Project:

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East, Building E
Englewood, CO 80112

Project Directory

Owner:

Dr. Patrick Smithwick, D.D.S.
16 Inverness Place East, Building E
Englewood, CO 80112
Phone: (443) 756-7119

Architecture/Interior Design:

Battista Design Group, P.C.
3650 Wadsworth Blvd.
Wheat Ridge, Colorado 80033
Phone: (303) 428-4895
Fax:(303) 428-5472

Mechanical-Plumbing Engineer:

Swanson-Levary Engineering
10080 E 112th Way
Henderson, Colorado 80640
Phone: (720) 737-1733

Electrical Engineer:

Rossi Engineering, Inc.
5376 South Gibraltar Court
Centennial, CO 80015
Phone: (303) 720-9827

General Contractor:

BVB General Contractors
Jon Burdick
1289 S. 4th Ave.,
Brighton, CO 80601
Phone: (303) 828-7722

Public Agencies

Building Department:

Arapahoe County Building Department
Lima Plaza
6924 S. Lima Street
Centennial, CO 80112
Phone:(720)-874-6600

Fire Department:

South Metro Fire District
9195 E Mineral Avenue
Centennial, CO 80112
Phone: (720) 989-2000

Gas-Electric:

Xcel Energy - Colorado
Builders Call Line
5460 W. 60th Avenue
Arvada, CO 80003
Phone: 1-800-628-2121
Fax: 1-800-628-2521
Hours 7:00 a.m. - 4:00 p.m.
E-mail: builders.call.line@xcelenergy.com

Water/Sanitation Districts:

Inverness Water and Sanitation District
58 Inverness Drive East, Suite 100
Englewood CO 80112
Phone: (303)-649-9857
Fax: (303)-414-0671

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3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net

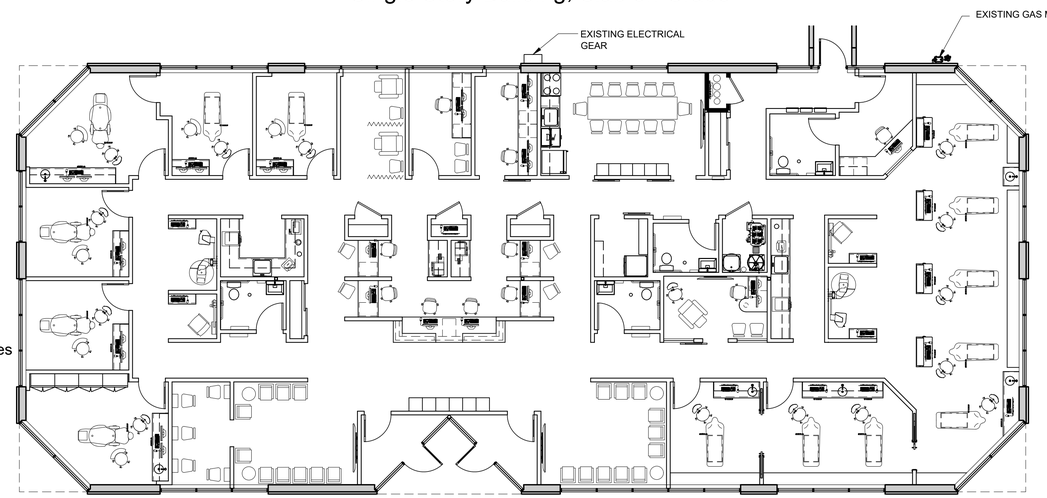
BATTISTA DESIGN GROUP

Vicinity Map

NOT TO SCALE

Building Key Plan

Single Story Building, Slab on Grade



May, 2025

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* ONLY COMPLETE SETS OF DRAWINGS TO BE DISTRIBUTED TO SUB-CONTRACTORS - DO NOT BREAK APART DRAWING SETS

NOTE:
FULL SUBMITTALS/SHOP DRAWINGS REQUIRED FROM ALL TRADES, SUBMIT ALL R.F.I.'S IN WRITING

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/09/2025
LICENSED ARCHITECT

Battista Design Group, P.C.
3650 Wadsworth Blvd.
Wheat Ridge, Colorado 80033
Phone: (303) 428-4895
Fax:(303) 428-5472

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GRAPHIC SYMBOLS

SYM	DESCRIPTION
A	COLUMN GRID LINE
A	COLUMN GRID LINE EXISTING
A1 / A501	WALL SECTION REFERENCE SECTION NUMBER DRAWING ON WHICH SECTION IS SHOWN
A1 / A301	EXTERIOR ELEVATION REFERENCE ELEVATION NUMBER DRAWING ON WHICH ELEV IS SHOWN
A1 / A201 — A1 / A201	BUILDING SECTION REFERENCE SECTION NUMBER DRAWING ON WHICH SECTION IS SHOWN
A1 / A601	DETAIL SECTION REFERENCE DETAIL NUMBER DRAWING ON WHICH DETAIL IS SHOWN
A1 / A102	DETAIL PLAN REFERENCE DETAIL NUMBER DRAWING ON WHICH DETAIL IS SHOWN
A201 / A1	INTERIOR ELEVATION REFERENCE ELEVATION NUMBER DRAWING ON WHICH ELEV. IS SHOWN
101	DOOR NUMBER
LOBBY 101	ROOM NAME ROOM NUMBER
℄	CENTER LINE
MATCH LINE	MATCH LINE
EL. XXX'-X"	VERTICAL ELEVATION MARK
A1 / 1/8" = 1'-0" NORTH ELEVATION	DRAWING TITLE/ REFERENCE
NORTH	NORTH ARROW
1	REVISION MARK
	SPECIFIC PLAN NOTE OR ACCESSORY TAG
A101	SHEET NUMBER
W1	WINDOW TYPE, BORROWED LIGHT TYPE OR LOUVER TYPE TAG
1	WALL OR PARTITION TYPE
	ONE HOUR RATED WALL / OPENINGS
	TWO HOUR RATED WALL / OPENINGS

MATERIALS

SYM	DESCRIPTION
	CONCRETE
	PRECAST CONCRETE (LARGE SCALE)
	STEEL
	WOOD FRAMING
	PLYWOOD
	RIGID INSULATION
	BATT INSULATION
	METAL STUD WALL
	GYPSUM WALLBOARD
	ACOUSTICAL TILE
	BRICK
	CONCRETE MASONRY UNITS

ABBREVIATIONS

A		FURN	FURNISH	RDG INS	RIGID INSULATION
AB	ANCHOR BOLT	FUT	FUTURE	REBAR	REINFORCED STEEL BAR
ACT	ACOUSTICAL TILE	FT	FOOT/FEET	REC	RECESSED
ADJ	ADJACENT/ ADJUSTABLE	FVC	FIRE VALVE CABINET	REF/REFR	REFERENCE
AFF	ABOVE FINISHED FLOOR	FTG	FOOTING	REFR	REFRIGERATOR
AFG	ABOVE FINISHED GRADE	FURG	FURRING	REINF	REINFORCED/REINFORCEMENT
AHU	AIR HANDLING UNIT	FURN	FURNISH	REM	REMOVE
ALUM	ALUMINUM	FUT	FUTURE	REQ'D	REQUIRED
ANOD	ANODIZED	FVC	FIRE VALVE CABINET	REV	REVISION
ALT	ALTERNATE NO.	G		RH	RIGHT HAND
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GA	GAGE	RL	ROOF LEADER
		GAL	GALLONS	RLG	RAILING
APPROX	APPROXIMATELY	GALV	GALVANIZED	RM	ROOM
APVD	APPROVED	GYP BD	GYPSUM BOARD	RO	ROUGH OPENING
ARCH	ARCHITECT	GYP SHTG	GYPSUM SHEATHING BOARD	ROW	RIGHT OF WAY
ASSY	ASSEMBLY	GC	GENERAL CONTRACTOR	RP	REFERENCE POINT
AUTO	AUTOMATIC/ AUTOMATION	GEN	GENERAL/GENERATOR	RTG	RATING
AVG	AVERAGE	GI	GALVANIZED IRON	RTU	ROOF TOP UNIT
AWI	AMERICAN WOODWORKING INSTITUTE	GL	GLASS	RVL	REVEAL
		GLZ	GLAZING		
AWT	ACOUSTICAL WALL TREATMENT	GND	GROUND	S	
		H		S	SOUTH
B		HC	HANDICAPPED ACCESSIBLE / HOLLOW CORE	SALV	SALVAGE
B/B	BACK TO BACK			SAN	SANITARY
BD	BOARD	HD	HEAD	SB	SPLASH BLOCK
BLDG	BUILDING	HDW	HARDWARE	SCHD	SOLID CORE WOOD DOOR
BLKG	BLOCKING	HDWD	HARDWOOD	SCHED	SCHEDULE/SCHEDULED
BLST	BALLAST	HM	HOLLOW METAL	SCHEM	SCHEMATIC
BM	BEAM/BENCH MARK	HT	HEIGHT	SEC	SECOND
BOS	BOTTOM OF STEEL	HORIZ	HORIZONTAL	SECT	SECTION
BOT	BOTTOM	HP	HIGH POINT/HORSEPOWER	SF	SQUARE FOOT/FEET
BRG	BEARING	HVAC	HEATING VENTILATION AND AIR CONDITIONING	SGL	SINGLE
BSMT	BASEMENT			SHT	SHEET
BTWN	BETWEEN	HWH	HOT WATER HEATER	SHT MTL FLASH	SHEET METAL FLASHING
BUR	BUILT UP ROOFING	HW	HOT WATER		
C				SHTHG	SHEATHING
CB	CATCH BASIN	IBC	INSTALLED BY CONTRACTOR	SIM	SIMILAR
CBB	CEMEMTITOUS BACKER BOARD	ID	INSIDE DIAMETER	SLNT	SEALANT
C/C	CENTER TO CENTER	ID	INTERIOR DESIGN	SM	SURFACE MOUNTED/SMALL
CAB	CABINET	INV EL	INVERT ELEVATION	SM	SHEET METAL
CB	CATCH BASIN	IF	INSIDE FACE	SMACNA	SHEET METAL AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
CEM	CEMENT	IN	INCHES		
CEM PLAS	CEMENT PLASTER	INCAND	INCANDESCENT	SPLY	SUPPLY
CER	CERAMIC	INCL	INCLUDING	SPEC	SPECIFICATION(S)
CF	CUBIC FOOT/FEET	INSTL	INSTALL	SPRT	SUPPORT
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	INSUL	INSULATE/INSULATION	SQ	SQUARE
		INT	INTERIOR/INTERNAL	SST	STAINLESS STEEL
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED	INV	INVERT	STC	SOUND TRANSMISSION CLASS
		J		STD	STANDARD
CFLG	COUNTER FLASHING	JAN	JANITOR	STL	STEEL
CF/MF	COLD FORMED METAL FRAMING	J BOX	JUNCTION BOX	STL JST	STEEL JOIST
		JAN CLO	JANITOR CLOSET	STOR	STORAGE
CG	CORNER GUARD	JT	JOINT	STRUCT	STRUCTURAL
CIP	CAST IN PLACE	K		SURF	SURFACE
CJ	CONTROL JOINT/ CONSTRUCTION JOINT	KIT	KITCHEN	SUSP	SUSPENDED
		L		SYMM	SYMMETRICAL
CL	CENTERLINE	LAB	LABORATORY	T	
CLG	CEILING	LAM	LAMINATE	T	TREAD
CLOS	CLOSET	LAV	LAVATORY	T & B	TOP AND BOTTOM
CLR	CLEAR	LBS	POUNDS	T&G	TONGUE AND GROOVE
CLT	CLEAT	LF	LINEAR FEET	TBD	TO BE DETERMINED
CMU	CONCRETE MASONRY UNIT	LH	LEFT HAND	TEL	TELEPHONE
CO	CLEAN OUT	LLH	LONG LEG HORIZONTAL	TEMP	TEMPERATURE/TEMPORARY
COL	COLUMN	LLV	LONG LEG VERTICAL	TERR	TERRAZZO
CONC	CONCRETE	LPT	LOW POINT	THK	THICK
COND	CONDITION	LT	LIGHT	THRES	THRESHOLD
CONST	CONSTRUCTION	LTG	LIGHTING	THRU	THROUGH
CONT	CONTINUE/CONTINUATION OR CONTINUOUS	LVR	LOUVER	THRD GL	TEMPERED GLASS
		M		TO	TOP OF ____
CONTR	CONTRACTOR	MAINT	MAINTENANCE	TOJ	TOP OF JOIST
COORD	COORDINATE	MAS	MASONRY	TOC	TOP OF CONCRETE/TOP OF CURB
COP	COPING	MATL	MATERIAL		
CORR	CORRIDOR	MAX	MAXIMUM	TOM	TOP OF MASONRY
CPT	CARPET	MECH	MECHANICAL	TOP	TOP OF PARAPET
CSK	COUNTER SUNK	MED	MEDIUM	TOS	TOP OF STEEL/TOP OF SLAB
CT	CERAMIC TILE	MEMB	MEMBRANE	TOW	TOP OF WALL
CTR	CENTER	MFG	MANUFACTURING	TRTD	TREATED
CU FT	CUBIC FOOT/FEET	MFR	MANUFACTURER	TS	TUBE STEEL
CW	COLD WATER	MIN	MINIMUM	TYP	TYPICAL
CY	CUBIC YARDS	MISC	MISCELLANEOUS	U	
D		ML	METAL LATH	UBC	UNIFORM BUILDING CODE
D	DEPTH/DEEP	MO	MASONRY OPENING	UC	UNDERCUT
DBL	DOUBLE	MOD BIT	MODIFIED BITUMEN	UL	UNDERWRITER'S LABORATORIES
DEMO	DEMOLITION	MR	MOISTURE RESISTANT		
DET	DETAIL	MB	MOP SINK	UNFIN	UNFINISHED
DF	DRINKING FOUNTAIN	MTD	MOUNTED	UON	UNLESS OTHERWISE NOTED
DEL	DELETE	MTL	METAL	UR	URINAL
DETN	DETENTION	MULL	MULLION	UTIL	UTILITY
DIA	DIAMETER	N		V	
DIAG	DIAGONAL	N	NORTH	VAR	VARIES
DIM	DIMENSION	N/A	NOT APPLICABLE	VNR	VENEER
DISP	DISPENSER	NCOMBL	NONCOMBUSTIBLE	VCT	VINYL COMPOSITION TILE
DMPRF	DAMPPROOFING	NEG	NEGATIVE	VERT	VERTICAL
DN	DOWN	NIC	NOT IN CONTACT	VEST	VESTIBULE
DR	DOOR/DRAIN	NO	NUMBER	VIF	VERIFY IN FIELD
DS	DOWNSPOUT	NOM	NOMINAL	VTR	VENT THROUGH ROOF
DTL	DETAIL	NTS	NOT TO SCALE	VWC	VINYL WALL COVERING
DWG	DRAWING	O		W	
E		OA	OVERALL	W	WEST/WIDTH
E/(E)	EAST/EXISTING	OC	ON CENTER	W/	WITH
EA	EACH	OD	OUTSIDE DIAMETER	WBL	WOOD BLOCKING
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OF	OUTSIDE FACE	WC	WATER CLOSET/WALL COVERING
EJ	EXPANSION JOINT	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	WD	WOOD
EL	REFERENCE ELEVATION	OFF	OFFICE	WDW	WINDOW
ELEC	ELECTRIC/ELECTRICAL	OF/OI	OWNER FURNISHED / OWNER INSTALLED	WF	WIDE FLANGE
ELEV	ELEVATOR/ELEVATION			WGL	WIRED GLASS
EMERG	EMERGENCY	OH	OPPOSITE HAND/ OVERHEAD/OVERHANG	WH	WATER HEATER/WEEP HOLE
ENCL	ENCLOSURE			WO	WITHOUT
ENGR	ENGINEER/ENGINEERING	O/O	OUT TO OUT	WP	WATERPROOFING/WORKING POINT
EOS	EDGE OF SLAB	OPNG	OPENING		
EPDM	ETHYLENE PROPYLENE DIENE MONOMOR	OPP	OPPOSITE	WR	WATER RESISTANT
		ORD	OVERFLOW ROOF DRAIN	WT	WEIGHT
EQ	EQUAL	ORIG	ORIGINAL	WWF	WELDED WIRE FABRIC
EQL SP	EQUALLY SPACED	ORN	ORNAMENTAL	Y	
EQUIP	EQUIPMENT	ORS	OVERFLOW ROOF SCUPPER	YD	YARD/YARDS
EST	ESTIMATE	P			MISCELLANEOUS
ETC	ET CETERA	PTN	PARTITION	#	NUMBER/POUNDS
EW	EACH WAY	PAT	PATTERN	&	AND
EWC	ELECTRIC WATER COOLER	PBD	PARTICLE BOARD	@	AT/EACH/RATE
EXIST	EXISTING	PCC	PRECAST CONCRETE	'	FEET/MINUTES
EXP	EXPOSED	PERF	PERFORATED	"	INCHES/SECONDS
EXPAN	EXPANSION	PERM	PERMANENT	°	DEGREES
EXT	EXTERIOR/EXTERNAL	PL	PLATE/PROPERTY LINE	ø	DIAMETER
F		PLAM	PLASTIC LAMINATE	∠	ANGLE
F / F	FACE TO FACE	PLAS	PLASTER/PLASTIC		
FA	FIRE ALARM	PLBG	PLUMBING		
FACP	FIRE ALARM CONTROL PANEL	PLYWD	PLYWOOD		
FBO	FURNISHED BY OWNER	POL	POLISHED		
FD	FLOOR DRAIN	PNL	PANEL		
FDTN	FOUNDATION	PT	PAINT		
FDV	FIRE DEPARTMENT VALVE CABINET	PR	PAIR		
		PREFAB	PREFABRICATED		
FE	FIRE EXTINGUISHER	PREFIN	PREFINISHED		
FEC	FIRE EXTINGUISHER CABINET	PRELIM	PRELIMINARY		
F F EL	FINISHED FLOOR ELEVATION	PREP	PREPARATION		
FF INSUL	FOIL BACKED INSULATION	PROJ	PROJECT		
FIN GR	FINISHED GRADE	PT CONC	POST TENSION CONCRETE		
FH	FIRE HYDRANT	PTD	PAINTED		
FHC	FIRE HOSE CABINET	PVC	POLYVINYL CHLORIDE		
FIN	FINISH	PVMT	PAVEMENT		
FIXT	FIXTURE	Q			
FL	FLOW LINE	QT	QUARRY TILE		
FLR	FLOOR/FLOORING	QTY	QUANTITY		
FLUOR	FLUORESCENT	R			
FND	FOUNDATION	R	RADIUS/RISER		
FR	FRAME/FIRE RATED/FIRE RETARTANT	RA	RETURN AIR		
		RB	RUBBER BASE		
FT	FOOT/FEET	RBR	RUBBER		
FTG	FOOTING	RCP	REFLECTED CEILING PLAN		
FURG	FURRING	RD	ROOF DRAIN		

BUILDING CODE DATA

CODES IN EFFECT *Arapahoe County, Colorado*

- o 2021 IBC
- o 2021 IMC
- o 2021 IPC
- o 2021 IFGC
- o 2021 IECC
- o 2021 IEBC
- o 2021 ISPSC (Where applicable)
- o 2023 NEC
- o 2017 ANSI A-117.1

BUILDING TYPE

Type VB - Non-Sprinkled, No alarms (601)

OCCUPANCY TYPE

Group B, Professional Services, Dental Office (304.1)

CODE SUMMARY

ZONING: N/A - Tenant Finish Project In Existing Building
OCCUPANCY: Group B Occupancy - Professional Services, Dental Office (304.1)
PRIOR/EXISTING USE: Professional Services (304.1)
PROPOSED USE: Dental Office
BLDG. TYPE: Type VB - Non-Sprinkled, No alarms (601)
ALLOWABLE AREA: N/A - This project is in an existing building (504.3)
AREA OF SUITE: 5,184 gross sf
OCCUPANT LOAD: Group B (table 1004.5 and 303.1.2):
5,184 gsf ÷150 sf per occ. = 18 Occupants (table 1004.5)

EXITING:
Exit width required: (18 occupants x 0.2") = 3.6" (1005.3.2)
Exit width provided: = 68" (1010.1.1)
Maximum Length of common path of egress: = 75' (Non-Sprinkled - table 1006.2.1)
Actual length of common path of egress: = 16'-9"
Maximum Exit Access Travel Distance: = 200' (table 1017.2)
Actual length of Exit Access Travel Distance: = 71'-9" Path "A"
108'-2" Path "B"

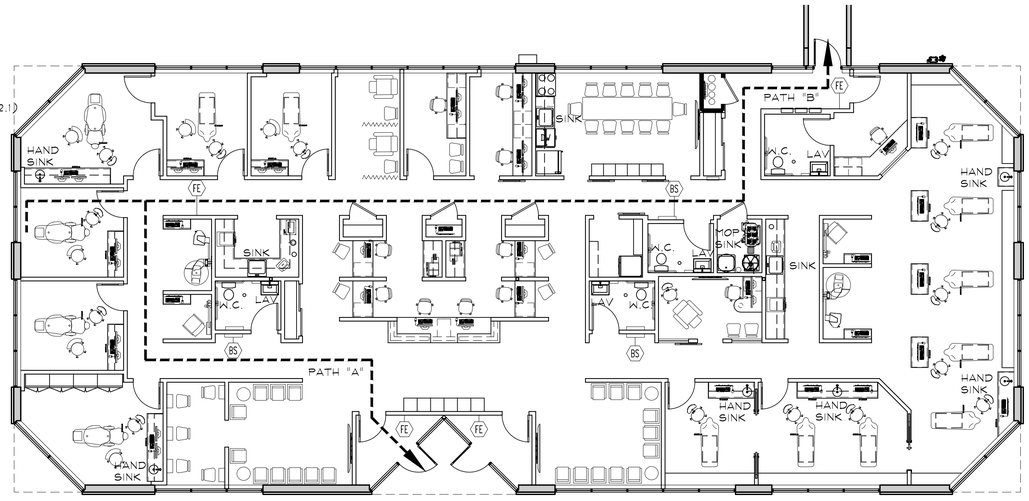
OVERALL EXITS 1 ea. (1006.3.4) REQUIRED:
OVERALL EXITS 2 exits @ 34" = 68" (1010.1.1) PROVIDED:
FIRE PROTECTION: Non-sprinkled, no alarms

RESTROOM FACILITIES: 4 ea. accessible restrooms will be provided with this project

FIXTURES: 3 new sinks, 6 new hand sinks, 1 new mop sink, 4 new lavatories and 4 new water closets will be added. A waiver of the drinking fountain requirement is requested. 3 ea. plumbed, filtered water bottle refilling station with individually dispensed cups are provided with this project. In our view this meets the intent of the drinking fountain requirement (providing access to clean water) while at the same time reducing the risk of exposure to serious and very communicable diseases.

303.1.2 Small Assembly Spaces

The following rooms and spaces shall not be classified as Assembly occupancies:
A room or space used for assembly purposes with an occupant load of less than 50 persons and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.
A room or space used for assembly purposes that is less than 750 square feet (70 m2) in area and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.



FE MINIMUM RATED 2A-10BC PORTABLE FIRE EXTINGUISHER, SEMI-RECESSED
BS BOTTLE FILLING STATION

NORTH

0 2' 4' 8' 16'
1/8" = 1'-0"

TABLE 2902.1 [P] MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES[a] (See Sections 2902.1.1 and 2902.2)

OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS SEE SECTION 419.2 OF THE *INTERNATIONAL PLUMBING CODE*)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS[e,f] (SEE SECTION 410.1 OF THE *INTERNATIONAL PLUMBING CODE*)	OTHER
		MALE	FEMALE	MALE	FEMALE			
B	Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		—	1 per 100	1 service sink[g]
PLUMBING FIXTURES: PROVIDED		SEE ABOVE	SEE ABOVE	SEE ABOVE		-	SEE ABOVE	SEE ABOVE

GENERAL NOTES

1. GENERAL REQUIREMENTS

1.1 SUMMARY:

THE WORK INCLUDES BUT IS NOT LIMITED TO THE INTERIOR TENANT FINISH IMPROVEMENTS OF THE FACILITY AT THE REFERENCED ADDRESS, INCLUDING RELATED MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER AND ALARMS SPECIAL EQUIPMENT, SYSTEMS AND COORDINATION THEREOF AS NECESSARY FOR FULL AND COMPLETE INTENDED USE BY THE OWNER, THE INTENT OF WHICH IS INDICATED IN THE CONSTRUCTION DOCUMENTS.

1.2 GENERAL CONDITIONS OF THE CONTRACT:

A. THE ARCHITECT SHALL BE THE SOLE INTERPRETER OF THE INTENT OF THE CONTRACT DOCUMENTS

1.3 GENERAL NOTES:

1. CONTRACTORS RESPONSIBLE FOR VISITING SITE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BID AND START OF WORK
2. ALL WORK TO BE IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
3. ALL RFI'S MUST BE SUBMITTED IN WRITING.
4. FULL SUBMITTALS/SHOP DRAWINGS REQUIRED FROM ALL TRADES.
5. ANY CONFLICTS OR DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY UPON THEIR DISCOVERY.
6. ALL WORK SHALL ALSO CONFORM TO THE OWNERS BUILDING STANDARDS AND DETAILS. G.C. TO COORDINATE AND VERIFY
7. G.C. SHALL COORDINATE ALL WORK BY OWNERS VENDORS INCLUDING BUT NOT LIMITED TO COMPUTER, TELEPHONE, SECURITY AND BUILDING CONTROL SYSTEMS. G.C. SHALL REVIEW SAID CONTRACTS AND DRAWINGS AND DISCUSS SAME WITH VENDORS PRIOR TO BID AND CONSTRUCTION
8. INSTALL ALL ITEMS, EQUIPMENT AND MATERIALS PER MANUFACTURERS INSTRUCTIONS
9. G.C. SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS AND INSPECTIONS
10. G.C. SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING ANY REQUIRED TESTING AND INSPECTIONS AND FORWARDING THAT INFORMATION TO THE ARCHITECT AND OWNER.
11. FIRE SPRINKLERS AND FIRE ALARMS TO BE MODIFIED AND/OR UPGRADED AS REQUIRED BY THE LOCAL FIRE DISTRICT. SPRINKLER AND ALARM SUBCONTRACTORS TO PREPARE SHOP DRAWINGS AND SUBMIT FOR/OBTAIN PERMITS AS REQUIRED.

