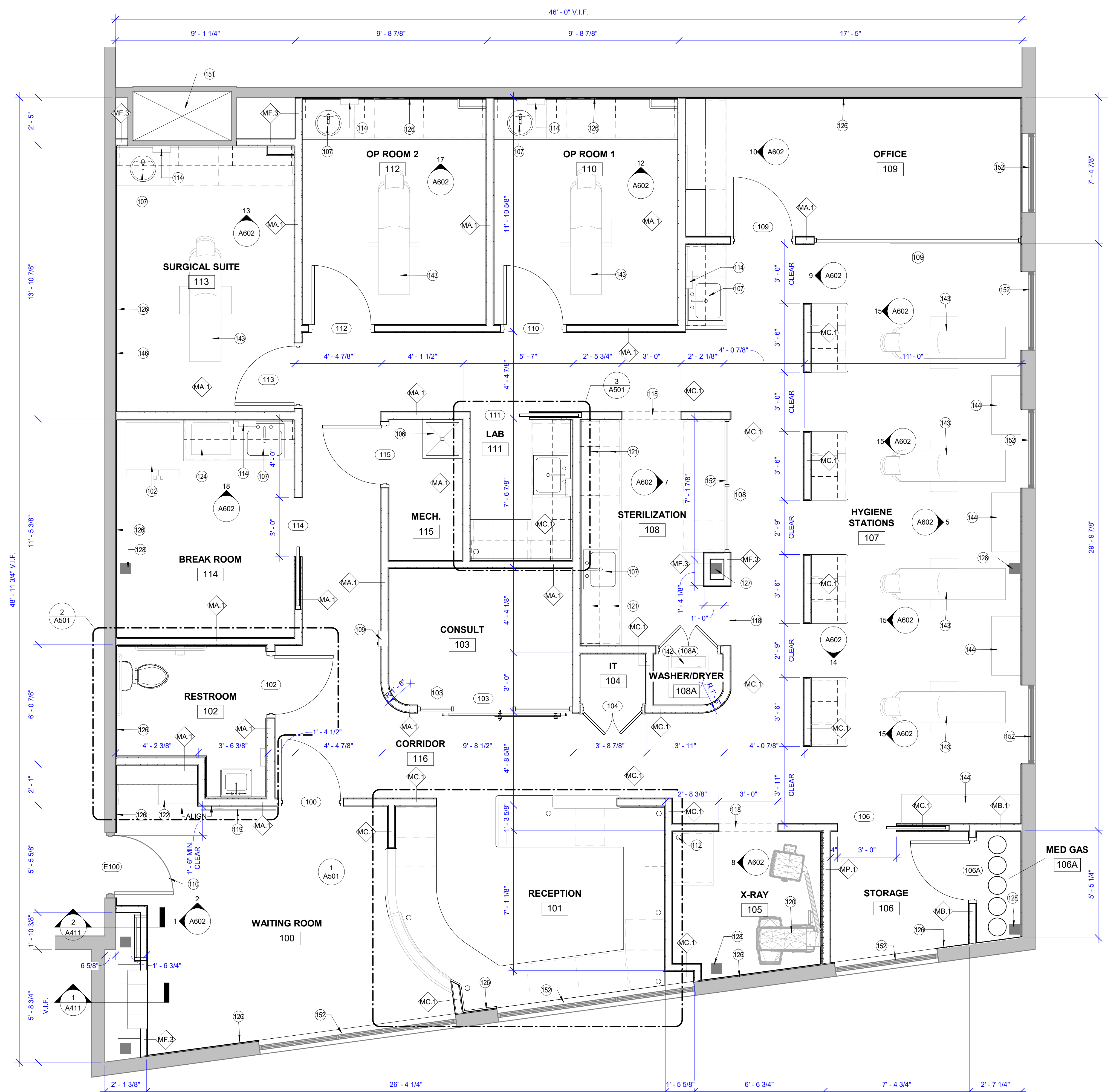
24017

**DATE**

05/30/24

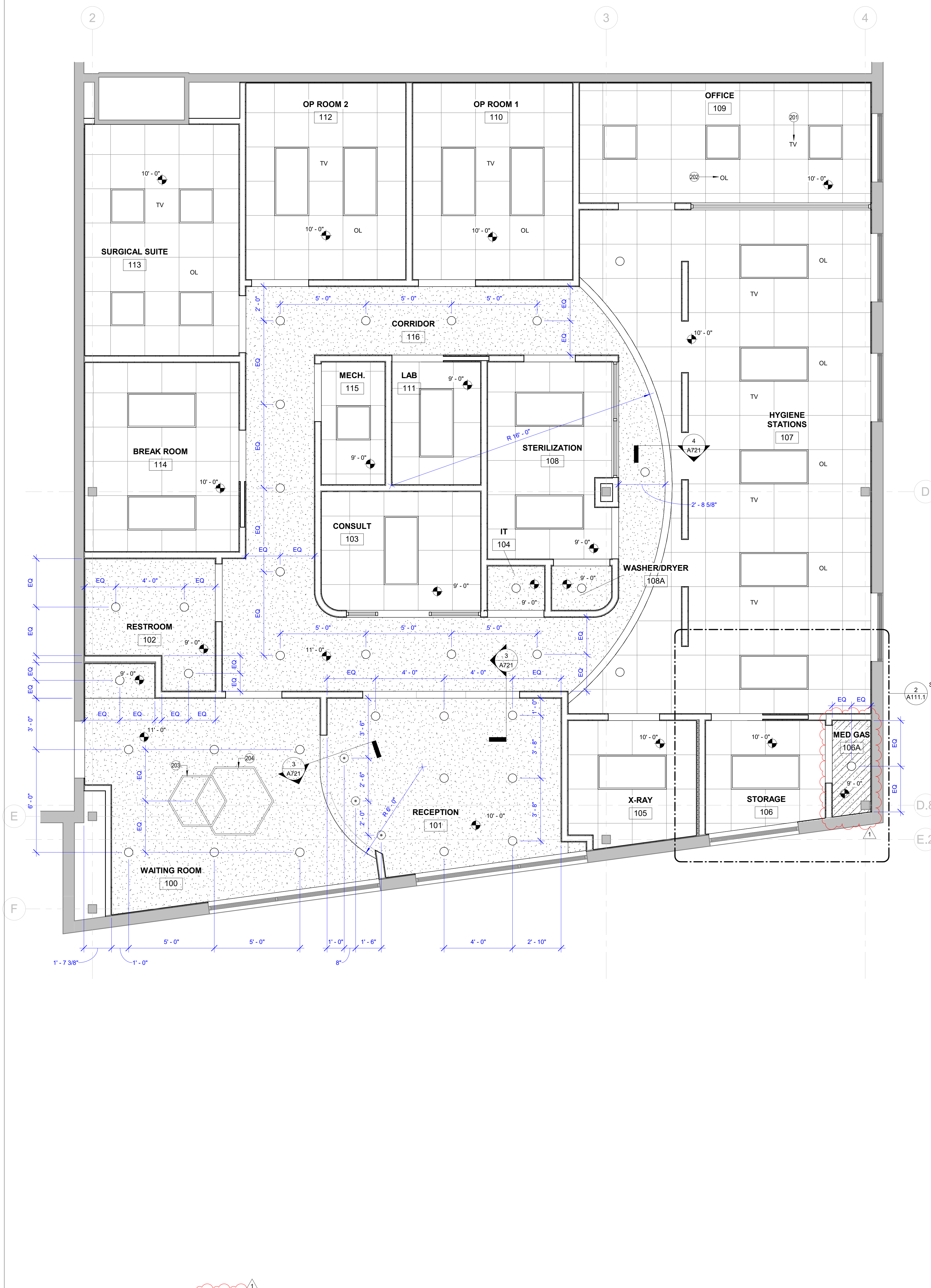
**FLOOR PLAN - LEVEL 2**

A111

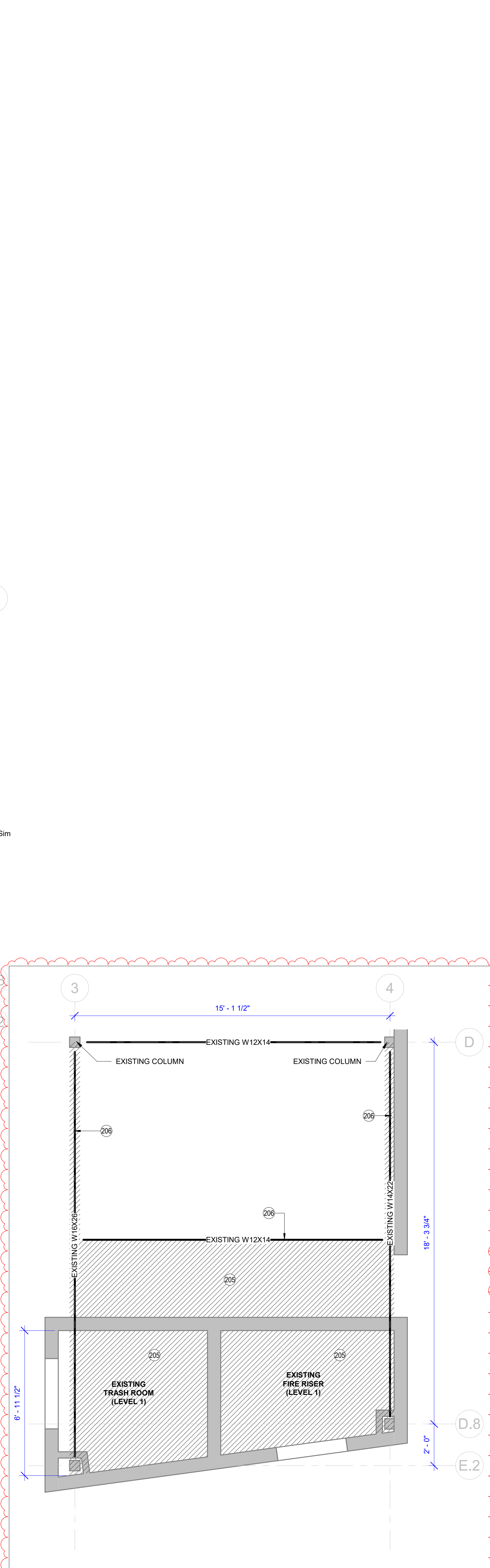


**KEYNOTE SCHEDULE**

KEY VALUE	KEYNOTE TEXT
102	REFRIGERATOR (O.F.C.I.)
106	MOP SINK (RE: PLUMBING DWGS.)
107	SINGLE BOWL STAINLESS STEEL SINK. (RE: PLUMBING DWGS.)
109	FIRE EXTINGUISHER CABINET (F.E.C.), STEEL, SEMI-RECESSED 2-1/2", LARSEN'S MODEL NO. 2409-6R, FIRE EXTINGUISHER, LARSEN'S MODEL NO. MP5, MOUNT 27" AFF
110	EXISTING 3'-0" WIDE DOOR AND FRAME TO REMAIN
112	3" DIAMETER GROMMETS W/ PLATE COVER, BLACK COLOR FINISH
114	SURFACE MOUNTED PAPER TOWEL DISPENSER; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
118	7'-0" HIGH X 3'-0" WIDE GYP CASED OPENING, PAINTED GYP (PT-1)
119	WALL MOUNTED TV MONITOR (O.F.C.I.), GC TO PROVIDE BLOCKING, TV MOUNT, POWER AND DATA, RE: ELECT DWGS.
120	ORTHOPANTOMOGRAPH MACHINE, GC TO COORDINATE WITH OWNER'S CONSULTANT AND REFER TO MANUFACTURER REQUIREMENTS FOR BLOCKING REQUIREMENTS
121	MILLWORK (BY OTHERS)
122	UNDERCOUNTER FRIDGE (O.F.C.I.)
124	MICROWAVE (O.F.C.I.)
126	PROVIDE NEW 5/8" GYP BOARD OVER EXISTING METAL STUD WALL
127	FURROUT AROUND EXISTING COLUMN TO BE FIELD VERIFIED
128	PAINT EXISTING COLUMN, PT-1 (RE: FINISH SCHEDULE)
142	STACKABLE WASHER/DRYER (O.F.C.I.)
143	DENTAL CHAIRS (BY OTHERS)
144	BENCH WITH VINYL CUSHION, FB-01 (RE: FINISH SCHEDULE)
146	TRIPLE OUTLET STATION, RE: MIDWEST DENTAL STUPLY FOR DETAILS
151	EXISTING MECHANICAL SHAFT, G.C. TO VERIFY EXACT LOCATION IN FIELD
152	HORIZONTAL ALUMINUM BLINDS (C.F.C.I.)



1 REFLECTED CEILING PLAN - LEVEL 2 - AREA A  
SCALE: 3/8" = 1'-0"



2 REFLECTED CEILING PLAN - LEVEL 1 - AREA A  
SCALE: 3/8" = 1'-0"

**GENERAL RCP NOTES**

- EXIT ACCESS ROUTES AND ACCESSIBLE ROUTES: MINIMUM CLEAR HEADROOM SHALL BE 6'-8", AT, INCLUDING BUT NOT LIMITED TO, ARCHITECTURAL FEATURES, CEILINGS, SIGNAGE, SOFFITS, EXPOSED STRUCTURE AND BUILDING SYSTEMS COMPONENTS, SUCH AS LIGHT FIXTURES AND EXIT SIGNS, ETC.
- CENTER LIGHT FIXTURES, DIFFUSERS AND GRILLES IN CEILING PANELS WHEN SUCH COMPONENTS ARE SMALLER THAN THE GRID MODULE.
- PROVIDE CEILING GYPSUM BOARD CONTROL JOINTS AS SHOWN AND IN ACCORDANCE WITH INDUSTRY STANDARD BEST PRACTICE.
- REFER TO THE "FINISH SCHEDULE" FOR FURTHER DEFINITION OF CEILING MATERIALS AND FINISHES.
- LOCATE ALL CEILING MOUNTED SMOKE DETECTORS AND SPEAKERS IN THE CENTER OF FULL PANELS AT LAY-IN CEILING.
- LOCATE ALL SPRINKLER HEADS IN THE CENTER OF FULL PANELS AT LAY-IN CEILINGS. AT GYPSUM BOARD CEILINGS, SYMMETRICALLY SPACE HEADS AND CENTER ON LIGHT ROWS WHERE AREA LIMITATIONS PERMIT.
- REFER TO CEILING PLANS FOR CEILING HEIGHTS. ALL HEIGHTS ARE TO BOTTOM OF GRID SYSTEM OR GYP BOARD ABOVE FINISH FLOOR (AFF RELATIVE TO THE FLOOR THAT THE CEILING PLAN IS SHOWN).
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.
- ALL CEILING GRIDS ARE TO BE CENTERED IN A ROOM UNLESS SHOWN TO BE CONTINUOUS OR DIMENSIONED OTHERWISE.
- REFER TO MECHANICAL DRAWINGS FOR HVAC DIFFUSER GRILLE SIZES AND TYPES.
- COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, & GRILLES WITH M.E.P. DRAWINGS.
- ALL CEILINGS TO BE 10'-0" AFF UNLESS NOTED OTHERWISE.

**RCP LIGHTING LEGEND - COMMERCIAL**

- RECESSED CAN LIGHT, RE: ELECTRICAL DWGS
- PENDANT LIGHT, RE: ELECTRICAL DWGS
- 2X2 LED LIGHT, RE: ELECTRICAL DWGS
- 2X4 LED LIGHT, RE: ELECTRICAL DWGS
- HEXAGON PENDANT LIGHT (RE: KEYNOTE FOR SIZE), RE: ELECTRICAL DWGS
- TV: CEILING MOUNTED TV, GC TO PROVIDE TV MONITOR, TV MONITOR ARM, AND (2) LAYERS OF 3/4" PLYWOOD BACKING TO SUPPORT 100 LBS. MIN. RE: ELECTRICAL & MIDWEST DENTAL DWGS FOR DETAILS
- OL: CEILING MOUNTED OVERHEAD LIGHT (BY MIDWEST DENTAL), GC TO PROVIDE (2) LAYERS OF 3/4" PLYWOOD BACKING TO SUPPORT 200 LBS. MIN. RE: ELECTRICAL & MIDWEST DENTAL DWGS FOR SPECS AND DETAILS

**RCP MATERIAL LEGEND**

- GYPSUM CEILING (TYPE X)
- ACT CEILING
- GYPSUM CEILING (TYPE C, 1-HR RATED, UL G041)
- SPRAY-APPLIED FIRE RESISTIVE MATERIAL (1-HR RATED, UL D902)

**KEYNOTE SCHEDULE**

KEY VALUE	KEYNOTE TEXT
201	GC TO PROVIDE POWER AND DATA FOR FUTURE CEILING MOUNTED TV
202	GC TO PROVIDE POWER FOR FUTURE OVERHEAD LIGHT
203	LUMENWERX RIM HEXAGON PENDANT FIXTURE, SIZE: H-3, RE: ELECTRICAL DWGS.
204	LUMENWERX RIM HEXAGON PENDANT FIXTURE, SIZE: H-4, RE: ELECTRICAL DWGS.
205	GC TO PROVIDE SPRAY-APPLIED FIRE RESISTIVE MATERIAL ON EXISTING UNDERSIDE OF DECKING IN ITS ENTIRETY WITHIN HATCHED SPACE
206	GC TO PROVIDE SPRAY-APPLIED FIRE RESISTIVE MATERIAL ON EXISTING BEAMS IN ITS ENTIRETY WITHIN HATCHED SPACE



**PROJECT TEAM**

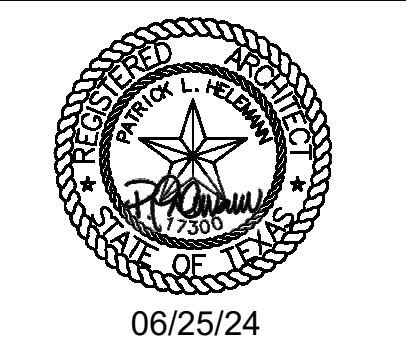
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, L.L.C.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

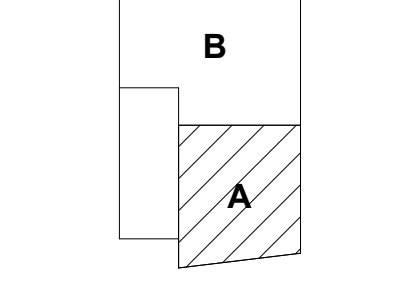
#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**



06/25/24

**KEY MAP**



**PROJECT STATUS**  
ISSUE FOR PERMIT

**PROJECT NAME**  
SUPER KIDS DENTAL

**PROJECT ADDRESS**  
6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**  
24017

**DATE**  
06/25/24

RCP - LEVEL 2

A111.1



**ELEMENT ARCHITECTS**  
interiors

**PROJECT TEAM**

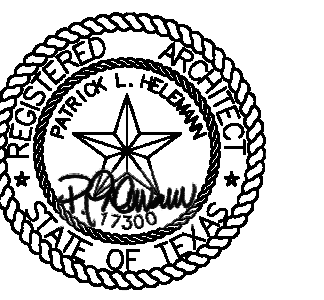
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR.  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

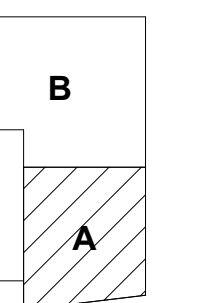
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

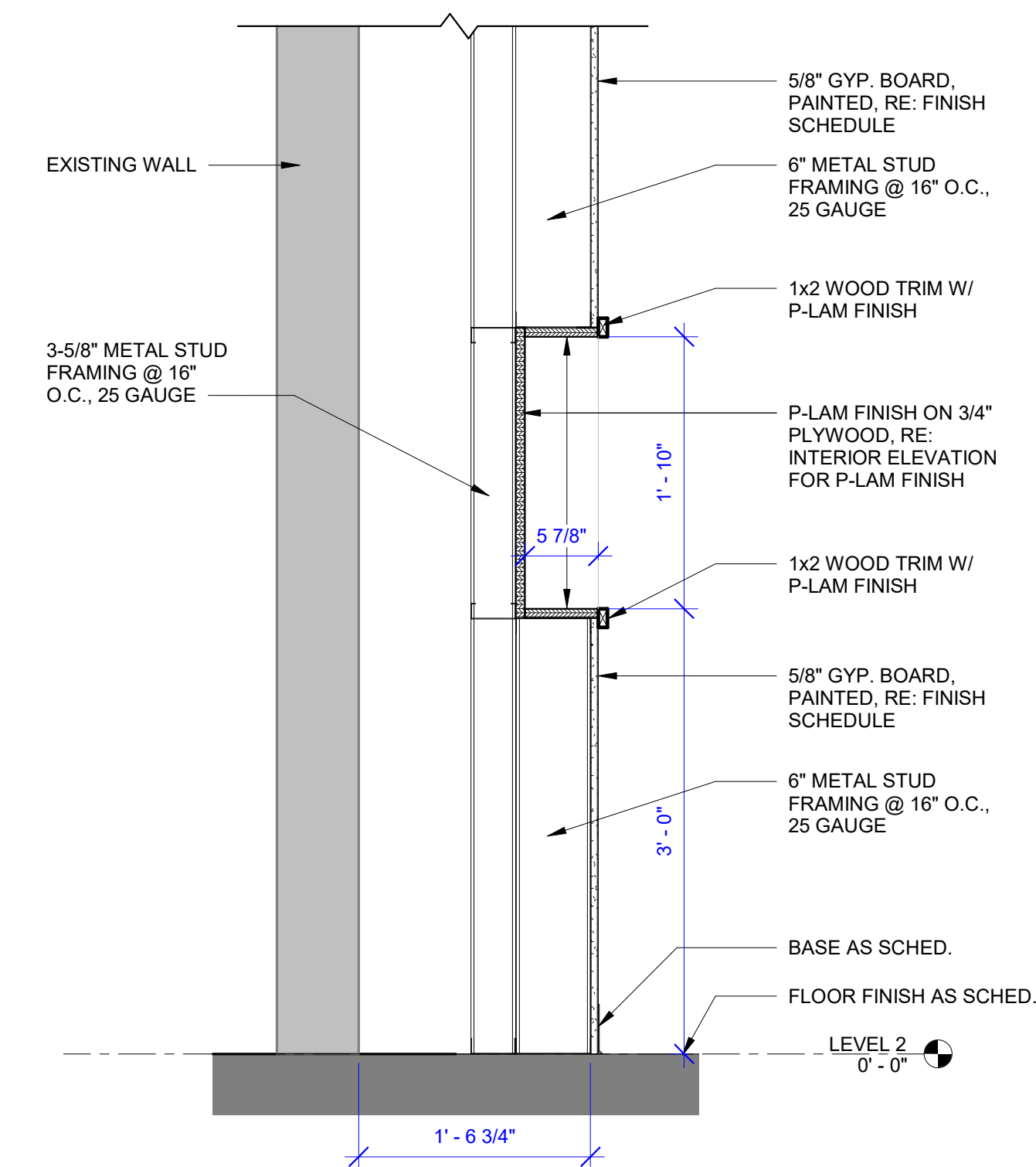
24017

**DATE**

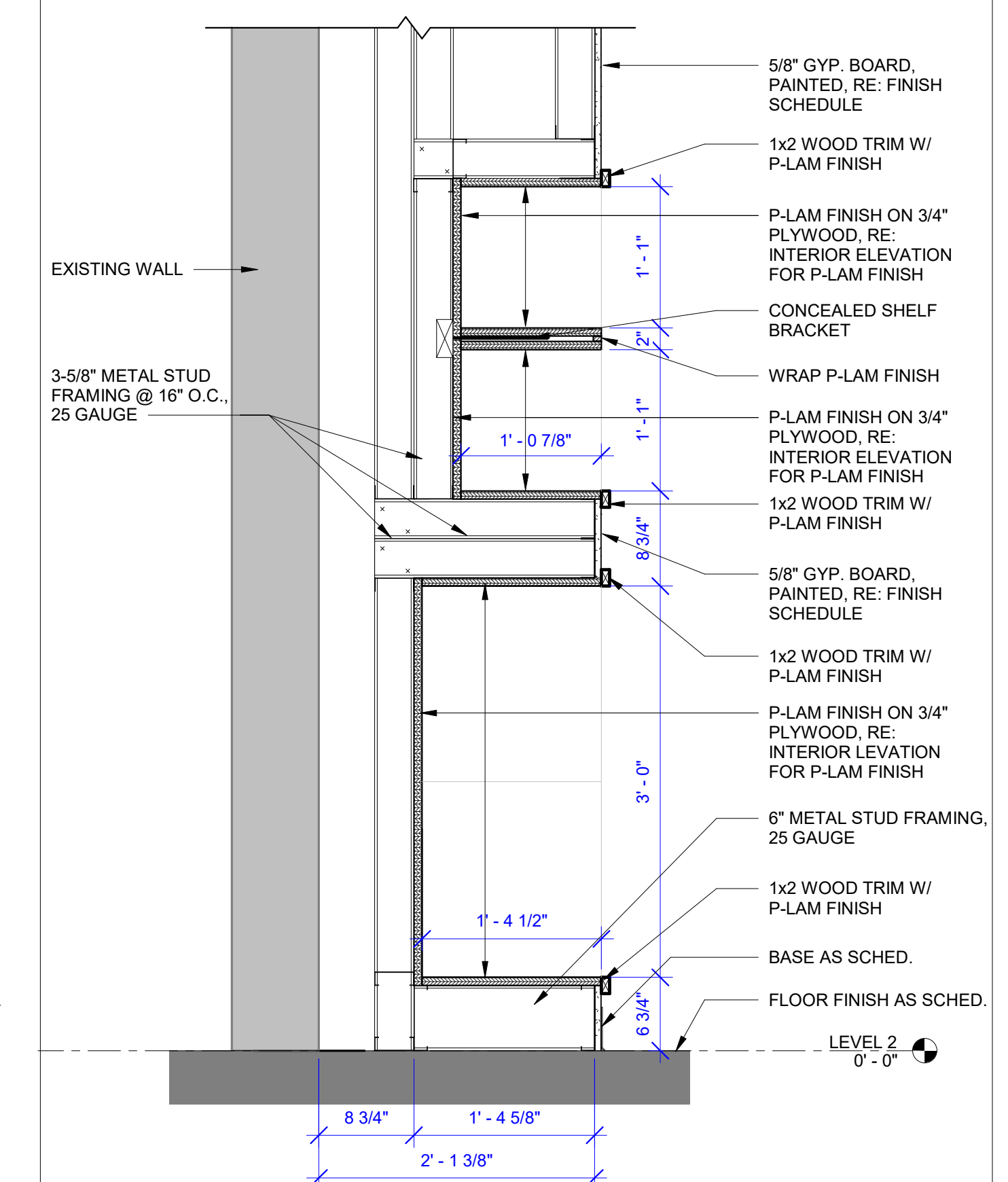
05/30/24

**WALL SECTIONS**

**A411**



**2 HEXAGON WALL SECTION**  
SCALE: 1" = 1'-0"



**1 HEXAGON WALL SECTION**  
SCALE: 1" = 1'-0"

TOILET ACCESSORY SCHEDULE			
ITEM:	MANUFACTURER:	COLOR:	MODEL #:
24" X 36" CHANNEL FRAME MIRROR	BOBRICK	STAINLESS STEEL	B-165
SURFACE MOUNTED TOILET PAPER DISPENSER	BOBRICK	STAINLESS STEEL	B-6857
SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK	STAINLESS STEEL	B-262
36" GRAB BAR	BOBRICK	STAINLESS STEEL	B-6806
42" GRAB BAR	BOBRICK	STAINLESS STEEL	B-6806

KEYNOTE SCHEDULE	
KEY VALUE	KEYNOTE TEXT
107	SINGLE BOWL STAINLESS STEEL SINK, (RE: PLUMBING DWGS.)
108	HANDICAP COMPLIANT WALL MOUNTED SINK; WRAP (INSULATE) ALL EXPOSED PIPES (RE: PLUMBING DWGS.)
111	P.LAM SURFACE COUNTERTOP, PLAM-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
112	3" DIAMETER GROMMETS W/ PLATE COVER, BLACK COLOR FINISH
113	TOILET PAPER DISPENSER, SURFACE-MOUNTED, STAINLESS STEEL SATIN FINISH; RE: G101 FOR MOUNTING HEIGHT
114	SURFACE MOUNTED PAPER TOWEL DISPENSER; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
115	24" x 36" FRAME MIRROR, CUT WALL TILE AS NEEDED AROUND THE MIRROR FRAME SO MIRROR HANGS FLUSH WITH GYP. WALL; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
116	42 INCH ADA GRAB BARS; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
117	36 INCH ADA GRAB BARS; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
119	WALL MOUNTED TV MONITOR (O.F.C.I.), GC TO PROVIDE BLOCKING, TV MOUNT, POWER AND DATA, RE: ELECT DWGS.
122	UNDERCOUNTER FRIDGE (O.F.C.I.)

**ENLARGED PLANS & ELEVATIONS GENERAL NOTES**

- SEE ACCESSIBILITY NOTES AND DIAGRAMS FOR DIMENSIONS GOVERNING SIZE AND LOCATION OF FIXTURES, APPLIANCES, ACCESSORIES, DOORS, AND CASEWORK.
- PROVIDE P.LAM FINISH (PLAM-03) ON END PANELS AND FILLER PANELS.



**PROJECT TEAM**

**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

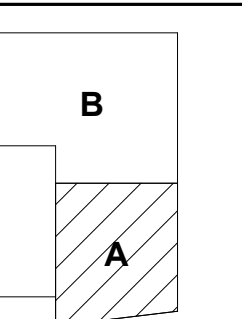
#	DESCRIPTION	DATE
---	-------------	------

SEAL / SIGNATURE



05/30/24

KEY MAP



PROJECT STATUS

ISSUE FOR PERMIT

PROJECT NAME

SUPER KIDS DENTAL

PROJECT ADDRESS

6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741

PROJECT NUMBER

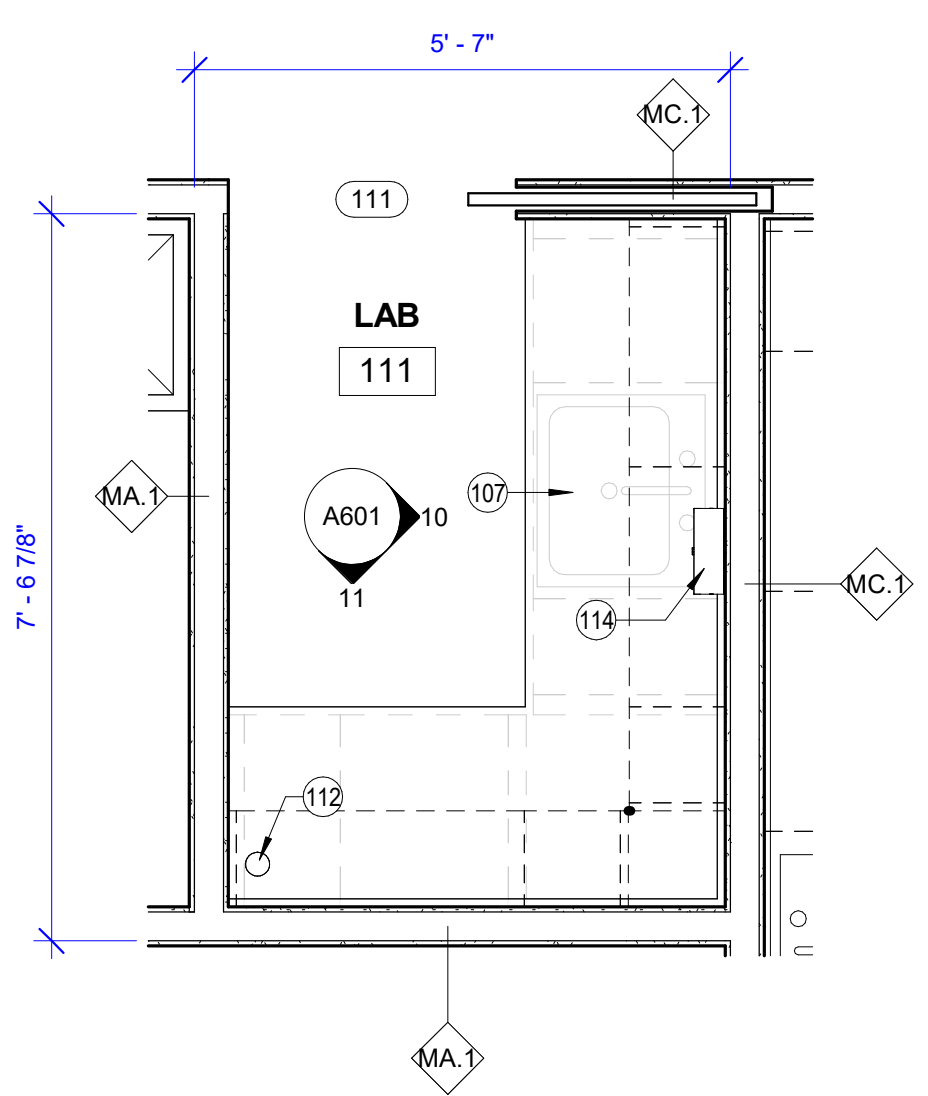
24017

DATE

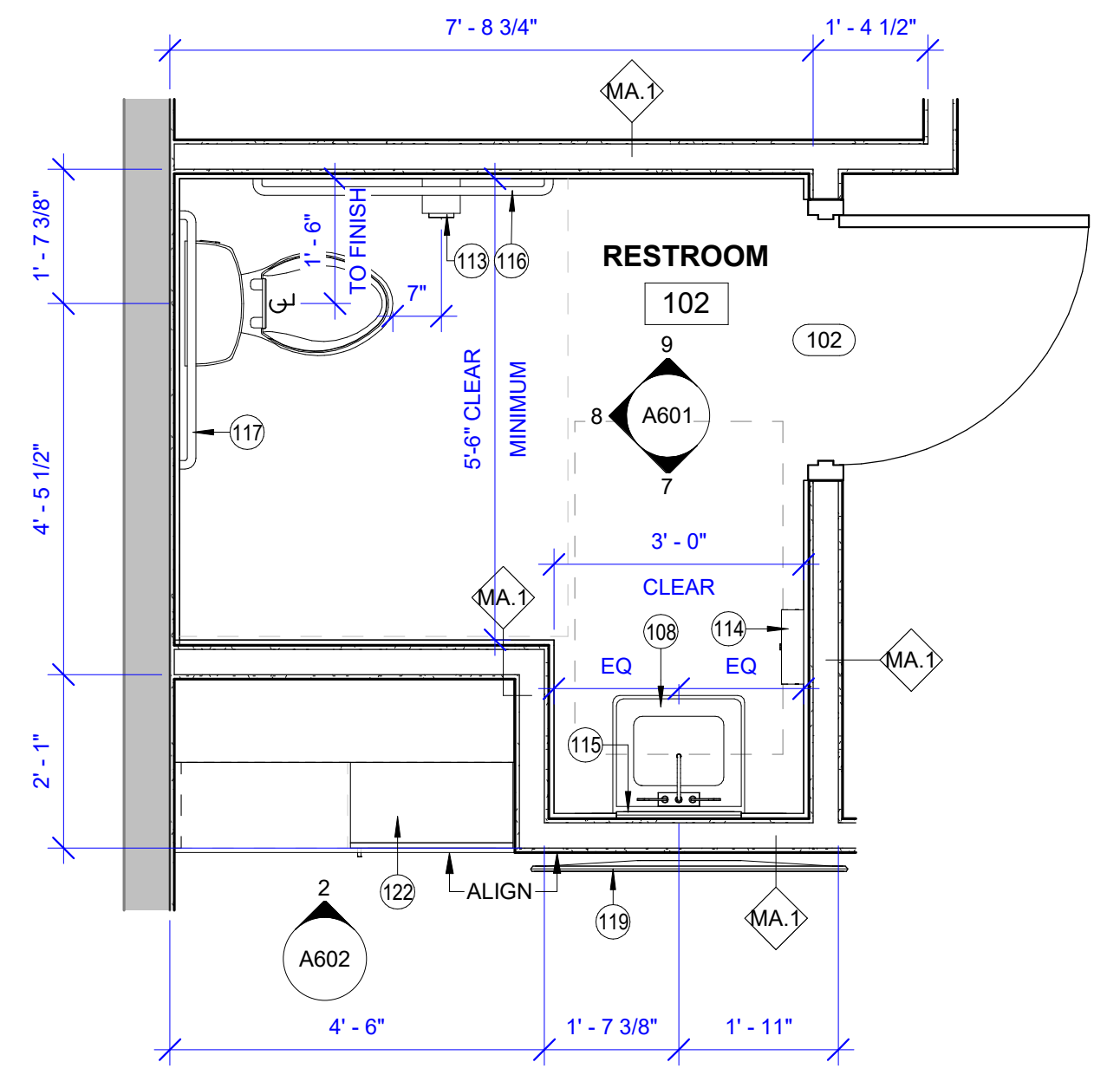
05/30/24

ENLARGED PLANS

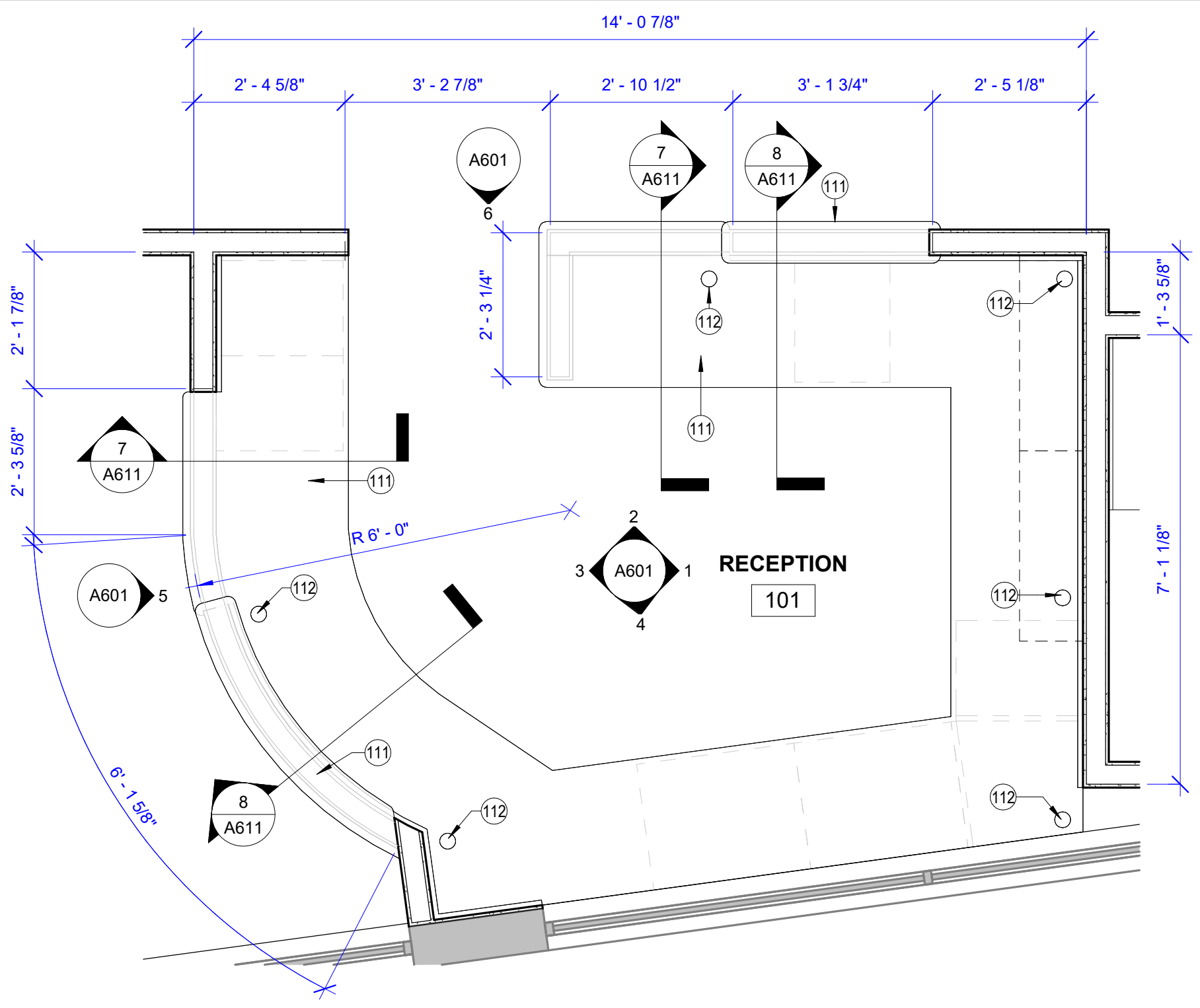
A501



3 ENLARGED FLOOR PLAN - LAB 111  
 SCALE: 1/2" = 1'-0"



2 ENLARGED FLOOR PLAN - RESTROOM 102  
 SCALE: 1/2" = 1'-0"



1 ENLARGED FLOOR PLAN - RECEPTION 101  
 SCALE: 1/2" = 1'-0"



**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

**CASEWORK GENERAL NOTES**

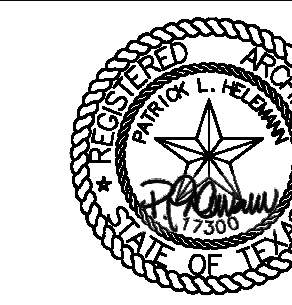
- REFER TO INTERIOR ELEVATIONS, WHICH IDENTIFY THE ROOM AND WALL ON WHICH THE CABINETS ARE LOCATED. COORDINATE CABINETS LOCATIONS WITH FLOOR PLANS.
- SPECIALIZED CABINET SECTIONS ARE ONLY KEYED OR NOTED ON CABINET ELEVATIONS. OTHER CABINET SECTIONS ILLUSTRATE TYPICAL CONSTRUCTION & NOT EVERY DOOR AND/OR DRAWER VARIATION IS SHOWN.
- PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETS (INCLUDING KNEE SPACES).
- PROVIDE TRIM AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
- PROVIDE BACKSPLASH WHERE COUNTERTOP ABUTS WALL AT SIDES - U.N.O.
- PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS (2 PER KNEE SPACE). LOCATE IN FIELD W/ ARCHITECT OR OWNER. GROMMET COLOR TO BE BLACK.
- PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINETS ATTACHED TO WALLS. SEE SECTION DETAILS FOR ATTACHMENT INFORMATION.
- FILE DRAWERS ARE NOTED ON ELEVATIONS.
- CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O. ON ELEVATION(S).
- PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER WALL CABINETS TO CLOSE OFF ALL CONCEALED OPENINGS (I.E., KEEP VERMIN OUT).
- AT THE BOTTOM OF INDIVIDUAL UPPER CABINET UNITS, ALLOW FOR CONTINUOUS RUNS OF UNDERCOUNTER LIGHTS; REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.
- ALL WOOD TO BE FIRE TREATED.
- ALL DOORS AT DRAWER FACES TO BE FLUSH WITH THE FACE OF FILLER PANELS AT SCRIBES. PROVIDE FILLER PANELS, WALL SCRIBES, FINISH FURR DOWNS, AND ALL OTHER COMPONENTS FLUSH WITH FACES OF DOORS AND DRAWERS.
- ALL MILLWORK DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION.
- ALL WOOD GRAIN LAMINATE TO BE INSTALLED WITH GRAIN RUNNING VERTICALLY - U.N.O.
- FINISHED END SUPPORT PANEL EDGES TO BE EDGE BANDED.
- ALL BASE CABINET TOE KICK FACES TO BE PAINT-GRADE FINISH.
- ALL CABINETS AND DRAWERS ARE TO RECEIVE LOCKS, U.N.O.

**KEYNOTE SCHEDULE**

KEY VALUE	KEYNOTE TEXT
101	SOLID SURFACE COUNTERTOP, SS-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
103	P.LAM BASE CABINETS, PLAM-03 (RE: FINISH PLANS AND FINISH SCHEDULE)
104	P.LAM UPPER CABINETS, PLAM-02 (RE: FINISH PLANS AND FINISH SCHEDULE)
107	SINGLE BOWL STAINLESS STEEL SINK, (RE: PLUMBING DWGS.)
108	HANDICAP COMPLIANT WALL MOUNTED SINK; WRAP (INSULATE) ALL EXPOSED PIPES (RE: PLUMBING DWGS.)
111	P.LAM SURFACE COUNTERTOP, PLAM-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
113	TOILET PAPER DISPENSER, SURFACE-MOUNTED, STAINLESS STEEL SATIN FINISH; RE: G101 FOR MOUNTING HEIGHT
114	SURFACE MOUNTED PAPER TOWEL DISPENSER; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
115	24" x 36" FRAME MIRROR, CUT WALL TILE AS NEEDED AROUND THE MIRROR FRAME SO MIRROR HANGS FLUSH WITH GYP WALL; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
116	42 INCH ADA GRAB BARS; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
117	36 INCH ADA GRAB BARS; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
129	RUBBER BASE, RB-01 (RE: FINISH SCHEDULE)
130	FIELD PAINTED GYP WALL, PT-01 (RE: FINISH SCHEDULE)
134	FIELD WALL TILE ON MOISTURE RESISTANT GYP BOARD, WTL-01 (RE: FINISH SCHEDULE)
135	ACCENT WALL TILE ON MOISTURE RESISTANT GYP BOARD, WTL-02 (RE: FINISH SCHEDULE)
153	4" P.LAM SURFACE BACKSPLASH, PLAM-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
154	4" SOLID SURFACE BACKSPLASH, SS-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
156	PENDANT LIGHT FIXTURE (RE: ELECT. DWGS.)
157	EXISTING WINDOW

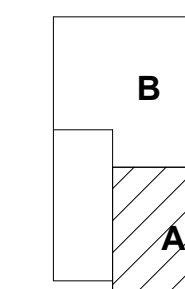
#	DESCRIPTION	DATE

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 101  
AUSTIN, TX 78741

**PROJECT NUMBER**

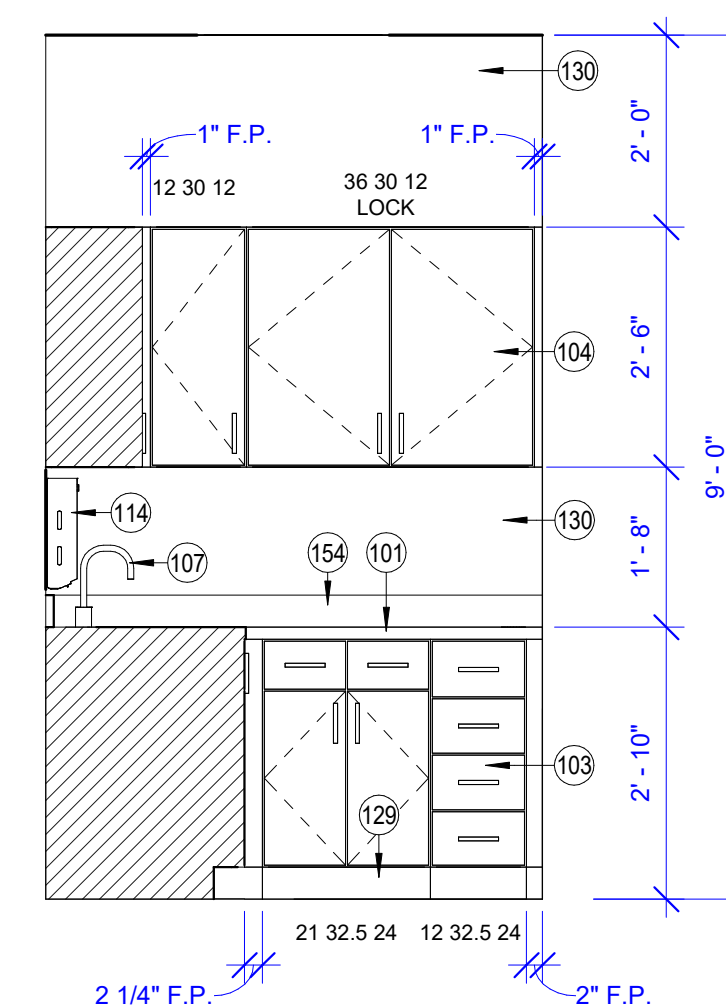
24017

**DATE**

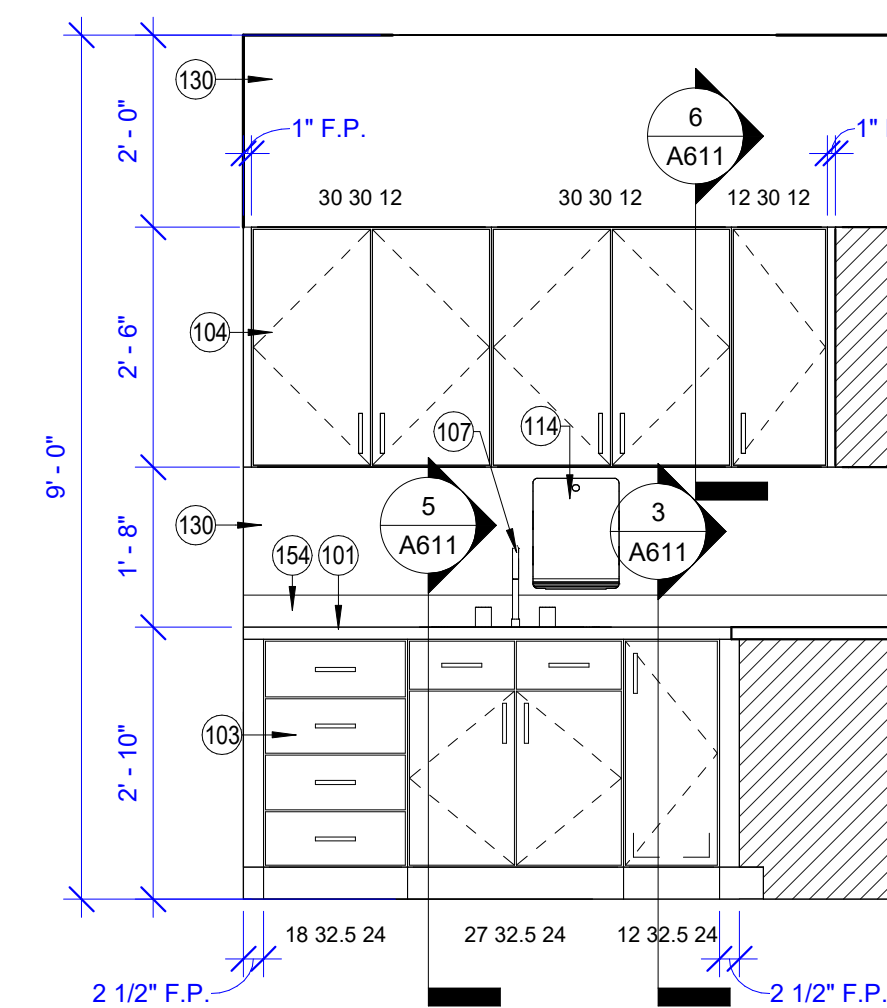
05/30/24

**INTERIOR ELEVATIONS**

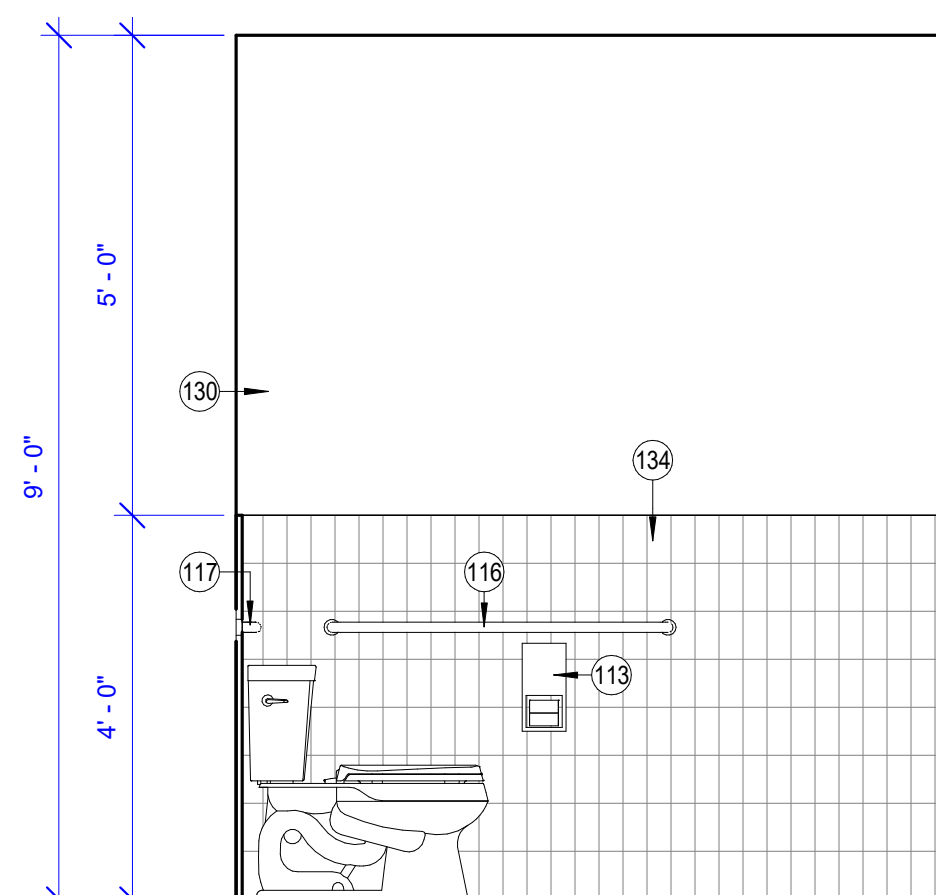
**A601**



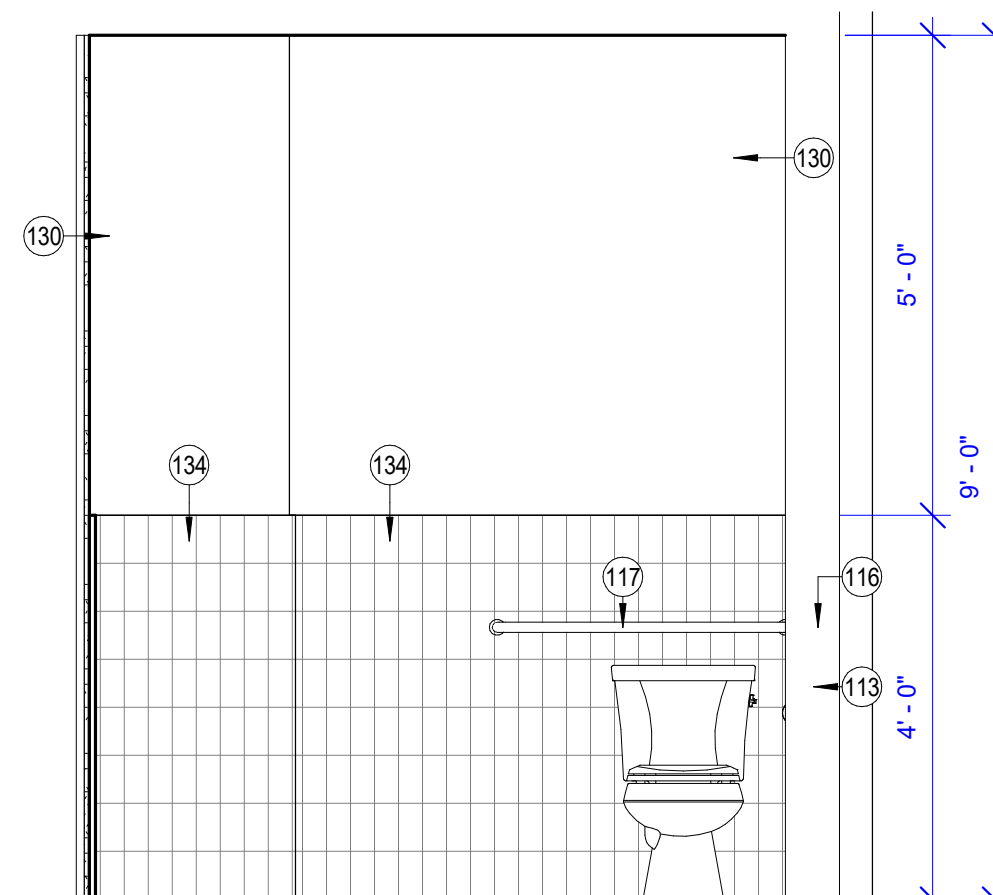
11 LAB INTERIOR ELEVATION - OPEN KNEE SPACE  
SCALE: 1/2" = 1'-0"



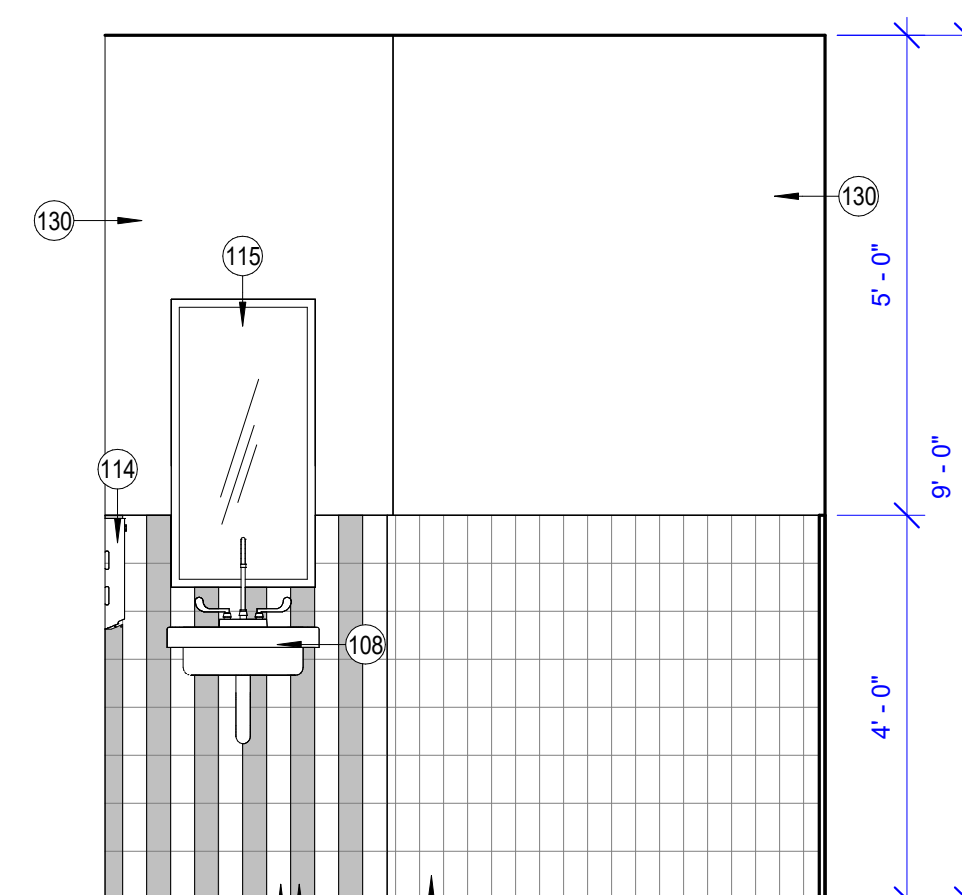
10 LAB INTERIOR ELEVATION - SINK  
SCALE: 1/2" = 1'-0"



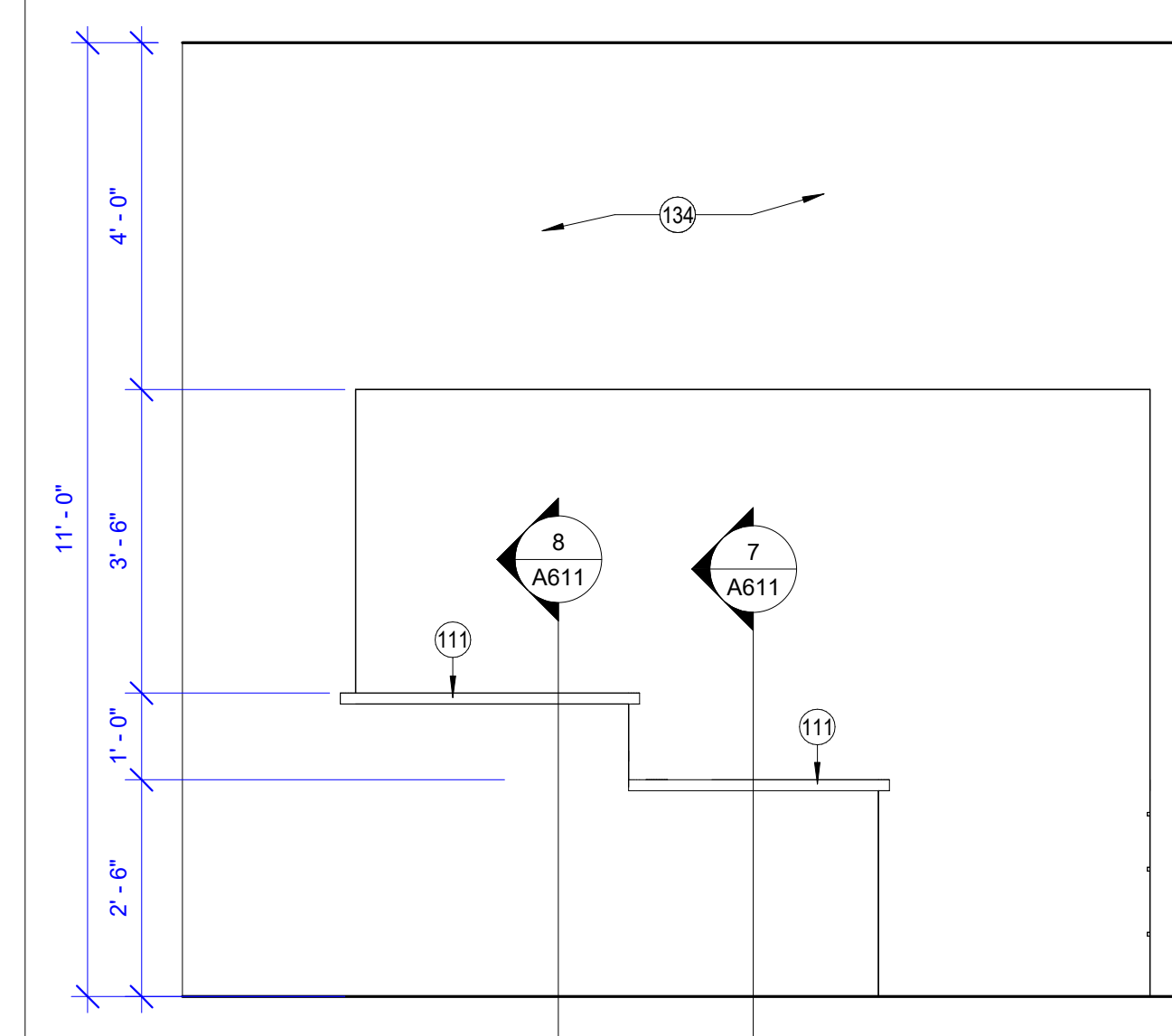
9 RESTROOM INTERIOR ELEVATION - ADA GRAB BAR  
SCALE: 1/2" = 1'-0"



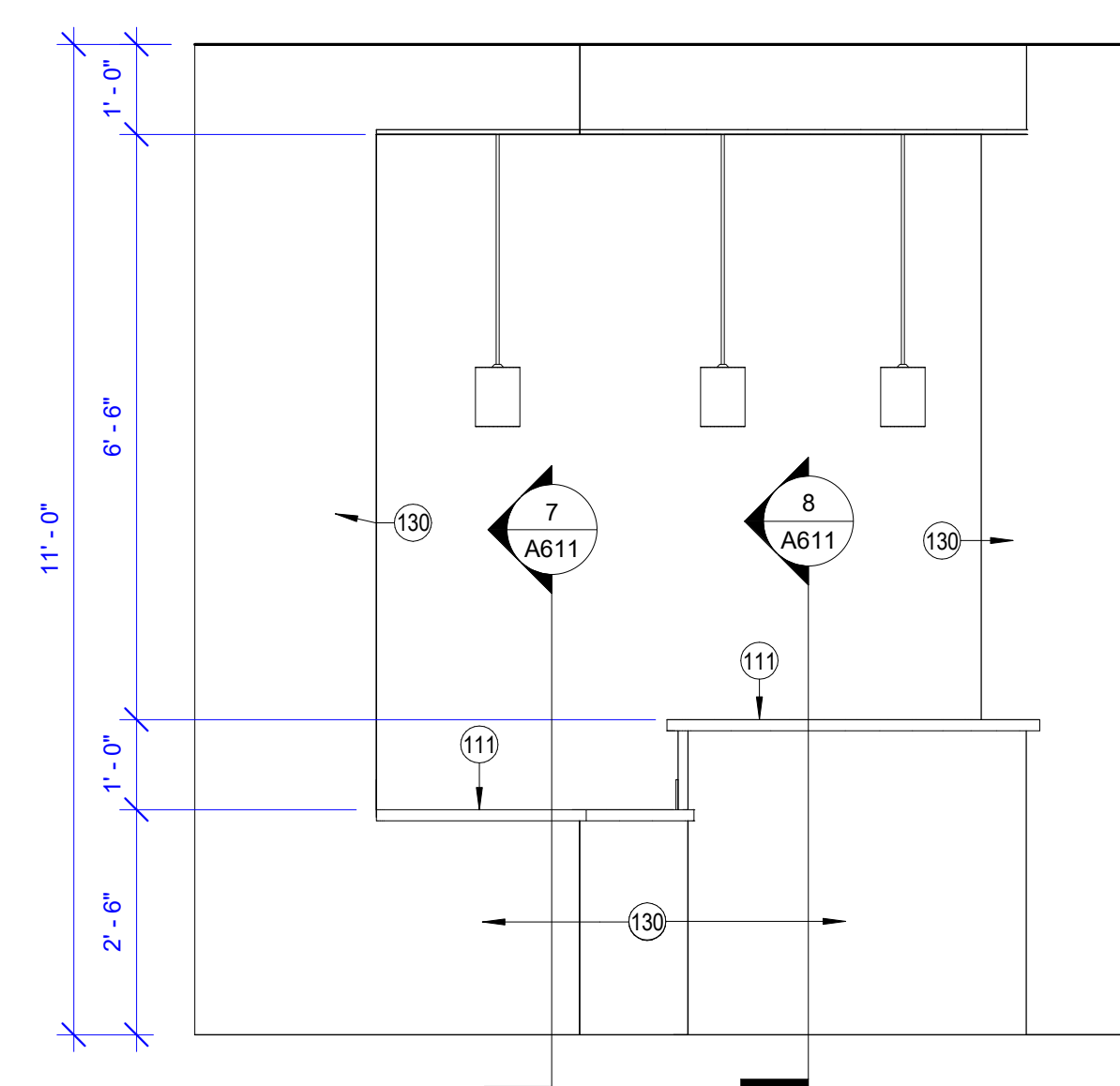
8 RESTROOM INTERIOR ELEVATION - TOILET  
SCALE: 1/2" = 1'-0"



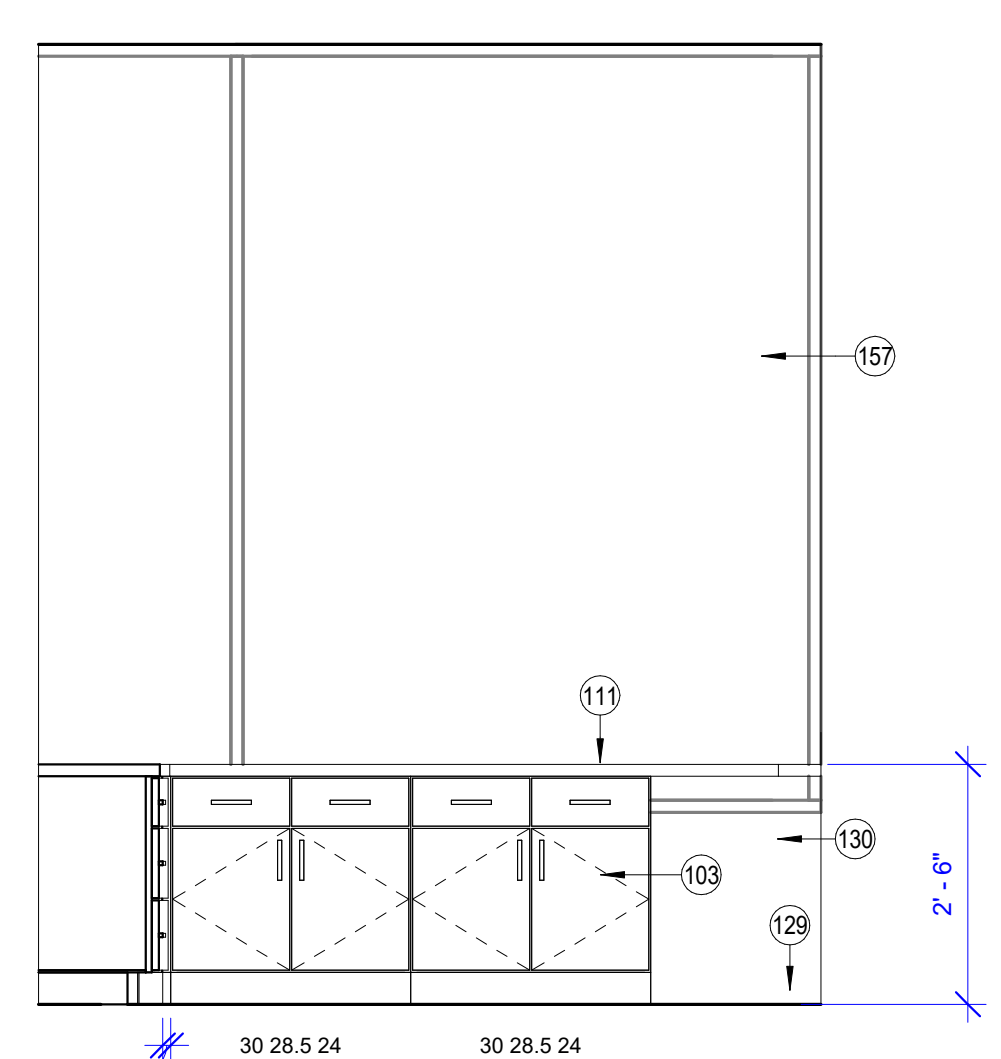
7 RESTROOM INTERIOR ELEVATION - SINK  
SCALE: 1/2" = 1'-0"



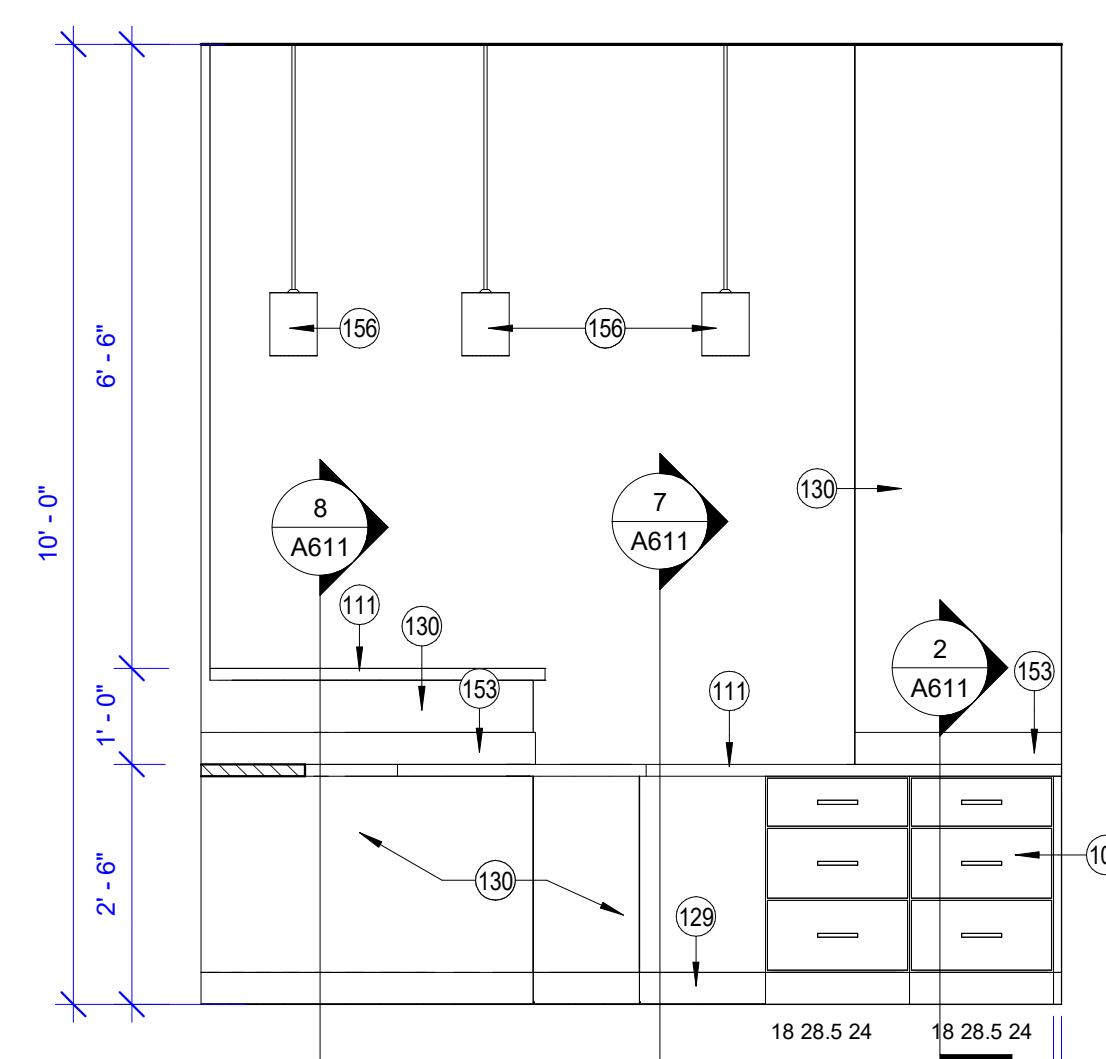
6 RECEPTION AREA - INTERIOR ELEVATION 6  
SCALE: 1/2" = 1'-0"



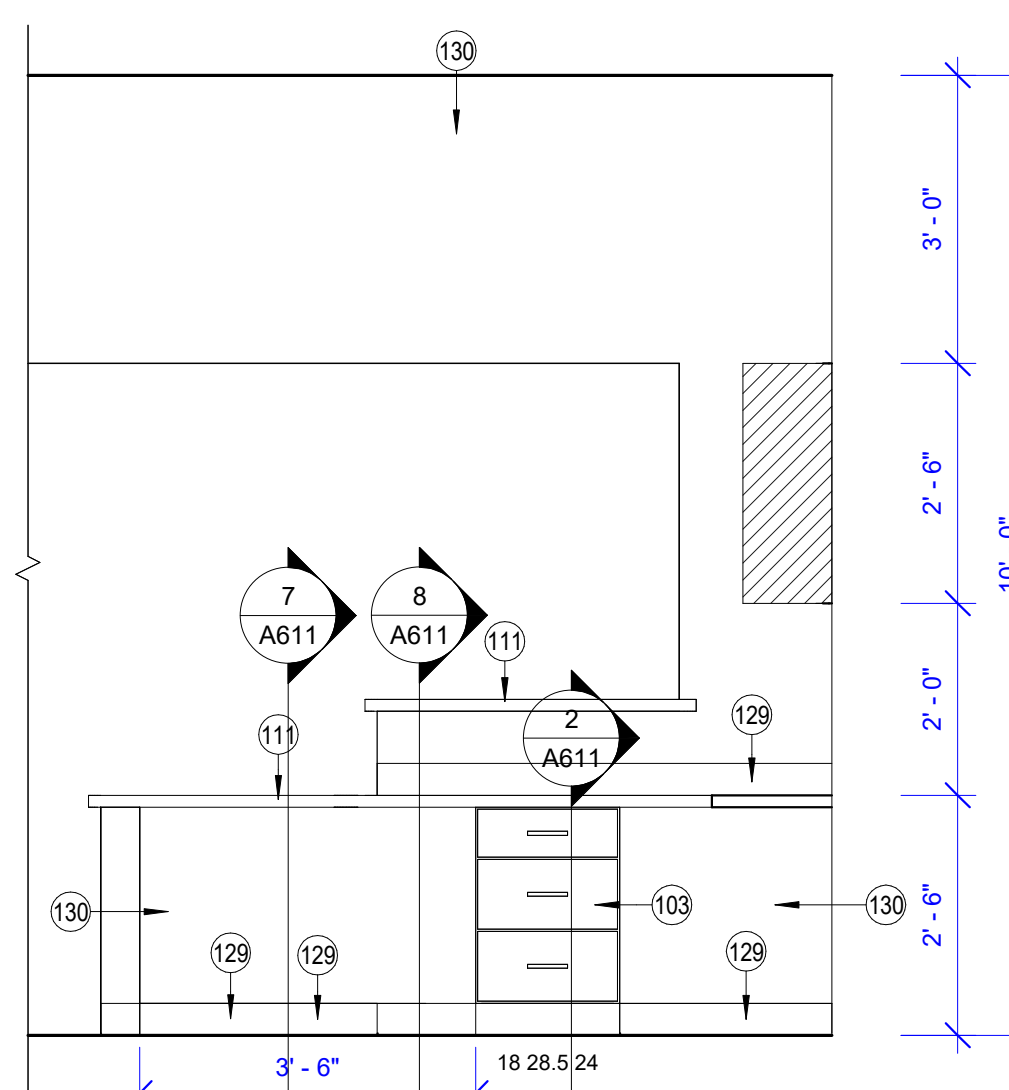
5 RECEPTION AREA - INTERIOR ELEVATION 5  
SCALE: 1/2" = 1'-0"



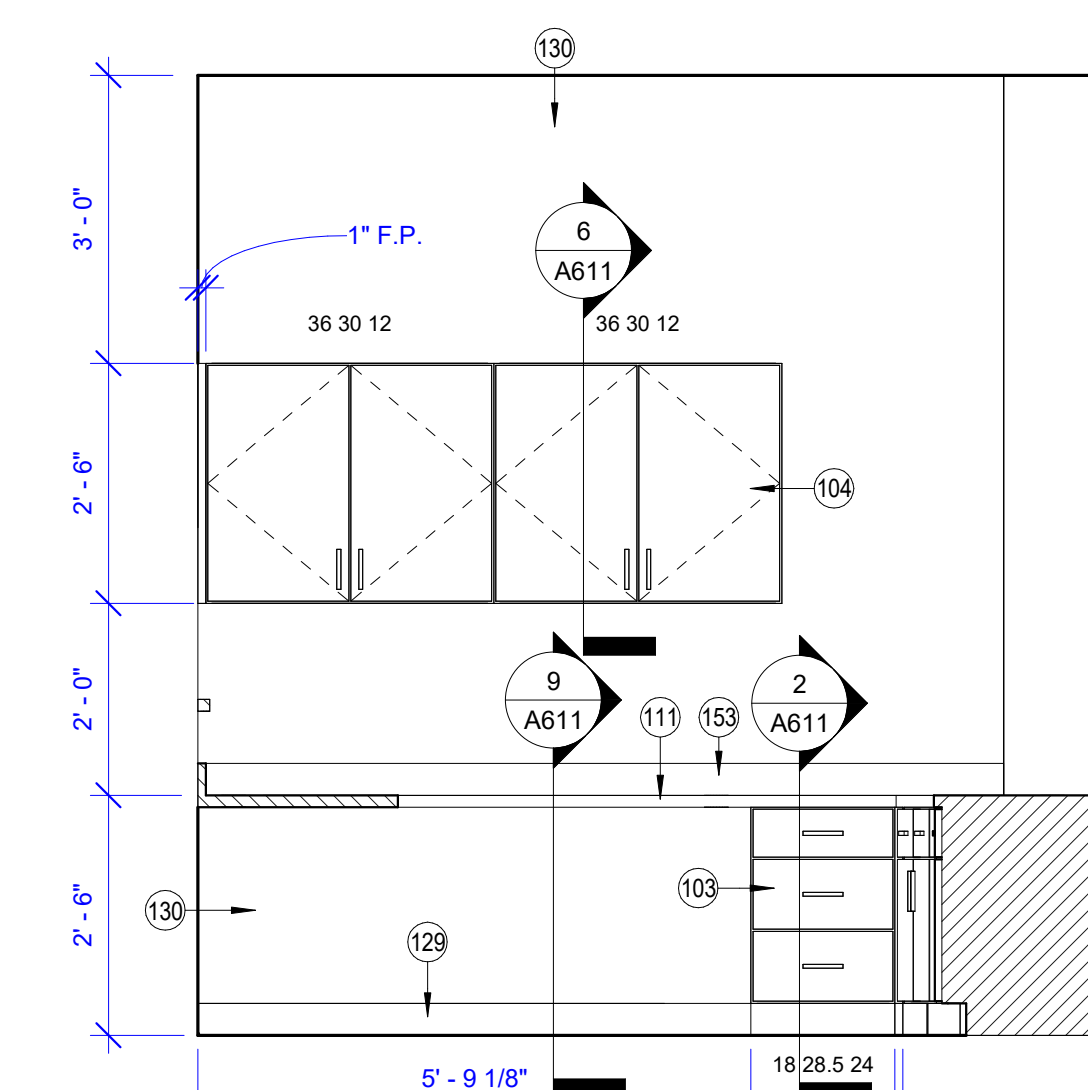
4 RECEPTION AREA - INTERIOR ELEVATION 4  
SCALE: 1/2" = 1'-0"



3 RECEPTION AREA - INTERIOR ELEVATION 3  
SCALE: 1/2" = 1'-0"



2 RECEPTION AREA - INTERIOR ELEVATION 2  
SCALE: 1/2" = 1'-0"



1 RECEPTION AREA - INTERIOR ELEVATION 1  
SCALE: 1/2" = 1'-0"

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

**CASEWORK GENERAL NOTES**

- REFER TO INTERIOR ELEVATIONS, WHICH IDENTIFY THE ROOM AND WALL ON WHICH THE CABINETRY IS LOCATED. COORDINATE CABINETRY LOCATIONS WITH FLOOR PLANS.
- SPECIALIZED CABINET SECTIONS ARE ONLY KEYED OR NOTED ON CABINET ELEVATIONS. OTHER CABINET SECTIONS ILLUSTRATE TYPICAL CONSTRUCTION & NOT EVERY DOOR AND/OR DRAWER VARIATION IS SHOWN.
- PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETRY (INCLUDING KNEE SPACES).
- PROVIDE TRIM AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
- PROVIDE BACKSPLASH WHERE COUNTERTOP ABUTS WALL AT SIDES - U.N.O.
- PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS (2 PER KNEE SPACE). LOCATE IN FIELD W/ ARCHITECT OR OWNER. GROMMET COLOR TO BE BLACK.
- PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINETRY ATTACHED TO WALLS. SEE SECTION DETAILS FOR ATTACHMENT INFORMATION.
- FILE DRAWERS ARE NOTED ON ELEVATIONS.
- CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O. ON ELEVATION(S).
- PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER WALL CABINETS TO CLOSE OFF ALL CONCEALED OPENINGS (I.E., KEEP VERMIN OUT).
- AT THE BOTTOM OF INDIVIDUAL UPPER CABINET UNITS, ALLOW FOR CONTINUOUS RUNS OF UNDERCOUNTER LIGHTS; REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.
- ALL WOOD TO BE FIRE TREATED.
- ALL DOORS AT DRAWER FACES TO BE FLUSH WITH THE FACE OF FILLER PANELS AT SCRIBES. PROVIDE FILLER PANELS, WALL SCRIBES, FINISH FURR DOWNS, AND ALL OTHER COMPONENTS FLUSH WITH FACES OF DOORS AND DRAWERS.
- ALL MILLWORK DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION.
- ALL WOOD GRAIN LAMINATE TO BE INSTALLED WITH GRAIN RUNNING VERTICALLY - U.N.O.
- FINISHED END SUPPORT PANEL EDGES TO BE EDGE BANDED.
- ALL BASE CABINET TOE KICK FACES TO BE PAINT-GRADE FINISH.
- ALL CABINETS AND DRAWERS ARE TO RECEIVE LOCKS, U.N.O.

**KEYNOTE SCHEDULE**

KEY VALUE	KEYNOTE TEXT
101	SOLID SURFACE COUNTERTOP, SS-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
102	REFRIGERATOR (O.F.C.I.)
103	P.LAM BASE CABINETS, PLAM-03 (RE: FINISH PLANS AND FINISH SCHEDULE)
104	P.LAM UPPER CABINETS, PLAM-02 (RE: FINISH PLANS AND FINISH SCHEDULE)
107	SINGLE BOWL STAINLESS STEEL SINK, (RE: PLUMBING DWGS.)
111	P.LAM SURFACE COUNTERTOP, PLAM-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
112	3" DIAMETER GROMMETS W/ PLATE COVER, BLACK COLOR FINISH
114	SURFACE MOUNTED PAPER TOWEL DISPENSER; RE: G101 FOR MOUNTING HEIGHT & A501 FOR TOILET ACCESSORY SCHEDULE
122	UNDERCOUNTER FRIDGE (O.F.C.I.)
124	MICROWAVE (O.F.C.I.)
128	PAINT EXISTING COLUMN, PT-1 (RE: FINISH SCHEDULE)
129	RUBBER BASE, RB-01 (RE: FINISH SCHEDULE)
130	FIELD PAINTED GYP WALL, PT-01 (RE: FINISH SCHEDULE)
131	ACCENT PAINTED GYP WALL, PT-02 (RE: FINISH SCHEDULE)
132	ACCENT PAINTED GYP WALL, PT-03 (RE: FINISH SCHEDULE)
133	ACCENT PAINTED GYP WALL, PT-04 (RE: FINISH SCHEDULE)
136	ACCENT WALL TILE ON GYP BOARD, WTL-03 (RE: FINISH SCHEDULE)
137	ACCENT WALL TILE ON GYP BOARD, WTL-04 (RE: FINISH SCHEDULE)
138	P.LAM INTERIOR FINISH, PLAM-04 (RE: FINISH SCHEDULE)
139	P.LAM INTERIOR FINISH, PLAM-05 (RE: FINISH SCHEDULE)
140	P.LAM INTERIOR FINISH, PLAM-06 (RE: FINISH SCHEDULE)
141	P.LAM FLOATING SHELF, PLAM-01 (RE: FINISH SCHEDULE & DETAIL 17/A611)
144	BENCH WITH VINYL CUSHION, FB-01 (RE: FINISH SCHEDULE)
145	FLOW METER LOCATION, COORDINATE WITH MIDWEST DENTAL CONSULTANT FOR DETAILS
147	1X1 WOOD S4S MOULDING, PAINTED PT-02 (RE: FINISH SCHEDULE)
148	1X1 WOOD S4S MOULDING, PAINTED PT-03 (RE: FINISH SCHEDULE)
149	1X1 WOOD S4S MOULDING, PAINTED PT-04 (RE: FINISH SCHEDULE)
150	VINYL BENCH SEAT COVERING (RE: FINISH SCHEDULE)
153	4" P.LAM SURFACE BACKSPLASH, PLAM-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
154	4" SOLID SURFACE BACKSPLASH, SS-01 (RE: FINISH PLANS AND FINISH SCHEDULE)
155	P.LAM FLOATING SHELF, PLAM-01 (RE: FINISH SCHEDULE)
157	EXISTING WINDOW
158	RUBBER BASE, RB-02 (RE: FINISH SCHEDULE)
159	SATIN BRUSHED NICKEL BASE

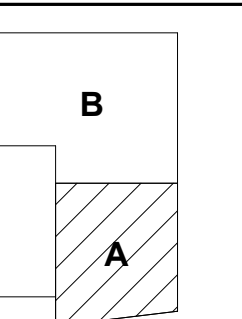
#	DESCRIPTION	DATE

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

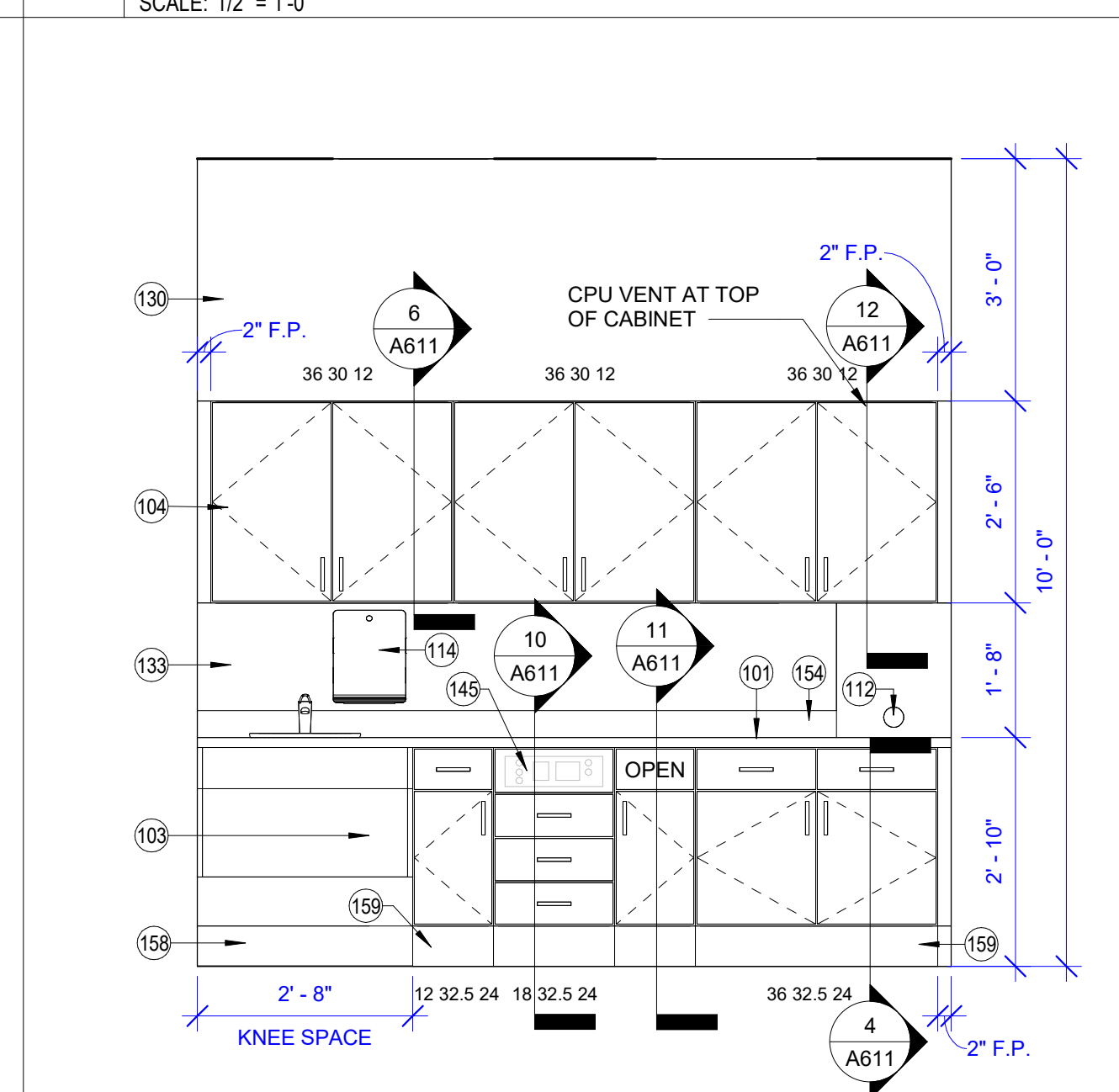
24017

**DATE**

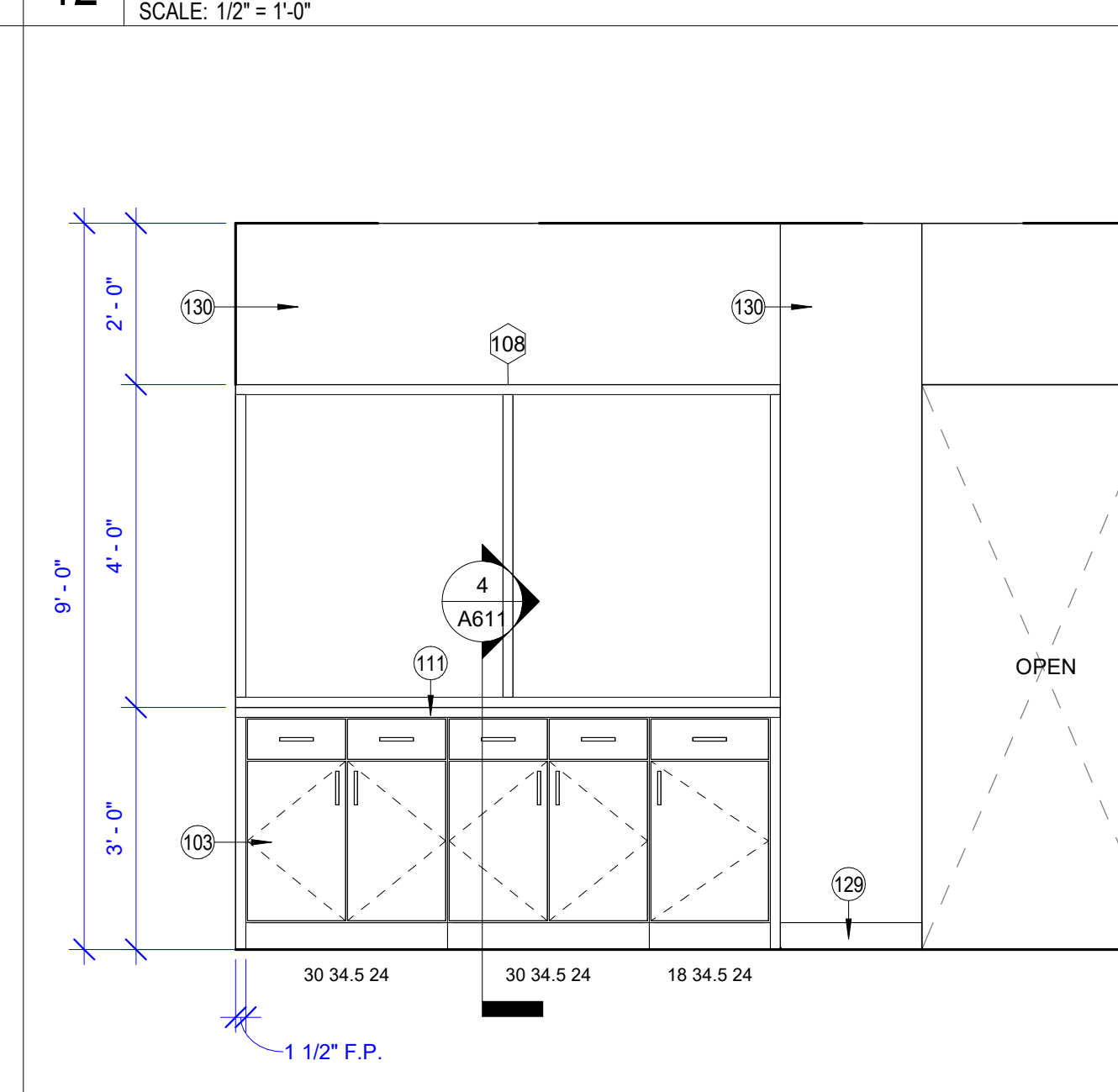
05/30/24

**INTERIOR ELEVATIONS**

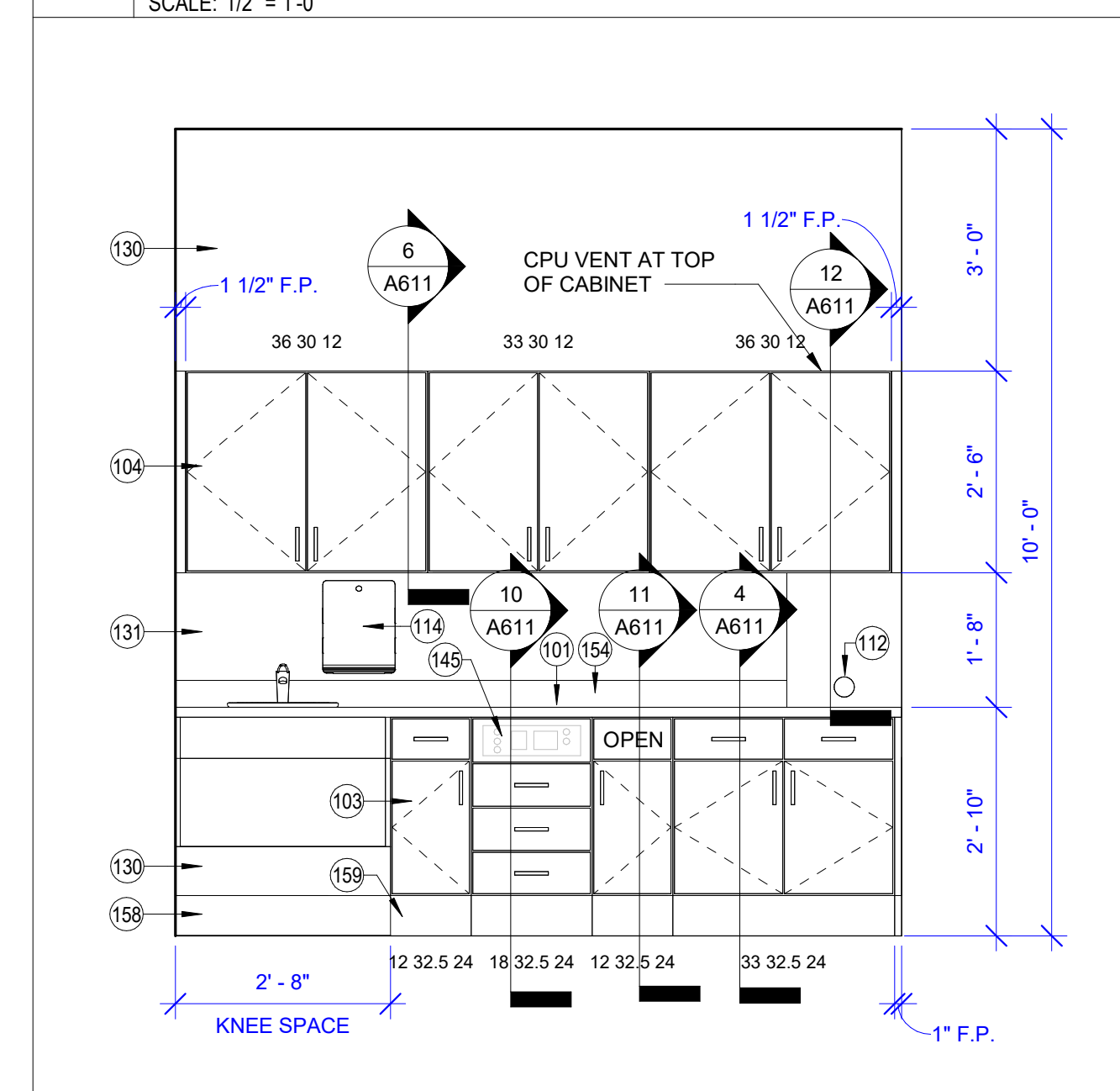
**17 OP ROOM 2 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"



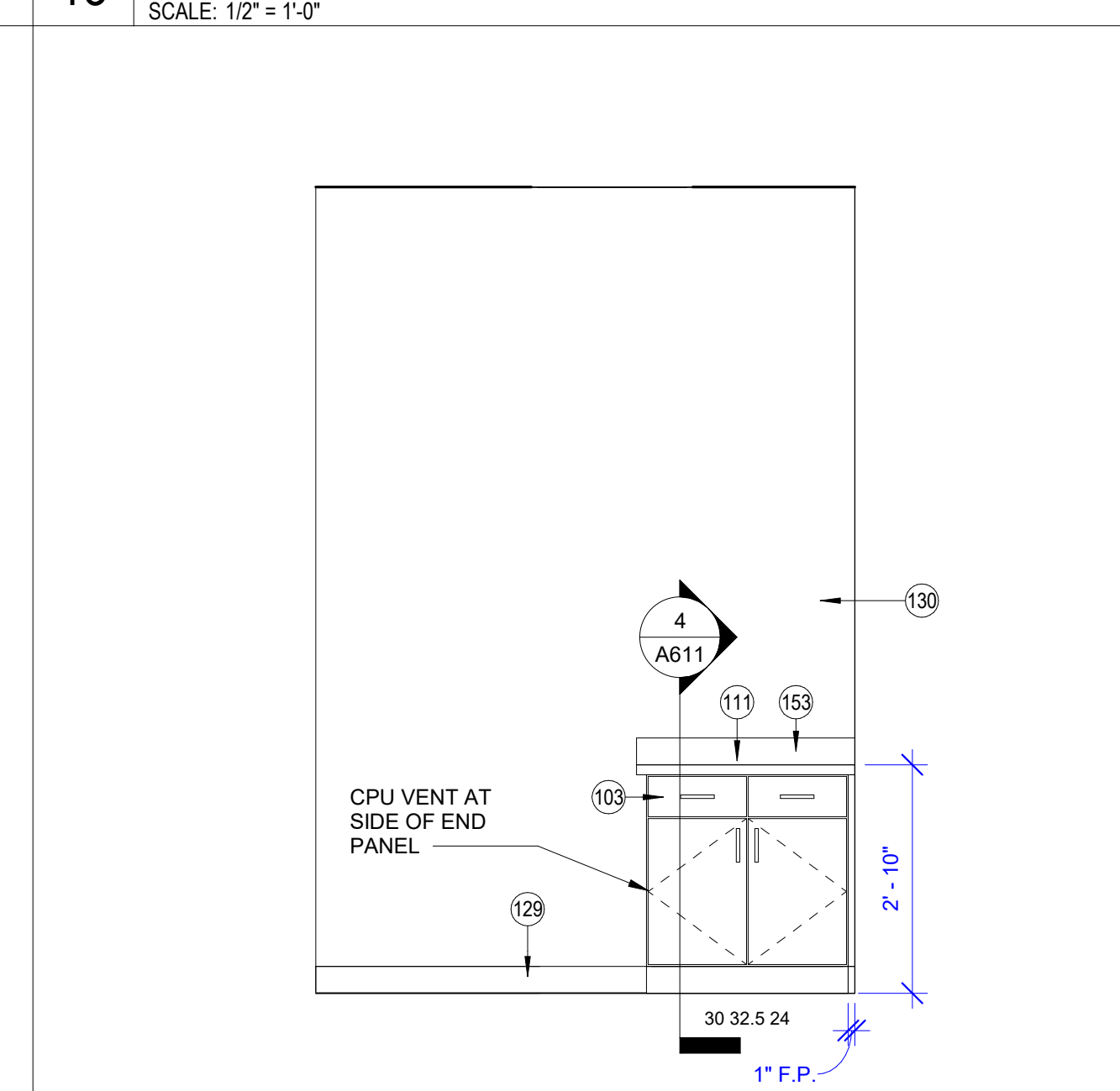
**12 OP ROOM 1 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"



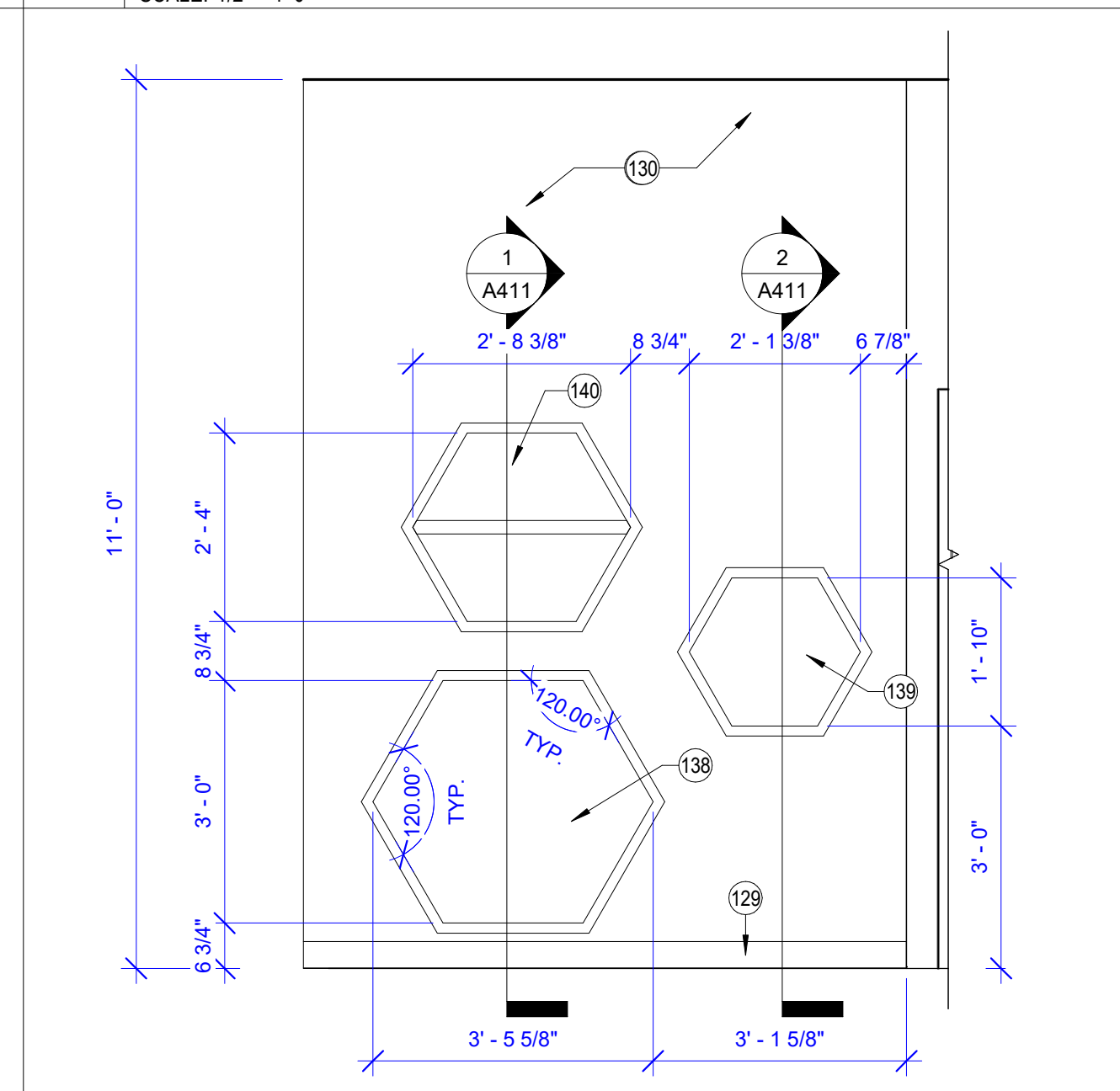
**18 BREAK ROOM INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"



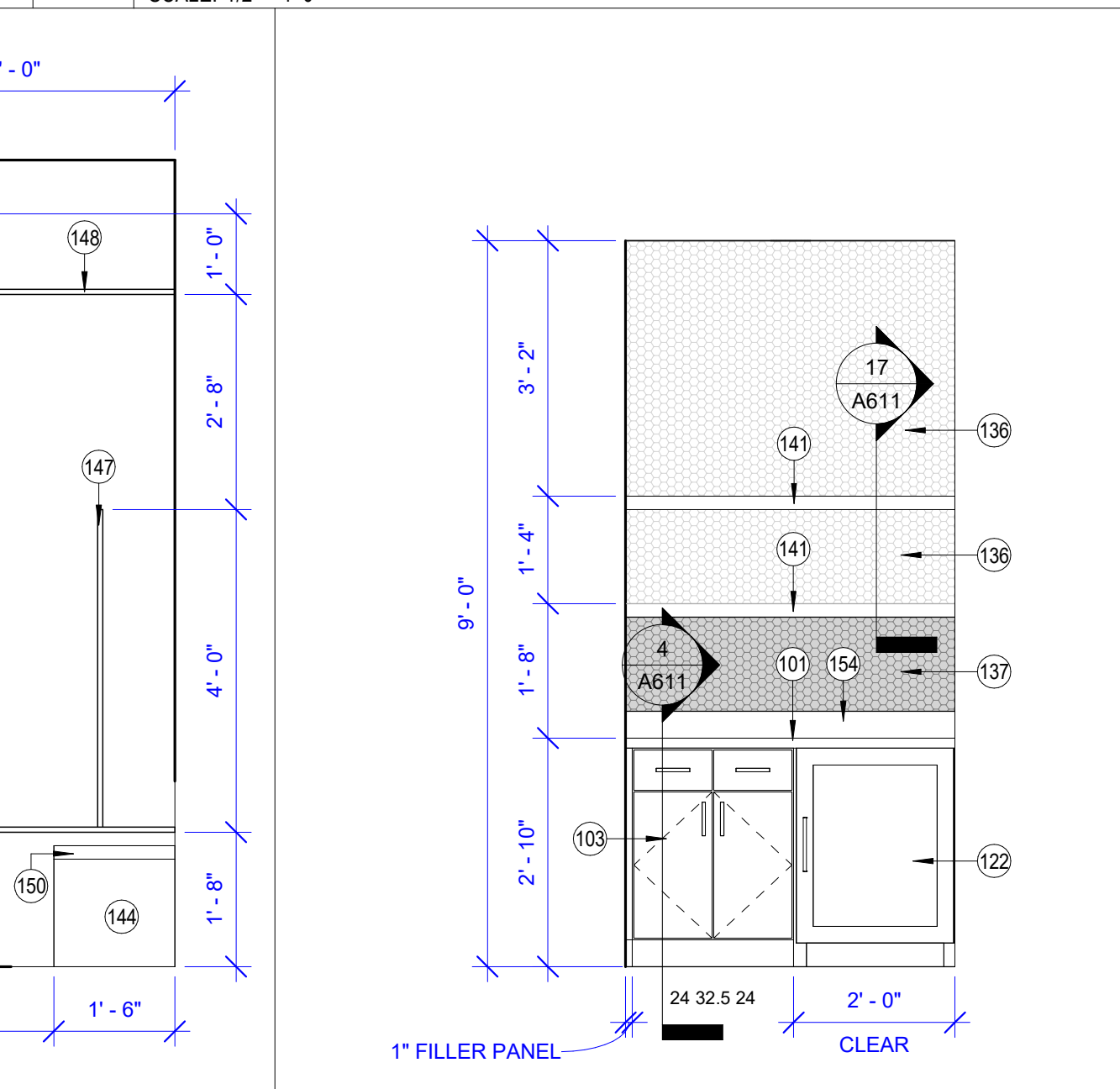
**13 SURGICAL SUITE INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"



**7 STERILIZATION INTERIOR ELEVATION - 1**  
SCALE: 1/2" = 1'-0"



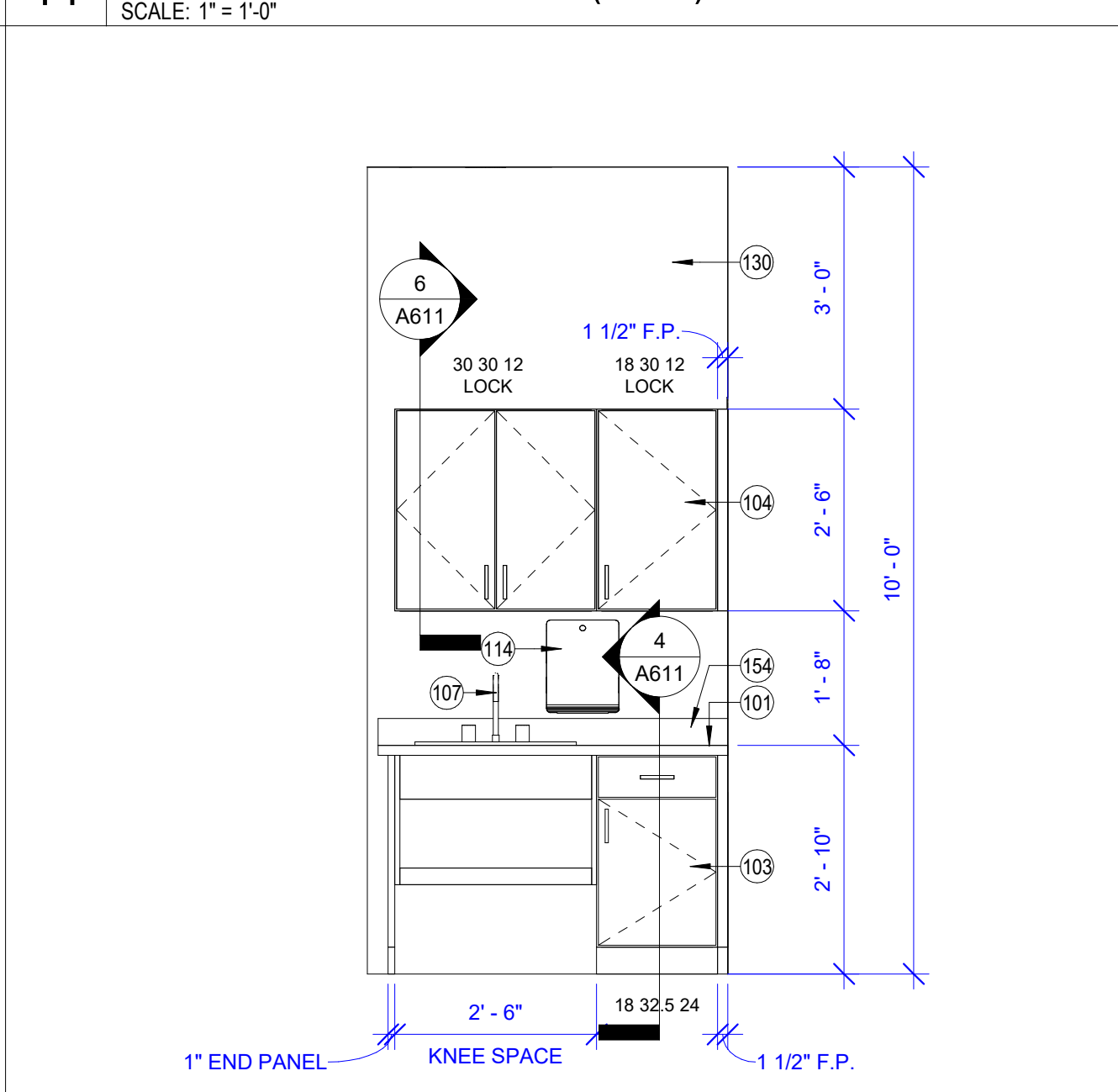
**8 X-RAY INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"



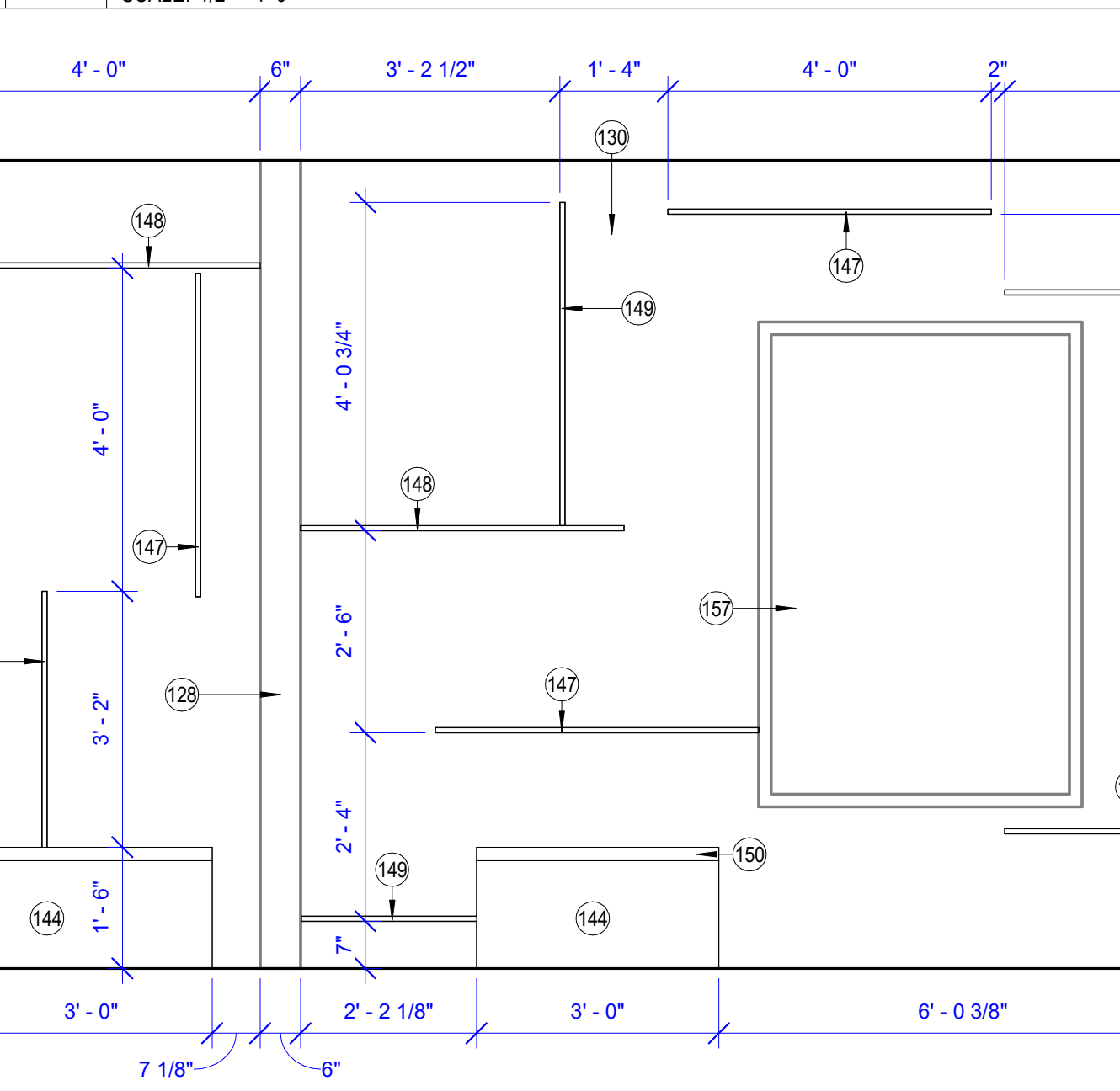
**2 COFFEE BAR AREA**  
SCALE: 1/2" = 1'-0"



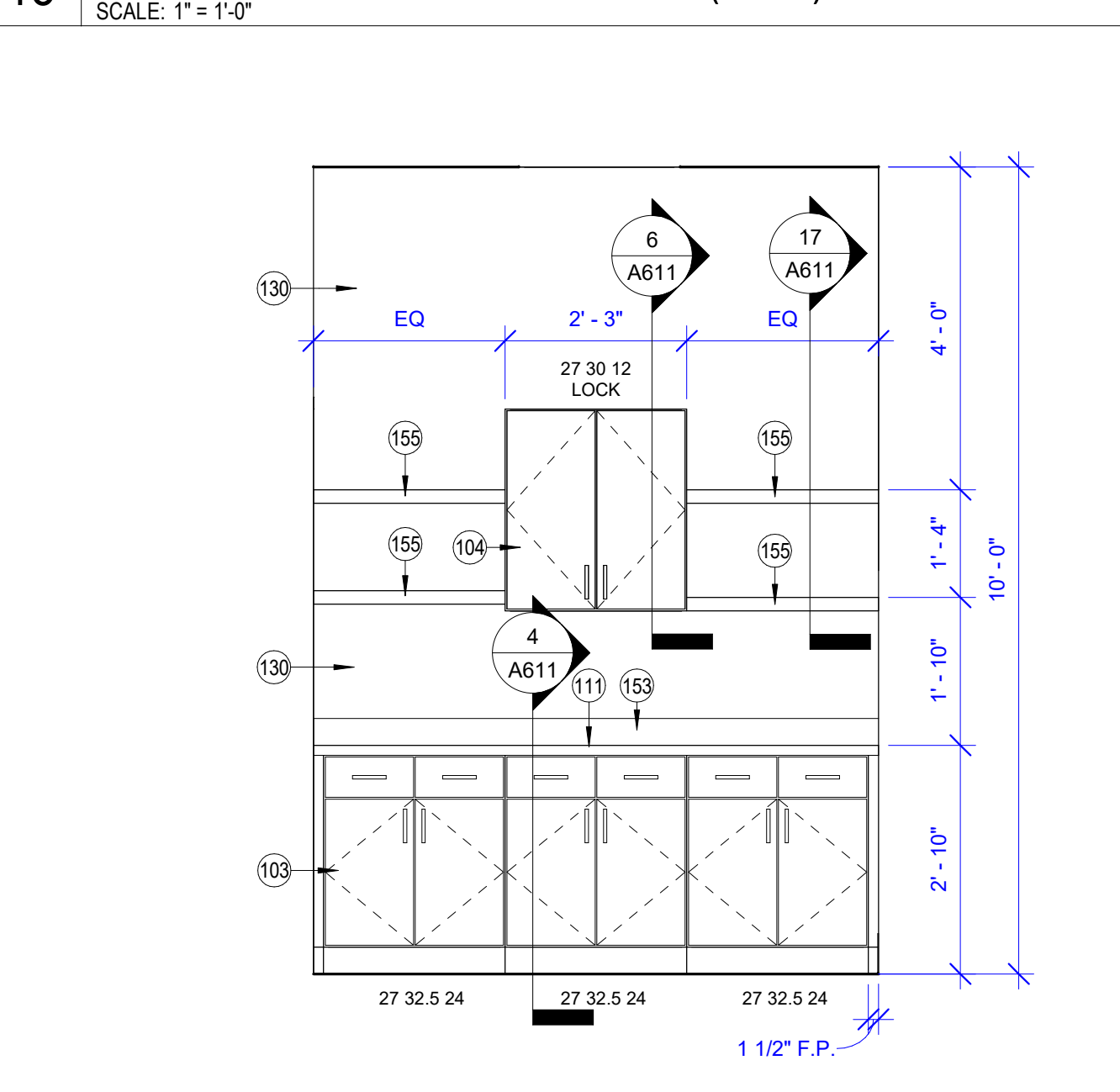
**14 HYGINE STATION SIDE (TYP.)**  
SCALE: 1" = 1'-0"



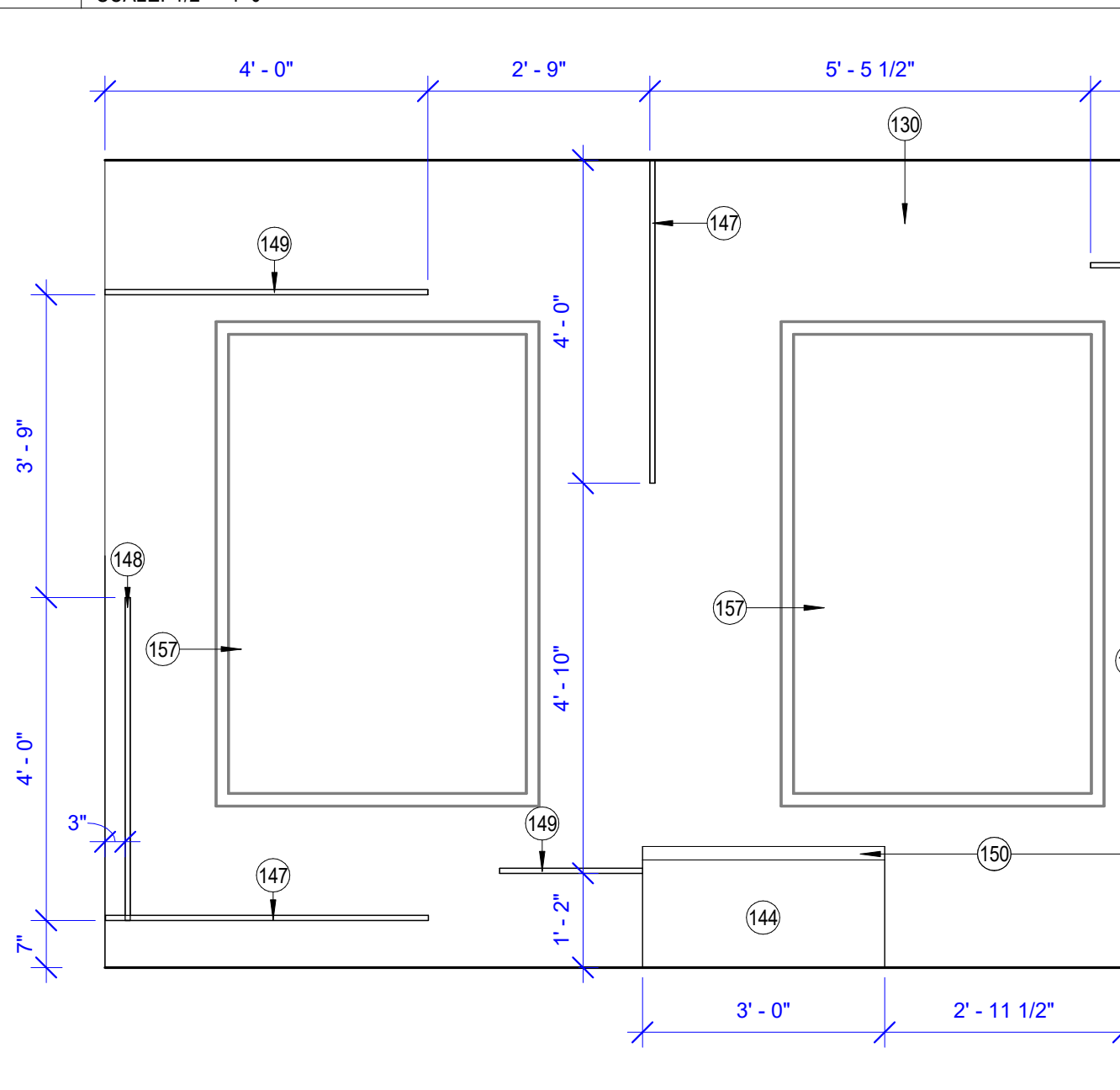
**9 HYGINE STATION AREA - SINK**  
SCALE: 1/2" = 1'-0"



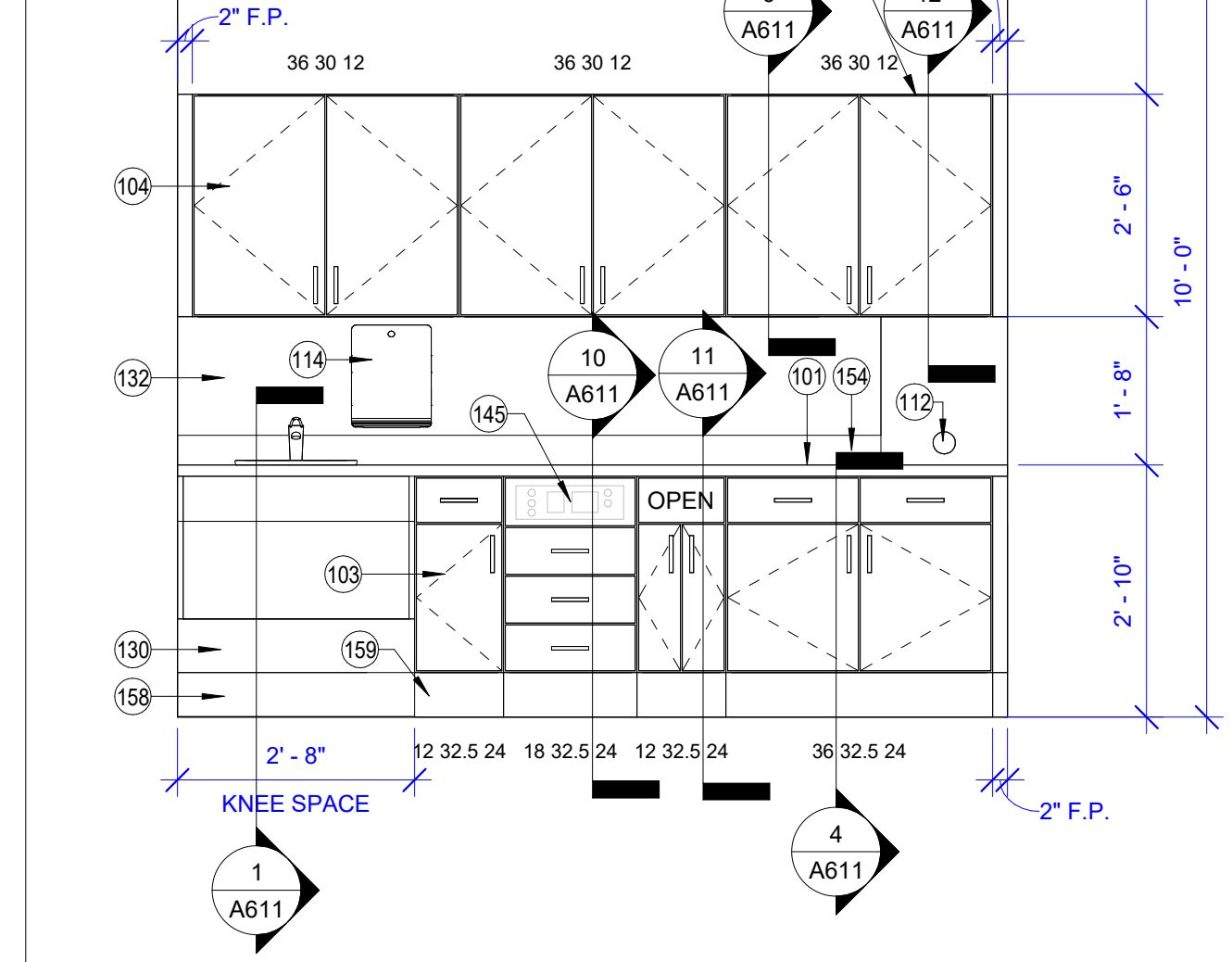
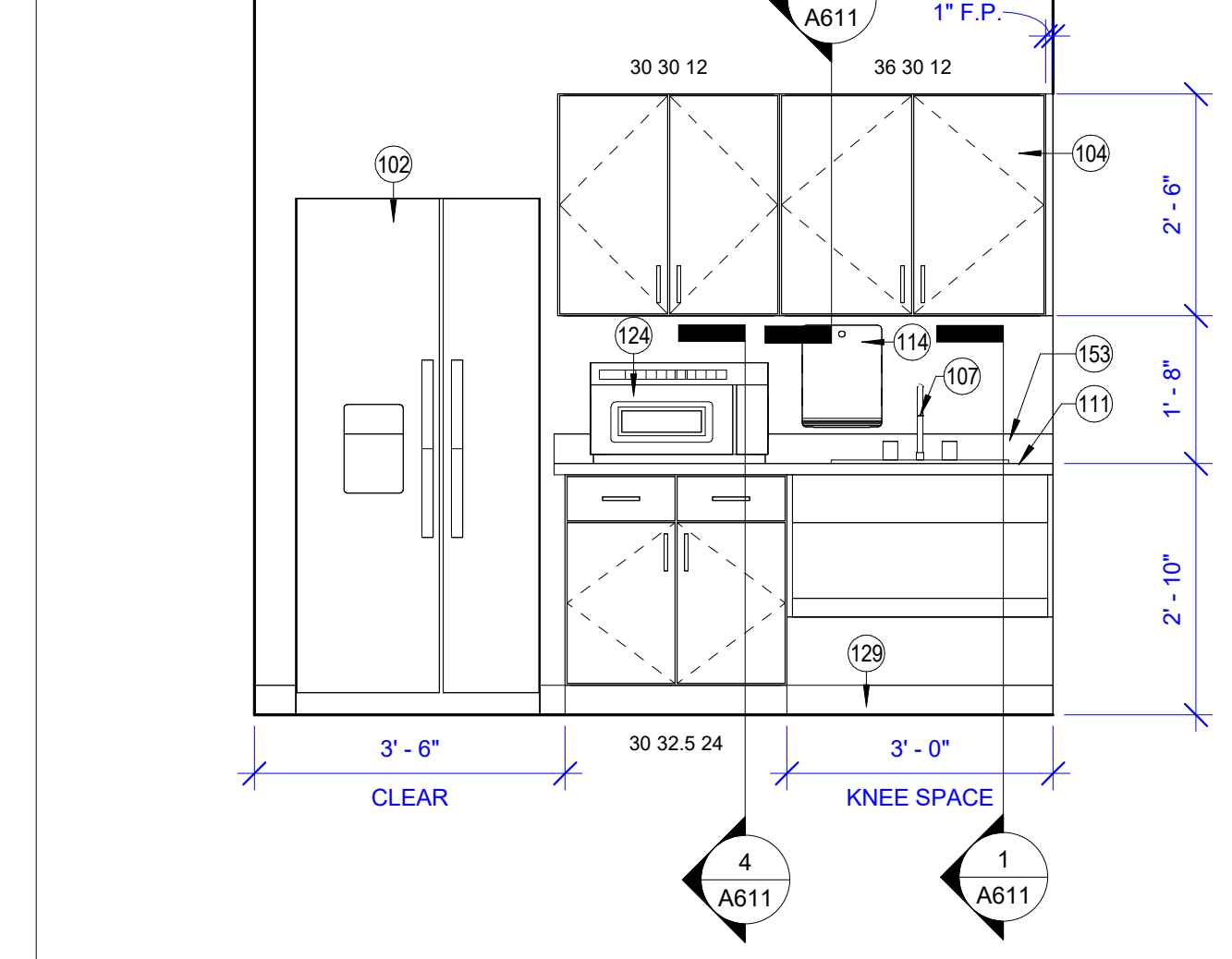
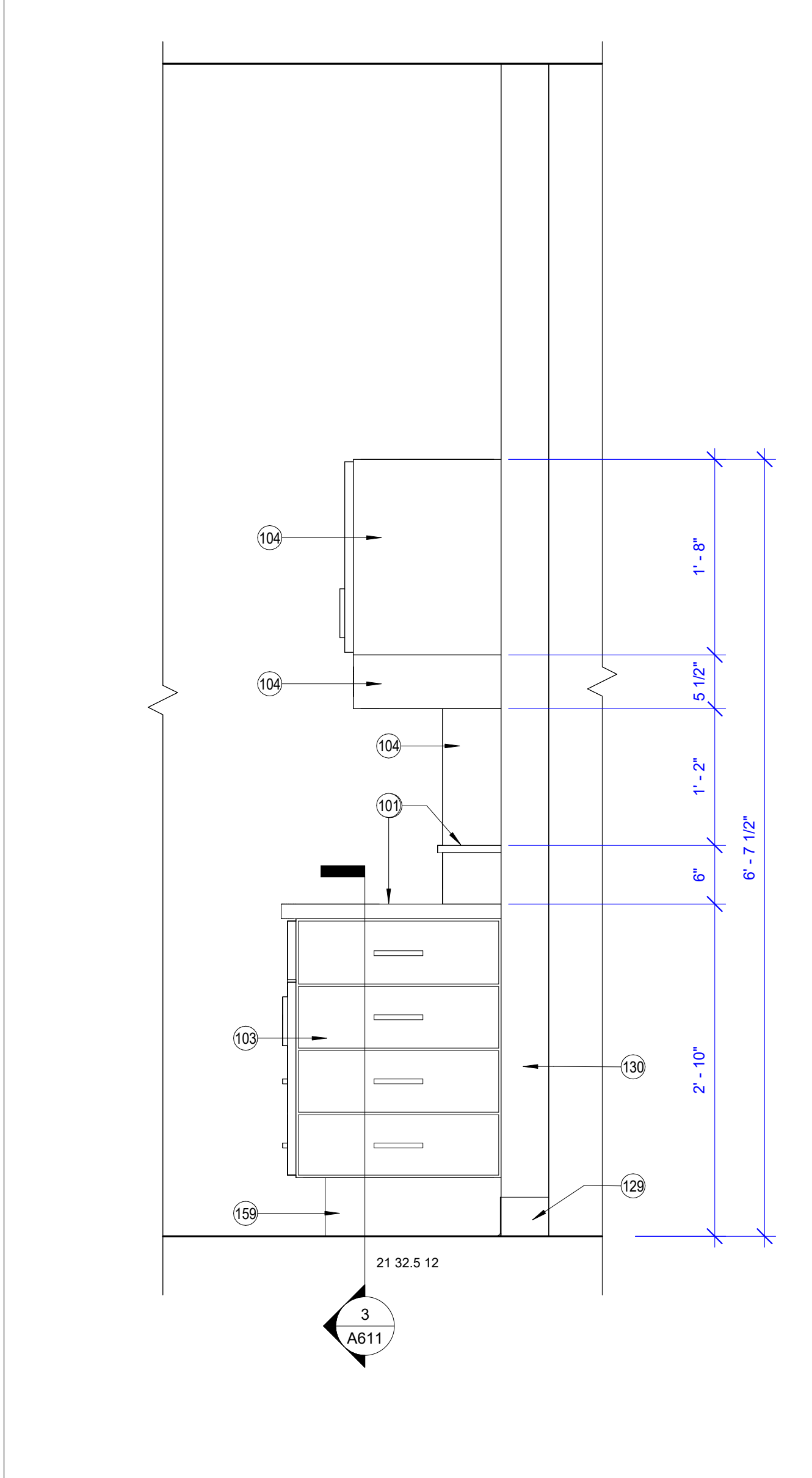
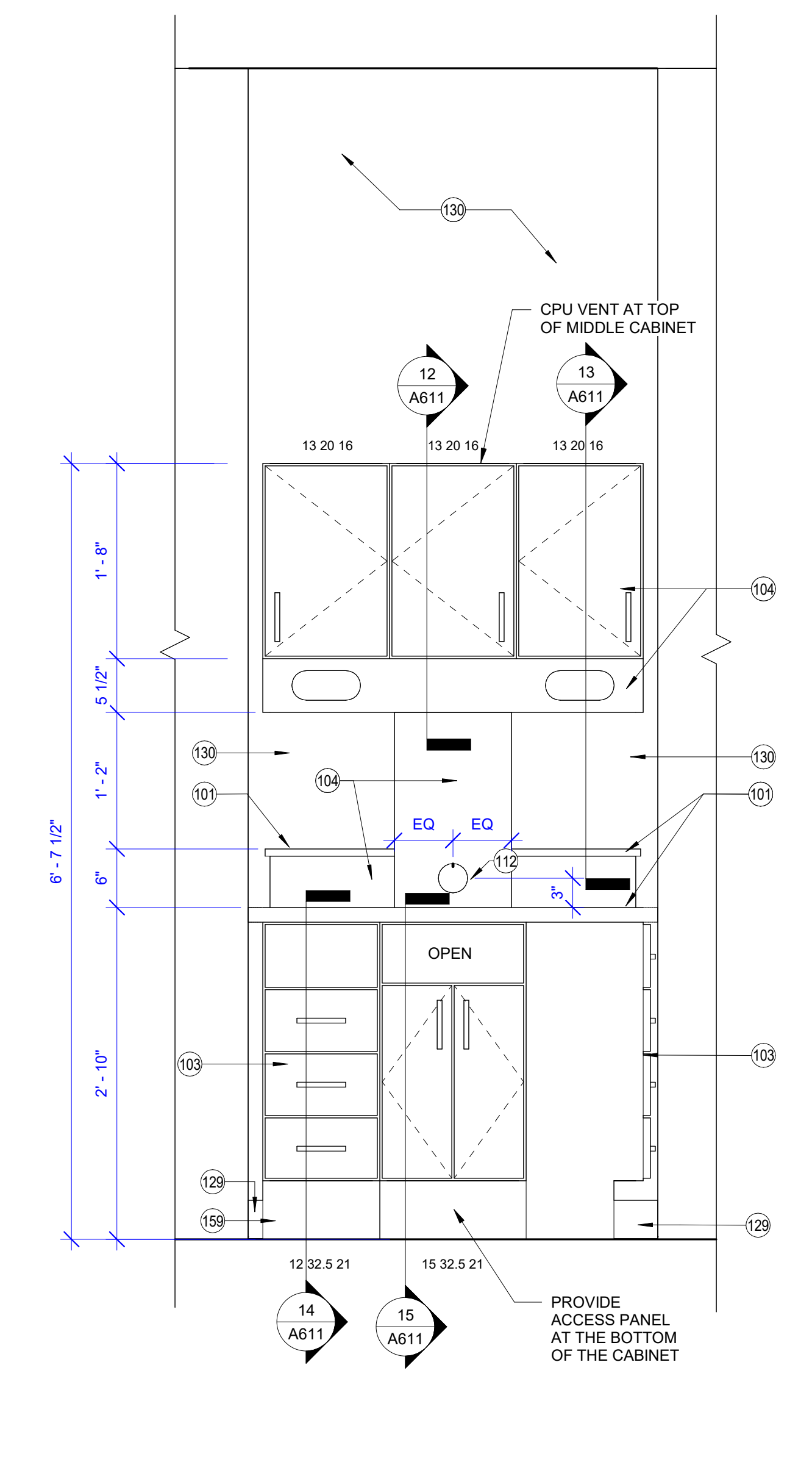
**15 HYGINE STATION HEAD WALL (TYP.)**  
SCALE: 1" = 1'-0"



**10 OFFICE INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"



**5 HYGINE STATION ACCENT WALL**  
SCALE: 1/2" = 1'-0"



**PROJECT TEAM**

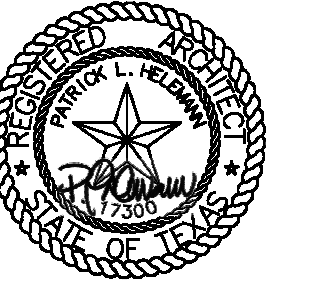
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

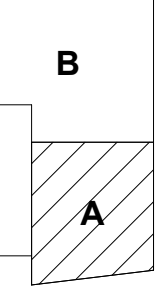
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**  
ISSUE FOR PERMIT  
**PROJECT NAME**  
SUPER KIDS DENTAL  
**PROJECT ADDRESS**  
6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741  
**PROJECT NUMBER**  
24017  
**DATE**  
05/30/24

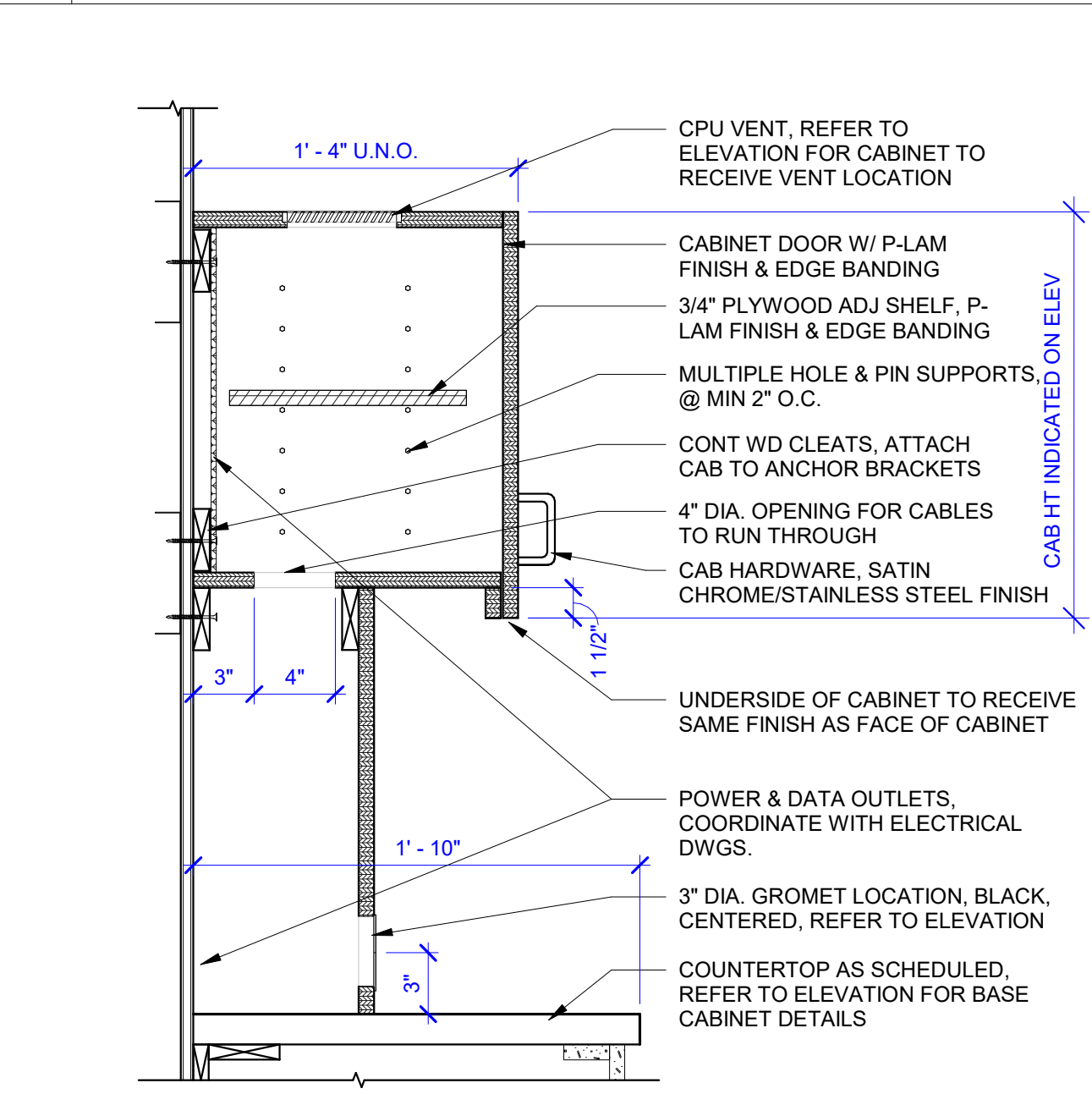
**MILLWORK DETAILS**

**A611**

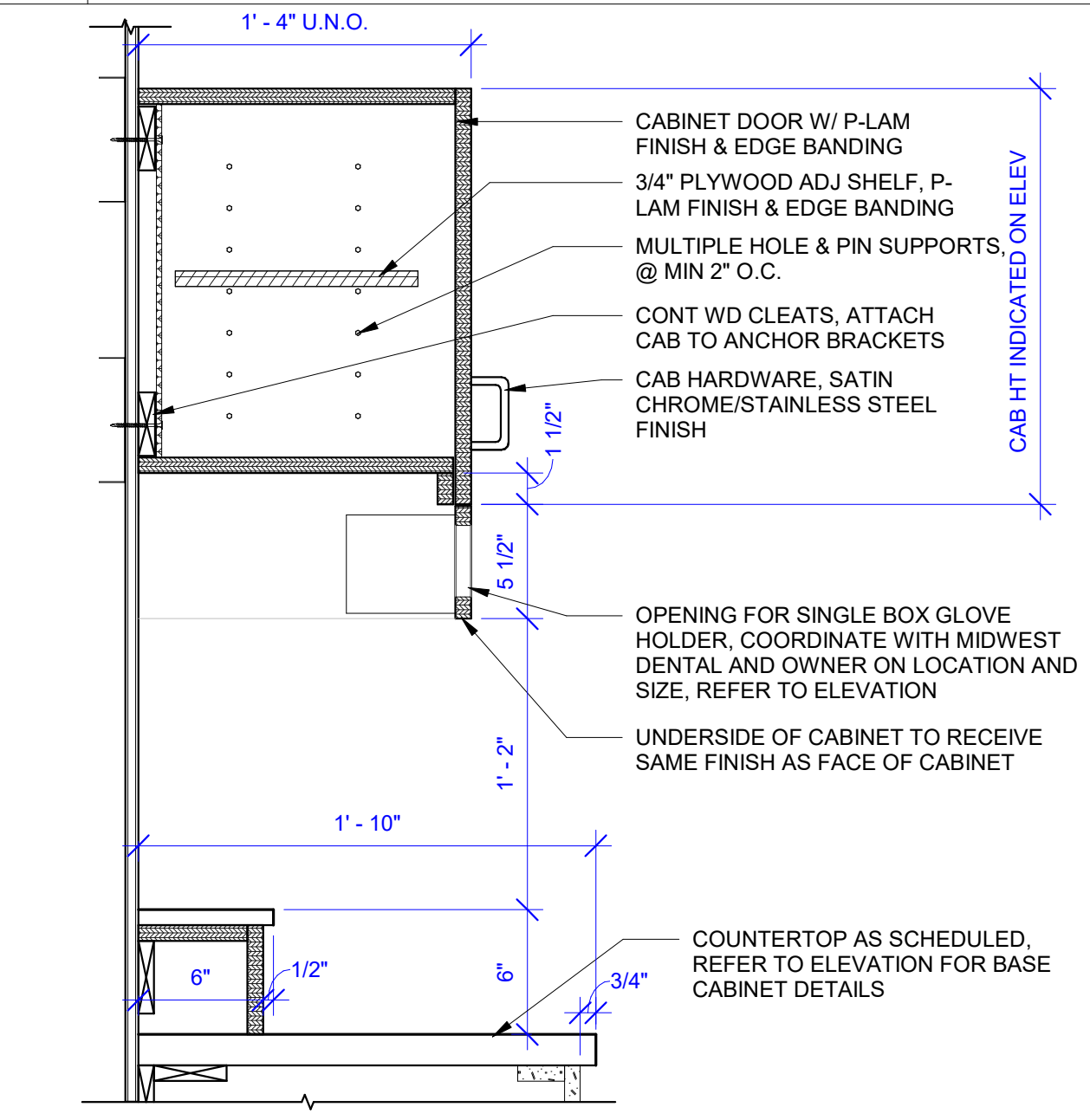
**MILLWORK GENERAL NOTES**

- REFER TO INTERIOR ELEVATIONS, WHICH IDENTIFY THE ROOM AND WALL ON WHICH THE CABINERY IS LOCATED. COORDINATE CABINERY LOCATIONS WITH FLOOR PLANS.
- SPECIALIZED CABINET SECTIONS ARE ONLY KEYS OR NOTED ON CABINET ELEVATIONS. OTHER CABINET SECTIONS ILLUSTRATE TYPICAL CONSTRUCTION & NOT EVERY DOOR AND/OR DRAWER VARIATION IS SHOWN.
- PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN-ENDED CABINERY (INCLUDING KNEE SPACES).
- PROVIDE TRIM, END AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
- PROVIDE BACKSPLASH WHERE COUNTERTOP ABUTS WALL AT SIDES - U.N.O.
- PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS (2 PER KNEE SPACE). LOCATE IN FIELD W/ ARCHITECT OR OWNER. GROMMET COLOR TO BE BLACK.
- PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINERY ATTACHED TO WALLS. SEE SECTION DETAILS FOR ATTACHMENT INFORMATION.
- FILE DRAWERS ARE NOTED ON ELEVATIONS.
- CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O. ON ELEVATION(S).
- PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER WALL CABINETS TO CLOSE OFF ALL CONCEALED OPENINGS (I.E., KEEP VERMIN OUT).
- AT THE BOTTOM OF INDIVIDUAL UPPER CABINET UNITS, ALLOW FOR CONTINUOUS RUNS OF UNDERCOUNTER LIGHTS; REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.
- ALL WOOD TO BE FIRE TREATED.
- ALL DOORS AT DRAWER FACES TO BE FLUSH WITH THE FACE OF FILLER PANELS AT SCRIBES. PROVIDE FILLER PANELS, WALL SCRIBES, FINISH FURR DOWNS, AND ALL OTHER COMPONENTS FLUSH WITH FACES OF DOORS AND DRAWERS.
- ALL MILLWORK DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION.
- ALL WOOD GRAIN LAMINATE TO BE INSTALLED WITH GRAIN RUNNING VERTICALLY - U.N.O.
- FINISHED END SUPPORT PANEL EDGES TO BE EDGE BANDED.
- ALL BASE CABINET TOE KICK FACES TO BE PAINT-GRADE FINISH.
- ALL CABINETS AND DRAWERS ARE TO RECEIVE LOCKS, U.N.O.