1.4 BIDDING

A. CONTRACTORS BY PROVIDING A BID REPRESENT THAT THEY:
1) UNDERSTAND THE REQUIREMENTS OF THE CONSTRUCTION CONTRACT
2) HAVE VISITED THE SITE AND ARE FAMILIAR WITH THE CONDITIONS
3) PROVIDED A BID BASED UPON FULL EXECUTION OF THE INTENT OF THE CONTRACT DOCUMENTS
4) CONSULTED WITH THE OWNER REGARDING ACCESS, STORAGE, RESTROOMS, TRASH REMOVAL, ETC. AND ANY OTHER NECESSITIES OF CONSTRUCTION AND HAVE INCLUDED THOSE COSTS IN THE BID SUBMITTED
5)HAVE VERIFIED THE ADEQUACY OF NEW AND EXISTING WORK REQUIRED BY CONTRACT DOCUMENTS

B. ALLOWANCES: ALLOWANCE PRICE SHALL INCLUDE ONLY THE TAILGATE DELIVERY AND MATERIAL COSTS AS INVOICED FROM THE MANUFACTURER OR SUPPLIER. INSTALLATION SHALL BE INCLUDED IN THE BASE PRICE
C. ALTERNATES: ITEMIZE ALL INCLUSIVE ADD/DEDUCT PRICES FOR ALL ALTERNATES LISTED IN CONTRACT DOCUMENTS
D. SUBSTITUTIONS: NO SUBSTITUTIONS SHALL BE INCORPORATED INTO THE WORK WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT. NO SUBSTITUTIONS WILL BE ENTERTAINED UNLESS THEY REPRESENT A COST SAVINGS TO THE OWNER WITHOUT SACRIFICING QUALITY OR FUNCTION.
E. COMPLETE BID BREAKDOWNS SHALL BE SUBMITTED INCLUDING GENERAL CONDITIONS, OVERHEAD AND PROFIT AND ALL DIVISIONS OF THE WORK IN CSI FORMAT

1.5 SUBMITTALS

A. SUBMIT 4 COPIES MIN. OF SHOP DRAWINGS, PRODUCT DATA AND FINISH SAMPLES (OR ELECTRONIC COPIES)
B. ALLOW 5 WORKING DAYS FOR ARCHITECTS REVIEW OF SUBMITTALS
C. G.C. MUST CERTIFY IN WRITING THAT SUBMITTALS COMPLY WITH DESIGN INTENT UPON SUBMITTING TO THE ARCHITECT
D. SUCCESSFUL G.C. SHALL SUBMIT WITHIN 7 DAYS OF CONTRACT AWARD, AND MONTHLY THEREAFTER FOR ARCHITECTS REVIEW: 1) CONSTRUCTION SCHEDULE 2) SUBMITTAL SCHEDULE
E. G.C. SHALL SUBMIT A PUNCH LIST FOR OWNERS REVIEW 1 WEEK PRIOR TO APPLICATION FOR FINAL PAYMENT

1.6 FINAL CLEAN

A. CONTRACTOR TO PROVIDE FOR A COMPLETE AND FINAL CLEAN OF ALL WORK ASSOCIATED WITH THIS PROJECT
B. SURPLUS MATERIALS SHALL BE DELIVERED, AT OWNERS OPTION, TO THE OWNER

1.7 PROJECT CLOSE-OUT

A. CONTRACTOR TO PROVIDE OPERATION/MAINTENANCE MANUALS TO OWNER FOR ALL CONTRACTOR PROVIDED & INSTALLED EQUIPMENT, FIXTURES AND SPECIAL FINISHES/MATERIALS

R6	LIFE SAFETY PLAN
1"=20'-0"	RE:

No	Revision / Submissions	Date

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION
LIFE SAFETY PLAN

STATE OF COLORADO PAUL J. BATTISTA B-3015 05/08/2025 LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: G1.1
Reviewed: PJB	
Date: May 2025	of

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UL Product iQ®

BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263

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.

Fire-resistance Ratings - ANSI/UL 263

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

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

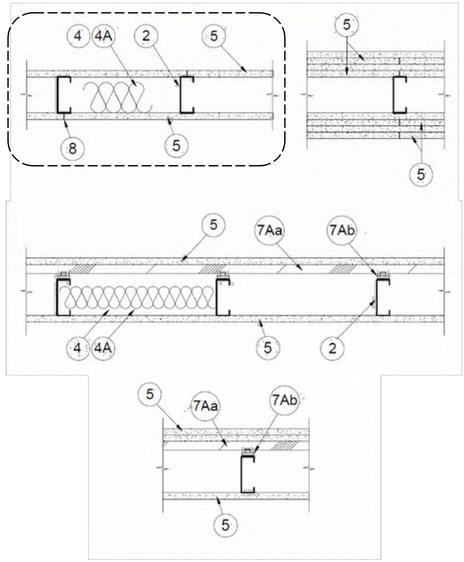
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U419**

September 5, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —**

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed* —** (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic* —** (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic* —** (Where Batts and Blankets*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Sprayrite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Sprayrite® 158, Sprayrite® SP and Sprayrite® 81205

5. **Gypsum Board* —** 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. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional

No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-426-4895
Fax: 303-426-5472
Email: info@battistadesign.net
www.battistadesign.net

BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION
UL-U419 DETAILS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/08/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: G1.2
Reviewed: PJB	
Date: May 2025	of

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3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

5L. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically.**Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** 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 2022-09-05

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No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION
UL-U419 DETAILS

STATE OF COLORADO · PAUL J. BATTISTA · B-3015 · 05/08/2025 · LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: G1.3
Reviewed: PJB	
Date: May 2025	of

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UL Product iQ®

BXUV.U415 - Fire-resistance Ratings - ANSI/UL 263

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.

Fire-resistance Ratings - ANSI/UL 263

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

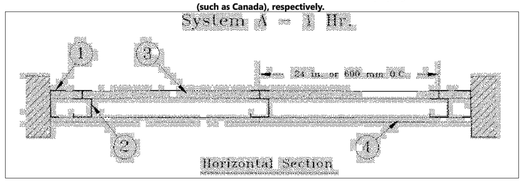
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U415**

February 14, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

System A — 1 Hr.



channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

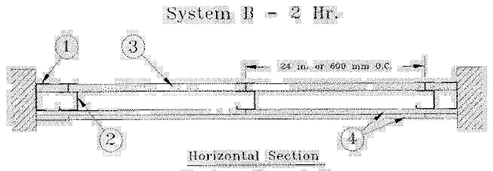
UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

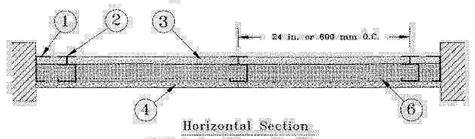
USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

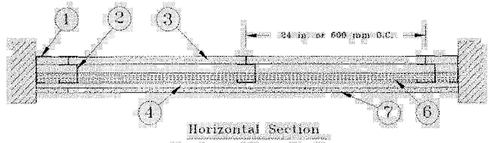
System B — 2 Hr.



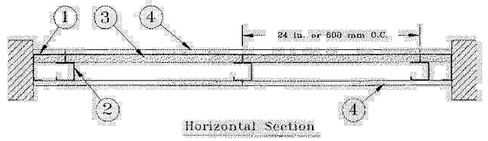
System C — 2 Hr.



System D — 2 Hr.



System E — 2 Hr.



Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

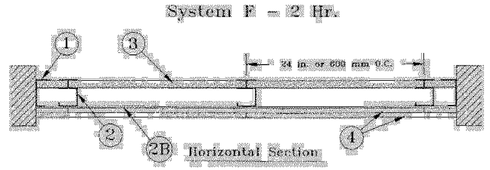
USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

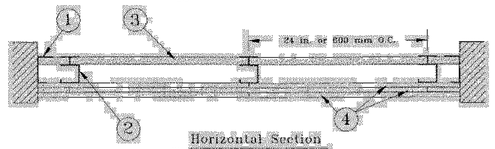
System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

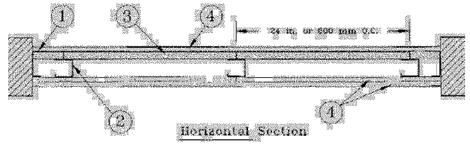
System F — 2 Hr.



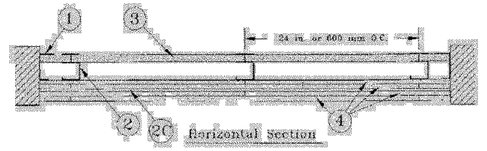
System G — 3 Hr.



System H — 3 Hr.



System I — 4 Hr.



1. **Floor, Side and Ceiling Runners —** "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs —** "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net

BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION
UL-U415 DETAILS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/08/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: G1.4
Reviewed: PJB	
Date: May 2025	of

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CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound —** (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —**

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m^3

THERMAFIBER INC — Type SAFB, SAFB FF

7. **Cementitious Backer Units* —** (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. **Laminating Adhesive* —** (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** 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 2022-02-14

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.

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No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4995
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION

UL-U415 DETAILS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/08/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: G1.5
Reviewed: PJB	
Date: May 2025	of

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Material Safety Data Sheet

Prepared according to US OSHA, CMA, ANSI and Canadian WHMIS Standards.

Oxygen/ALIGAL ™ 3/LASAL ™ 2003.

Section 1. Chemical product and company identification

Commercial name(s). : **Oxygen/ALIGAL ™ 3/LASAL ™ 2003.**
MSDS no. 10074
Product use Medical, welding and general analytical or synthetic chemical uses.
Manufactured/supplied
Address 2700 Post Oak Drive
Houston, TX 77056-8229

Emergency telephone number CHEMTREC: 1-800-424-9300
Telephone no.
GENERAL MSDS INFORMATION 1-(713)-896-2896
Fax on Demand 1-(800)-231-1366

Section 2. Hazards identification

Physical state : Gas.
OSHA/HCS status : This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.
Emergency overview : WARNING
STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HIGH PRESSURE GAS.
Keep away from heat (<52°C/125°F). Use only with adequate ventilation. Extremely hazardous gas under pressure. Keep cylinder valve closed when the product is not used. Gas may accumulate in confined areas.
Routes of entry : Inhalation. Dermal contact. Eye contact.
Potential acute health effects
Inhalation : Inhlation of this product may cause hyperoxia.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.
Potential chronic health effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic effects: Not available.
Teratogenic effects: Not available.
Over-exposure signs/symptoms
Inhalation : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
Medical conditions aggravated by over-exposure : None known.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

	CAS number	mole %
Canada		
Oxygen	7782-44-7	99.5

United States

Chemical name	CAS #	mole %	Occupational exposure limits	IDLH
Oxygen	7782-44-7	99.5	Not applicable	NE

NE: Not Established **C: Ceiling Limit** **See Section 16 for possible acronym definitions**

See Sections 8, 11, 14 and 15 for details.

Section 4. First aid measures

Prompt medical attention is mandatory in all cases of overexposure to this gas. Rescue personnel should wear a self-contained breathing apparatus and be awared of the extremely high risk of fire, caused by overoxygenated atmospheres.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
Skin contact : Not applicable.
Eye contact : Not applicable.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.

Notes to physician : The medical doctor must be warned that the person may suffer from hyperoxia.

Section 5. Fire fighting measures

Flammability of the product : Non-flammable.
This gas vigorously accelerate combustion. Avoid all contact with combustible materials. Some non-flamamble materials in air will burn under an overoxygenated atmosphere.
Products of combustion : No specific data.
Explosion hazards in the presence of various substances : Container explosion may occur under fire conditions or when heated.
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Contains gas under pressure. Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : EVACUATE ALL PERSONNEL FROM AFFECTED AREA.
Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is on cylinder or cylinder valve, contact the closest Air Liquide location.
Environmental precautions : In case of a leak, clear the affected area, protect people, eliminate sources of ignition and respond with trained personnel.
If leaking incidentally from the cylinder or its valve, contact your supplier. Use non-sparking tools and equipment during the response.
Methods for cleaning up : Contact your local Air Liquide Gas supplier for details.

Section 7. Handling and storage

Handling : Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to usage point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure regulator when connecting cylinder to lower pressure piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow to the cylinder. Do not tamper with (valve) safety device. Close valve after each use and when empty.
Storage : Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non combustible construction away from heavy traffic areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 52°C/125°F. Cylinders must be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Prevent full cylinders being stored for excessive periods of time. Post "No Smoking or Open Flames" signs in the storage or use area. There should be no source of ignition in the storage or use area.

Section 8. Exposure controls/personal protection

Engineering controls : Use only in well-ventilated areas.
Personal protection
Respiratory : Not required under normal conditions of use.
Hands : Wear leather gloves when handling cylinders of this gas. Otherwise, wear glove protection appropriate to the specific operation for which this gas is used.
Eyes : Safety glasses with side shields.
Skin/Body : Use body protection appropriate for task. Cotton clothing is recommended for use to prevent static electric build-up. Pressurized product may require use of fire retardant clothing.
Metal cap, safety shoes are recommended when handling cylinders.

Some applications of this product may require additionnal or other specific protective clothings. Please consult your supervisor.

Personal protection in case of a major leak : Safety glasses with side shields, goggles or face shield. Impervious gloves. Protective clothing. Metal cap, safety shoes. Wear MSHA/NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

Product name	Exposure limits
Canada	
Oxygen	NE
United States	
Oxygen	NE

NE: Not Established

Section 9. Physical and chemical properties

Physical state : Gas.
Color : Colorless.
Odor : Odorless.
Molecular weight : 32 g/mole
Molecular formula : O_2
Boiling/condensation point : -183.11°C (-297.6°F)
Melting/freezing point : -218.55°C (-361.4°F)

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.
Incompatibility with various substances : Reactive or incompatible with the following materials: organic materials.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Acute Effects
Inhalation : Inhlation of this product may cause hyperoxia.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.
Potential chronic health effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic effects: Not available.
Teratogenic effects: Not available.

Section 12. Ecological information

Products of degradation : This gas is released as is in the atmosphere.

Section 13. Disposal considerations

Disposal : Residual materials contained in customer-owned cylinders should be disposed of in accordance with Federal, State and Local regulations on waste management. For residual materials contained in cylinders owned by Air Liquide, contact Sales or Customer Service to determine appropriate disposal. Do not return cylinders without authorization from Air Liquide.

14 . Transport information

AERG : 122

Regulatory information	Proper shipping name	Class	UN number	PG	Label
UN / IMDG / IATA Classification	OXYGEN, COMPRESSED	2.2, (5.1)	UN1072	-	
DOT Classification	OXYGEN, COMPRESSED	2.2, (5.1)	UN1072	-	
TDG Classification	OXYGEN, COMPRESSED	2.2, (5.1)	UN1072	-	

Additional information	UN	IMDG	IATA	DOT	TDG
	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg **Special provisions** A52	**Special provisions** 42

Cylinders should be transported in a secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

Section 15. Regulatory information

Canada
WHMIS (Canada) : Class A: Compressed gas.
Class C: Oxidizing material.

Canada inventory: This material is listed or exempted.
CEPA DSL: All components listed.

United States
OSHA HAZARD COMMUNICATION STANDARD (29CFR PART 1910.1200).
Compressed gas
Oxidizing material
SARA 302/304 emergency planning and notification: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Oxygen: Fire hazard, Sudden release of pressure, Delayed (chronic) health hazard
CERCLA: Hazardous substances.: No products were found.
US INVENTORY (TSCA)
TSCA 8(b) inventory: All components listed.
State regulations
California prop. 65: No products were found.
Connecticut Carcinogen Reporting: This material is not listed.
Connecticut Hazardous Material Survey: This material is not listed.
Florida substances: This material is not listed.
Illinois Chemical Safety Act: This material is not listed.
Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.
Louisiana Reporting: This material is not listed.
Louisiana Spill: This material is not listed.
Massachusetts Spill: This material is not listed.
Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.
Minnesota Hazardous Substances: This material is not listed.
New Jersey Hazardous Substances: This material is listed.
New Jersey Spill: This material is not listed.
New Jersey Toxic Catastrophe Prevention Act: This material is not listed.
New York Acutely Hazardous Substances: This material is not listed.
New York Toxic Chemical Release Reporting: This material is not listed.
Pennsylvania RTK Hazardous Substances: This material is not listed.
Rhode Island Hazardous Substances: This material is not listed.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :

Health	0
Fire hazard	0
Reactivity	0
Personal protection	G

National Fire Protection Association (U.S.A.) :

Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about gas mixtures can be found in pamphlets published by: Compressed Gas Association Inc (CGA), 4221 Walney Road, 5th floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

Acronyms : **ACGIH: American Conference of Governmental Industrial Hygiene.**
IARC: International Agency for Research on Cancer.
NIOSH: National Institute of Occupational Safety and Health.
OSHA: Occupational Safety and Health Administration
NTP: National Toxicology program.
OECD: Organisation for Economic Co-operation and Development.
PEL: Permissible Exposure Limit.
IDLH: Immediately Dangerous to Life and Health.
NE: Not established.
C: Ceiling Limit.
DSL: Domestic Substance List.
NDSL: Non-Domestic Substance List.
CFR: Code of Federal Regulations.
TSCA: Toxic Substance Control Act.

Date of issue : 12/31/2007
Date of previous issue : 06/30/2006
Version : 4

Notice to reader
This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200, American National Standard Institute Z400.1, 2004, the Canadian Workplace Hazardous Material Information Systems (WHMIS). Other government regulations must be reviewed for applicability to this gas mixture. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

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No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION
OXYGEN MSDS

STATE OF COLORADO PAUL J. BATTISTA B-30115 05/08/2025 LICENSED ARCHITECT

Designed:	Project Number: SMITHWICK2025
Drawn:	Scale: As Shown
Checked:	Drawing Number: G1.6
Reviewed:	
Date: April 2025	of

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Material Safety Data Sheet

Prepared according to US OSHA, CMA, ANSI and Canadian WHMIS Standards.

Nitrous oxide/ALIGAL ™ 5

AIR LIQUIDE

Section 1. Chemical product and company identification

Commercial name(s). : **Nitrous oxide/ALIGAL ™ 5**
Synonym : Laughing gas.
MSDS no. : 10072
Product use Manufactured/supplied : Used for anesthesia and analgesia; Oxidizing gas for atomic absorption photometry, propellant for aerosols, food additive and in manufacture of semiconductors

Address : 2700 Post Oak Drive
Houston, TX 77056-8229

Emergency telephone number : CHEMTREC: 1-800-424-9300

Telephone no.

GENERAL MSDS INFORMATION : 1-(713)-896-2896
Fax on Demand : 1-(800)-231-1366

Section 2. Hazards identification

Physical state : Gas.
OSHA/HCS status : This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.

Emergency overview : WARNING

STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HIGH PRESSURE GAS. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Keep away from heat (<52°C/125°F). Use only with adequate ventilation. Extremely hazardous gas under pressure. Keep cylinder valve closed when the product is not used. Gas may accumulate in confined areas.

Routes of entry : Inhalation. Dermal contact. Eye contact.
Potential acute health effects
Inhalation : Inhalation of this product may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.
Potential chronic health effects : CARCINOGENIC EFFECTS: A4 by ACGIH, 3 by IARC.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Over-exposure signs/symptoms
Inhalation No specific data.
Ingestion No specific data.
Skin No specific data.
Eyes No specific data.
Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

	CAS number	mole %
Canada		
Nitrous oxide	10024-97-2	> 99.6

United States

Chemical name	CAS #	mole %	Occupational exposure limits	IDLH
Dinitrogen oxide	10024-97-2	> 99.6	**NIOSH REL (United States, 12/2001).** TWA: 46 mg/m³ 10 hour(s). Form: All forms. TWA: 25 ppm 10 hour(s). Form: All forms. **ACGIH TLV (United States, 1/2005).** TWA: 90 mg/m³ 8 hour(s). Form: All forms. TWA: 50 ppm 8 hour(s). Form: All forms.	NE

NE: Not Established **C: Ceiling Limit** **See Section 16 for possible acronym definitions**

See Sections 8, 11, 14 and 15 for details.

Section 4. First aid measures

Prompt medical attention is mandatory in all cases of overexposure to this gas. Rescue personnel should wear a self-contained breathing apparatus.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
Skin contact : Not applicable.
Eye contact : Not applicable.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.

Notes to physician : The medical doctor must be warned that the person may suffer from anoxia.

Section 5. Fire fighting measures

Flammability of the product : Non-flammable.
Products of combustion : Decomposition products may include the following materials: nitrogen oxides
Explosion hazards in the presence of various substances : Container explosion may occur under fire conditions or when heated.
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Contains gas under pressure. Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Material Safety Data Sheet
Prepared according to US OSHA, CMA, ANSI and Canadian WHMIS Standards.
Nitrous oxide/ALIGAL ™ 5
AIR LIQUIDE
Section 1. Chemical product and company identification
Commercial name(s). : Nitrous oxide/ALIGAL ™ 5
Synonym : Laughing gas.
MSDS no. : 10072
Product use Manufactured/supplied : Used for anesthesia and analgesia; Oxidizing gas for atomic absorption photometry, propellant for aerosols, food additive and in manufacture of semiconductors
Address : 2700 Post Oak Drive Houston, TX 77056-8229
Emergency telephone number : CHEMTREC: 1-800-424-9300
Telephone no.
GENERAL MSDS INFORMATION : 1-(713)-896-2896
Fax on Demand : 1-(800)-231-1366
Section 2. Hazards identification
Physical state : Gas.
OSHA/HCS status : This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.
Emergency overview : WARNING
STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HIGH PRESSURE GAS. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Keep away from heat (<52°C/125°F). Use only with adequate ventilation. Extremely hazardous gas under pressure. Keep cylinder valve closed when the product is not used. Gas may accumulate in confined areas.
Routes of entry : Inhalation. Dermal contact. Eye contact.
Potential acute health effects
Inhalation : Inhalation of this product may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.
Potential chronic health effects : CARCINOGENIC EFFECTS: A4 by ACGIH, 3 by IARC.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Over-exposure signs/symptoms
Inhalation No specific data.
Ingestion No specific data.
Skin No specific data.
Eyes No specific data.
Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
See toxicological information (section 11)
Date of issue : 12/31/2007 Page: 1/7

Product name
Dinitrogen oxide

Exposure limits

ACGIH TLV (Canada, 1/2005).
TWA: 90 mg/m³ 8 hour(s). Form: All forms.

United States
Dinitrogen oxide

ACGIH TLV (United States, 1/2006).
TWA: 90 mg/m³ 8 hour(s).
NIOSH REL (United States, 12/2001).
TWA: 46 mg/m³ 10 hour(s).

NE: Not Established

Section 9. Physical and chemical properties

Physical state : Gas.
Color : Colorless.
Odor : Odorless.
Molecular weight : 44.02 g/mole
Molecular formula : N_2O
Boiling/condensation point : -87.99°C (-126.4°F)
Melting/freezing point : -90.99°C (-131.8°F)
Critical temperature : 36.6°C (97.9°F)
Specific gravity : 1.266 (Air = 1)
Vapor density : 1.53 [Air = 1]

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Acute Effects
Inhalation : Inhalation of this product may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Ingestion : Since the product is a gas, it will probably be inhaled rather than ingested. See above.
Potential chronic health effects : CARCINOGENIC EFFECTS: A4 by ACGIH, 3 by IARC.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Target organs : May cause damage to the following organs: the reproductive system, central nervous system (CNS).

Section 12. Ecological information

Products of degradation : These gases are released as is in the atmosphere.

Section 13. Disposal considerations

Disposal : Residual materials contained in customer-owned cylinders should be disposed of in accordance with Federal, State and Local regulations on waste management. For residual materials contained in cylinders owned by Air Liquide, contact Sales or Customer Service to determine appropriate disposal. Do not return cylinders without authorization from Air Liquide.

14 . Transport information

AERG : 122

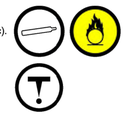
Regulatory information	Proper shipping name	Class	UN number	PG	Label
UN / IMDG / IATA Classification	NITROUS OXIDE	2.2, (5.1)	UN1070	-	
DOT Classification	NITROUS OXIDE	2.2, (5.1)	UN1070	-	
TDG Classification	NITROUS OXIDE	2.2, (5.1)	UN1070	-	

Additional information	UN	IMDG	IATA	DOT	TDG
	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	-

Cylinders should be transported in a secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

Section 15. Regulatory information

Canada
WHMIS (Canada) : Class A: Compressed gas.
Class C: Oxidizing material.
Class D-2A: Material causing other toxic effects (Very toxic).



Canada inventory: This material is listed or exempted.
CEPA DSL: All components listed.

United States
OSHA HAZARD COMMUNICATION STANDARD (29CFR PART 1910.1200).
Compressed gas
Oxidizing material
Target organ effects

SARA 302/304 emergency planning and notification: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dinitrogen oxide: Fire hazard, Sudden release of pressure, Delayed (chronic) health hazard

CERCLA: Hazardous substances.: No products were found.

US INVENTORY (TSCA)
TSCA 8(b) inventory: All components listed.

State regulations
California prop. 65: No products were found.

Connecticut Carcinogen Reporting: This material is not listed.
Connecticut Hazardous Material Survey: This material is not listed.
Florida substances: This material is not listed.
Illinois Chemical Safety Act: This material is not listed.
Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.
Louisiana Reporting: This material is not listed.
Louisiana Spill: This material is not listed.
Massachusetts Spill: This material is not listed.
Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.
Minnesota Hazardous Substances: This material is not listed.
New Jersey Hazardous Substances: This material is listed.
New Jersey Spill: This material is not listed.
New Jersey Toxic Catastrophe Prevention Act: This material is not listed.
New York Acutely Hazardous Substances: This material is not listed.
New York Toxic Chemical Release Reporting: This material is not listed.
Pennsylvania RTK Hazardous Substances: This material is listed.
Rhode Island Hazardous Substances: This material is not listed.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :

Health	* 1
Fire hazard	0
Reactivity	0
Personal protection	G

National Fire Protection Association (U.S.A.) :

Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about gas mixtures can be found in pamphlets published by: Compressed Gas Association Inc (CGA), 4221 Walney Road, 5th floor, Chantilly, VA 20151-2923 Telephone: (703) 788-2700.

Acronyms : **ACGIH: American Conference of Governmental Industrial Hygiene.**
ACGIH-A4-Not Classifiable as a Human Carcinogen.
IARC: International Agency for Research on Cancer.
IARC 3: Not classifiable for human.
OECD: Organisation for Economic Co-operation and Development.
PEL: Permissible Exposure Limit.
IDLH: Immediately Dangerous to Life and Health.
NE: Not established.
C: Ceiling Limit.
DSL: Domestic Substance List.
NDSL: Non-Domestic Substance List.
CFR: Code of Federal Regulations.
TSCA: Toxic Substance Control Act.

Date of issue : 12/31/2007
Date of previous issue : 08/31/2005
Version : 3

Notice to reader

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200, American National Standard Institute Z400.1, 2004, the Canadian Workplace Hazardous Material Information Systems (WHMIS). Other government regulations must be reviewed for applicability to this gas mixture. To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Trademarks : ALIGAL™ : Trademark of L'Air Liquide S.A.

No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4985
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

GENERAL INFORMATION
OXYGEN MSDS

STATE OF COLORADO PAUL BATTISTA B-3015 05/08/2025 LICENSED ARCHITECT

Designed:	Project Number: SMITHWICK2025
Drawn:	Scale: As Shown
Checked:	Drawing Number:
Reviewed:	G1.7
Date: May 2025	of

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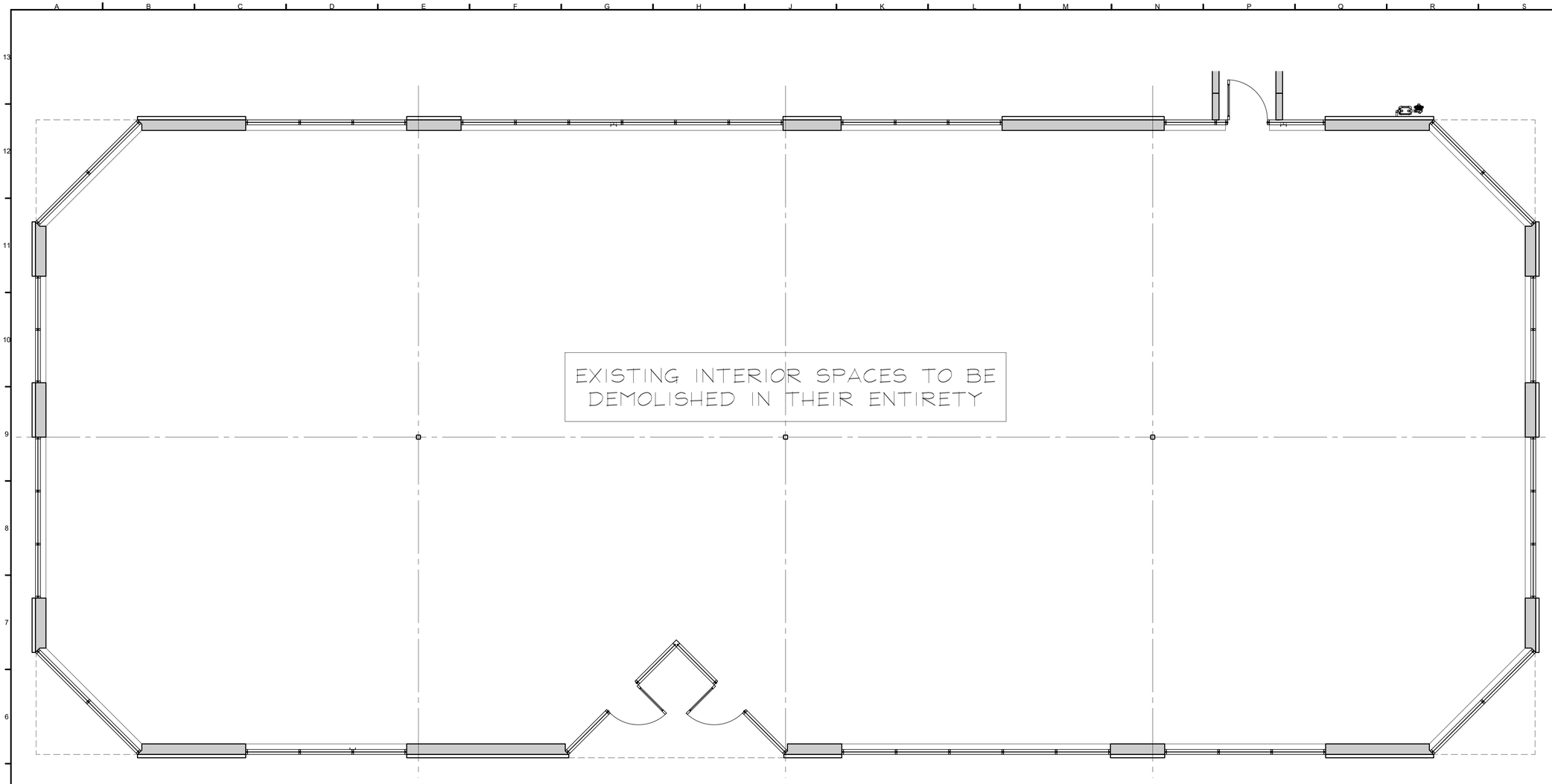

PLUMBING: REMOVE EXISTING PLUMBING FIXTURES AND PLUMBING LINES INSIDE INTERIOR WALLS SHOWN DASHED. CAP IN CEILINGS AND FLOOR AND WALL PENDING TENANT FINISH

HVAC: DEMO ALL EXISTING HVAC DUCTWORK DISTRIBUTION, GRD'S AND DEVICES THROUGHOUT

FLOORING: DEMO ALL EXISTING FLOORING MATERIALS AND WALL BASE THROUGHOUT UNLESS NOTED OTHERWISE

ELECTRICAL: DEMO ALL EXISTING LIGHT FIXTURES, DEVICES AND WIRING BACK TO PANEL. DEMO ALL LOW VOLTAGE WIRING AND DEVICES THROUGHOUT

CEILINGS: DEMO ALL EXISTING ACOUSTICAL CEILING GRID AND TILE THROUGHOUT UNLESS NOTED OTHERWISE

WALLS, DOORS AND MILLWORK: UNLESS NOTED OTHERWISE, DEMO ALL EXISTING INTERIOR PARTITIONS, INTERIOR DOORS/FRAMES/HARDWARE AND ALL MILLWORK SHOWN DASHED

NORTH

K1	DEMOLITION FLOOR PLAN
1/4"=1'-0"	Re:

NOTES:

1. MAKE SAFE ALL M/E/P SYSTEMS DURING DEMOLITION WORK

2. COORDINATE WITH BUILDING OWNER REGARDING WORK HOURS, MATERIALS STORAGE, STAGING AND TRASH REMOVAL REQUIREMENTS

3. DO NOT REMOVE ANY LOAD BEARING OR STRUCTURAL ELEMENTS. IF LOAD BEARING ELEMENTS ARE ENCOUNTERED OTHER THAN THOSE INDICATED NOTIFY THE ARCHITECT IMMEDIATELY

4. VERIFY WITH OWNER ANY ITEMS TO BE SALVAGED

Plan Legend:

EXISTING WALL TO REMAIN

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Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net

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Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

DEMOLITION FLOOR PLAN

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/08/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: D1.1
Reviewed: PJB	
Date: May 2025	of

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MATERIAL FINISH LEGEND

WALL/CEILING PAINT AND FINISHES:

(WALLS AND SOFFITS TO BE COMMERCIAL GRADE LATEX, SATIN FINISH, H.M. FRAMES & OTHER METAL SURFACES TO BE SEMI-GLOSS - OIL BASED PAINT)

PT1 (GENERAL WALL PAINT): SHERWIN WILLIAMS, COLOR TO BE SELECTED

PT2 (DOORS/DOOR FRAMES): SHERWIN WILLIAMS, COLOR TO BE SELECTED

PT3 (GYP CEILING PAINT): SHERWIN WILLIAMS, COLOR TO BE SELECTED, PAINT ALL WALLS, STRUCTURAL MEMBERS, DUCT WORK, WIRES, PIPES, ETC. ABOVE 8'-6" THROUGHOUT

PT4 (ACCENT PAINT): SHERWIN WILLIAMS, COLOR TO BE SELECTED

PT5 (ACCENT PAINT): SHERWIN WILLIAMS, COLOR TO BE SELECTED

PT6 (ACCENT PAINT): SHERWIN WILLIAMS, COLOR TO BE SELECTED

WT1 (WALL TILE): PORCELAIN/CERAMIC TILE TO BE SELECTED, PROVIDE $10 PER SQUARE FOOT FOR MATERIAL AND INSTALLATION
LOCATION: WALLS IN: UNISEX - 106, PRIVATE RESTROOM - 124, UNISEX - 129 & UNISEX - 153

WT2 (WALL TILE): PORCELAIN/CERAMIC TILE TO BE SELECTED, PROVIDE $10 PER SQUARE FOOT FOR MATERIAL AND INSTALLATION
LOCATION: LOWER PORTION OF RECEPTION DESK

FRP (WALL PROTECTION): 4' HIGH FIBERGLASS REINFORCED PLASTIC AND ASSOCIATED TRIMS, COLOR TO BE SELECTED

WALL BASE:

VB1 (VINYL BASE): TARKETT, MILLWORK REVEAL WALL BASE, 4-1/4" H, COLOR TO BE SELECTED CONTACT CHRISTINE FOULEM AT CFOULEM@WCTINGLE.COM
LOCATION: THROUGHOUT UNLESS NOTED OTHERWISE

VB2 (VINYL BASE): TARKETT, MILLWORK REVEAL WALL BASE, 6" H, COLOR TO BE SELECTED CONTACT CHRISTINE FOULEM AT CFOULEM@WCTINGLE.COM
LOCATION: AT ALL MILLWORK WITH 6" CABINET BASES, SEE ELEVATIONS

VB3 (VINYL BASE): TARKETT, STANDARD COVE BASE, 6" H, COLOR TO BE SELECTED CONTACT CHRISTINE FOULEM AT CFOULEM@WCTINGLE.COM
LOCATION: GAS - 125 & EQUIPMENT - 128

FLOOR FINISHES:

GM (GRATE MAT): MATTER SURFACES, "ARRIVAL", GRATE-MAT, ALUMINUM HINGE, CARPET INSERTS IN COLOR: CHARCOAL, LOOSE-LAY (NO ADHESIVE), CONTACT ARRIVAL@MATTERSURFACES.COM
LOCATION: VESTIBULE - 100 & VESTIBULE - 157

VNL (VINYL PLANK): TO BE SELECTED, PROVIDE $15 PER SQUARE FOOT ALLOWANCE TO INCLUDE MATERIAL AND INSTALLATION
COORDINATE WITH ARCHITECT ON INSTALLATION PATTERN, SEE A1.3
LOCATION: THROUGHOUT UNLESS NOTED OTHERWISE

CPT (CARPET TILE): 2' X 2' MODULAR CARPET TILE TO BE SELECTED, PROVIDE $25 PER SQUARE YARD ALLOWANCE TO INCLUDE MATERIAL AND INSTALLATION

MILLWORK AND COUNTERS:

PL1 (PLASTIC LAMINATE): TO BE SELECTED
LOCATION: UPPER AND LOWER CABINETS THROUGHOUT

PL2 (PLASTIC LAMINATE): TO BE SELECTED
LOCATION: COUNTER TOPS AND SPLASHES IN BREAK, LOWER COUNTER TOP & SPLASH AT RECEPTION 102, PRINTER COUNTERS (X2) AT RECEPTION - 102, COUNTER TOPS AND SPLASHES IN OFFICES 122, 133 & 136

SS1 (SOLID SURFACE): MEGANITE, TO BE SELECTED, CONTACT MARY FARACE AT DURANT.COM
LOCATION: COUNTER TOPS AND SPLASHES THROUGHOUT UNLESS NOTED OTHERWISE

GROUT:

GR1 (GROUT FOR WT1): MAPEI, COLOR TO BE SELECTED

GR2 (GROUT FOR WT2): MAPEI, COLOR TO BE SELECTED

GR3 (GROUT FOR FT): MAPEI, COLOR TO BE SELECTED

TRANSITION TRIMS - FLOORING:

TT1 (WT TO PFT): SCHLUTER "DILEX-AHK" ANODIZED ALUMINUM COVE TRIM, SIZE DETERMINED BY INSTALLER, CONTACT BRIAN MOFFITT AT BMOFFITT@SCHLUTER.COM

TT2 (TOP EDGE TRIM): SCHLUTER "JOLLY" SATIN ANODIZED ALUMINUM TOP EDGE TRIM, SIZE DETERMINED BY INSTALLER, CONTACT BRIAN MOFFITT AT BMOFFITT@SCHLUTER.COM

OTHER FINISHES:

ACT (ACOUSTIC CEILING TILE): 2' x 2' ARMSTRONG, CIRRUS, TEGULAR, IN 2' x2' x $\frac{15}{16}$" WHITE T-GRID

FB (CUSHION FABRIC): MOMENTUM TEXTILES AND WALL COVERINGS FABRIC, TO BE SELECTED, PROVIDE ALLOWANCE OF $30 PER YARD, CONTACT CARLA SIBILIA @ CSIBILIA@MOMTEX.COM

FOAM CUSHION: FABRIC COVERED, 4" THICK, FIRM POLYURETHANE FOAM CUSHIONS WITH HEAVY DUTY VELCRO (FOR ATTACHMENT TO BENCH TOP) , PROVIDE ALLOWANCE OF $25 PER SQUARE FOOT TO INCLUDE MATERIAL, FABRICATION AND INSTALLATION

GENERAL FINISH NOTES:

1. G.C. TO PROVIDE PROVIDE $6,500 ALLOWANCE FOR FLOOR PREP./MOISTURE MITIGATION
2. WALL/SOFFIT PAINT TO BE COMMERCIAL GRADE INTERIOR ACRYLIC LATEX, SATIN FINISH
3. H.M. FRAMES PAINT TO BE COMMERCIAL GRADE, OIL BASED, SEMI-GLOSS FINISH, COLOR TO BE SELECTED
4. PROVIDE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIAL, COLOR TO BLEND, SUBMIT SAMPLES FOR APPROVAL.
5. SUBMIT SAMPLES/SHOP DRAWINGS ON ALL ITEMS FOR REVIEW.
6. NEW AND EXISTING GYP. WALL SURFACES TO BE CLEANED, PRIMED AND TO RECEIVE 2 COATS COMMERCIAL GRADE INTERIOR LATEX, EGG SHELL, UNLESS NOTED OTHERWISE. PATCH EXISTING CORE/SHELL WALLS AS REQUIRED
7. GYP. CEILINGS, SOFFITS & WALLS TEXTURE TO BE SMOOTH LEVEL 4
8. ALL DRYWALL CORNER BEAD TO BE SQUARE, TYP.
9. ALL WALLS TO BE PAINTED PT1 UNLESS NOTED OTHERWISE.
10. PROVIDE WATER AND MOLD RESISTANT GYP BOARD AT ALL WET WALL LOCATIONS PER CODE
11. PROVIDE 2 COATS MATTE FINISH CLEAR PENETRATING SEALER ON ANY NATURAL STONE TILES AS OCCURS, BEFORE GROUTING AND THEN SEAL GROUT AFTER APPLICATION
12. EDGING BETWEEN FLOOR TILE/STONE, ADJACENT FLOORING AND VINYL FLOORING/CARPET TRANSITION TO BE SCHLUTER METAL EDGING "RENO-TK" AS OCCURS
13. FLOAT FLOORS AS REQUIRED BETWEEN DISSIMILAR FLOORING MATERIALS TO ACHIEVE A SMOOTH AND GRADUAL TRANSITION
14. SEE A1.2, A1.3 AND INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH INFORMATION
15. SUBMIT ALL FINISH SAMPLES TO OWNER FOR FINAL SELECTION/APPROVAL PRIOR TO ORDERING ANY MATERIAL
16. CONTRACTOR TO PROVIDE THE FOLLOWING TO THE OWNER AT THE COMPLETION OF THE JOB SEPARATE AND APART FROM WASTE:
    AT LEAST ONE EA. UNOPENED BOX OF ALL VINYL FLOORING, TILE (WALL AND FLOOR), CARPET TILE, WALL BASE AND CEILING TILE,
    AT LEAST 1 QUART OF ALL PAINT AND OR STAIN, CLEARLY LABELED, USED ON THE PROJECT,
    AT LEAST 6 OF EA. TYPE OF LAMP/BULB FOR ALL LIGHTING FIXTURE TYPES THAT UTILIZE REPLACEABLE LAMPS/BULBS, AT LEAST 1 BOX OF CEILING TILES

FINISH SCHEDULE

THIS SCHEDULE IS NOT ALL-ENCOMPASSING, REFER TO PLANS AND ELEVATIONS FOR ADDITIONAL FINISHES INFORMATION

ROOM		FLOOR			WALLS								CEILING		
					NORTH		EAST		SOUTH		WEST				
NO.	ROOM NAME	SUBSTRATE	FINISH	WALLBASE	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	REMARKS
100	VESTIBULE	CONC	GM	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	-	-
101	CHECK-IN	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
102	RECEP.	CONC	CPT	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
103	CHECK-OUT	CONC	VNL	VB1	-	-	GB	PT1	-	-	GB	PT1	OPEN	PT3	-
104	PRIZES	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
105	WAITING	CONC	CPT	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
106	UNISEX	CONC	FT	WT1	GB	WT1	GB	WT1/PT1	GB	WT1/PT1	GB	WT1/PT1	GB	PT1	-
107	TC ROOM	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
108	HALL	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
109	HYG. 1	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT5	-	ACT	-
110	HYG. 2	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	GB	PT5	-	ACT	-
111	STERI.	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
112	HALL	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
113	HYG. 3	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	-	-	-	ACT	-
114	HYG. 4	CONC	VNL	VB1	-	-	GB	PT1	GB	PT1	GB	PT1	-	PT3	CLOUD FEATURE IN OPEN CEILING SPACE
115	HYG. 5	CONC	VNL	VB1	-	-	GB	PT1	-	-	-	-	-	PT3	CLOUD FEATURE IN OPEN CEILING SPACE
116	HYG. 6	CONC	VNL	VB1	-	-	GB	PT1	-	-	-	-	-	PT3	CLOUD FEATURE IN OPEN CEILING SPACE
117	PANO.	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	GB	PT5	-	ACT	-
118	HALL	CONC	VNL	VB1	-	-	-	-	-	-	GB	PT1	OPEN	PT3	-
119	X-RAY	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	GB	PT5	-	ACT	-
120	HYG. 7	CONC	VNL	VB1	-	-	GB	PT1	-	-	-	-	-	PT3	CLOUD FEATURE IN OPEN CEILING SPACE
121	HYG. 8	CONC	VNL	VB1	GB	PT1	GB	PT1	-	-	GB	PT1	-	PT3	CLOUD FEATURE IN OPEN CEILING SPACE
122	OFFICE	CONC	CPT	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
123	HALL	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	OPEN	PT3	-
124	PVT. RSTRM.	CONC	FT	WT1	GB	WT1/PT1	GB	WT1/PT1	GB	WT1	GB	WT1/PT1	GB	PT1	-
125	GAS	CONC	VNL	VB3	GB	PT1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-
126	CLOSET	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
127	HALL	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
128	EQUIP.	CONC	VNL	VB3	GB	PT1	GB	FRP/PT1	GB	FRP/PT1	GB	PT1	-	ACT	-
129	UNISEX	CONC	FT	WT1	GB	WT1/PT1	GB	WT1/PT1	GB	WT1	GB	WT1/PT1	GB	PT1	-
130	LAUNDRY	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
131	BREAK	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
132	CLOSET	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
133	OFFICE	CONC	CPT	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
134	HALL	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
135	I.T.	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
136	OFFICE	CONC	CPT	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
137	CLOSET	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
138	CHECK-OUT	CONC	VNL	VB1	-	-	GB	PT1	-	-	GB	PT1	OPEN	PT3	-
139	RECOVERY	CONC	VNL	VB1	GB	PT1	GB	PT1	-	-	GB	PT1	-	ACT	-
140	TRT. 1	CONC	VNL	VB1	GB	PT1	GB	PT4	GB	PT1	GB	PT1	-	ACT	-
141	HALL	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
142	LAB.	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
143	TRT. 2	CONC	VNL	VB1	GB	PT1	GB	PT4	GB	PT1	GB	PT1	-	ACT	-
144	TRT. 3	CONC	VNL	VB1	GB	PT1	GB	PT4	GB	PT1	GB	PT1	-	ACT	-
145	TRT. 4	CONC	VNL	VB1	GB	PT4	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
146	PANO.	CONC	VNL	VB1	GB	PT1	GB	PT5	GB	PT1	-	-	-	ACT	-
147	HALL	CONC	VNL	VB1	-	-	GB	PT1	-	-	GB	PT1	OPEN	PT3	-
148	TRT. 5	CONC	VNL	VB1	GB	PT4	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
149	X-RAY	CONC	VNL	VB1	GB	PT1	GB	PT5	GB	PT1	-	-	-	ACT	-
150	TRT. 6	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
151	GAMES	CONC	VNL	VB1	GB	PT6	GB	PT6	GB	PT6	GB	PT6	-	ACT	-
152	HALL	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
153	UNISEX	CONC	FT	WT1	GB	WT1	GB	WT1/PT1	GB	WT1/PT1	GB	WT1/PT1	GB	PT1	-
154	CLOSET	CONC	CONC	VB2	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	-	-
155	WAITING	CONC	VNL	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	ACT	-
156	PRIZES	CONC	VNL	VB1	GB	PT1	-	-	GB	PT1	-	-	OPEN	PT3	-
157	VESTIBULE	CONC	GM	VB1	GB	PT1	GB	PT1	GB	PT1	GB	PT1	-	-	-

SCHEDULE NOTES

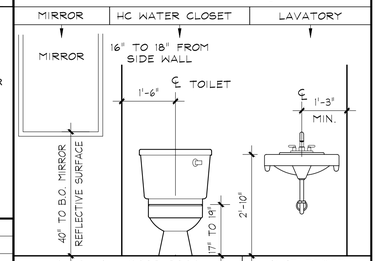
1. THIS SCHEDULE IS NOT ALL-ENCOMPASSING, REFER TO PLANS AND ELEVATIONS FOR ADDITIONAL FINISHES INFORMATION
2. SEE SHEET A1.2 FOR ADDITIONAL CEILING INFORMATION
3. SEE SHEET A1.3 FOR ADDITIONAL FINISHES INFORMATION

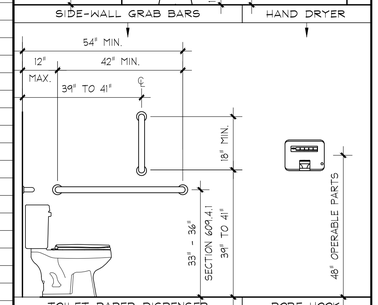
GENERAL DOOR NOTES

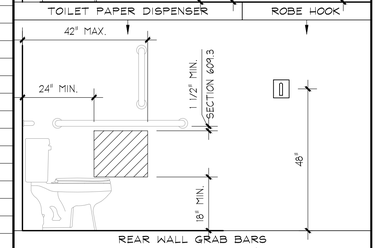
1. SEE A1.3 FOR ADDITIONAL FINISH INFORMATION
2. SUBMIT ALL FINISH SAMPLES TO OWNER FOR FINAL SELECTION/APPROVAL PRIOR TO ORDERING ANY MATERIAL
3. ALL CONTROLS AND OPERATING MECHANISMS TO BE INSTALLED AT MAX. 4'-0" A.F.F
4. THIS SCHEDULE IS NOT ALL-ENCOMPASSING, REFER TO PLANS AND ELEVATIONS FOR ADDITIONAL FINISHES INFORMATION

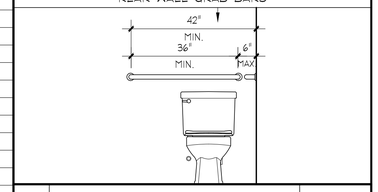
FIXTURE MOUNTING HEIGHTS

ALL FIXTURE MOUNTING HEIGHTS AND CLEARANCES TO COMPLY WITH ANSI A117.1 REQUIREMENTS - SCALE = $\frac{3}{4}$" = 1'-0"









No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net

BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

MATERIAL FINISH LEGEND
FINISH SCHEDULE, FIXTURE MOUNTING HEIGHT
PAINT PLAN

STATE OF COLORADO PAUL J. BATTISTA B-3015 05/09/2025 LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A0.1
Reviewed: PJB	
Date: May 2025	of