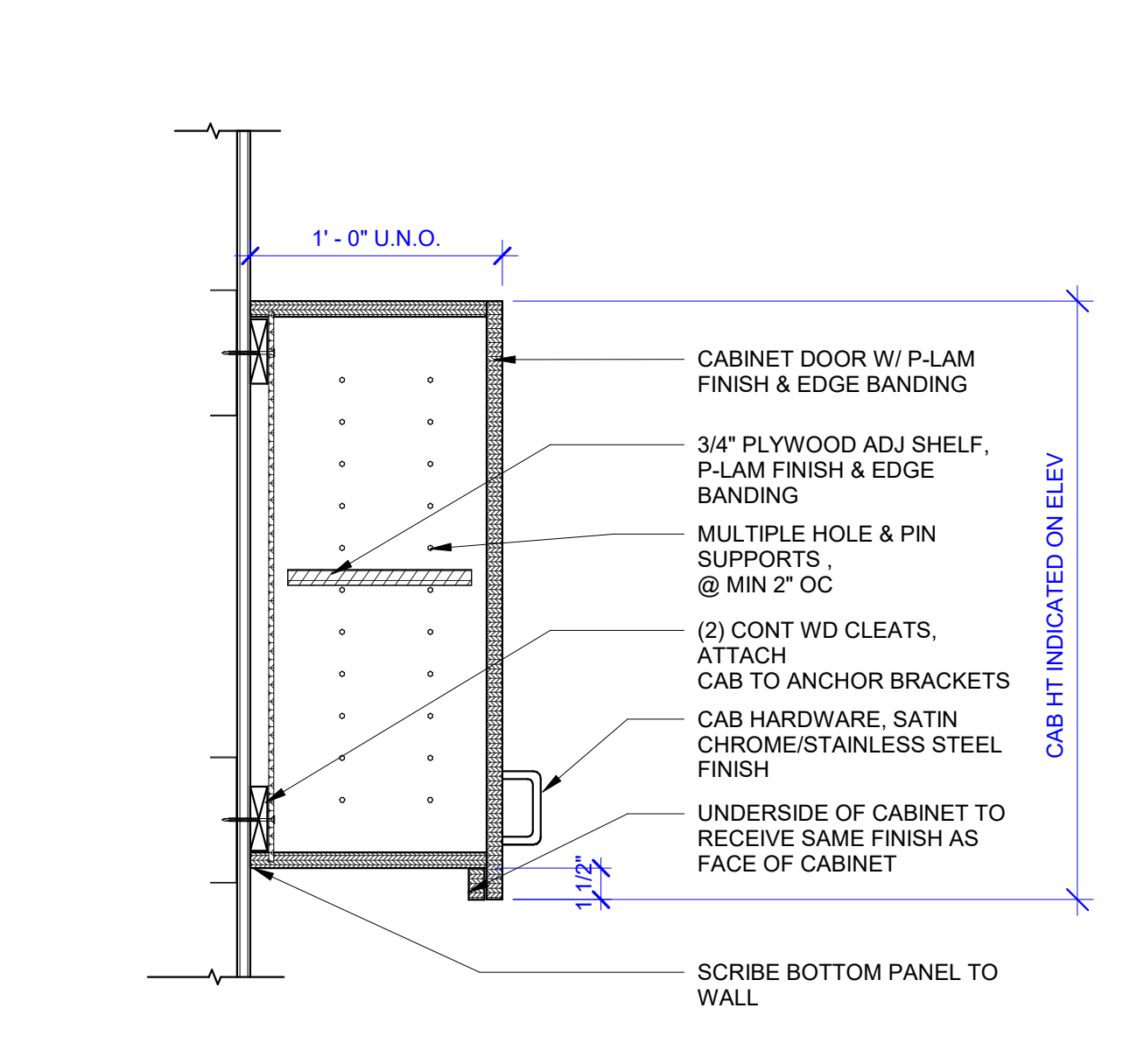
**17 FLOATING SHELF MILLWORK DETAIL**



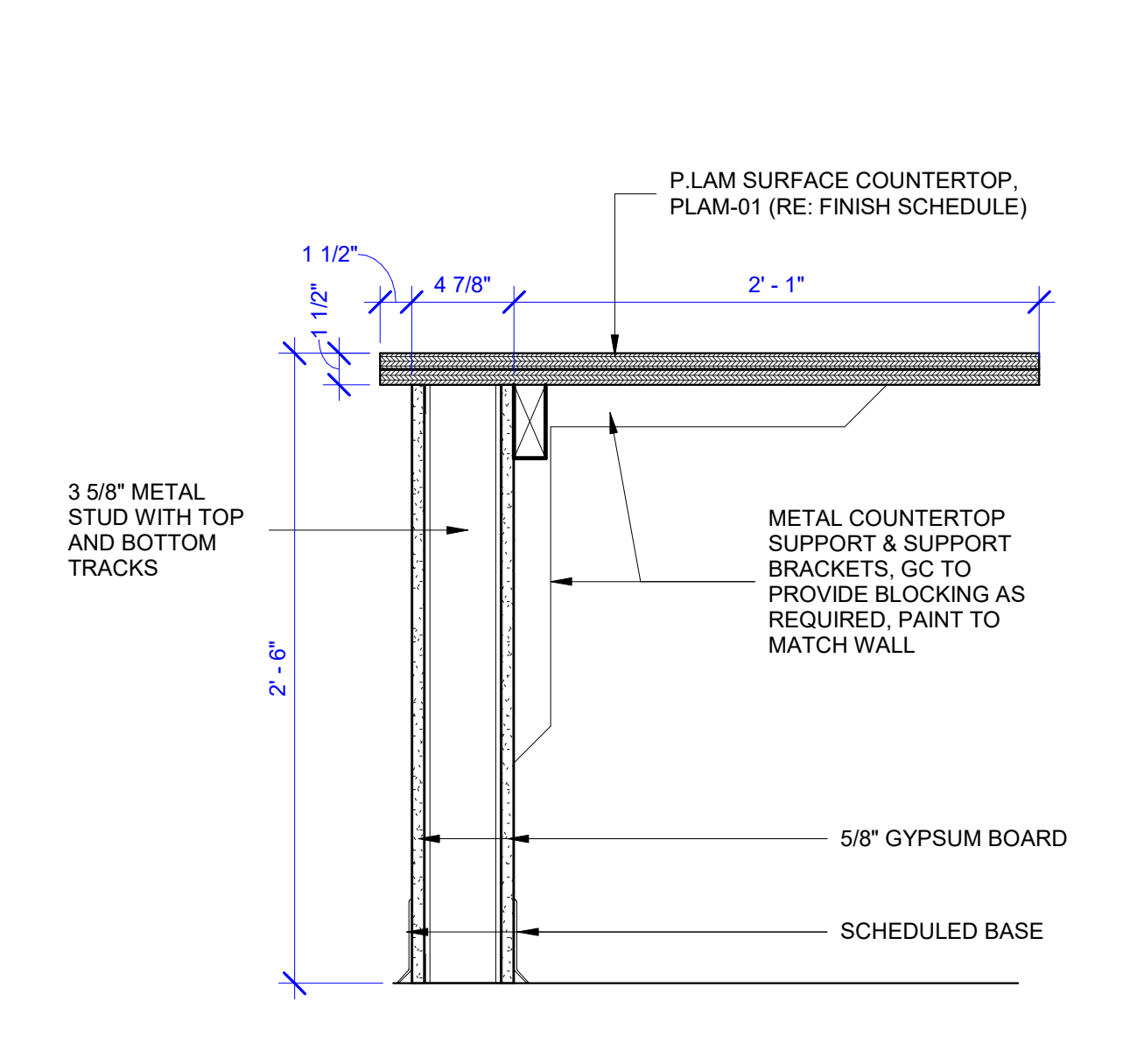
**18 TYP. COUNTERTOP CORNERS**



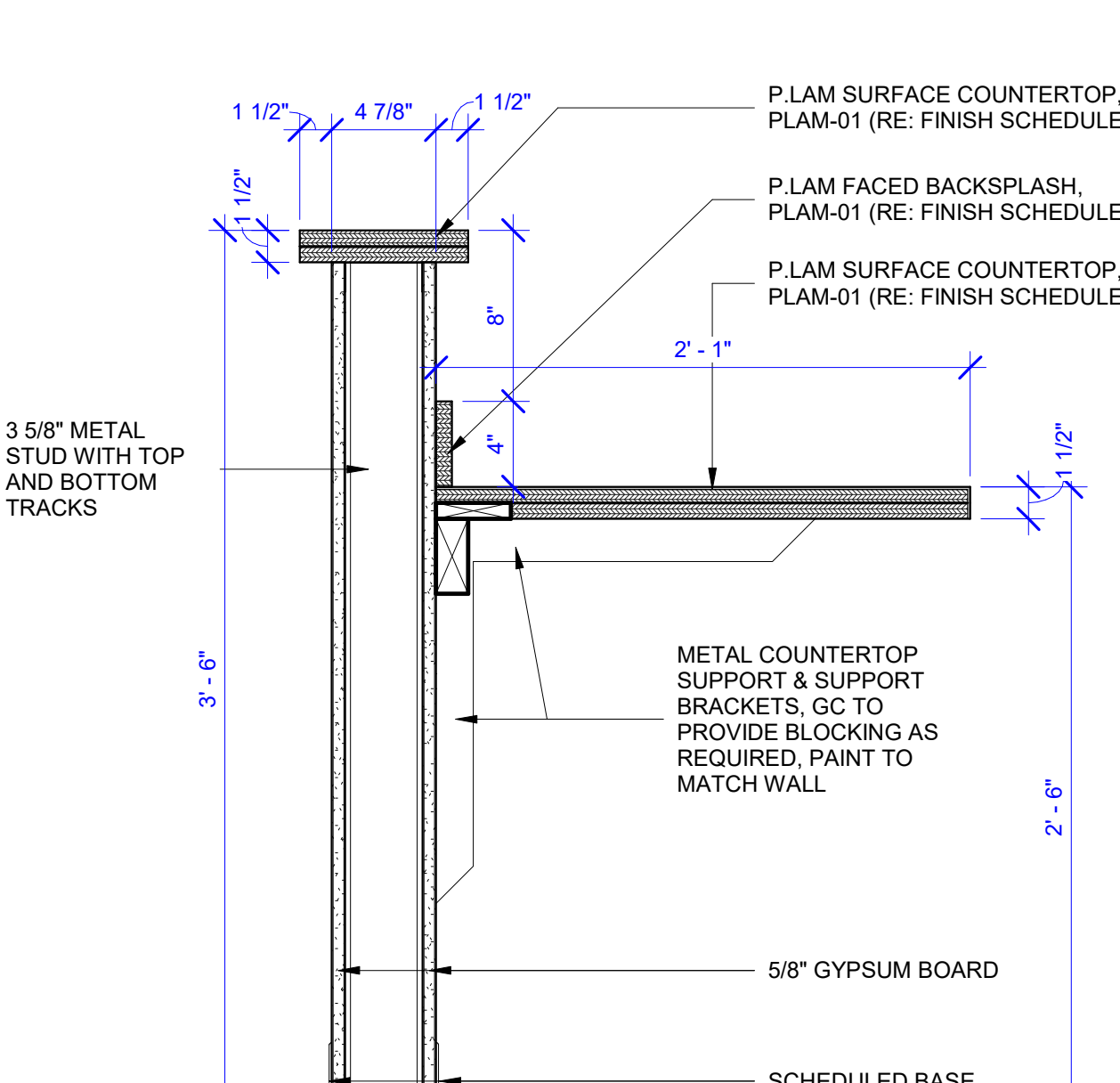
**11 DENTAL BASE CABINET W/ DOOR**



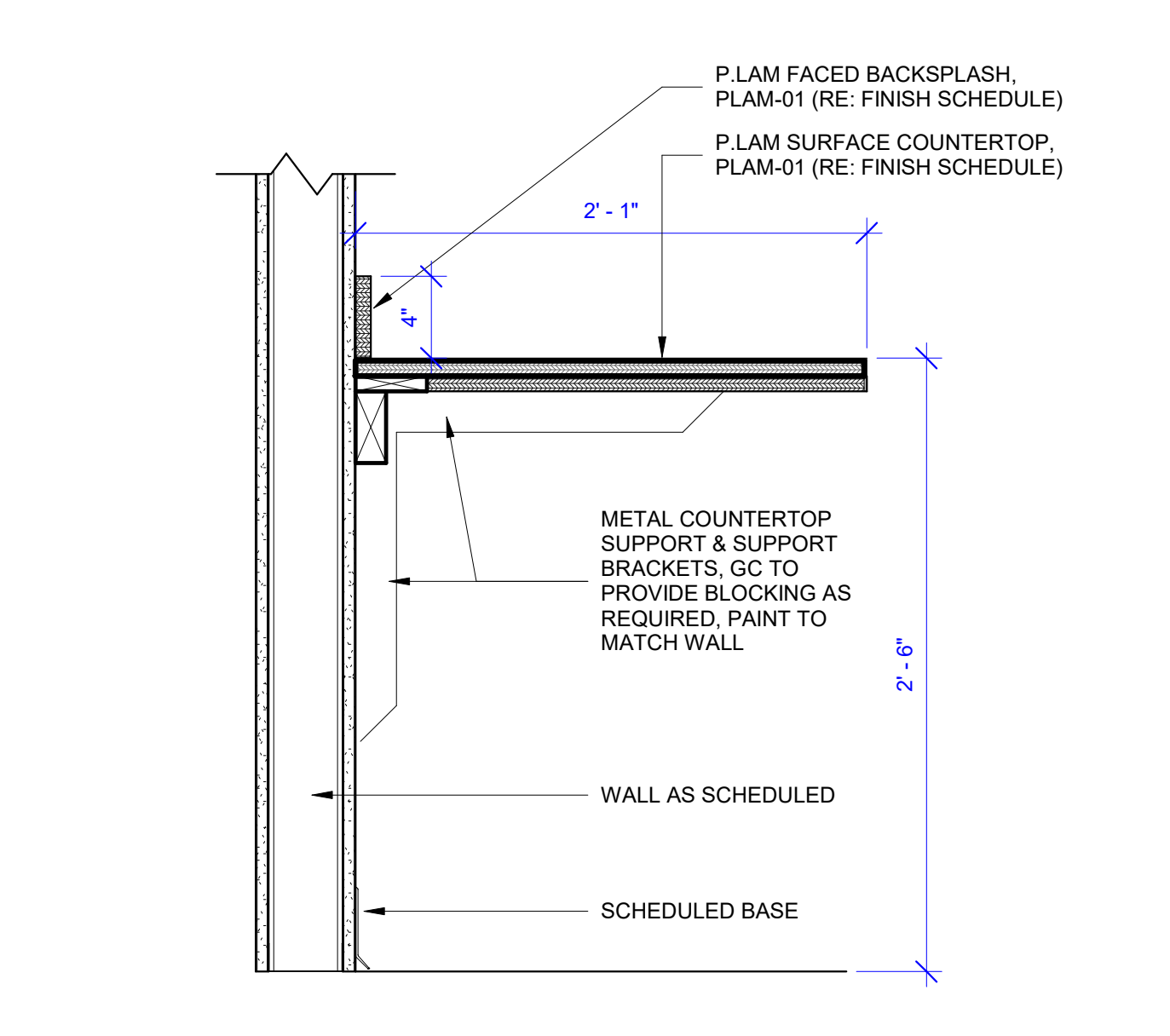
**12 DENTAL UPPER CABINET @ HEADWALL CENTER**



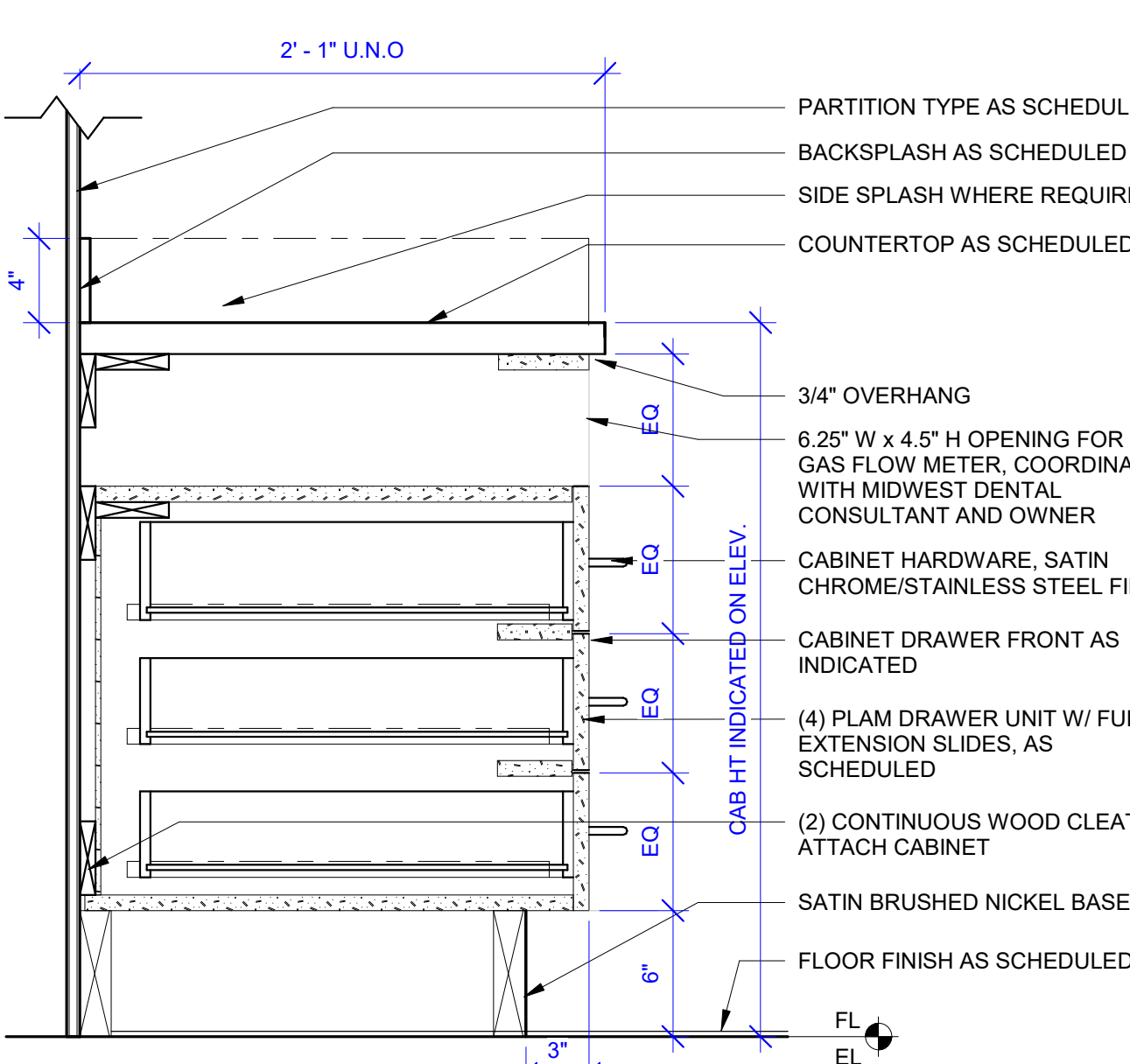
**13 DENTAL UPPER CABINET @ HEADWALL SIDE**



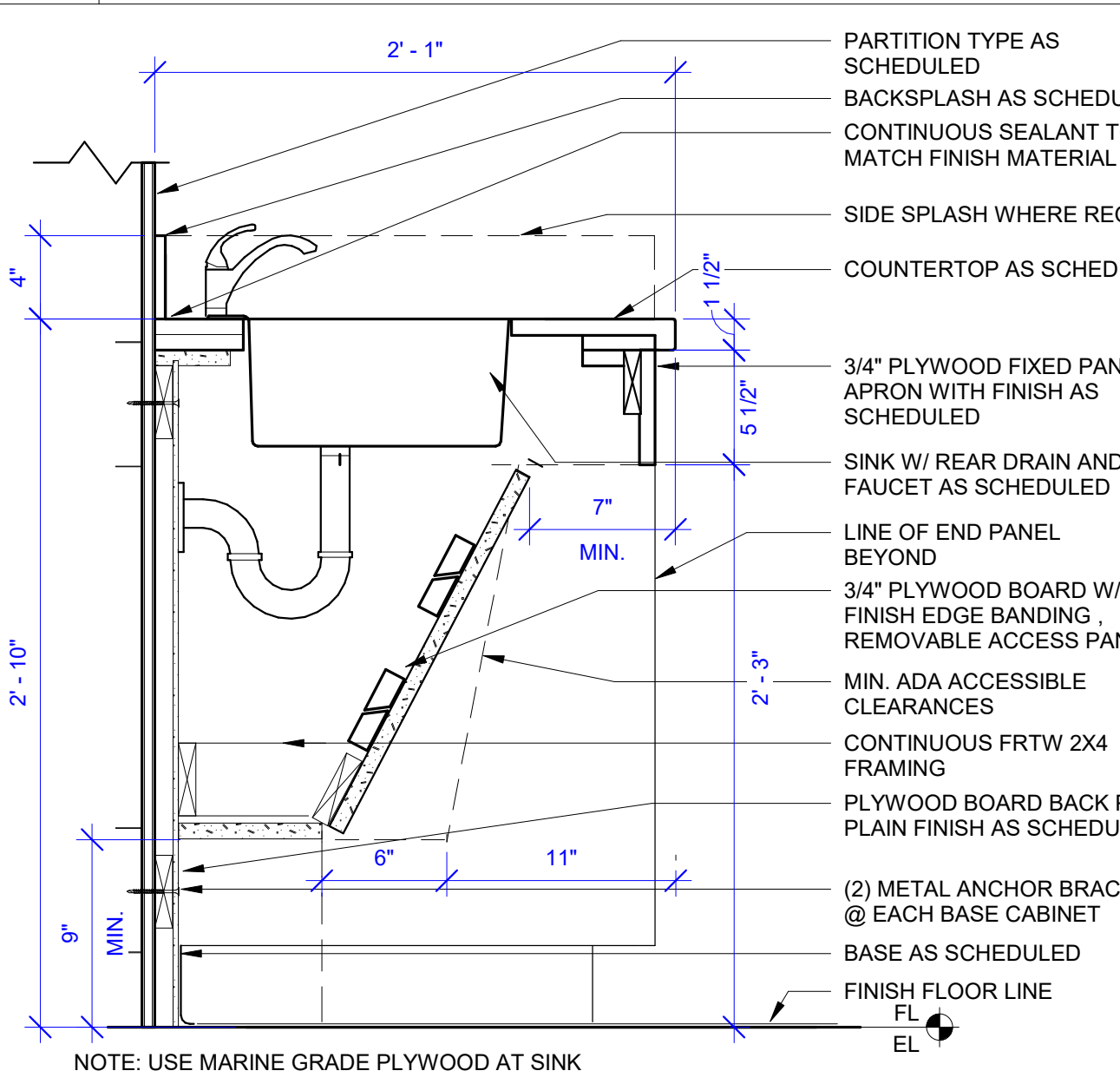
**14 DENTAL BASE CABINET W/ DRAWERS @ HEADWALL**



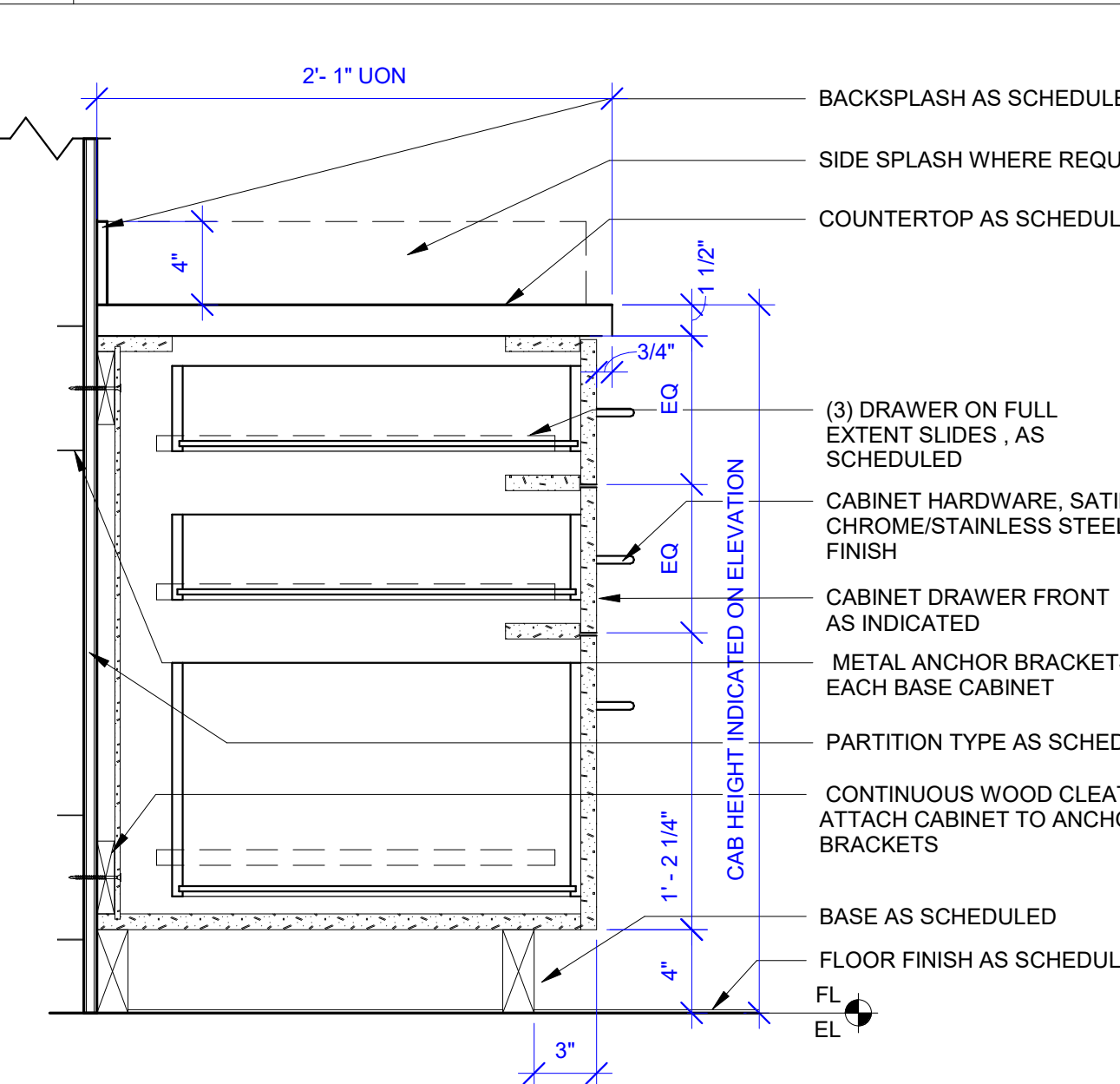
**15 DENTAL BASE CABINET W/ DOOR @ HEADWALL**



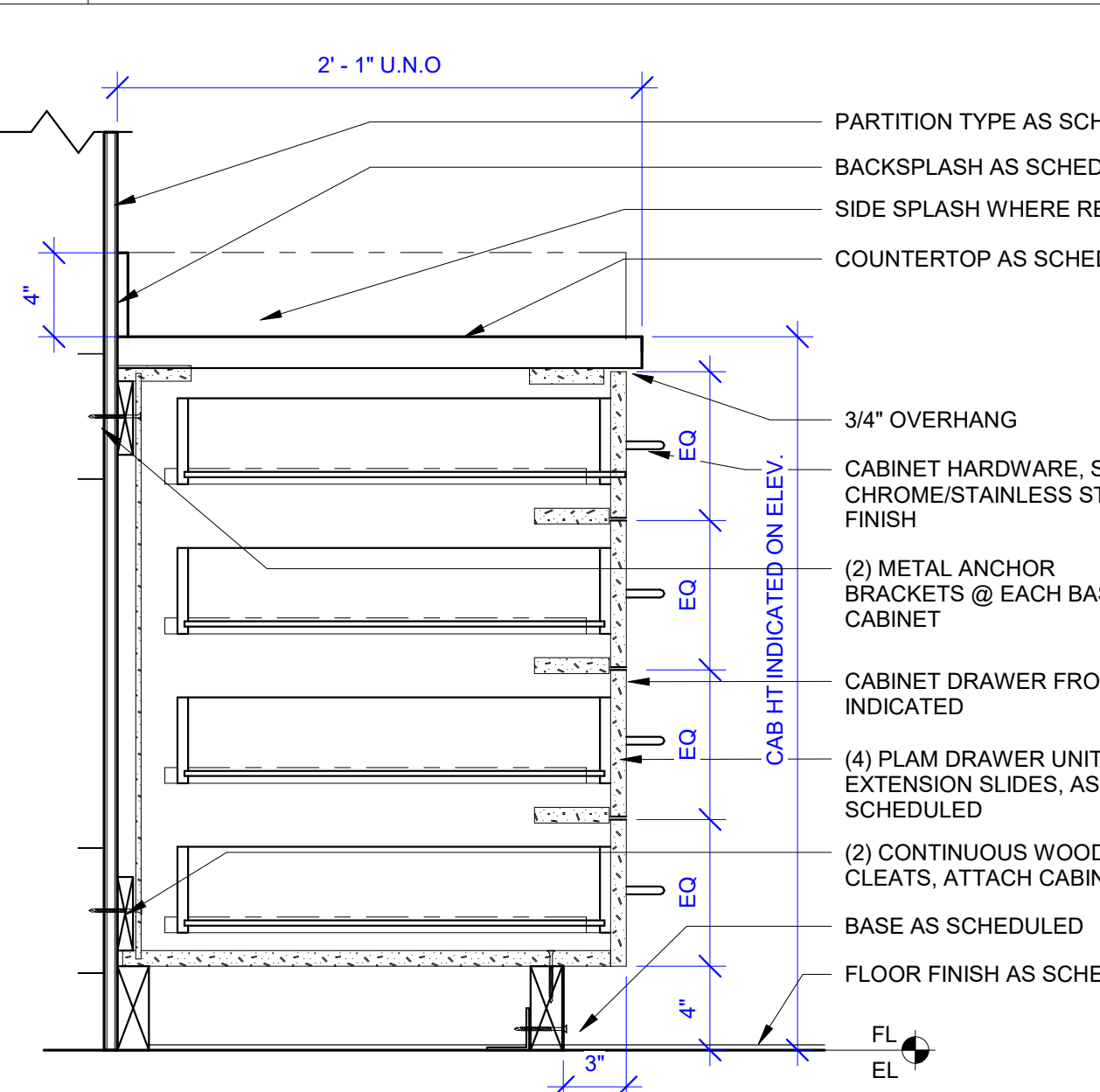
**6 UPPER CABINET**



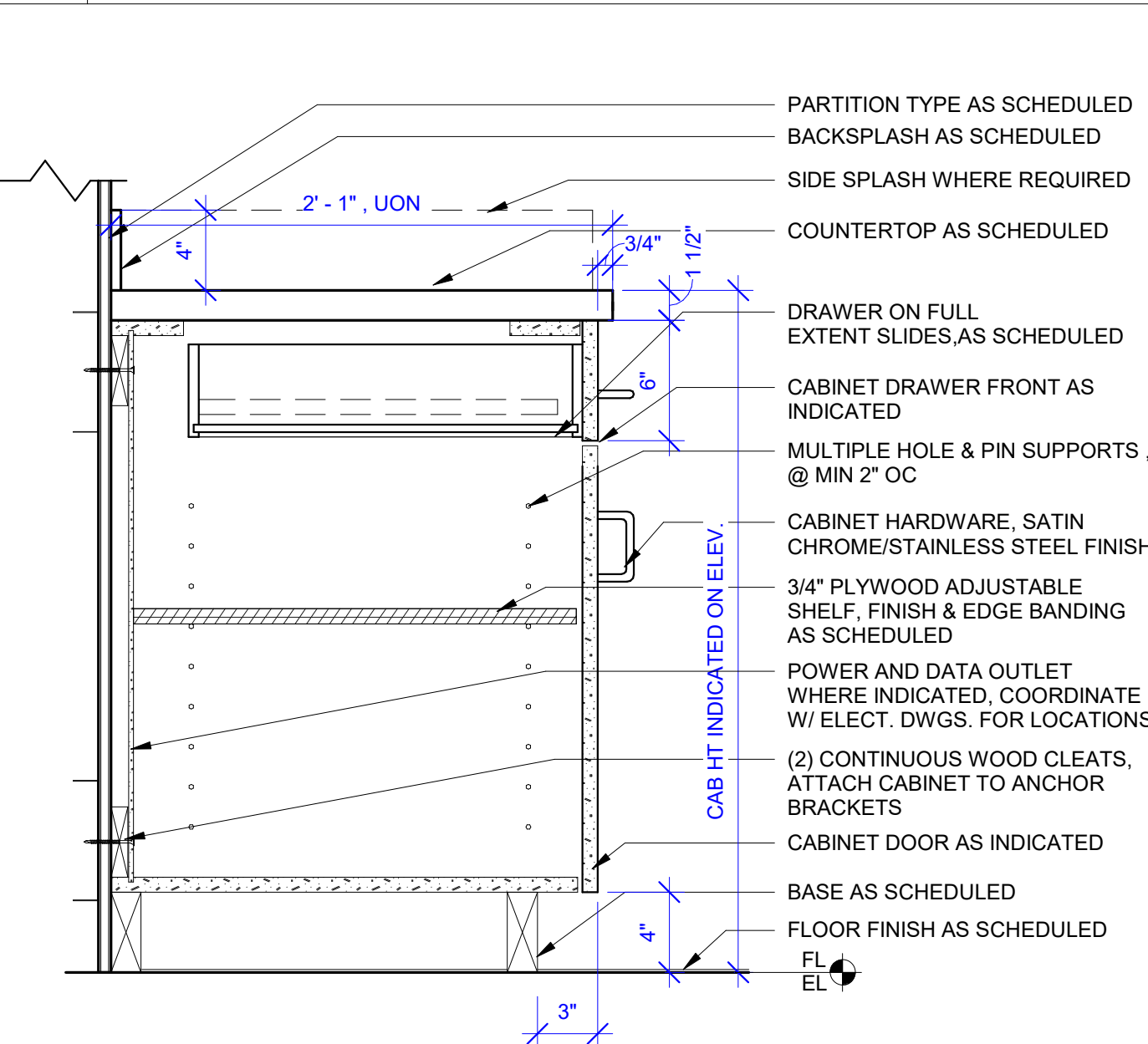
**7 LOW COUNTERTOP MILLWORK DETAIL**



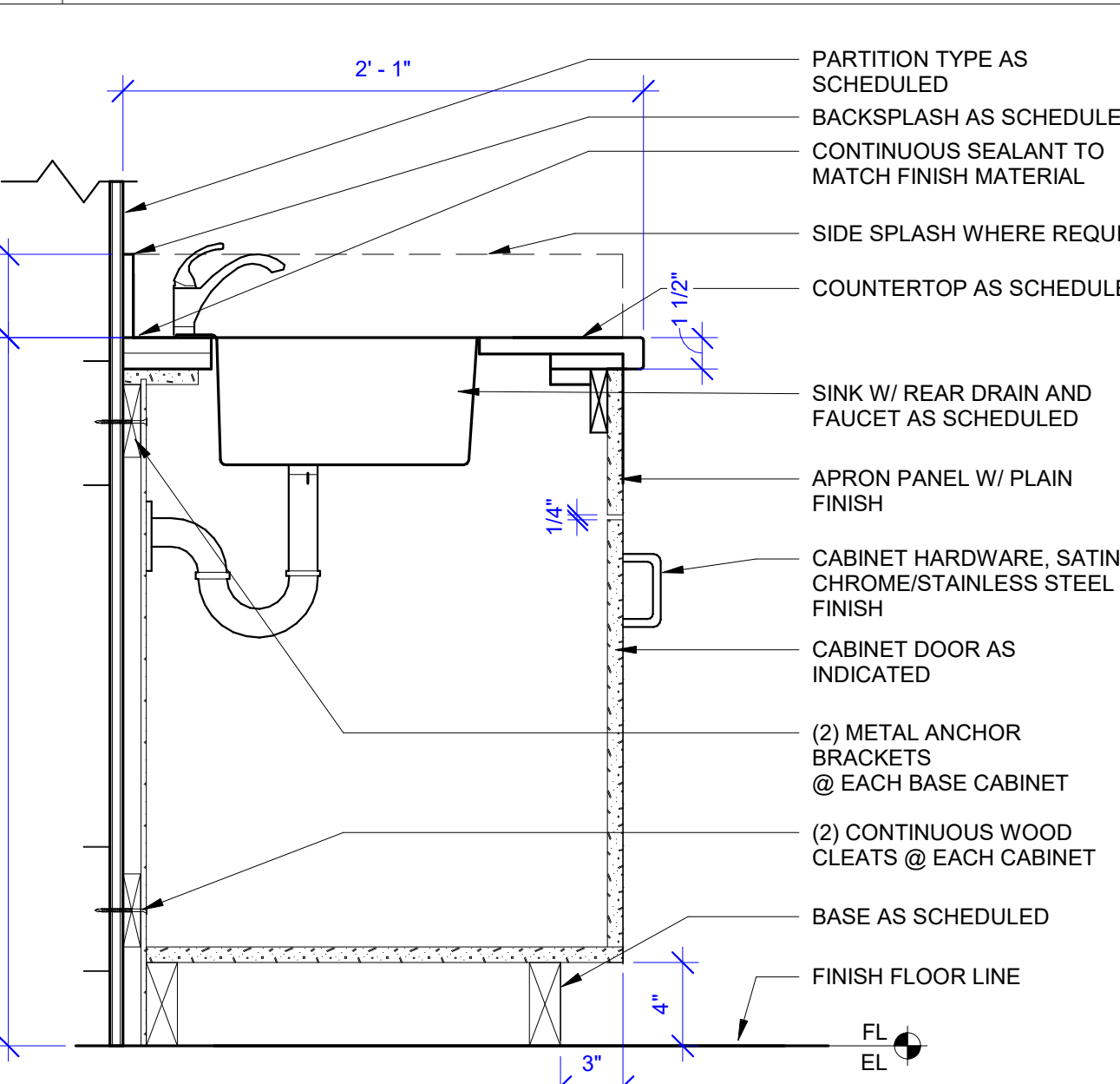
**8 HIGH COUNTERTOP MILLWORK DETAIL**



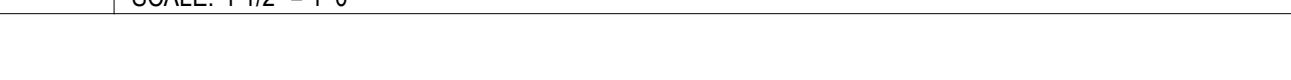
**9 P.LAM COUNTERTOP DETAIL**



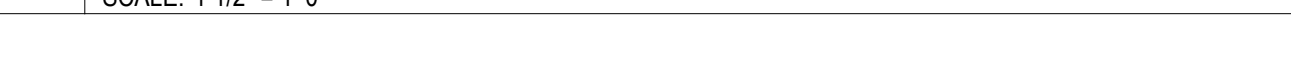
**10 DENTAL BASE CABINET W/ 3 DRAWERS**



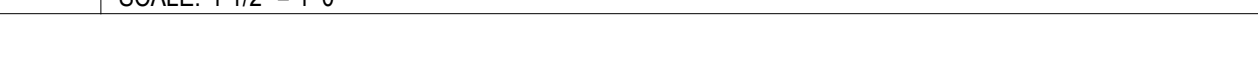
**1 BASE CABINET W/ SINK**



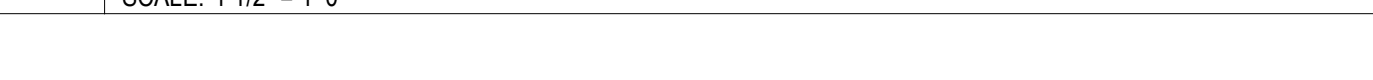
**2 BASE CABINET W/ 3 DRAWERS**



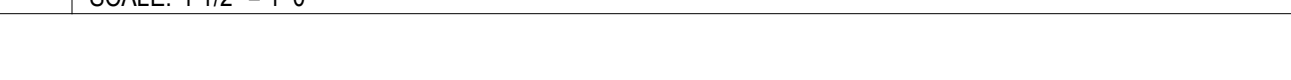
**3 BASE CABINET W/ 4 DRAWERS**



**4 BASE CABINET W/ 1 DRAWER & DOOR**



**5 SINK W/ DOORS**





**ELEMENT ARCHITECTS**  
interiors

**PROJECT TEAM**

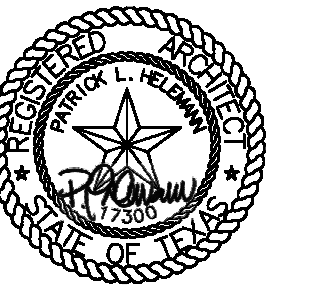
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

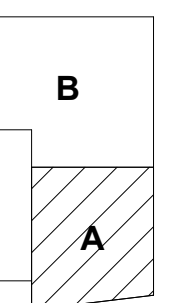
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

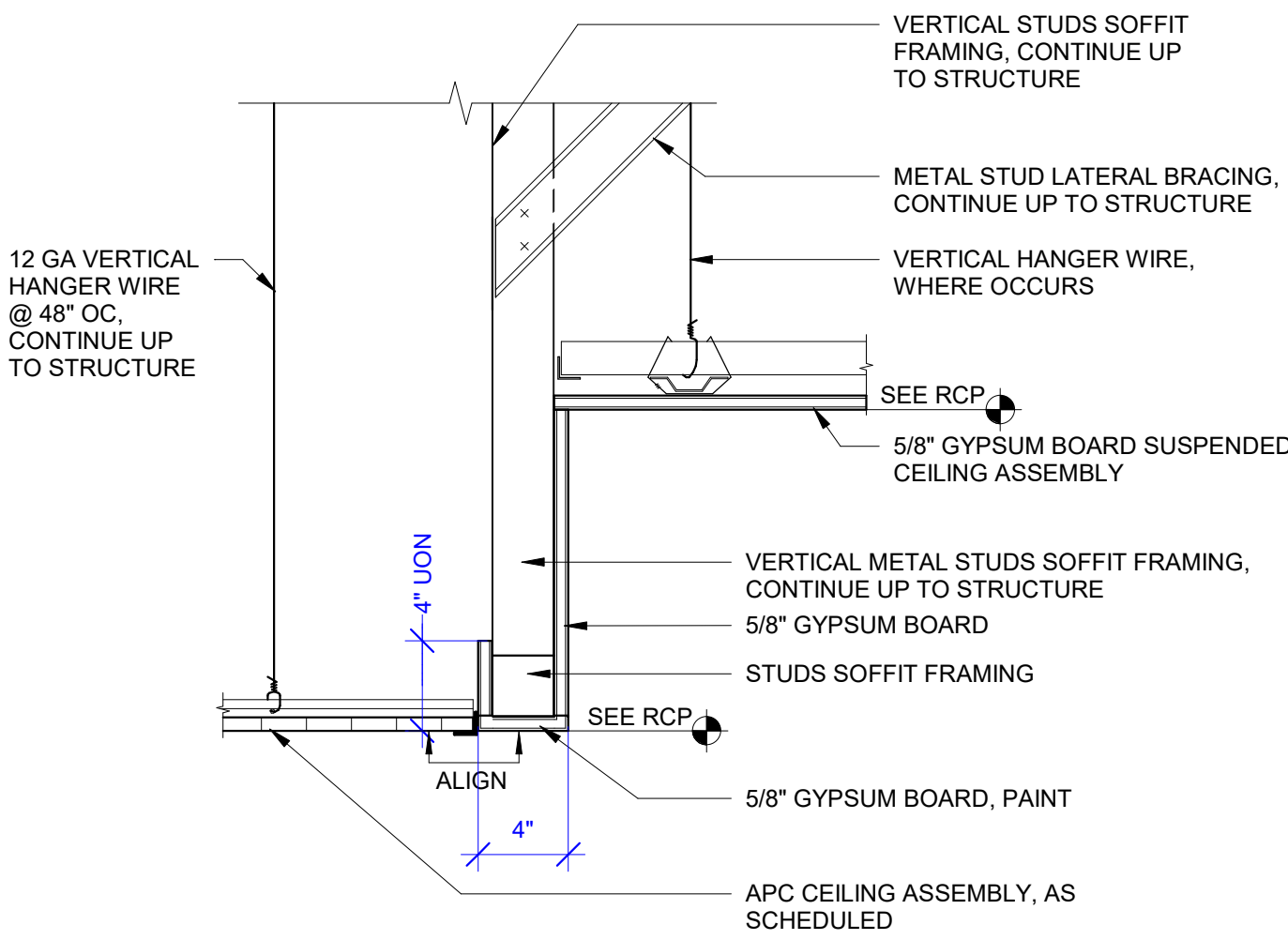
24017

**DATE**

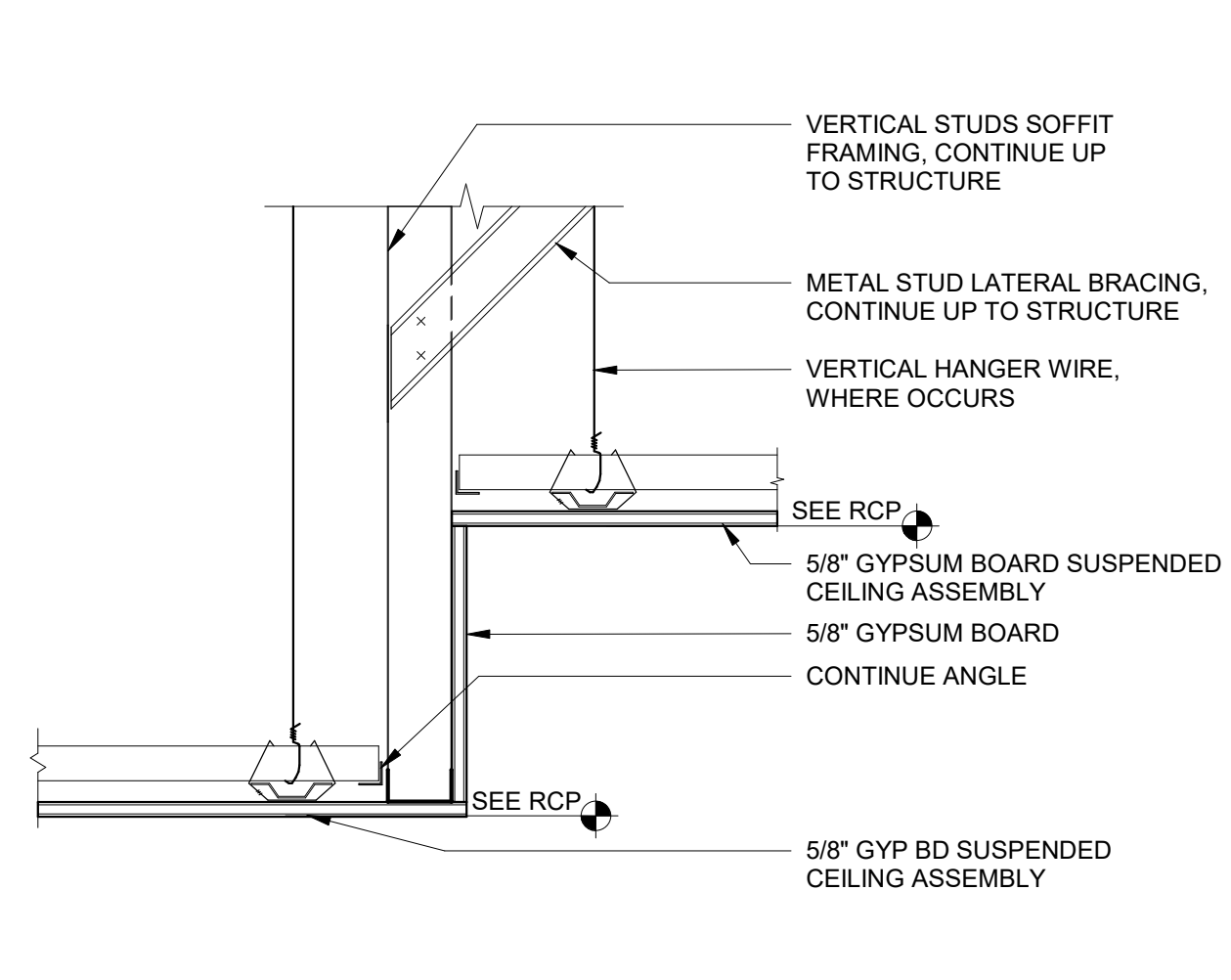
05/30/24

**CEILING DETAILS**

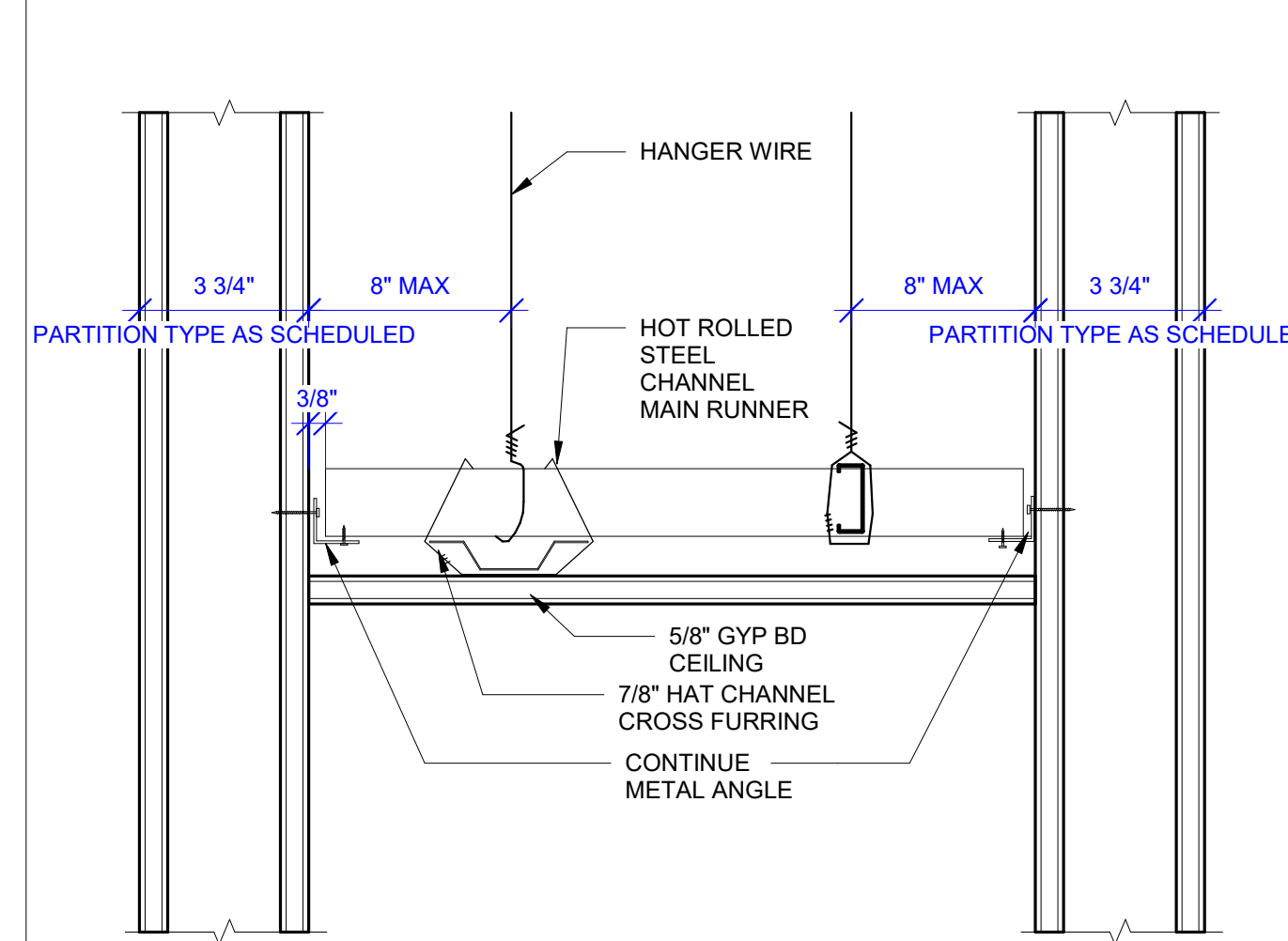
**A721**



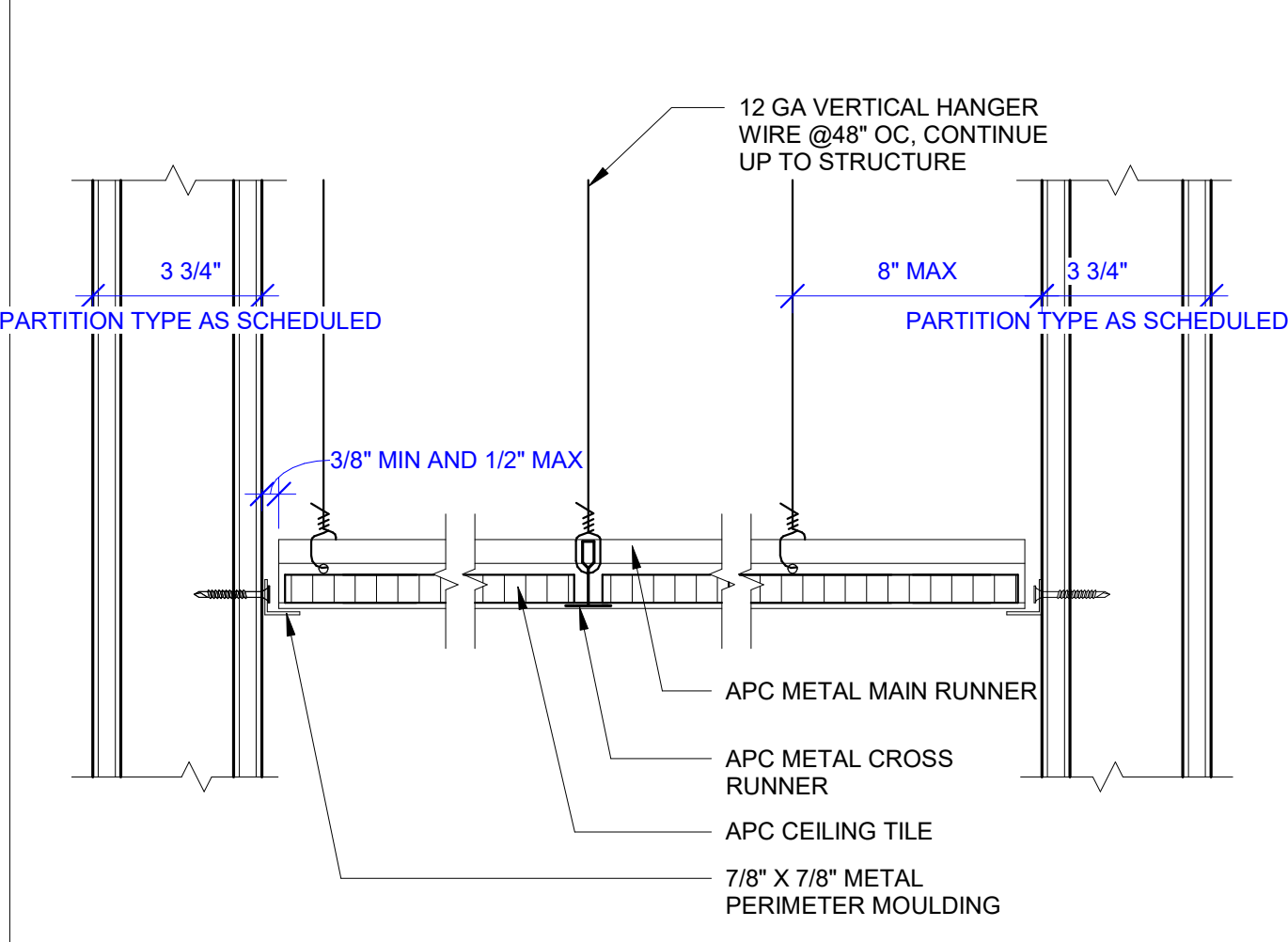
**4 GYP. CEILING/ACT CEILING TRANSITION DETAIL**  
SCALE: 1 1/2" = 1'-0"



**3 GYP. BOARD CEILING SOFFIT DETAIL**  
SCALE: 1 1/2" = 1'-0"



**2 GYP. BOARD CEILING TYPICAL DETAIL**  
SCALE: 3" = 1'-0"



**1 ACT CEILING TYPICAL DETAIL**  
SCALE: 3" = 1'-0"



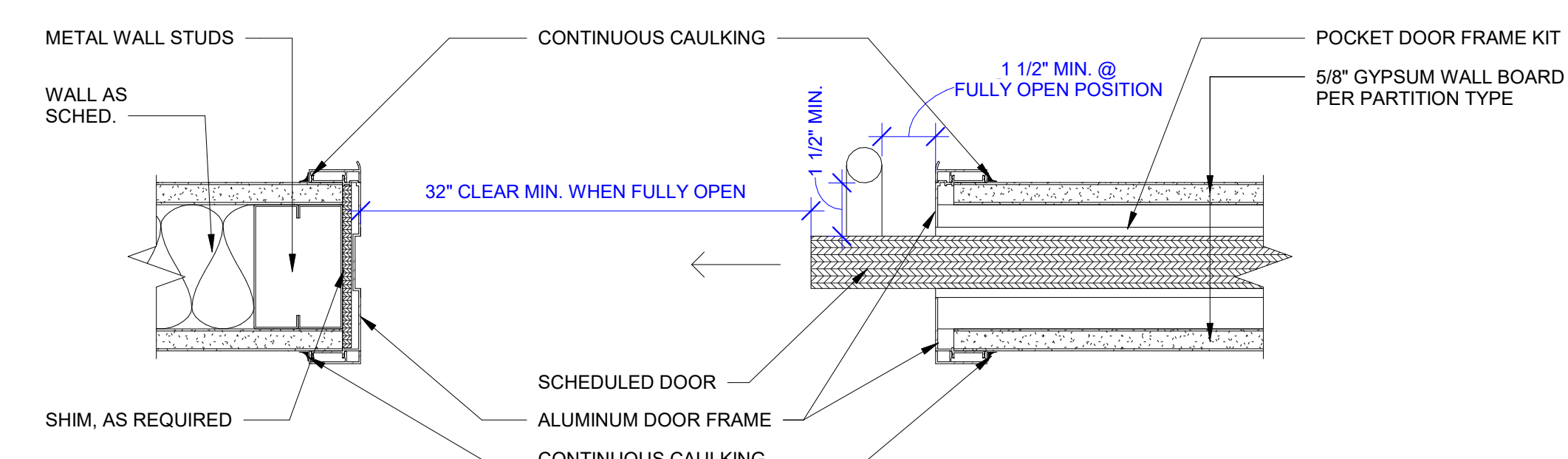
ELEMENT ARCHITECTS + interiors

PROJECT TEAM

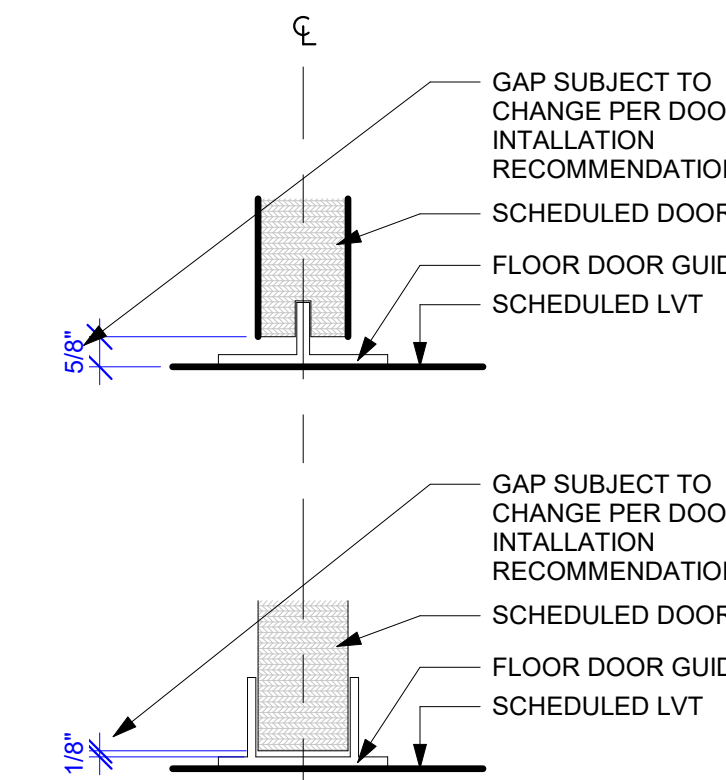
OWNER  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

ARCHITECT  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

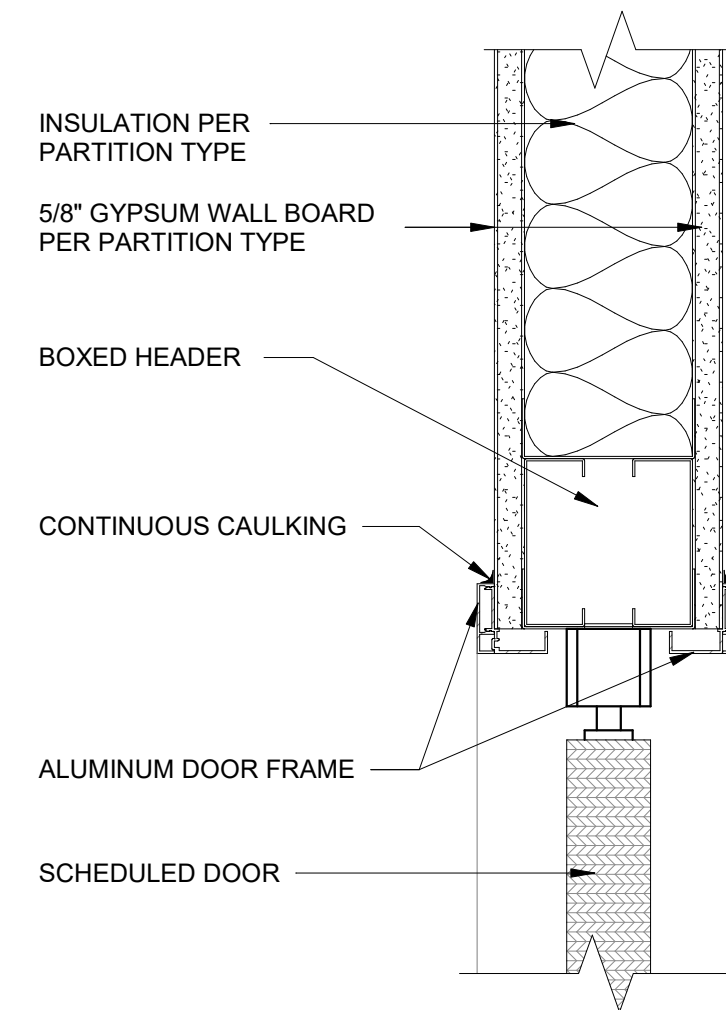
MEP  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368



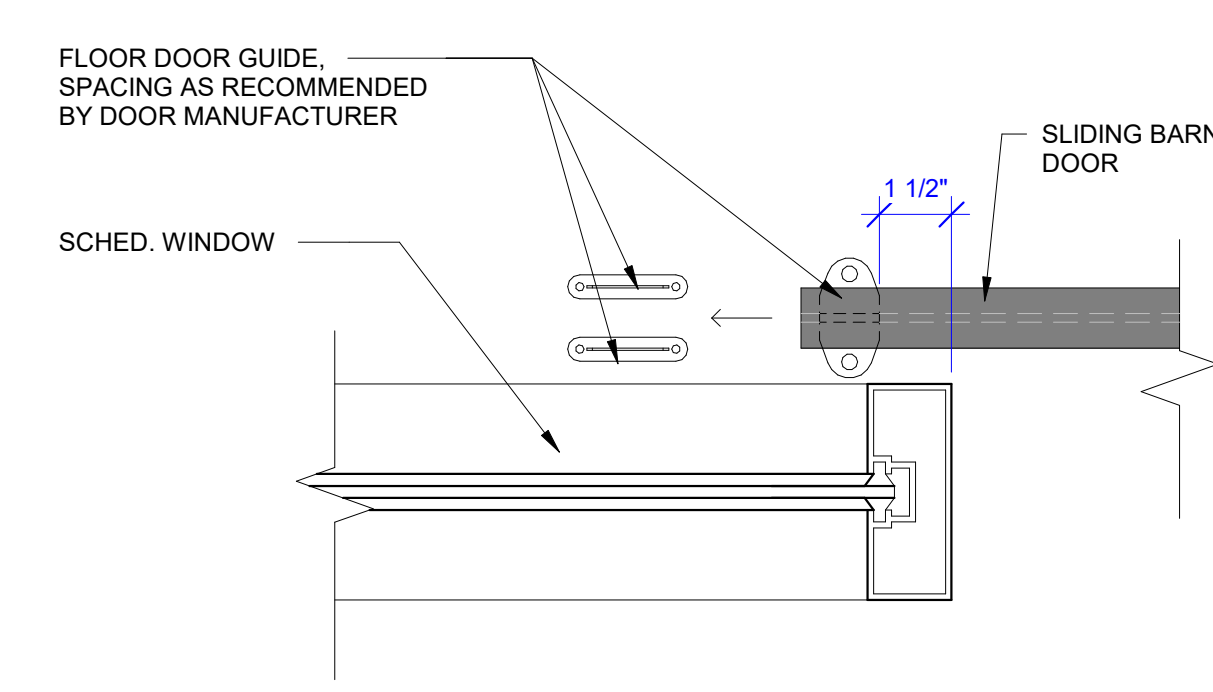
12 INT. POCKET DOOR JAMB @ METAL STUD  
SCALE: 3" = 1'-0"



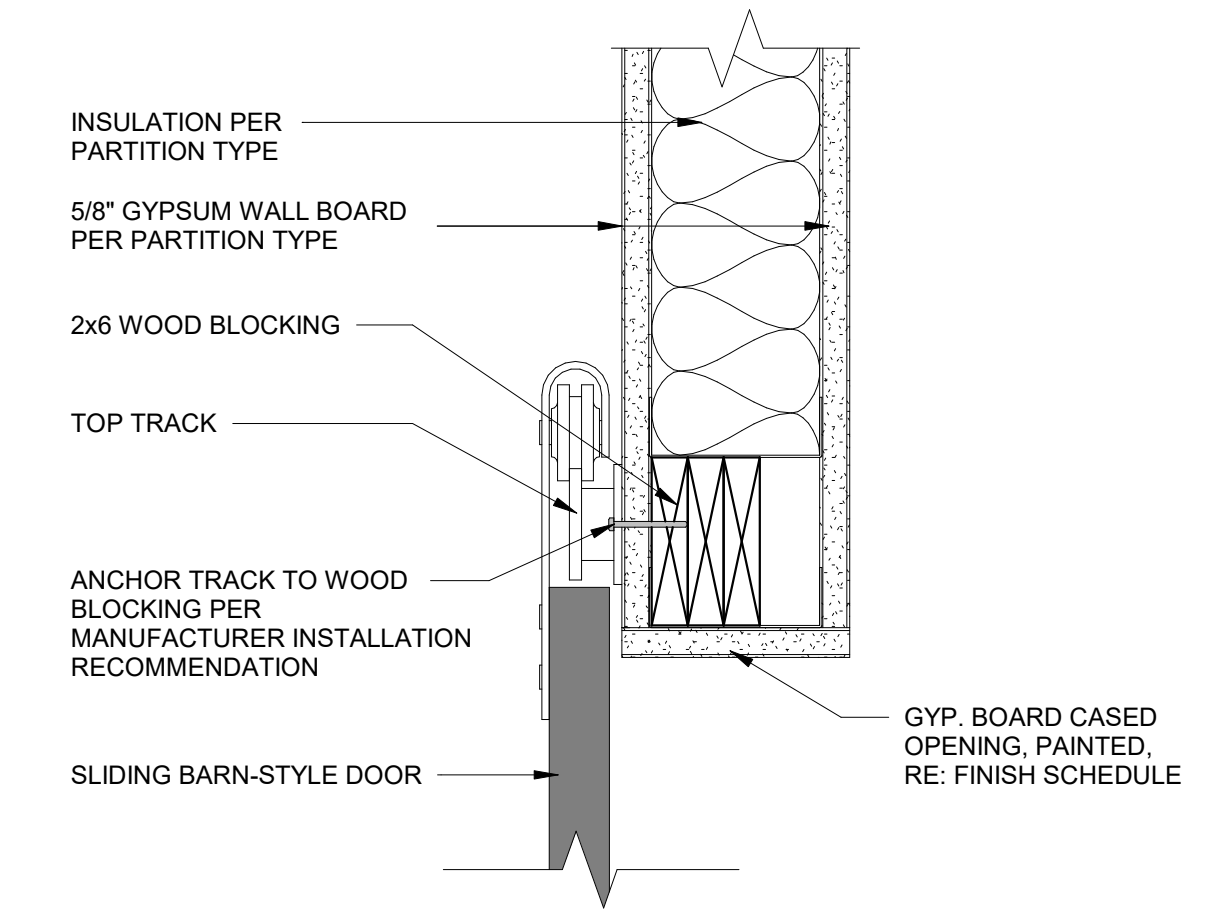
9 SLIDING DOOR SILL  
SCALE: 3" = 1'-0"



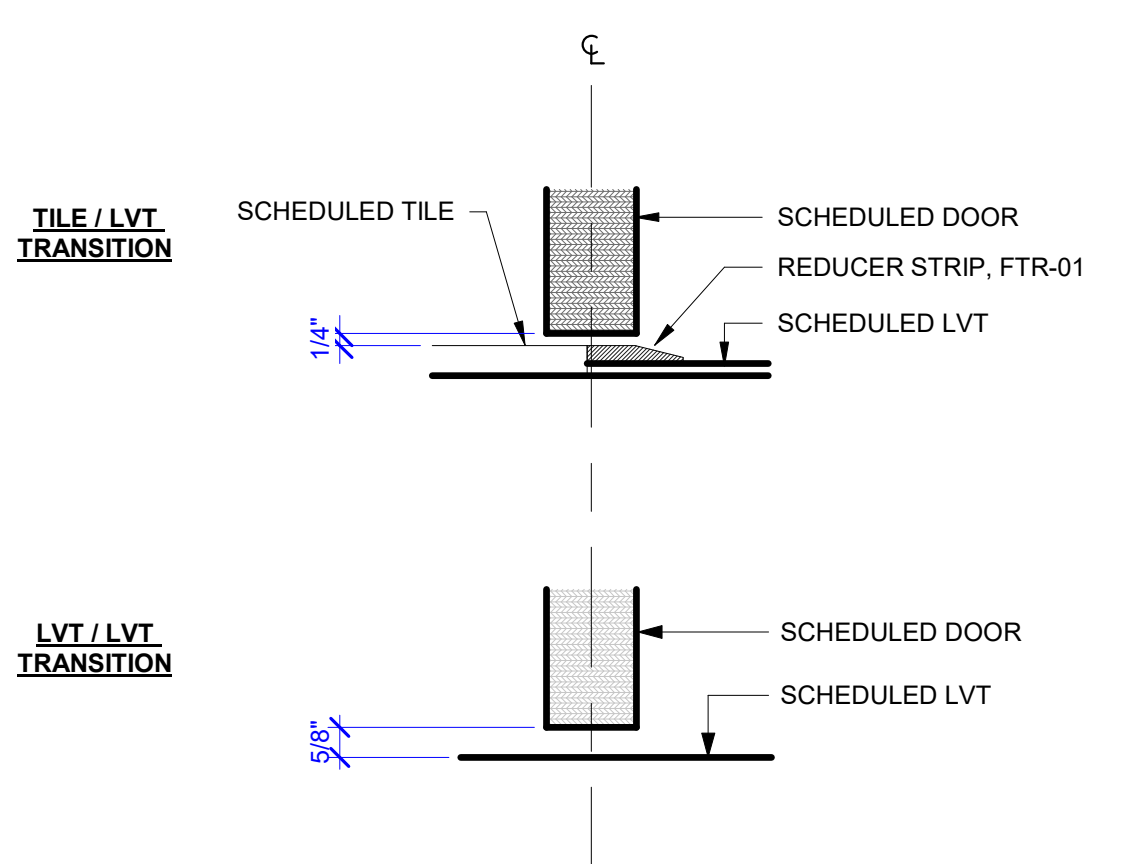
8 INT. POCKET DOOR HEAD @ METAL STUD  
SCALE: 3" = 1'-0"



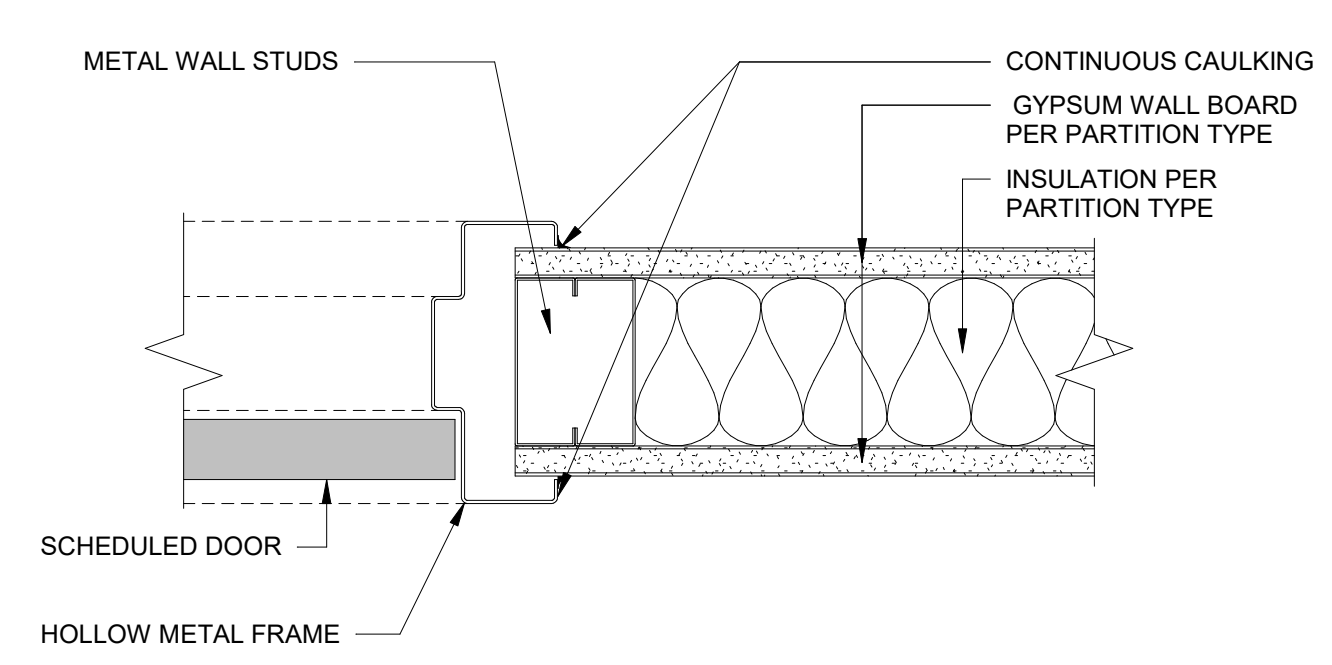
7 INT. BARN DOOR JAMB @ ALUM FRAME  
SCALE: 3" = 1'-0"



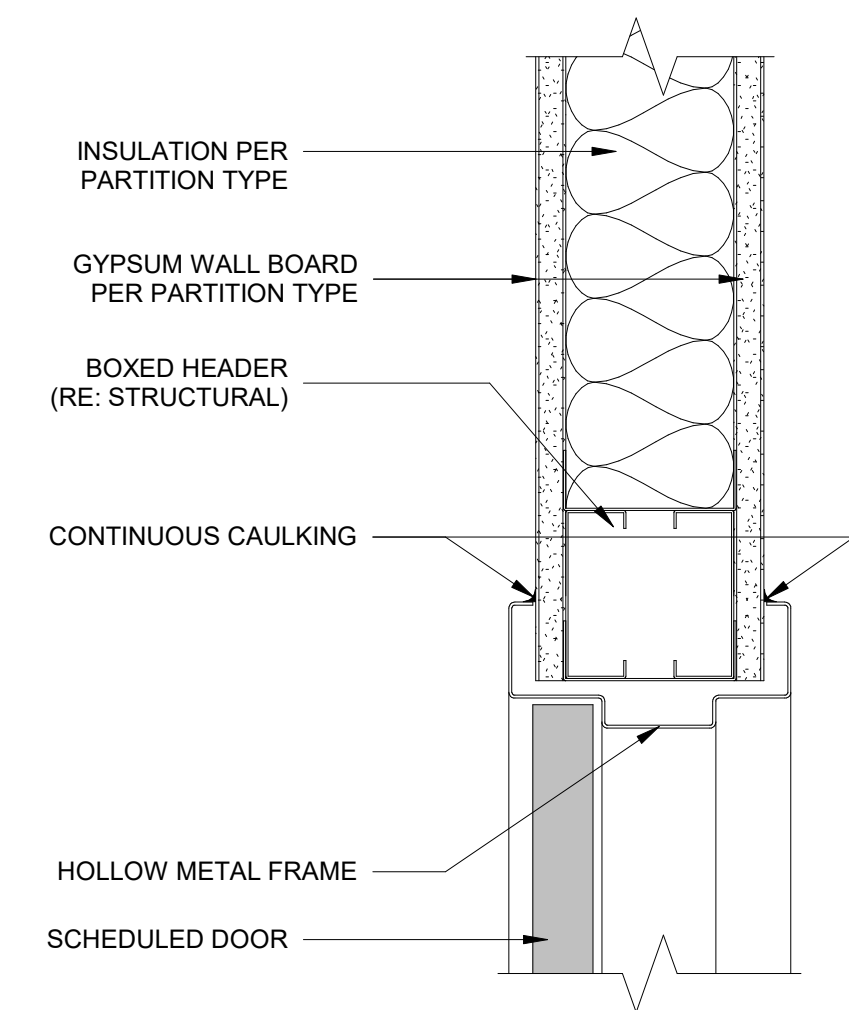
6 INT. BARN DOOR HEAD @ METAL STUD  
SCALE: 3" = 1'-0"



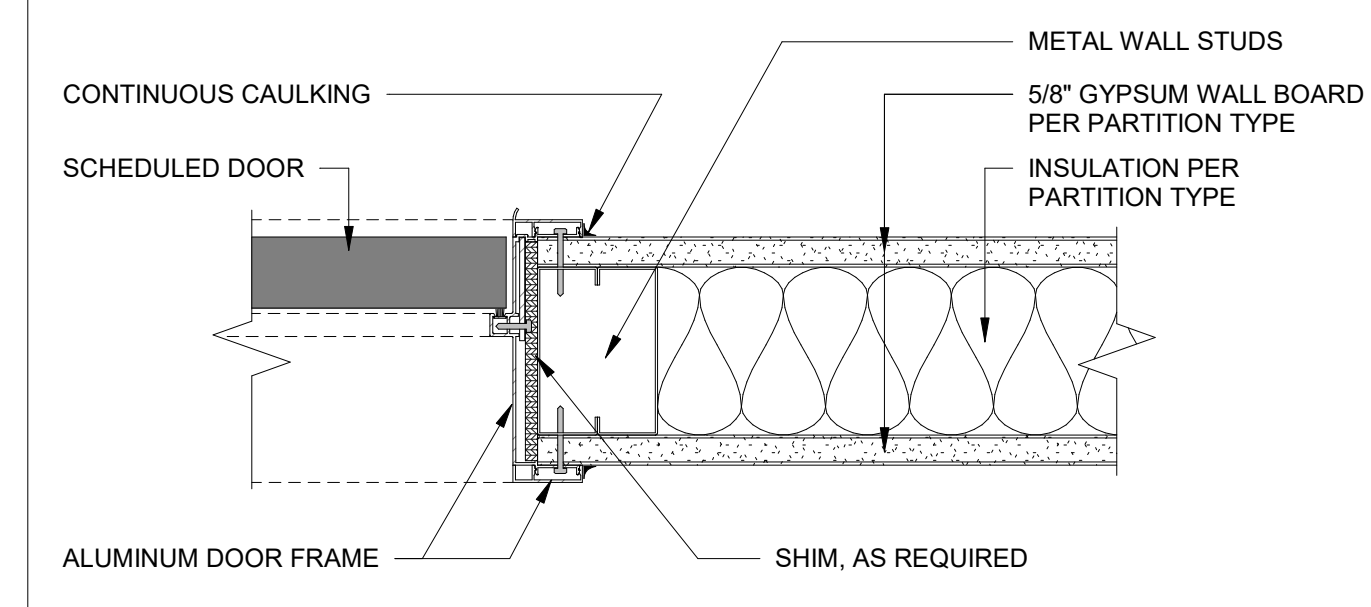
5 DOOR SILLS  
SCALE: 3" = 1'-0"



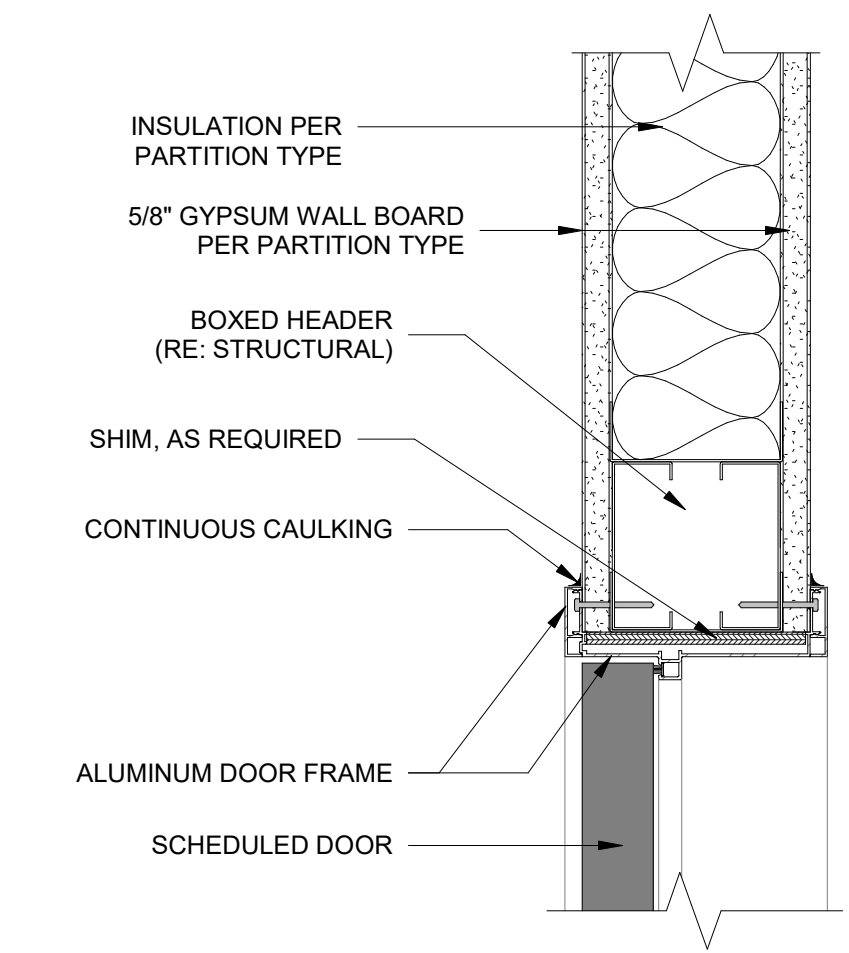
4 INT. H.M. DOOR JAMB @ METAL STUD  
SCALE: 3" = 1'-0"



3 INT. H.M. DOOR HEAD @ METAL STUD  
SCALE: 3" = 1'-0"



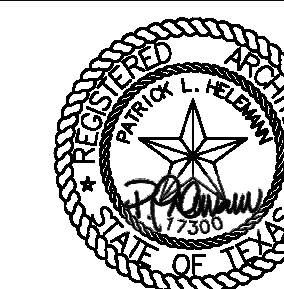
2 INT. ALUM DOOR JAMB @ METAL STUD  
SCALE: 3" = 1'-0"



1 INT. ALUM DOOR HEAD @ METAL STUD  
SCALE: 3" = 1'-0"

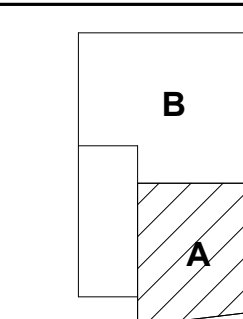
#	DESCRIPTION	DATE
---	-------------	------

SEAL / SIGNATURE



05/30/24

KEY MAP



PROJECT STATUS

ISSUE FOR PERMIT

PROJECT NAME

SUPER KIDS DENTAL

PROJECT ADDRESS

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

PROJECT NUMBER

24017

DATE

05/30/24

DOOR DETAILS - INTERIOR

A751



**ELEMENT ARCHITECTS**  
interiors

**PROJECT TEAM**

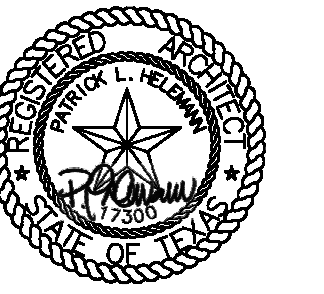
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR.  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

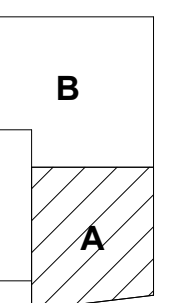
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

24017

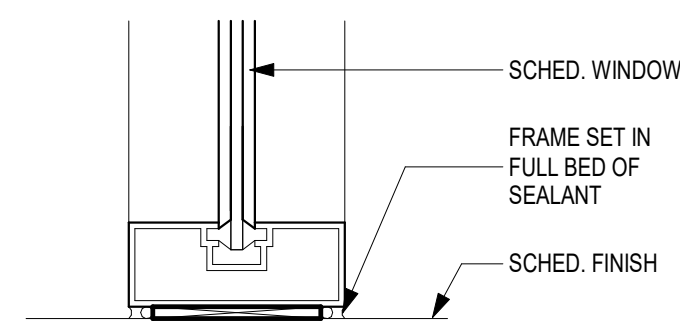
**DATE**

05/30/24

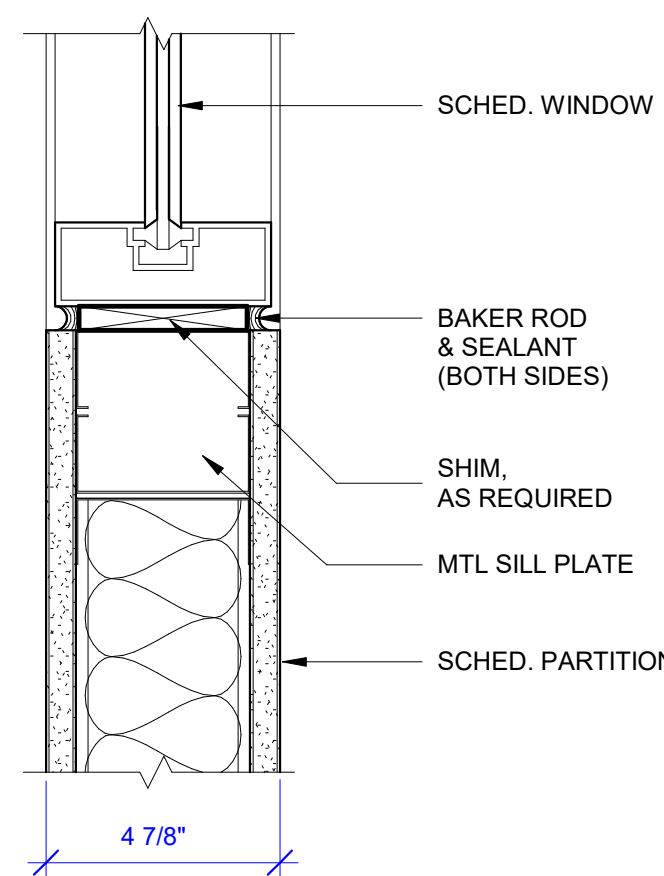
**WINDOW DETAILS - INTERIOR**

**A761**

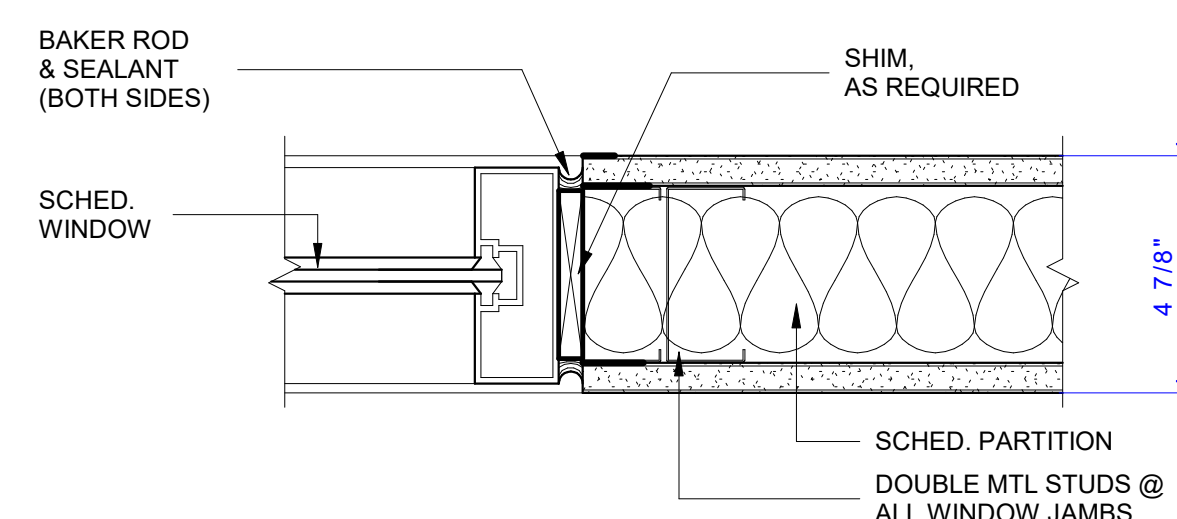
**4 INT. ALUM. FRAME SILL**  
SCALE: 3" = 1'-0"



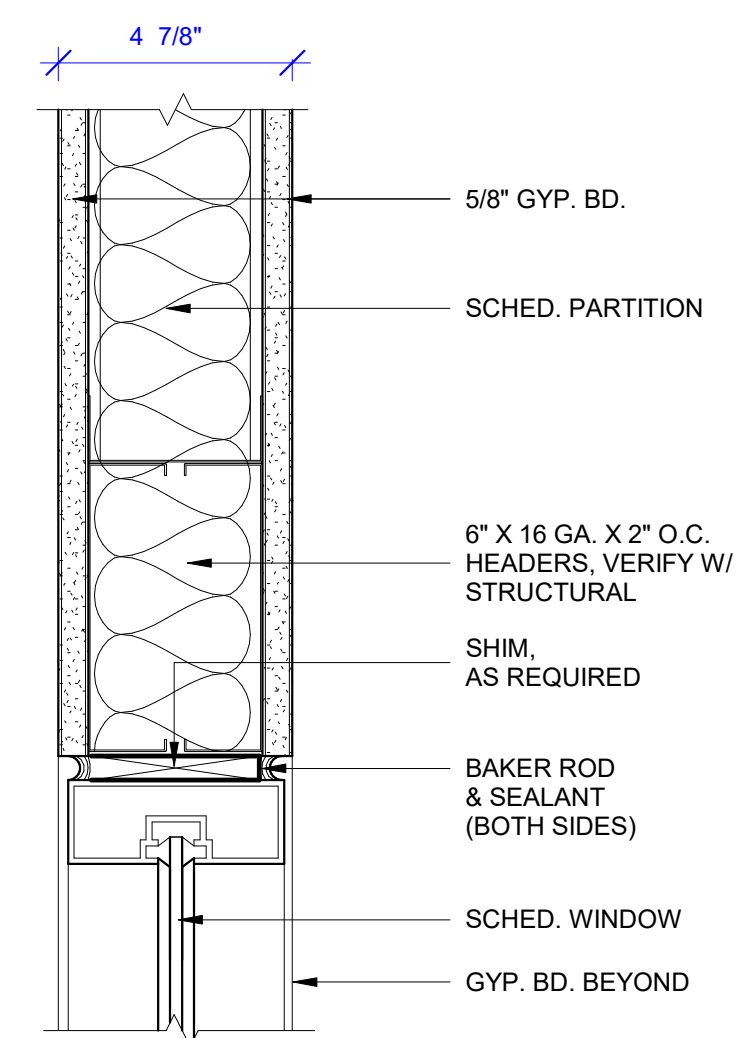
**3 INT. WINDOW SILL DETAIL @ MTL. STUD**  
SCALE: 3" = 1'-0"



**2 INT. WINDOW JAMB DETAIL @ MTL. STUD**  
SCALE: 3" = 1'-0"



**1 INT. WINDOW HEAD DETAIL @ MTL. STUD**  
SCALE: 3" = 1'-0"



DOOR NUMBER	ROOM NAME	ROUGH OPENING		DOOR PANEL THICKNESS	DOOR FRAME			DOOR FINISH		DETAILS			HARDWARE GROUP NO.	FIRE RATING	COMMENTS
		WIDTH	HEIGHT		DOOR TYPE	FRAME MATERIAL	FRAME FINISH	PANEL MATERIAL	PANEL FINISH	HEAD	JAMB	SILL			
		0' - 0"	7' - 0"		ELEVATION										
100	WAITING ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	2	ALUM	CLEAR ANODIZED	SCPL/GLASS	PLAM-03/GL-1	1/A751	2/A751	5/A751	101		
102	RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	1	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	341C		
103	CONSULT	3' - 0"	7' - 0"	0' - 1"	4	ALUM	CLEAR ANODIZED	GLASS/ALUM	GL-2/CLEAR ANODIZED				001		OPENING WIDTH TO BE 3'-0". BARN-STYLE DOOR WIDTH TO BE 3'-6". ENSURE 32" OF CLEAR WIDTH IS MAINTAINED WHEN IN FULLY OPEN POSITION. PROVIDE SOFT CLOSE HARDWARE.
104	IT	3' - 0"	7' - 0"	0' - 1 3/8"	5	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	212S		
106	STORAGE	3' - 0"	7' - 0"	0' - 1 1/2"	3	ALUM	CLEAR ANODIZED	SCPL	PLAM-03				953L		ENSURE 32" OF CLEAR WIDTH IS MAINTAINED WHEN IN FULLY OPEN POSITION. PROVIDE SOFT CLOSE HARDWARE.
106A	MED GAS	3' - 0"	7' - 0"	0' - 1 3/4"	1	HM	PT-05	HM	PT-05	3/A751	4/A751	5/A751	201C	1-HR	
108A	WASHER/DRYER	3' - 0"	7' - 0"	0' - 1 3/8"	5	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	412S		
109	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	2	ALUM	CLEAR ANODIZED	SCPL/GLASS	PLAM-03/GL-1	1/A751	2/A751	5/A751	103		
110	OP ROOM 1	3' - 0"	7' - 0"	0' - 1 5/8"	1	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	403		
111	LAB	3' - 0"	7' - 0"	0' - 1 1/2"	3	ALUM	CLEAR ANODIZED	SCPL	PLAM-03				953L		ENSURE 32" OF CLEAR WIDTH IS MAINTAINED WHEN IN FULLY OPEN POSITION. PROVIDE SOFT CLOSE HARDWARE.
112	OP ROOM 2	3' - 0"	7' - 0"	0' - 1 5/8"	1	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	403		
113	SURGICAL SUITE	3' - 0"	7' - 0"	0' - 1 5/8"	1	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	403		
114	BREAK ROOM	3' - 0"	7' - 0"	0' - 1 1/2"	3	ALUM	CLEAR ANODIZED	SCPL	PLAM-03				923		ENSURE 32" OF CLEAR WIDTH IS MAINTAINED WHEN IN FULLY OPEN POSITION. PROVIDE SOFT CLOSE HARDWARE.
115	MECH.	3' - 0"	7' - 0"	0' - 1 3/4"	1	ALUM	CLEAR ANODIZED	SCPL	PLAM-03	1/A751	2/A751	5/A751	203S		
E100	WAITING ROOM	3' - 0"	7' - 0"	0' - 1 3/8"	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXST		PROVIDE OFFICE FUNCTION LOCK SET, RE: HARDWARE GROUP NO. EXST BELOW

**HARDWARE GROUP NO.**

<p><b>HARDWARE GROUP NO. 001</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>SLIDING GLASS DOOR HARDWARE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 101</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>ENTRANCE LOCK</td> <td>ND53HD ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SFIC CORE</td> <td>80-037</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SURFACE CLOSER</td> <td>1461 REG X MTG BRKT, SPCR &amp; PLATE</td> <td>689</td> <td>LCN</td> </tr> <tr> <td>1</td> <td>KICK PLATE</td> <td>8400 10" X 2" LDW B-CS</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>WALL STOP</td> <td>WS406/407CCV</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 103</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>ENTRANCE LOCK</td> <td>ND53HD ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SFIC CORE</td> <td>80-037</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>WALL STOP</td> <td>WS406/407CCV</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 201C</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>STOREROOM LOCK</td> <td>ND80HD ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SFIC CORE</td> <td>80-037</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SURFACE CLOSER</td> <td>1461 SCUSH X MTG BRKT, SPCR &amp; PLATE</td> <td>689</td> <td>LCN</td> </tr> <tr> <td>1</td> <td>KICK PLATE</td> <td>8400 10" X 2" LDW B-CS</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>GASKETING</td> <td>488SBK PSA H &amp; J</td> <td>BK</td> <td>ZER</td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 203S</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>STOREROOM LOCK</td> <td>ND80HD ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SFIC CORE</td> <td>80-037</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>OH STOP</td> <td>90S</td> <td>630</td> <td>GLY</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 212S</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>CONST LATCHING BOLT</td> <td>FB61P</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>DUST PROOF STRIKE</td> <td>DP2</td> <td>626</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>STOREROOM LOCK</td> <td>ND80HD ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SFIC CORE</td> <td>80-037</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>2</td> <td>OH STOP</td> <td>450S</td> <td>652</td> <td>GLY</td> </tr> <tr> <td>1</td> <td>MEETING STILE</td> <td>8193AA (2 PCS - 1 SET)</td> <td>AA</td> <td>ZER</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 341C</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>PRIVACY LOCK W/ OUTSIDE INDICATOR</td> <td>ND40S ATH OS-OCC</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SURFACE CLOSER</td> <td>1461 SCUSH X MTG BRKT, SPCR &amp; PLATE</td> <td>689</td> <td>LCN</td> </tr> <tr> <td>1</td> <td>KICK PLATE</td> <td>8400 10" X 2" LDW B-CS</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table>	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	SLIDING GLASS DOOR HARDWARE	5B81 4.5 X 4.5	652	IVE	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	HINGE	5B81 4.5 X 4.5	652	IVE	1	ENTRANCE LOCK	ND53HD ATH	626	SCH	1	SFIC CORE	80-037	626	SCH	1	SURFACE CLOSER	1461 REG X MTG BRKT, SPCR & PLATE	689	LCN	1	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	1	WALL STOP	WS406/407CCV	630	IVE	1	SEAL	PERIMETER SEAL BY FRAME MFR.			QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	HINGE	5B81 4.5 X 4.5	652	IVE	1	ENTRANCE LOCK	ND53HD ATH	626	SCH	1	SFIC CORE	80-037	626	SCH	1	WALL STOP	WS406/407CCV	630	IVE	1	SEAL	PERIMETER SEAL BY FRAME MFR.			QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	HINGE	5B81 4.5 X 4.5	652	IVE	1	STOREROOM LOCK	ND80HD ATH	626	SCH	1	SFIC CORE	80-037	626	SCH	1	SURFACE CLOSER	1461 SCUSH X MTG BRKT, SPCR & PLATE	689	LCN	1	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	1	GASKETING	488SBK PSA H & J	BK	ZER	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	HINGE	5B81 4.5 X 4.5	652	IVE	1	STOREROOM LOCK	ND80HD ATH	626	SCH	1	SFIC CORE	80-037	626	SCH	1	OH STOP	90S	630	GLY	1	SEAL	PERIMETER SEAL BY FRAME MFR.			QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	8	HINGE	5B81 4.5 X 4.5	652	IVE	1	CONST LATCHING BOLT	FB61P	630	IVE	1	DUST PROOF STRIKE	DP2	626	IVE	1	STOREROOM LOCK	ND80HD ATH	626	SCH	1	SFIC CORE	80-037	626	SCH	2	OH STOP	450S	652	GLY	1	MEETING STILE	8193AA (2 PCS - 1 SET)	AA	ZER	1	SEAL	PERIMETER SEAL BY FRAME MFR.			QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	HINGE	5B81 4.5 X 4.5	652	IVE	1	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S ATH OS-OCC	626	SCH	1	SURFACE CLOSER	1461 SCUSH X MTG BRKT, SPCR & PLATE	689	LCN	1	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	1	SEAL	PERIMETER SEAL BY FRAME MFR.			<p><b>HARDWARE GROUP NO. 403</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>PASSAGE SET</td> <td>ND10S ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>WALL STOP</td> <td>WS406/407CCV</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 412S</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>HINGE</td> <td>5B81 4.5 X 4.5</td> <td>652</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>CONST LATCHING BOLT</td> <td>FB61P</td> <td>630</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>DUST PROOF STRIKE</td> <td>DP2</td> <td>626</td> <td>IVE</td> </tr> <tr> <td>1</td> <td>PASSAGE SET</td> <td>ND10S ATH</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>2</td> <td>OH STOP</td> <td>450S</td> <td>652</td> <td>GLY</td> </tr> <tr> <td>1</td> <td>MEETING STILE</td> <td>8193AA (2 PCS - 1 SET)</td> <td>AA</td> <td>ZER</td> </tr> <tr> <td>1</td> <td>SEAL</td> <td>PERIMETER SEAL BY FRAME MFR.</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>HARDWARE GROUP NO. 923</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>POCKET DOOR KIT</td> <td>9850 SERIES X SIZE AS REQ</td> <td></td> <td>HAG</td> </tr> <tr> <td>1</td> <td>LONG DOOR PULL</td> <td>(1 SET) PR 9268F 12" (MOUNT BACK TO BACK)</td> <td>630</td> <td>IVE</td> </tr> </tbody> </table> <p>NOTE: BALANCE OF HARDWARE BY DOOR MFR</p> <p><b>HARDWARE GROUP NO. 953L</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>POCKET DOOR KIT</td> <td>9850 SERIES X SIZE AS REQ</td> <td></td> <td>HAG</td> </tr> <tr> <td>1</td> <td>POCKET DOOR LOCK</td> <td>CLASSROOM LOCK 2001ADAP-3ST W/PULLS</td> <td>626</td> <td>ACC</td> </tr> <tr> <td>1</td> <td>SFIC CORE</td> <td>80-037</td> <td>626</td> <td>SCH</td> </tr> <tr> <td>1</td> <td>SFIC MORTISE CYL.</td> <td>80-132 X CAM/COLLARS AS REQ (MULLION)</td> <td>626</td> <td>SCH</td> </tr> </tbody> </table> <p>NOTE: BALANCE OF HARDWARE BY DOOR MFR</p> <p><b>HARDWARE GROUP NO. EXST</b></p> <table border="0"> <thead> <tr> <th>QTY</th> <th>DESCRIPTION</th> <th>CATALOG NUMBER</th> <th>FINISH</th> <th>MFR</th> </tr> </thead> <tbody> <tr> <td></td> <td>EXISTING DOOR</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>NOTE: CONTRACTOR TO FIELD VERIFY CONDITION OF EXISTING HARDWARE. NOTIFY ARCHITECT IF ANY HARDWARE IS DAMAGED OR INOPERABLE PRIOR TO REMOVING AND REPLACING. ADD LOCK AS REQUIRED TO MATCH NEW KEY SYSTEM.</p>	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	3	HINGE	5B81 4.5 X 4.5	652	IVE	1	PASSAGE SET	ND10S ATH	626	SCH	1	WALL STOP	WS406/407CCV	630	IVE	1	SEAL	PERIMETER SEAL BY FRAME MFR.			QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	6	HINGE	5B81 4.5 X 4.5	652	IVE	1	CONST LATCHING BOLT	FB61P	630	IVE	1	DUST PROOF STRIKE	DP2	626	IVE	1	PASSAGE SET	ND10S ATH	626	SCH	2	OH STOP	450S	652	GLY	1	MEETING STILE	8193AA (2 PCS - 1 SET)	AA	ZER	1	SEAL	PERIMETER SEAL BY FRAME MFR.			QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	1	POCKET DOOR KIT	9850 SERIES X SIZE AS REQ		HAG	1	LONG DOOR PULL	(1 SET) PR 9268F 12" (MOUNT BACK TO BACK)	630	IVE	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	1	POCKET DOOR KIT	9850 SERIES X SIZE AS REQ		HAG	1	POCKET DOOR LOCK	CLASSROOM LOCK 2001ADAP-3ST W/PULLS	626	ACC	1	SFIC CORE	80-037	626	SCH	1	SFIC MORTISE CYL.	80-132 X CAM/COLLARS AS REQ (MULLION)	626	SCH	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR		EXISTING DOOR			
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	SLIDING GLASS DOOR HARDWARE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	ENTRANCE LOCK	ND53HD ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SFIC CORE	80-037	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SURFACE CLOSER	1461 REG X MTG BRKT, SPCR & PLATE	689	LCN																																																																																																																																																																																																																																																																																																																																												
1	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	WALL STOP	WS406/407CCV	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	ENTRANCE LOCK	ND53HD ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SFIC CORE	80-037	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	WALL STOP	WS406/407CCV	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	STOREROOM LOCK	ND80HD ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SFIC CORE	80-037	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SURFACE CLOSER	1461 SCUSH X MTG BRKT, SPCR & PLATE	689	LCN																																																																																																																																																																																																																																																																																																																																												
1	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	GASKETING	488SBK PSA H & J	BK	ZER																																																																																																																																																																																																																																																																																																																																												
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	STOREROOM LOCK	ND80HD ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SFIC CORE	80-037	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	OH STOP	90S	630	GLY																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
8	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	CONST LATCHING BOLT	FB61P	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	DUST PROOF STRIKE	DP2	626	IVE																																																																																																																																																																																																																																																																																																																																												
1	STOREROOM LOCK	ND80HD ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SFIC CORE	80-037	626	SCH																																																																																																																																																																																																																																																																																																																																												
2	OH STOP	450S	652	GLY																																																																																																																																																																																																																																																																																																																																												
1	MEETING STILE	8193AA (2 PCS - 1 SET)	AA	ZER																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S ATH OS-OCC	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SURFACE CLOSER	1461 SCUSH X MTG BRKT, SPCR & PLATE	689	LCN																																																																																																																																																																																																																																																																																																																																												
1	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
3	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	PASSAGE SET	ND10S ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	WALL STOP	WS406/407CCV	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
6	HINGE	5B81 4.5 X 4.5	652	IVE																																																																																																																																																																																																																																																																																																																																												
1	CONST LATCHING BOLT	FB61P	630	IVE																																																																																																																																																																																																																																																																																																																																												
1	DUST PROOF STRIKE	DP2	626	IVE																																																																																																																																																																																																																																																																																																																																												
1	PASSAGE SET	ND10S ATH	626	SCH																																																																																																																																																																																																																																																																																																																																												
2	OH STOP	450S	652	GLY																																																																																																																																																																																																																																																																																																																																												
1	MEETING STILE	8193AA (2 PCS - 1 SET)	AA	ZER																																																																																																																																																																																																																																																																																																																																												
1	SEAL	PERIMETER SEAL BY FRAME MFR.																																																																																																																																																																																																																																																																																																																																														
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
1	POCKET DOOR KIT	9850 SERIES X SIZE AS REQ		HAG																																																																																																																																																																																																																																																																																																																																												
1	LONG DOOR PULL	(1 SET) PR 9268F 12" (MOUNT BACK TO BACK)	630	IVE																																																																																																																																																																																																																																																																																																																																												
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
1	POCKET DOOR KIT	9850 SERIES X SIZE AS REQ		HAG																																																																																																																																																																																																																																																																																																																																												
1	POCKET DOOR LOCK	CLASSROOM LOCK 2001ADAP-3ST W/PULLS	626	ACC																																																																																																																																																																																																																																																																																																																																												
1	SFIC CORE	80-037	626	SCH																																																																																																																																																																																																																																																																																																																																												
1	SFIC MORTISE CYL.	80-132 X CAM/COLLARS AS REQ (MULLION)	626	SCH																																																																																																																																																																																																																																																																																																																																												
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR																																																																																																																																																																																																																																																																																																																																												
	EXISTING DOOR																																																																																																																																																																																																																																																																																																																																															

**GENERAL DOOR NOTES**

- CONTRACTOR SHALL VERIFY ALL HEAD, JAMB, AND SILL CONDITIONS FOR PROPER DOOR FIT AND OPERATION.
- CONTRACTOR TO FIELD VERIFY ALL DOOR FRAME DEPTHS PRIOR TO ORDERING.
- VERIFY ALL DOOR & FRAME ROUGH REQUIREMENTS WITH DOOR MANUFACTURER.
- LEVER U-SHAPED HANDLES REQUIRED AT ALL HANDICAP ACCESSIBLE LOCATIONS.
- ALL DOOR HARDWARE INSTALLED AT RATED DOORS SHALL BE EQUAL OR GREATER IN RATING THAN THE DOOR.
- ALL RATED DOOR ASSEMBLIES SHALL BE EQUIPPED WITH AN APPROVED CLOSER WHERE REQUIRED.
- ALL GLAZING IN A FIRE RATED DOOR SYSTEM IS TO HAVE A RATING TO MATCH THAT OF THE DOOR SYSTEM.
- INSTALL SHIMS BETWEEN THE DOOR FRAME AND FRAMING STUDS. THERE SHALL BE A SHIM AT EACH HINGE AND ONE FOR THE LOCK STRIKE.
- ALL GLAZING LOCATED IN DOORS TO BE TEMPERED.
- WHEN APPLYING SEALANT, DO NOT PLUG WEEP HOLES.
- ALL FRAMES AND SEALS TO BE THOROUGHLY CAULKED AND WEATHER STRIPPED TO PREVENT AIR LEAK AND TRANSMISSION OF SOUND.
- ANCHORING OF DOOR PRODUCTS SHOULD ALWAYS BE DONE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- INTERIOR FINISH FLOOR MATERIAL SURFACE AT DOORS SHALL NOT EXCEED MAX 1/2" HEIGHT ABOVE EXTERIOR FINISH SURFACE AND MAX 1/4" VERTICAL CHANGE THRESHOLD.
- THRESHOLDS AT ENTRY DOORS TO MEET ALL ACCESSIBILITY REQUIREMENTS.
- IF DOORS HAVE A PRIVACY LOCK-SET, LOCK-SET MUST BE PUSH-BUTTON TYPE.
- ACCESSIBLE TOILET ROOM DOORS TO BE SELF-CLOSING.
- 10" MIN. TO DOOR BOTTOM RAIL FOR ENTRANCE DOORS, PANELED, AND DOORS WITH GLASS.
- ALL AUTOMATIC DOOR CLOSERS SHALL BE INSTALLED INSIDE THE ROOM THE DOOR IS TO SERVE.
- ALL DOOR HINGES TO BE 'NICKEL' FINISH. DO NOT PAINT.
- MAIN FRONT EXIT DOORS REQUIRING THE USE OF A KEY, SHALL HAVE A SIGN READILY VISIBLE THAT READS 'THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED' IN ONE INCH LETTERS CONTRASTING BACKGROUND.

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

**DOOR ABBREVIATIONS**

<b>ACS</b>	ACCESS CONTROL SYSTEM
<b>AL</b>	ALUMINUM
<b>AL/GL</b>	ALUMINUM & GLASS
<b>HM</b>	HOLLOW METAL
<b>HM/GL</b>	HOLLOW METAL & GLASS
<b>SCPL</b>	SOLID CORE PLASTIC LAMINATE

**GLAZING SCHEDULE**

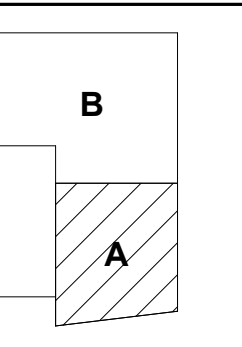
GL-1	1/4" INCH TEMPERED GLASS
GL-2	1/2" INCH TEMPERED GLASS

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

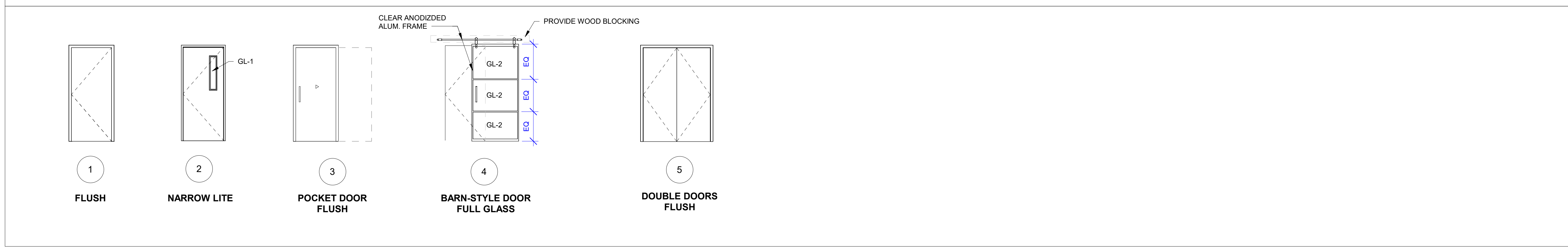
**PROJECT NUMBER**

24017

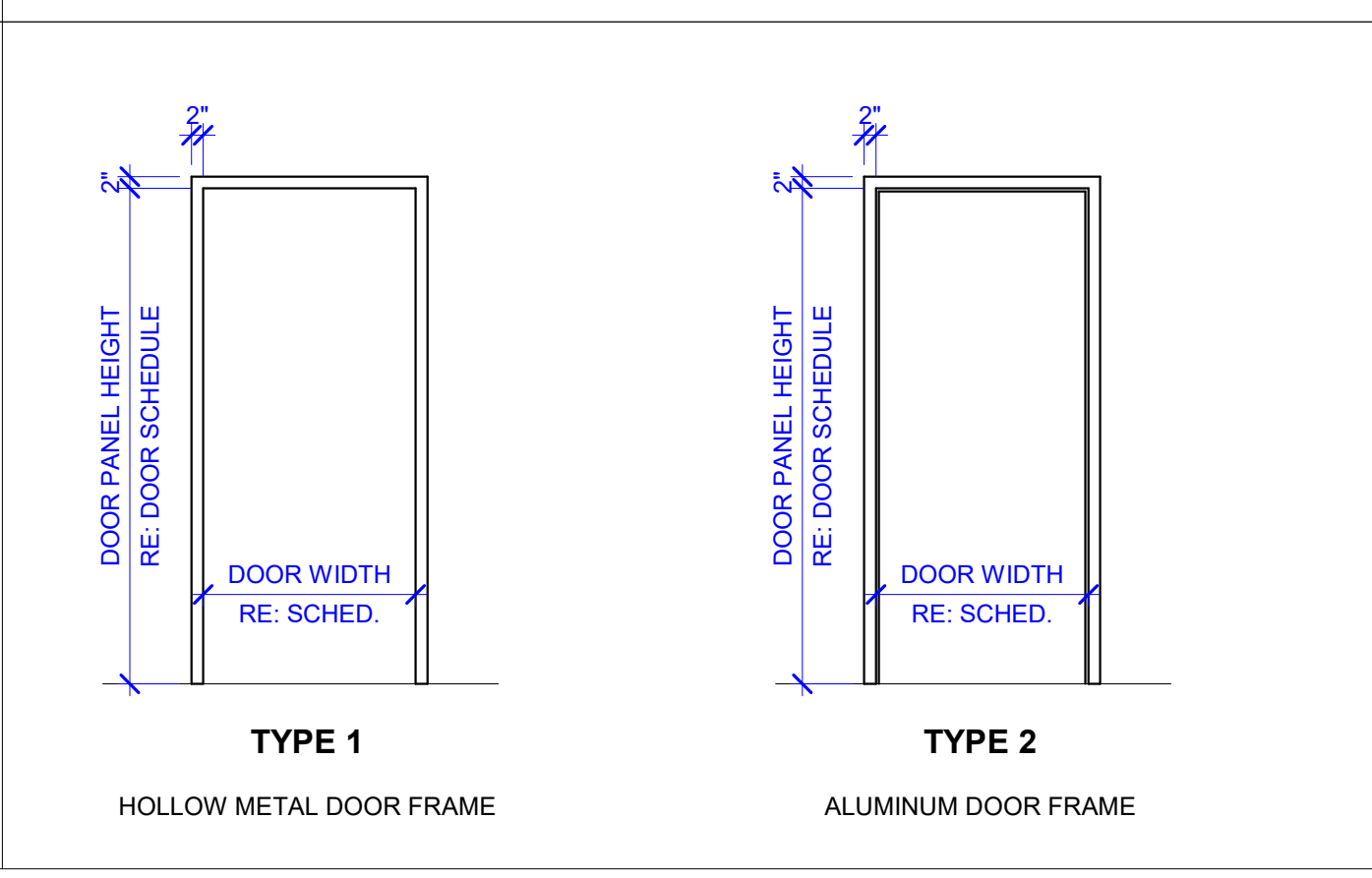
**DATE**

05/30/24

**DOORS LEGEND**



**DOOR ABBREVIATIONS**



**DOOR SCHEDULE & DOOR TYPE LEGEND**

A801

**STOREFRONT AND ALUMINIUM FRAME SCHEDULE**

Mark	ROUGH OPENING		STOREFRONT ELEVATION	FRAME MATERIAL	FRAME FINISH	GLAZING TYPE	DETAILS			COMMENTS
	WIDTH	HEIGHT					HEAD	JAMB	SILL	
103	7' - 10"	7' - 0"	C	ALUM	CLEAR ANODIZED	GL-2	1/A761	2/A761	4/A761	
108	6' - 9"	4' - 0"	A	ALUM	CLEAR ANODIZED	GL-1	1/A761	2/A761	3/A761	
109	10' - 6"	10' - 0"	B	ALUM	CLEAR ANODIZED	GL-2	1/A761	2/A761	4/A761	INSTALL WINDOW FILM WF-01, RE: FINISH SCHEDULE. COORDINATE WITH OWNER PRIOR TO INSTALLATION

**GENERAL WINDOW NOTES**

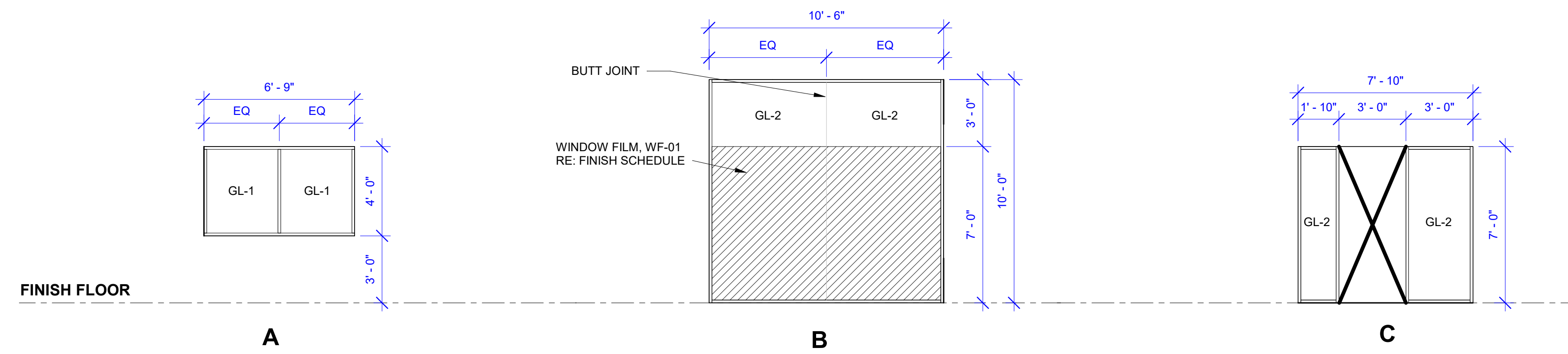
1. ALL GLAZING TO MEET STATE, LOCAL AND FEDERAL CODES.
2. CONTRACTOR TO VERIFY ALL HEAD, JAMB, AND SILL CONDITIONS FOR PROPER WINDOW FIT AND OPERATION.
3. VERIFY ALL WINDOW FRAME ROUGH REQUIREMENTS WITH WINDOW MANUFACTURER.
4. CONTRACTOR TO FIELD VERIFY ALL WINDOW OPENING SIZES PRIOR TO INSTALLATION.
5. SEE WINDOW ELEVATIONS FOR GLASS TYPES AND LOCATIONS.
6. ALL WINDOWS AT STAIR ENCLOSURE SHALL BE SAFETY GLAZED WITH TEMPERED GLASS.

**GLAZING SCHEDULE**

- GL-1 1/4" INCH TEMPERED GLASS
- GL-2 1/2" INCH TEMPERED GLASS



**STOREFRONT ELEVATIONS**



**PROJECT TEAM**

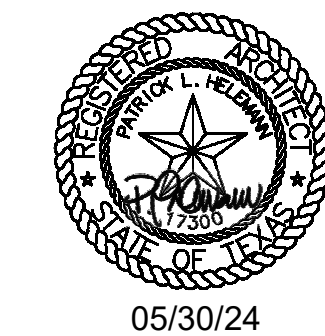
**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

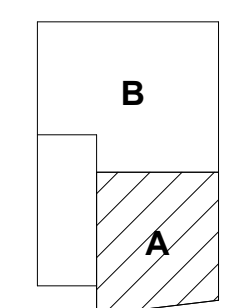
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741

**PROJECT NUMBER**

24017

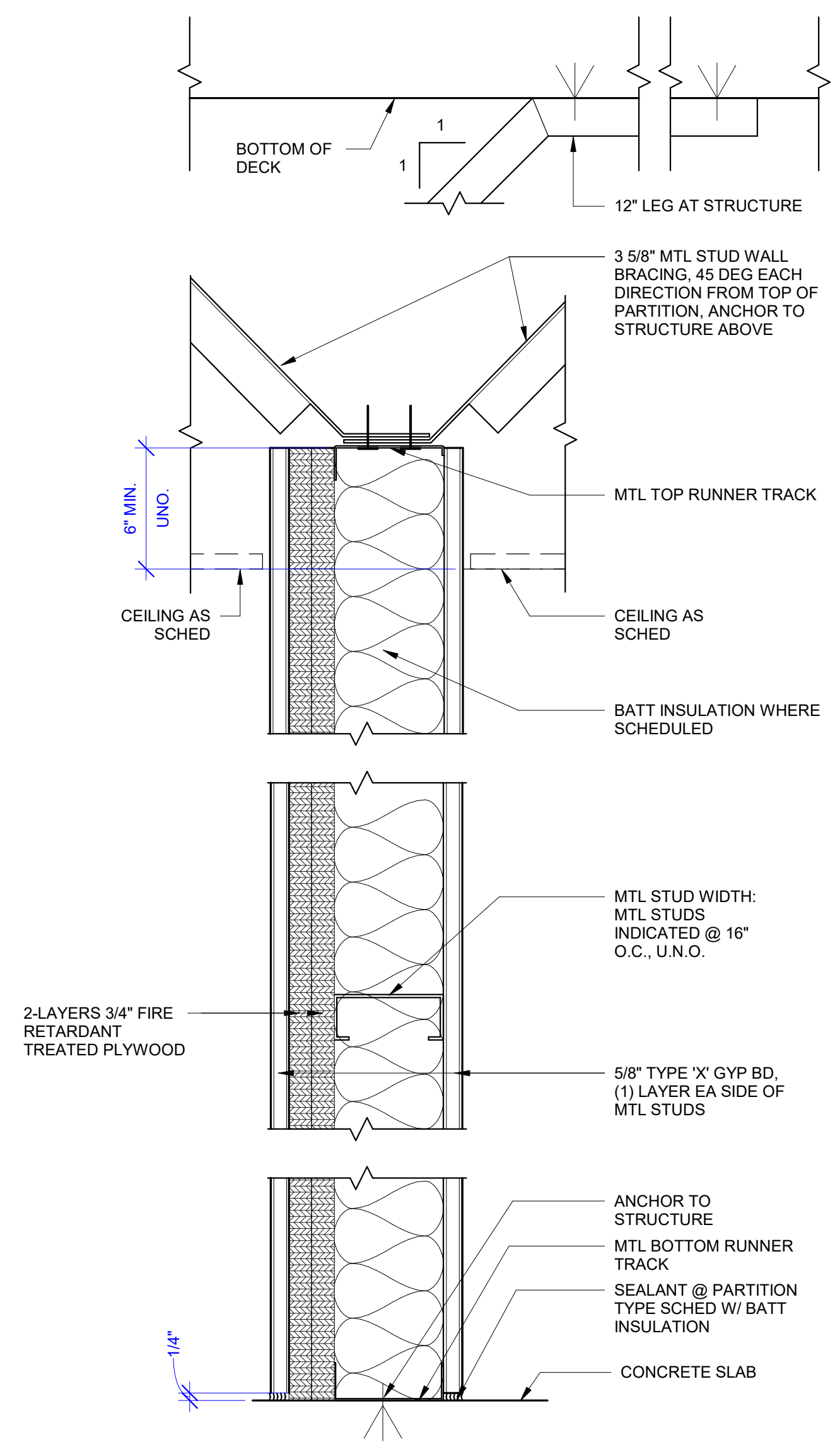
**DATE**

05/30/24

**WINDOW & STOREFRONT SCHEDULE**

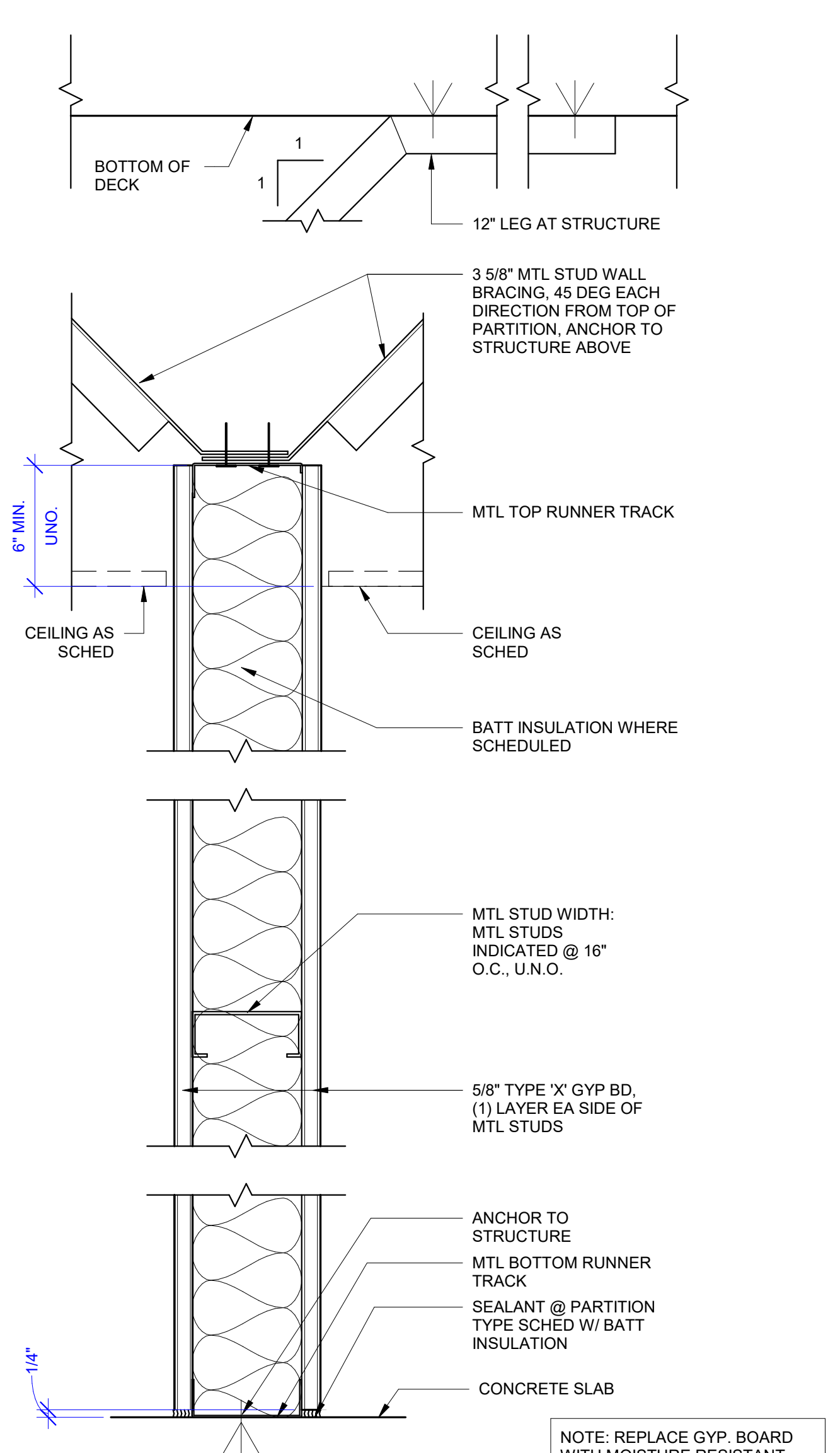
**A802**





**METAL STUD - INTERIOR PARTITION SCHEDULE - NOT TO DECK WITH PLYWOOD**

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	U.L. #	INSULATION (R-VALUE MIN.)	STC RATING	FINISH DIMENSION	COMMENT
MP.1	MS 3 5/8"	16" O.C.	--	--	BATT	--	0' - 6 3/8"	



**METAL STUD - INTERIOR PARTITION SCHEDULE - NOT TO DECK**

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	U.L. #	INSULATION (R-VALUE MIN.)	STC RATING	FINISH DIMENSION	COMMENT
MC.1	MS 3 5/8"	16" O.C.	--	--	BATT	--	0' - 4 7/8"	

NOTE: REPLACE GYP. BOARD WITH MOISTURE RESISTANT GYP. BOARD AT ALL WET LOCATIONS AND WALL TILE LOCATIONS.

**GENERAL PARTITION NOTES**

- REFER TO FINISH SCHEDULE FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
- REFER TO BRACING DETAILS FOR SUPPORT OF THE TOP OF EACH PARTITION TYPE AND BRACING OF PARTITIONS THAT EXCEED THE LIMITING HEIGHT OF PARTITION TYPES.
- MOISTURE RESISTANT CEMENT BOARD TO BE INSTALLED ON ALL 'WET WALLS' AND WALLS WITH TILE.

**INTERIOR METAL STUD PARTITION NOTES:**

- ALL METAL STUD PARTITIONS SHALL BE 25 GAUGE METAL STUDS AT 16" O.C. U.N.O. IF THE LIMITING HEIGHT FOR A 25 GAUGE STUD PARTITION IS EXCEEDED, INCREASE GAUGE OF STUDS. NOTIFY ARCH. PRIOR TO INSTALLATION.
- PROVIDE 20 GAUGE METAL STUDS, IN LIEU OF 25 GAUGE METAL STUDS, AT STUD WALL WITH TILE FINISHES.
- METAL STUDS PARTITION BRACING.
  - WHERE BRACING METHODS BETWEEN THIS SHEET AND STRUCT. CONFLICT, STRUCT. SHALL OVERRIDE, NOTIFY ARCH. PRIOR TO INSTALLATION.
  - PROVIDE INTERMEDIATE BRACING AT ALL METAL STUD PARTITIONS THAT EXCEED THE VERTICAL LIMIT HEIGHT OF METAL STUDS.
  - ALL BRACING SHALL BE AT STUD POINTS.
- RIGIDLY BRACE ALL DOOR FRAMES AT THE HEAD, HINGE, AND STRIKE SIDES, RIGIDLY BRACE ALL WINDOW FRAMES AT THE HEAD, JAMBS, AND SILL.
- LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS:
  - PARTITIONS OR FURRINGS EXCEEDING 30'-0" SPANS HORIZ. OR VERT.
  - WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL.
  - AT CHANGES WITHIN PLANE OR PARTITION.
  - AT EXPANSION JOINTS.
  - AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR FRAMES AND WINDOW FRAMES, ABOVE AND BELOW FOR FULL HEIGHT OF WALL.
- FIRE RATED PARTITIONS:
  - REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR DETAILED DESCRIPTIONS OF FIRE RATED PARTITIONS.
  - PROVIDE TYPE 'X' FIRE RESISTIVE GYPSUM BOARD 5/8" THICK, U.N.O.
  - FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSULATION.
  - SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. FIRE RATED SEALANT.
- PARTITIONS WITH SOUND ATTENUATION BATT INSULATION BLANKETS:
  - PROVIDE FULL THICK SOUND ATTENUATION BATT INSULATION BLANKETS FULL HEIGHT OF PARTITION, U.N.O.
  - FILL ALL GAPS AND DECK VOIDS WITH CONT. SOUND ATTENUATION SAFING INSULATION
  - TAPE AND BED OR CAULK ALL JOINTS BETWEEN GYPSUM BOARD PANELS.
  - SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. ACOUSTICAL SEALANT (USE SEALANT INDICATED IN ITEM ABOVE, IN LIEU OF ACOUSTICAL SEALANT, AT PARTITIONS DESIGNATED AS FIRE-RATED PARTITIONS)



**PROJECT TEAM**

**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, L.L.C.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

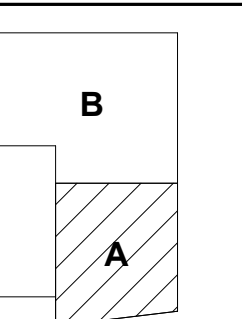
#	DESCRIPTION	DATE

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741

**PROJECT NUMBER**

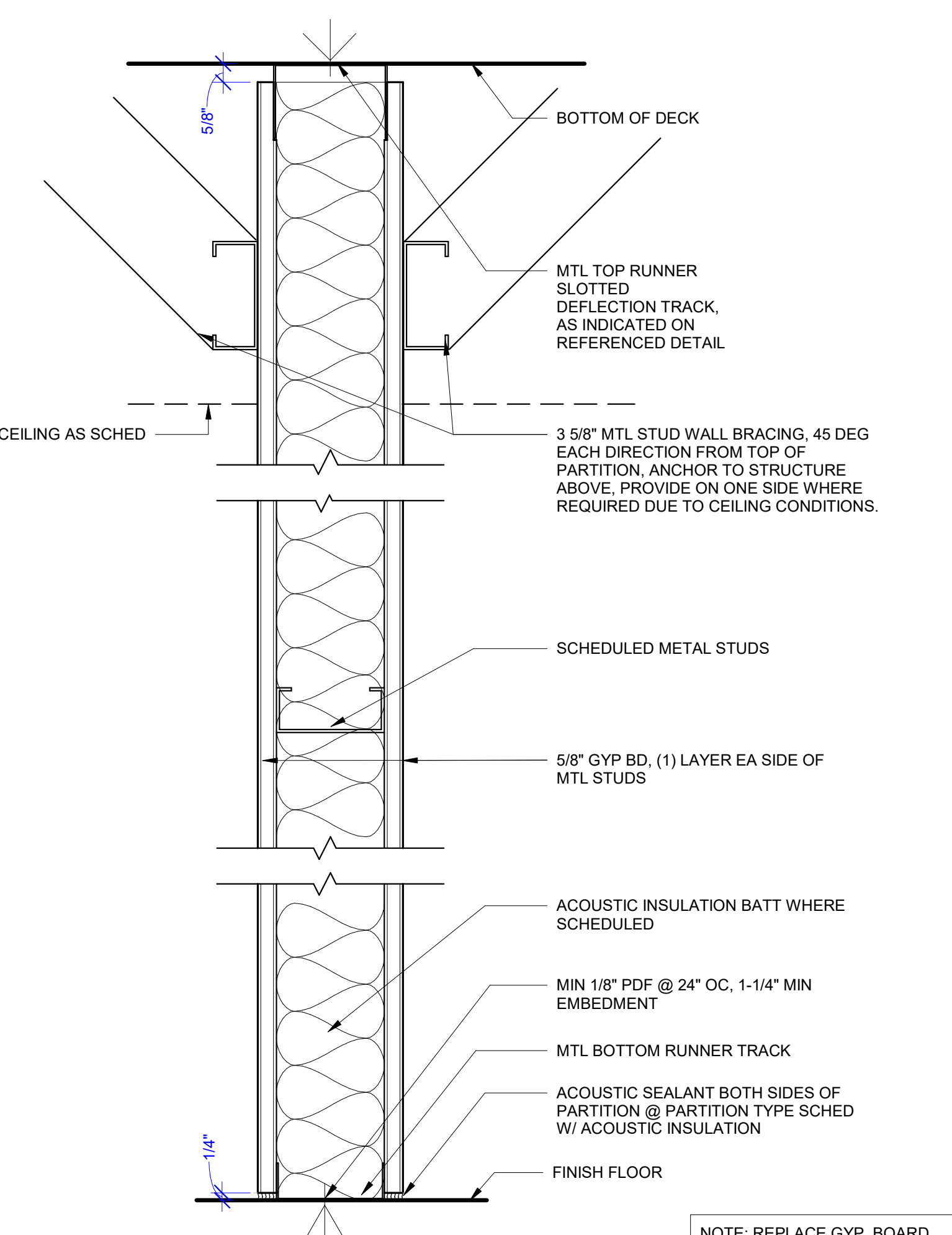
24017

**DATE**

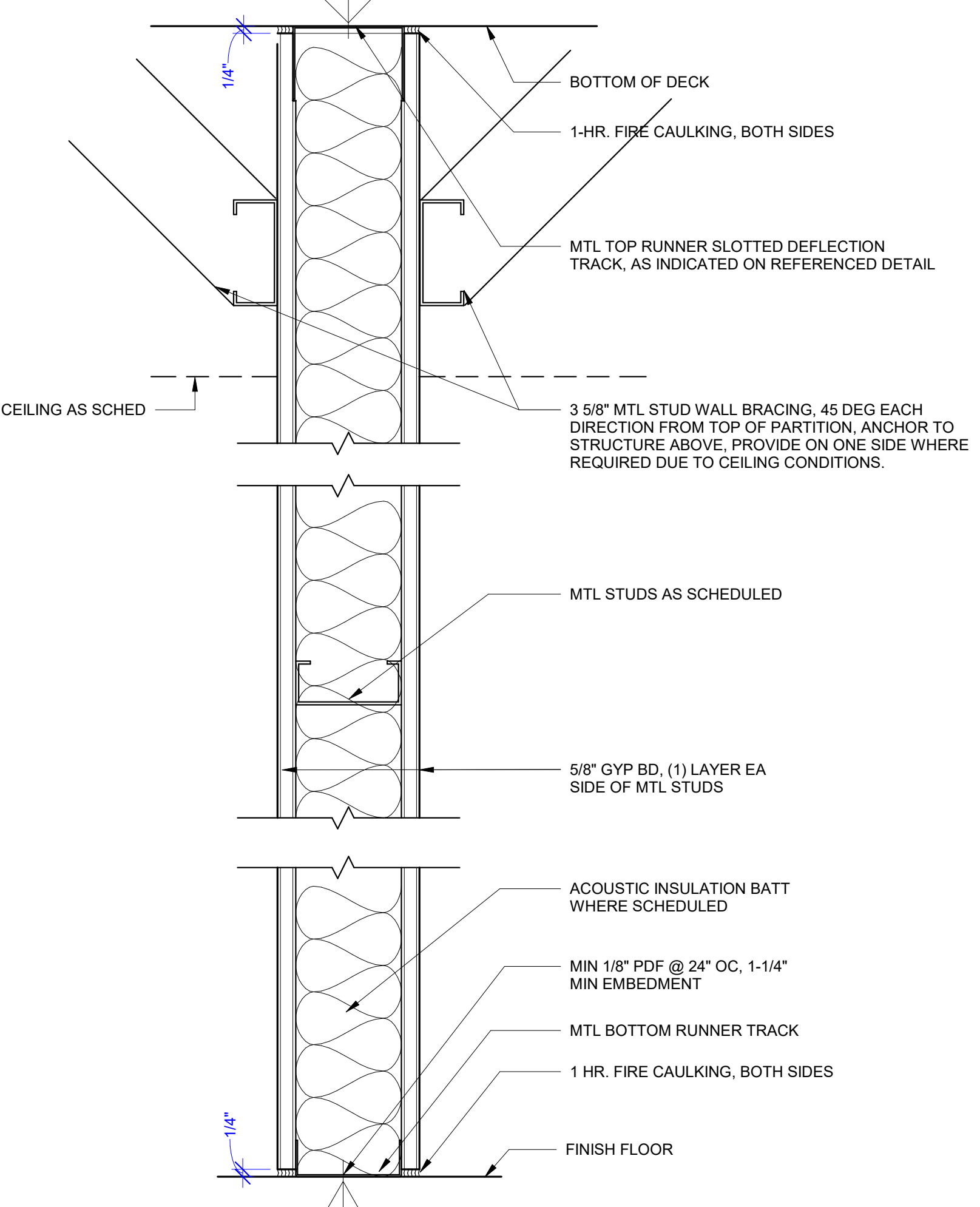
05/30/24

**WALL PARTITION SCHEDULE**

**A811**

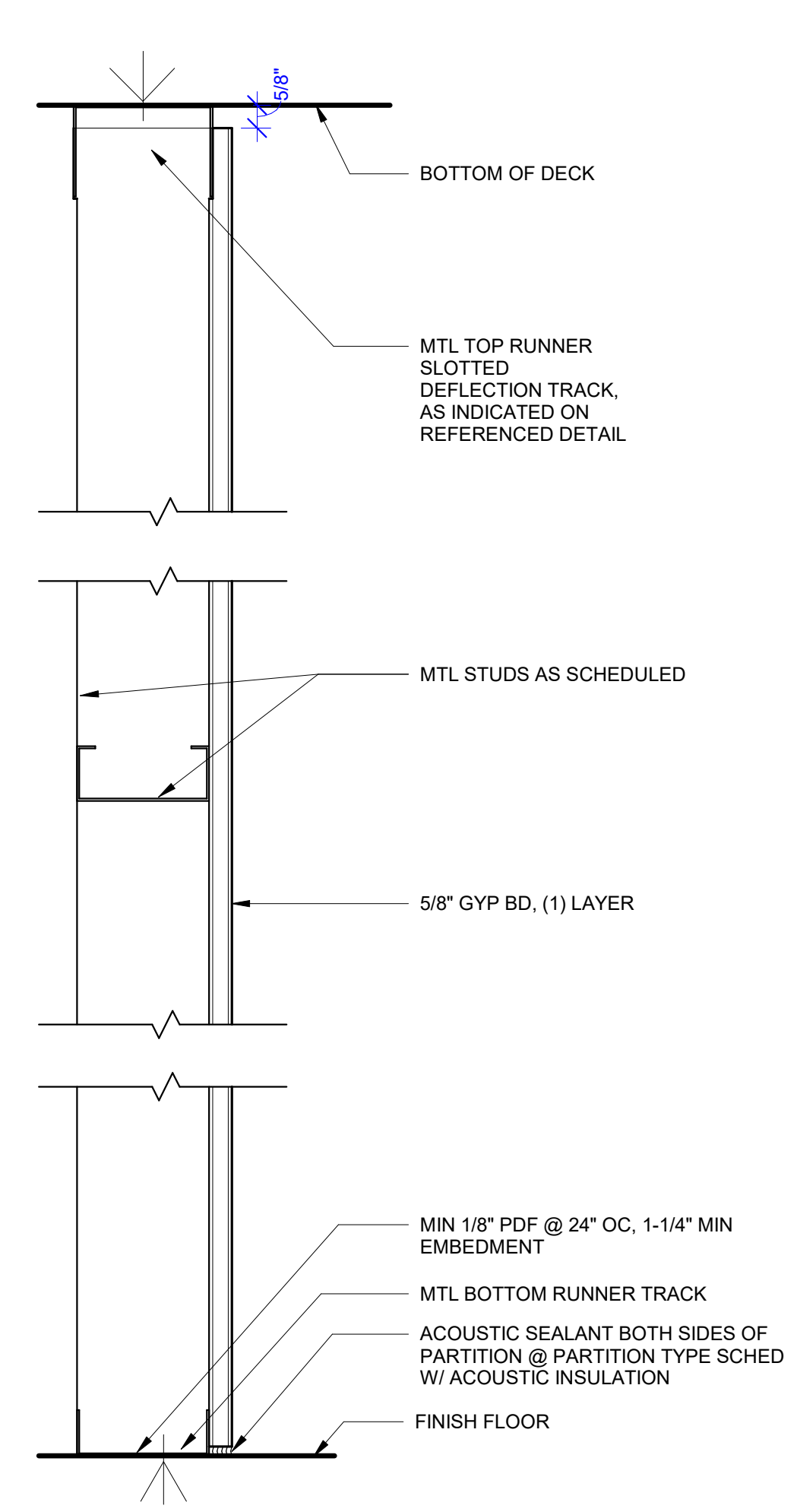


NOTE: REPLACE GYP. BOARD WITH MOISTURE RESISTANT GYP. BOARD AT ALL WET LOCATIONS AND WALL TILE LOCATIONS.