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DOOR HARDWARE SCHEDULE

	QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	REMARKS
HW SET: 01 DOORS: 107, 130, 131A, 131B, 133	1 EA		BLACK NYLON ROLLERS 6' TRACK LENGTH PRE-DRILLED HOLES FALCON STYLE OUTER PULL, 10" MODERN STYLE INNER PULL, 8"			BRUSHED STEEL FINISH FOR ALL PARTS RUSTICA HARDWARE: 1-800-891-8312
HW SET: 02 DOORS: 109, 110B, 140, 143, 144A, 144B, 145, 148, 150	3 EA 1 EA 1 EA 3 EA 1 EA	HINGE PASSAGE SET WALL STOP SILENCER KICK PLATE	5BB1 4.5 X 4.5 ALX10 SPA WS407CCV SR64 8400 10" X 2" LDW B-CS	652 626 630 GRY 630	IVE SCH IVE IVE IVE	
HW SET: 03 DOORS: 106, 124, 129, 153	3 EA 1 EA 1 EA 1 EA 1 EA 3 EA	HINGE PRIVACY LOCK SURFACE CLOSER KICK PLATE WALL STOP SILENCER	5BB1 4.5 X 4.5 ALX40 SPA ANSI FUNCTION F76 1450 RW/PA FC 8400 10" X 2" LDW B-CS WS406/407CCV SR64	652 626 689 630 630 GRY	IVE SCH LCN IVE IVE IVE	
HW SET: 04 DOORS: 132, 135, 137	3 EA 1 EA 1 EA 1 EA 3 EA	HINGE CLASSROOM LOCK OH STOP KICK PLATE SILENCER	5BB1 4.5 X 4.5 NRP ALX70PD SPA 90S 8400 10" X 2" LDW B-CS SR64	652 626 630 630 GRY	IVE SCH GLY IVE IVE	
HW SET: 05 DOORS: 125	3 EA 1 EA 1 EA 1 EA 3 EA 1 EA 1 EA	HINGE CLASSROOM LOCK PROTECTION PLATE WALL STOP SILENCER GASKETING DOOR BOTTOM	5BB1 4.5 X 4.5 NRP ALX70PD SPA 8400 10" X 2" LDW B-CS WS406/407CCV SR64 328AA 360AA	652 626 630 630 GRY AA AA	IVE SCH IVE IVE IVE ZER ZER	
HW SET: 06 DOORS: 128	3 EA 1 EA 1 EA 1 EA 3 EA 1 EA 1 EA	HINGE CLASSROOM LOCK PROTECTION PLATE OH STOP SILENCER GASKETING DOOR BOTTOM	5BB1 4.5 X 4.5 NRP ALX70PD SPA 8400 10" X 2" LDW B-CS 90S SR64 328AA 360AA	652 626 630 630 GRY AA AA	IVE SCH IVE GLY IVE ZER ZER	
HW SET: 07 DOORS: 113	1 SET 1 EA	POCKET DOOR HARDWARE (W/ SOFT CLOSE) POCKET DOOR PULL (PASSAGE FUNCTION)	100PDSC COMPLETE KIT 9100ADAL-5	630	JOH ALH	
HW SET: 08 DOORS: 110A	2 SETS 1 EA 1 SET	POCKET DOOR HARDWARE (W/ SOFT CLOSE) CONVERGING DOOR KIT POCKET DOOR PULL (BI-PARTING PASSAGE FUNCTION)	100PDSC COMPLETE KIT 1555PPK3 CL400	SATIN CHROME	JOH JOH CAS	
HW SET: 09 DOORS: 126, 154	1 EA 2 EA	BYPASS DOOR TRACK AND HARDWARE FLUSH PULL	200SD (SIZE AS REQUIRED) 962	626	JOH IVE	
HW SET: 10 DOORS: 122, 136	3 EA 1 EA 1 EA 3 EA	HINGE OFFICE LOCK WALL STOP SILENCER	5BB1 4.5 X 4.5 NRP ALX50PD SPA WS407CCV SR64	652 626 630 GRY	IVE SCH IVE IVE	
HW SET: 11 DOORS: 100, 157	3 EA 1 EA 1 EA 1 EA 1 EA 1 EA 3 EA	HINGE PANIC HARDWARE RIM CYLINDER SURFACE CLOSER PROTECTION PLATE WALL STOP SILENCER	5BB1HW 4.5 X 4.5 NRP 98-L-17 20-022 4050 RW/PA 8400 10" X 2" LDW B-CS WS407CCV SR64	652 626 626 689 630 630 GRY	IVE VON SCH LCN IVE IVE IVE	

DOOR HARDWARE SCHEDULE NOTES AND LEGEND:

Manufacturer Legend: Substitutions:

(GLY) Glynn Johnson Rixson, ABH
(IVE) Ives Hinges Stanley, McKinney
(IVE) Ives Trimco, Rockwood
(LCN) LCN No Substitution
(PEM) Pemko National Guard Products, Zero International
(SCH) Schlage No Substitution
(TRI) Trimco No Substitution
(HAF) Hafele No Substitution
(ALH) Accurate Lock & Hardware No Substitution
(PRL) PRL Glass Systems
(CRL) C.R. Laurence Co., Inc.
(CAS) Cavity Sliders, USA

Schedule Notes:

A. General:
1. Intent of Hardware Groups
a. The following schedule of hardware groups shall be considered a guide only. It shall be the hardware supplier's responsibility to furnish all required hardware.
b. Where items of hardware aren't definitely or correctly specified, are required for completion of the Work, a written statement of such omission, error, or other discrepancy to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality established by this specification, and appropriate to the service intended.
c. Adjustments to the Contract Sum will not be allowed for omissions or items of hardware not clarified prior to bid opening.
2. Furnish all items in US26D (BHMA 626/652), Satin Chrome unless otherwise specified, Closers shall be Powder Coated Aluminum. Trim and Flat Goods may be furnished in US32D (BHMA 630), Satin Stainless Steel.

B. Lock and Latchsets:
1. Hardware supplier shall verify all lock functions with Owner prior to ordering material.
2. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond doorframe trim.

C. Door Closers:
1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder.
2. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
3. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with accessibility requirements.
4. Door control devices backcheck shall be properly located for protection of the door, frame, and applied hardware.

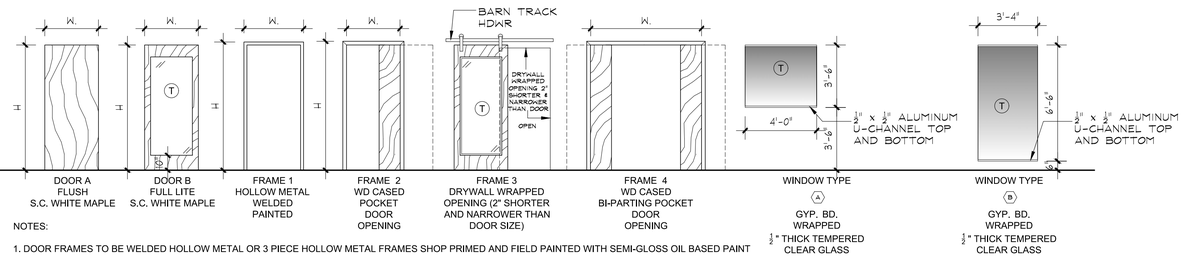
D. Cylinders and Keying:
1. Hardware supplier shall meet with the Owner to finalize keying requirements and obtain keying instructions in writing. All cylinders shall be masterkeyed by supplier as directed by Owner. Quantities of permanent keys will be as determined by the Owner. Permanent keys shall be stamped with the applicable key mark as determined by the Owner for identification and stamped "Do Not Duplicate". Deliver all permanent keys direct to Owner from supplier by secure courier return receipt requested. All cylinders shall be construction keyed, furnish 5 construction keys.

DOOR AND FRAME SCHEDULE

DOOR NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB(S)	DETAILS SILL	FIRE RATING	H W	REMARKS
100	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	11	ENTRANCE LOCK, KEYED CYLINDER LOCK ON OUTSIDE & PANIC BAR ON INSIDE
106	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	03	PRIVACY SET
107	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	3	-	-	-	-	-	-	01	SLIDING BARN DOOR HARDWARE
109	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
110A	PR. 2'-8"	7'-0"	1-3/4"	A	WD	STN	-	4	WD	STN	-	G1	-	-	08	BI-PARTING POCKET DOORS WITH SOFT CLOSE HARDWARE AND PASSAGE FUNCTION
110B	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
113	3'-2"	7'-0"	1-3/4"	B	WD	STN	GL2	3	WD	STN	-	G1	-	-	07	POCKET DOOR WITH SOFT CLOSE HARDWARE AND PASSAGE FUNCTION
122	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	10	OFFICE LOCK
124	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	03	PRIVACY SET
125	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	60 MIN.	05	CLASSROOM LOCK WITH DOOR BOTTOM, CLOSER AND SMOKE SEALS
126	PR. 3'-0"	7'-0"	1-3/4"	A	WD	STN	-	-	-	-	-	-	-	-	09	BY-PASS DOORS WITH SOFT-CLOSE HARDWARE
128	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	06	CLASSROOM LOCK WITH OVERHEAD STOP, CLOSER AND SOUND SEALS
129	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	03	PRIVACY SET
130	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	2	-	-	-	-	-	-	01	SLIDING BARN DOOR HARDWARE
131A	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	3	-	-	-	-	-	-	01	SLIDING BARN DOOR HARDWARE
131B	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	3	-	-	-	-	-	-	01	SLIDING BARN DOOR HARDWARE
132	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	04	CLASSROOM LOCK WITH OVERHEAD STOP
133	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	3	-	-	-	-	-	-	01	SLIDING BARN DOOR HARDWARE
135	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	02	CLASSROOM LOCK WITH OVERHEAD STOP
136	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	10	OFFICE LOCK
137	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	04	CLASSROOM LOCK WITH OVERHEAD STOP
140	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
143	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
144A	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
144B	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
145	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
148	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
150	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	02	PASSAGE SET
153	3'-0"	7'-0"	1-3/4"	A	WD	STN	-	1	HM	PNT	Q1	Q1	-	-	03	PRIVACY SET
154	PR. 3'-0"	7'-0"	1-3/4"	A	WD	STN	-	-	-	-	-	-	-	-	09	BY-PASS DOORS WITH SOFT-CLOSE HARDWARE
157	3'-0"	7'-0"	1-3/4"	B	WD	STN	GL2	1	HM	PNT	Q1	Q1	-	-	11	ENTRANCE LOCK, KEYED CYLINDER LOCK ON OUTSIDE & PANIC BAR ON INSIDE

DOOR, FRAME AND WINDOW TYPES

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



DOOR A
FLUSH
S.C. WHITE MAPLE

DOOR B
FULL LITE
S.C. WHITE MAPLE

FRAME 1
HOLLOW METAL
WELDED
PAINTED

FRAME 2
WD CASED
POCKET
DOOR
OPENING

FRAME 3
DRYWALL WRAPPED
OPENING (2" SHORTER
AND NARROWER THAN
DOOR SIZE)

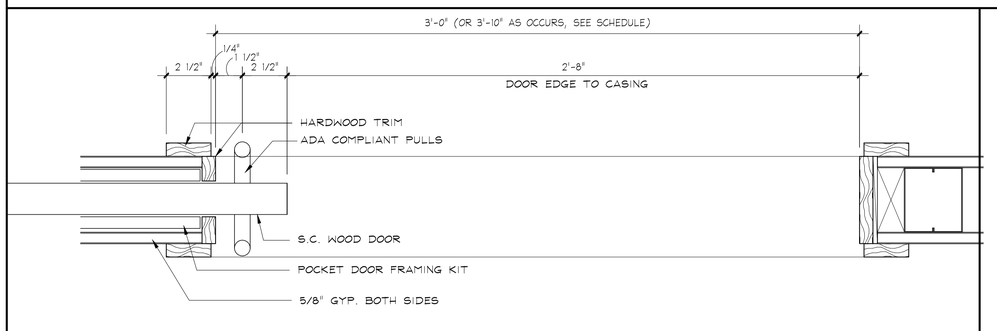
FRAME 4
WD CASED
BI-PARTING POCKET
DOOR
OPENING

WINDOW TYPE
(A)
GYP. BD.
WRAPPED
½" THICK TEMPERED
CLEAR GLASS

WINDOW TYPE
(B)
GYP. BD.
WRAPPED
½" THICK TEMPERED
CLEAR GLASS

NOTES:

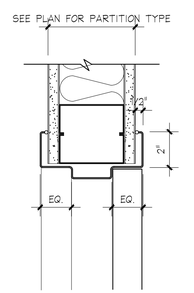
1. DOOR FRAMES TO BE WELDED HOLLOW METAL OR 3 PIECE HOLLOW METAL FRAMES SHOP PRIMED AND FIELD PAINTED WITH SEMI-GLOSS OIL BASED PAINT
2. SUBMIT SHOP DRAWINGS AND SAMPLES FOR REVIEW
3. (T) INDICATES TEMPERED GLASS
4. ALL GLASS DOORS TO RECEIVE 3M YAMOTO FILM EXCEPT FOR EXISTING EXTERIOR DOORS, CONFIRM WITH OWNER
5. DOOR FINISH TO BE SELECTED FROM VT INDUSTRIES STANDARD FINISHES, PROVIDE SAMPLES TO OWNER FOR SELECTION



G1 POCKET DOOR JAMB

3"=1'-0"

RE:



Q1 H.M. DOOR FRAME

3"=1'-0"

RE: AT HEAD (JAMB SIMILAR)

GENERAL NOTES

1. SEE A1.2, A1.3 AND INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH INFORMATION
2. SUBMIT ALL FINISH SAMPLES TO OWNER FOR FINAL SELECTION/APPROVAL PRIOR TO ORDERING ANY MATERIAL

No	Revision / Submissions	Date

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
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DOOR HARDWARE SCHEDULE
DOOR-FRAME SCHEDULE

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/09/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
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Date: May 2025	of

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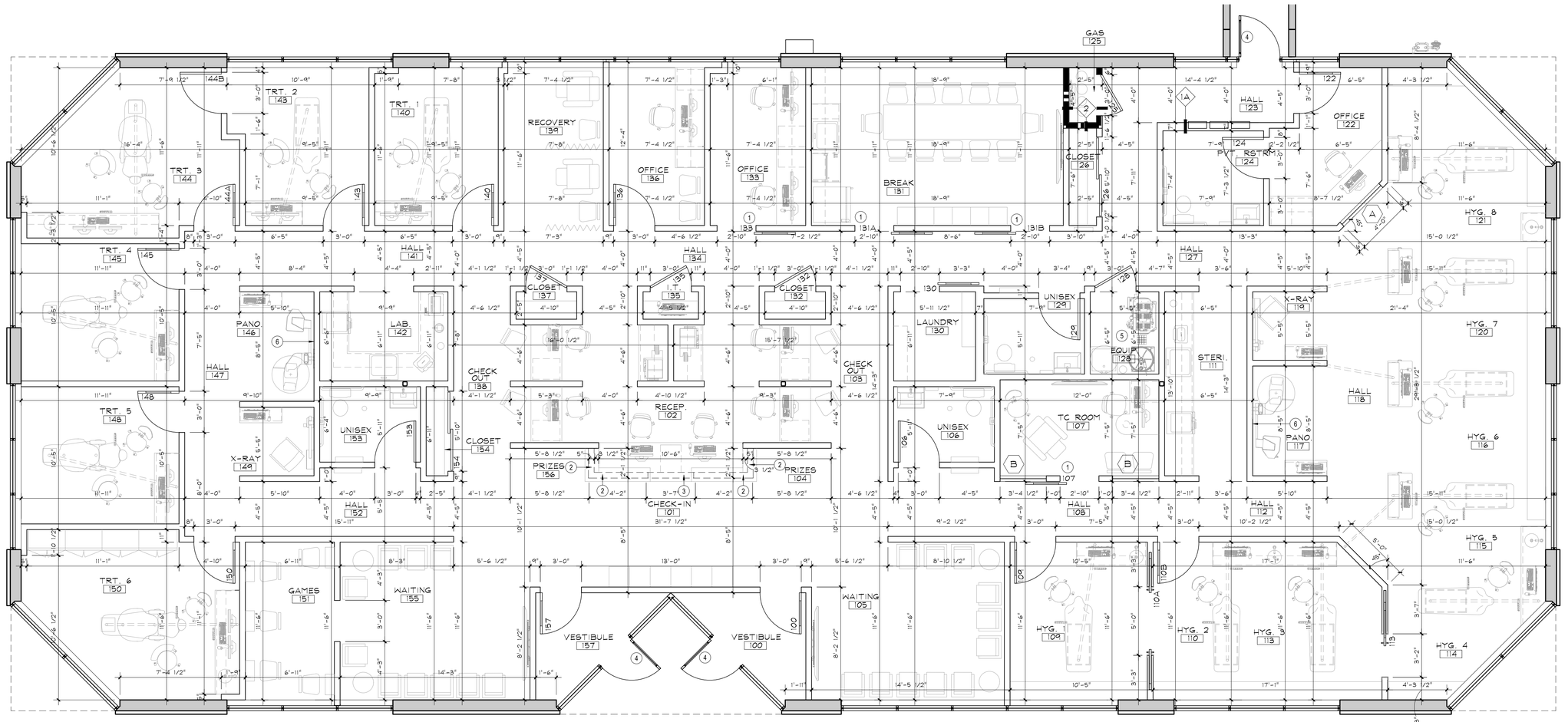
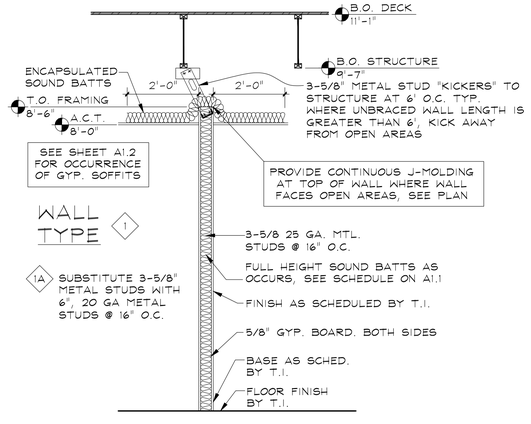


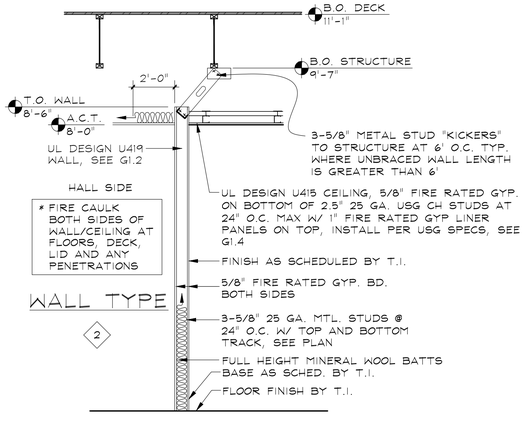
NORTH

N1	FLOOR PLAN
1/4"=1'-0"	RE:

Plan Legend:

- EXISTING TO REMAIN
- NEW PARTITION
- 1 HOUR PARTITION





A1	WALL TYPES
1/2"=1'-0"	RE:

NOTES:

1. DIMENSIONS TO WALLS ARE FACE OF FINISH UNLESS NOTED OTHERWISE. DIMENSIONS GOVERN OVER SCALING OF DRAWINGS. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT.

2. VERIFY EXISTING WALLS IN FIELD

3. WHERE DOORS IN FRAMED PARTITIONS ARE NOT SPECIFICALLY LOCATED ON THE PLANS, PROVIDE A MINIMUM HINGE SIDE JAMB DIMENSION OF 6" FROM DOOR OPENING TO ADJACENT PERPENDICULAR WALLS.

4. PROVIDE CAULK OR SEALANT AT ALL JOINTS OR CRACKS WHERE DISSIMILAR MATERIALS INTERSECT AND ARE PERPENDICULAR TO EACH OTHER, AND THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE.

5. ALL NEW WALL TYPES ARE WALL TYPE 1 UNLESS NOTED OTHERWISE

6. PATCH AND PRIME EXISTING WALLS TO REMAIN AS REQUIRED TO ACCEPT FINISH BY T.I.

7. PRIME AND PAINT NEW AND EXISTING WALL SURFACES W/ PAINT PER FINISH SCHEDULE.

8. FIRE CAULK ALL PENETRATIONS THROUGH ANY RATED ASSEMBLIES, V.I.F.

9. INSTALL FULL HT. & WIDTH SOUND BATTS IN ALL INTERIOR PARTITIONS

KEYNOTES:

1. PROVIDE 2X6 BACKING IN HEADER AND ADJACENT WALL
2. T.O. STEEL FRAMING @ + 40⅝"
3. T.O. STEEL FRAMING @ + 28⅝"
4. PERFORM EXISTING DOOR MAINTENANCE TO INCLUDE LUBRICATION OF HINGES AND OTHER OPERABLE PARTS, REPAIR/REPLACEMENT OF ALL DAMAGED OR BROKEN DOOR AND FRAME COMPONENTS. ENSURE PROPER FUNCTION OF DOOR AND FRAME. VERIFY IN FIELD.
5. PROVIDE ⅝" THICK QUIETROCK ALL WALLS THIS ROOM, FULL HEIGHT
6. PROVIDE 2 LAYERS PLYWOOD BACKING FROM FLOOR TO +96" A.F.F., THIS WALL FULL WIDTH

Wall Insulation Schedule:

- ALL PARTITIONS, FULL HEIGHT

No	Revision / Submissions	Date

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NEW FLOOR PLAN

STATE OF COLORADO PAUL J. BATTISTA B-3015 05/09/2025 LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A1.1
Reviewed: PJB	
Date: May 2025	of

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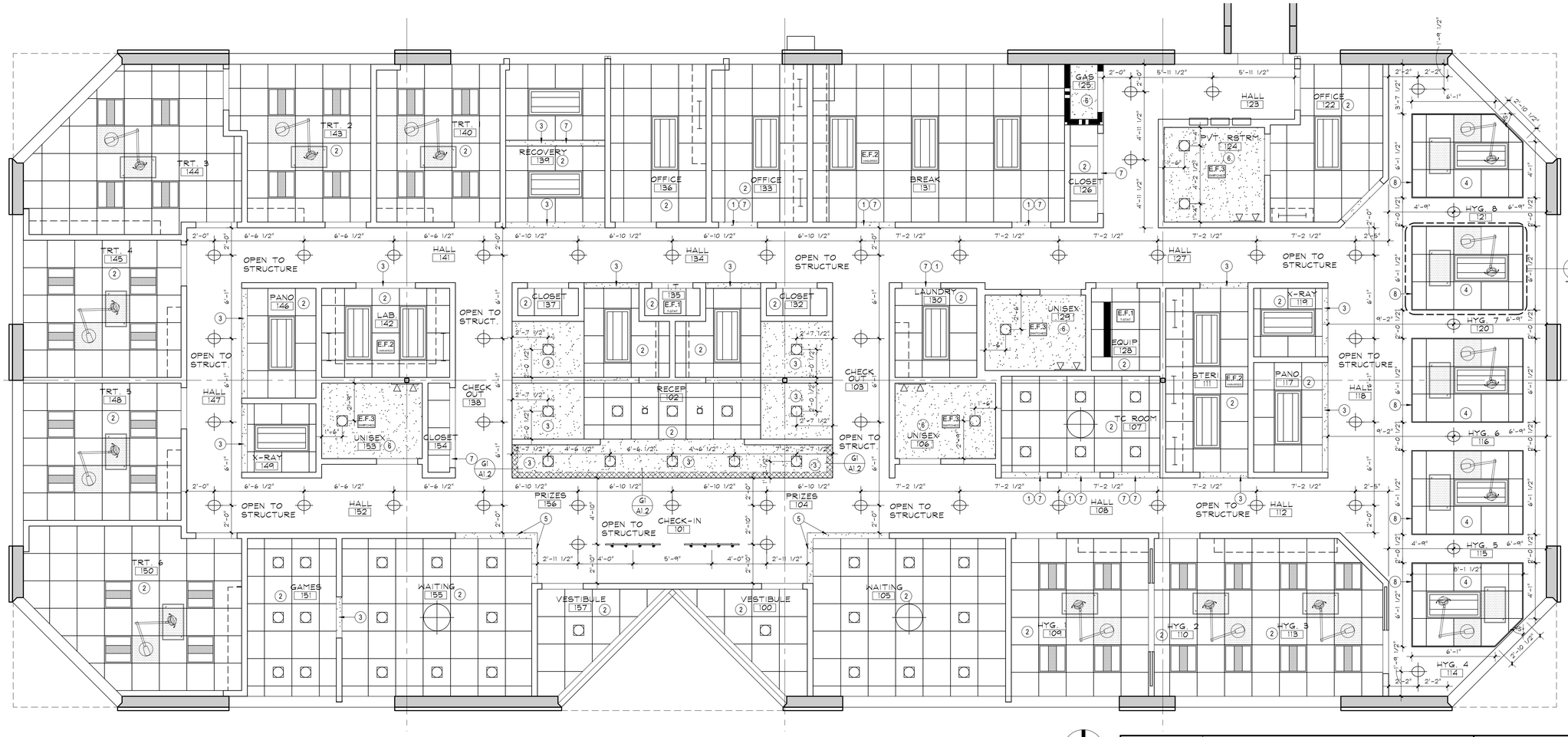


NOTES:

1. PATCH/REPAIR ALL EXISTING GYP. CEILINGS TO REMAIN, V.I.F.
2. GYP. CEILINGS AND SOFFITS TEXTURE TO BE SMOOTH LEVEL 4
3. SEE M AND E DRAWINGS FOR ADDITIONAL CEILING DEVICES INFORMATION, NOTIFY ARCH. OF ANY DISCREPANCIES. LIGHTING LOCATIONS SHALL TAKE PRECEDENCE
4. SEE SHEET A0.1 AND A1.3 FOR FINISHES INFORMATION
5. AT EACH DENTAL LIGHT OR MONITOR LOCATION (AS OCCURS), PROVIDE 2 LAYERS OF 2'x2', 3/4" FIRE TREATED PLYWOOD, GLUED AND SCREWED FIELD VERIFY
6. RUN ALL PIPING, DUCTWORK, CONDUIT, ETC. AS TIGHT TO B.O. STRUCTURE AS POSSIBLE

KEYNOTES:

1. GYP. SOFFIT, CEILING OR HEADER @ 6'-10" A.F.F.
2. NEW CEILING GRID AND TILE @ 8'-0" ± A.F.F.
3. GYP. SOFFIT, CEILING OR HEADER @ 7'-6" A.F.F.
4. B.O. CLOUD FEATURE @ 8'-0" A.F.F.
5. GYP. SOFFIT, CEILING OR HEADER @ 7'-0" A.F.F.
6. GYP. SOFFIT, CEILING OR HEADER @ 8'-0" A.F.F.
7. PROVIDE 2X6 BACKING IN HEADER FOR DOORS/CURTAINS
8. 6" ARMSTRONG AXIOM TRIM CLOUD FEATURE WITH VINYL ENCAPSULATED INSULATION, TYP.