**METAL STUD - INTERIOR FIRE RATED PARTITION SCHEDULE**

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	U.L. #	INSULATION (R-VALUE MIN.)	STC RATING	FINISH DIMENSION	COMMENT
MB.1	MS 3 5/8"	24" O.C.	1 HR	UL U465	BATT	50	0' - 4 7/8"	



**METAL STUD - INTERIOR FURRING PARTITION SCHEDULE**

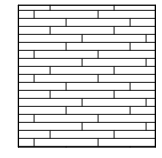
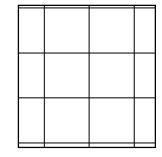
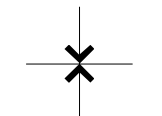
TYPE	STUD SIZE	STUD SPACING	FIRE RATING	U.L. #	INSULATION (R-VALUE MIN.)	STC RATING	FINISH DIMENSION	COMMENT
MF.3	MS 3 5/8"	16" O.C.	NR	--	BATT	--	0' - 4 1/4"	

**METAL STUD - INTERIOR PARTITION SCHEDULE**

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	U.L. #	INSULATION (R-VALUE MIN.)	STC RATING	FINISH DIMENSION	COMMENT
MA.1	MS 3 5/8"	16" O.C.	--	--	BATT	--	0' - 4 7/8"	



**FINISH PLAN LEGEND**

-  LVT-01
-  FTL-01
-  TRANSITION STRIP  
RE: IA901



**ELEMENT ARCHITECTS**  
+ interiors

**PROJECT TEAM**

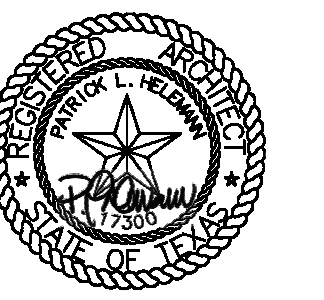
**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR.  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

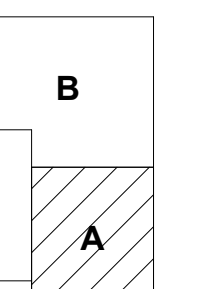
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
AUSTIN, TX 78741

**PROJECT NUMBER**

24017

**DATE**

05/30/24

**FINISH FLOOR PLAN - AREA A - LEVEL 1**

IA211

GENERAL - ROOM FINISH SCHEDULE						
ROOM NAME	RM #	WALL FINISH	FLOOR FINISH	CEILING FINISH	BASE FINISH	NOTES
LEVEL 2						
WAITING ROOM	100	PT-01	LVT-01	GYP	RB-01	
RECEPTION	101	PT-01	LVT-01	GYP	RB-01	
RESTROOM	102	PT-01, WTL-01, WTL-02	FTL-01	GYP	WTL-01, WTL-02	
CONSULT	103	PT-01	LVT-01	ACT	RB-01	
IT	104	PT-01	LVT-01	GYP	RB-01	
X-RAY	105	PT-01	LVT-01	ACT	RB-01	
STORAGE	106	PT-01	LVT-01	ACT	RB-01	
MED GAS	106A	PT-01	LVT-01	GYP	RB-01	
HYGIENE STATIONS	107	PT-01	LVT-01	ACT	RB-01	
STERILIZATION	108	PT-01	LVT-01	ACT	RB-01	
WASHER/DRYER	108A	PT-01	LVT-01	GYP	RB-01	
OFFICE	109	PT-01	LVT-01	ACT	RB-01	
OP ROOM 1	110	PT-01, PT-04	LVT-01	ACT	RB-02	
LAB	111	PT-01	LVT-01	ACT	RB-01	
OP ROOM 2	112	PT-01, PT-03	LVT-01	ACT	RB-02	
SURGICAL SUITE	113	PT-01, PT-02	LVT-01	ACT	RB-02	
BREAK ROOM	114	PT-01	LVT-01	ACT	RB-01	
MECH.	115	PT-01	LVT-01	ACT	RB-01	
CORRIDOR	116	PT-01	LVT-01	GYP	RB-01	

FINISH LEGEND						
ITEM:	MANUFACTURER:	DESCRIPTION:	COLOR:	SIZE:	LOCATION:	NOTES:
<b>LVT</b>						
LVT-01	MANNINGTON	FIELD LVT	STRUCTURE- POINT	12" X 24"	@ ALL FLOORS	TBD
<b>TILE</b>						
FTL-01	DALTILE	RESTROOM FLOOR TILE	PORTFOLIO-WHITE	24" X 24"	RESTROOM FLOOR	TBD
WTL-01	AMERICAN OLEAN	RESTROOM WALL TILE	COLOR STORY-ICE WHITE	3"X 6"	RESTROOM WALLS (FIELD TILE)	VERTICAL STACK PATTERN
WTL-02	AMERICAN OLEAN	RESTROOM ACCENT WALL TILE	COLOR STORY-GREEN APPLE	3"X 6"	RESTROOM WALLS (ACCENT TILE)	VERTICAL STACK PATTERN
WTL-03	DALTILE	COFFEE BAR ACCENT WALL TILE	KEYSTONES-ARCTIC WHITE- HEXAGON	1.5" X 1.5"	UPPER COFFEE BAR WALL	TBD
WTL-04	DALTILE	COFFEE BAR ACCENT WALL TILE (2)	KEYSTONES-SEA BREEZE- HEXAGON	1.5" X 1.5"	LOWER COFFEE BAR WALL	TBD
<b>FLOOR TRANSITION</b>						
FTR-01	SCHLUTER	FLOOR TRANSITION STRIP	SCHIENEPROFILE- TBD	TBD	BETWEEN HALLWAY AND RESTROOM	COLOR TO MATCH BATHROOM FIXTURES
<b>BASE</b>						
RB-01	TARKETT	RUBBER BASE	GRAY HAZE	4"	@ ALL WALLS EXCLUDING SURGICAL SUITE, OP ROOM 1 & 2	TBD
RB-02	TARKETT	RUBBER BASE	GRAY HAZE	6"	@ SURGICAL SUITE, OP ROOM 1 & OP ROOM 2.	TBD
<b>PAINT</b>						
PT-01	SHERWIN WILLIAMS	FIELD PAINT	SW 7009 PEARLY WHITE	N/A	@ ALL WALLS BESIDES INDICATED.	TBD
PT-02	SHERWIN WILLIAMS	SURGICAL SUITE ACCENT WALL/ PLAY AREA NOOK	SW 6508 SECURE BLUE	N/A	SURGICAL SUITE ACCENT WALL AND PLAY AREA NOOK	TBD
PT-03	SHERWIN WILLIAMS	OP ROOM 2 ACCENT WALL/ PLAY AREA NOOK	SW 6889 OVERJOY	N/A	OP ROOM 2 ACCENT WALL AND PLAY AREA NOOK	TBD
PT-04	SHERWIN WILLIAMS	OP ROOM 1 ACCENT WALL/ PLAY AREA NOOK	SW 9030 LIMON FRESCO	N/A	OP ROOM 1 ACCENT WALL AND PLAY AREA NOOK	TBD
PT-05	SHERWIN WILLIAMS	HOLLOW METAL DOORS AND FRAMES	SW 7029 AGREEABLE GRAY	N/A	OP ROOM 1 ACCENT WALL AND PLAY AREA NOOK	TBD
<b>WINDOW FILM</b>						
WF-01	NATIONAL WALLCOVERING	WINDOW FILM	CONFETTI STANDARD REPEAT-LSWF017	N/A	OFFICE CURTAIN WALL	PATTERN TO EXTEND TO BOTTOM OF GLASS CURTAIN WALL.
<b>PLASTIC LAMINATES</b>						
PLAM-01	WILSONART	PLASTIC LAMINATE COUNTERTOPS	WHITE CARRERA	N/A	AT BREAKROOM, OFFICE, STERILIZATION, X-RAY, AND RECEPTION MILLWORK.	TBD
PLAM-02	WILSONART	PLASTIC LAMINATE UPPER CABINETS	VAPOR STRANDZ	N/A	AT ALL MILLWORK UPPER CABINETS.	TBD
PLAM-03	ARBORITE	PLASTIC LAMINATE LOWER CABINETS	WILLOW GRAY	N/A	AT ALL MILLWORK LOWER CABINETS, DOOR PANELS	TBD
PLAM-04	NEVAMAR	PLASTIC LAMINATE HEXAGON WALL (1)	SUNKEN TREASURE	N/A	ON THE INTERIOR OF HEXAGON SHAPES, WITH CORRESPONDING COLOR.	TBD
PLAM-05	NEVAMAR	PLASTIC LAMINATE HEXAGON WALL (2)	HONEY PLANTAIN	N/A	ON THE INTERIOR OF HEXAGON SHAPES, WITH CORRESPONDING COLOR.	TBD
PLAM-06	NEVAMAR	PLASTIC LAMINATE HEXAGON WALL (3)	PEAR GREEN	N/A	ON THE INTERIOR OF HEXAGON SHAPES, WITH CORRESPONDING COLOR.	TBD
<b>SOLID SURFACE COUNTERTOPS</b>						
SS-01	PORCELANOSA HOUSTON	SOLID SURFACE COUNTERTOP	POLAR STONE	N/A	AT OP 1 AND 2, SURGICAL SUITE, HYGINE STATIONS, AND LAB MILLWORK.	TBD
<b>LIGHTING FIXTURES</b>						
LF-01	LAI HOUSTON-LUMENWORX	RIM HEXAGON PENDANT	WHITE	36 5/8"	WAITING ROOM	TBD
LF-02	LAI HOUSTON-LUMENWORX	RIM HEXAGON PENDANT	WHITE	24 5/8"	WAITING ROOM	TBD
LF-03	LAI HOUSTON-LEVITON	3.5" DOWNLIGHT PENDANT	WHITE	3.5"	ABOVE RECEPTION DESK	TBD
<b>CUSHION FABRIC</b>						
FB-01	MOMENTUM	CUSHION FABRIC	LAKE	N/A	HYGINE STATION BENCHES	TBD

**FINISH PLAN GENERAL NOTES**

- PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN WET AREAS WITH HIGH MOISTURE CONTENT. I.E. RESTROOMS. PROVIDE WATER-RESISTANT GYPSUM BACKING BOARD AS A BASE FOR ANY WALL AND CEILING TILE OR WALL AND CEILING PANELS IN WET AREAS. CORROSION-RESISTANT FASTENERS TO BE USED IN WET AREAS AS WELL.
- ALL FLOORING FINISH TRANSITIONS TO BE MADE AT CENTERLINE OF DOORS AND CASED OPENING FRAMES. UNLESS OTHERWISE SHOWN. PROVIDE RUBBER FLOOR TRANSITION STRIP BETWEEN CPT AND LVT TILE AND LVT/CPT & CONCRETE. UNLESS NOTED OTHERWISE. SUBMIT SAMPLE FOR ARCHITECT'S APPROVAL. REFER TO THE ACCESSIBILITY INFORMATION SHEET PROVIDED FOR ADDITIONAL TRANSITION REQUIREMENTS.
- CONTRACTOR TO INSTALL ACCESSORIES AS DIRECTED BY DESIGNER AND/OR OWNER.
- ALL CASING CORNERS TO BE MITERED, U.N.O.
- ALL DIMENSIONS TO FINISHED FACE OF PARTITIONS. U.N.O.
- ANY DESIRED SUBSTITUTIONS MUST BE SUBMITTED IN WRITING TO THE OWNER COMPLETE WITH SAMPLES, TECHNICAL INFORMATION AND PRODUCT LITERATURE. THE OWNER RESERVES THE RIGHT TO REJECT A REQUESTED SUBSTITUTION FOR ANY REASON. ANY UNAUTHORIZED SUBSTITUTION SHALL BE REPLACED BY THE REASONABLE PARTY AT NO COST TO THE OWNER OR DESIGNER.
- ALL INSTALLATIONS SHALL CONFORM WITH THE INDUSTRY STANDARDS AND FOLLOW RECOMMENDATIONS AND STANDARDS SET FORTH BY THE MANUFACTURERS.
- PAINTING CONTRACTOR SHALL REFERENCE FINISH SCHEDULE FOR EXACT PRODUCT DESCRIPTION AND INSTALLATION METHOD/ MATERIALS/ SURFACE PREPARATION. PRIOR TO APPLICATION, SUBMIT FINISH SAMPLES TO OWNER FOR APPROVAL. PRODUCT MINIMUM OF TWO COATS OF PAINT OR COAT-TO-COVER DEPENDING UPON SUBSTRATE CONDITION. FOR SPECIAL MAINTENANCE FINISH COATINGS CONTRACTOR SHALL TAKE CARE TO FOLLOW MANUFACTURER'S APPLICATION AND SURFACE PREPARATIONS EXACTLY.
- TRIM, CASINGS AND DOORS TO BE PAINTED AS NOTED IN THE FINISH SCHEDULE ON IA003.
- PROVIDE BAL ALUMINUM HORIZONTAL BLINDS AT ALL EXTERIOR WINDOWS.

**PROJECT TEAM**

**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368

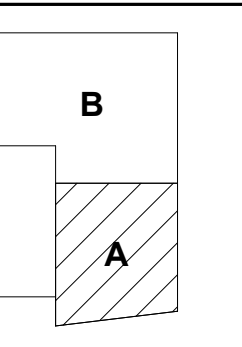
#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



05/30/24

**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DRIVE, UNIT 201  
 AUSTIN, TX 78741

**PROJECT NUMBER**

24017

**DATE**

05/30/24

**FINISH SCHEDULES**

IA901



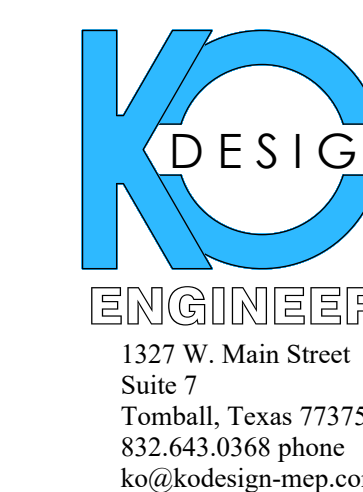
ELEMENT ARCHITECTS + interiors

PROJECT TEAM

OWNER
SUPER KIDS DENTAL
2410 E RIVERSIDE DRIVE, SUITE 12-H
AUSTIN, TX 78741
www.superkidsaustin.com

ARCHITECT
ELEMENT ARCHITECTS, LLC.
1250 WOOD BRANCH PARK DR.
SUITE 480
HOUSTON, TX 77079
(713) 874 0775
www.ElementArchitects.com

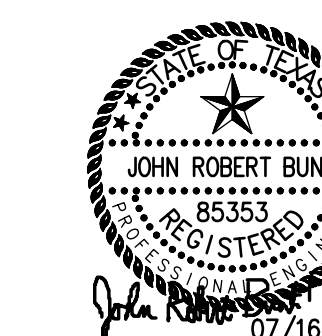
MEP
K.O. DESIGN
1327 W. MAIN STREET, SUITE 7
TOMBALL, TX 77375
832.643.0368 phone
koo@kodesign-mep.com



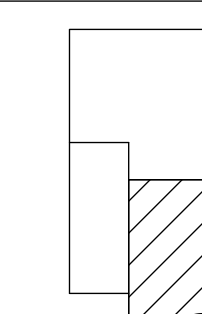
TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION #: F-9072
EXPIRES: 31 MARCH 2025

Table with 3 columns: #, DESCRIPTION, DATE. Row 1: 1 CITY OF AUSTIN RESPONSE #1 06/20/24. Row 2: 2 CITY OF AUSTIN RESPONSE #2 07/16/24

SEAL / SIGNATURE



KEY MAP



PROJECT STATUS

ISSUE FOR PERMIT

PROJECT NAME

SUPER KIDS DENTAL

PROJECT ADDRESS

6707 E RIVERSIDE DR., AUSTIN, TX 78741

PROJECT NUMBER

24017

DATE

05/23/24

MECHANICAL FLOOR PLAN

M101

MECHANICAL SPECIFICATIONS

- 1. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL AIR CONDITIONING SYSTEM. ALL APPURTENANCES REQUIRED BUT NOT SHOWN SHALL BE PROVIDED.
2. THE CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES. ALL VOLTAGES AND POWER REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
3. THE EXHAUST FANS SHALL BE MANUFACTURED BY COOK, GREENHECK, OR ACME.
4. DUCTWORK SHALL BE GALVANIZED SHEETMETAL CONSTRUCTED TO SMACNA STANDARDS FOR 2" WG PRESSURE. EXHAUST DUCTS SHALL BE CONSTRUCTED TO 2" NEG. PRESSURE. SEAL ALL SEAMS IN THE DUCT WITH HARDCAST IRON GRIP UNLESS OTHERWISE INDICATED.
5. SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH 1-1/2" MINIMUM DUCT INSULATION. THE INSULATION SHALL BE MANUFACTURED BY OWENS CORNING, SCHULLER, KNAUF, OR CERTAINTED. THE INSTALLED R-VALUE OF THE INSULATION SHALL BE 6.0 OR BETTER WITH VAPOR BARRIER. THE INSULATION SHALL BE STAPLED ON 6" CENTERS AND SEALED WITH PRESSURE SENSITIVE TAPE. THE R-VALUE MUST BE INDICATED ON THE EXTERIOR SIDE OF THE INSULATION FOR THE CITY INSPECTOR TO VERIFY.
6. THE AIR DEVICES SHALL BE MANUFACTURED BY TITUS, KRUEGER OR NAILOR.
7. FLEXIBLE DUCTWORK TO BE INSULATED WITH R-6 INSULATION. INSULATION SHALL BE UL 181 LABELED. PROVIDE WITH 1" OVERLAP. INSTALL AND SUPPORT PER MANUFACTURERS INSTRUCTIONS. INSULATED FLEXIBLE DUCTWORK TO BE 20/50 RATED FOR SMOKE AND FLAME.

MECHANICAL CONTRACTOR NOTES

CONTRACTOR TO BE AWARE OF OBSTRUCTIONS AND BE PREPARED TO OFFSET DUCT AND PIPING BOTH VERTICALLY AND HORIZONTALLY TO ROUTE MECHANICAL SYSTEM. CONTRACTOR SHALL MAINTAIN FREE AREA OF DUCTWORK. CONTRACTOR SHALL SUBMIT RFI'S FOR ALL CHANGES PRIOR TO INSTALLATION. CONTRACTOR SHALL REFER TO DETAILS FOR DETAILED INSTALLATION INSTRUCTION.

SYMBOL LEGEND

Table with 2 columns: SYMBOL, DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS). Includes sections for GENERAL, DUCTWORK, SENSORS, AIR DEVICES, and PIPING.

LOCATION OF THRU-WALL LOUVERS, VENTS, ETC. SHALL BE COORDINATED WITH EXISTING BUILDING EQUIPMENT AND SHALL BE PAINTED TO MATCH WALL FINISH.

CONDENSATE DRAIN SIZING SCHEDULE

Table with 2 columns: PIPE DIA., EQUIPMENT CAPACITY. Rows include 3/4", 1", 1-1/4", 1-1/2", and 2" pipe sizes.

MECHANICAL CONTRACTOR NOTES

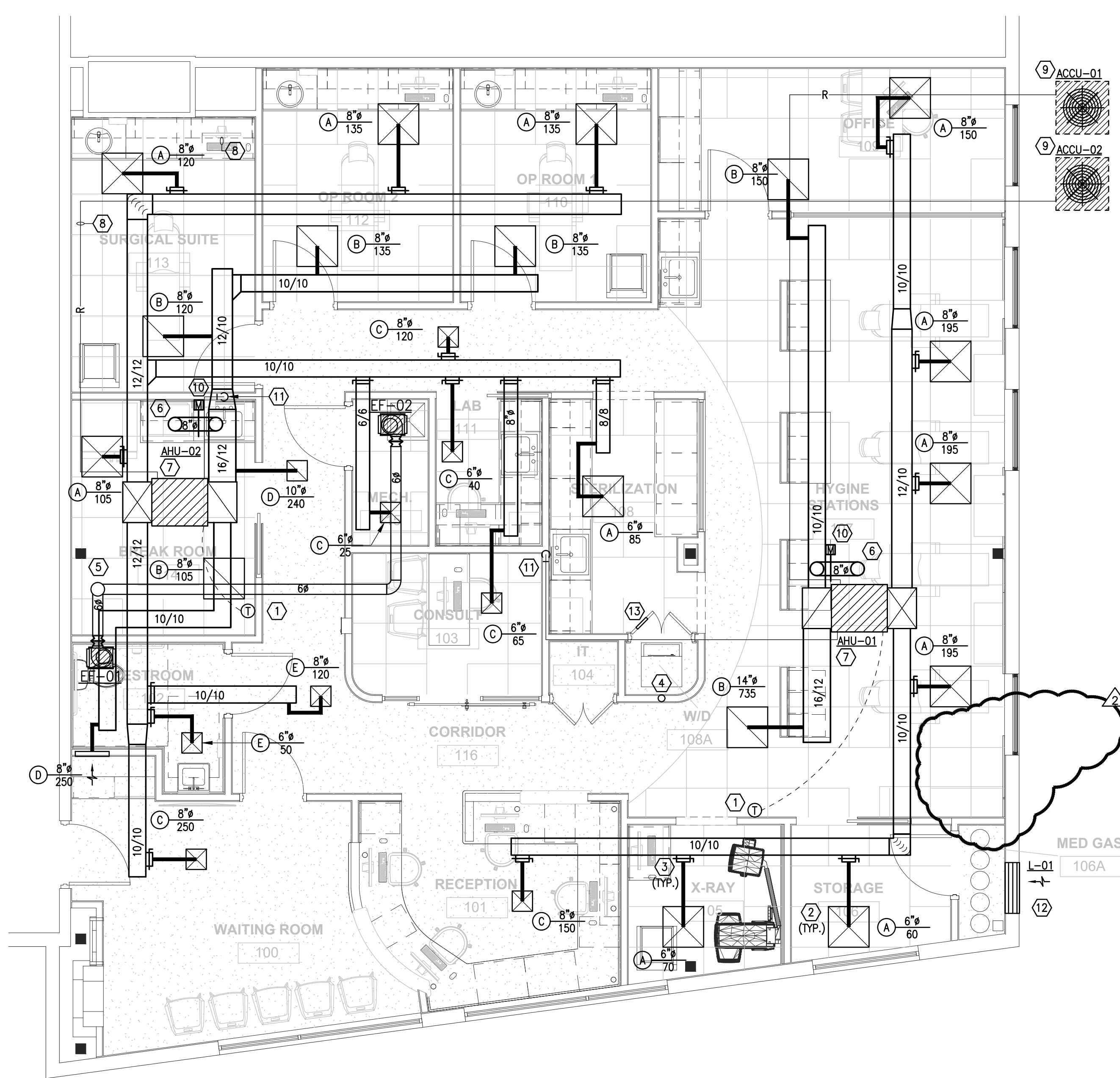
CONTRACTOR TO BE AWARE OF OBSTRUCTIONS AND BE PREPARED TO OFFSET DUCT AND PIPING BOTH VERTICALLY AND HORIZONTALLY TO ROUTE MECHANICAL SYSTEM. CONTRACTOR SHALL MAINTAIN FREE AREA OF DUCTWORK. CONTRACTOR SHALL SUBMIT RFI'S FOR ALL CHANGES PRIOR TO INSTALLATION. CONTRACTOR SHALL REFER TO DETAILS FOR DETAILED INSTALLATION INSTRUCTION.

RETURN FLEX DUCT SIZING SCHEDULE

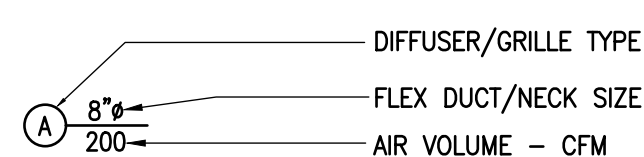
Table with 2 columns: SIZE, AIRFLOW (CFM). Rows include 4", 6", 8", 10", 12", 14", and 16" duct sizes.

SUPPLY DIFFUSER NECK SIZING SCHEDULE

Table with 2 columns: SIZE, AIRFLOW (CFM). Rows include 4", 6", 8", 10", 12", 14", and 16" diffuser neck sizes.



1 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



NOTE: PROVIDE R-6 FACTORY MANUFACTURED INSULATION ON BACK PAN FOR ALL CEILING MOUNTED AIR DEVICES.

MECHANICAL GENERAL NOTES:

- 1. CODES, RULES AND REGULATIONS - DESIGN OF SYSTEM
A) ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND CODES.
B) WHEN THE DRAWINGS CALL FOR MATERIALS OR CONSTRUCTION OF A BETTER QUALITY OR LARGER SIZES THAN REQUIRED BY THE ABOVE MENTIONED CODES AND RULES, WORK SHALL BE AS SPECIFIED OR SHOWN RATHER THAN AS REQUIRED BY CODE. ALL ITEMS OR FEATURES OF THE MECHANICAL SYSTEMS REQUIRED BY CODE SHALL BE INCLUDED, EVEN THOUGH NOT SPECIFIED HEREIN.
C) INSTALLATION OF THE SYSTEMS SHALL BE IN ACCORDANCE WITH THE ABOVE MENTIONED CODES AND REGULATIONS AND ALSO SHALL CONFORM TO GOOD, ACCEPTED MECHANICAL PRACTICES.
2. COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS (DIFFUSERS, REGISTERS AND GRILLES) WITH APPROPRIATE ARCHITECTURAL PLAN, AND VERIFY THEIR LOCATION WITH ARCHITECT ON THE JOB SITE BEFORE INSTALLATION. COLOR AS DIRECTED BY OWNER.
3. AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55 TO 85°F, AND HAVE THE ABILITY TO OPERATE THE HEATING AND COOLING IN SEQUENCE. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 5°F BETWEEN FULL HEATING AND FULL COOLING AND HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F, AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.
4. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED IN PLACE.
5. A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.
6. PROVIDE MIN. 10"-0" SEPARATION BETWEEN POINT OF EXHAUST AND ANY FRESH AIR INTAKE, OR A/V C UNIT OSA INTAKE.
7. ALL DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL ENLARGE DUCT SIZE IN ORDER TO ACCOMMODATE LIVING INSIDE OF DUCT IF REQUIRED.
8. THE MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND FEES.
9. THE PROJECT SHALL BE AIR BALANCED AND A COPY OF THE FINAL REPORT SHALL BE PRESENTED TO THE OWNER.
10. ALL EQUIPMENT AND APPLIANCES ARE LISTED PRODUCTS, AND WILL BE INSTALLED ACCORDING TO THEIR LISTING, AND ALL LISTING INFORMATION WILL BE AVAILABLE FOR INSPECTION.
11. DUCTWORK CONSTRUCTION DETAILS:
A) MATERIAL: INSULATED DUCTBOARD (R-8) OR FLEX DUCT.
12. REFER TO DETAILS OR GUIDELINES FOR MECHANICAL CONSTRUCTION REQUIREMENTS. INSTALL IN FULL ACCORDANCE WITH PROPER CODES AND GUIDELINES.
13. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECTURAL) REFLECTED CEILING PLAN.
14. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
15. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
16. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
a) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
b) OPERATING MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT.
c) EVERY 12 MONTHS THE EQUIPMENT SHALL BE SERVICED BY A LICENSED MECHANICAL CONTRACTOR.
18. (PIPE INSULATION) PIPING SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE 6.8.3. EXCEPTIONS:
a) FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH 6.4.1.
b) PIPING THAT CONVEYS FLUIDS HAVING A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60 F AND 105 F, INCLUSIVE.
c) PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF NONRENEWABLE ENERGY WHERE HEAT GAIN OR HEAT LOSS WILL NOT INCREASE ENERGY USAGE.
d) HOT WATER PIPING BETWEEN THE SHUTOFF VALVE AND THE COIL, NOT EXCEEDING 4 FT IN LENGTH, WHEN LOCATED IN CONDITIONED SPACES.
e) PIPE UNIONS IN HEATING SYSTEMS (STEAM, STEAM CONDENSATE, AND HOT WATER).
19. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH. (2021 UMC - R03.4.1.)
20. OPENINGS BETWEEN THE 1-HOUR FIRE RATED ROOMS OR ENCLOSURES AND INTERIOR SPACES SHALL BE SELF-CLOSING SMOKE AND DRAFT CONTROL ASSEMBLIES HAVING A FIRE PROTECTION RATING OF NOT LESS THAN 1 HOUR.

MECHANICAL KEYED NOTES:

- 1 PROVIDE WALL MOUNTED WIFI AND BACKUP CAPABLE SEVEN DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER; REF TO SCHEDULE NOTES. CONFIRM FINAL LOCATION AND HEIGHT WITH OWNER AND ARCHITECT. THERMOSTAT SHALL BE PROVIDED IN CLEAR, LOCKABLE ENCLOSURE.
2 RE: 5/M301 FOR FLEX DUCT CONNECTION AT A SUPPLY AIR DIFFUSER DETAIL. (TYPICAL)
3 RE: 1/M301 FOR FLEXIBLE DUCT TAP DETAIL. (TYPICAL)
4 5" RIGID DRYER VENT DUCT WITH SMOOTH INTERIOR SURFACE FOR FULL LENGTH. TERMINATE AT ROOF WITH RAIN CAP W/ BACKDRAFT DAMPER. DRYER VENT MUST COMPLY WITH 2021 UMC.
5 8" EXHAUST AIR DUCT UP THROUGH ROOF TO EXHAUST HOOD/CAP ON ROOF.
6 OUTSIDE AIR DUCT UP TO ROOF. TERMINATE WITH ROOF RAIN VENT CAP. CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL LOCATION.
7 PROVIDE AIR HANDLING UNIT WITH ALL PROPER CLEARANCES FOR MAINTENANCE AND OPERATION. REFER TO MANUFACTURER FOR RECOMMENDATIONS. PROVIDE AIR HANDLING UNIT WITH 3" DEEP GALVANIZED AUXILIARY DRAIN PAN. AUXILIARY DRAIN PAN SHALL BE 3" LARGER THAN AIR HANDLING UNIT ON ALL SIDES.
8 SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
9 PROVIDE CONDENSING UNIT WITH ALL PROPER CLEARANCES FOR MAINTENANCE AND OPERATION. REFER TO MANUFACTURER FOR RECOMMENDATIONS. PROVIDE CONDENSING UNIT WITH 4" THICK CONCRETE MAINTENANCE PAD. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ANY WORK BEING DONE.
10 PROVIDE MOTORIZED VOLUME DAMPER (MVD) IN OUTSIDE AIR DUCT. MVD TO INTERLOCK WITH ASSOCIATED AIR HANDLER SUCH THAT MVD IS 100% OPEN WHEN FAN IS ENERGIZED AND MVD IS 100% CLOSED WHEN FAN IS DE-ENERGIZED. ROUTE DUCT TO ROOF INTAKE HOOD RUSKIN PR OR APPROVED EQUIVALENT.
11 ROUTE CONDENSATE DRAIN PIPE TO SINK TAIL PIECE. PROVIDE AND INSTALL PIPE SUPPORT ON 4"-0" CENTERS AND IN EVERY CHANGE IN DIRECTION. SLOPE PIPE TO PROVIDE PROPER DRAINAGE. INSULATE CONDENSATE PIPE AS SPECIFIED. REFER TO SPECIFICATIONS. PROVIDE A CLEAN OUT IN EVERY CHANGE OF DIRECTION.
12 INSTALL TWO 30" x 12" RUSKIN #ELF63750XD WALL INTAKE LOUVER OR APPROVED EQUIVALENT MOUNTED 6" BELOW THE FINISHED CEILING TO THE TOP OF LOUVER AS WELL AS 6" ABOVE FINISHED FLOOR HEIGHT. CONTROL DAMPERS SHALL BE INTERLOCKED WITH ASSOCIATED EXHAUST FAN.
13 INSTALL 10" x 10" DOOR INTAKE LOUVER FOR DRYER MAKE UP AIR. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

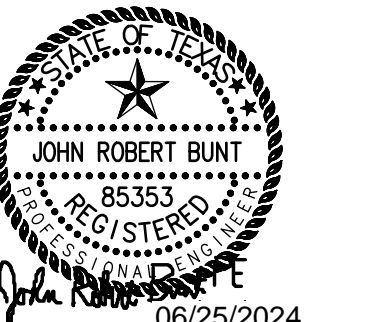
**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

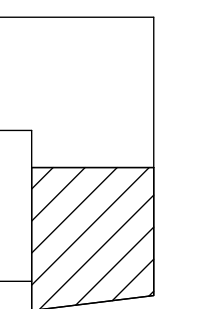
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**



**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DR., AUSTIN, TX 78741

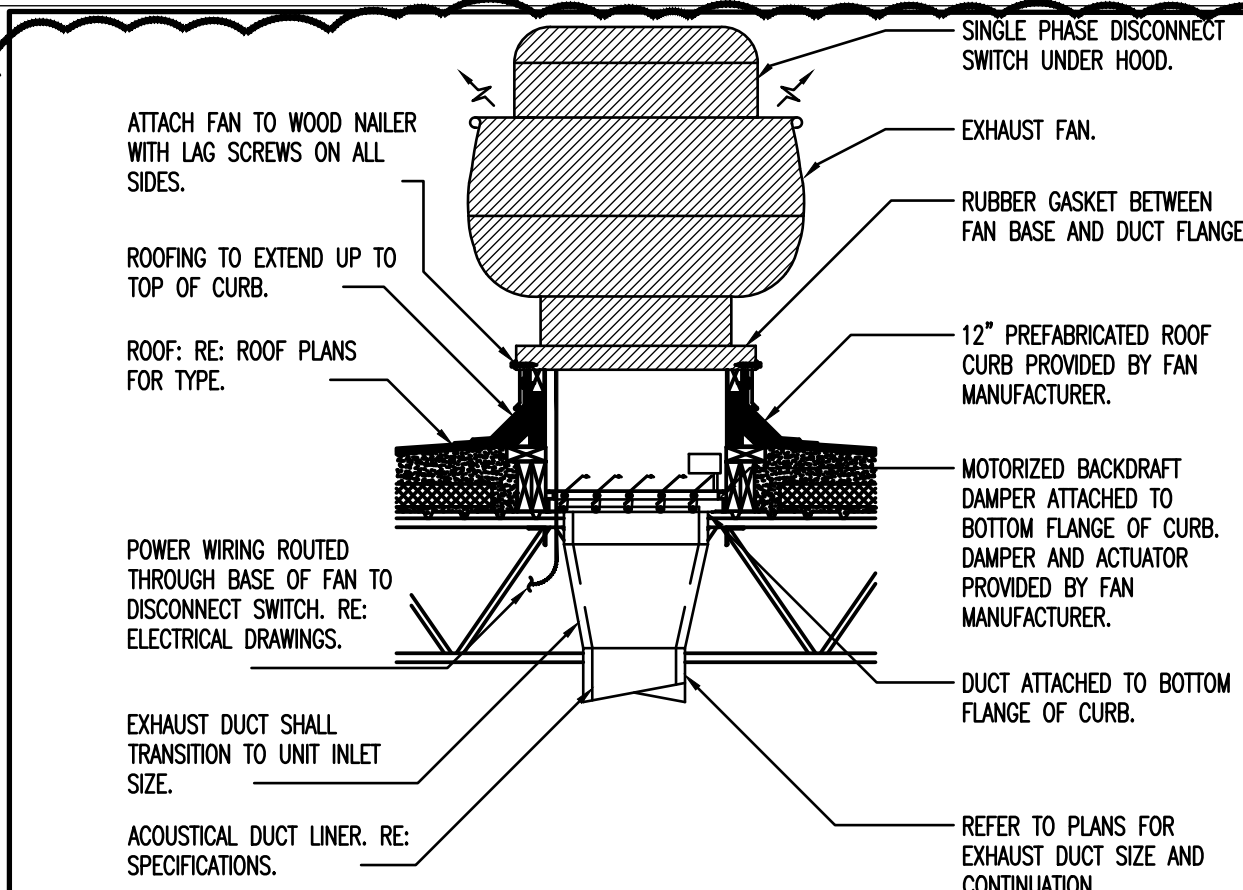
**PROJECT NUMBER**

24017

**DATE**

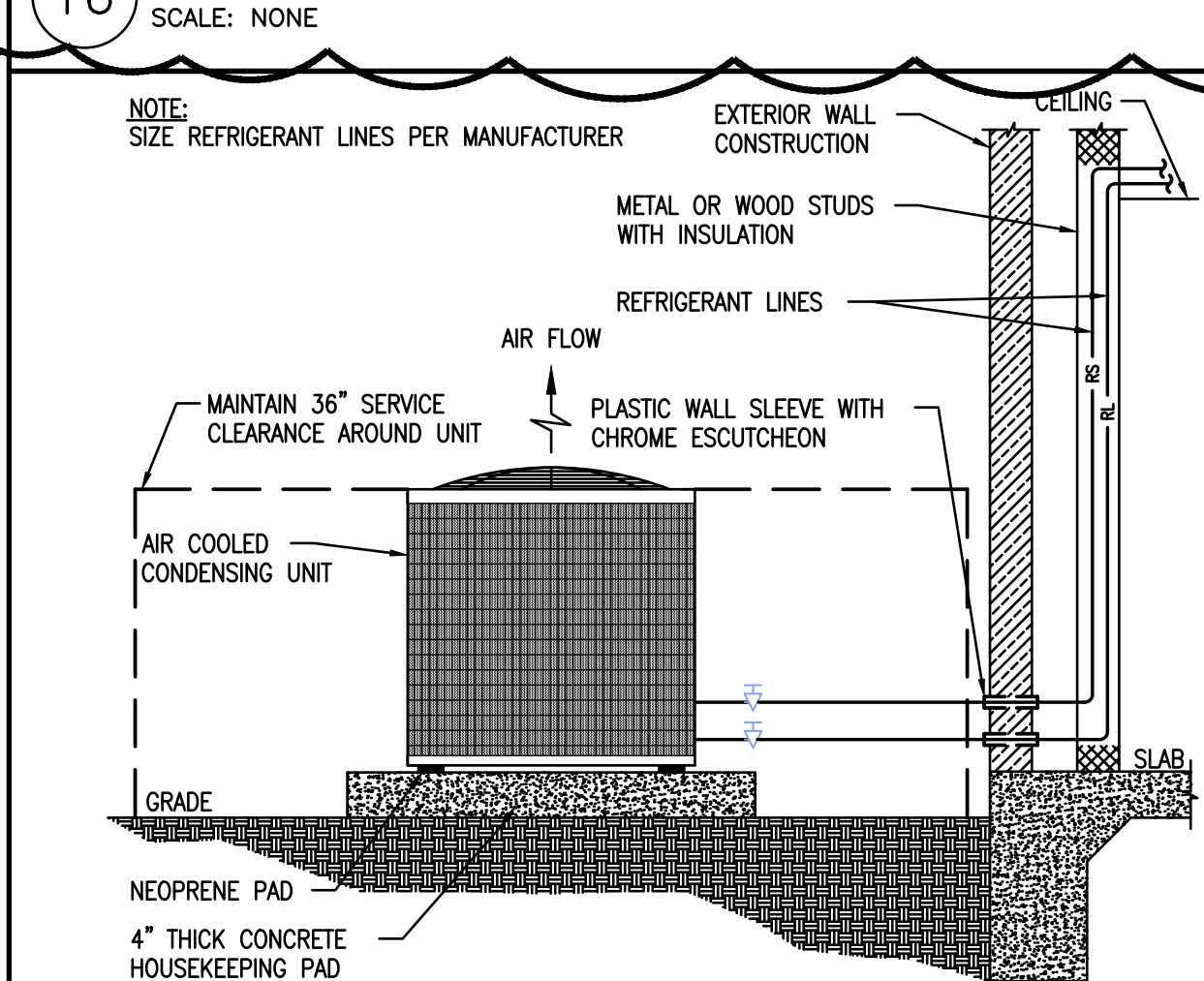
06/25/24

**MECHANICAL DETAILS**

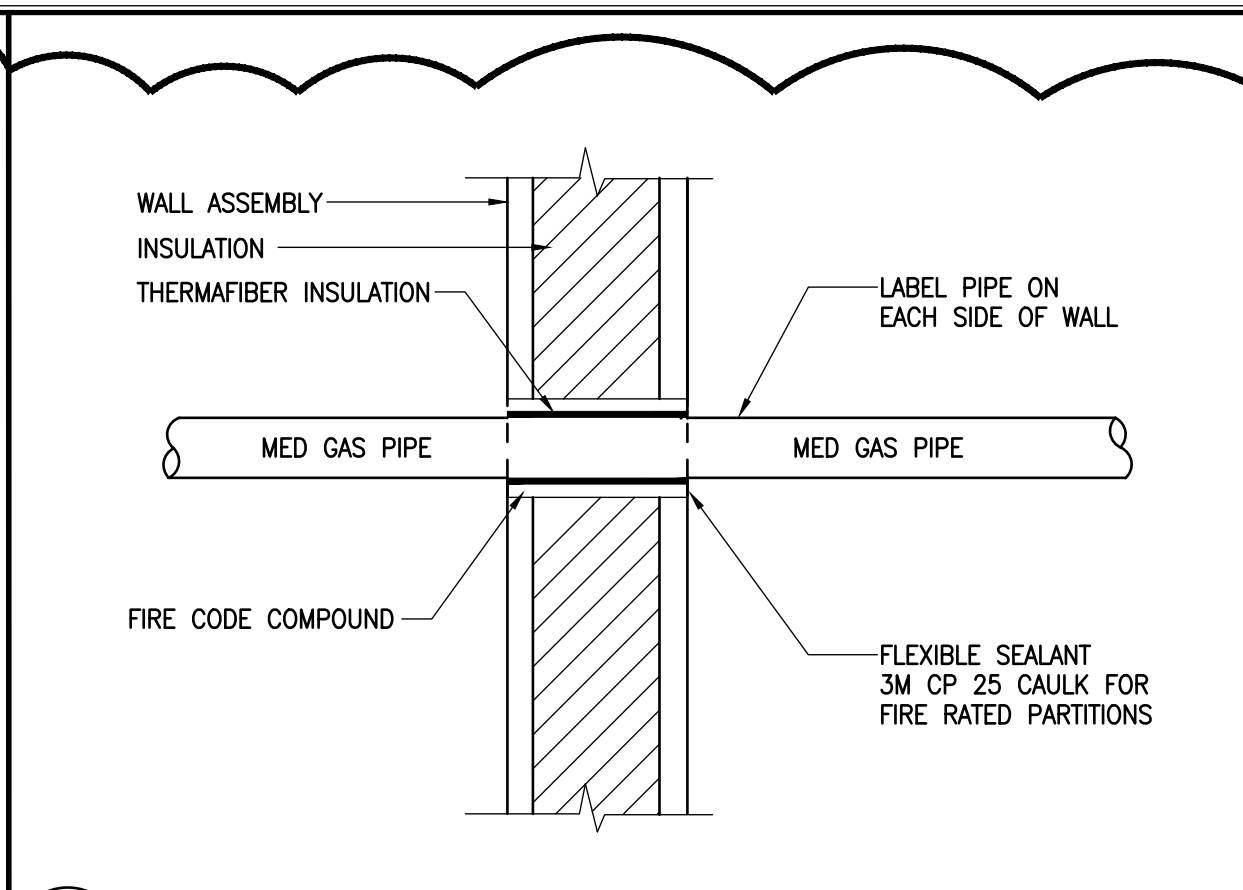


- NOTES:**
- FOR THREE PHASE FANS, REFER TO THREE PHASE DISCONNECT SWITCH DETAIL.
  - PROVIDE DUCT LINER IN THE FIRST 10 FEET OF DUCT FROM FAN.
  - ATTACH ROOF MOUNTED EQUIPMENT TO ROOF CURB AS REQUIRED TO RESIST UPLIFT DUE TO WINDS UP TO 155 M.P.H. SPEED.

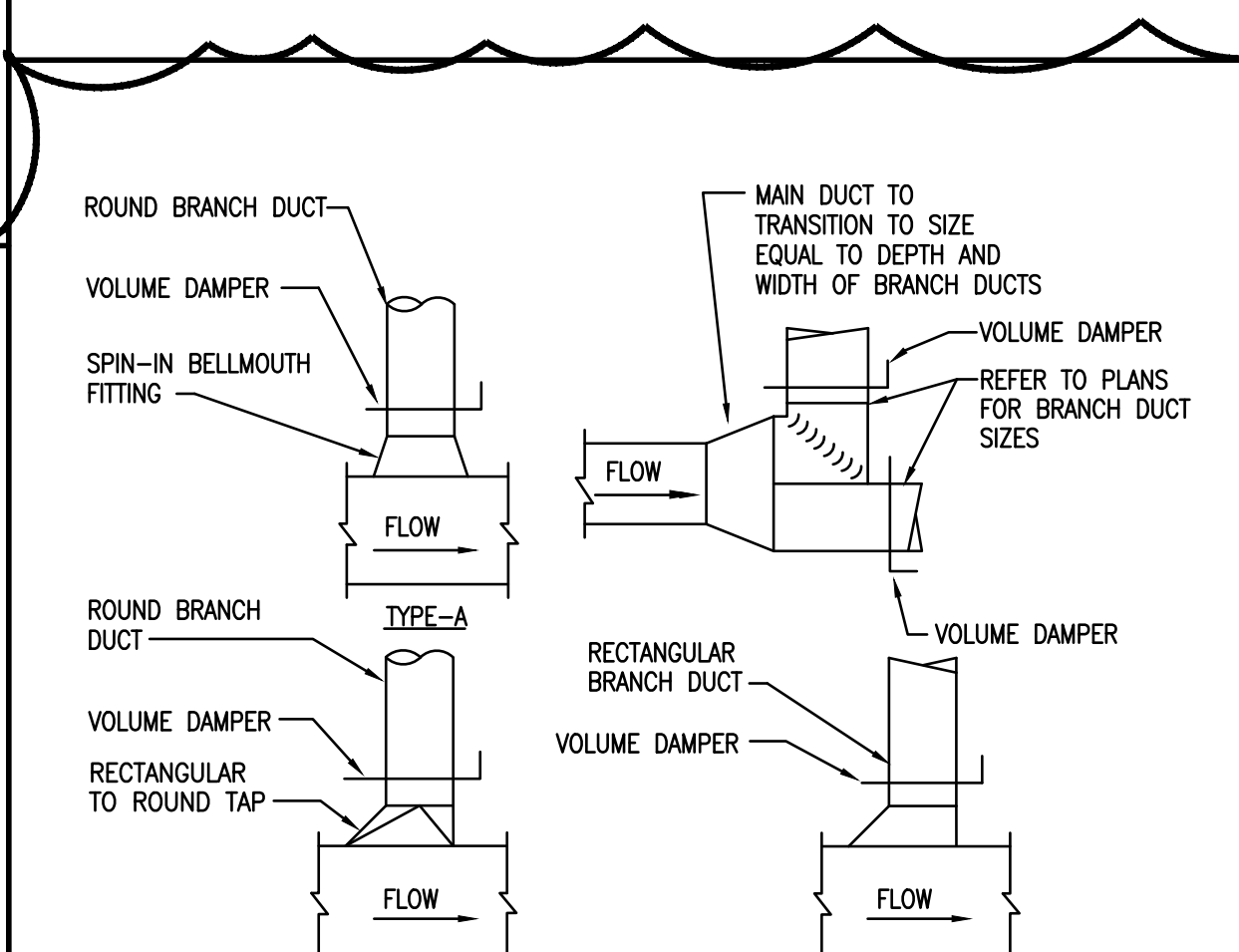
**16 UPBLAST ROOF MOUNTED EXHAUST FAN DETAIL**  
SCALE: NONE



**13 AIR COOLED CONDENSING UNIT PIPING DETAIL**  
SCALE: NONE

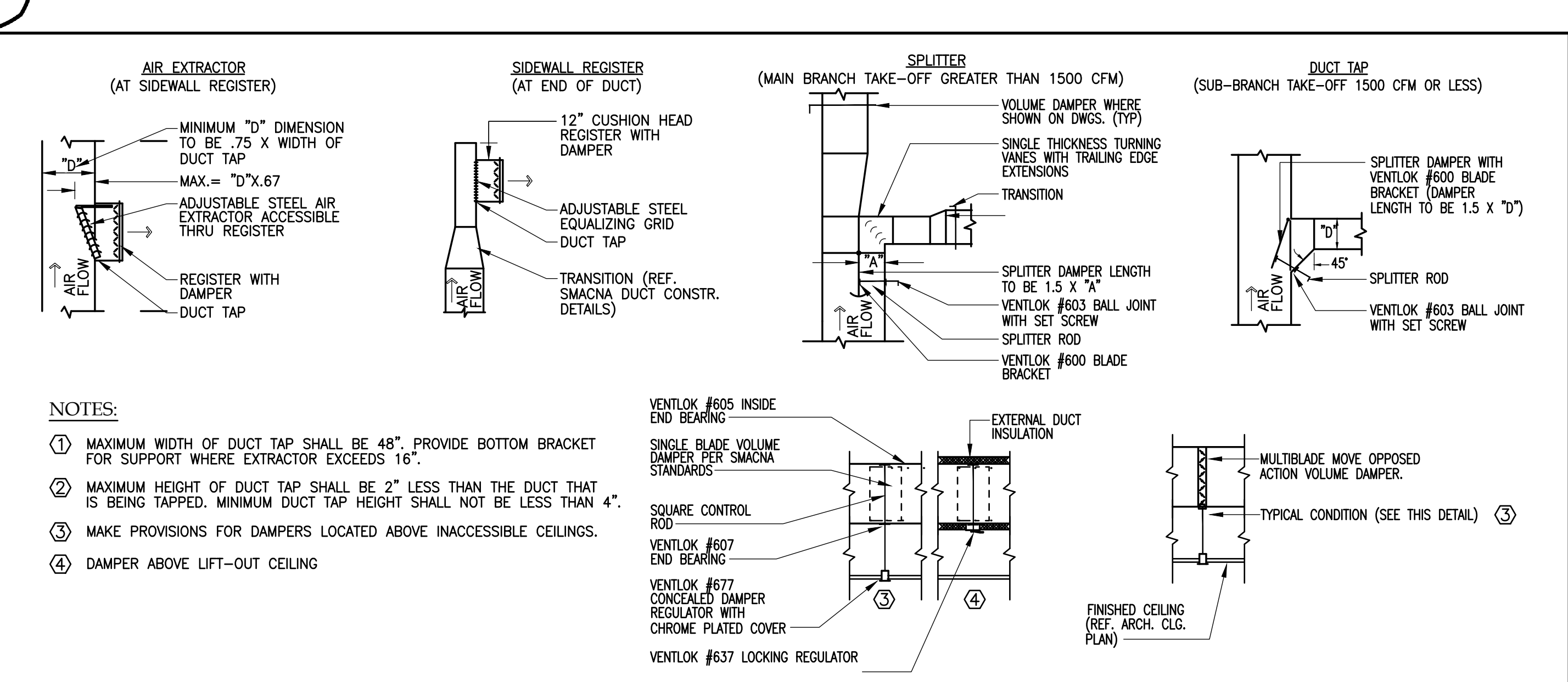


**17 INTERIOR WALL PENETRATION**  
SCALE: NONE



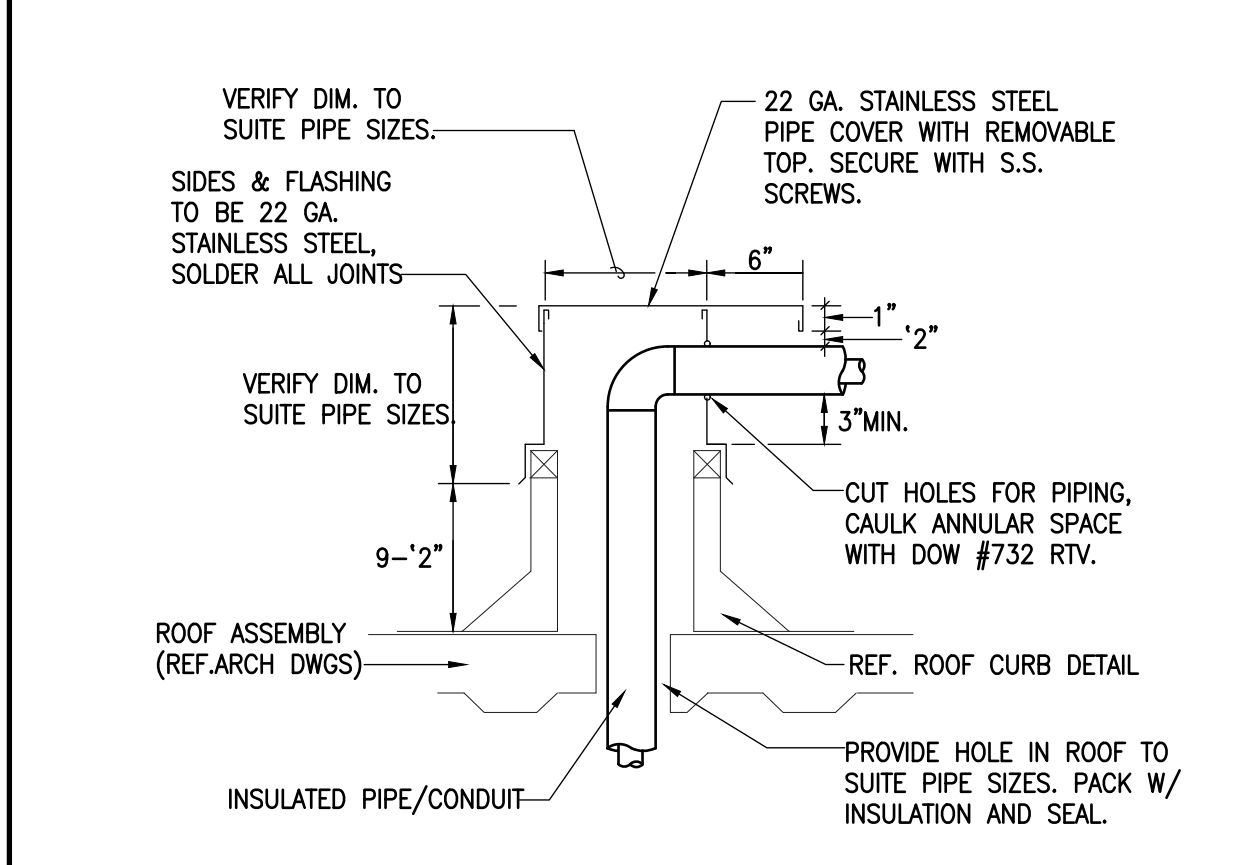
- NOTES:**
- USE TYPE "A" CONNECTION ONLY FOR BRANCHES TO SINGLE DIFFUSERS, TERMINAL BOXES OR GRILLES FROM THE MAIN.
  - USE TYPE "B" OR "C" BRANCH WHERE BRANCH FLOW IS 20% OR LESS OF MAIN.
  - NO DAMPERS ARE REQ'D ON VAV SYSTEMS BETWEEN AIR HANDLING UNIT AND VAV TERMINAL BOXES.
  - USE TEE SPLIT WHERE BRANCH FLOW IS MORE THAN 20% OF MAIN.
  - FOR TYPE "A" CONNECTION ONLY FOR BRANCHES TO DIFFUSERS, THE ROUND DUCT RUN-OUT SIZE SHALL BE THE SAME SIZE AS THE NECK OF DIFFUSER, UNLESS OTHERWISE INDICATED.
  - PROVIDE VOLUME DAMPERS ON ALL SUPPLY, OUTSIDE AIR, RETURN AND EXHAUST DUCT SYSTEMS AS SHOWN.