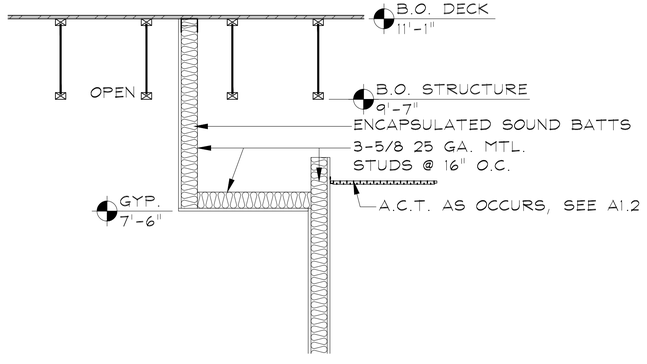
Lighting/Ceiling Legend:

- DELRAY PENDANT STYLE FIXTURE INSTALLED BY G.C., MOUNT TO UNISTRUT AS REQUIRED
- 4' UTILITY LED LIGHT FIXTURE
- 2X4 DIRECT/INDIRECT DIMMABLE LED LIGHT FIXTURES
- 4' LED TRACK LIGHTING ON DIMMER, 4 HEADS
- WALL MOUNTED VANITY LIGHT PROVIDED BY OWNER, INSTALLED BY G.C.
- RECESSED LED CAN LIGHT
- ADJ. MONOPOINT WALL WASHER ON DIMMER
- LARGE SEMI FLUSH OR SUSPENDED PENDANT LIGHT (PROVIDED BY OWNER) INSTALLED BY G.C. ON DIMMER BY G.C.
- UNDER CABINET LIGHT, OR UTILITY STRIP LIGHT
- BACKING IN CEILING, 2 LAYERS ¾" FIRE TREATED PLYWOOD
- 2X2 DIRECT/INDIRECT DIMMABLE LED LIGHT FIXTURES
- CEILING MOUNTED MONITOR, PROVIDED POWER DATA AND BACKING
- CEILING MOUNTED DENTAL LIGHT, PROVIDED POWER AND BACKING
- E.F.1 T-STAT — THERMOSTATICALLY CONTROLLED EXHAUST FAN, SEE M SHEETS
- E.F.2 vari-speed — VARIABLE SPEED EXHAUST FAN, SEE M SHEETS
- E.F.3 switched — SWITCHED EXHAUST FAN, SEE E & M SHEETS

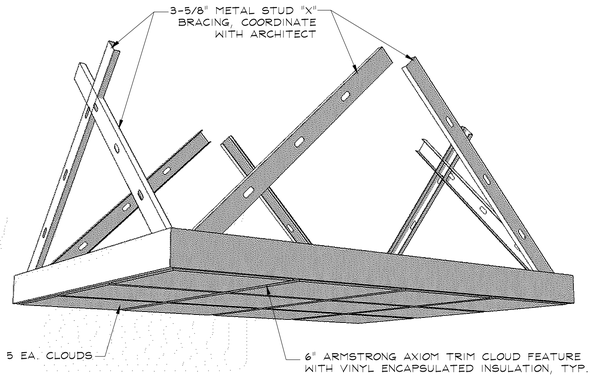
NORTH

N5	NEW CEILING PLAN
1/4"=1'-0"	RE:

Plan Legend:
- EXISTING TO REMAIN
- NEW PARTITION
- 1 HR. RATED PARTITION



G1	SOFFIT SECTION
3/4"=1'-0"	RE:



N1	CLOUD BRACING DETAIL
N.T.S.	RE:

No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4695
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

NEW CEILING PLAN

STATE OF COLORADO — PAUL J. BATTISTA — B-30151 — 05/09/2025 — LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A1.2
Reviewed: PJB	
Date: May 2025	of

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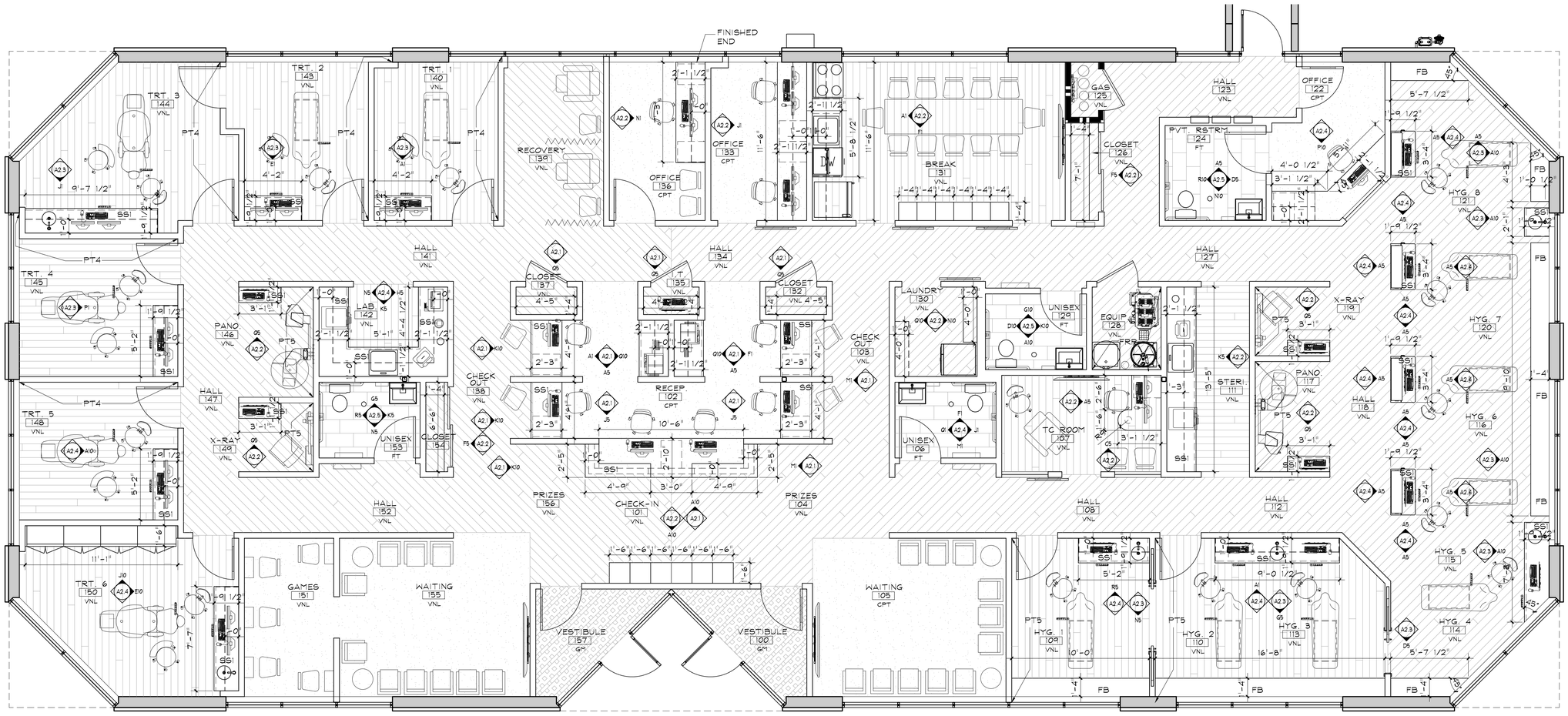

A6 FLOOR FINISH PLAN

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

NORTH

MILLWORK SCHEDULE

ROOM	NO.	COUNTERTOP	SPLASH	UPPERCABS	LOWERCABS	NOTES
VESTIBULE	100	-	-	-	-	-
CHECK-IN	101	-	-	-	-	PRIZE CUBBIES TO BE CLAD WITH 6" PAINTED SHIPLAP PLANKS WITH 1/8" GAP BETWEEN
RECEP.	102	PL2	PL2	PL1	PL1	TRANSACTION TOP TO BE SS1
CHECK-OUT	103	SS1	SS1	-	PL2	-
PRIZES	104	-	-	-	-	-
WAITING	105	-	-	-	-	-
UNISEX	106	-	-	-	-	-
TC ROOM	107	SS1	SS1	PL1	PL1	-
HALL	108	-	-	-	-	-
HYG. 1	109	SS1	SS1	PL1	PL1	-
HYG. 2	110	SS1	SS1	PL1	PL1	-
STERI.	111	SS1	SS1	PL1	PL1	-
HALL	112	-	-	-	-	-
HYG. 3	113	SS1	SS1	PL1	PL1	-
HYG. 4	114	SS1	SS1	-	PL1	BENCHES TO BE PL1 WITH 4" THICK FB COVERED CUSHION
HYG. 5	115	SS1	SS1	PL1	PL1	BENCHES TO BE PL1 WITH 4" THICK FB COVERED CUSHION
HYG. 6	116	SS1	SS1	PL1	PL1	BENCHES TO BE PL1 WITH 4" THICK FB COVERED CUSHION
PANO.	117	SS1	SS1	-	PL1	-
HALL	118	-	-	-	-	-
X-RAY	119	SS1	SS1	-	PL1	-
HYG. 7	120	SS1	SS1	PL1	PL1	BENCHES TO BE PL1 WITH 4" THICK FB COVERED CUSHION
HYG. 8	121	SS1	SS1	PL1	PL1	BENCHES TO BE PL1 WITH 4" THICK FB COVERED CUSHION
OFFICE	122	PL2	PL2	PL1	PL1	-
HALL	123	-	-	-	-	-
PVT. RSTRM.	124	-	-	-	-	-
GAS	125	-	-	-	-	-
CLOSET	126	-	-	-	-	WHITE MELAMINE ADJUSTABLE SHELVING
HALL	127	-	-	-	-	-
EQUIP.	128	-	-	-	-	-

ROOM	NO.	COUNTERTOP	SPLASH	UPPERCABS	LOWERCABS	NOTES
UNISEX	129	-	-	-	-	-
LAUNDRY	130	-	-	-	-	WHITE MELAMINE ADJUSTABLE SHELVING
BREAK	131	PL2	PL2	PL1	PL1	LOCKERS TO BE PL1
CLOSET	132	-	-	-	-	WHITE MELAMINE ADJUSTABLE SHELVING
OFFICE	133	PL2	PL2	PL1	PL1	-
HALL	134	-	-	-	-	-
I.T.	135	-	-	-	-	WHITE MELAMINE ADJUSTABLE SHELVING
OFFICE	136	PL2	PL2	PL1	PL1	-
CLOSET	137	-	-	-	-	WHITE MELAMINE ADJUSTABLE SHELVING
CHECK-OUT	138	SS1	SS1	-	PL2	-
RECOVERY	139	-	-	-	-	-
TRT. 1	140	SS1	SS1	PL1	PL1	-
HALL	141	-	-	-	-	-
LAB.	142	SS1	SS1	PL1	PL1	-
TRT. 2	143	SS1	SS1	PL1	PL1	-
TRT. 3	144	SS1	SS1	PL1	PL1	-
TRT. 4	145	SS1	SS1	PL1	PL1	-
PANO.	146	SS1	SS1	-	PL1	-
HALL	147	-	-	-	-	-
TRT. 5	148	SS1	SS1	PL1	PL1	-
X-RAY	149	SS1	SS1	-	PL1	-
TRT. 6	150	SS1	SS1	PL1	PL1	PANTRIES TO BE PL1
GAMES	151	-	-	-	-	-
HALL	152	-	-	-	-	-
UNISEX	153	-	-	-	-	-
CLOSET	154	-	-	-	-	-
WAITING	155	-	-	-	-	-
PRIZES	156	-	-	-	-	-
VESTIBULE	157	-	-	-	-	-

NOTES:

1. SEE SHEET A0.1 FOR FINISH SCHEDULE AND LEGEND
2. ALL WALLS PT1 UNLESS NOTED OTHERWISE
3. FOR GYP. CEILING/SOFFIT PAINT SEE FINISH SCHEDULE ON SHEET A0.1
4. LOOSE FURNISHINGS SHOWN ARE FOR DIAGRAMMATIC PURPOSES ONLY. ALL LOOSE FURNISHINGS TO BE PROVIDED BY OWNER
5. SEE A1.2 FOR CEILINGS INFORMATION
6. H.M. DOOR FRAMES TO BE PAINTED IN AN OIL-BASED SEMI-GLOSS, SEE SHEET A0.1
7. WALL AND SOFFIT TEXTURE TO BE SMOOTH LEVEL 4
8. G.C. TO COORDINATE SINK SIZES AND ASSOCIATED CABINETS TO ENSURE PROPER FIT
9. CROSS-REFERENCE THIS SHEET WITH ELEVATIONS AND SCHEDULES SHEETS
10. PROVIDE $6,500 ALLOWANCE FOR FLOOR PREP.

Plan Legend:

- EXISTING TO REMAIN
- NEW PARTITION
- 1 HR. RATED PARTITION

No	Revision / Submissions	Date

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FLOOR FINISH PLAN
MILLWORK SCHEDULE

STATE OF COLORADO PAUL J. BATTISTA B-3015 05/09/2025 LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
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Reviewed: PJB	
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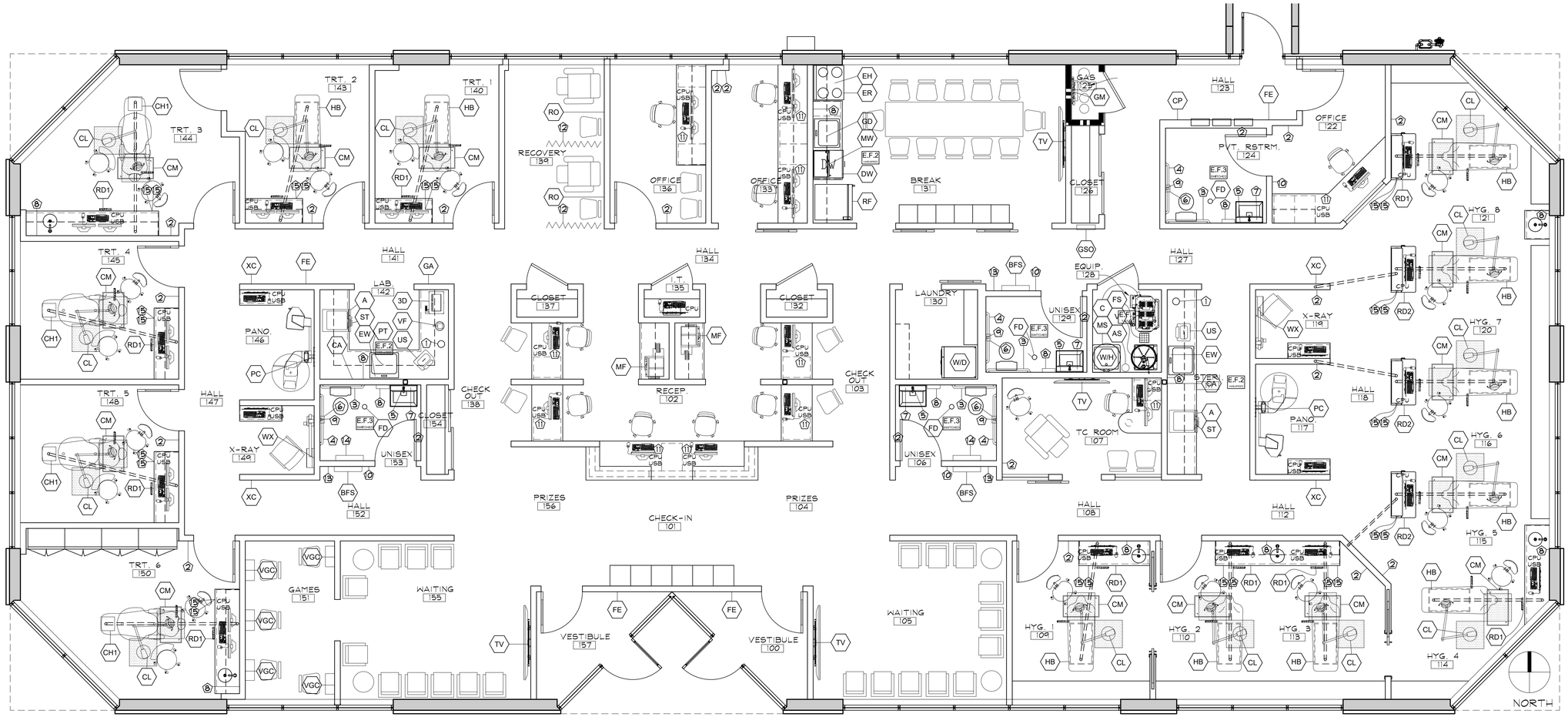

EQUIPMENT SCHEDULE

(See additional information provided by the dental Equipment supplier. Dental specific equipment information provided by the dental equipment supplier supercede information in this Equipment schedule)

Legend: V = Vendor O = Owner C = Contractor

		INSTALLED BY:	PROVIDED BY:
ALL OPERATORIES/TREATMENT AREAS			
CH1	DENTAL CHAIR, PROVIDE TOMBSTONE QUAD RECEPTACLE, COMPRESSED AIR, VACUUM AND 2" CONDUIT TO REAR DELIVERY	V	V/C
HB	HYGIENE BENCH, PROVIDE TOMBSTONE QUAD RECEPTACLE, COMPRESSED AIR, VACUUM AND 2" CONDUIT TO REAR DELIVERY	V	V/C
RD1	REAR DELIVERY, PROVIDE QUAD POWER IN CABINET BASE, DUPLEX RECEPTACLE W/ USB ABOVE COUNTER, J-BOX FOR DATA, COMPRESSED AIR, VACUUM, MED GASSES AND 2 " CONDUIT TO CHAIR/BENCH	C	V/C
RD2	REAR DELIVERY, PROVIDE QUAD POWER IN CABINET BASE, DUPLEX RECEPTACLE W/ USB ABOVE COUNTER, J-BOX FOR DATA, COMPRESSED AIR, VACUUM, MED GASSES AND 2 " CONDUIT TO CHAIR/BENCH AND NEAREST WALL. SEE PLAN	C	V/C
CL	CEILING MOUNTED DENTAL LIGHT, PROVIDE POWER, AND BACKING	V	V/C
CM	CEILING MOUNTED MONITOR, POWER, DATA AND BACKING	V	V/C
CPU	CPU LOCATION, VERIFY WITH OWNER AND OWNER'S VENDOR, PROVIDE QUAD POWER, VOICE AND DATA	V	V/C
USB	LEVITON 3.6A USB TYPE-A/TYPE-A WALL OUTLET CHARGER WITH 20A TAMPER-RESISTANT RECEPTACLES	C	C
STERILIZATION - 111			
EW	EMERGENCY EYEWASH STATION, SEE P SHEETS	C	C
US	ULTRASONIC CLEANER	V	V/C
A	AUTOCLAVE	V	V
CA	COMPRESSED AIR STATION	V	V/C
E.F.2 VARI-SPEED	VARIABLE SPEED EXHAUST FAN, SEE M SHEETS	C	C
ST	STATIM ON SHORTENED PULL-OUT DRAWER, PROVIDE SWITCHED POWER OUTLET BELOW COUNTER	V	V/C
IMAGING - 117			
CPU	CPU LOCATION, VERIFY WITH OWNER AND OWNER'S VENDOR, PROVIDE QUAD POWER, VOICE AND DATA	V	V/C
USB	LEVITON 3.6A USB TYPE-A/TYPE-A WALL OUTLET CHARGER WITH 20A TAMPER-RESISTANT RECEPTACLES	C	C
XC	X-RAY CONTROL (LOW VOLTAGE)	V	V/C

IMAGING - 117			
PC	PANORAMIC/CEPHALOMETRIC X-RAY, PROVIDE 115V/20A OR 220V/20A, POWER, VERIFY WITH EQUIPMENT SUPPLIER, DATA AND BACKING IN WALL (2 LAYERS 4' x 8' x 3/4" PLWD. FULL HEIGHT/ WIDTH) COORDINATE SHIELDING WITH EQUIPMENT SUPPLIER, VERIFY THE NECESSITY OF LEAD LINED DRYWALL PRIOR TO DRYWALLING	V	V/C
X-RAY -119			
CPU	CPU LOCATION, VERIFY WITH OWNER AND OWNER'S VENDOR, PROVIDE QUAD POWER, VOICE AND DATA	V	V/C
USB	LEVITON 3.6A USB TYPE-A/TYPE-A WALL OUTLET CHARGER WITH 20A TAMPER-RESISTANT RECEPTACLES	C	C
XC	X-RAY CONTROL (LOW VOLTAGE)	V	V/C
WX	WALL MOUNTED X-RAY, PROVIDE POWER AND BACKING IN WALL (2 EA. 4x4 POSTS FLOOR TO STRUCTURE)	V	V/C
GAS -125			
GM	GAS MANIFOLD, PROVIDE DUPLEX POWER AND J-BOX FOR DATA, VENT TO OUTSIDE, FIRE WRAP DUCTS TO EXTERIOR WALL PENETRATION, SEE M SHEETS	V	V/C
GA	GAS MANIFOLD ALARM, PROVIDE J-BOX	V	V/C
GSO	NITROUS OXIDE & OXYGEN EMERGENCY SHUT-OFF VALVE SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY ASSE 6010 CERTIFIED PLUMBER ON BRANCH LINES BETWEEN MANIFOLD & TREATMENT ROOMS. SILVER SOLDERED TYPE K OR L COPPER LINES ONLY. FOLLOW NFPA 99 CODES.	C	C
RECOVERY -139			
RO	RECOVERY OUTLET, PROVIDE DUPLEX POWER, STUB OUT VACUUM AND MED GASSES COORDINATE WITH DENTAL EQUIPMENT SUPPLIER	C	C
I.T. -135			
CPU	CPU LOCATION, VERIFY WITH OWNER AND OWNER'S VENDOR, PROVIDE QUAD POWER, VOICE AND DATA	V	V/C
PB	PHONE BOARD, 3'X3' PLYWOOD, QUAD RECEPTACLE @ +72" AND QUAD RECEPTACLE @ +18" (DATA CABLE BUNDLE ORIGINATES HERE)	C	C
E.F.1 T-STAT	THERMOSTATICALLY CONTROLLED EXHAUST FAN, SEE M SHEETS	C	C
EQUIPMENT -128			
C	COMPRESSOR, PROVIDE DISCONNECT, SEE EQ, P & E SHEETS	V	V/C
V	DRY VACUUM PUMP, PROVIDE DISCONNECT, HARD PIPE TO DISCHARGE	V	V/C
AS	AMALGAM SEPARATOR, PROVIDE BACKING	V	V/C
E.F.1 T-STAT	THERMOSTATICALLY CONTROLLED EXHAUST FAN, SEE M SHEETS	C	C
FS	NEW FLOOR SINK, SEE PLUMBING SHEETS	C	C

EQUIPMENT -128			
MS	NEW MOP SINK AND FAUCET	C	C
W/H	NEW WATER HEATER , DRAIN INTO FLOOR DRAIN	C	C
BREAK - 131			
ER	ELECTRIC RANGE, PROVIDE POWER, COORDINATE WITH OWNER	O	C
EH	EXHAUST HOOD, PROVIDE POWER AND VENT, SEE M SHEETS	O	C
RF	REFRIGERATOR (BY OWNER), PROVIDE POWER AND COLD WATER CONNECTION FOR ICE MAKER	O	C
MW	MICROWAVE (BY OWNER) ON SHELF ABOVE COUNTER, PROVIDE POWER AT 60" A.F.F.	O	C
GD	GARBAGE DISPOSAL, PROVIDE POWER AND SWITCH	C	C
E.F.2 VARI-SPEED	VARIABLE SPEED EXHAUST FAN, SEE M SHEETS	C	C
DW	DISHWASHER, PROVIDE WATER AND POWER	O	C
TV	WALL MOUNTED, FLAT PANEL TELEVISION, PROVIDE POWER, DATA AND BACKING	O	O/C
OTHER			
CPU	CPU LOCATION, VERIFY WITH OWNER AND OWNER'S VENDOR, PROVIDE QUAD POWER, VOICE AND DATA	V	V/C
USB	LEVITON 3.6A USB TYPE-A/TYPE-A WALL OUTLET CHARGER WITH 20A TAMPER-RESISTANT RECEPTACLES	C	C
MF	MULTI-FUNCTION PRINTER/COPIER/FAX, PROVIDE POWER AND DATA	V	V/C
FE	SEMI RECESSED FIRE EXTINGUISHER CABINET PER FIRE DEPARTMENT REQUIREMENTS	C	C
TV	WALL MOUNTED, FLAT PANEL TELEVISION, PROVIDE POWER, DATA AND BACKING	O	O/C
CP	LOW VOLTAGE CONTROL PANEL FOR WATER, COMPRESSOR AND VACUUM SHUT-OFF	V	V/C
FD	NEW FLOOR DRAIN, SEE PLUMBING SHEETS	C	C
BFS	ELKAY LZWSSM EZH2O SURFACE MOUNT FILTERED BOTTLE FILLING STATION WITH DRAIN TO SANITARY SEWER, SEE P SHEETS	C	C
W/D	WASHER & DRYER BY OWNER, PROVIDE POWER, HOT/COLD WATER, DRAIN & VENT, COORD. W/ OWNER PRIOR TO INSTALLATION OF PLUMBING & ELECTRICAL	O	O/C
VGC	VIDEO GAME CONSOLE, PROVIDE POWER AND BACKING IN WALL	O	O/C
E.F.3 SWITCHED	SWITCH CONTROLLED EXHAUST FAN, SEE M SHEETS	C	C

LABORATORY - 142			
3D	3D PRINTING UNIT, PROVIDE POWER AND DATA	V	VC
EW	EMERGENCY EYEWASH STATION, SEE P SHEETS	C	C
US	ULTRASONIC CLEANER	V	V/C
A	AUTOCLAVE	V	V
CA	COMPRESSED AIR STATION	V	V/C
E.F.2 VARI-SPEED	VARIABLE SPEED EXHAUST FAN, SEE M SHEETS	C	C
ST	STATIM ON SHORTENED PULL-OUT DRAWER, PROVIDE SWITCHED POWER OUTLET BELOW COUNTER	V	V/C
PT	PLASTER TRAP UNDER SINK, CONNECT TO WASTE PIPING - THIS CABINET COMPARTMENT HAS NO BOTTOM AND FIXED TOE KICK	V	V/C
VF	VACUUM FORMER, PROVIDE POWER	V	VC

P6	EQUIPMENT PLAN
1/4"=1'-0"	RE:

Plan Legend:
- EXISTING TO REMAIN
- NEW PARTITION
- 1 HR. RATED PARTITION

GENERAL NOTES:

1. SEE DENTAL EQUIPMENT PLANS AND M/E/P DRAWINGS FOR ADDITIONAL EQUIPMENT AND UTILITIES INFORMATION

2. COORDINATE EXACT PLACEMENT OF ALL FLOOR, CABINET AND WALL DENTAL EQUIPMENT BACKING AND UTILITY ROUGH-IN REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER

3. COORDINATE ELECTRICAL BOXES WITH THIS PLAN, E SHEETS AND INTERIOR ELEVATIONS

4. COMPUTER NETWORK WIRING, PHONE SYSTEM WIRING, SOUND SYSTEM WIRING, SECURITY AND VIDEO SYSTEM WIRING TO BE BY OWNER'S TECHNOLOGY CONSULTANT.