**14 BRANCH DUCT DETAILS**  
SCALE: NONE

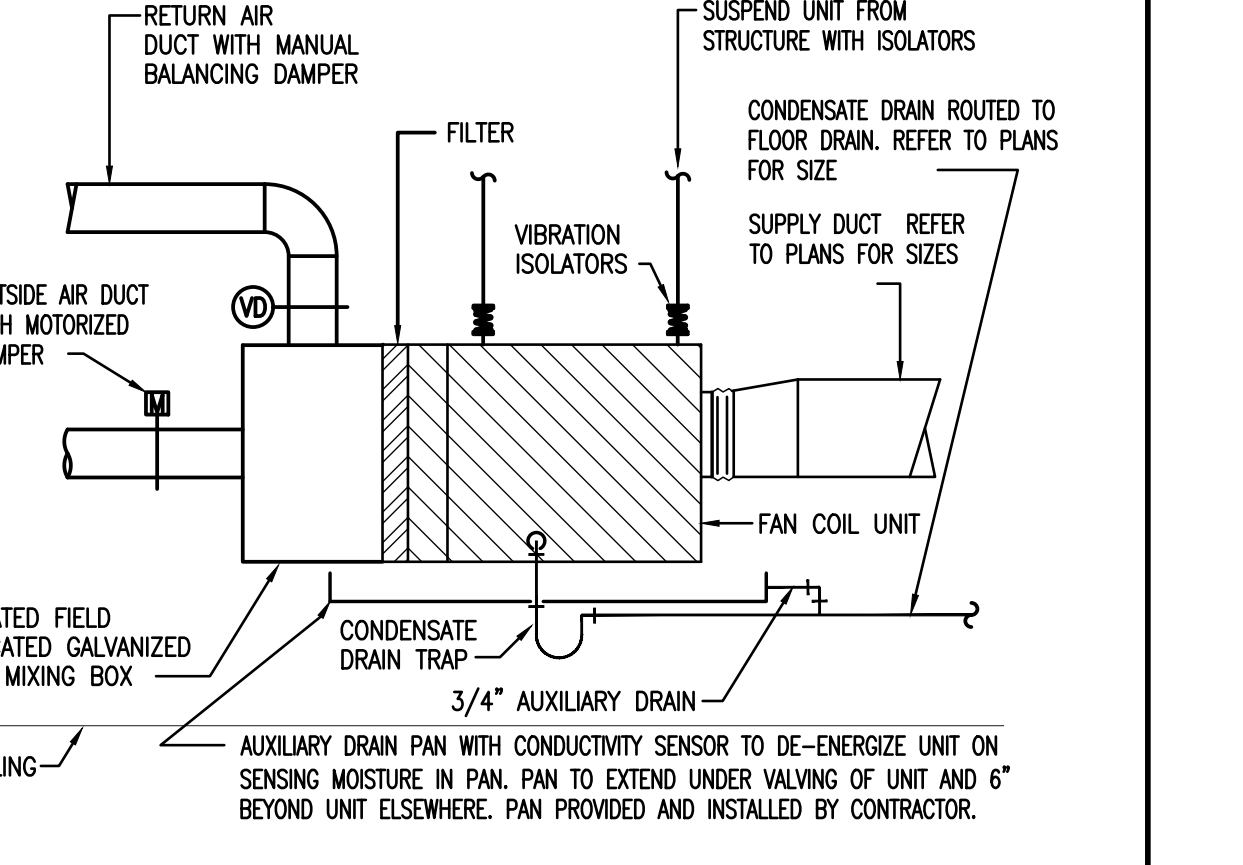


- NOTES:**
- MAXIMUM WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
  - MAXIMUM HEIGHT OF DUCT TAP SHALL BE 2" LESS THAN THE DUCT THAT IS BEING TAPPED. MINIMUM DUCT TAP HEIGHT SHALL NOT BE LESS THAN 4".
  - MAKE PROVISIONS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.
  - DAMPER ABOVE LIFT-OUT CEILING

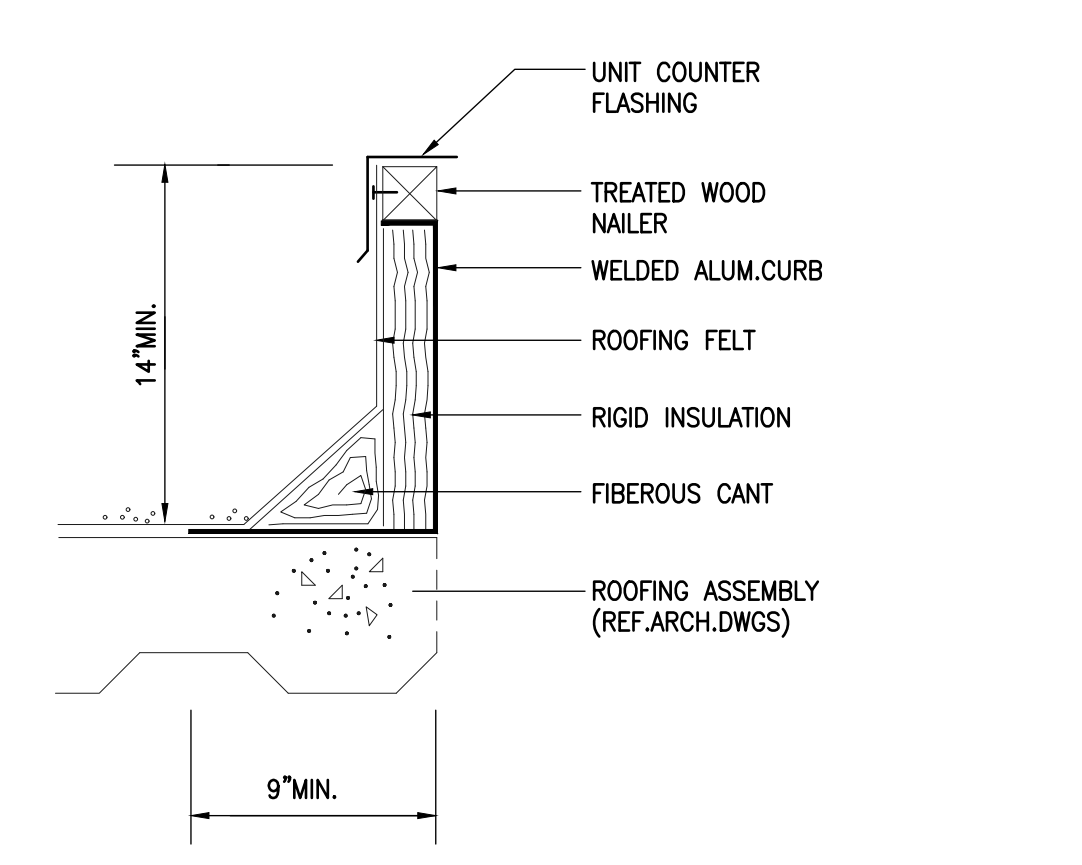
**15 DUCT CONSTRUCTION DETAILS**  
SCALE: NONE



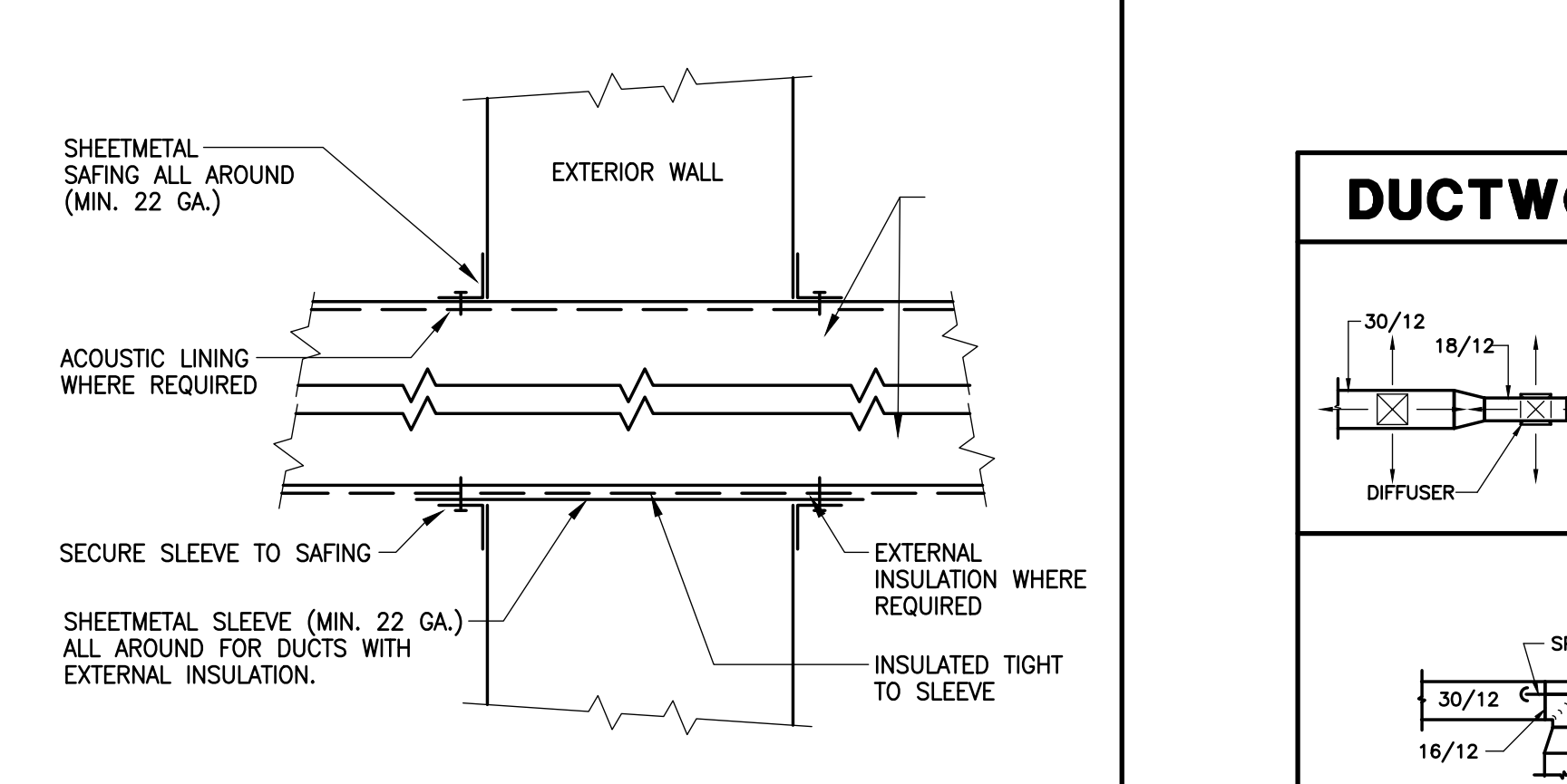
**9 INSULATED PIPE THRU ROOF**  
SCALE: NONE



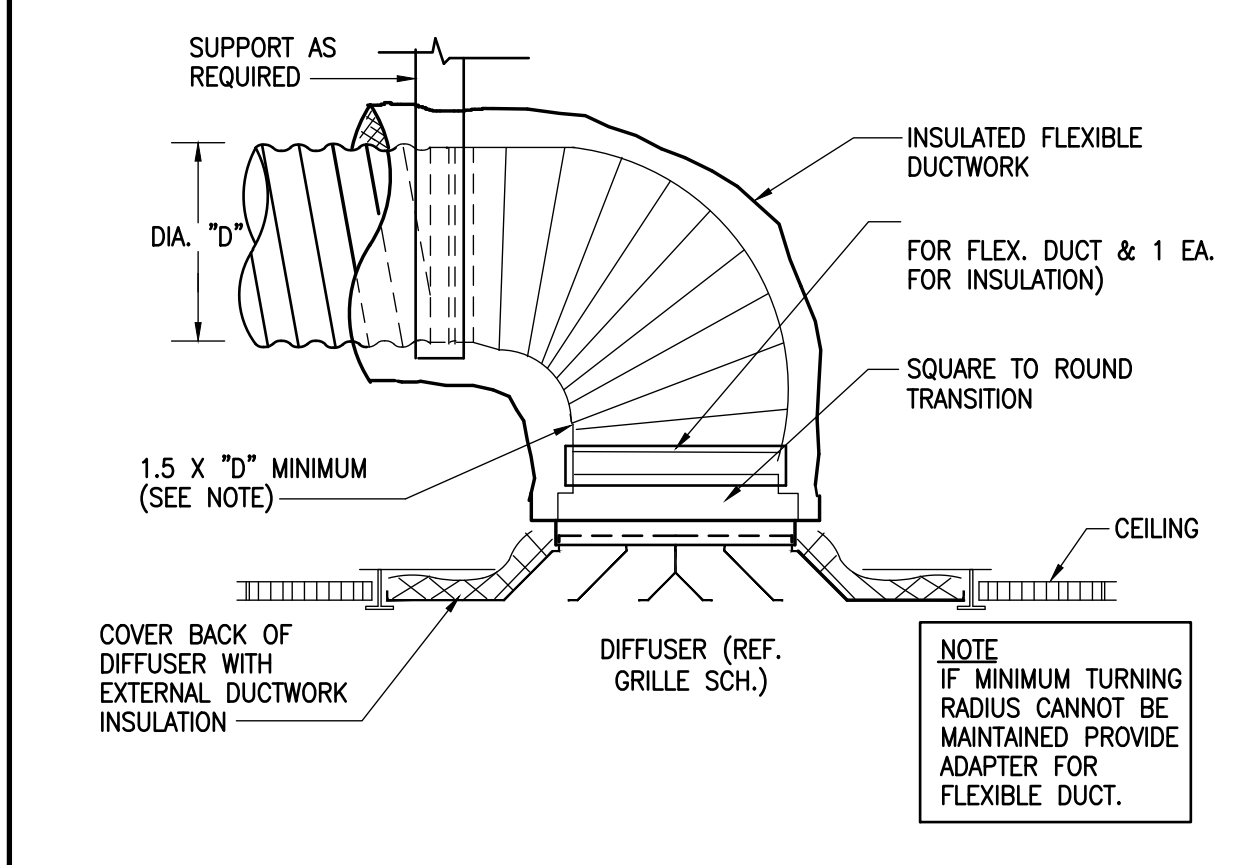
**10 FAN COIL UNIT DETAIL**  
SCALE: NONE



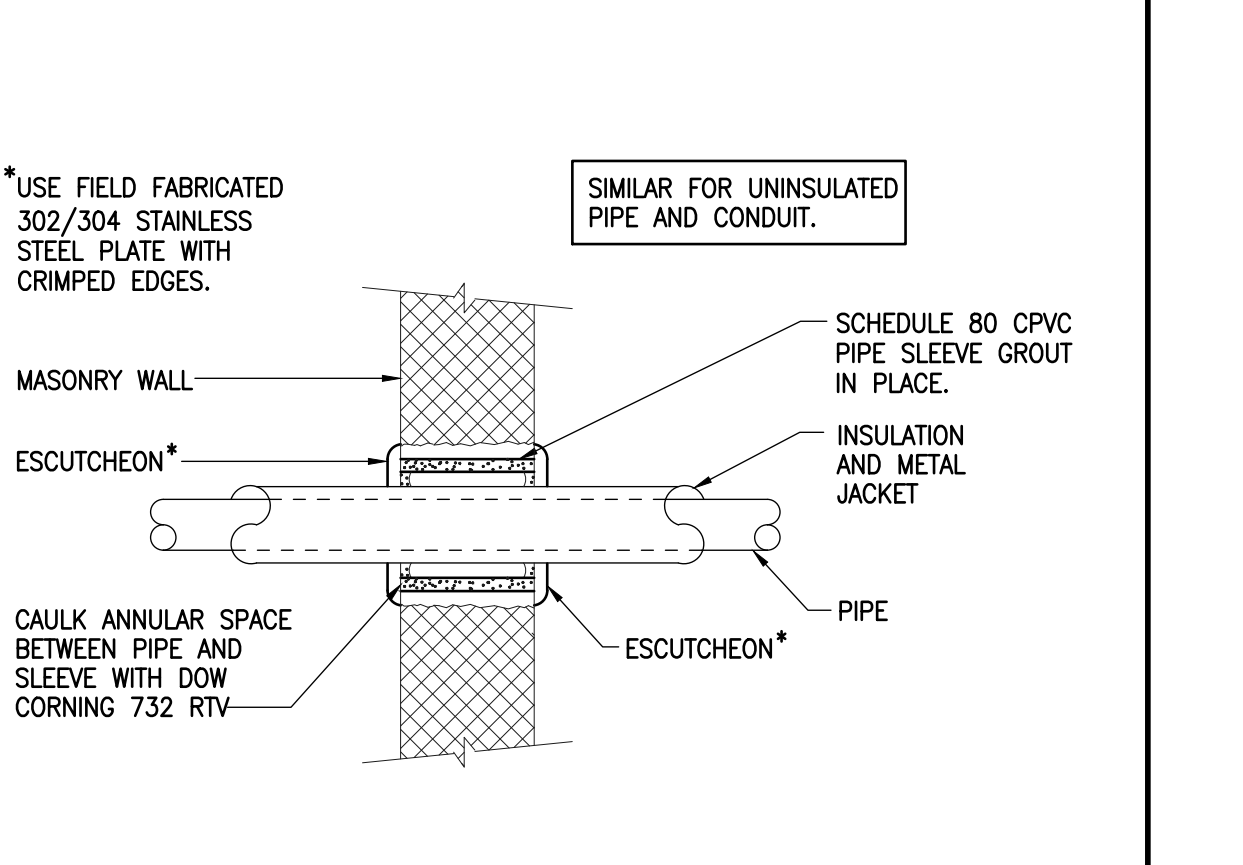
**11 ROOF CURB**  
SCALE: NONE



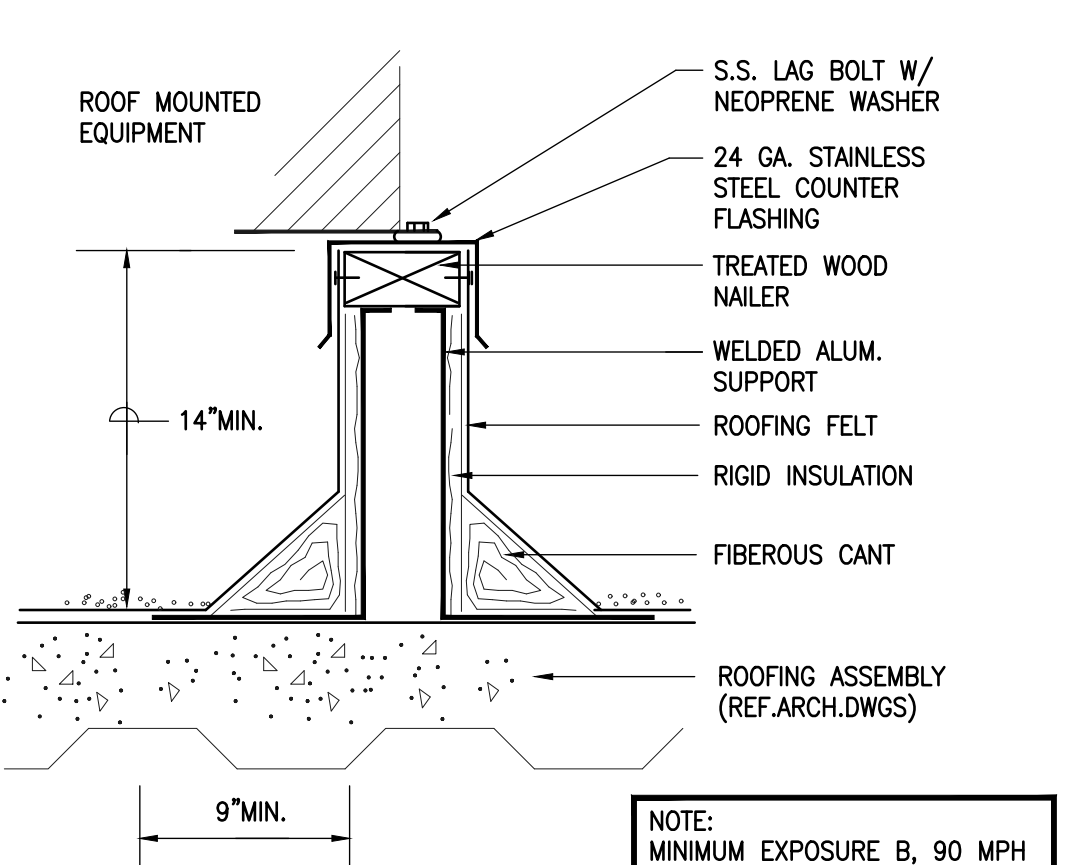
**12 DUCT PENETRATION THROUGH WALL**  
SCALE: NONE



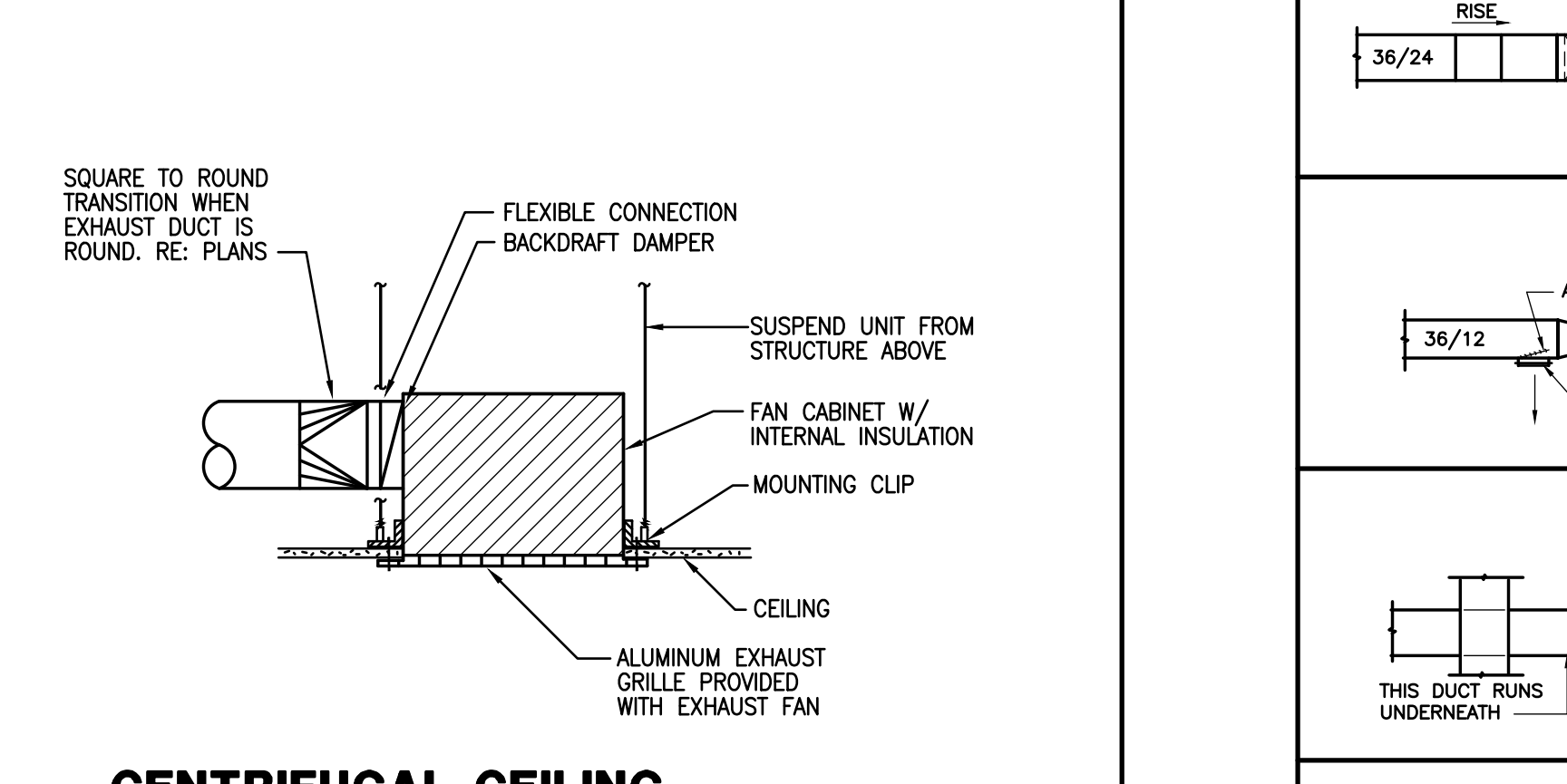
**5 SUPPLY AIR DIFFUSER DETAIL**  
SCALE: NONE



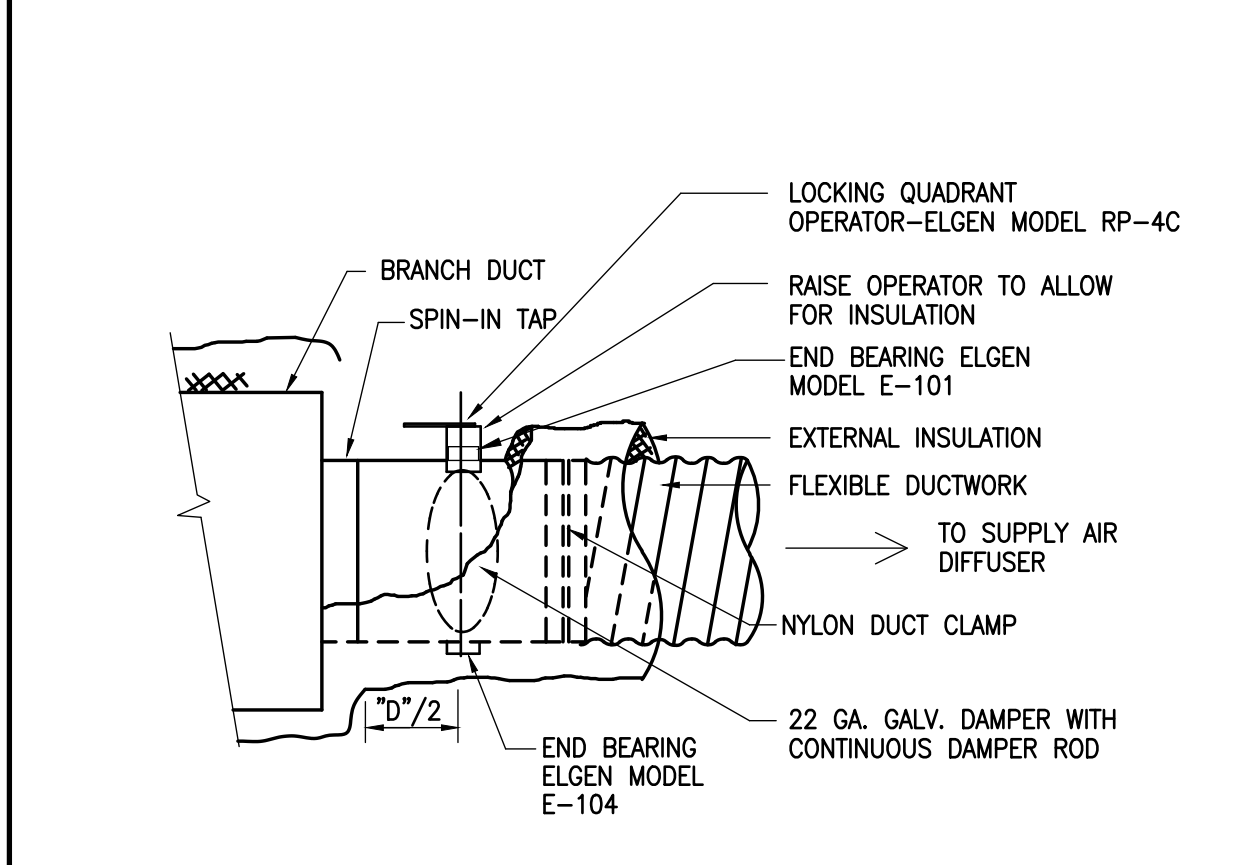
**6 PIPE THRU EXTERIOR WALL DETAIL**  
SCALE: NONE



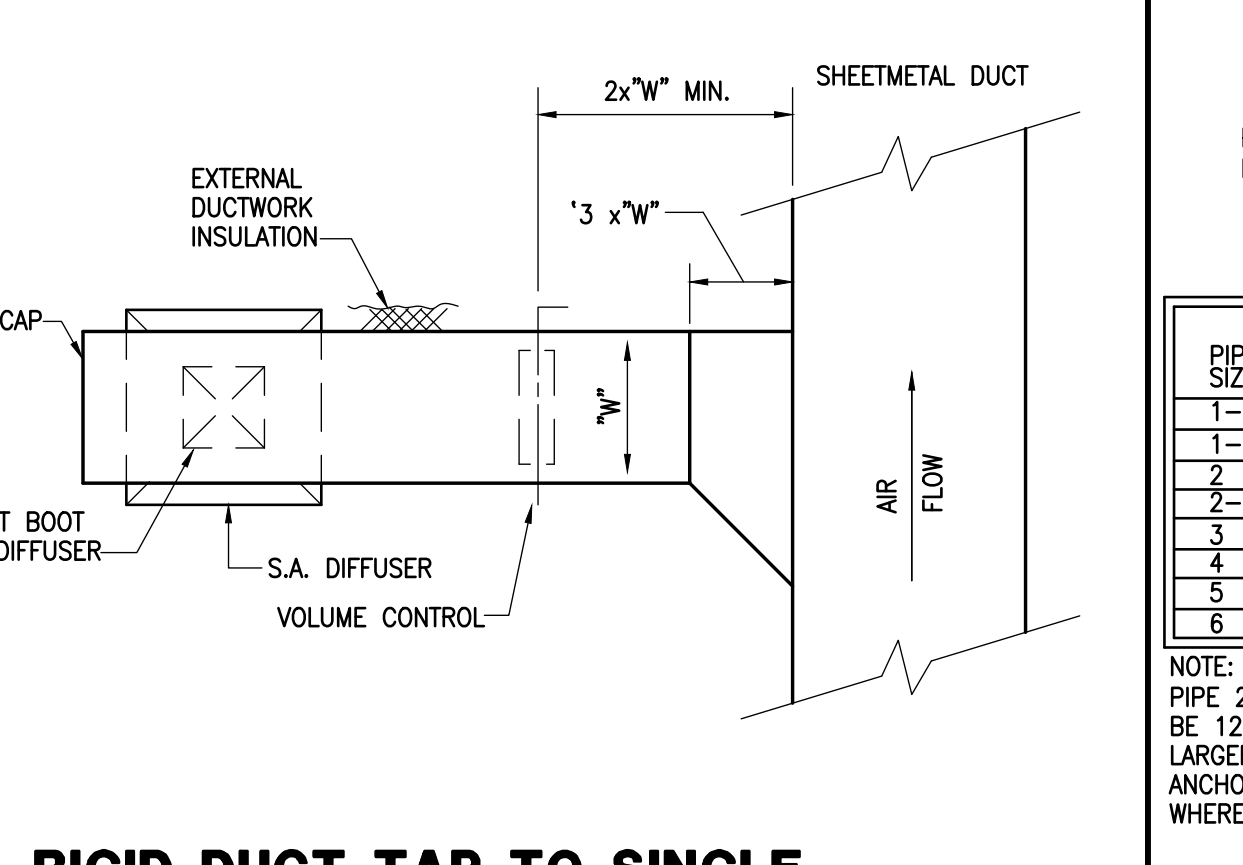
**7 EQUIPMENT SUPPORT**  
SCALE: NONE



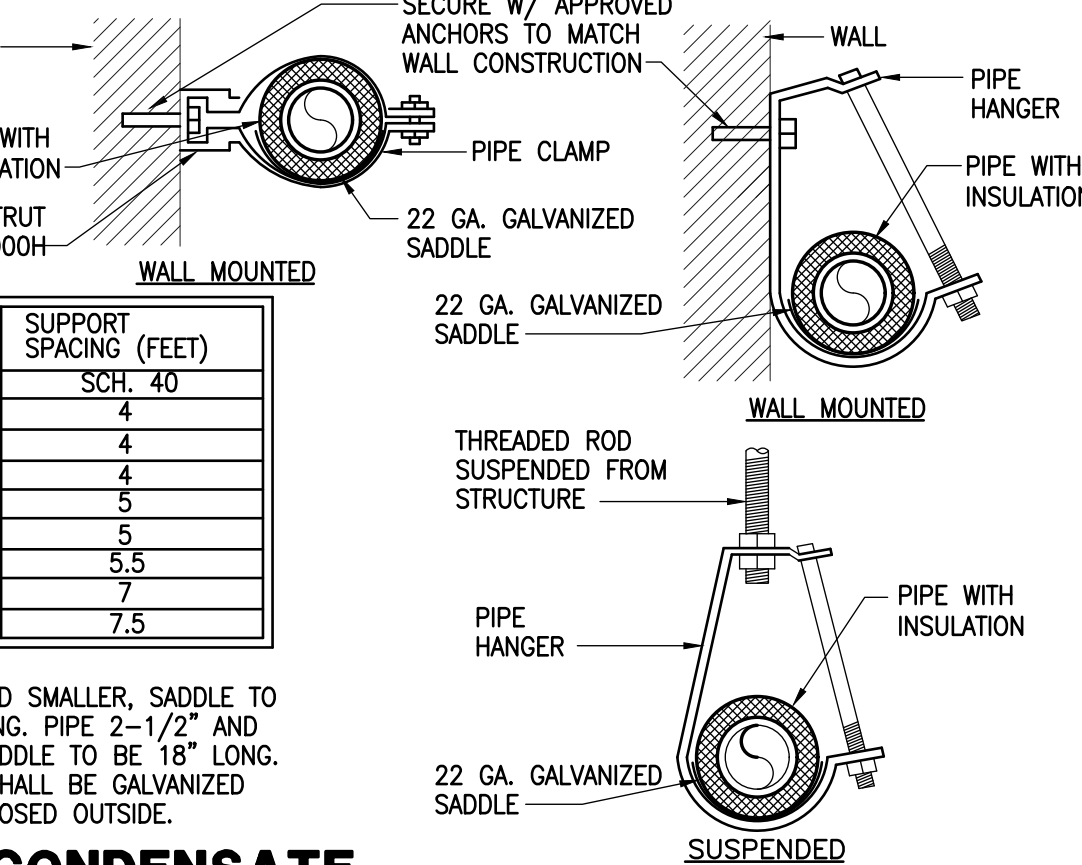
**8 CENTRIFUGAL CEILING EXHAUST FAN DETAIL**  
SCALE: NONE



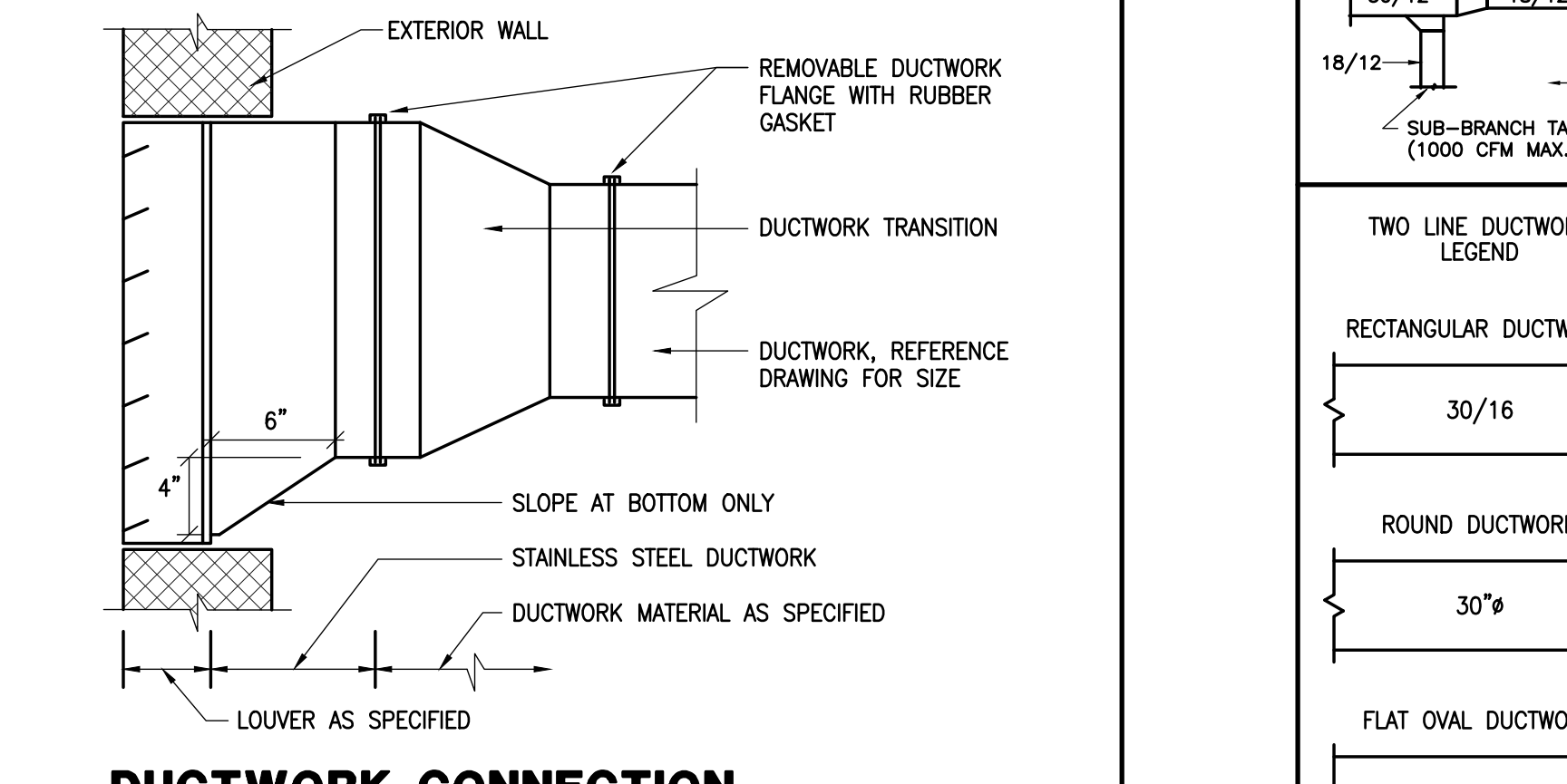
**1 FLEXIBLE DUCT TAP**  
SCALE: NONE



**2 RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER**  
SCALE: NONE

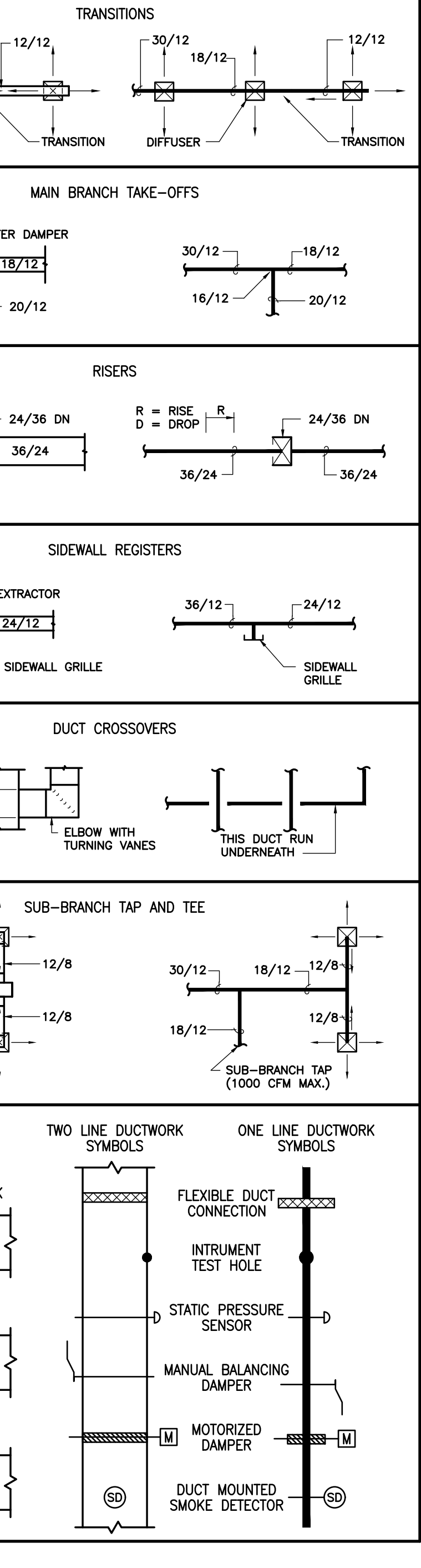


**3 CONDENSATE DRAIN SUPPORT & INSULATION**  
SCALE: NONE



**4 DUCTWORK CONNECTION AT LOUVER DETAIL**  
SCALE: NONE

**DUCTWORK SYMBOLS LEGEND**



**MECHANICAL SPECIFICATIONS**

**GENERAL MECHANICAL REQUIREMENTS**

- 1.1 SCOPE
  - A. THE WORK OF THIS DIVISION CONSISTS OF PROVIDING LABOR, MATERIALS, PRODUCTS, AND IN PERFORMING ALL OPERATIONS REQUIRED FOR THE COMPLETE OPERATING INSTALLATION OF ALL MECHANICAL PLUMBING SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS AS WELL AS APPLICABLE DRAWINGS, TERMS, CONDITIONS OF THE CONTRACT AND ALL APPLICABLE CODES AND ORDINANCES GOVERNING THE INSTALLATION OF THE VARIOUS MECHANICAL AND PLUMBING SYSTEMS. ALL WORK SHALL BE FULLY COORDINATED WITH THE WORK OF OTHER CONTRACTS.
  - B. EACH CONTRACTOR SHALL STUDY THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF WORK PROVIDED UNDER THIS CONTRACT AS WELL AS ASCERTAIN THE DIFFICULTY TO BE ENCOUNTERED IN PERFORMING THE WORK ON THE DRAWINGS AND OUTLINED HEREINFTER AND IN MAKING CONNECTIONS TO EXISTING UTILITIES, INSTALLING NEW EQUIPMENT AND SYSTEMS AND COORDINATING THE WORK WITH THE OTHER TRADES.
  - C. EXAMINATION OF THE SITE: THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE AND SENSITIVELY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL MEASUREMENTS AFFECTING HIS WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR DEFICIENCIES DUE TO HIS NEGLIGENCE TO EXAMINE OR FAILURE TO DISCOVER CONDITIONS WHICH AFFECT HIS WORK. NO EXTRA COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL CONDITIONS AND THOSE INDICATED ON THE DRAWINGS.
- 1.2 REGULATORY REQUIREMENTS
  - A. CODES AND ORDINANCES PERMIT AND FEES: PERFORM ALL WORK IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES, THE CURRENT EDITION OF NFPA, THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, AND ALL CURRENT SUPPLEMENTS THERETO, AND ANY OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK. PROCURE AND PAY FOR ALL PERMITS, LICENSES, FEES AND CHARGES, AND OBEY ALL NOTICES NECESSARY.
  - B. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND REQUIREMENTS OF ANY CODE OR AUTHORITIES HAVING JURISDICTION, THE MOST STRINGENT REQUIREMENTS OF THE REGULATORY SHALL BE OBSERVED.
  - C. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, AND LOCAL ORDINANCES AND INDUSTRY STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES, AS APPROVED BY THE ARCHITECT.
  - D. INTERS: THE DRAWINGS SHOW GENERAL APPROXIMATIONS AND THE DETAILED WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS AS CLOSELY AS PRACTICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR DEFICIENCIES DUE TO HIS NEGLIGENCE TO EXAMINE OR FAILURE TO DISCOVER CONDITIONS WHICH AFFECT HIS WORK. NO EXTRA COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL CONDITIONS AND THOSE INDICATED ON THE DRAWINGS.
- 1.3 COORDINATION OF WORK
  - A. EACH CONTRACTOR SHALL COORDINATE HIS DRAWINGS AND SPECIFICATIONS WITH THOSE OF OTHER TRADES. ALL WORK SHALL BE INSTALLED IN COOPERATION WITH ALL OTHER TRADES INSTALLING INTERFERED WORK. BEFORE INSTALLATION, ALL TRADES SHALL MAKE PROPER PROVISIONS TO AVOID INTERFERENCES.
  - B. EACH CONTRACTOR SHALL COORDINATE THE LOCATION OF HIS SYSTEMS TO THAT ALL OUTSIDE AIR INTAKES, PLUMBING VENTS, AND EXHAUST FANS ARE LOCATED IN SUCH A MANNER AS TO PREVENT CROSS-CONTAMINATION. SUCH A DISTANCE SHALL BE NOT LESS THAN 10'-0".
  - C. LOCATIONS OF CONDUIT, DUCTS, PIPING, SPRINKLER HEADS, AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE THE WORK WITH INTERFERENCES ANTICIPATED AND DISCOUNTED. EXACT ROUTING AND LOCATION OF SYSTEMS SHALL BE DETERMINED PRIOR TO FABRICATION OR INSTALLATION.
  - D. OFFSETS AND CHANGES OF DIRECTION IN ALL CONDUIT, DUCTS AND PIPING SYSTEMS SHALL BE MADE AS REQUIRED TO MAINTAIN PROPER HEADROOM AND PITCH OF SLOPING LINES.
- 1.4 REGULATORY REQUIREMENTS
  - A. COMPLY WITH ALL CURRENT LOCAL, STATE, AND NATIONAL CODES, INCLUDING THE AMERICAN NATIONAL STANDARDS INSTITUTE'S (NIST) MOST CURRENT EDITION) AND SECURE AND PAY FOR ALL APPLICABLE CODES, FEES, PERMITS AND LICENSES. NO ADDITIONAL COSTS SHALL BE PAID BY THE OWNER FOR THESE ITEMS.
  - B. PERFORM ALL WORK WITH HIGHEST REGARD TO SAFETY, EXERCISE BY HAND AND WITH CAUTION TO LOCATE ALL UTILITIES IN THE BOUNDS OF THE AREA TO BE EXCAVATED PRIOR TO MACHINE EXCAVATING. PROCEED WITH SAFETY AND CAUTION TO AVOID DAMAGE TO EXISTING UTILITIES.
  - C. PRIOR TO BID, VERIFY AND COORDINATE ALL REQUIRED CONNECTIONS AND/OR RELOCATIONS OF UTILITIES WITH UTILITY COMPANIES. PERFORM SUCH WORK IN ACCORDANCE WITH UTILITY COMPANY REGULATIONS. PAY ALL APPLICABLE FEES AND COSTS INCLUDING THOSE FOR ANY EXTENSIONS, RELOCATIONS AND/OR CONNECTIONS.
  - D. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ABOVE GROUND AND MARKED UTILITIES.
- 1.5 SUBMITTALS
  - A. SUBMITTALS SHALL BE COMPLETE FOR SYSTEMS INVOLVED. PROVIDE SUBMITTALS FOR ALL HVAC EQUIPMENT.
  - B. INSTRUMENTATION: THE CONTRACTOR SHALL PROVIDE PRESENT APPROVED INSTRUMENTATION ARRANGEMENT OR CONNECTIONS FROM THOSE SHOWN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT TO BE PROVIDED AND IN ACCORDANCE WITH THE ORIGINAL INTENT OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES IN ALL AFFECTED RELATED WORK PROVIDED UNDER OTHER SECTIONS INCLUDING LOCATIONS OF ROUGH-IN CONNECTIONS BY OTHER TRADES, CONDUIT SUPPORTS, INSULATION, ETC. ALL CHANGES SHALL BE MADE AT NO INCREASE IN THE CONTRACT AMOUNT OR ADDITIONAL COSTS TO THE OTHER TRADES AND/OR OWNER.
- 1.6 GUARANTEE
  - A. ALL EQUIPMENT AND WORK SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS AFTER ACCEPTANCE. ANY DEFECTS IN EQUIPMENT OR WORKMANSHIP SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. THE GUARANTEE PERIOD OF ANY PART OF THE REPAIRED ITEMS SHALL BE EXTENDED FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUCH REPAIR OR REPLACEMENT.
- 1.7 COMPLETION
  - A. UPON COMPLETION OF THE MECHANICAL INSTALLATION, DEMONSTRATE TO THE OWNER'S SATISFACTION THAT THE SYSTEMS HAVE BEEN INSTALLED IN A SATISFACTORY MANNER IN ACCORDANCE WITH THE PLANS AND APPLICABLE CODES. SHOW THAT ALL CONTROLS ARE OPERABLE AND ARE PROPERLY ADJUSTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FINAL SYSTEMS BALANCE, THAT ALL SYSTEMS ARE PROPERLY BALANCED, THAT ALL EQUIPMENT OPERATES PROPERLY, THAT FILTERS AND STRAINERS ARE CLEAN, AND THAT ALL COMPONENTS OF ALL SYSTEMS ARE INSTALLED AND ADJUSTED FOR PROPER OPERATION.

**PRODUCTS**

- 2.1 GENERAL
    - A. ALL MATERIALS SHALL BE NEW AND OF THE QUALITY SPECIFIED. MATERIALS SHALL BE FREE FROM DEFECTS. MANUFACTURERS SHALL BE AS SPECIFIED HEREIN OR BY ADDENDA. ALL PIPING EQUIPMENT, ETC., WHICH NEEDS TO BE INSULATED TO CONSERVE HEAT OR COOL, OR TO PREVENT FREEZING OR CONDENSATION, SHALL BE INSULATED. ALL MATERIALS SHALL HAVE THE UNDERMENTED LABORATORIES, INC. LABEL.
- BASIC MECHANICAL METHODS**
- 1.1 DIMENSION AND FIT
    - A. CUT MATERIALS ACCURATELY FROM MEASUREMENTS TAKEN ON THE JOB SITE.
    - B. DO NOT SPRING OR BEND PIPE TO FIT CONDITIONS OR MAKE UP JOINTS.
  - 1.2 SERVICABILITY OF PRODUCTS
    - A. FURNISH ALL PRODUCTS TO PROVIDE THE PROPER ORIENTATION OF SERVICABLE COMPONENTS TO ACCESS SPACE PROVIDED.
    - B. COORDINATE INSTALLATION OF PIPING, DUCTWORK, EQUIPMENT, SYSTEM COMPONENTS, AND OTHER PRODUCTS TO ALLOW PROPER SERVICE OF ALL ITEMS REQUIRING PERIODIC MAINTENANCE OR REPLACEMENT.
    - C. REPLACE OR RELOCATE ALL PRODUCTS INCORRECTLY ORDERED OR INSTALLED TO PROVIDE PROPER SERVICABILITY.
    - D. PROVIDE ACCESS DOORS AND ACCESS PANELS IN CEILINGS, WALLS, FLOORS, ETC. FOR ACCESS TO TRAPS, VALVES, PRIMERS, DAMPERS, AUTOMATIC DEXMES, AND ALL SERVICABLE OR OPERABLE EQUIPMENT IN COMPAKED SPACES.
    - E. PROVIDE VIBRATION ISOLATORS ON ALL EQUIPMENT HAVING MOTORS AND SUPPORTED BY THE BUILDINGS STRUCTURE.
  - 1.3 ROUTING
    - A. ROUTE ALL PIPELINES AND DUCTWORK PARALLEL WITH BUILDINGS LINES AND AS HIGH AS POSSIBLE.
    - B. ROUTE PIPING AND DUCTS TO CLEAR ALL DOORS, WINDOWS, AND OTHER OPENINGS AND TO AVOID ALL OTHER PIPES AND DUCTS, LIGHT FIXTURES AND SIMILAR PRODUCTS.
    - C. PROVIDE UNIONS ADJACENT TO ALL EQUIPMENT AND WHERE REQUIRED FOR DISCONNECT AND MAINTENANCE OF EQUIPMENT.
    - D. SECURELY FRESH ALL MECHANICAL PLUMBING WORK TO THE STRUCTURE TO PREVENT HAZARD TO HUMAN LIFE AND LIMB, AND TO PREVENT DAMAGE TO PRODUCTS OF CONSTRUCTION UNDER ALL CONDITIONS OF OPERATION.
    - E. DO ALL SLEWING, CUTTING, AND PATCHING OF ROUGH CONSTRUCTION FOR PIPING, ALL CUTTING, REPAIRING AND REQUIRED STRUCTURAL REINFORCING FOR INSTALLATION OF THE WORK SHALL BE DONE IN CONFORMANCE WITH ARCHITECT'S DIRECTIONS AND ANY DAMAGE CAUSED BY CUTTING SHALL BE REPAIRED EQUAL TO ORIGINAL CONDITIONS. NO CUTTING WITHOUT ARCHITECT'S APPROVAL.
    - F. PLACE ANY SLEEVES, CHARGES, CONCRETE INSERTS, ANCHOR BOLTS, ETC., BEFORE CONCRETE IS POURED, AND BE RESPONSIBLE FOR CORRECT LOCATION AND INSTALLATION OF THESE ITEMS.

**MECHANICAL AND SEISMIC CONTROL FOR HVAC PIPING AND EQUIPMENT**

- 1.1 PERFORMANCE REQUIREMENTS
  - A. SEISMIC-RESTRAINT LOADING
    - a. SITE CLASS AS DEFINED IN THE IBC, AS REQUIRED BY LOCAL JURISDICTION.
    - b. ASSIGNED SEISMIC USE GROUP OR BUILDING CATEGORY AS DEFINED IN THE IBC, AS REQUIRED BY LOCAL JURISDICTION.
    - c. DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (0.2 SECONDS).
    - d. DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD.
- 1.2 COMPONENTS
  - A. VIBRATION ISOLATORS
    - a. ISOLATOR TYPE: NEOPRENE
    - b. MOUNTS: DOUBLE-DEFLECTION TYPE
    - c. RESTRAINED MOUNTS: ALL DIRECTIONAL MOUNTINGS WITH SEISMIC RESTRAINT; CAST-DUCTILE-IRON HOUSING
    - d. SPRING ISOLATORS: PRESTRESSING; LATERALLY STIFF; OPEN-SPRING TYPE
    - e. RESTRAINED SPRING ISOLATORS: PRESTRESSING; STEEL; OPEN-SPRING TYPE WITH SEISMIC RESTRAINT
    - f. HOUSED SPRING MOUNTS: DUCTILE-IRON OR STEEL HOUSING, WITH INTERNAL, VERTICALLY ADJUSTABLE SEISMIC SHIMMERS
    - g. ELASTOMERIC HANGERS: DOUBLE-DEFLECTION TYPE

1. SPRING HANGERS: COMBINATION COIL-SPRING AND ELASTOMERIC-INSERT HANGERS WITH SPRING AND INSERT IN COMPRESSION.
2. SPRING HANGERS WITH VERTICAL-LIMIT STOP: COMBINATION COIL-SPRING AND ELASTOMERIC-INSERT HANGERS WITH SPRING AND INSERT IN COMPRESSION AND WITH VERTICAL-LIMIT STOP.
3. PIPE RESTRICTION SUPPORTS: ALL-DIRECTIONAL, ACQUISITION, PIPE ANCHOR.
4. RESILIENT PIPE COILS
- B. AIR-MOUNTING SYSTEMS
  - a. AIR MOUNTS: PRESTRESSING; SINGLE OR MULTIPLE; COMPRESSED-AIR BELLOWS
  - b. RESTRAINED AIR MOUNTS: HOUSED COMPRESSED-AIR BELLOWS
- C. RESTRAINED VIBRATION ISOLATION ROOF-CURB RAILS: FACTORY-ASSEMBLED, FULLY ENCLOSED, INSULATED, AIR- AND WATERPROOF CURB WALL WITH SPRING ISOLATORS MOUNTED ON ELASTOMERIC ISOLATION PADS, AND SLABBER BUSHINGS.
- D. VIBRATION ISOLATION EQUIPMENT BRACES
  - a. STEEL BRACE: FACTORY-FABRICATED, WELDED, STRUCTURAL-STEEL BRACES AND RAILS
  - b. INTERIM BRACE: FACTORY-FABRICATED, WELDED, STRUCTURAL-STEEL BRACES AND RAILS READY FOR FIELD-APPLIED, CAST-IN-PLACE CONCRETE
- E. SEISMIC-RESTRAINT DEVICES
  - a. SHIMMERS: MOLDED STRUCTURAL-STEEL SHIMMES AND REPLACEABLE RESILIENT ISOLATION WASHERS AND BUSHINGS
  - b. CHANNEL SUPPORT SYSTEM: MFM-3 SLOTTED STEEL CHANNELS
  - c. RESTRAINT COLLARS: STAINLESS-STEEL
  - d. ANCHOR BOLTS: MECHANICAL TYPE; SEISMIC RATED
  - e. RESILIENT ISOLATION WASHERS AND BUSHINGS: MOLDED NEOPRENE

**FIELD QUALITY CONTROL**

- 1.3 FIELD QUALITY CONTROL
  - A. TESTING: BY CONTRACTOR.

**RE DISTRIBUTION**

- 1.1 FILTERS
    - A. MANUFACTURERS: APPROVED EQUIPMENT
    - a. PLATED FILTERS OR APPROVED EQUIPMENT, OR AS NOTED ON THE DRAWINGS.
  - 1.2 DUCTWORK
    - A. MATERIALS:
      - a. STEEL DUCTS: GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY; MINIMUM GAUGE PER SECTION STANDARDS.
      - b. INSULATED FLEXIBLE DUCTS: FLEXIBLE DUCT WRAPPED WITH FLEXIBLE CLASS FIBER INSULATION ENCLOSED BY METALLIZED VAPOR BARRIER JACKET.
      - c. SEALANT: NON-HARDENING, WATER RESISTANT, FIRE RESISTANT, USED ALONE OR WITH TAPE.
    - B. METAL DUCTWORK
      - a. FABRICATION AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE EXCEPT AS INDICATED.
      - b. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF 1-1/2 TIMES WIDTH OF DUCT ON CENTER LINE, WHERE NOT POSSIBLE, PROVIDE TURNING VANES.
      - c. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 30 DEGREES DIVERGENCE AND 45 DEGREES CONVERGENCE.
      - d. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH DRUM BENDS.
      - e. USE COMP JOINTS WITH OR WITHOUT BEND FOR JOINING ROUND DUCT SIZES 8 INCHES AND SMALLER WITH COMP IN DIRECTION OF AIR FLOW.
      - f. DUCT SCHEDULES:
        - 1a. SUPPLY DUCTS CONNECTED TO CONSTANT-VOLUME AIR-HANDLING UNITS AND SECONDARY DUCTWORK AFTER TERMINAL UNITS
          - f.a.a. PRESSURE CLASS: POSITIVE 2-INCH WG.
          - f.a.b. MINIMUM SMACNA SEAL CLASS: B
          - f.a.c. SMACNA LEAKAGE CLASS FOR RECTANGULAR: 12
          - f.a.d. SMACNA LEAKAGE CLASS FOR ROUND: 12
        - 1b. SUPPLY DUCTS CONNECTED TO VARIABLE-VOLUME AIR-HANDLING UNITS
          - f.b.a. PRESSURE CLASS: POSITIVE 4-INCH WG.
          - f.b.b. MINIMUM SMACNA SEAL CLASS: B
          - f.b.c. SMACNA LEAKAGE CLASS FOR RECTANGULAR: 6
          - f.b.d. SMACNA LEAKAGE CLASS FOR ROUND: 6
        - 1c. RETURN DUCTS CONNECTED TO VARIABLE AND CONSTANT-VOLUME AIR-HANDLING UNITS
          - f.c.a. PRESSURE CLASS: POSITIVE OR NEGATIVE 2-INCH WG.
          - f.c.b. MINIMUM SMACNA SEAL CLASS: B
          - f.c.c. SMACNA LEAKAGE CLASS FOR RECTANGULAR: 12
          - f.c.d. SMACNA LEAKAGE CLASS FOR ROUND: 12
        - 1d. EXHAUST DUCTS
          - f.d.a. PRESSURE CLASS: POSITIVE OR NEGATIVE 2-INCH WG.
          - f.d.b. MINIMUM SMACNA SEAL CLASS: B IF NEGATIVE, A IF POSITIVE
          - f.d.c. SMACNA LEAKAGE CLASS FOR RECTANGULAR: 12
          - f.d.d. SMACNA LEAKAGE CLASS FOR ROUND: 6
        - 1e. OUTSIDE AIR DUCTS
          - f.e.a. PRESSURE CLASS: POSITIVE OR NEGATIVE 2-INCH WG.
          - f.e.b. MINIMUM SMACNA SEAL CLASS: B
          - f.e.c. SMACNA LEAKAGE CLASS FOR RECTANGULAR: 12
          - f.e.d. SMACNA LEAKAGE CLASS FOR ROUND: 12
      9. SEISMIC-RESTRAINT DEVICES
        1. CHANNEL SUPPORT SYSTEM
        2. GALVANIZED STEEL RESTRAINT CABLES
        3. HANGER ROD SUPPORTER: STEEL TUBE OR STEEL SLOTTED-SUPPORT-SYSTEM SLEEVE WITH INTERNALLY BOLTED CONNECTIONS OR REINFORCING STEEL WEDGE CLAMPED TO HANGER ROD.
- 1.3 VOLUME CONTROL DAMPERS
  - A. PROVIDE ALL BRANCHED AND DUCT TAKE-OFFS, FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED.
  - B. FABRICATE SPLITTER DAMPERS OF MATERIAL SAME GAGE AS DUCT TO 24 INCHES SIZE IN EITHER DIRECTION, OR TWO GAGES REMAIND FOR LARGER SIZES. SECURE WITH CONTINUOUS HINGE OR ROD, OPERATE WITH MINIMUM 1/8 INCH DIAMETER ROD.
  - C. FABRICATE SINGLE BLADE DAMPERS FOR DUCT SIZES TO 1200 INCH.
  - D. EXCEPT IN RETURN DUCTWORK, 12 INCHES AND SMALLER, PROVIDE 0.01 BEARINGS.
  - E. PROVIDE LOCKING, INDICATING QUADRANT REGULATORS ON SINGLE AND MULTI-BLADE DAMPERS, WHERE WITH EXCEEDS 30 INCHES PROVIDE REGULATOR AT BOTH ENDS.
- 1.4 FLEXIBLE DUCT CONNECTIONS
  - A. LISTED FIRE-RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC TO NFPA 90, APPROXIMATELY 3 INCHES (75 MM) WIDE, CRAMPED INTO METAL EDGING STRIP.
- 1.5 AIR OUTLETS
  - A. MANUFACTURERS: PRICE, TITLE, AND ONLY, MANAGER, OR APPROVED EQUIPMENT.
  - B. DIFFUSERS/REGISTERS/GRILLES: PROVIDE AIR DUCTS TYPE, OPERATION, COLOR, ETC. AS SCHEDULED.
- 2.1 INSTALLATION
  - A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - B. INSTALL FLEXIBLE CONNECTIONS SPECIFIED BETWEEN FAN INLET AND DISCHARGE DUCTWORK. FLEXIBLE CONNECTIONS SHALL NOT BE IN TENSION WHILE RUNNING.
  - C. PROVIDE SMOKE SHUNT DAMPERS ON DISCHARGE OF EXHAUST FANS AND AS INDICATED.
  - D. PREVENT PRESSURE OF UNFILTERED AIR AROUND FILTERS WITH FELT, RUBBER, OR NEOPRENE GASKETS.
  - E. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.
  - F. PROVIDE FLEXIBLE CONNECTIONS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORISED EQUIPMENT.
  - G. CHECK LOCATION OF AIR OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM TO ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING ARRANGEMENTS.
  - H. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, AND GRILLES AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER, OR GRILLE AND REGISTER ASSEMBLY.

**MECHANICAL INSULATION**

- 1.1 SCOPE
  - A. GENERAL: FURNISH ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETE INSTALLATION OF THERMAL INSULATION ON ALL HOT AND COLD PIPING SURFACE AND DUCTWORK INSTALLED UNDER THE CONTRACT WHICH REQUIRE INSULATION FOR HEAT OR COLD CONSERVATION, FREEZE PROTECTION, PREVENTION OF CONDENSATION OR DRIPPING, COMFORT FOR OCCUPANTS, EFFICIENCY OR GAGE OF OPERATIONAL MECHANICAL INSULATION SHALL BE COMPLETE AND EFFECTIVE THROUGHOUT THE PROJECT.
  - B. SYSTEMS TO RECEIVE INSTALLATION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO:
    - a. HYDRONIC WATER LINES (SUPPLY AND RETURN)
    - b. CONCRETE DRINKS
    - c. HORIZONTAL RAIN LEADERS AND ROOF DRAINS
    - d. REFRIGERANT LINES (BOTH HIGH AND LOW PRESSURES)
    - e. PIPING ACCESSORIES AND SPECIALTIES
    - f. DUCTWORK
- 1.2 PIPE INSULATION
  - A. ALL ABOVE GRADE INSULATION SHALL HAVE COMPOSITE (INSULATION, JACKET OR FACING, ALL ADHESIVE OR CEMENT USED TO ADHERE THE JACKET TO THE INSULATION FREE AND UNIFORM) INSULATION. ALL INSULATION SHALL BE TESTED UNDER PROCEDURE ASTM E-84 AND NFPA 225.
  - B. APPROVED MANUFACTURERS: CERTAINED, OMEGA/CONNING, JOHNS-MANVILLE, UFGRAH, ARMOSTRONG, OR APPROVED EQUIPMENT.
  - C. LOCATE INSULATION AND COVER SAME IN LIST VISIBLE LOCATIONS.

- D. NEWLY FINISH INSULATION AT SUPPORTS, PROTRUSIONS, AND INTERSECTIONS.
- E. PROVIDE INSULATED DUAL TEMPERATURE PIPES OR COLD PIPES CARRYING FLUIDS BELOW AMBIENT TEMPERATURE WITH VAPOR BARRIER JACKETS, FINISH WITH GLASS CLOTH AND VAPOR BARRIER ADHESIVE. INSULATE COMPLETE SYSTEM.
- F. FOR INSULATED PIPES CARRYING FLUIDS ABOVE AMBIENT TEMPERATURE, PROVIDE STANDARD JACKETS, SEAL, AND SEAL ENDS OF INSULATION AT EQUIPMENT, FLANGES, AND UNIONS.
- G. PROVIDE NESEET BETWEEN SUPPORT SHEEDS AND PIPING ON PIPING 2 INCHES (50 MM) DIAMETER OR LARGER, FABRICATION OF CORK OR OTHER HEAVY DENSITY INSULATING MATERIAL, SUITABLE FOR TEMPERATURE, NOT LESS THAN 1/2 INCHES (12.5 MM) LONG.
- H. SCHEDULES:
  - a. CONDENSATE DRAINING: 1" FLEXIBLE ELASTOMERIC; ON PIPING EXPOSED TO WEATHER, PROVIDE ALUMINUM JACKETING.
  - b. REFRIGERANT LINES: 1" FLEXIBLE ELASTOMERIC; ON PIPING EXPOSED TO WEATHER, PROVIDE ALUMINUM JACKETING.

**DUCTWORK INSULATION**

- 1.3 DUCTWORK INSULATION
  - A. MANUFACTURERS: KNIFE, OR APPROVED EQUIPMENT.
  - B. MINERAL-FIBER BLANKET INSULATION MATERIAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II AND ASTM C 1260, TYPE II WITH FACTORY-APPLIED FIBER JACKET. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.
    - a. 1/2 INCH WALLS: 0.24 @ 75 DEGREES F (0.04 @ 24 DEGREES C)
    - b. DENSITY: 0.75 LB/CU FT (24 KG/CU M)
    - c. VAPOR BARRIER JACKET: ALUMINUM-FOL, FIBERGLASS-REINFORCED SCRIM WITH WRAP-PAAPER BACKING, COMPLYING WITH ASTM C 1136, TYPE II.
  - C. INSULATION PADS AND HANGERS
    - a. METAL, ADHESIVELY ATTACHED, PERFORATED-BASE INSULATION HANGERS: BRACEPLATE WELDED TO PROTECTING SPINDLE THAT IS CAPABLE OF HOLDING INSULATION OF THICKNESS INDICATED, SECURELY IN POSITION INDICATED WHEN SELF-LOADING WAGERS IS IN PLACE. COMPLY WITH THE FOLLOWING REQUIREMENTS:
      - i. BRACEPLATE EXPOSED TO OUTDOOR AIR: 1-1/2"
      - ii. VENTILATION DUCTS: 2"
      - iii. SUPPLY DUCTS: 2"
      - iv. RETURN DUCTS IN UNCONDITIONED SPACES: 1-1/2"
- 1.4 INSULATION
  - A. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - B. CONTINUE INSULATION VAPOR BARRIER THROUGH PENETRATIONS.
  - C. MISCELL:
    - a. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES; COMPLY WITH MIL-PRF-19565C, TYPE II.
    - i. FOR INDOOR APPLICATIONS, USE MASTICS THAT HAVE A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

**SYSTEM TESTING, ADJUSTING, AND BALANCING**

- A. TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE MADE BY AN INDEPENDENT NBC, OR ABC CONTRACTOR WHO IS CURRENTLY LICENSED. THE HVAC CONTRACTOR SHALL INSTALL NEW FILTERS IN ALL UNITS PRIOR TO THE AIR BALANCE. THE COMPLETE AIR BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION.
- B. BALANCE AIR AND WATER QUANTITIES TO WITHIN +/- 10% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS, OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST.
- C. THE BALANCE REPORT SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION:
  - A. CERTIFICATION NUMBER AND SIGNATURE OF BALANCING CONTRACTOR.
  - B. INSTRUMENTATION LIST WITH LAST CALIBRATION DATES.
  - C. MAKE AND MODEL NUMBERS OF ALL HVAC EQUIPMENT.
  - D. AIR CFM AND STATIC PRESSURE READINGS (DISCHARGE AND SUCTION) AS MEASURED BY PITCH TUBE TRAVELER AT THE UNIT.
  - E. MOTOR NAMEPLATE DATA WITH ACTUAL FIELD VOLTAGE AND AMPERAGE READINGS FOR EACH LOG.
  - F. MOTOR AND FAN RPM'S, SHEAVE SIZES AND BELT SIZES.
  - G. OUTSIDE, RETURN, MIXED AND SUPPLY AIR TEMPERATURES AT FULL COOLING AND HEATING.
  - H. WATER BALANCE DATA INCLUDING GPM WITH INLET AND OUTLET TEMPERATURE AND PRESSURE READINGS (WHERE APPLICABLE)
  - I. MAKE AND MODEL NUMBERS OF ALL AIR DISTRIBUTION EQUIPMENT.
  - J. FINAL BALANCED AIR VOLUMES AT ALL OUTLETS (INCLUDING RETURNS WHERE DUCTED).
  - K. INKED-IN PLAN WITH DIFFUSER AND RETURN LOCATIONS.
- E. ALL CONTROL SEQUENCES SHALL BE TESTED (INTERLOCKED EQUIPMENT, SMOKE DETECTORS, SMOKE EVACUATION, ECONOMIZER, ETC.) AND OPERATING STATUS RECORDED IN THE REPORT.
- F. THREE COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED THROUGH THE GENERAL CONTRACTOR TO THE TENANT'S CONSTRUCTION MANAGER FOR APPROVAL.
- G. THE BALANCING CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTING AND BALANCING FUNCTIONS AS REQUIRED FOR THE SYSTEM DESIGNED IN THESE DRAWINGS. THE BALANCING CONTRACTOR SHALL RECHECK ANY ITEMS THAT THE TENANT DEEMS NECESSARY AT NO ADDITIONAL COST TO THE TENANT.
- H. THE CONTROLS CONTRACTOR SHALL PROVIDE, AT NO COST, ALL NECESSARY SOFTWARE AND HARDWARE REQUIRED FOR SYSTEM BALANCE AND VERIFICATION OF CONTROLS. CONTROLS CONTRACTOR SHALL BE PRESENT AND ASSIST TEST & BALANCE CONTRACTOR DURING CONTROLS VERIFICATION. PRIOR TO START OF TEST & BALANCE, THE CONTROLS CONTRACTOR SHALL VERIFY ALL CONTROLS ARE OPERATIONAL AND ALL INPUT VALUES HAVE BEEN ENTERED PER DESIGN DOCUMENTATION. CONTROLS CONTRACTOR SHALL PROVIDE CONTROL SYSTEM START-UP SHEETS VERIFYING CONTROLS OPERATION PRIOR TO THE START OF TEST & BALANCE.
- I. FINAL BALANCE REPORT SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUALS.

**DX SPLIT SYSTEMS SCHEDULE**

		AHU-01	AHU-02
<b>EVAPORATOR SECTION</b>			
INDOOR EVAPORATOR DESIGNATION		AHU-01	AHU-02
SERVICE	Guardian	Guardian	Guardian
MANUFACTURER	Guardian	Guardian	Guardian
MODEL NUMBER	RFC336	RFC336	RFC336
TYPE	Multi Position AHU	Multi Position AHU	Multi Position AHU
BEER (AT AIR)	12.25	12.25	12.25
NOTES	ALL	ALL	ALL
WEIGHT (LBS):	150	150	150
<b>FAN DATA</b>			
SUPPLY CFM (HIGH SPEED)	1,015	1,250	
OUTSIDE AIR CFM	130	111	
EXTERNAL STATIC PRESSURE "WG	0.50	0.50	
DX COOLING COIL			
NOMINAL TONNAGE	3 Tons	3 Tons	
ENTERING AIR DB (WB) °F	78.0°F / 65°F	78.0°F / 65°F	
LEAVING AIR (DB) (WB) °F	56.4°F / 54.3°F	56.3°F / 56°F	
SENSIBLE BTUH	23,700	25,900	
GRAND TOTAL BTUH COOLING	32,900	34,200	
VOLTS / PH / HZ	208/1/60	208/1/60	
<b>ELECTRIC HEATING DATA</b>			
ENTERING AIR EVAP (DB) °F	60°F	60°F	
Input (kW)	10	10	
<b>AIR-COOLED CONDENSER</b>			
DESIGNATION	ACU401	ACU402	
SERVICE	AHU-01	AHU-02	
LOCATION (INDOORS OR OUTDOORS)	Outdoors	Outdoors	
WEIGHT (LBS):	200	200	
SELF-CONTAINED OR SPLIT SYSTEM	SPLIT SYSTEM	SPLIT SYSTEM	
MANUFACTURER	Guardian	Guardian	
MODEL NUMBER	TC28B36	TC28B36	
VOLTS / PH / HZ	208/3/60	208/3/60	
WGA (Indoor Unit / Outdoor Unit)	483 / 11.9	483 / 11.9	
MCCP (Indoor Unit / Outdoor Unit)	50 / 20	50 / 20	
REFRIGERANT	R-410a	R-410a	
AMBIENT TEMPERATURE °F	98°F	98°F	

- NOTES:**
1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
  2. ESTIMATE EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH PLENUM AIR DEVICES, ETC.
  3. MANUFACTURER SHALL PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT
  4. PROVIDE TXV FOR FIELD INSTALLATION BY INSTALLING CONTRACTOR
  5. CONTACT TYLER REGISRT (832-342-7000) WITH TEXAS AIR BY SYSTEM FOR PRICING AND TECHNICAL INFORMATION

**FANS**

MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	POWER (WATTS)	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-01	RESTROOM 102	50	-	0.375	87 W	120/1/60	SWITCH	-	CEILING MOUNTED	BROAN	L100E	2,3,7
EF-02	MECH. 115	50	-	0.375	87 W	120/1/60	SWITCH	-	CEILING MOUNTED	BROAN	L100E	2,3,7

- GENERAL NOTES:**
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE, DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
  2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
  3. FAN SHALL BE CENTRIFUGAL, BELT DRIVE TYPE UNLESS OTHERWISE SCHEDULED.
- REMARKS:**
1. PROVIDE WITH BIRDSCREEN
  2. PROVIDE WITH BACKDRIFT DAMPER
  3. PROVIDE WITH ARCH. FOR COLOR FINISH
  4. PROVIDE WITH SPEED CONTROLLER.
  5. CENTRIFUGAL-DIRECT DRIVE
  6. PROVIDE WITH ROOF CURB
  7. CENTRIFUGAL CEILING MOUNTED EXHAUST FAN.

**GRILLE**

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	AIR PATTERN	MOUNTING	SIZE	REMARKS
A	SUPPLY	GRILLE	N/A	STEEL	ARCH. SPEC.	TITUS	TMS	N/A	SURFACE	24X24	45° DEFLECTION
B	RETURN	GRILLE	N/A	STEEL	ARCH. SPEC.	TITUS	PAR	N/A	SURFACE	24X24	45° DEFLECTION
C	SUPPLY	GRILLE	N/A	STEEL	ARCH. SPEC.	TITUS	TMS	N/A	SURFACE	12X12	45° DEFLECTION

LIGHTING FIXTURE SCHEDULE						
MARK	MANUFACTURER AND CATALOG NUMBER	MOUNTING	NO.	LAMPS	VOLTS	REMARKS
A1	LITHONIA #EPANL-2x4-4000LMHE-40K-EZT-A268	RECESSED	-	31W - LED 4,000 LUMENS	120	2'x4', LENSED LED LAY-IN PANEL LIGHT.
A1E	LITHONIA #EPANL-2x4-4000LMHE-40K-EZT-E10WCP-A268	RECESSED	-	31W - LED 4,000 LUMENS	120	SAME AS TYPE A1 EXCEPT WITH EMERGENCY BATTERY PACK W/ 90 MIN. OF BACK-UP.
A2	LITHONIA #EPANL-2x2-4000LMHE-40K-EZT-A268	RECESSED	-	31W - LED 4,000 LUMENS	120	2'x2', LENSED LED LAY-IN PANEL LIGHT.
A2E	LITHONIA #EPANL-2x2-4000LMHE-40K-EZT-E10WCP-A268	RECESSED	-	31W - LED 4,000 LUMENS	120	SAME AS TYPE A2 EXCEPT WITH EMERGENCY BATTERY PACK W/ 90 MIN. OF BACK-UP.
B	LITHONIA #LDNG-40/15-LO6-AR-LSS-MVOLT-EZ1-A268	RECESSED	-	18W - LED 1,500 LUMENS	120	6" OPEN REFLECTOR LED DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR.
BE	LITHONIA #LDNG-40/15-LO6-AR-LSS-MVOLT-EZ1-E10WCP-A268	RECESSED	-	18W - LED 1,500 LUMENS	120	SAME AS TYPE B EXCEPT WITH EMERGENCY BATTERY PACK W/ 90 MIN. OF BACK-UP.
C1	LUMENWERX #RIMHP3ULOSW90T-240120011CRDB-VERIFY	SUSPENDED	-	104W - LED 4000K	120	DECORATIVE CHANDELIER.
C2	LUMENWERX #RIMHP3ULOSW90T-240120011CRDB-VERIFY	SUSPENDED	-	104W - LED 4000K	120	DECORATIVE CHANDELIER.
D	INTENSE LIGHTING #MXG2PRDEM-1-L1-41-12-VERIFY	SUSPENDED	-	16W - LED 4000K	120	DECORATIVE PENDANT.
X1	LITHONIA #LHQM-LED-R-HO-SD-A268	UNIVERSAL	-	LED	120/277	WHITE THERMOPLASTIC COMBO EMERG. LTG. WITH RED LETTERS. UNIT WITH 90 MIN. OF BATTERY
X2	LITHONIA #LHQM-LED-R-HO-SD-A268	UNIVERSAL	-	LED	120/277	WHITE THERMOPLASTIC EXIT SIGN W/ DIRECTIONAL ARROWS.

NOTES:  
1. ALL COLORS SPECIFIED FOR FIXTURES ABOVE IN LIGHTING FIXTURE SCHEDULE SHALL BE COORDINATED WITH OWNER/ARCHITECT PRIOR TO PURCHASING.  
**LIGHTING FIXTURE SCHEDULE NOTES:**

ANY LIGHTING MANUFACTURER(S) SUBSTITUTED NOT AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED BY WRITTEN REQUESTS SUBMITTED TO THE ENGINEER OF RECORD AND PRIOR TO REVIEW OF SHOP DRAWINGS TO DETERMINE IF THE SUBSTITUTED FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER.

**DENTAL SUPPLIER NOTES**

- DENTAL EQUIPMENT SUPPLIER/INSTALLER IS RESPONSIBLE FOR FURNISHING PER-INSTALL ITEMS TO CONTRACTOR WHEN REQUIRED, AS WELL AS EQUIPMENT TEMPLATES.
- DENTAL EQUIPMENT SUPPLIER/INSTALLER IS RESPONSIBLE FOR VERIFYING ALL ELECTRICAL SPECIFICATIONS PROVIDED WITHIN THIS PROJECT THAT RELATE TO EQUIPMENT BEING INSTALLED.

WIRING AND GROUNDING OF ALL RECEPTACLES WITHIN PATIENT AREAS SHALL COMPLY WITH NEC 517.13 (A)(6).

PER N.E.C. 408.12: ALL NONLOCKING 120V RECEPTACLES LOCATED IN PATIENT AREAS SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

**ELECTRICAL GENERAL NOTES:**

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.
- NO MORE THAN THREE SINGLE PHASE CIRCUITS AND NO MORE THAN SIX CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN A SINGLE RACEWAY. WHEN FOUR, FIVE, OR SIX CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY, THEIR CURRENT CARRYING CAPACITIES SHALL BE DERATED AS REQUIRED BY THE NEC FOR NON-DIVERSIFIED LOADS. THE INSTALLED WIRE SIZE SHALL HAVE A NOMINAL AMPACITY RATING OF 125% OF THAT REQUIRED OR SPECIFIED WHEN FOUR OR MORE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY. NEUTRAL CONDUCTORS SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR IN ALL NON-LINEAR LOADED CIRCUITS AS REQUIRED BY THE NEC.
- ALL LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUITS CONDUITS SHALL CONTAIN A GROUND WIRE USING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
- ELECTRICIAN OF RECORD, & BONDED PER DIVISION 0-"CONTRACT" SPECIFICATIONS, AND BE FAMILIAR & EXPERIENCED WITH SUCH WORK INDICATED HEREIN, & QUALIFIED BY MOST RECENT OSHA CERTIFICATION TO WORK ON ENERGIZED EQUIPMENT; REFER TO & COMPLY WITH OSHA 29CFR.1910 & 1926 ELECTRICAL SAFETY PORTIONS. CONSTRUCTION METHOD AND MEANS AND THEIR REQUIREMENTS. CONTRACTOR SHALL PROVIDE WORK WITH STANDARD OF CARE FOR PROFESSION.
- MOUNT ALL LIGHT SWITCHES AT +48" A.F.F. UNLESS OTHERWISE NOTED.
- MOUNT ALL RECEPTACLES AT +17 1/2" A.F.F. UNLESS OTHERWISE NOTED.
- EMERGENCY LIGHTING UNITS & OR EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT WITH A CONSTANT HOT.
- ALL ELECTRICAL WORK INCLUDED IN THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE 2023 NATIONAL ELECTRICAL CODE (N.E.C.).
- TENANT(S) OR HIS/HER TELEPHONE VENDOR IS RESPONSIBLE FOR ALL WIRING ASSOCIATED WITH TELEPHONE/DATA SYSTEMS.

**ELECTRICAL KEYED NOTES:**

- PROVIDE "SENSOR SWITCH"(ACUITY BRANDS) #WSX-PDT-WH, DUAL TECHNOLOGY WALL MOUNTED MOTION SENSOR FOR AUTOMATIC CONTROL OF LIGHTS IN THIS ROOM. COORDINATE WITH OWNER/ARCHITECT FOR TIME-OUT ON SENSOR.
- PROVIDE "SENSOR SWITCH"(ACUITY BRANDS) #CM-PDT-9, DUAL TECHNOLOGY CEILING MOUNTED MOTION SENSOR CONNECTED TO POWER PACK FOR AUTOMATIC CONTROL OF LIGHTS IN THIS ROOM. COORDINATE WITH OWNER/ARCHITECT FOR TIME-OUT ON SENSOR.
- PROVIDE "ACUITY CONTROLS" #HPODA-DX-WH (NIGHT ENABLED) WALL POD WITH ON/OFF + RAISE/LOWER CONTROL OF LIGHTS IN THIS ROOM. ROUTE CAT5e CABLE FROM WALL POD TO "ACUITY CONTROLS" #HPP160S (NIGHT ENABLED) POWER PACK LOCATED ABOVE THE CEILING. IN ADDITION FROM THE POWER PACK DASHY CHAIN 0-10V(Low-VOLTAGE) WIRING TO EACH FIXTURE.
- PROVIDE "ACUITY CONTROLS" #HPODA-2P-DX-WH (NIGHT ENABLED) WALL POD WITH 2-CHANNEL ON/OFF + RAISE/LOWER CONTROL OF LIGHTS IN THIS ROOM. ROUTE CAT5e CABLE FROM WALL POD TO "ACUITY CONTROLS" #HPP160S (NIGHT ENABLED) POWER PACK LOCATED ABOVE THE CEILING. IN ADDITION FROM THE POWER PACK DASHY CHAIN 0-10V(Low-VOLTAGE) WIRING TO EACH FIXTURE.
- NEW 120/208V, 3ø, 4W PANELBOARD LA(2-SECTION). REFER TO SHEET E201 FOR PANEL SCHEDULE INFORMATION.
- MOUNT DUPLEX RECEPTACLE AT +36" A.F.F. FOR REFRIGERATOR.
- J-BOX MOUNTED FLUSH WITH FINISHED FLOOR FOR DENTAL CHAIR POWER. REFER TO DENTAL SUPPLIER FOR EXACT REQUIREMENTS AND MOUNTING.
- CONTRACTOR TO COORDINATE EXACT LOCATION OF 3" (76MM), CORE HOLE IN FLOOR FOR POWER, TELEPHONE AND DATA. CONTRACTOR TO DETERMINE MOST PRACTICAL ROUTING IN FIELD. COORDINATE PATCHING OF FLOOR WITH ARCHITECT.
- PROVIDE EMPTY 2" CONDUIT WITH PULL-WIRE FOR ADDITIONAL DENTAL CHAIR EQUIPMENT.
- PROVIDE QUAD RECEPTACLE ABOVE COUNTER FOR TREATMENT CABINET. REFER TO DENTAL EQUIPMENT SUPPLIER FOR EXACT LOCATION AND REQUIREMENTS.
- MOUNT DUPLEX RECEPTACLE BELOW COUNTER FOR REFRIGERATOR.
- VERIFY EXACT MOUNTING HEIGHT FOR TELEVISION POWER/DATA WITH ARCHITECT PRIOR TO ROUGH-IN.
- POWER/DATA MOUNTED TO STRUCTURE FOR TELEVISION. VERIFY EXACT MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.
- MAKE FINAL CONNECTION TO AIR COMPRESSOR. REFER TO DENTAL EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS AND MOUNTING HEIGHT.
- MAKE FINAL CONNECTION TO VACUUM. REFER TO DENTAL EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS AND MOUNTING HEIGHT.
- 4"x8"x3/4" FIRE RETARDANT PLYWOOD FOR TELEPHONE TERMINAL BOARD, EXTEND (2) 4" FROM TELEPHONE COMPANY CABINET. OWNER OR HIS/HER TELEPHONE VENDOR IS RESPONSIBLE FOR ALL WIRING ASSOCIATED WITH TELEPHONE/DATA SYSTEMS.
- CEILING MOUNTED J-BOX FOR OPERATING LIGHT. VERIFY EXACT REQUIREMENTS WITH DENTAL SUPPLIER PRIOR TO ROUGH-IN.
- MOUNT OUTLET AT +36" A.F.F. FOR WASHER.
- MOUNT OUTLET AT +72" A.F.F. FOR DRYER. VERIFY EXACT MOUNTING HEIGHT, AMPERAGE AND NEMA CONFIGURATION WITH OWNER PRIOR TO ROUGH-IN.
- POWER AND DATA FOR PAN-X SYSTEM SHALL BE LOCATED WITHIN 20"-20" OF PAN-X EQUIPMENT. COORDINATE EXACT LOCATION WITH DENTAL EQUIPMENT SUPPLIER.
- DATA AND POWER MOUNTED IN CABINET ABOVE.
- DATA AND POWER MOUNTED BELOW COUNTER.
- REMOTE GFCI RESET SWITCH FOR REFRIGERATOR RECEPTACLE.

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-4  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

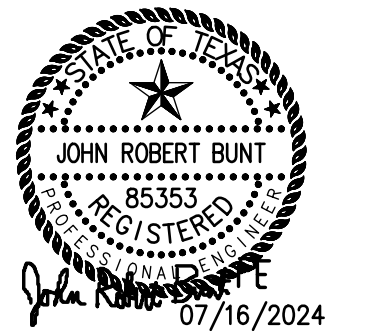
**MEP**  
K.O. DESIGN  
1327 W. MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368  
(832) 643 0368

**K.O. DESIGN**  
MEP  
**ENGINEERS**  
1327 W. Main Street  
Suite 7  
Tomball, Texas 77375  
832.643.0368 phone  
ko@kodesign-mep.com

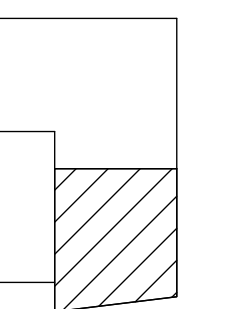
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24
2	CITY OF AUSTIN RESPONSE #2	07/16/24

**SEAL / SIGNATURE**



**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DR., AUSTIN, TX 78741

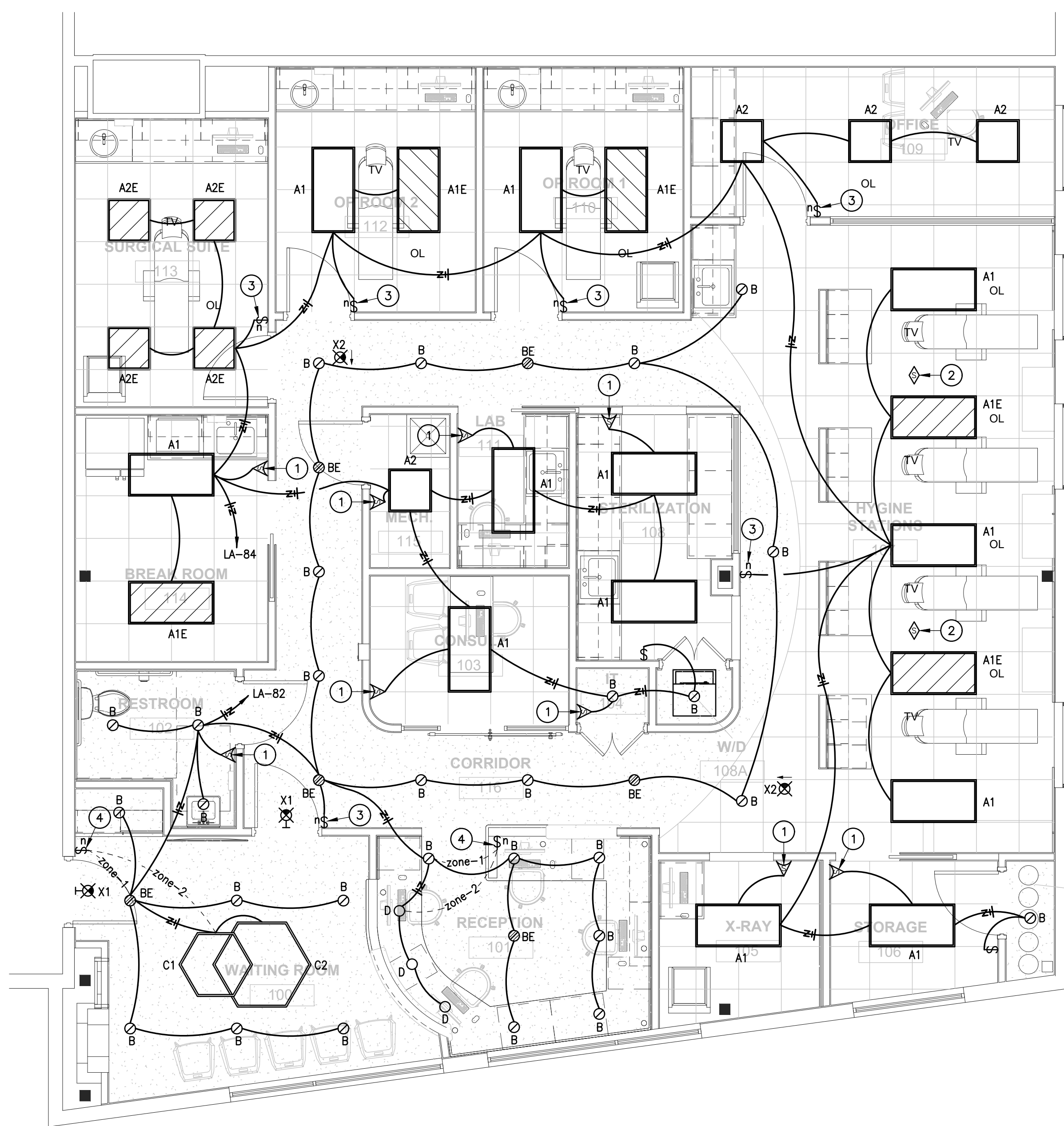
**PROJECT NUMBER**

24017

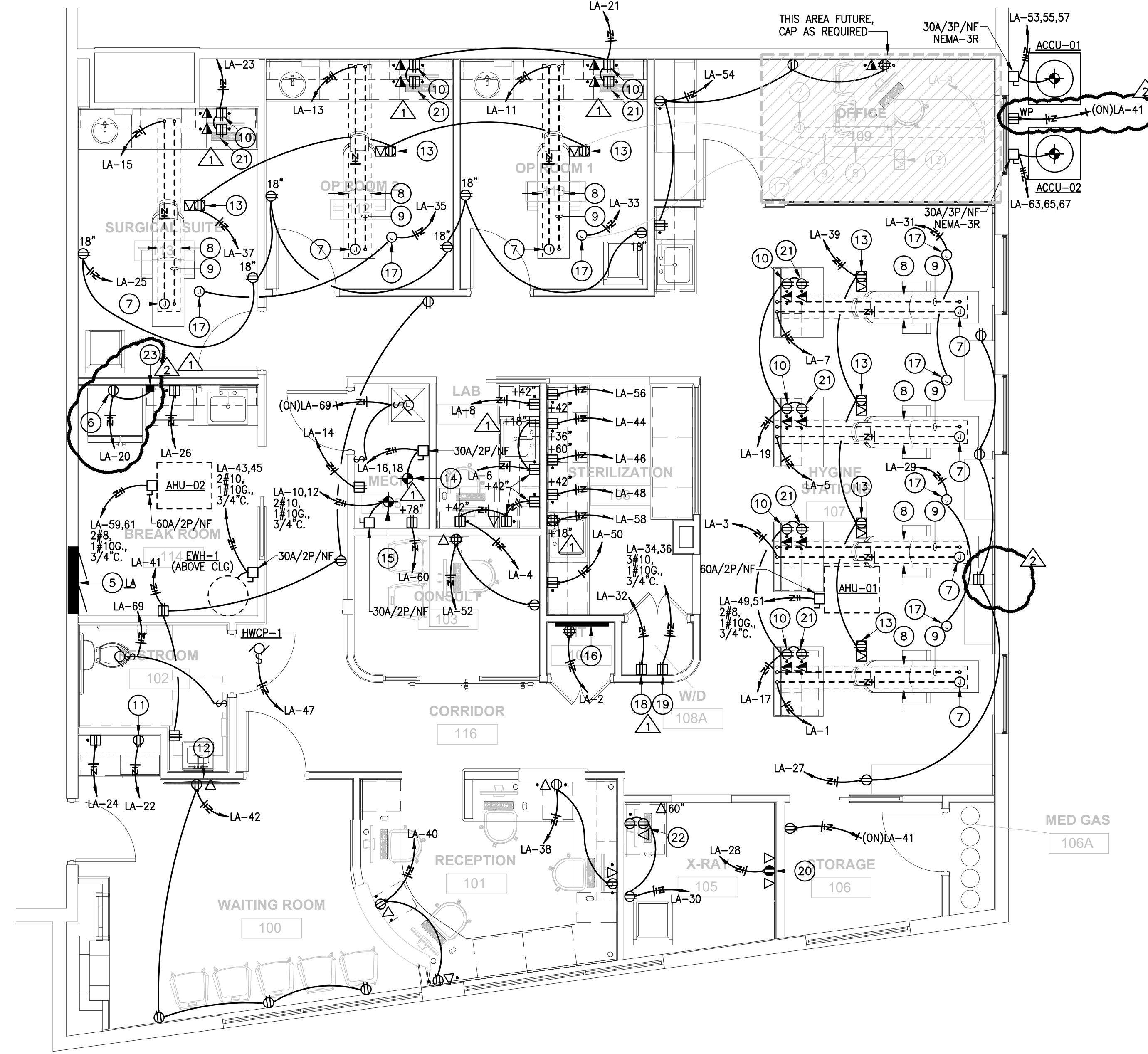
**DATE**

05/23/24

**ELECTRICAL FLOOR PLANS**



**1 ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"



**2 ELECTRICAL POWER PLAN**  
SCALE: 1/4" = 1'-0"

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

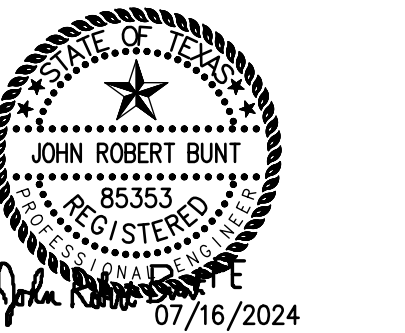
**M.E.P.**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368

**K DESIGN** M.E.P.  
**ENGINEERS**  
1327 W. Main Street  
Suite 7  
Tomball, Texas 77375  
832.643.0368 phone  
ko@kodesign-mep.com

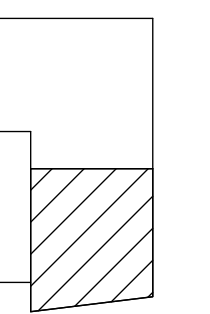
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24
2	CITY OF AUSTIN RESPONSE #2	07/16/24

**SEAL / SIGNATURE**



**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**  
SUPER KIDS DENTAL

**PROJECT ADDRESS**  
6707 E RIVERSIDE DR., AUSTIN, TX 78741

**PROJECT NUMBER**  
24017

**DATE**  
05/23/24

**ELECTRICAL RISER DIAGRAM**

ELECTRICAL LOAD ANALYSIS	
PROJECT: SUPER KIDS DENTAL	
LOCATION: AUSTIN, TX	
DESCRIPTION: TENANT IMPROVEMENT	
VOLTAGE: 120/208V, 3Ø, 4W	
LOAD DESCRIPTION	LOAD KVA
LIGHTING CONNECTED LOAD= 1.7 KVA AT 1.25% = <2.1>	-
LIGHTING 1.7W X 2,065 SOFT. =	3.5
RECEPTACLES - FIRST 10 KW + 50% OF REMAINDER AT 100% =	6.2
DENTAL EQUIPMENT AT 100% =	16.6
H.V.A.C. AT 100% =	28.2
25% LARGEST MOTOR =	0.2
EXHAUST FANS =	0.4
PLUMBING AT 100% =	4.7
MISCELLANEOUS NON-CONTINUOUS AT 100% =	15.1
MISCELLANEOUS CONTINUOUS AT 1.25% =	1.6
TOTAL ESTIMATED CONNECTED LOAD =	76.5
76.5 KVA / 208 / √3 = AMPS	212.3 AMPS
NEW TENANT SERVICE SIZE = 250.0 AMPS AT 208V, 3Ø, - 4W	
TENANT SERVICE SPARE CAPACITY = 37.7 AMPS	

(SECTION-1)

PANEL 'LA'		120/208V, 3Ø, 4W		MOUNTING: SURFACE	
LOCATION: BREAKROOM 114		250 AMP MCB		NEMA-1 22K ISCA	
OKT LOAD	* KVA	WIRE	BKR	* KVA	LOAD
1 DENTAL CHAIR	0.5	#12 20/1	20/1	#12 0.5	T.I.B.
3 DENTAL CHAIR	0.5	#12 20/1	20/1	#12 0.4	LAB RECEPTACLES
5 DENTAL CHAIR	0.5	#12 20/1	20/1	#12 0.6	LAB EQUIPMENT
7 DENTAL CHAIR	0.5	#12 20/1	20/1	#12 0.6	LAB EQUIPMENT
9 DENTAL CHAIR	0.5	#12 20/1	30/2	#10 4.1	DRY VACUUM SYSTEM
11 DENTAL CHAIR	0.5	#12 20/1	-	-	-
13 DENTAL CHAIR	0.5	#12 20/1	20/1	#12 0.2	DRY VACUUM REC
15 DENTAL CHAIR	0.5	#12 20/1	20/2	#12 2.2	AIR COMPRESSOR
17 TREATMENT CABINETS	0.6	#12 20/1	-	-	-
19 TREATMENT CABINETS	0.6	#12 20/1	20/1	#12 0.8	1 REFRIGERATOR
21 TREATMENT CABINETS	0.6	#12 20/1	20/1	#12 0.5	1 U.C. REFRIGERATOR
23 TREATMENT CABINETS	0.3	#12 20/1	20/1	#12 0.5	COFFEE
25 OP ROOM RECEPTACLES	1.1	#12 20/1	20/1	#12 1.0	MICROWAVE
27 HYGIENE RECEPTACLES	0.8	#12 20/1	20/1	#12 1.0	PAN-X RECEPTACLE
29 OPERATING LIGHTS	1.0	#12 20/1	20/1	#12 0.4	WASHER
31 OPERATING LIGHTS	1.0	#12 20/1	20/1	#12 1.0	DRYER
33 OPERATING LIGHTS	1.0	#12 20/1	-	-	-
35 OPERATING LIGHTS	1.0	#12 20/1	-	-	-
37 OP ROOM TV'S	0.8	#12 20/1	20/1	#12 0.6	RECEPTION RECEPTACLES
39 HYGIENE TV'S	0.8	#12 20/1	20/1	#12 0.4	RECEPTION RECEPTACLES
41 MISC. RECEPTACLES	0.4	#12 20/1	20/1	#12 0.9	WAITING RECEPTACLES
TOTAL KVA = (SEE SECTION 2)					

\* NOTES  
1. INSTALL GFCI CIRCUIT BREAKER.

(SECTION-2)

PANEL 'LA'		120/208V, 3Ø, 4W		MOUNTING: SURFACE	
LOCATION: BREAKROOM 114		250 AMP MLO		NEMA-1 22K ISCA	
OKT LOAD	* KVA	WIRE	BKR	* KVA	LOAD
43 DMH-1	4.5	#10 30/2	20/1	#12 0.5	DEDICATED STERILIZER
45 ---	-	-	20/1	#12 0.5	DEDICATED STERILIZER
47 HMCP-1	0.2	#12 20/1	20/1	#12 0.5	DED. ULTRASONIC CLEAN
49 AHU-01	9.9	#10 50/2	20/1	#12 0.5	STERILE EQUIPMENT
51 ---	-	-	20/1	#12 0.6	CONSULT RECEPTACLES
53 ACQU-01	4.2	#12 20/2	20/1	#12 0.8	OFFICE RECEPTACLES
55 ---	-	-	20/1	#12 0.2	STERILE RW RECEPTACLE
57 ---	-	-	20/1	#12 0.5	STERILE EQUIPMENT
59 AHU-02	9.9	#10 50/2	20/1	#12 0.5	MASTER WATER SHUT-OFF
61 ---	-	-	-	-	SPACE
63 ACQU-02	4.2	#12 20/2	-	-	SPACE
65 ---	-	-	-	-	SPACE
67 ---	-	-	-	-	SPACE
69 EXHAUST FANS	0.4	#12 20/1	-	-	SPACE
71 SPACE	-	-	-	-	SPACE
73 SPACE	-	-	-	-	SPACE
75 SPACE	-	-	-	-	SPACE
77 SPACE	-	-	-	-	SPACE
79 SPACE	-	-	-	-	SPACE
81 SPACE	-	-	20/1	#12 0.9	LIGHTING
83 SPACE	-	-	20/1	#12 0.8	LIGHTING
TOTAL KVA = 72.2					

\* NOTES

FAULT CURRENT CALCULATIONS (END OF CONDUCTOR)						
LOCATION DESCRIPTION	STARTING ISC	MINIMUM CONDUCTOR LENGTH	PHASE MULTIPLIER	VOLTAGE	# OF CONDUCTOR SETS	ISC END
@ TENANT PANEL	25,246	50'	1.73	208	1	16,175

\* Equipment protection shall be a coordinated combination which has been tested in accordance with UL requirements for this equipment. Alternatively, the interrupting rating may be achieved through current-limiting fuses (Series-rated in a listed combination).

**SHORT CIRCUIT CALCULATIONS**  
USING BUSSMAN POINT TO POINT METHOD:  
ULTIMATE FAULT CURRENT FROM BUILDING GUTTER = 25,246 AMPS AT 208 VOLTS, 3 PHASE.

- SERVICE FROM BUILDING SERVICE GUTTER WITH #4/250 KCMIL APPROXIMATELY 50' FROM ELECTRICAL GUTTER TO TENANT PANEL.
  - A.  $F = \frac{50 \times 25,246 \times 1.73}{18,594 \times 208} = 0.56$
  - B.  $M = \frac{1}{1 + 0.56} = 0.64$
  - C.  $25,246 \times 0.64 = 16,157$  AMPS RMS SHORT CIRCUIT CURRENT AT TENANT PANEL
  - D. TENANT PANEL RATED AT 22,000 A.I.C. RMS SYM.

FAULT CURRENT CALCULATIONS  
**16,175 A.I.C. CALCULATED**  
May 22, 2024

**NOTE:**  
WHITE PLASTIC NAMEPLATE WITH ENGRAVED BLUE LETTERING FOR AVAILABLE FAULT CURRENT. SECURELY ATTACH NAMEPLATE TO EQUIPMENT USING SCREWS. THE USE OF "STICK-ON" NAMEPLATES SHALL NOT BE PERMITTED. THE LABEL SHALL BE 2"X3".

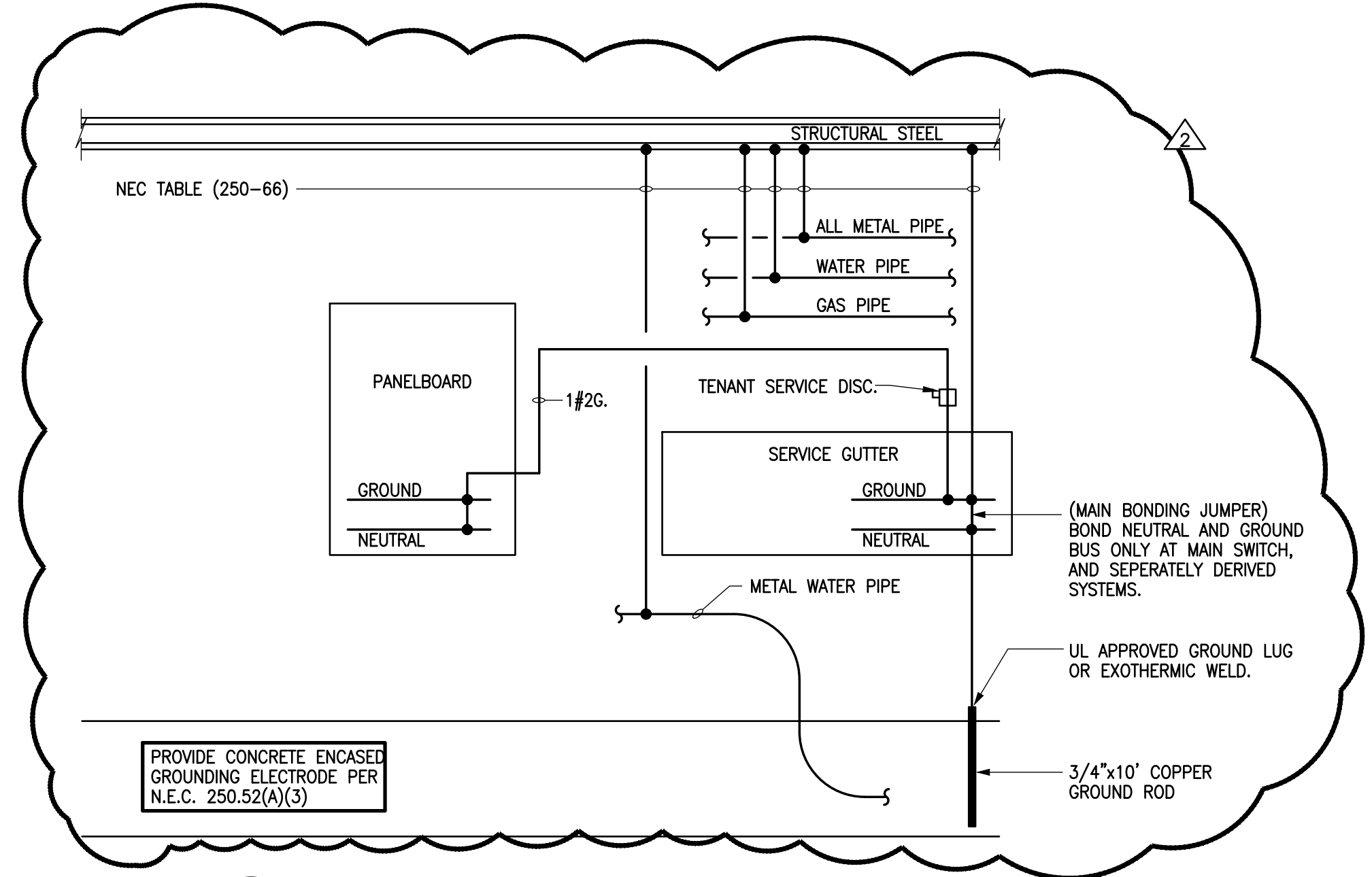
**4 AVAILABLE FAULT CURRENT LABELING DETAIL**  
SCALE: NONE

PANEL LA  
120/208 VOLT  
FED FROM METERING GUTTER

(TYPICAL PANEL LABEL)

**NOTE:**  
WHITE PLASTIC NAMEPLATE WITH ENGRAVED BLACK LETTERING FOR ELECTRICAL EQUIPMENT. SECURELY ATTACH NAMEPLATE TO EQUIPMENT USING SCREWS. THE USE OF "STICK-ON" NAMEPLATES SHALL NOT BE PERMITTED.

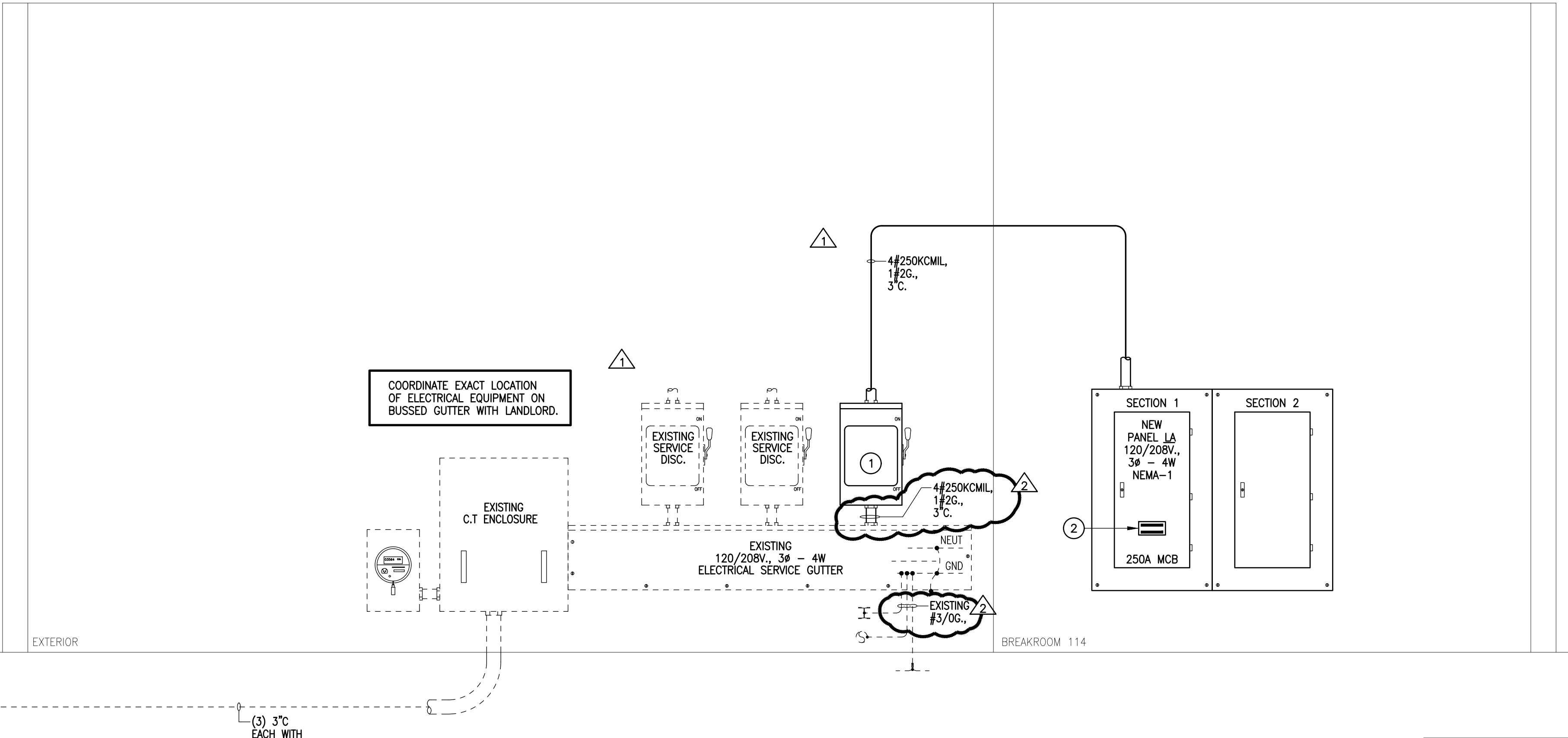
**2 EQUIPMENT LABELING DETAIL**  
SCALE: NOT TO SCALE



**3 SERVICE GROUNDING DETAIL**  
SCALE: NONE

**NOTE TO CONTRACTOR FOR COORDINATION WITH LOCAL ELECTRIC UTILITY COMPANY DESIGN STANDARDS:**

- ALTHOUGH THE ENGINEER HAS MADE EVERY EFFORT TO VERIFY & COORDINATE THE PROJECT SITE UTILITIES, THE SITE UTILITY SERVICE LOCATIONS ARE NOT NECESSARILY FINAL AND ARE SUBJECT TO REVISIONS PER REVIEW BY THE RESPECTIVE UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN APPROVALS FROM, AND COORDINATE WITH THE LOCAL UTILITY COMPANY TERMS & CONDITIONS PACKAGE, TO PROVIDE UTILITY SERVICE TO THE PROJECT. CONTRACTOR SHALL BASE HIS BID ON CONFORMANCE TO ALL UTILITY REQUIREMENTS AND SPECIFICATIONS DRAWINGS & NOTES.
- CONTRACTOR SHALL CONTACT LOCAL ELECTRIC UTILITY COMPANY IMMEDIATELY UPON AWARD OF CONTRACT. CONTRACTOR SHALL COORDINATE ALL UTILITIES AND THEIR REQUIREMENTS, ROUTING, METERS, AND DISCONNECTING MEANS PRIOR TO INSTALLATION OF ANY CONDUITS OR PIPING AS ESTABLISHED ELECTRICAL SERVICE DESIGN STANDARDS MAY HAVE CHANGED DURING THE DESIGN PHASE OF THIS PROJECT TO WHEN THE ACTUAL CONSTRUCTION PHASE STARTS.



**1 ELECTRICAL RISER DIAGRAM**  
SCALE: NONE

**ELECTRICAL RISER KEYED NOTES:**

- 400A/3P/250AF NEMA-1 SERVICE RATED DISCONNECT SWITCH WITH CURRENT LIMITING FUSES IN LOCKABLE ENCLOSURE.
- PROVIDE A PERMANENTLY AFFIXED 2"X3" LABEL WITH BLUE LETTERING ON CONTRASTING BACKGROUND LISTING THE FAULT CURRENT AT THE TIME OF INSTALLATION. REFER TO DETAIL #4 ON THIS SHEET.

RISER LEGEND	
-----	EXISTING TO REMAIN
-----	EXISTING TO BE REMOVED
-----	NEW CONSTRUCTION

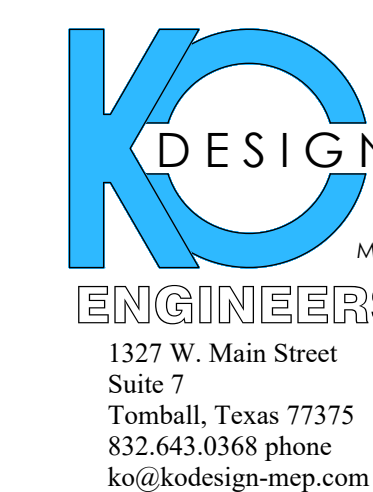


**PROJECT TEAM**

**OWNER**  
 SUPER KIDS DENTAL  
 2410 E RIVERSIDE DRIVE, SUITE 12-H  
 AUSTIN, TX 78741  
 www.superkidsaustin.com

**ARCHITECT**  
 ELEMENT ARCHITECTS, LLC.  
 1250 WOOD BRANCH PARK DR,  
 SUITE 480  
 HOUSTON, TX 77079  
 (713) 874 0775  
 www.ElementArchitects.com

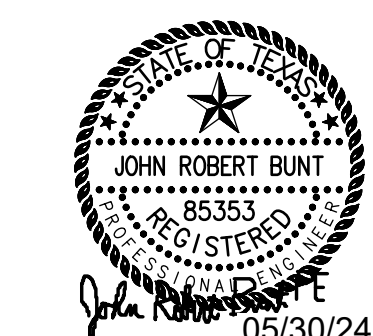
**MEP**  
 K.O. DESIGN  
 1327 W MAIN STREET, SUITE 7  
 TOMBALL, TX 77375  
 (832) 643 0368



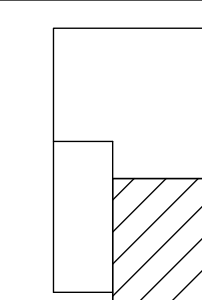
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
 FIRM REGISTRATION #: F-9072  
 EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
---	-------------	------

**SEAL / SIGNATURE**



**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**

SUPER KIDS DENTAL

**PROJECT ADDRESS**

6707 E RIVERSIDE DR., AUSTIN, TX 78741

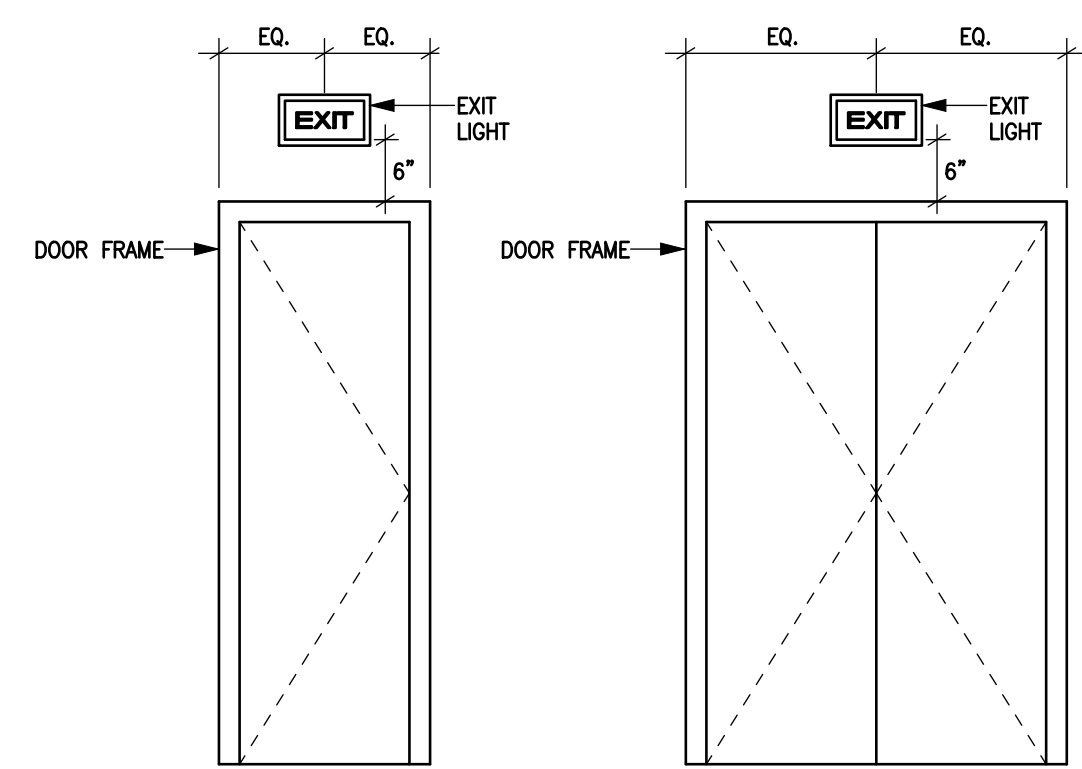
**PROJECT NUMBER**

24017

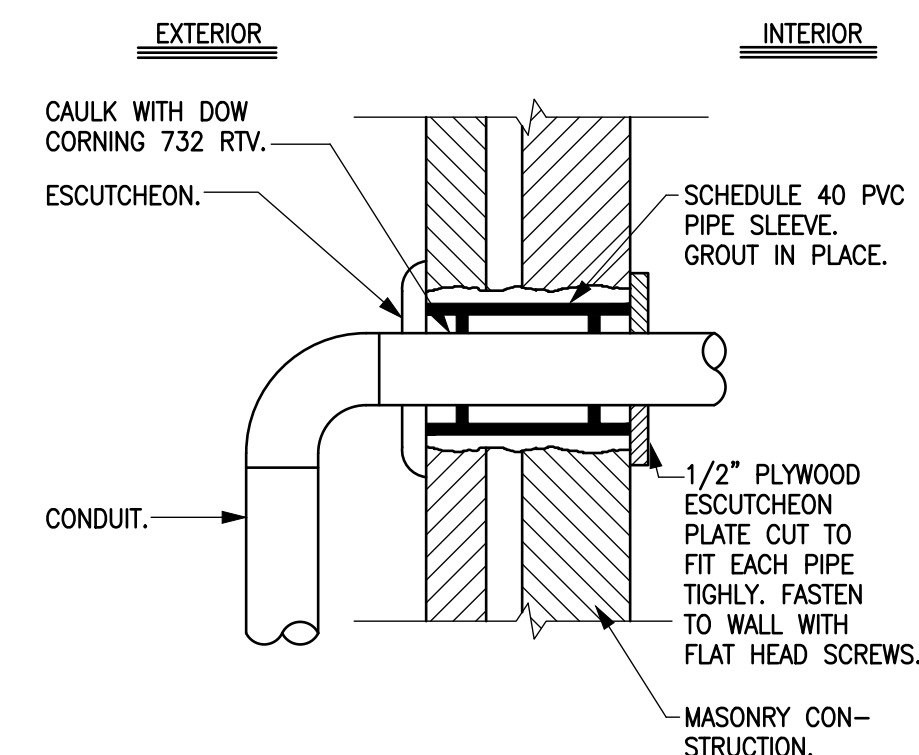
**DATE**

05/30/24

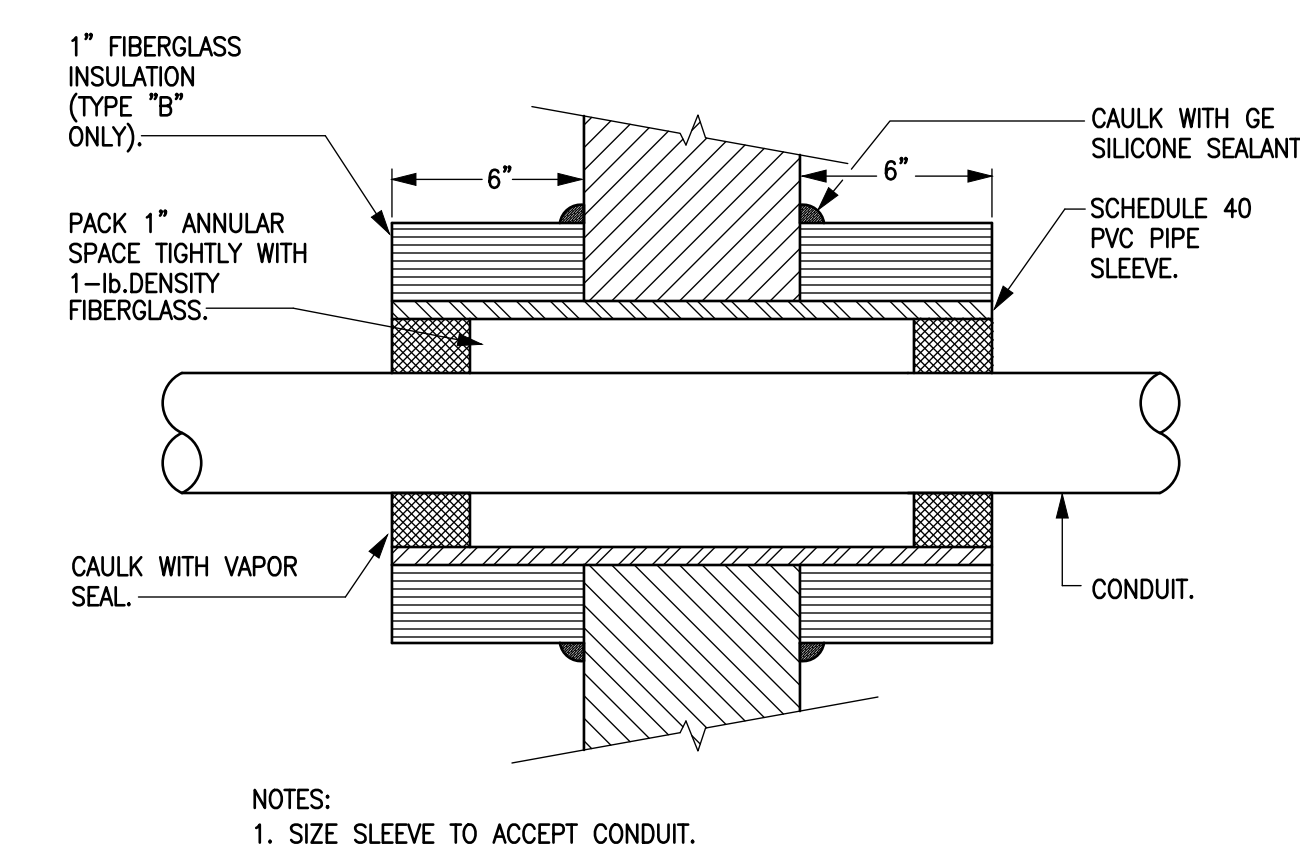
**ELECTRICAL SPECIFICATIONS**



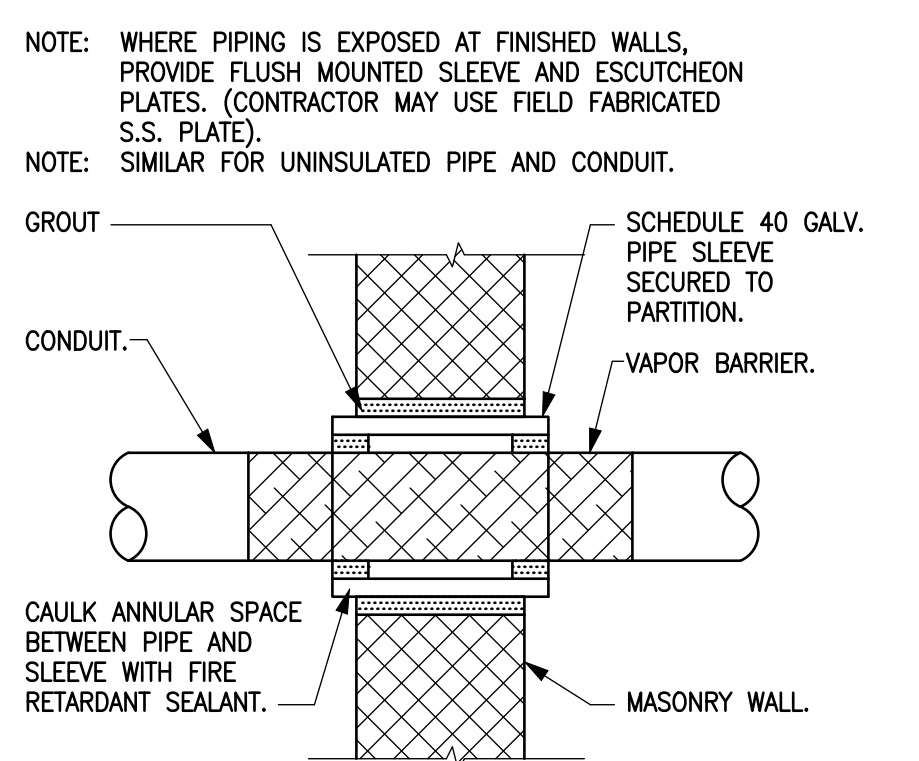
**1 TYPICAL EXIT SIGN LOCATION**  
 SCALE: NONE



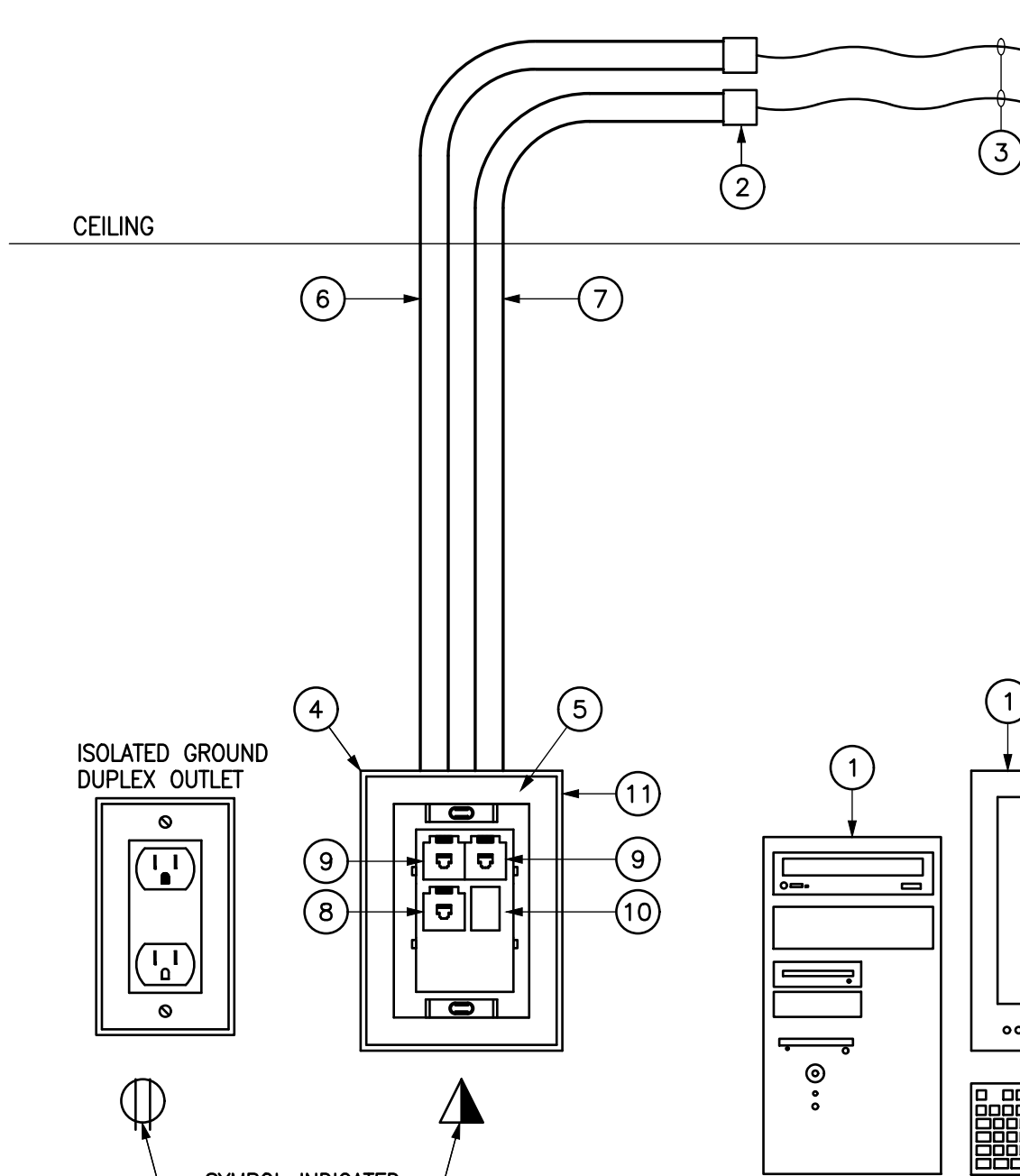
**2 CONDUIT ENTRY THRU EXTERIOR WALL DETAIL**  
 SCALE: NONE



**3 CONDUIT SEALANT THRU EXTERIOR WALLS DETAIL**  
 SCALE: NONE



**4 CONDUIT THRU FIRE RATED WALL DETAIL**  
 SCALE: NONE



**5 WORK STATION DEVICE LAY-OUT**  
 SCALE: NONE

**GENERAL NOTES**

1. ALL PATCH CABLES REQUIRED FOR DATA AND TELEPHONE TO BE PROVIDED BY OWNER.

**KEYED NOTES**

- 1 COMPUTER WORK STATION PROVIDED BY OWNER.
- 2 NYLON BUSHING ON END OF EACH CONDUIT.
- 3 PLENUM RATED CABLE PROVIDED BY OTHERS.
- 4 SINGLE-GANG ROUGH-IN OUTLET BOX.
- 5 PROVIDE DECORA SERIES WALL PLATE.
- 6 3/4" CONDUIT TO ABOVE CEILING WITH PULL-STRING FOR DATA CABLING.
- 7 3/4" CONDUIT TO ABOVE CEILING WITH PULL-STRING FOR TELEPHONE CABLING.
- 8 RJ-45 TELEPHONE CONNECTOR BY OTHERS.
- 9 RJ-45 DATA CONNECTOR BY OTHERS.
- 10 BLANK FOR FUTURE DEVICE.
- 11 4-PORT FACEPLATE.

**SPECIFICATIONS**

**GENERAL**  
 \* VERIFY ALL DIMENSIONS AT THE JOB SITE AND FROM THE ARCHITECTURAL PLANS.

\* UNLESS OTHERWISE NOTED, CONTRACTOR AND SUBCONTRACTOR SHALL PAY FOR ALL PERMITS AND CHARGES REQUIRED AND SHALL COMPLY WITH ALL GOVERNING CODES AND ORDINANCES.

\* VISITING THE SITE: EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND SHALL FULLY INFORM HIMSELF REGARDING THE FACILITIES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK OR MATERIAL OMITTED FROM THE BIDDER'S CONTRACT PROPOSAL DUE TO HIS FAILURE TO SO INFORM HIMSELF BY SUCH INVESTIGATION.

\* ALL CHANNELING AND PATCHING OF ROOF, FLOOR, CEILING AND WALLS SHALL BE GENERAL CONTRACTOR.

\* CONTRACTOR TO PROVIDE RECORD DRAWINGS TO OWNER.

FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON PLANS. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO ALL EQUIPMENT. MATERIAL SHALL BE AS FOLLOWS:

**CONDUIT:**

\* ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT COMPLYING WITH THE NATIONAL ELECTRICAL CODE. WHERE INSTALLED SUBJECT TO STRESS FROM COLLISION OR IMPACT, CONDUIT SHALL BE GALVANIZED RIGID STEEL. WHERE RIGID STEEL CONDUIT IS NOT REQUIRED, CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING WITH ELECTRO-GALVANIZING OUT SIDE AND ENAMEL INSIDE. TUBING SHALL BE BY "TRANGLE" OR AN APPROVED SUBSTITUTION. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED AT ALL MOTOR CONNECTIONS, OR WHERE MOVEMENT/VIBRATION IS A CONCERN. UNLESS NOTED OTHERWISE FLEXIBLE METAL CONDUIT MAY BE USED ONLY FOR CONNECTION TO LIGHTING FIXTURES, IN LENGTHS NOT TO EXCEED 6 (SIX) FEET. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH. MINIMUM SIZE FOR FLEXIBLE METAL CONDUIT SHALL BE 1/2 INCH. CONDUIT/CONDUCTOR FILL SHALL CONFIRM TO NATIONAL ELECTRICAL CODE, LATEST EDITION.

\* CARLON PVC TYPE SCH. 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED BELOW FLOOR SLAB OR UNDERGROUND IN LIEU OF RIGID, THREADED, GALVANIZED CONDUIT. PVC SCH. 40 CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB, OR IN WALL PANELS. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.

\* A GROUND CONDUCTOR SHALL BE SUPPLIED IN NONMETALLIC CONDUIT OR E.M.T. UTILIZING SET SCREW TYPE CONNECTORS. THE GROUND CONDUCTOR SHALL BE BARE, STRANDED, ANNEALED COPPER.

\* CONDUIT TO BE SUPPORTED FROM JOIST, PROVIDED HANGERS, SUPPORTS AND FASTENINGS AS REQUIRED BY NATIONAL ELECTRICAL CODE DO NOT SUPPORT FROM ROOF DECK.

**CONDUIT FITTINGS:**

\* ALL CONDUIT FITTINGS SHALL BE STEEL, SET SCREW OR COMPRESSION TYPE, INSULATED THROAT, UL LISTED. FITTINGS SHALL BE AS MANUFACTURED BY APPLETON ELECTRIC, OZ GEMINI CO., NARROW CONDUIT AND FITTINGS CORP., OR EQUAL.

**CONDUCTORS:**

\* ALL CONDUCTORS SHALL BE COPPER. EACH CONDUCTOR SHALL BE CONTINUOUS, WITHOUT WELD, SPLICE, OR JOINT THROUGHOUT ITS LENGTH, AND UNIFORM IN CROSS-SECTION. WIRE #6 AWG AND LARGER SHALL HAVE TYPE "THIN" INSULATION. WIRE #8 AWG AND SMALLER SHALL HAVE DUAL-RATED TYPE "THIN/THIN" INSULATION. MINIMUM WIRE SIZE, EXCEPT FOR CONTROL WIRING, SHALL BE #12 AWG. ALL WIRING INSIDE LIGHTING FIXTURES SHALL BE TEMPERATURE RATED PER THE N.E.C. - 90 DEGREES C. MINIMUM BRANCH CIRCUIT WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS SHALL BE TEMPERATURE RATED FOR 90 DEGREES C.

**DATA/TELEPHONE/CATV CABLING:**

\* ALL WIRING ABOVE CEILING SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT. CONTRACTOR TO PROVIDE WIRING FROM EACH DEVICE TO PLYWOOD BACKBOARD LOCATED IN OFFICE.

DATA CABLE SHALL BE CAT5.  
 TELEPHONE CABLE SHALL BE CAT3 OR BETTER.  
 CATV CABLE SHALL BE CO-AX.

**WIRING DEVICES:**

1. ALL WIRING DEVICES TO BE "LEVITON" DECORA SERIES. THIS INCLUDES SWITCHES, DIMMERS, RECEPTACLES, AND TELEPHONE/DATA OUTLETS.
2. ALL ISOLATED GROUND RECEPTACLES SHALL BE ORANGE '1G 5-20R', ALL OTHERS TO BE GREY '5-20R'.
3. ALL COVERPLATES TO BE "LEVITON" DECORA SERIES WITH STAINLESS-STEEL FINISH. (VERIFY EVERY DEVICE AND COVERPLATE FINISH ON THIS PROJECT WITH OWNER.)

**LIGHTING PANELBOARDS:**

1. 120/208V, 3-PHASE 4-WIRE, 120/240V, 1-PHASE, 3-WIRE OR 277/480V, 3-PHASE, 4-WIRE: FURNISH AND INSTALL AS SHOWN ON PLANS, LIGHTING PANELBOARDS BY SQUARE 'D' TYPE 'NODI' STYLE 'DT' OR EQUAL WITH BOLT ON CIRCUIT BREAKERS OR AN APPROVED SUBSTITUTION. ADDITIONAL BREAKERS FOR EXISTING PANELBOARDS SHALL BE OF TYPE MATCHING THE EXISTING BREAKERS.
2. PROVIDE TYPED DIRECTORY CARDS UNDER PLASTIC ON ALL DOORS OF PANELS.

**SAFETY SWITCHES:**

\* SAFETY SWITCHES SHALL BE FURNISHED AND INSTALLED AT ALL LOCATIONS INDICATED ON PLANS OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. ALL SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL HAVE CLIPS FOR REJECTION TYPE FUSES AND SHALL BE BY SQUARE 'D', G.E., OR EQUAL. FOR THE VOLTAGE AND LOAD INVOLVED, PROVIDE A COMPLETE SET OF FUSES IN ALL FUSED SWITCHES. FUSES SHALL BE CLASS AN-1 (BUSSMAN "LOW PEAK") FOR CIRCUITS UP TO 600 AMPS AND CLASS L (BUSSMAN "H-CAP" KRP-C) FOR CIRCUITS ABOVE 600 AMPS.

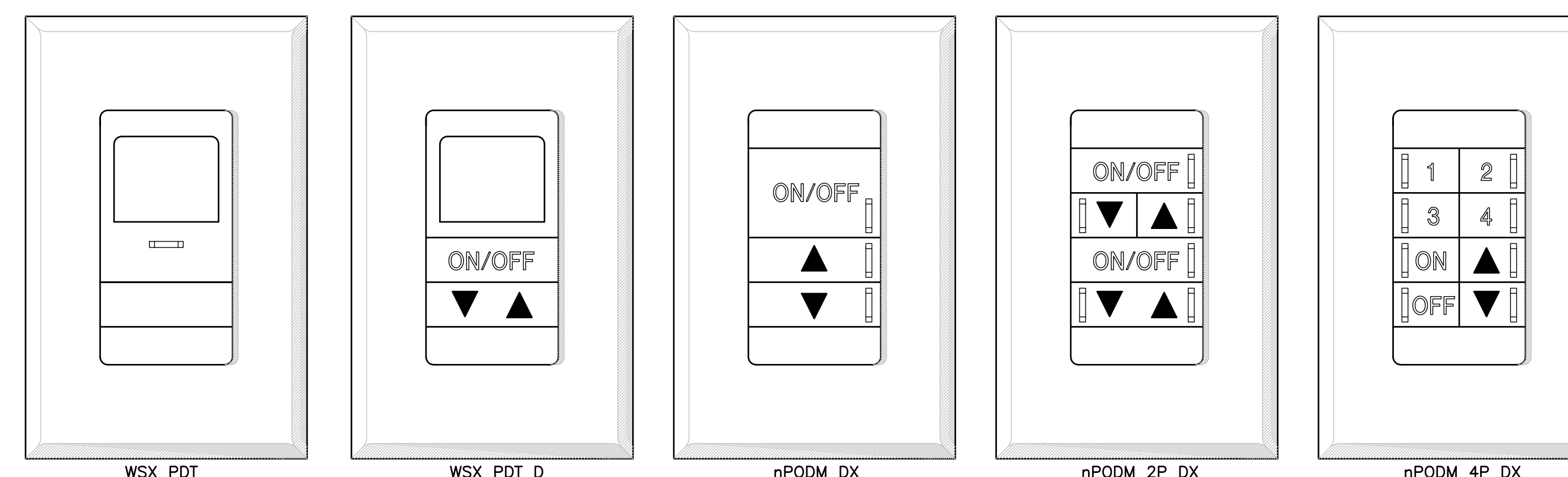
**TRANSFORMERS:**

\* FURNISH AND INSTALL G.E. TYPE "OL" OR EQUAL DRY TRANSFORMER WITH 2-1/2% CAPACITY TAPS ON THE PRIMARY WINDING (TWO ABOVE AND FOUR BELOW NORMAL VOLTAGE). TRANSFORMER SHALL BE RATED FOR 150 DEG. C. RISE ABOVE 40 DEG. C. AMBIENT DURING USE AND HAVE AN INSULATION SYSTEM RATED TO WITHSTAND 220 DEG. C.

**SYMBOL SCHEDULE**

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
<b>LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)</b>	
---	L.E.D. FIXTURE
---	L.E.D. FIXTURE ON EMERGENCY CIRCUIT
○	DOWNLIGHT FIXTURE
○	LIGHT FIXTURE - WALL MOUNTED
○	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
○	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
⊗	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
⊗	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
⊗	EMERGENCY LIGHTING UNIT EQUIPMENT
<b>SWITCHES</b>	
⊞	SINGLE POLE SWITCH
⊞	3-WAY SWITCH
⊞	TIME SWITCH
<b>RECEPTACLES AND OUTLETS</b>	
⊞	DUPLEX RECEPTACLE
⊞	DUPLEX RECEPTACLE WITH USB PORT
⊞	MEDICAL GRADE DUPLEX RECEPTACLE
⊞	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
⊞	ISOLATED GROUND DUPLEX RECEPTACLE
⊞	DOUBLE DUPLEX ISOLATED GROUND IN 2-GANG BOX WITH SINGLE COVER PLATE
⊞	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
⊞	480 VOLT, 3 PHASE, 4-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
⊞	JUNCTION BOX
⊞	PULL-BOX
⊞	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
⊞	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
⊞	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET
⊞	FLUSH FLOOR COMBO DOUBLE DUPLEX RECEPTACLE OUTLET WITH TELEPHONE/DATA OUTLETS.
⊞	SURFACE MOUNTED PLUGMOLD
⊞	FLUSH FLOOR JUNCTION BOX
⊞	FLUSH FLOOR PULL BOX
⊞	CEILING MOUNTED DATA OUTLET FOR SECURITY CAMERA (POE) POWER OVER ETHERNET. (CABLING IS BY OTHERS)
⊞	DATA OUTLET, 1-GANG BOX WITH 3/4" CONDUIT TO ABOVE CEILING
⊞	TELEPHONE OUTLET, 1-GANG BOX WITH 3/4" CONDUIT TO ABOVE CEILING
⊞	TELEPHONE/DATA OUTLET, 1-GANG BOX WITH (2)3/4" CONDUIT TO ABOVE CEILING
<b>MOTOR CONTROLLERS AND EQUIPMENT</b>	
⊞	MOTOR, MAKE FINAL MOTOR CONNECTION
⊞	DISCONNECT SWITCH AS REQUIRED
⊞	MANUAL MOTOR SWITCH AS REQUIRED
⊞	DUCT MOUNTED SMOKE DETECTOR
<b>ELECTRICAL EQUIPMENT</b>	
⊞	277/480 VOLT DISTRIBUTION OR PANELBOARD
⊞	120/208 VOLT OR 120/240 VOLT PANELBOARD
⊞	TELEPHONE CABINET
⊞	PLYWOOD TELEPHONE BACKBOARD
⊞	DRY TYPE TRANSFORMER
<b>CIRCUITING</b>	
---	CONDUIT
---	CONDUIT IN/OR BELOW FLOOR, SLAB, OR GRADE
---	3/4" UNLESS OTHERWISE NOTED; LONG HATCH, NEUTRAL; SHORT HATCH, PHASE; "Z" HATCH, INSULATED; NO HATCHES INDICATES 2 CONDUCTORS. ARROW INDICATES HOMERUN.
---	PARTIAL ELECTRICAL HOME RUN
<b>SUBSCRIPTS AND ABBREVIATIONS</b>	
E	NEXT TO ANY SYMBOL INDICATES EXISTING TO REMAIN
NL	NEXT TO ANY SYMBOL INDICATES NIGHT LIGHT
WP	NEXT TO ANY SYMBOL INDICATES WEATHERPROOF
T	NEXT TO ANY SYMBOL INDICATES TAMPERPROOF
XFMR	INDICATES TRANSFORMER
UG/E	INDICATES UNDERGROUND ELECTRICAL CONDUIT(S)
UG/T	INDICATES UNDERGROUND TELEPHONE CONDUIT(S)
*	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

**GENERAL NOTE:**  
 ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM UNLESS NOTED OTHERWISE.



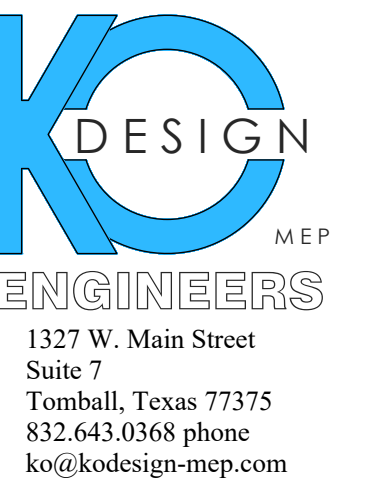
**6 LIGHT SWITCH FACE PLATE DETAILS**  
 SCALE: NONE

**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 124-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

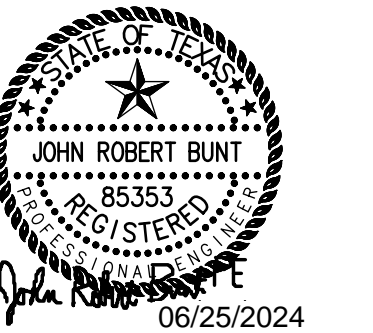
**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368



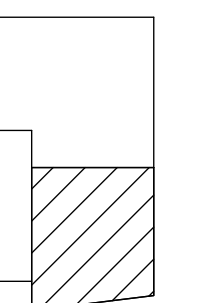
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**



**KEY MAP**



**PROJECT STATUS**

ISSUE FOR PERMIT

**PROJECT NAME**  
SUPER KIDS DENTAL

**PROJECT ADDRESS**  
6707 E RIVERSIDE DR., AUSTIN, TX 78741

**PROJECT NUMBER**  
24017

**DATE**  
06/25/24

**PLUMBING FLOOR PLANS**

**PLUMBING GENERAL NOTES:**  
(FOR SHEET P101)

- SANICUT AND REMOVE EXISTING FLOOR SLAB/PAVING AS REQUIRED TO PROVIDE NEW FIXTURES, GREASE TRAP, SAMPLE WELL, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR/PAVING TO MATCH EXISTING. ALL SUCH WORK IS TO BE DONE IN ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS.
- FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING SANITARY WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION TO ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
- CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
- BEFORE MAKING ANY CONNECTIONS AND AGAIN UPON COMPLETION OF WORK, THOROUGHLY ROD OUT AND FLUSH SANITARY PIPING TO ENSURE THEY ARE FREE FROM BLOCKAGES.
- AT CONNECTION TO EXISTING COLD WATER MAIN, PROVIDE WATER METER IF REQUIRED PER LANDLORD'S REQUIREMENTS AND/OR TENANT'S LEASE AGREEMENT.
- PRIOR TO BEGINNING CONSTRUCTION, COORDINATE PLUMBING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL CODE AUTHORITY AND PROVIDE AS DIRECTED.
- CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
- MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES.
- COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-IN'S.
- DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
- CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICE.
- CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
- ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE LANDLORD'S MOST RECENT RULES AND REGULATIONS FOR TENANT FINISHOUT. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH SUCH RULES AND REGULATIONS.

**BACKFLOW PREVENTION PROTECTION NOTE**  
BUILDING IS PROTECTED BY AN EXISTING BACKFLOW PREVENTER ON SITE.

**PLUMBING SPECIAL ROOFING NOTE**

ALL NEW ROOFING WORK SHALL BE PERFORMED BY LANDLORD'S ROOFING CONTRACTOR. THIS CONTRACTOR SHALL INCLUDE ALL CHARGES IN BID SUBMITTED.

**PLUMBING KEYED NOTES**  
(FOR SHEET P101)

- CONNECT NEW SANITARY TO EXISTING SANITARY WASTE LINE BELOW SLAB. FIELD VERIFY EXACT TIE-IN LOCATION. REFER TO PLUMBING GENERAL NOTE 1 ON THIS SHEET.
- PROVIDE 3/4" WATTS LF-009 REDUCED PRESSURE BACKFLOW DEVICE RPZ-1 TO SERVE FILTER STATION. COORDINATE EXACT LOCATION WITH DENTAL EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. REFER TO DETAIL #3 ON THIS SHEET FOR MORE INFORMATION.
- PROVIDE BRANCH WYE TAILPIECE AT SINK FOR HVAC CONDENSATE LINE. LOWER ROUGH-IN HEIGHT ACCORDINGLY. COORDINATE WITH MECHANICAL CONTRACTOR.
- FLOOR SINK TO SERVE ADJACENT DENTAL EQUIPMENT. COORDINATE LOCATION WITH EQUIPMENT BEING FURNISHED BY DENTAL SUPPLIER.
- CONNECT NEW 1-1/4" COLD WATER TO EXISTING COLD WATER LINE ABOVE CEILING. FIELD VERIFY SIZE AND LOCATION PRIOR TO START OF WORK. IF NO SHUT OFF VALVE EXISTS AT THIS LOCATION, PROVIDE NEW SHUT-OFF VALVE AS SHOWN.
- DENTAL COMPRESSOR SYSTEM FURNISHED BY DENTAL SUPPLIER PER CATEGORY 3, NFPA 99. PROVIDE 2" SCHEDULE 80 CPVC VENT COOLING AIR INTAKE PIPE FROM GARAGE WITH SHROUD AND SCREENED INLET. (LOCATE MINIMUM 10'-0" FROM WASTE VENT OR EXHAUST). ATTACH A PVC DRAIN TUBE TO THE DRIP LEG VALVE TO ALLOW DRAINAGE INTO FLOOR SINK. COORDINATE EXACT REQUIREMENTS AND MAKE ALL CONNECTIONS AS DIRECTED BY DENTAL EQUIPMENT SUPPLIER. (AIR TECHNIQUES MOJAVE MONITOR VS)
- DENTAL VACUUM SYSTEM FURNISHED BY DENTAL SUPPLIER PER CATEGORY 3, NFPA 99. PROVIDE 2" SCHEDULE 40 PVC VACUUM LINE UP TO ABOVE CEILING AND ROUTE AS SHOWN. PROVIDE 2" EXHAUST VENT LINE TO GARAGE WITH SHROUD AND SCREENED INLET. (SCH. 40 PVC IF HEAT EXCHANGER IS PROVIDED, RECOMMENDED PIPE USED WITH MODELS WITHOUT A HEAT EXCHANGER INCLUDES WROUGHT IRON PIPE (BLACK & GALVANIZED) OR COPPER PIPE TYPE M. INSULATE METAL PIPE IN UTILITY ROOM TO AVOID ADDING HEAT TO THE ROOM. INSULATION MUST BE RATED FOR A MINIMUM OF 300°F CONTINUOUSLY.) ROUTE 1-1/2" SCH. 40 PVC DRAIN LINE TO FLOOR SINK. COORDINATE EXACT REQUIREMENTS, LOCATION AND MAKE ALL CONNECTIONS AS DIRECTED BY DENTAL EQUIPMENT SUPPLIER. (AIR TECHNIQUES ARSTAR 50)
- PROVIDE NEW WATER HEATER FWH-1 SUSPENDED AS HIGH AS POSSIBLE IN ACCESSIBLE LOCATION. PROVIDE 3/4" COLD AND HOT WATER CONNECTIONS COORDINATE FINAL LOCATION WITH OWNER. ROUTE WATER HEATER T&P RELIEF AND DRAIN LINES TO FLOOR SINK IN ROOM BELOW WITH APPROVED AIR GAP.
- PROVIDE PLUMBING FIXTURE WITH THERMOSTATIC MIXING VALVE TMV-1 TO TEMPER HOT WATER TO 110°F.
- ROUTE 3/4" FILTERED WATER LINE, 1/2" AIR LINE & 3/4" VACUUM LINE DOWN TO DENTAL JUNCTION BOX. PROVIDE SHUT-OFF VALVES AS NECESSARY. COORDINATE EXACT REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER PRIOR TO ANY WORK BEING DONE. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING WHAT WAS INSTALLED AND INSTALLING NEW PIPING/EQUIPMENT AT HIS/HER COST.
- ROUTE 1/2" O2 LINE, 3/8" N02 & 3/4" VAC DOWN TO SURGICAL JUNCTION BOX. PROVIDE FLOW METER & SHUT-OFF VALVES AS NECESSARY. COORDINATE EXACT REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER PRIOR TO ANY WORK BEING DONE. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING WHAT WAS INSTALLED AND INSTALLING NEW PIPING/EQUIPMENT AT HIS/HER COST. REFER TO DETAIL #10 ON SHEET P301 FOR MORE INFORMATION.