5. PRICING TO INCLUDE 10 EXTRA DUPLEX RECEPTACLES, J-BOXES, CONDUIT AND 10'-0" OF WIRING FOR EACH ADDED RECEPTACLE - TO BE LOCATED AT BOX WALK

ACCESSORY SCHEDULE

NO.	DESCRIPTION
1	THRU CAB. BOTTOM TOWEL DISPENSER - GREENO, #1T WITH THROUGH CABINET MOUNTING KIT - 1-800-425-5046
2	BOBRICK B-76717 COAT HOOK, MOUNT ON INSIDE FACE OF DOOR OR WALL, SEE A1.4
3	36" GRAB BAR, BRUSHED STAINLESS
4	42" LONG GRAB BAR, BRUSHED STAINLESS
5	MIRROR, 24" X 36" GLASS WITH STAINLESS TRIM
6	BRUSHED STAINLESS TOILET PAPER HOLDER, SURFACE MTD., W/ EXTRA ROLL STORAGE B-2840
7	SOAP DISPENSERS BY OWNER, TYP., (NOT SHOWN ON PLANS)
8	BRUSHED STAINLESS PAPER TOWEL DISPENSER, SURFACE MOUNTED B-2621, NON-LOCKING, KNOB LATCH
9	BRUSHED STAINLESS 18" VERTICAL GRAB BAR
10	ADA PLACARD
11	MOCKETT CPU1A OR EQUAL UNDER-COUNTER CPU BRACKET
12	OWNER PROVIDED CURTAIN AND CURTAIN ROD, COORDINATE WITH OWNER
13	ASI 0002-SM, STAINLESS STEEL SURFACE MOUNTED PAPER CUP DISPENSER
14	KOALA KB300-SS HORIZONTAL SURFACE-MOUNTED WITH STAINLESS STEEL VENEER
15	THROUGH CAB. GLOVE DISP., GREENO #GBH-S W/ RECTANGULAR GROMMET 1-800-425-5046

1. VERIFY EXISTING RESTROOM ACCESSORIES TO BE RE-USED , COORDINATE W/ OWNER AND ARCHITECT
2. SEE PLAN THIS SHEET FOR ACCESSORY LOCATIONS
3. PROVIDE NECESSARY BACKING FOR ALL WALL MTD. EQUIP. & ACCESSORIES, COORD. W/ OTHER VENDERS AS REQ.
4. MODEL #'S SHOWN ARE BOBRICK UNLESS NOTED OTHERWISE

No	Revision / Submissions	Date

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STATE OF COLORADO PAUL BATTISTA B-3015 05/09/2025 LICENSED ARCHITECT

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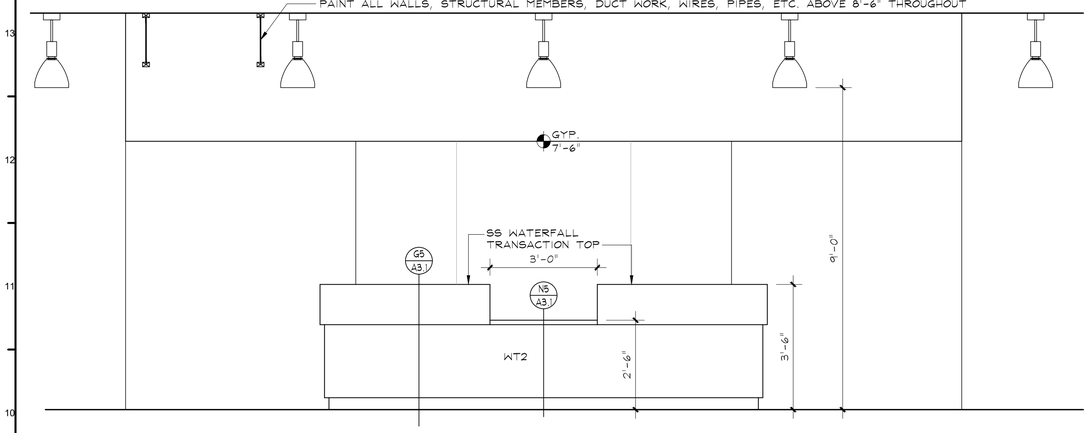
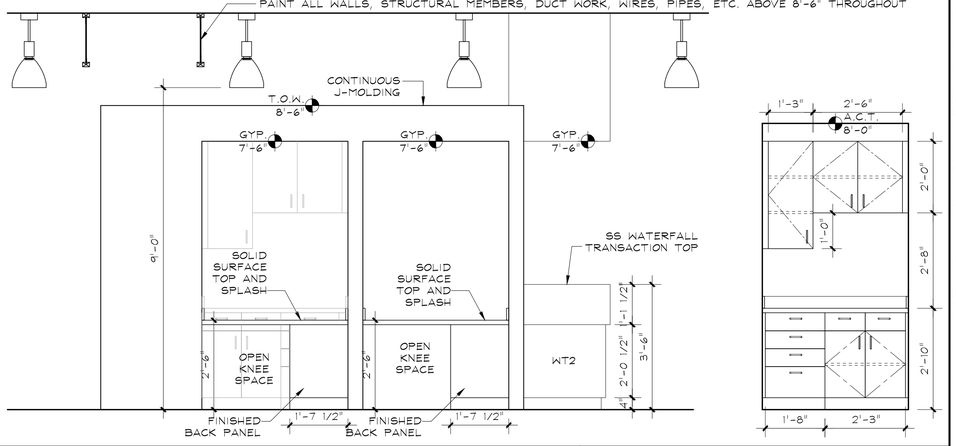


A10	CHECK-IN - 101
1/2"=1'-0"	RE: NORTH



K10	CHECK-OUT - 138
1/2"=1'-0"	RE: EAST

Q10	RECEPTION - 102 EAST
1/2"=1'-0"	RECEPTION - 102 WEST OPPOSITE

GENERAL MILLWORK NOTES:

1. ALL CABINETRY TO BE CUSTOM GRADE, SUBMIT SHOP DRAWINGS & SAMPLES FOR REVIEW, FIELD VERIFY MEASUREMENTS PRIOR TO FABRICATION.

2. SEE SHEET A1.4 FOR ACCESSORY EQUIPMENT TAGS AND SCHEDULE.

3. ALL INTERIOR CABINET SURFACES TO BE WHITE MELAMINE.

4. ALL NEW BASE CABINETS TO BE FURNISHED WITH 1 EA. FULL DEPTH & WIDTH ADJUSTABLE WHITE MELAMINE SHELF INSIDE THE CABINET COMPARTMENT. ALL NEW WALL CABINETS TO BE FURNISHED WITH 2 EA. FULL DEPTH & WIDTH ADJUSTABLE WHITE MELAMINE SHELVES INSIDE THE CABINET COMPARTMENT, UNLESS SHOWN OTHERWISE, SEE ELEVATIONS

5. CABINET DOORS: PROVIDE HEAVY DUTY, SOFT CLOSING, CONCEALED HINGES FOR FLUSH MOUNT DOORS.

6. CABINET DRAWERS: PROVIDE HEAVY DUTY, SOFT CLOSING, FULL EXTENSION DRAWER GLIDES.

7. DOOR AND DRAWER PULLS TO MATCH PULLS IN STERILIZATION

8. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR SPECIFIC DENTAL EQUIPMENT REQUIREMENTS AS IT PERTAINS TO MILLWORK.

9. COORDINATE SINK SIZES AND TYPES WITH PLUMBING DRAWINGS OR WITH OWNER FOR EXISTING SINKS TO BE RE-USED, NOTIFY ARCHITECT OF ANY DISCREPANCIES

10. NEW UPPER CABINETS TO RECEIVE UNDER-CABINET LIGHTS SHALL HAVE FLUSH BOTTOMS & LIGHT VALENCE, SEE ELECTRICAL DRAWINGS

11. COORDINATE WITH OWNER ON PLACEMENT OF CPU'S IN CABINETS, PROVIDE 2 EACH (HIGH/LOW) MOCKETT MESH/2 4x8 MATTE BLACK VENTS, TYPICAL AT ALL CPU CABINETS

12. COORDINATE W/ OWNER ON GROMMET PLACEMENT, V.I.F.

13. ALL COMPUTER RELATED EQUIPMENT I.E. CABLING, KEYBOARD TRAYS, ETC. TO BE BY OWNERS COMPUTER CONSULTANT

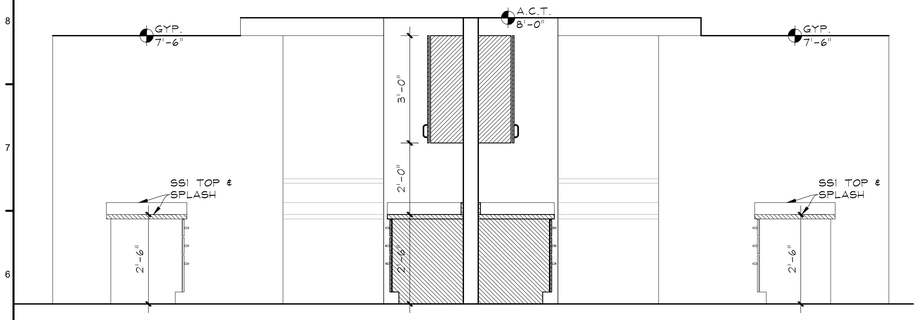
14. ALL EXPOSED CABINET SURFACES TO BE P-LAM, CONCEALED SURFACES MAY BE MELAMINE. INTERIOR SURFACES OF CABINETS WITH GLASS DOORS TO BE P-LAM

15. EXPOSED CABINET BASES AND TOE KICKS TO BE WRAPPED WITH WALL BASE, SEE SHEET A0.1

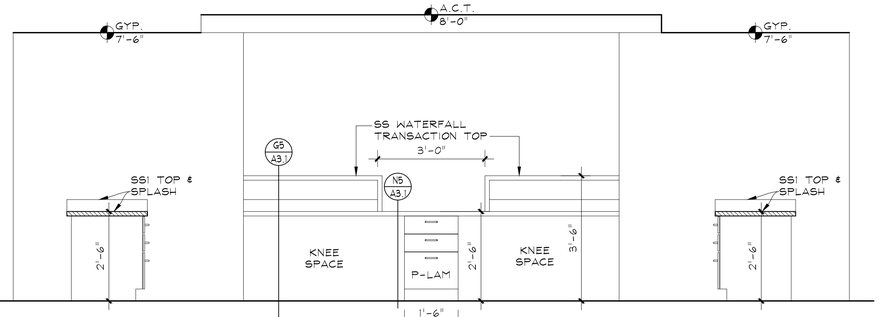
16. PROVIDE P-LAM BACK AND SIDE SPLASHES WHERE COUNTERS MEET WALLS, TYPICAL

17 SEE SHEET A3.1 FOR TYPICAL CABINET DETAILS

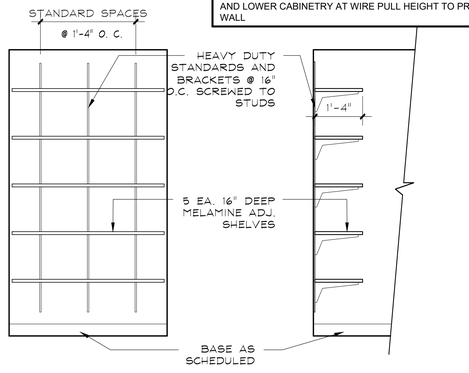
18. PROVIDE CLEAR RUBBER BUMPERS ON WALLS ADJACENT TO UPPER AND LOWER CABINETRY AT WIRE PULL HEIGHT TO PREVENT DAMAGE TO WALL



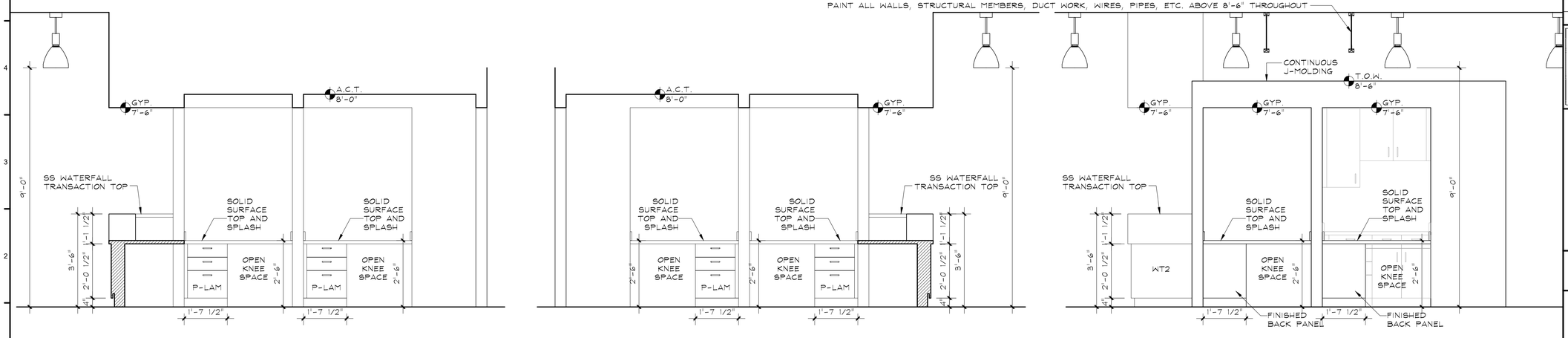
A5	RECEPTION - 102
1/2" = 1'-0"	RE: SOUTH



J5	RECEPTION - 102
1/2" = 1'-0"	RE: SOUTH



Q5	CLOSETS SOUTH
1/2" = 1'-0"	CLO. 132, I.T. 135 & CLO. 137



A1	RECEPTION - 102
1/2" = 1'-0"	RE: WEST

F1	RECEPTION - 102
1/2" = 1'-0"	RE: EAST

M1	CHECK-OUT - 103
1/2" = 1'-0"	RE: WEST

No	Revision / Submissions	Date

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net

BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

INTERIOR ELEVATIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/09/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A2.1
Reviewed: PJB	
Date: May 2025	of

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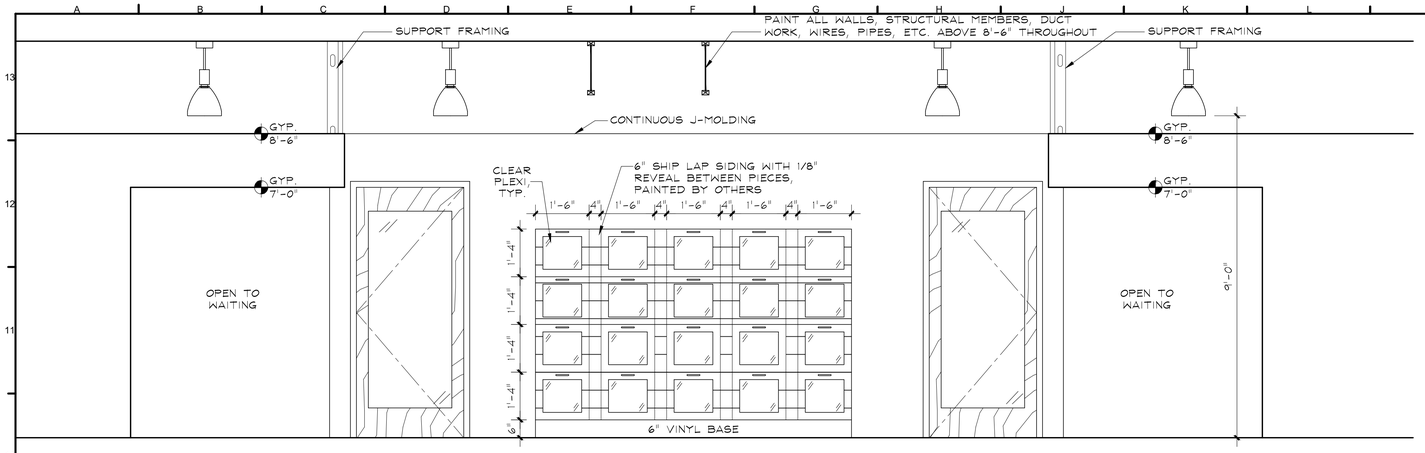
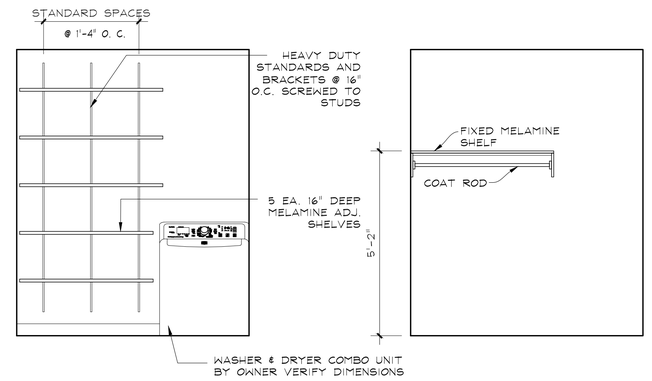


A10	CHECK-IN - 101
1/2"=1'-0"	RE: SOUTH



N10	LAUNDRY - 130
1/2"=1'-0"	RE: EAST

Q10	LAUNDRY - 130
1/2"=1'-0"	RE: WEST

GENERAL MILLWORK NOTES:

1. ALL CABINETRY TO BE CUSTOM GRADE, SUBMIT SHOP DRAWINGS & SAMPLES FOR REVIEW, FIELD VERIFY MEASUREMENTS PRIOR TO FABRICATION.

2. SEE SHEET A1.4 FOR ACCESSORY EQUIPMENT TAGS AND SCHEDULE.

3. ALL INTERIOR CABINET SURFACES TO BE WHITE MELAMINE.

4. ALL NEW BASE CABINETS TO BE FURNISHED WITH 1 EA. FULL DEPTH & WIDTH ADJUSTABLE WHITE MELAMINE SHELF INSIDE THE CABINET COMPARTMENT. ALL NEW WALL CABINETS TO BE FURNISHED WITH 2 EA. FULL DEPTH & WIDTH ADJUSTABLE WHITE MELAMINE SHELVES INSIDE THE CABINET COMPARTMENT, UNLESS SHOWN OTHERWISE, SEE ELEVATIONS

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6. CABINET DRAWERS: PROVIDE HEAVY DUTY, SOFT CLOSING, FULL EXTENSION DRAWER GLIDES.

7. DOOR AND DRAWER PULLS TO MATCH PULLS IN STERILIZATION

8. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR SPECIFIC DENTAL EQUIPMENT REQUIREMENTS AS IT PERTAINS TO MILLWORK.

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11. COORDINATE WITH OWNER ON PLACEMENT OF CPU'S IN CABINETS, PROVIDE 2 EACH (HIGH/LOW) MOCKETT MESH/2 4x8 MATTE BLACK VENTS, TYPICAL AT ALL CPU CABINETS

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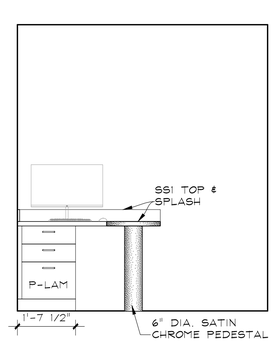
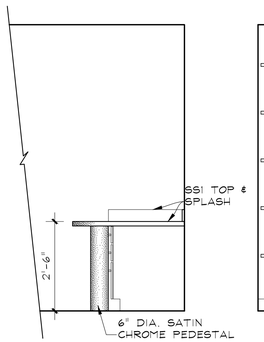
15. EXPOSED CABINET BASES AND TOE KICKS TO BE WRAPPED WITH WALL BASE, SEE SHEET A0.1

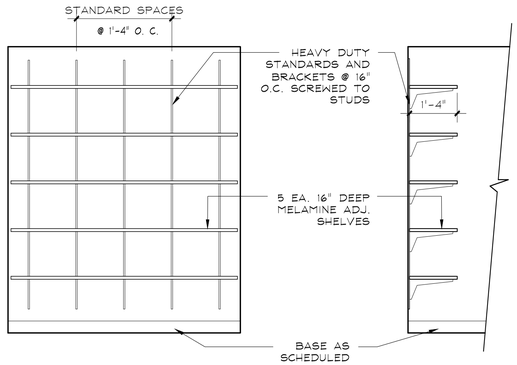
16. PROVIDE P-LAM BACK AND SIDE SPLASHES WHERE COUNTERS MEET WALLS, TYPICAL

17 SEE SHEET A3.1 FOR TYPICAL CABINET DETAILS

18. PROVIDE CLEAR RUBBER BUMPERS ON WALLS ADJACENT TO UPPER AND LOWER CABINETRY AT WIRE PULL HEIGHT TO PREVENT DAMAGE TO WALL

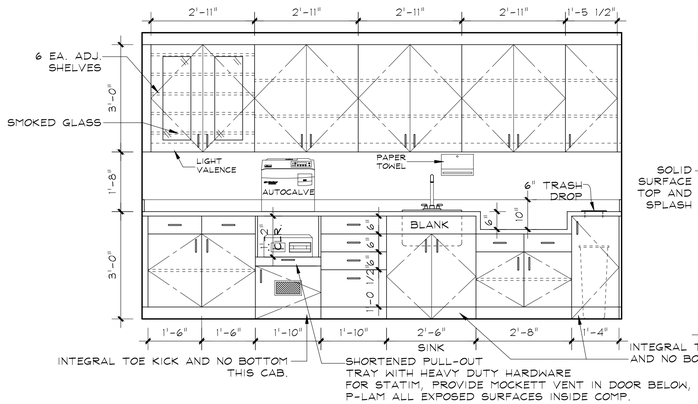


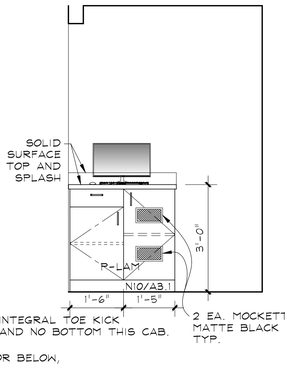




A5	TC ROOM - 107
1/2" = 1'-0"	RE: EAST

C5	TC ROOM - 107
1/2" = 1'-0"	RE: NORTH

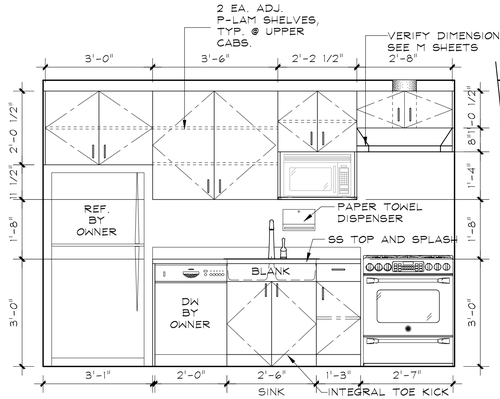


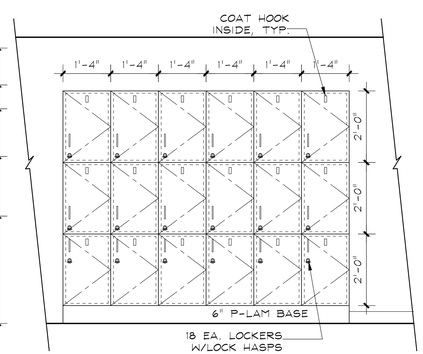


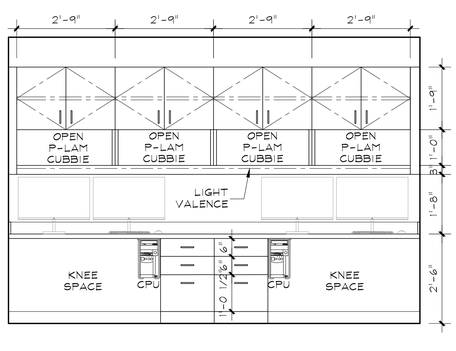
F5	CLOSET - 134 & CLOSET - 126
1/2" = 1'-0"	RE: WEST

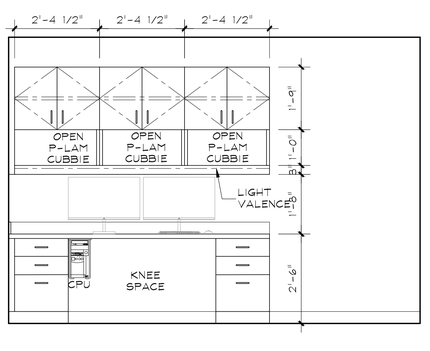
K5	STERILIZATION - 111
1/2" = 1'-0"	RE: WEST