- PROVIDE 3/4" PIPING WITH UNIONS AND VALVES TO ACCOMMODATE DENTAL WATER SLENOID CONTROL VALVE AND FILTER STATION. ROUTE 3/4" FILTERED COLD WATER TO SERVE ANY DENTAL EQUIPMENT AS DIRECTED BY DENTAL SUPPLIER. PROVIDE MASTER SHUT-OFF/BYPASS VALVE. COORDINATE EXACT REQUIREMENTS, LOCATION AND MAKE ALL CONNECTIONS AS DIRECTED BY DENTAL EQUIPMENT SUPPLIER.
- NITROUS OXIDE & OXYGEN SUPPLY TANKS AND CONTROLLER. REFER TO DETAIL #1 ON SHEET P302 FOR MORE INFORMATION. COORDINATE ALL MED GAS EQUIPMENT & REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY WORK BEING DONE.
- COORDINATE EXACT LOCATION AND ORIENTATION OF EQUIPMENT IN MED GAS ROOM WITH OWNER/EQUIPMENT SUPPLIER PRIOR TO ANY WORK BEING DONE.
- PROVIDE 1/2" FILTERED LINE WITH SHUT OFF VALVE FOR TANK WASHOUT PORT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER.
- PROVIDE AND INSTALL HOT WATER RETURN CIRCULATING PUMP HWCP-1 IN AN ACCESSIBLE LOCATION. REFER TO DETAIL #12 ON SHEET P301 FOR MORE INFORMATION.
- 3/4" FILTERED WATER LINE, 3/4" AIR LINE & 2" VACUUM. ENSURE THE VACUUM, FILTERED WATER & AIR PIPING ARE TIGHT TO STRUCTURE. COORDINATE EXACT SIZING AND ROUTING WITH DENTAL EQUIPMENT SUPPLIER PRIOR TO ANY WORK BEING DONE.
- SAME AS NOTE 17 EXCEPT WITH 1/2" AIR & 1" VACUUM LINE.
- 1/2" O2 LINE DOWN TO DENTAL EQUIPMENT. REFER TO DETAIL DRAWINGS FOR MORE INFORMATION.
- 1/2" O2 LINE, 3/8" N02 LINE & 1-1/2" VACUUM. ENSURE THE VACUUM, N02 & O2 PIPING ARE TIGHT TO STRUCTURE. COORDINATE EXACT SIZING AND ROUTING WITH DENTAL EQUIPMENT SUPPLIER PRIOR TO ANY WORK BEING DONE.
- SAME AS NOTE 20 EXCEPT WITH 1" VACUUM LINE.
- 1/2" O2 LINE, 3/8" N02 & 3/4" VAC CAP ABOVE CEILING AT 10'-0" FROM EXTERIOR WALL.
- SAME AS NOTE 17 EXCEPT WITH 1/2" AIR & 1-1/4" VACUUM LINE.

**NOTE TO CONTRACTOR:**  
ALTHOUGH THE ENGINEER HAS MADE EVERY EFFORT TO VERIFY ALL DENTAL & MED GAS EQUIPMENT & DROPS, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE EQUIPMENT SUPPLIER /OWNER FOR FINAL LOCATIONS, SIZING AND ANY ADDITIONAL EQUIPMENT & PIPING TO ENSURE THERE IS A COMPLETE WORKING SYSTEM.

**NOTE TO CONTRACTOR:**  
ALTHOUGH THE ENGINEER HAS MADE EVERY EFFORT TO VERIFY THE EXISTING PROJECT SITE UTILITIES, THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER FOR ANY NEW, REUSED OR DEMOLISHED EQUIPMENT/PIPING BASED ON THE EXISTING SITE UTILITIES.

**Plumbing Calculations**

Fixture	Quantity	Water Fixture Units (WFUs per type of fixture)	Drainage/Vent Fixture Units (DFUs per type of fixture)	Total Water Fixture Units Per Fixture	Total Drainage Fixture Units Per Fixture
Water Closet	1	5	4	5	4
Lavatory	1	5	4	5	4
Electric Drinking Fountain	0	0.25	0.5	0.00	0
Mop Sink	1	3	5	3	5
Washing Machine box	1	3	2	3	2
Sink	7	3	2	21	14
Floor Drain	1	-	5	-	5
Receptacle	1	-	5	-	5
Dental Equipment	1	10	-	10.0	-
<b>Total Fixture Units</b>				<b>47.00</b>	<b>39.00</b>

**Engineering Specification**

Job Name	Contractor
Job Location	Approved
Engineer	Contractor's P.O. No.
Approver	Representative

**LEAD FREE**  
**Series LF009**  
Reduced Pressure Zone Assemblies  
Sizes 1/2" - 3"

The Series LF009 Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with reduced plumbing codes and water authority requirements. This series can be used in a variety of installations, including the protection of health related water supplies in public buildings, schools, day care centers, and other facilities. The coating on the ballcheck assembly uses Armco's lead-free technology to meet demand for lead-free ballcheck assemblies (BAC) or reduced pressure zone assemblies (RPZ). The LF009 features Lead Free construction to comply with Lead Free installation requirements.

**Features**

- Single access cover and modular check construction for ease of maintenance
- Top entry - all elements immediately accessible
- Clamped springs for safe maintenance
- Improved seal valves for reduced maintenance/operation
- Redesigned seats for economical repair
- Utilizes advanced Armco's lead-free technology to meet "lead-free" code requirements
- Lead Free cast copper alloy body construction for durability 10" - 2"
- Flame spray coated cast iron body 2 1/2" and 3"
- Ball valve ball coaks - stainless steel 1/2" - 2"
- Large body passages provide low pressure drop
- Compact, space saving design
- No special tools required for servicing

**Specifications**

A Reduced Pressure Zone Assembly shall be installed at each potential health hazard location to prevent backflow due to back-siphonage and/or backpressure. The assembly shall consist of an internal pressure differential seal valve installed in a zone between the potable water supply and the health hazard location. The assembly shall be installed in an accessible location and shall be installed in accordance with the requirements of a local or state code. The assembly shall be installed in accordance with the requirements of a local or state code. The assembly shall be installed in accordance with the requirements of a local or state code.

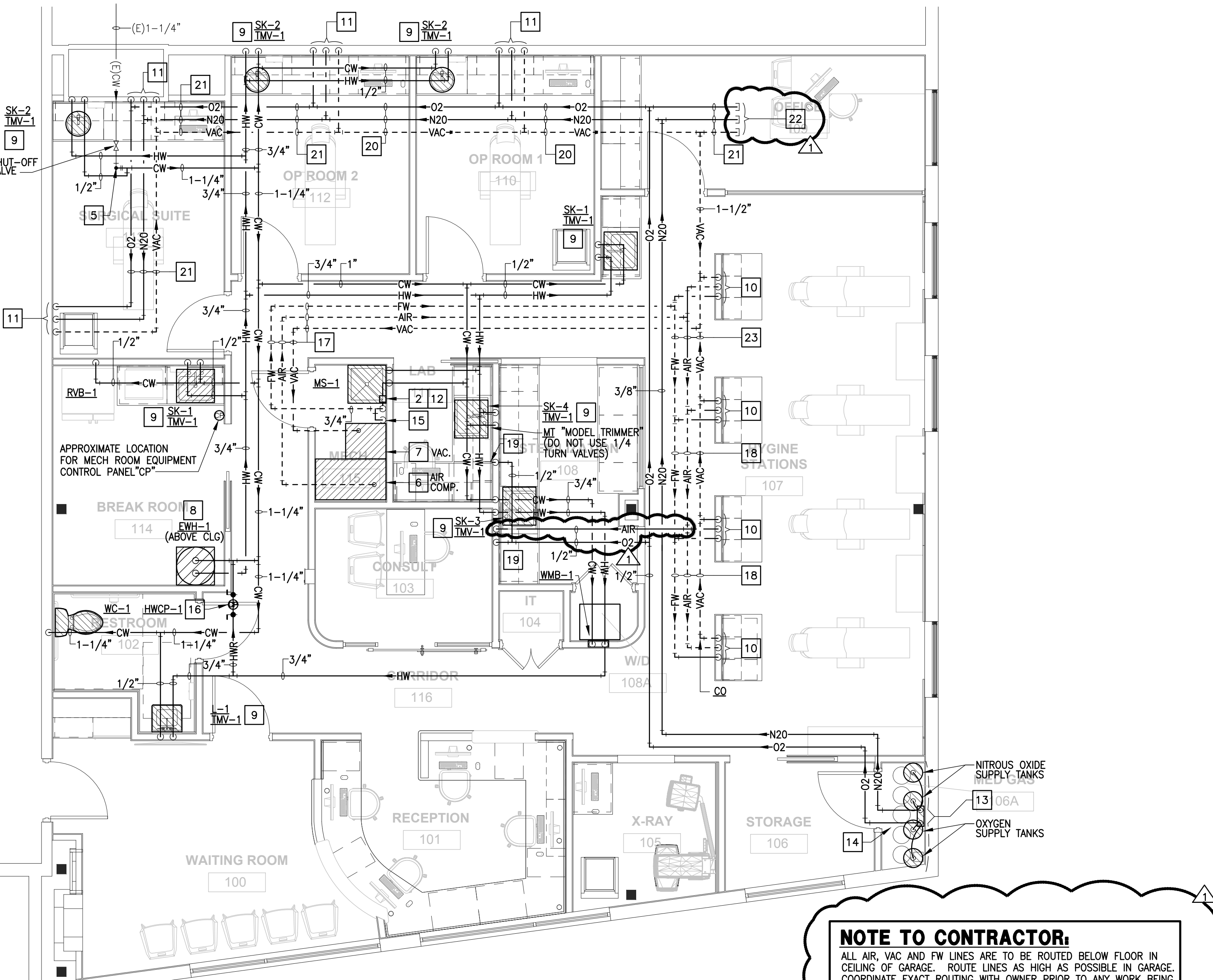
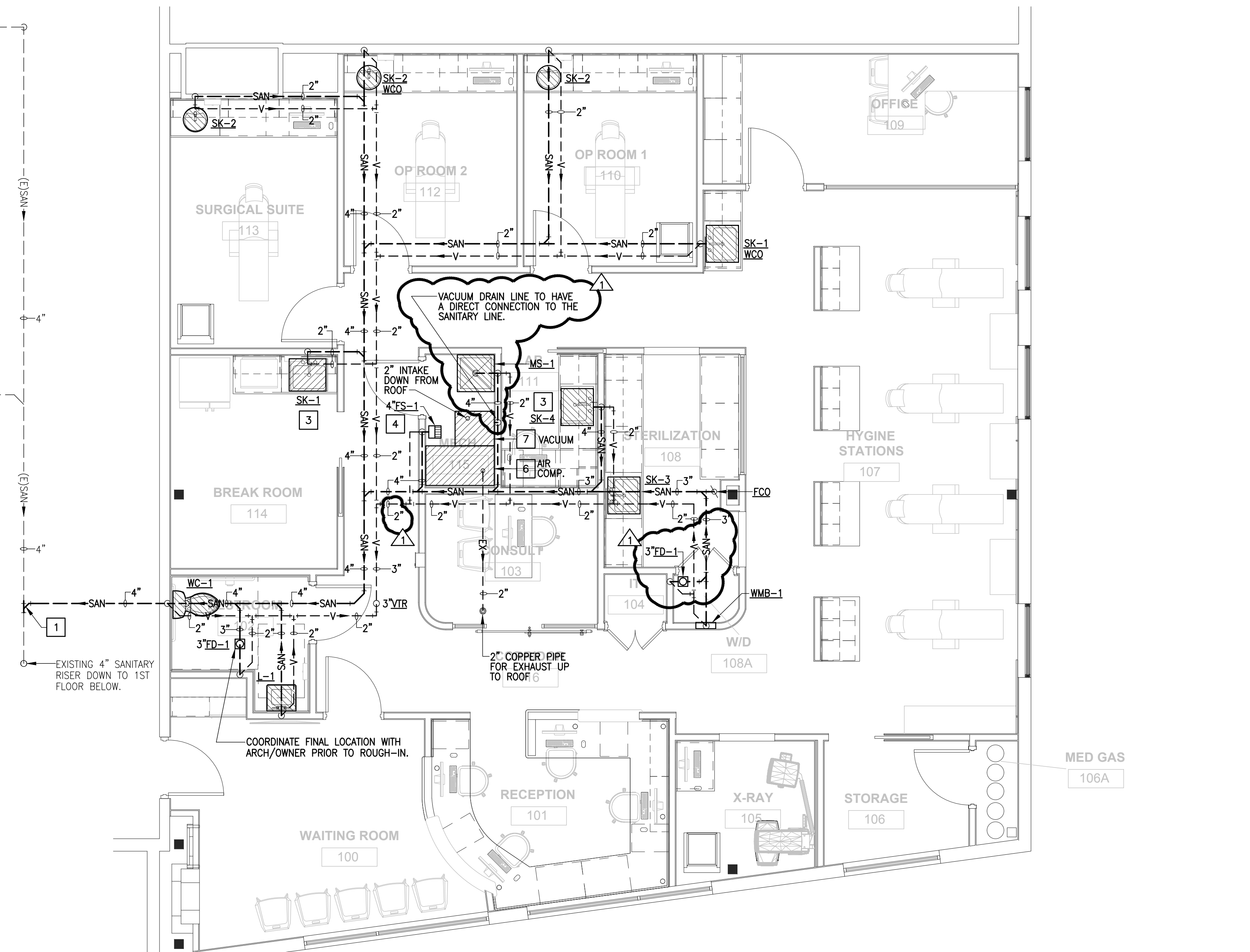
**NOTE:**  
The information contained herein is not intended to reduce the full liability of the manufacturer and liability information remains in the responsibility of a user of this product. You are advised to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

**NOTE:**  
The vertical surface of this product constructed by consumable water contains less than 0.05% of lead by weight.

**NOTE:**  
Armco's lead-free system is the 2 1/2" and 3" models only.

**3 REDUCED BACKFLOW PREVENTER "RPZ"**  
SCALE: NONE

**4 LAV / SINK TRAP PRIMER**  
SCALE: NONE



**NOTE TO CONTRACTOR:**  
ALL AIR, VAC AND FW LINES ARE TO BE ROUTED BELOW FLOOR IN CEILING OF GARAGE. ROUTE LINES AS HIGH AS POSSIBLE IN GARAGE. COORDINATE EXACT ROUTING WITH OWNER PRIOR TO ANY WORK BEING DONE.



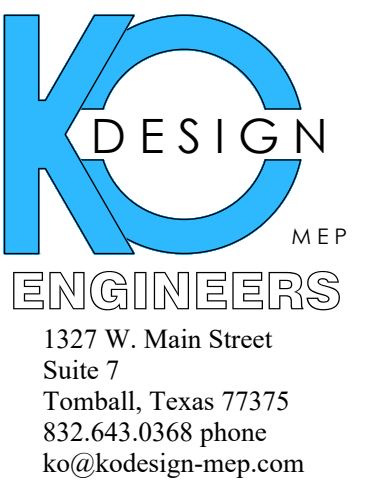
ELEMENT ARCHITECTS interiors

PROJECT TEAM

OWNER  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

ARCHITECT  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

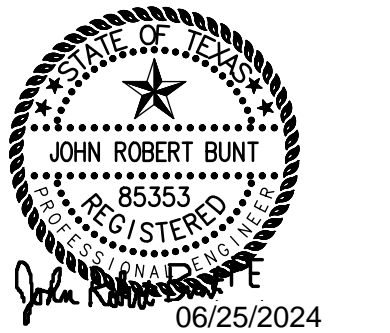
MEP  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368



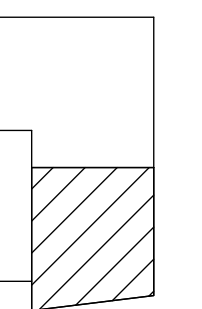
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

SEAL / SIGNATURE



KEY MAP



PROJECT STATUS

ISSUE FOR PERMIT

PROJECT NAME  
SUPER KIDS DENTAL

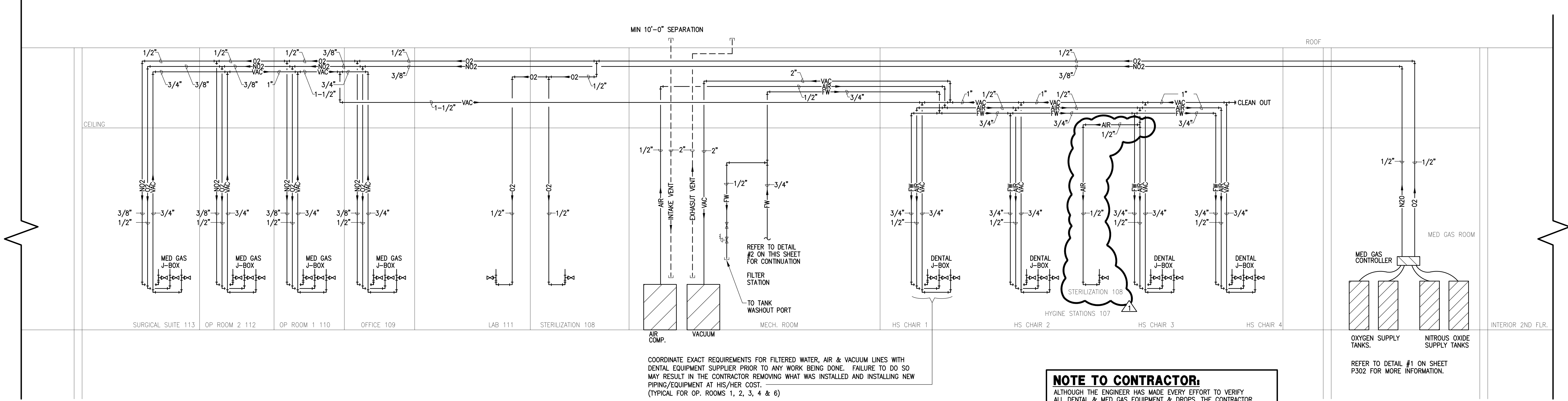
PROJECT ADDRESS  
6707 E RIVERSIDE DR., AUSTIN, TX 78741

PROJECT NUMBER  
24017

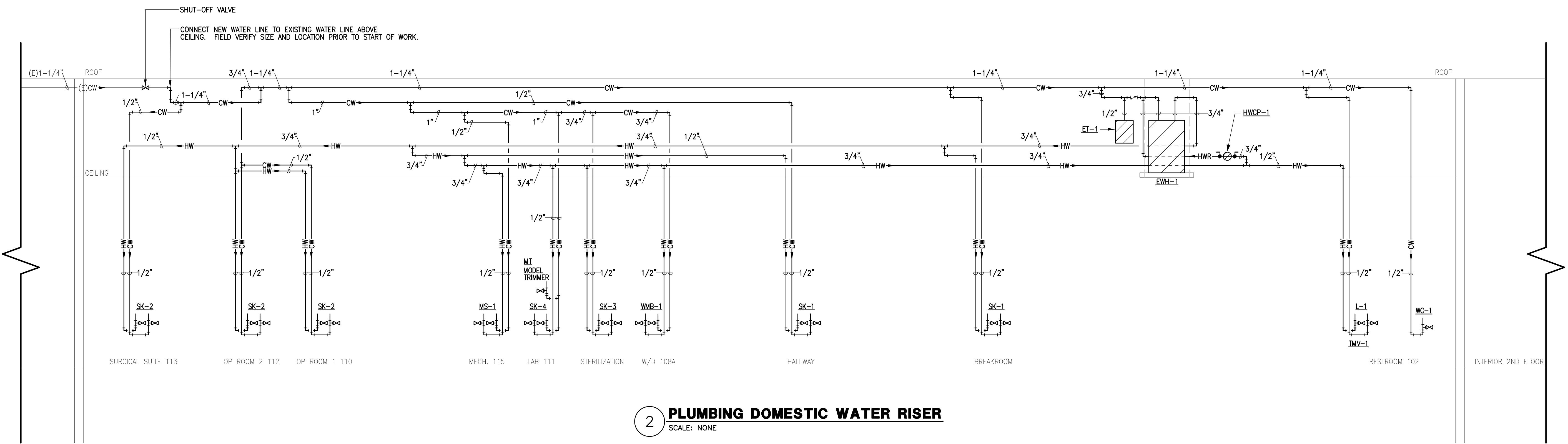
DATE  
06/25/24

PLUMBING RISER DIAGRAMS

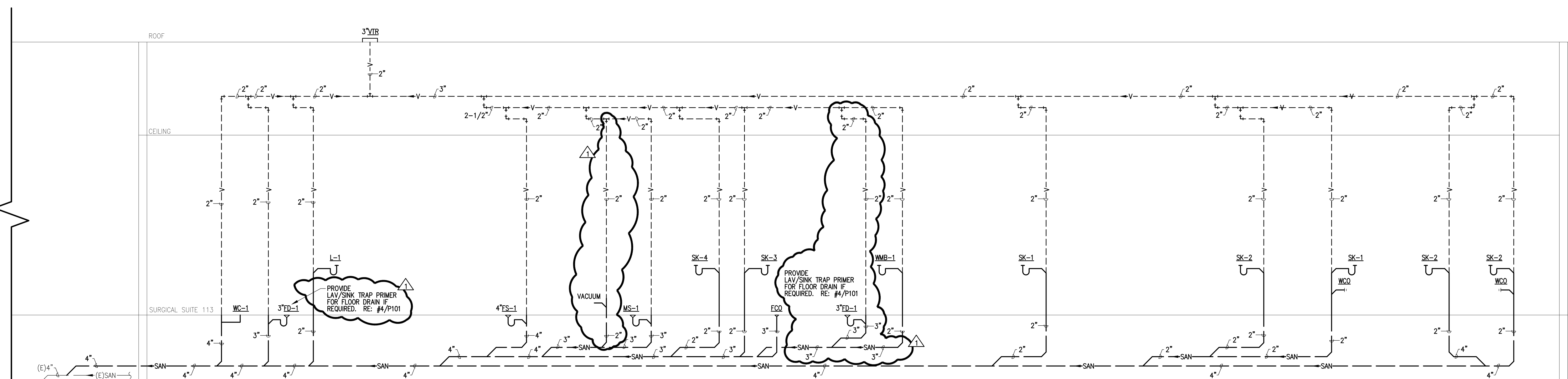
P201



3 PLUMBING DENTAL SYSTEMS RISER  
SCALE: NONE



2 PLUMBING DOMESTIC WATER RISER  
SCALE: NONE



1 PLUMBING WASTE & VENT RISER  
SCALE: NONE



## PLUMBING LEGEND

SYMBOL	DESCRIPTION
	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
	VENT PIPING ABOVE OR BELOW GRADE (V)
	FILTERED WATER PIPING (FW)
	VACUUM PIPING (VAC)
	COMPRESSED AIR PIPING (AIR)
	OXYGEN PIPING (O2)
	NITROUS OXIDE PIPING (NO2)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
	FIRE PROTECTION WATER PIPING (FIRE)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	GAS PLUG VALVE (GPV)
	HORIZONTAL SWING CHECK
	UNION
	Y-STRAINER
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RFP)
	PIPING DOWN
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	REFER TO KEYED NOTE
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER
	ACCESS PANEL LOCATION SYMBOL
	SHOCK ABSORBER WITH ACCESS PANEL
	AIR CHAMBER
	EXISTING
	CONNECT NEW TO EXISTING
	INVERT ELEVATION
	QUARTER OF AN INCH SLOPE
	1/8TH OF AN INCH SLOPE
	1/16TH OF AN INCH SLOPE
	DELTA CHANGE SYMBOL
	RISER FLAG

NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT.

## PLUMBING SCOPE & SPECIFICATION

THE WORK OF THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO:

- A DOMESTIC HOT AND COLD WATER DISTRIBUTION SYSTEM TO SERVE ALL FIXTURES, AND EQUIPMENT.
- SANITARY SOIL WASTE AND VENT SYSTEMS TO SERVE ALL FIXTURES AND EQUIPMENT.
- NOT USED.

DRAWINGS ARE DIAGRAMMATIC, CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD, ADVISE OF MAJOR DISCREPANCIES. GUARANTEE LABOR AND MATERIALS FOR ONE YEAR. ADHERE TO ALL APPLICABLE LOCAL CODES AND REGULATIONS. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND PAY ALL FEES.

### VALVES

VALVES SHALL BE MANUFACTURED BY NIBCO, HAMMOND, POWELL, STOCKHAM, WATTS OR EQUIVALENT APPROVED BY THE ENGINEER. BALL VALVES SHALL HAVE CAST BRONZE BODY, BLOWOUT PROOF STEMS, FULL SIZE PORT, 316 STAINLESS STEEL TRIM, TEFLON SEAT AND SEAL, AND THRUST WASHERS. VALVES 2" AND SMALLER SHALL BE NIBCO 1-585-70-66 OR APPROVED EQUIPMENT.

### UNIONS

UNIONS IN COPPER OR BRASS LINES SHALL BE BRASS, THREADED PATTERN UNIONS.

### EXCAVATION

EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH. CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE. EXCAVATE 6" BELOW GRADE, FILL WITH BEDDING MATERIAL (SAND) AND TAMP WELL. LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. PROVIDE ASSURANCE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

### BACKFILL

BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED AND APPROVED. USE SUITABLE FRABLE SOILS AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS. PLACE BACKFILL MATERIAL IN UNIFORM LAYERS, 8" MAXIMUM LOOSE MEASURE, COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

### PLUMBING PIPING HANGER SPACING

MAXIMUM SPACING SHALL BE 10 FOOT.

### CLEANING, TESTING AND ADJUSTING

THIS CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, INSTRUCTIONS, AND SUPERVISION REQUIRED FOR THE PERFORMANCE OF ALL TESTS, CLEANING, AND MAKING NECESSARY ADJUSTMENTS TO OPERATION OF ALL FIXTURES AND EQUIPMENT.

### PIPING INSULATION

ALL COLD & HOT WATER PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1-1/2" WALL THICKNESS FIBERGLASS PIPE INSULATION, OR AN APPROVED EQUAL HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD.

PIPE INSULATION SHALL BE INSTALLED ACCORDING TO THE PROCEDURES OUTLINED BY THE MANUFACTURER.

FITTING COVER INSULATION SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. SWEAT FITTINGS SHALL BE INSULATED WITH MITER CUT PIECES OF FIBERGLASS PIPE INSULATION THE SAME SIZE AS ON ADJACENT PIPING. THREADED FITTINGS SHALL BE INSULATED WITH SLEAVED FITTING COVERS. FABRICATED FROM MITER CUT PIECES OF FIBERGLASS PIPE INSULATION ACCORDING TO THE MANUFACTURER'S SLEEVING SIZE RECOMMENDATIONS AND SHALL BE OVERLAPPED 2" AND SEALED TO THE ADJACENT PIPE INSULATION. ALL VALVES SHALL BE INSULATED WITH CUT PIECES OF FIBERGLASS PIPE INSULATIONS. ALL JOINTS AND MITER CUT PIECES ARE TO BE SEALED PER MANUFACTURER'S RECOMMENDATIONS.

SUPPORTING HANGERS SHALL BE DESIGNED TO RESIST COMPRESSION; SUPPORTING DEVICES SUCH AS SHORT WOOD DOWELS OR WOOD BLOCKS SHALL BE USED IN COMBINATION WITH GALVANIZED SHEET METAL HANGER SHIELDS. THE WOOD SUPPORTING DEVICES SHALL BE THE SAME THICKNESS AS THE INSULATION AND SEALED TO THE INSULATION WITH FACTORY APPROVED CONTACT ADHESIVE.

INSTALL THERMAL INSULATION ON CLEAN, DRY SURFACES AFTER ALL TESTING AND INSPECTION IS COMPLETED. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND WITH MANUFACTURER'S INSTRUCTIONS.

## PIPE MATERIAL LIST

### DOMESTIC WATER PIPING

ABOVE SLAB INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL SHALL BE 99.8% LEAD FREE AND COMPLIANT WITH THE "SAFE WATER DRINKING ACT". THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED. PEX TUBING CONFORMING TO ALL STANDARD APPLICABLE CODE REQUIREMENTS FOR COMMERCIAL APPLICATIONS IS APPROVED AS ALTERNATE TO COPPER.

BELOW SLAB SHALL BE ASTM B 88 TYPE K COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. ALL JOINTS SHALL BE BRAZED.

### CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE

TYPE M COPPER TUBING UP TO 1" ID, TYPE DW TUBING AND COPPER FITTINGS FOR 1-1/4" AND LARGER SIZES, AND 95-5 SOLDER JOINTS. PEX TUBING CONFORMING TO ALL STANDARD APPLICABLE CODE REQUIREMENTS FOR COMMERCIAL APPLICATIONS IS APPROVED AS ALTERNATE.

ABOVE SLAB INSIDE BUILDING SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS. IN AIR SUPPLY OR RETURN PLENUMS, AND/OR WHERE FIRE RATED WALLS, PARTITIONS, OR FLOORS ARE PENETRATED, CONTRACTOR SHALL PROVIDE NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75.

BELOW SLAB SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS.

VACUUM PIPING SHALL BE PIPE SHALL BE SEAMLESS TYPE K OR L (ASTM B819) HARD TEMPER COPPER TUBING, COMPLY WITH NFPA 99, CHAPTER 6. PIPING SHALL BE PRECLEANED AND PLUGGED BY SUPPLIER BEFORE SHIPMENT TO THE JOB SITE.

FITTINGS SHALL BE WROUGHT COPPER, BRASS OR BRONZE DESIGNED EXPRESSLY FOR BRAZED CONNECTION.

OR IF LOCAL CODE AND MANUFACTURE ALLOWED PIPE CAN BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS. IN AIR SUPPLY OR RETURN PLENUMS, AND/OR WHERE FIRE RATED WALLS, PARTITIONS, OR FLOORS ARE PENETRATED, CONTRACTOR SHALL PROVIDE NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75.

MAIN TRUNK LINES MUST HAVE A MINIMUM SLOPE OF 1/4" PER 10' TOWARD THE PUMP.

### MEDICAL AIR, OXYGEN, NITROUS OXIDE GAS PIPING

PIPE SHALL BE SEAMLESS TYPE K OR L (ASTM B819) HARD TEMPER COPPER TUBING OR STANDARD WEIGHT SCHEDULE 40 BRASS PIPE; NFPA 56F. PIPING SHALL BE PRECLEANED AND PLUGGED BY SUPPLIER BEFORE SHIPMENT TO THE JOB SITE.

FITTINGS SHALL BE WROUGHT COPPER, BRASS OR BRONZE DESIGNED EXPRESSLY FOR BRAZED CONNECTION.

## ELECTRIC WATER HEATER

ITEM NO.	TOTAL KW INPUT	GALS. PER HR. RECOVERY RATE @87° RISE	STORAGE CAPACITY (GALLONS)	ELECTRICAL REQUIRED	STORED WATER TEMP	MANUFACTURER COMMENT
EWH-1	4.5	23.0	47.0	208V, 1#	140°	RHEEM ELDS50

### NOTES:

- PROVIDE HOT WATER EXPANSION TANK DOWNSTREAM OF CHECK VALVE ON COLD WATER SUPPLY. THERM-X-TROL ST-5.

## HOT WATER CIRCULATION PUMP

ITEM NO.	PUMP TYPE	FLOW RATE (GPM)	HEAD (FT)	ELECTRICAL REQUIRED	MOTOR (HP)	MANUFACTURER / MODEL
HWCP-1	IN-LINE	10	35.0	120V, 1#	1/8	TACO / 009-SF5-IFC

### NOTES:

- PUMP SHALL BE LEAD-FREE AND COMPLIANT WITH THE "SAFE DRINKING WATER ACT".
- MOUNT PUMP IN AN ACCESSIBLE LOCATION.
- PUMP SHALL RUN ONLY DURING OCCUPIED HOURS. PLUMBING CONTRACTOR SHALL PROVIDE TIME-CLOCK FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
- PROVIDE ADJUSTAT ON HOT WATER RETURN LINE, WREED TO START CIRCULATING PUMP WHEN LINE WATER TEMPERATURE DROPS 10° BELOW DESIRED HOT WATER LOOP TEMPERATURE.

## THERMOSTATIC MIXING VALVES

ITEM NO.	INLET HOT WATER TEMP (°F)	OUTLET MIXED WATER TEMP (°F)	MINIMUM FLOW (GPM)	DESIGN FLOW (GPM)	PRESSURE DROP @ DESIGN FLOW (PSI)	VALVE FINISH	MANUFACTURER / MODEL NO.
TMW-1	140°	110°	0.5	4	5.0	ROUGH BRONZE	WATTS LFMMV SERIES

### NOTES:

- MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE PIPE INCREASERS AND/OR VALVES AS REQUIRED.

## SHOCK ARRESTORS

P.D.I. SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	SWEAT CONNECTION
A	1-11	9-5/8"	1/2"
B	12-32	11-3/4"	3/4"
C	33-60	14-11/16"	1"
D	61-113	12-3/8"	1"
E	114-154	15-3/8"	1"
F	155-330	17-3/8"	1"

## FIRE SPRINKLER SYSTEM

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE MODIFICATION OF AN AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEM WITH THE ATTENDANT CAREWORKER FOR THE ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE GOVERNING BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLER'S RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

E. SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA FOR APPLICABLE FIRE PROTECTION SYSTEMS. CONFORM TO ASTM A53 AND A120. PROVIDE PIPING WITH MALLEABLE IRON, CAST IRON, STEEL WELDED OR SCREWED FITTINGS. VICTAULIC GROOVED FITTINGS MAY BE USED ABOVE GRADE IN ACCESSIBLE LOCATIONS ONLY.

F. DESIGN DRAWINGS MUST BE SUBMITTED TO THE LOCAL FIRE DEPARTMENT JURISDICTION FOR REVIEW AND APPROVAL. EVIDENCE OF SUCH REVIEW AND APPROVAL SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SYSTEM INSTALLATION.

G. NOTIFY THE LANDLORD'S REPRESENTATIVE AT LEAST 24 HOURS PRIOR TO ANY FIRE SPRINKLER WORK. CONTRACTOR WILL BEAR ANY CHARGES ASSOCIATED WITH FALSE ALARMS. THE SYSTEM MUST BE RECHARGED AND OPERATIONAL AT THE END OF THE WORK DAY.

## PLUMBING FIXTURE SCHEDULE

PLAN MARK	WASTE /TRAP	VENT	CW	HW	DESCRIPTION
WC-1	4"	2"	3/4"	--	WATER CLOSET. KOHLER: K-3999 (T.A.S. COMPLIANT). FLOOR MOUNTED, WHITE VITREOUS CHINA, ELONGATED BOWL WITH CLOSE-COUPLED TANK AND BOLT COVERS, 16-1/2" HIGH, FULLY GLAZED 2-1/8" TRAYWAY, 1.28-GPF, 12" ROUGH-IN. TANK TO BE CONFIGURED WITH TRIP LEVER LOCATED ON LEFT SIDE OR ON RIGHT SIDE IN ORDER TO MEET T.A.S. REQUIREMENT THAT FLUSH CONTROLS BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. TOILET SEAT: KOHLER: K-4636 ELONGATED OPEN FRONT WHITE QUITE-CLOSE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. SUPERSESS: MCGUIRE LF2166. 1/2" I.P.S. X 3/8" O.D. CHROME PLATED WHEEL HANDLE STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER.
L-1	2"	2"	1/2"	1/2"	LAVATORY: KOHLER K-2007-0 (T.A.S. COMPLIANT) WALL MOUNTED, WHITE VITREOUS CHINA, NOMINAL 19" X 17" OVAL BOWL WITH CONCEALED FRONT OVERFLOW. FAUCET: KOHLER K-13466-CP BRASS CONSTRUCTION (2) AAA BATTERY POWER SUPPLY WITH TOUCHLESS LAVATORY FITTING. 6-3/4" SPOUT, VANDAL RESISTANT, 0.5 GPM. CHROME PLATED BRASS FLAT GRID STRAINER, WITH 1-1/2" X 4" 20 GAUGE GAUGE TAILPIECE. MCGUIRE 152.
SK-1	2"	2"	1/2"	1/2"	SINK: KARRAN UJ218 UNDERMOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL, 24" X 18" X 9" DEEP, SINGLE COMPARTMENT WITH DRAIN OUTLET OFF-CENTER TO REAR OF BASIN. FAUCET: AMERICAN STANDARD STUDIO S 7106-801 TWO-HANDLE WIDESPREAD LAVATORY FAUCET. COORDINATE WITH ARCHITECT FOR ADDITION OF SOAP DISPENSER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.
SK-2	2"	2"	1/2"	1/2"	SINK: KARRAN UJ1515 UNDERMOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL, 14.5" ROUND X 6" DEEP, SINGLE COMPARTMENT WITH DRAIN OUTLET OFF-CENTER TO REAR OF BASIN. FAUCET: AMERICAN STANDARD STUDIO S PULL-DOWN BAR FAUCET 4803410 STAINLESS STEEL SINGLE HANDLE. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.
SK-3	2"	2"	1/2"	1/2"	STERILIZATION SINK SPECIFIED BY DENTAL CONSULTANT, PROVIDED AND INSTALLED BY CONTRACTOR. FAUCET SPECIFIED BY DENTAL CONSULTANT, PROVIDED AND INSTALLED BY CONTRACTOR.
SK-4	2"	2"	1/2"	1/2"	SINK: KARRAN UJ218 SAME AS TYPE SK-1 EXCEPT WITH DIFFERENT FAUCET. FAUCET: KRABBS "BOLDEN" RICE-1510SS OR APPROVED EQUAL SINGLE HANDLE 1.8 GPM SINGLE HOLE PRE-RINSE PULL DOWN FAUCET. COORDINATE WITH OWNER PRIOR TO ORDER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE.
MS-1	3"	2"	3/4"	3/4"	MOP SINK: FIAT PRODUCTS: MSB-2424. MOP SINK BASIN, 24" X 24" X 10" HIGH, MOLDED STONE, AND GRID STRAINER DRAIN. PROVIDE STAINLESS STEEL WALL GUARDS IN QUANTITY AS REQUIRED TO PROTECT ADJACENT WALLS. FAUCET: FIAT PRODUCTS 830-AA WALL MOUNTED 26" ABOVE TOP EDGE OF BASIN, ALL BRASS SUPPLY FAUCET, 10" SPOUT WITH WALL BRACE AND PALM HOOK, 3/4" MALE HOSE THREADED OUTLET AND VACUUM BREAKER, LEVER HANDLES, INTERGRAL STOP ARMS, WALL FLANGES, 1/2" FEMALE THREADED INLETS AND ADJUSTABLE CENTERS. WALL GUARD: FIAT PRODUCTS: MSB-2424. MSB-2424 IS WALL MOUNTED ABOVE MOP SINK ON PLAN NORTH AND EAST WALLS. COORDINATE WITH ARCH/OWNER.
WMB-1	2"	2"	1/2"	1/2"	WASHING MACHINE BOX: SIOUX CHIEF 688 SERIES WASHING MACHINE WATER SUPPLY AND DRAIN BOX, WHITE PLASTIC BOX AND FLANGE WITH 2" CENTER DRAIN OUTLET, CHROME PLATED QUARTER TURN ADAPTER BALL VALVES WITH 1/2" WATER CONNECTIONS. NOTE TO CONTRACTOR - NO STANDOFF RECEPTOR FOR ANY CLOTHES WASHER SHALL EXTEND MORE THAN THIRTY (30) INCHES, NOR LESS THAN EIGHTEEN (18) INCHES ABOVE ITS TRAP. NO TRAP FOR ANY CLOTHES WASHER STANDOFF RECEPTOR SHALL BE INSTALLED BELOW THE FLOOR, BUT SHALL BE ROUGHED IN NOT LESS THAN SIX (6) INCHES AND NOT MORE THAN EIGHTEEN (18) INCHES ABOVE THE FLOOR.
RVB-1	--	--	1/2"	--	REFRIGERATOR VALVE BOX: SIOUX CHIEF 696-6101XOF REFRIGERATOR VALVE BOX, 7-1/4" X 5-3/4" X 3-1/2" ABS OUTLET BOX, 1/4" OUTLET CONNECTION. SUPPLY CONNECTION TO BE SELECTED BY CONTRACTOR (X) = (C = 1/2" MALE CPVC, M = 1/2" MP/F-SWT P = 1/2" MALE SWEAT/PRESS/PUSH, V = VIEGA PUREFLOW PEX, W = 1/2" PEX F1960 GRIP, X = 1/2" PEX F1807/F2159 CRIMP)
FD-1	3"	2"	--	--	FLOOR DRAIN: SIOUX CHIEF 832-36P-SR-V PVC BODY WITH 6.5" ROUND STAINLESS STEEL GRATE, ALLOWS ADJUSTMENT BEFORE AND AFTER THE CONCRETE POUR. TRAP PRIMER PORT SHALL BE THREADED 1/2" FIP FOR OPTIONAL CONNECTION. STRAINER WITH VANDAL PROOF SCREWS.
FS-1	4"	2"	--	--	FLOOR SINK: SIOUX CHIEF 861-4-PZ-W-3-V BOTTOM OUTLET STAINLESS STEEL 12" SQUARE STAINLESS STEEL 3/4" GRATE AND RIM, ANCHOR FLANGE, 6-3/8" DEEP SUMP WITH PVC INTERIOR, STAINLESS STEEL MESH DEBRIS STRAINER WITH VANDAL PROOF SCREWS.
WCO	REFER TO PLANS	--	--	--	WALL CLEANOUT: SIOUX CHIEF 873-V 20 GAUGE 430 STAINLESS STEEL KIT SHALL INCLUDE A REMOVABLE STAINLESS STEEL ACCESS COVER, WHICH SHALL FASTEN WITH A STAINLESS STEEL SCREW TO A CAST BRASS CLEANOUT PLUG. PLUG SHALL BE TAPPED TO ACCEPT SCREW. KIT SIZE TO BE SELECTED BY CONTRACTOR (240 = 2" PLUG WITH 4" COVER, 350 = 3" PLUG WITH 5" COVER & 460 4" PLUG WITH 6" COVER.)
FCO	REFER TO PLANS	--	--	--	FLOOR CLEANOUT: SIOUX CHIEF 851-4-X-N-V STAINLESS FINISHED CLEANOUT SHALL HAVE A SCH. 40 HUB CONNECTION, WHICH CONFORMS TO ASTM D2665 (PVC). CONNECTION TO DRAINAGE SYSTEM SHALL BE MADE WITH A SOLVENT WELD JOINT TO PVC PIPE. CLEANOUT COVER SHALL MEET APPLICABLE LOAD REQUIREMENTS FOR INTENDED USE. CLEANOUT SHALL INCLUDE A SLOTTED, POLYPROPYLENE CLEANOUT PLUG, WITH THREADED BRASS INSERT TO ACCEPT COVER SCREW. CONNECTION SIZE TO BE SELECTED BY CONTRACTOR X = (3 = 3" SCH.40 HUB, 4 = 4" SCH.40 HUB & 6 = 6" SCH.40 HUB.) ADD OPTION C FOR CARPET MARKER.

NOTE: 1. CONTRACTOR SHALL VERIFY ALL PLUMBING FIXTURES SELECTIONS & FINISHES WITH OWNER/ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.

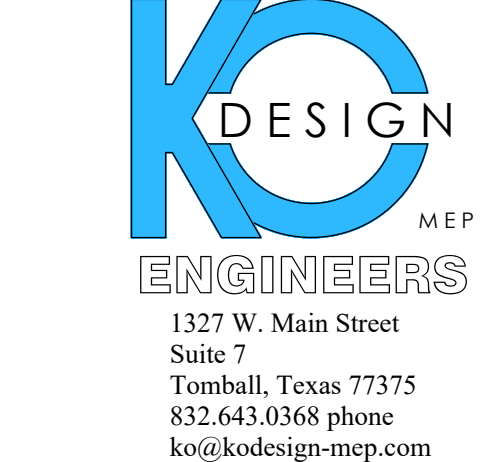


### PROJECT TEAM

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

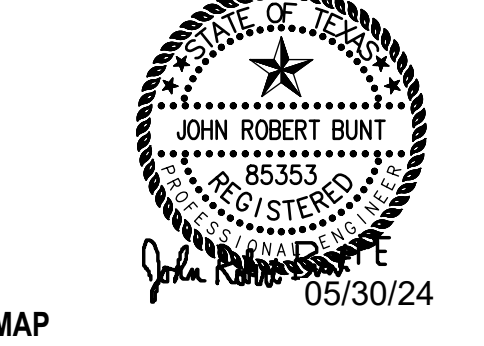
**MEP**  
K.O. DESIGN  
1327 W MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368



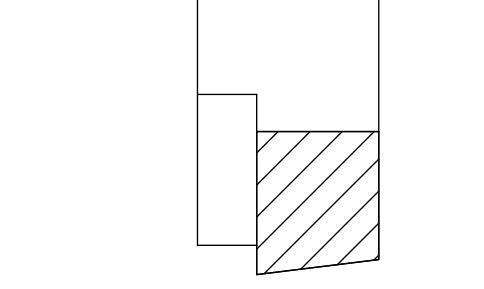
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE

### SEAL / SIGNATURE



### KEY MAP



### PROJECT STATUS

ISSUE FOR PERMIT

### PROJECT NAME

SUPER KIDS DENTAL

### PROJECT ADDRESS

6707 E RIVERSIDE DR

# Cat 3-Dental

NFPA 99 (2012ed)-Category 3 Piped Gas Systems:  
Sedation levels limited to minimal/light & moderate/medium sedation, NO ANESTHESIA.  
Patients remain conscious & "capable of self-preservation".  
Appointments are "Elective"...  
Patients may NOT be kept overnight.  
Systems serving occupancies where interruption of the piped medical gas would terminate procedures but would not place patients at risk of morbidity or mortality." (PIP)

## Confirm Compliance to NFPA Standard 99(2015 Edition)

Manifold Systems comply with requirements for Category 3, Non-Flammable Medical Gas Systems established by the National Fire Protection Association NFPA 2012 99.5.3.6  
Confirmed code to year 2015...

### Category 3 Non-Flammable Medical Gas Systems (ref. 2015 99.5.3)

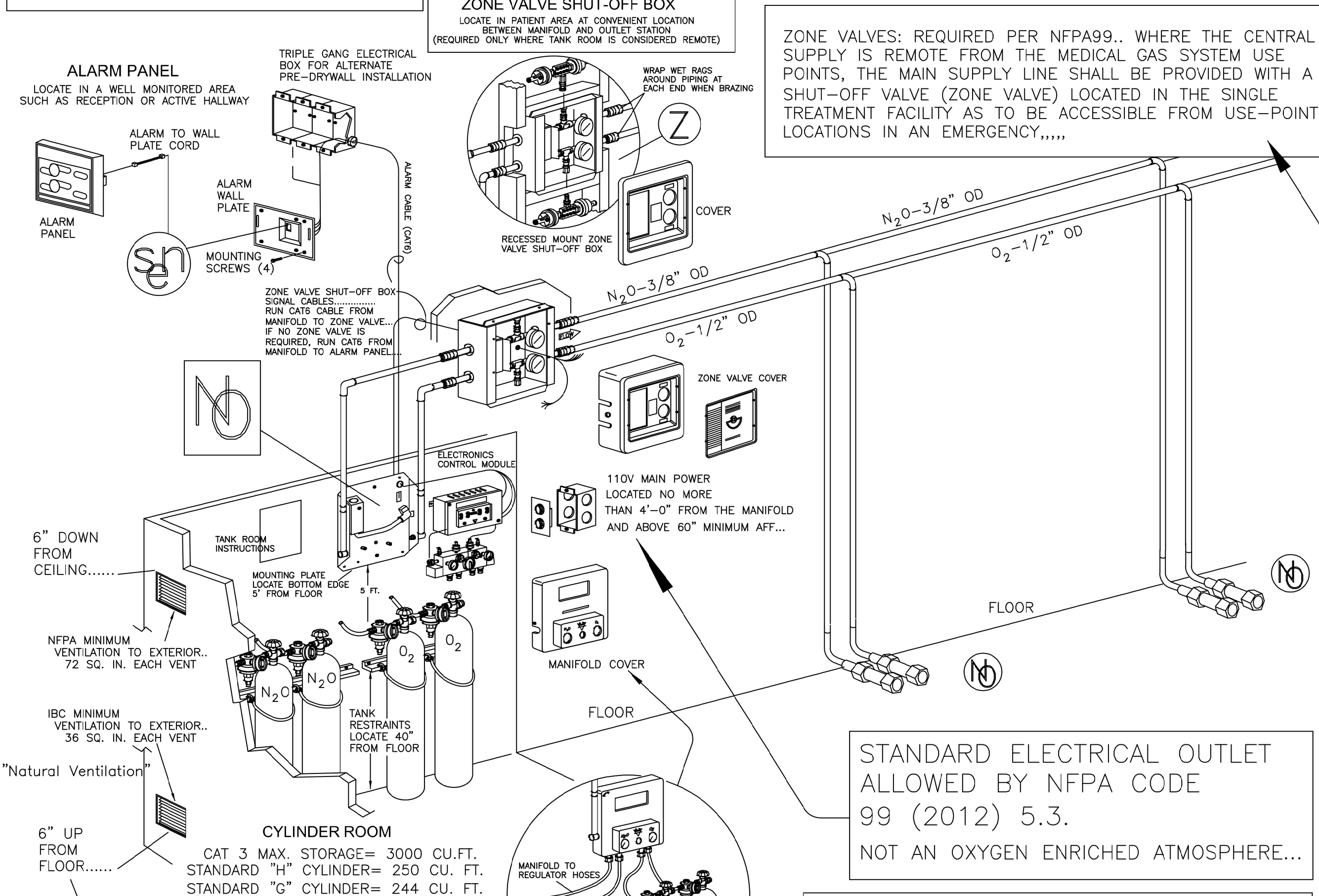
- Have not more than 3000 cu. ft. total capacity of all gases (excluding nitrogen and air) connected and in storage at one time.
  - Have a listed pressure regulator directly connected to each cylinder.
  - Supply either a single treatment facility.
  - Supply system storage location shall be provided with 2 louvered openings having a minimum of 72 square inches each... (IBC standards require 36 sq. inches each)
  - Supply system locations that are remote must be locked...
  - Where the central gas supply system is remote from the outlet stations, a zone valve (pressure sensitive shut-off valve) is required...
- Category 3 Medical Gas Piping (ref. 2015 99.5.1.10)**
- Piping to be annealed (soft temper) ASTM B819 (Type K or L) copper tubing that has been cleaned for oxygen service, and capped prior to installation.
  - Joints to be brazed without use of flux.
- TO PREVENT CROSS CONNECTION OF OXYGEN AND NITROUS OXIDE:**
- All oxygen tubing to be 1/2" O.D.
  - All nitrous oxide tubing to be 3/8" O.D.
  - All vacuum tubing to be 5/8" O.D.
- While brazing, purge piping system with low flow oil-free dry nitrogen to prevent formation of copper oxide in the lines.
  - After brazing of all joints, pressurize piping system to 150 psig with oil-free dry nitrogen and leak test all joints by means of soapy water or other equally effective means of leak detection safe for use with oxygen.
  - Allow piping system to remain pressurized to 150 psig for 24 hours with source shut-off valve closed. Maximum allowable pressure loss is 5 psig.
  - Blow piping system clear with oil-free dry nitrogen.
  - Purge piping system with intermittent high flow oil-free dry nitrogen to remove particulate matter. Flow each outlet fully until purging produces no discoloration in a white cloth.
  - Cap piping system. No further brazing shall be performed.

### Category 3 Medical Gas Varifier (ref. 2015 99.5.3.12.1.2)

- Central Storage (ref. 2015 99.5.3.3.4)**
- Dental Air Supply System (ref. 2015 99.5.3.3.6.1)**
- Dental Vacuum System (ref. 2015 99.5.3.3.10)**
- Emergency Shutoff System (ref. 2015 99.5.3.4.1)**
- Emergency Shutoff System (ref. 2015 99.5.3.4.1)**
- Warning System (ref. 2015 99.5.3.9)**

**Only If Required by Code**

A MEDICAL GAS LICENSED PLUMBER MUST BE RESPONSIBLE FOR THE INSTALLATION OF THE CATEGORY 3 MEDICAL GAS SYSTEM.....  
PLUMBER MUST HAVE ASSE 6010 ACCREDITATION..  
VARIIFIER MUST HAVE ASSE 6030 ACCREDITATION..



ZONE VALVES: REQUIRED PER NFPA99.. WHERE THE CENTRAL SUPPLY IS REMOTE FROM THE MEDICAL GAS SYSTEM USE POINTS, THE MAIN SUPPLY LINE SHALL BE PROVIDED WITH A SHUT-OFF VALVE (ZONE VALVE) LOCATED IN THE SINGLE TREATMENT FACILITY AS TO BE ACCESSIBLE FROM USE-POINT LOCATIONS IN AN EMERGENCY....

STANDARD ELECTRICAL OUTLET ALLOWED BY NFPA CODE 99 (2012) 5.3.  
NOT AN OXYGEN ENRICHED ATMOSPHERE..

Confirmation Contact:  
Daniel Shoemaker...Accutron NFPA committee member...  
Wrote Standard NFPA M99 (2015) 5.3.1 Business phone: 623-780-2020.....

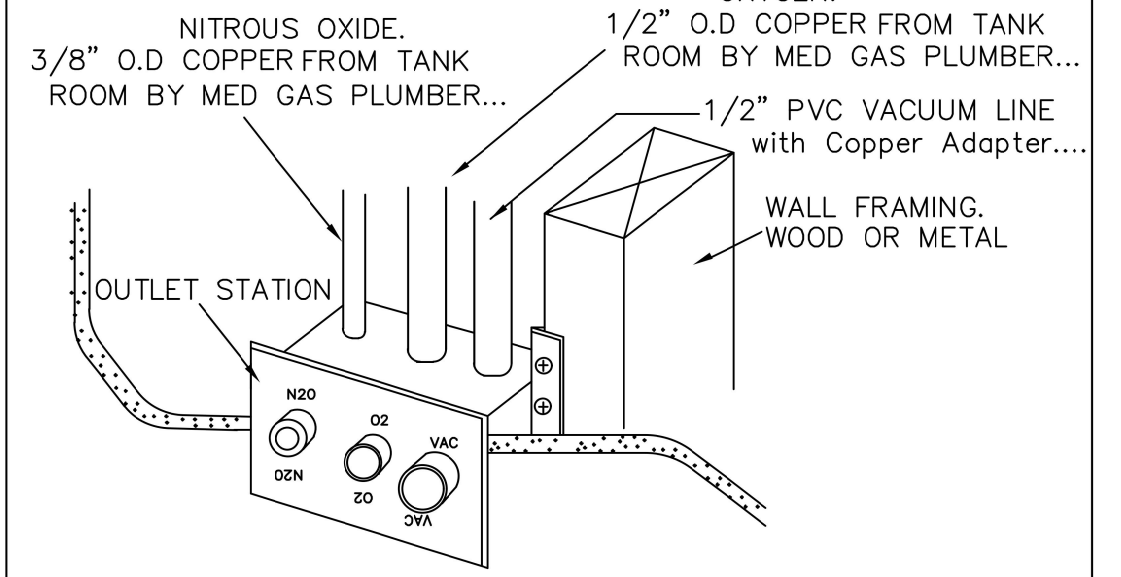
DENTAL CYLINDER SIZES:  
"E" CYLINDER....24 CUBIC FEET  
"M" CYLINDER....122 CUBIC FEET  
"G" CYLINDER....244 CUBIC FEET  
"H" OR "K" CYLINDER....250 CU.FT.

## Manifold and Alarm System Installation

### Category 3 Non-Flammable Medical Gas Systems (ref. 2015 99.5.3.10.1.6)

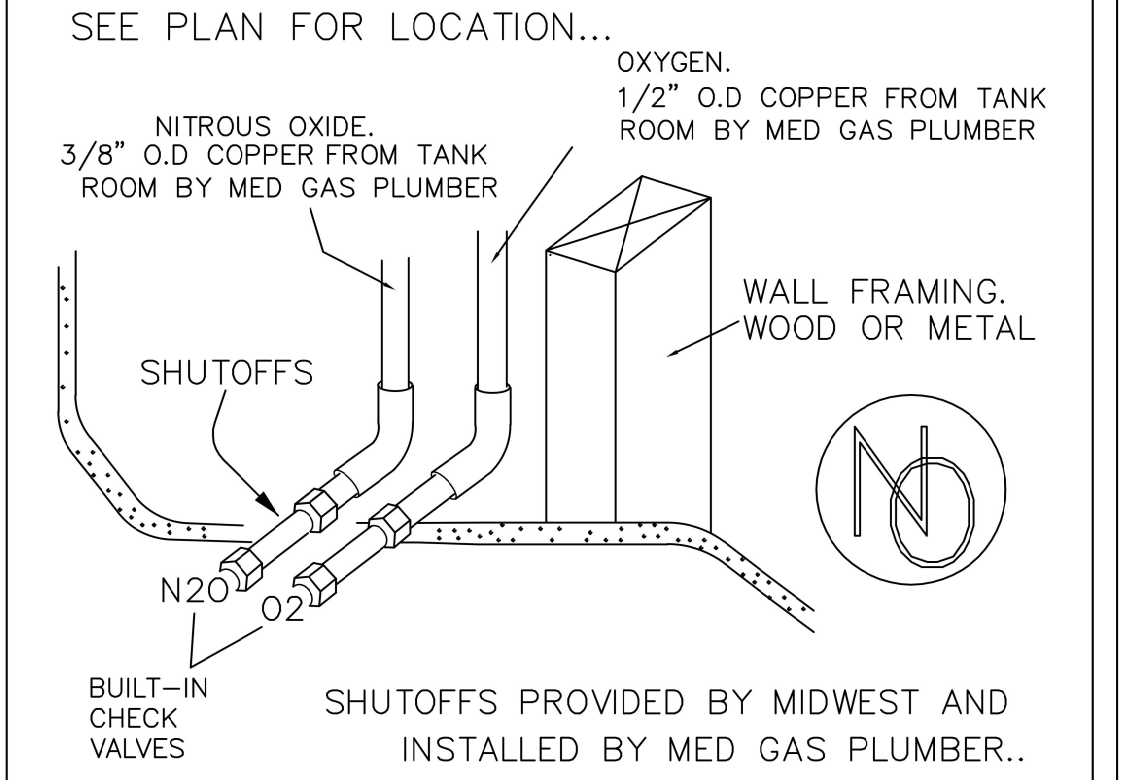
MED GAS PLUMBER TO CONFER WITH CITY CODE OFFICIALS TO DETERMINE VACUUM, DENTAL AIR, AND MED GAS LINE ROUTING.. TO RUN DENTAL GAS (AIR, NITROUS OXIDE, & OXYGEN) UNDER A SOLID CONCRETE FLOOR, REQUIRES A PVC SLEEVE SEPARATING THE COPPER LINE FROM ANY CONTACT WITH CONCRETE DUE TO THE NEGATIVE CHEMICAL REACTION BETWEEN THE TWO MATERIALS.. NFPA CLARIFICATION FOR 2015 PERMITS THE UNPROTECTED RUN OF DENTAL GAS IN FILL DIRT.. RESPONSIBILITY OF MEETING THESE CODES, BOTH WITH THE CITY AND WITH THE THIRD PARTY CERTIFICATION AUTHORITY REQUIRED BY THE STATE, WILL BE MET BY LICENSED MED GAS PLUMBER.....  
DIFFERENT OPTIONS ARE SHOWN WITH THESE PLANS TO ASSIST IN MEETING THE MECHANICAL NEEDS OF THE DENTAL EQUIPMENT AND LOCAL CODES...

### SEE PLAN FOR LOCATION...

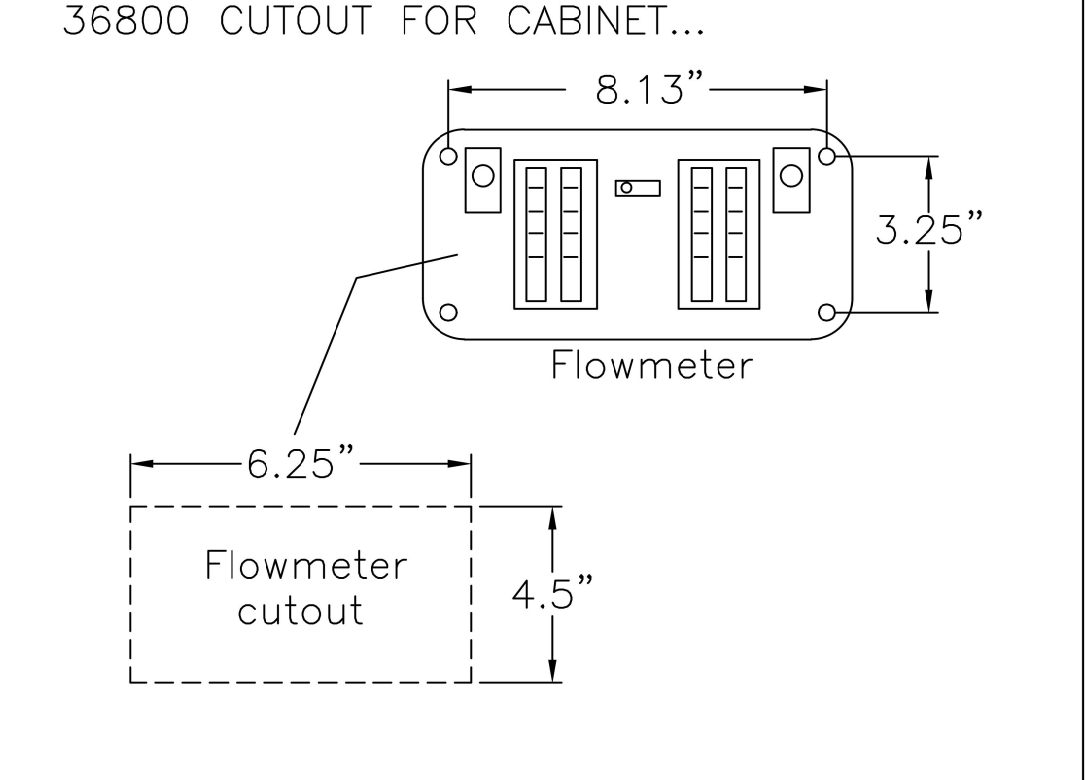


PROVIDED BY MIDWEST DENTAL SUPPLY AND INSTALLED BY MED GAS PLUMBER...  
N2O-O2-VAC "TRIPLE OUTLET STATION"

### "CHECK VALVE RISERS"



### ACCUTRON ULTRA PC FLOWMETER 36800 CUTOUT FOR CABINET...



**MidwestDental**  
EQUIPMENT • SERVICES • SUPPLIES

Some cities have adopted the following code: Contractor confirm with local municipality if this code is being enforced at time of construction...  
Confirm Compliance to NFPA Standard 99(2021 Edition) Chapter 15.4.2.6.1  
Chapter 15.4.2.6.1 "All (dental) medical gas systems shall have an emergency shutoff valve accessible from all use-point locations in an emergency."  
Thus... a Zone Valve will be required in the facility when the municipality has adopted this edition of the NFPA Standard 99 code...

PAGE 7 OF 7

**MIDWEST DENTAL**  
Equipment • Services • Supplies  
2429 109th Street  
Grand Prairie, Texas 75050  
Toll Free: 800 766 2025

**Dr. Asha Patel**  
TBD.  
Austin, TX 78727

Equipment Rep: Scott Jovich  
Date: April 19, 2024  
Drawn By: DDS  
Checked By: WC  
Architect: William Cruz, AIAA

**Dental Medical Gas**  
Scale: NOT TO SCALE

At this time, NFPA 2005, 2012, & 2015 are in use in North America...Consult with your local municipality to confirm which code(s) they have currently adopted...

**Use specs only for Symbols on Plan**

NITROUS OXIDE AND OXYGEN MANIFOLD location. Provide copper tubing per code and install continuously to MED GAS locations. Manifold supplied by Midwest, plumbing contractor to install per MFG. specs. Nitrous storage closet to be constructed per NFPA Guidelines. Installation by Medical Gas Certified plumber. Vent to NFPA code...NFPA 2012 99.5.3.6  
CONTRACTOR to install tank restraints provided with manifold per cut sheet & to NFPA code...

Nitrous oxide and oxygen "tubing", when run within floor slabs and underground, must be installed in one (or more) continuous conduit sleeves...No joints permitted within conduit...  
NFPA (2012) 99.5.3.5

NITROUS OXIDE & OXYGEN outlet location. Provide copper tubing per codes. NFPA 2012 99.5.3.6 Risers or Dual Outlet Station supplied by dental company... Contractor install per codes. Must be Medical Gas Certified Plumber....See cut sheets provided by Midwest Dental...

NITROUS OXIDE, OXYGEN & VACUUM outlet location. Provide copper piping per codes. Triple Outlet Station supplied by dental company. Med Gas plumber install per codes. Must be Medical Gas Certified... Oxygen & Nitrous Oxide=NFA 2012 99.5.3.6 Vacuum=NFA 99.5.3.8...

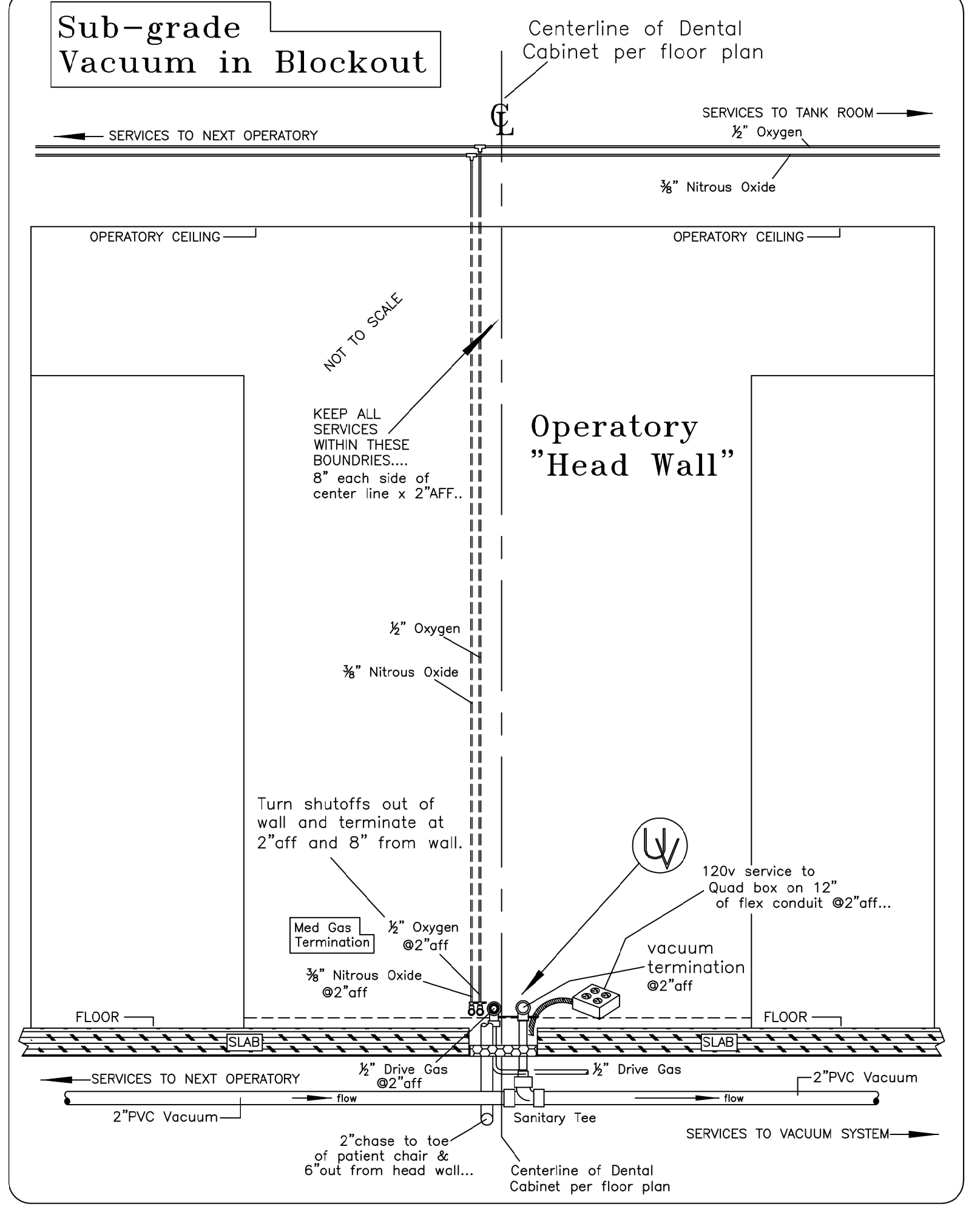
SENTINEL/ALARM system for med gas...Required by fire code... Measurement on plan is from finished floor to center of Sentinel box...  
Run special cable (Cat6, Ethernet4 twisted pr., RJ45 end connects) from tank room to sentinel/alarm location...  
Electrician to acquire above cable from Med Gas Plumber...  
Med Gas Manifold to be installed by Med Gas Licensed Plumber....

Electrician install:  
120v duplex in tank room no more than 4'-0" from manifold and above 60" from floor....  
\*\*Sentinel must be located at a point in the office where it can be continually visually monitored by staff during working hours...  
Confirm location approval with Med Gas third party certifiers.... \*\*\*

ZONE VALVE for nitrous oxide and oxygen with wiring per manufacturer's specifications. Valve provided by Midwest installed by med gas licensed plumber...  
Electrician provide cat6 or equal from Tank Room manifold to Zone valve... Z

CAT6 OR EQUAL CABLE RULLED BY ELECTRICIAN TO MANIFOLD IN TANK ROOM  
PROVIDED BY MIDWEST TO MED GAS PLUMBER & INSTALLED BY ELECTRICIAN  
SEE PLAN FOR LOCATION... CONFIRM WITH THIRD PARTY CERTIFIER...  
VERIFY CUTOUT  
MOUNTING FRAME

ZONE VALVE SHUT-OFF BOX  
OPTIONAL-CONFIRM NFPA FIRE CODE FOR MUNICIPALITY.....  
WRAP NET RACE AROUND PIPING AT EACH END WHEN BRAZING  
RECESSED MOUNT ZONE VALVE SHUT-OFF BOX  
COVER

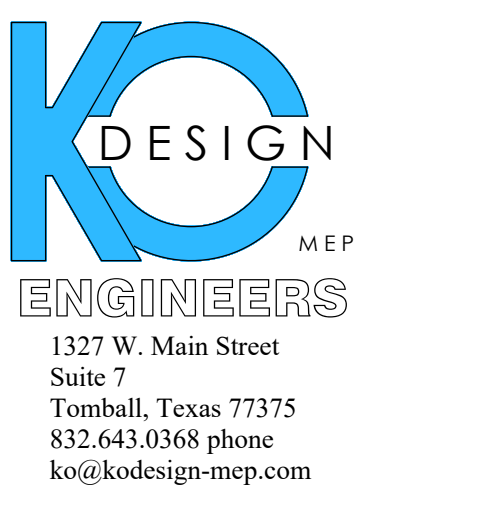


**PROJECT TEAM**

**OWNER**  
SUPER KIDS DENTAL  
2410 E RIVERSIDE DRIVE, SUITE 12-H  
AUSTIN, TX 78741  
www.superkidsaustin.com

**ARCHITECT**  
ELEMENT ARCHITECTS, LLC.  
1250 WOOD BRANCH PARK DR,  
SUITE 480  
HOUSTON, TX 77079  
(713) 874 0775  
www.ElementArchitects.com

**MEP**  
K.O DESIGN  
1327 W. MAIN STREET, SUITE 7  
TOMBALL, TX 77375  
(832) 643 0368



TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION #: F-9072  
EXPIRES: 31 MARCH 2025

#	DESCRIPTION	DATE
1	CITY OF AUSTIN RESPONSE #1	06/20/24

**SEAL / SIGNATURE**

**KEY MAP**

**PROJECT STATUS**  
ISSUE FOR PERMIT  
**PROJECT NAME**  
SUPER KIDS DENTAL  
**PROJECT ADDRESS**  
6707 E RIVERSIDE DR., AUSTIN, TX 78741  
**PROJECT NUMBER**  
24017  
**DATE**  
06/25/24

PLUMBING SPECIFICATIONS  
P402