Q5	ACQUISITION CABINETRY
1/2" = 1'-0"	4EA. LOCATIONS









A1	BREAK - 131
1/2" = 1'-0"	RE: WEST

F1	BREAK - 131
1/2" = 1'-0"	RE: SOUTH

J1	OFFICE - 133
1/2" = 1'-0"	RE: EAST

N1	OFFICE - 136
1/2" = 1'-0"	RE: EAST

No	Revision / Submissions	Date

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STATE OF COLORADO
PAUL J. BATTISTA
B-30115
05/09/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
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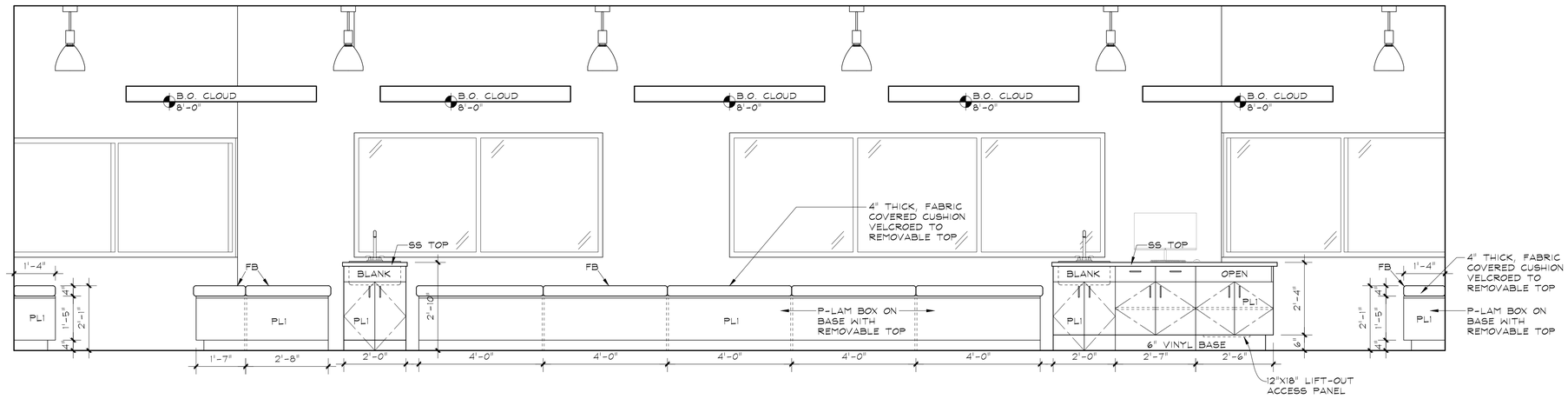
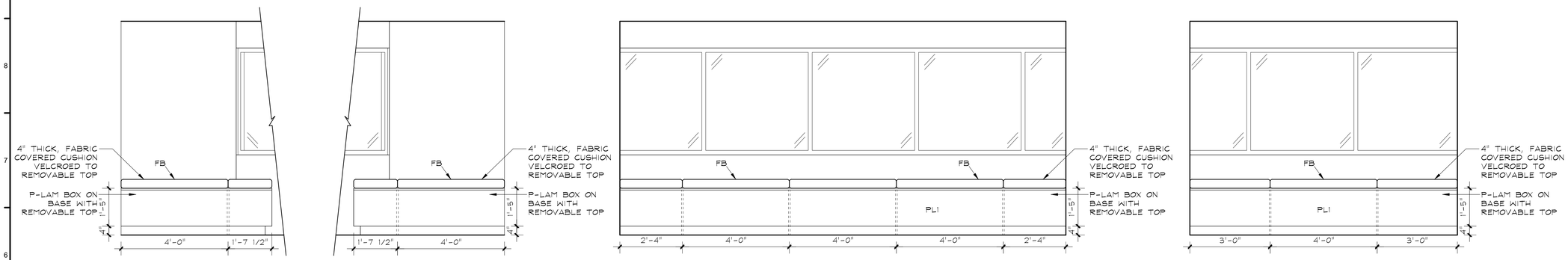


A10 — HYGIENE - 4 - 114 THROUGH HYGIENE 8 - 121

1/2"=1'-0" — RE: EAST



A5 — HYGIENE 8 - 121

1/2" = 1'-0" — RE: NORTH

D5 — HYGIENE 4 - 114

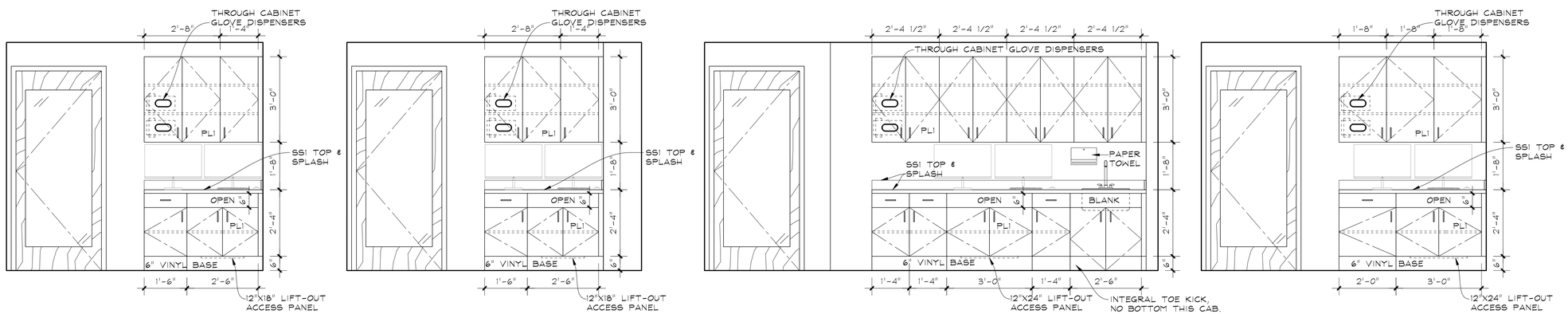
1/2" = 1'-0" — RE: SOUTH

G5 — HYGIENE 3 - 113

1/2" = 1'-0" — RE: SOUTH

N5 — HYGIENE 1 - 109

1/2" = 1'-0" — RE: SOUTH



A1 — TREATMENT 1 - 140

1/2" = 1'-0" — RE: SOUTH

E1 — TREATMENT 2 - 143

1/2" = 1'-0" — RE: SOUTH

J1 — TREATMENT 3 - 144

1/2" = 1'-0" — RE: SOUTH

P1 — TREATMENT 4 - 145

1/2" = 1'-0" — RE: EAST

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STATE OF COLORADO — PAUL J. BATTISTA B-3015 — 05/09/2025 — LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A2.3
Reviewed: PJB	
Date: May 2025	of

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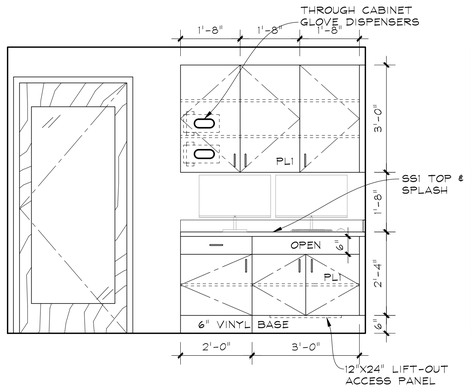
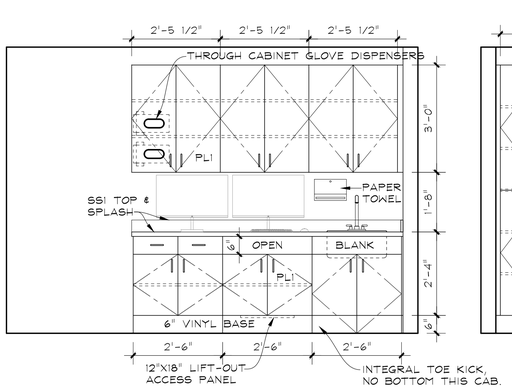
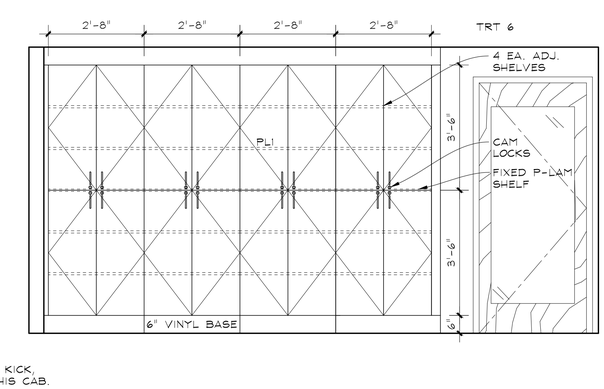


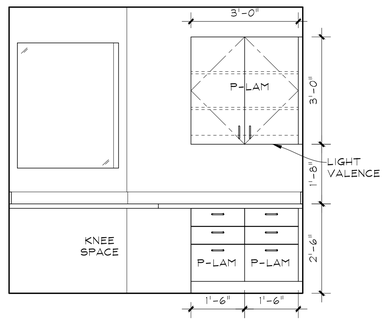
A10	TREATMENT 5 - 148
1/2"=1'-0"	RE: EAST



E10	TREATMENT 6 - 150
1/2"=1'-0"	RE: EAST



J10	TREATMENT6 - 150
1/2"=1'-0"	RE: NORTH



P10	OFFICE - 122
1/2"=1'-0"	RE: SOUTH

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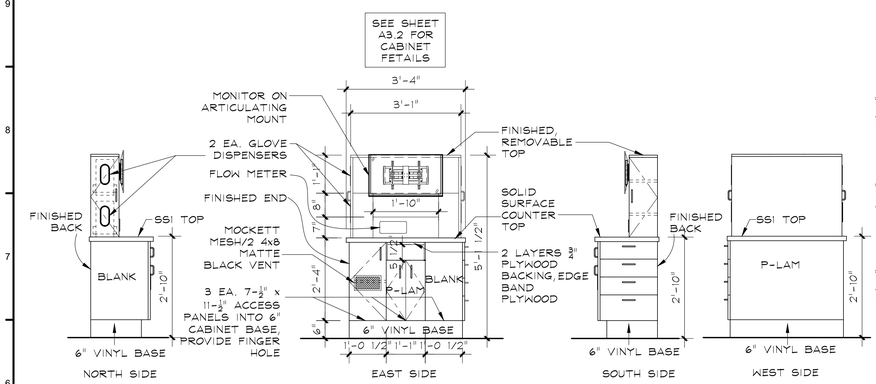
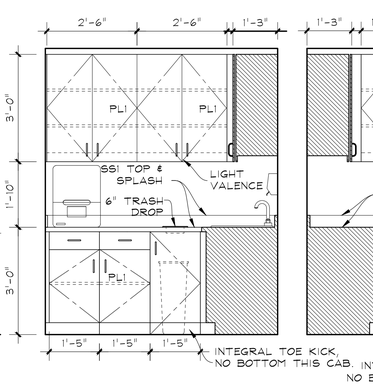
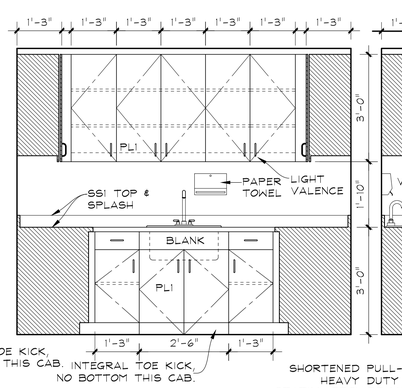


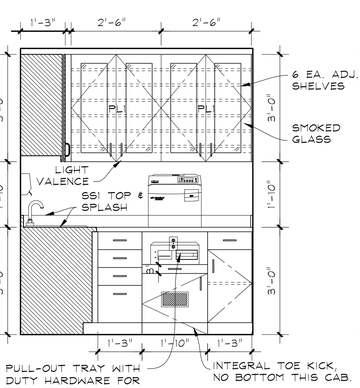
A5	HYGIENE 12 O'CLOCK CABINET'S
1/2" = 1'-0"	4 EACH



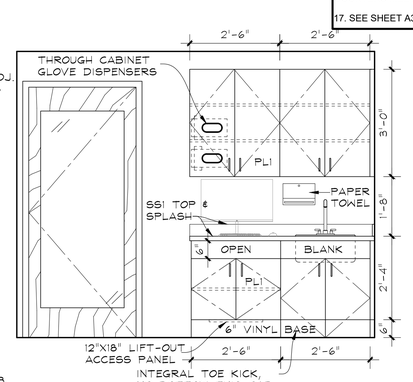
H5	LAB. - 142
1/2" = 1'-0"	RE: EAST



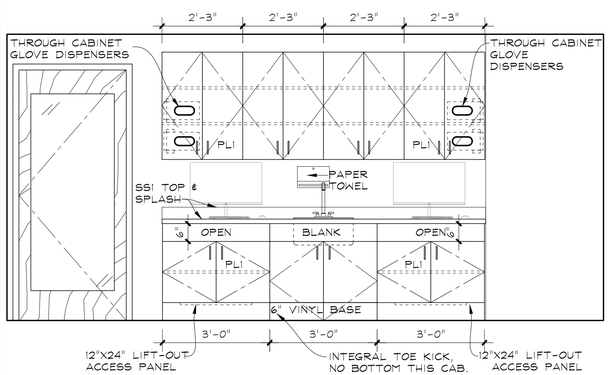
K5	LAB. - 142
1/2" = 1'-0"	RE: SOUTH



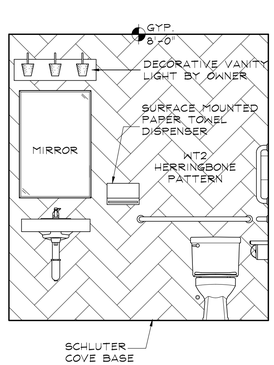
N5	LAB. - 142
1/2" = 1'-0"	RE: WEST



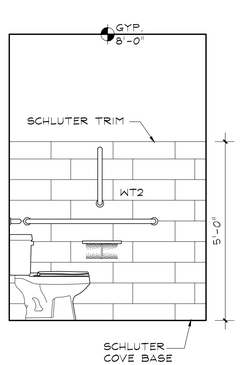
R5	HYGIENE 1 - 109
1/2" = 1'-0"	RE: NORTH



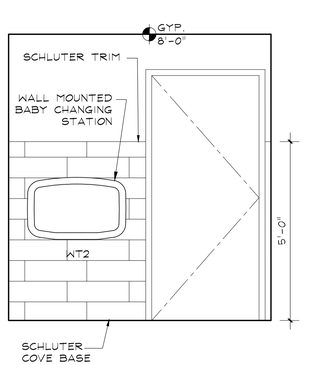
A1	HYGIENE 2 - 110 & HYGIENE 3 - 113
1/2" = 1'-0"	RE: NORTH



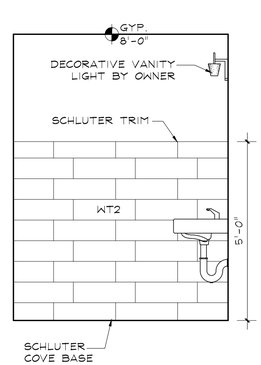
F1	UNISEX - 106
1/2" = 1'-0"	RE: NORTH



J1	UNISEX - 106
1/2" = 1'-0"	RE: EAST



M1	UNISEX - 106
1/2" = 1'-0"	RE: SOUTH



Q1	UNISEX - 106
1/2" = 1'-0"	RE: WEST

No	Revision / Submissions	Date

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4995
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

INTERIOR ELEVATIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-30115
05/09/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A2.4
Reviewed: PJB	
Date: May 2025	of

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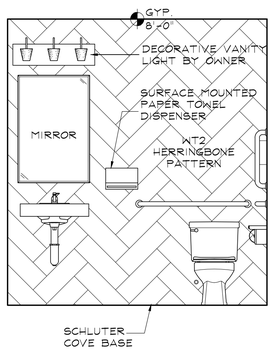
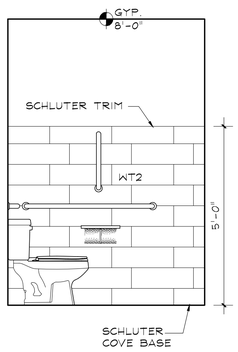
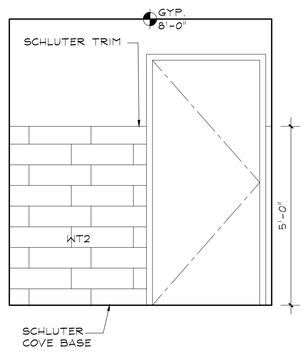


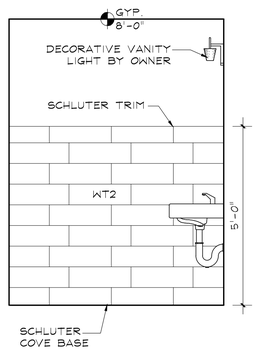
A10	UNISEX - 129
1/2" = 1'-0"	RE: SOUTH



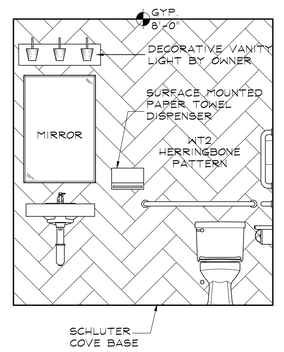
D10	UNISEX - 129
1/2" = 1'-0"	RE: WEST



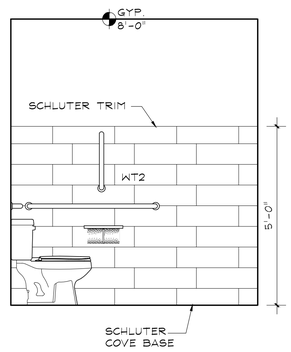
G10	UNISEX - 129
1/2" = 1'-0"	RE: NORTH



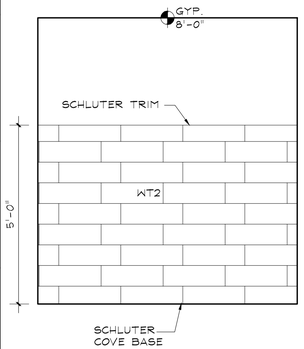
K10	UNISEX - 129
1/2" = 1'-0"	RE: EAST



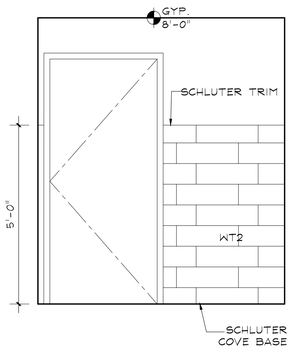
N10	PVT. RSTRM. - 124
1/2" = 1'-0"	RE: SOUTH



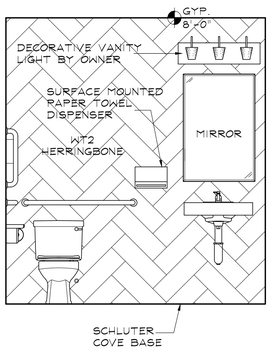
R10	PVT. RSTRM. - 124
1/2" = 1'-0"	RE: WEST



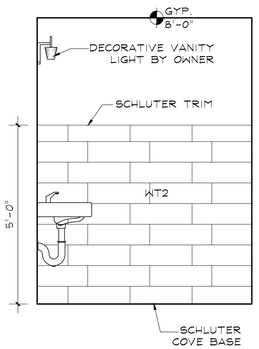
A5	PVT. RSTRM. - 124
1/2" = 1'-0"	RE: NORTH



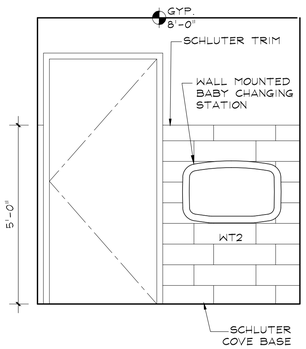
D5	PVT. RSTRM. - 124
1/2" = 1'-0"	RE: EAST



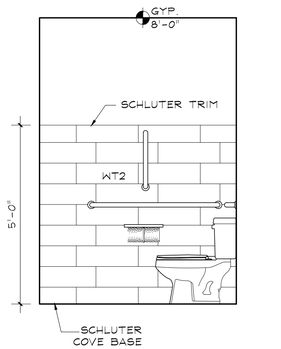
G5	UNISEX - 153
1/2" = 1'-0"	RE: NORTH



K5	UNISEX - 153
1/2" = 1'-0"	RE: EAST



N5	UNISEX - 153
1/2" = 1'-0"	RE: SOUTH



R5	UNISEX - 153
1/2" = 1'-0"	RE: WEST

GENERAL MILLWORK NOTES:

1. ALL CABINETRY TO BE CUSTOM GRADE, SUBMIT SHOP DRAWINGS & SAMPLES FOR REVIEW, FIELD VERIFY MEASUREMENTS PRIOR TO FABRICATION.

2. SEE SHEET A1.4 FOR ACCESSORY EQUIPMENT TAGS AND SCHEDULE.

3. ALL INTERIOR CABINET SURFACES TO BE WHITE MELAMINE.

4. ALL NEW BASE CABINETS TO BE FURNISHED WITH 1 EA. FULL DEPTH & WIDTH ADJUSTABLE WHITE MELAMINE SHELF INSIDE THE CABINET COMPARTMENT. ALL NEW WALL CABINETS TO BE FURNISHED WITH 2 EA. FULL DEPTH & WIDTH ADJUSTABLE WHITE MELAMINE SHELVES INSIDE THE CABINET COMPARTMENT, UNLESS SHOWN OTHERWISE, SEE ELEVATIONS

5. CABINET DOORS: PROVIDE HEAVY DUTY, SOFT CLOSING, CONCEALED HINGES FOR FLUSH MOUNT DOORS.

6. CABINET DRAWERS: PROVIDE HEAVY DUTY, SOFT CLOSING, FULL EXTENSION DRAWER GLIDES.

7. DOOR AND DRAWER PULLS TO MATCH PULLS IN STERILIZATION

8. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR SPECIFIC DENTAL EQUIPMENT REQUIREMENTS AS IT PERTAINS TO MILLWORK.

9. COORDINATE SINK SIZES AND TYPES WITH PLUMBING DRAWINGS OR WITH OWNER FOR EXISTING SINKS TO BE RE-USED, NOTIFY ARCHITECT OF ANY DISCREPANCIES

10. NEW UPPER CABINETS TO RECEIVE UNDER-CABINET LIGHTS SHALL HAVE FLUSH BOTTOMS & LIGHT VALENCE, SEE ELECTRICAL DRAWINGS

11. COORDINATE WITH OWNER ON PLACEMENT OF CPU'S IN CABINETS, PROVIDE 2 EACH (HIGH/LOW) MOCKETT MESH/2 4x8 MATTE BLACK VENTS, TYPICAL AT ALL CPU CABINETS

12. COORDINATE W/ OWNER ON GROMMET PLACEMENT, V.I.F.

13. ALL COMPUTER RELATED EQUIPMENT I.E. CABLING, KEYBOARD TRAYS, ETC. TO BE BY OWNERS COMPUTER CONSULTANT

14. ALL EXPOSED CABINET SURFACES TO BE P-LAM, CONCEALED SURFACES MAY BE MELAMINE. INTERIOR SURFACES OF CABINETS WITH GLASS DOORS TO BE P-LAM

15. EXPOSED CABINET BASES AND TOE KICKS TO BE WRAPPED WITH WALL BASE, SEE SHEET A0.1

16. PROVIDE P-LAM BACK AND SIDE SPLASHES WHERE COUNTERS MEET WALLS, TYPICAL

17 SEE SHEET A3.1 FOR TYPICAL CABINET DETAILS

18. PROVIDE CLEAR RUBBER BUMPERS ON WALLS ADJACENT TO UPPER AND LOWER CABINETRY AT WIRE PULL HEIGHT TO PREVENT DAMAGE TO WALL

No	Revision / Submissions	Date

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3650 Wadsworth Boulevard
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INTERIOR ELEVATIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/09/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
Checked: IJF	Drawing Number: A2.5
Reviewed: PJB	
Date: May 2025	of

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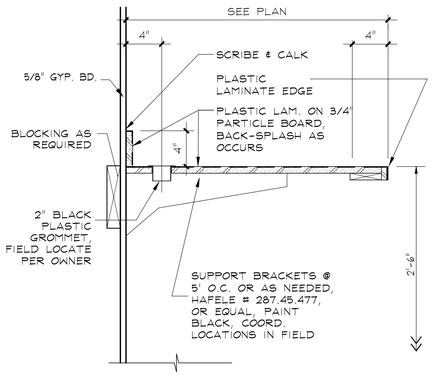
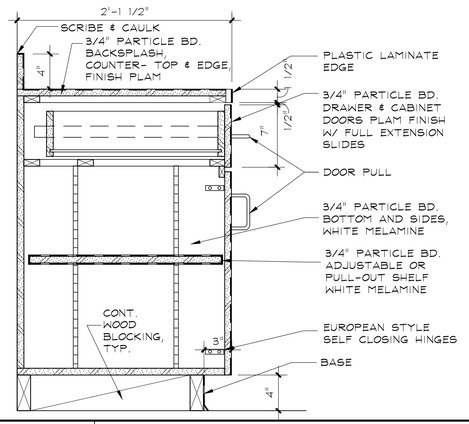
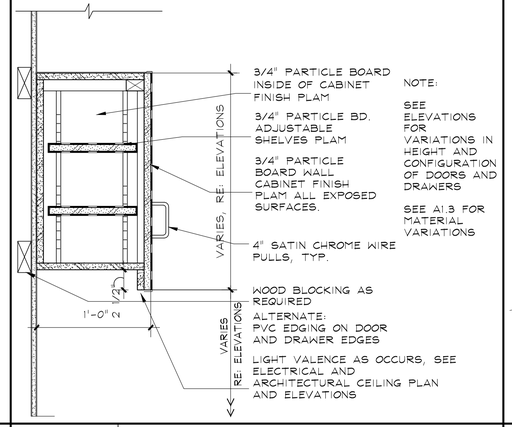


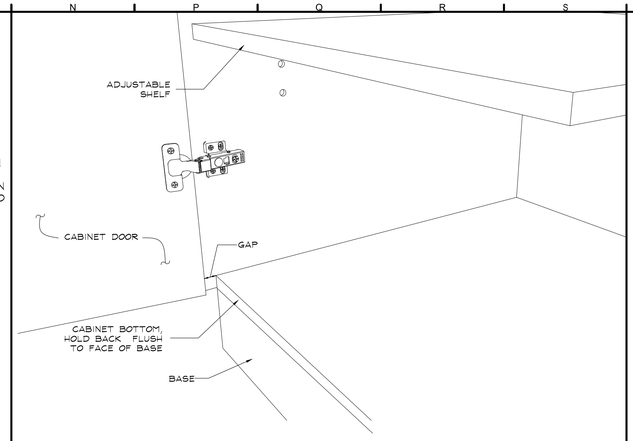
A10	P-LAM COUNTER AT WALL
1-1/2"=1'-0"	RE: AS OCCURS, SEE PLAN AND ELEVATIONS



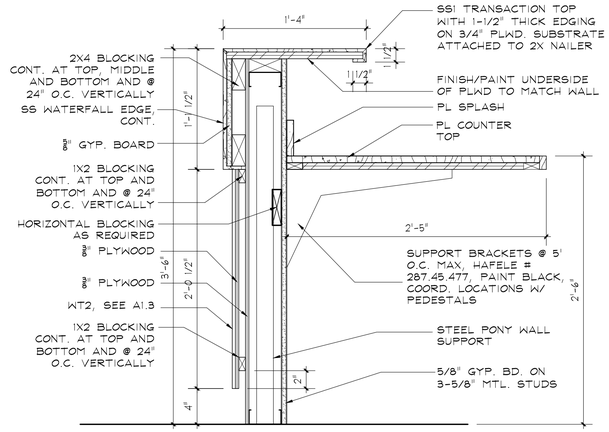
E10	BASE CABINET
1 1/2"=1'-0"	RE: TYPICAL



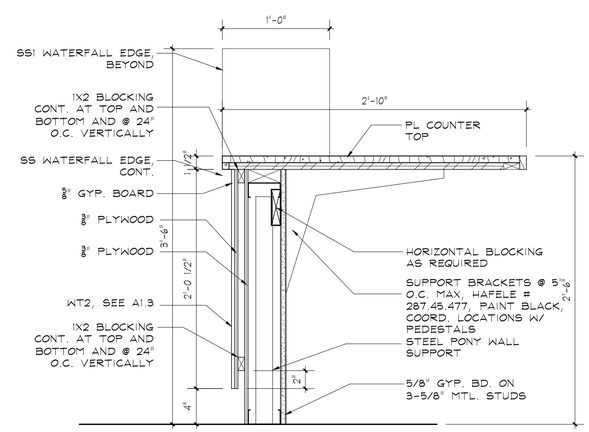
J10	UPPER CABINET
1 1/2"=1'-0"	RE: TYPICAL



N10	COMPUTER CABINET BASE
N.T.S.	RE: AS OCCURS, SEE ELEVATIONS



G5	RECEPTION DESK
1 1/2"=1'-0"	RE: TRANSACTION COUNTER



N5	RECEPTION DESK
1 1/2"=1'-0"	RE: ADA COUNTER

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3850 Wadsworth Boulevard
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DETAILS

STATE OF COLORADO
PAUL J. BATTISTA
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LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
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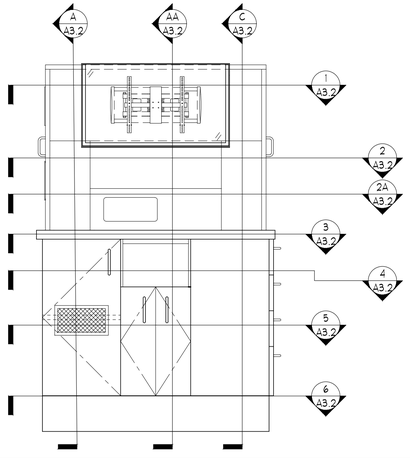
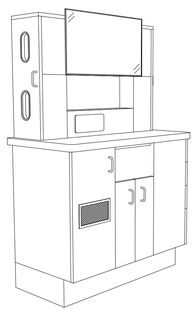
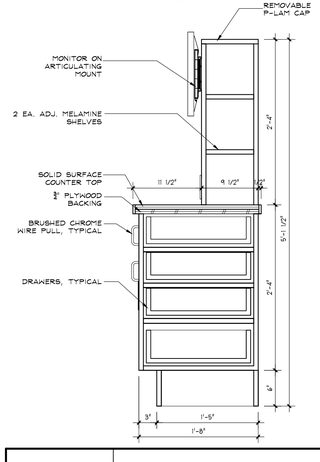


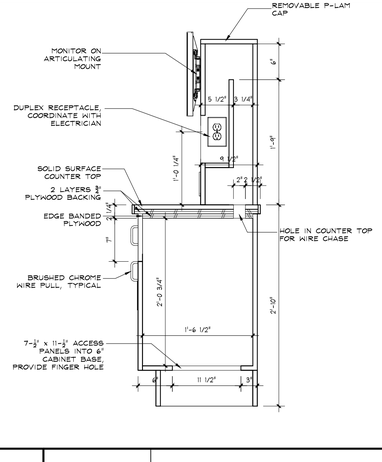
A5	12 O'CLOCK CABINET
1"=1'-0"	RE: TYPICAL



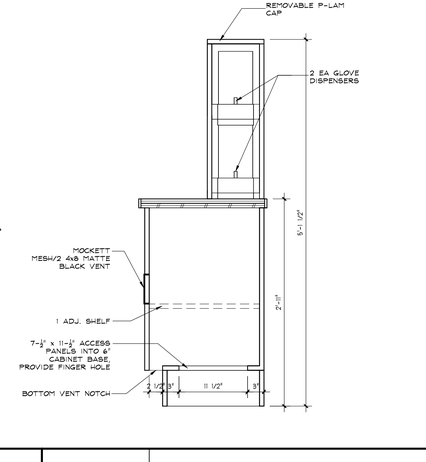
E5	12 O'CLOCK CABINET PERSPECTIVE
N.T.S.	RE: TYPICAL



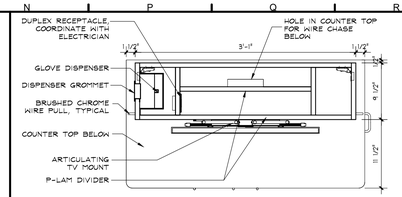
C	VERTICAL SECTION
1"=1'-0"	RE: TYPICAL



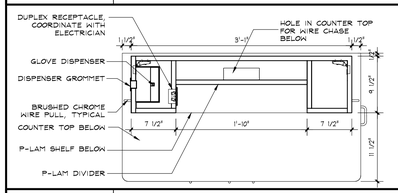
B	VERTICAL SECTION
1"=1'-0"	RE: TYPICAL



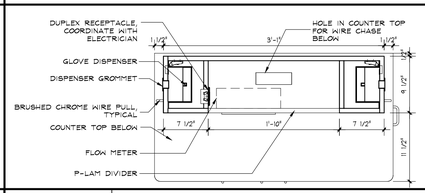
A	VERTICAL SECTION
1"=1'-0"	RE: TYPICAL



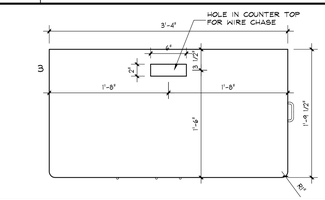
1	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL



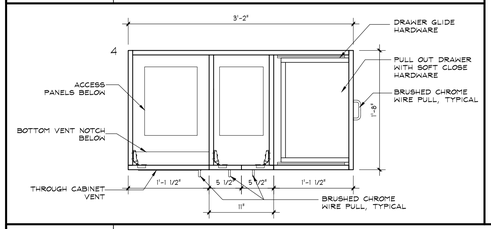
2	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL



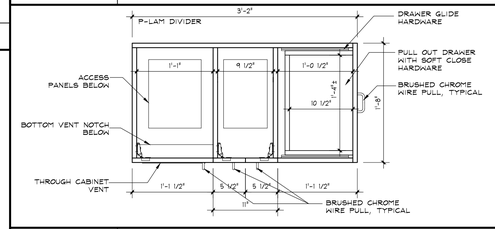
2A	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL



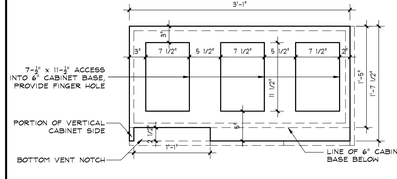
3	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL



4	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL



5	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL



6	HORIZONTAL SECTION
1"=1'-0"	RE: TYPICAL

No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
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DETAILS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
05/09/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SMITHWICK2025
Drawn: IJF	Scale: As Shown
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Date: May 2025	of

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GENERAL NOTES

1. All work shall be installed in accordance with the base building specifications and standards, or the existing building standards as evidenced in the building construction, and all applicable codes.
2. All work shall be in accordance with local codes. These codes shall be followed as a minimum, providing higher grades of materials and workmanship where required. All work shall conform to the requirements of authorities having jurisdiction, and local regulatory agencies.
3. This Contractor is responsible for all aspects of job-site safety. The Engineer is not responsible for means, methods and safety measures employed by the Contractor in the installation of the work depicted on these drawings.
4. Contractor shall become familiar with the structure, and verify that there is adequate clearance for the proposed mechanical installation. In the event the Contractor has observed a discrepancy, or foresees a problem, he must notify the Engineer immediately when such conditions are observed.
5. Contractor shall verify existing conditions prior to the fabrication of ductwork and piping components. Carefully coordinate location of equipment and ductwork with ceiling, light fixtures, structural elements, pipes, conduits, and the work of other trades.
6. The mechanical drawings indicate general design and arrangement of pipes, ductwork, equipment, and systems. Drawings are diagrammatic in nature, and do not indicate every required offsets, fittings, etc. Follow drawings as close as actual construction and the work of other trades permits.
7. Refer to the Architectural drawings and existing conditions at the site for exact location of partitions, walls, plumbing fixtures and general construction. Coordinate all grilles, registers, and diffuser locations with the Architectural drawings.

HVAC GENERAL NOTES

1. Contractor shall place filters on the return air openings to the return air duct of the existing packaged rooftop HVAC unit prior to commencement of construction. Filters shall be removed at completion of the construction phase.
2. Existing HVAC equipment and ductwork are shown in dashed lines. Existing sizes and locations shown are not precise, and may be slightly different than actual conditions; Contractor must verify exact location and size of ducts at the site as necessary.
3. The work included under these construction documents consists of providing all equipment, labor, supervision, and construction procedures necessary for the installation of complete mechanical system(s) required by, or shown on these drawings. Contractor shall pay for all permits and/or fees required for the work.
4. All work shall be installed in accordance with local codes. All work shall conform to the requirements of authorities having jurisdiction, and local regulatory agencies.
5. This Contractor is responsible for all aspects of job-site safety. The Engineer is not responsible for means, methods and safety measures employed by the Contractor in the installation of the work depicted on these drawings.
6. The mechanical drawings indicate general design and arrangement of pipes, ductwork, equipment, and systems. Drawings are diagrammatic in nature, and do not indicate every required offsets, fittings, etc. Follow drawings as close as actual construction and the work of other trades permits.
7. All work shall be installed from field dimensions to assure that it can be installed as shown. Any conflicts shall be brought to the attention of the Architect and the Engineer immediately for resolution prior to fabrication of components, or installation of equipment. Carefully coordinate location of equipment and ductwork with ceiling, light fixtures, existing systems, structural elements, and the work of other trades.
8. Contractor shall verify the proper operation of the existing packaged rooftop HVAC units and thermostats serving this tenant space. Existing packaged rooftop HVAC units are assumed to be in good operating condition for bid purposes. The Contractor shall bring to the attention of the Building Owner/Building Manager all observed needs for repair or replacement of existing HVAC equipment, components and systems. Repair or replacement of existing HVAC equipment shall be done at the discretion of the building management as a separate portion of the work, based on the Building Owner/Building Management's prior approval. Notify the Building Owner/Building Management, and obtain approval prior to commencement of work. Replace the HVAC units' filters.
9. Provide and connect all appliances, equipment, ductwork, piping, and accessories as specified and indicated for this project, in accordance with all applicable codes, manufacturer's published installation instructions, and as specified. Provide complete mechanical connections and terminations as indicated, and as required for complete and functional system(s). Coordinate with other trades, the Architect and conditions at the site to establish the actual location of each system.
10. The Contractor is responsible to coordinate all work under his contract, with the work of all other trades.
11. The equipment specified on these drawings has been selected as the basis for the design. The use of specified, or approved equals shall be coordinated by the Contractor as to space, configuration, and performance. Materials, equipment, and installation shall be guaranteed for a period of one (1) year after Building Owner acceptance.
12. All equipment shall be installed in accordance with the manufacturer's recommendations and published installation instructions, maintaining all necessary clearances for service and repair.
13. Installation of equipment on the roof, and all roof penetrations shall be coordinated with the structure, and with the Roofing Contractor. Access to the unit shall meet the requirements of current codes as adopted by the local authority having jurisdiction for roof access.
14. Contractor shall verify existing conditions at the site prior to the purchase or fabrication of materials, components, equipment, and the commencement of work. The bid shall serve as evidence of the Contractor's knowledge of the existing conditions. Notify Architect and Engineer of any conflicts requiring resolution as soon as such conflicts become apparent. Carefully coordinate location of equipment and ductwork with ceiling, light fixtures, structural elements, piping, conduits, and the work of other trades.
15. All ductwork shall be sheetmetal, fabricated and installed in accordance with SMACNA Standard for low velocity ducts. Dimensions shown are outside sheetmetal. Provide 1" acoustic duct liner in rectangular ducts. Exhaust ductwork shall not be acoustically lined. Rigid round ducts shall be spiral or Snap-Lock type. Snap-lock type round duct may be used provided it is sealed along entire seam with plenum approved duct sealant. Duct tape is not acceptable as sealant. All ductwork shall be sealed with Rexcel, high velocity duct sealer 644600N/B as made by Rexcel Coatings Corporation of El Paso, Texas, "Iron Grip", "Flexigrip" or equal. Rigid round ductwork shall be externally insulated and wrapped with aluminized outer jacket. Flexible ducts shall be U.L. approved, have 1.5" thick fiberglass insulation with aluminized mylar inner and outer jacket, or aluminized mylar outer and polyester inner jacket, and comply with the requirements of U.L. 181 and current codes as adopted by the local authority having jurisdiction. Splicing of flexible ducts is not permitted.
16. Contractor shall adjust and balance supply air diffusers, return air grilles, and exhaust and ventilation fans, to the air quantities shown on the plan. Packaged rooftop HVAC units are constant volume devices. Contractor shall balance supply air diffusers and return air grilles proportionally to the air quantities shown on the drawings. Contractor shall notify Engineer immediately, while at the site, if unable to obtain air quantities called for on the drawings. Balancing work shall be performed in accordance with AABC, NEBB or TABB standards, by a Certified Contractor. All balancing work shall be performed prior to tenant occupancy of the space. Submit a Test and Balance Report within 15 days of completion to the following:
    A. One (1) copy to the Building Owner.
    B. One (1) copy to the Architect.
17. All duct and pipe penetrations through walls shall be properly sealed.
18. Use turning vanes in all 90 and 45 degree duct turns in rectangular ducts.
19. Adjust rooftop HVAC unit outside air quantity based on outside air requirements as specified with the unit or shown on the drawings for each system.
20. Provide and install electronic programmable thermostats specified, complete with averaging sensors to control the rooftop HVAC units.
21. Line voltage wiring, and wiring required to be in conduit, by the Electrical Contractor. Low voltage wiring not required to be in conduit, by the Mechanical Contractor.
22. Materials within return air plenums shall be noncombustile or shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with ASTM E 84 or UL 723. [602.2.1 IMC 2018]

GRILLES REGISTERS AND DIFFUSERS

SD-1 Titus architectural four way square plaque supply air diffuser model OMNI, in 24"x 24" module for installation in lay-in ceiling complete with round neck and white factory finish. Neck size and air quantities as shown. Coordinate frame/border and mounting type with the ceiling type.

SD-2 Titus spiral duct supply air diffuser model S-300-FS, double deflection fully adjustable, complete with optional adjustable air scoop where indicated, for direct installation on spiral round duct without the use of transition. Size and air quantities as shown. Factory white finish. Spiral duct diameter as indicated on the plan.

RG-1 Titus model PAR perforated face return air grille for installation in lay-in ceiling, complete with square to round neck adaptor. Size/neck size and air quantities as shown for applicable grille. Factory white finish. Coordinate frame/border and mounting type with the ceiling type.

TG-1 Titus model 23-RL return/exhaust register with 3/4" blade spacing, and 45 degree blade deflection, complete with Titus model AG-35-AA opposed blade volume damper screw adjustable from face of grille. Factory white finish.

HVAC EQUIPMENT

EXHAST FAN (EF-1, 2 and 8)
PennBarry Zephyr series ceiling exhaust fan model Z-8-S. 199 CFM at 0.5" S.P. 1050 RPM, 1.0 Amps at 120-1-60, complete with intake grille, backdraft damper, PennBarry model LT-30 speed control switch, and PennBarry model NCC08 curb mounted roof discharge cap. Fan shall be suspended from structure with vibration isolators. Variable speed switch provided by the Mechanical Contractor, installed and wired by the Electrical Contractor. Approximate dimensions: 24"L x 14"W x 14"H. Approximate operating weight: 30 lbs.

EXHAUST FAN (EF-3 thru 6)
PennBarry Zephyr series ceiling exhaust fan model Z-8-S. 199 CFM at 0.5" S.P. 1050 RPM, 1.0 Amps at 120-1-60, complete with intake grille, backdraft damper, and PennBarry model NCC-08 curb mounted roof discharge cap where the exhaust duct exists through the roof, and PennBarry wall cap model WC-10 when exhaust duct exits through the wall. Fan shall be suspended from structure with vibration isolators. Fan shall be activated by the occupancy sensor controlling the light in the restroom. Approximate dimensions: 24"L x 14"W x 14"H. Approximate operating weight: 25 lbs.

UTILITY EXHAUST FAN (EF-7)
PennBarry Zephyr series ceiling ventilation fan model Z-10-S. 423 CFM at 0.25" S.P. 1050 RPM, 2.5 Amps at 120-1-60, complete with line voltage thermostat, intake grille, backdraft damper, and PennBarry model NCC08 curb mounted roof discharge cap. Fan shall be suspended from structure with vibration isolators, and activated by the reverse acting cooling only line voltage thermostat located where shown. Contractor shall verify that fan is activated when the thermostat set-point is lowered. Line voltage thermostat provided by the Mechanical Contractor, installed and wired by the Electrical Contractor. Approximate dimensions: 24"L x 14"W x 14"H. Approximate operating weight: 25 lbs.

IT ROOM VENTILATION FAN (VF-1)
PennBarry Zephyr series ceiling exhaust fan model Z-8-S. 231 CFM at 0.25" S.P. 1050 RPM, 1.0 Amps at 120-1-60, complete with line voltage thermostat, intake grille, backdraft damper, and PennBarry model NCC08 curb mounted roof discharge cap. Fan shall be suspended from structure with vibration isolators, and activated by the reverse acting cooling only line voltage thermostat located where shown. Contractor shall verify that fan is activated when the thermostat set-point is lowered. Line voltage thermostat provided by the Mechanical Contractor, installed and wired by the Electrical Contractor. Approximate dimensions: 24"L x 14"W x 14"H. Approximate operating weight: 25 lbs.

FAN POWERED BOX (FPB)
NOTE: The contractor shall verify the compatibility of controls, and closely coordinate the purchase of fan powered VAV terminals, VAV terminals, thermostats, and control components with the building operating engineer. Obtain written approval from the building operating engineer prior to placing purchase orders for such equipment.

The equipment specified on these drawings has been selected as the basis for the design. The use of specified, or approved equals shall be coordinated by the contractor as to space, configuration, and performance. Price and Environmental Technologies are approved substitutions. Materials, equipment, and installation shall be guaranteed for a period of one (1) year after Building Owner acceptance.

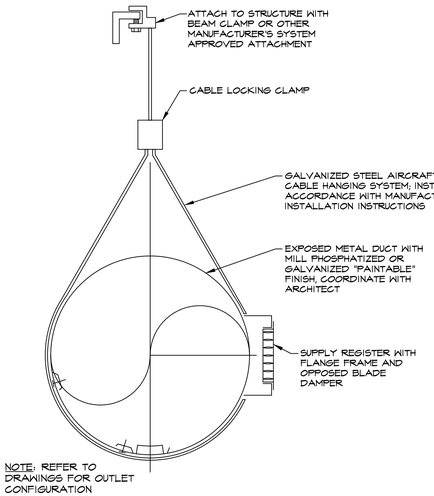
The DDC upgrade shall be as made by Carrier. VAV terminals shall be provided complete, with the velocity controller. The terminals shall be provided ready for the installation of the DDC actuator and all DDC control components by the DDC control system contractor at the site.

FPB-1 thru 8 Titus pressure independent parallel flow fan powered VAV terminal model DTQP, size 3. Maximum primary air capacity: 500 CFM. Fan air capacity: 375 CFM at 0.25" w.g. static pressure. Terminal unit shall be complete with 1/8 HP 120-1-60 fan motor, 5.0 kW 208-3-60 with SCR controlled electric heating coil with DDC controls, positive air flow switch, ECM motor control, all necessary safety devices, and thermostat. Inlet size: 6" round.

FPB-9 thru 11 Titus pressure independent parallelflow fan powered VAV terminal model DTQP, size 4. Maximum primary air capacity: 900 CFM. Fan air capacity: 675 CFM at 0.25" w.g. static pressure. Terminal unit shall be complete with 1/2 HP 120-1-60 fan motor, 6.0 kW 208-3-60 with SCR controlled electric heating coil with DDC controls, positive air flow switch, ECM motor control, all necessary safety devices, and thermostat. Inlet size: 8"round.

FPB-12 and 13 Titus pressure independent parallel flow fan powered VAV terminal model DTQP, size 5. Maximum primary air capacity: 1400 CFM. Fan air capacity: 1050 CFM at 0.25" w.g. static pressure. Terminal unit shall be complete with 1 HP 120-1-60 fan motor, 9.0 kW 208-3-60 with SCR controlled electric heating coil with DDC controls, positive air flow switch, ECM motor control, all necessary safety devices, and thermostat. Inlet size: 10" round.

ELECTRIC CABINET UNIT HEATER (CUH-1&2): Marley Engineered Products Architectural semi-recessed wall mounted heater model AWH-4000 with tamper proof integral thermostat and integral disconnect. Install unit with bottom at 12" AFF. 1.5 kW at 120-1-60.



EXPOSED ROUND DUCT INSTALLATION DETAIL
NOT TO SCALE

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK.

SWANSON-LEVARY ENGINEERING, LLC
10080 EAST 112TH WAY
HENDERSON, CO 80640
303-660-3535
ryan@swansoneng.com

Not all dimensions appearing on this drawing have been verified. If dimensions are to be used for placement of permanent objects, and/or greater precision is needed, they must be verified prior to use.

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No	Revision / Submissions	Date

NORTH

BATTISTA DESIGN GROUP
3950 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-1895
Fax: 303-428-5412
Email: info@battistadesign.net
www.battistadesign.net

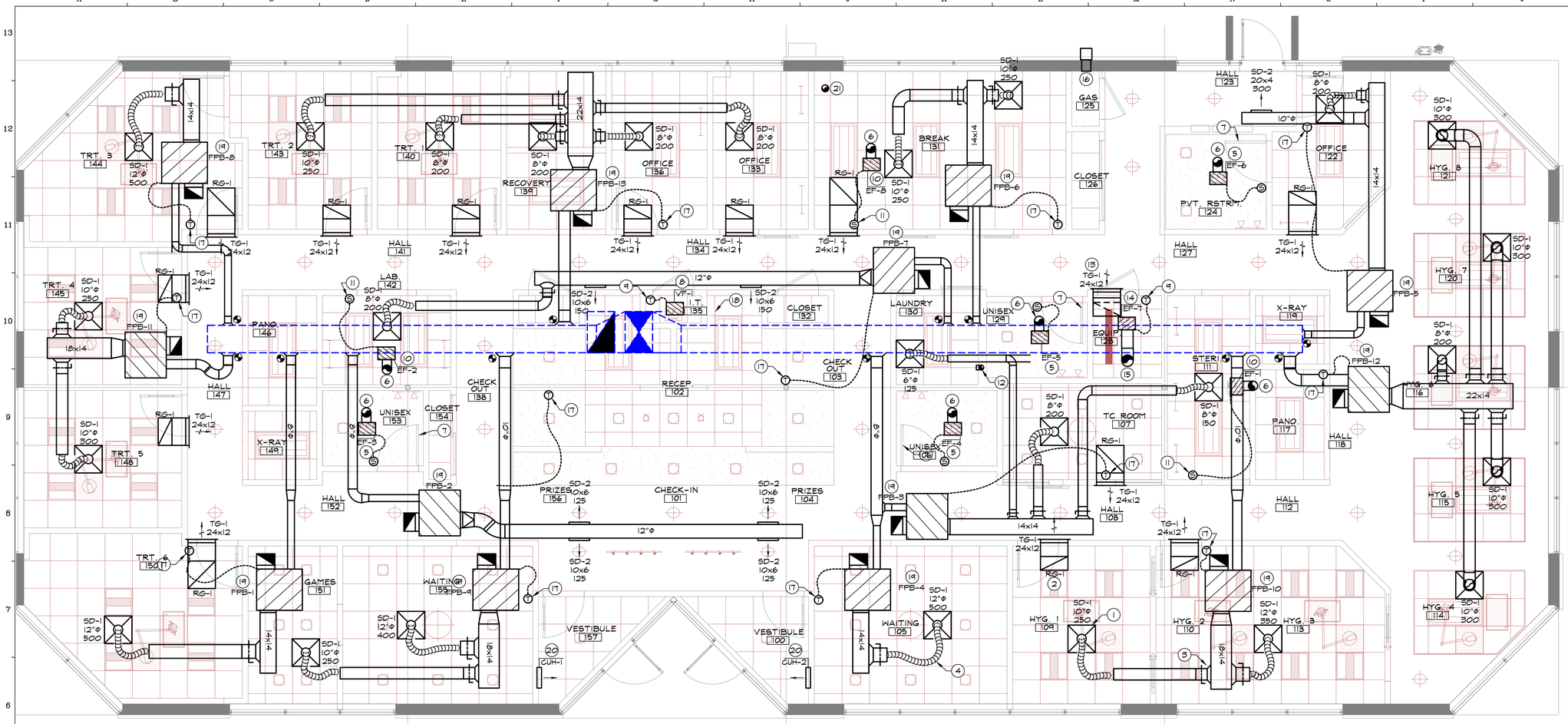
Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

MECHANICAL INFORMATION PLAN

COLORADO LICENSED RYAN MICHAEL SWANSON 42788 5-7-AS PROFESSIONAL ENGINEER

Designed: RMS	Project Number: 45017.0
Drawn: RMS	Scale: 1/4"=1'-0"
Checked: RMS	Drawing Number: M-1
Reviewed: RMS	
Date: APR	



HVAC PLAN KEYED NOTES

1. Provide new supply air diffuser specified as shown. Balance to the air quantity indicated. (Typical)
2. Provide new return air grille specified as shown. (Typical)
3. Provide conical spin-in fitting with manual volume damper as shown. Spin-in fittings shall be installed above the lay-in ceiling area in a manner allowing access to the manual volume damper for adjustment. Young's regulator is an acceptable substitution if manual volume damper can not be placed in accessible location. (Typical)
4. Flexible ducts shall have maximum 8'-0" in unbroken length. Flexible ducts located above GB ceilings or used for return air and/or transfer air, shall be corrugated soft aluminum, U.L. approved, have 1.5" thick fiberglass insulation with aluminized inner and outer jacket, and be 4'- 0" minimum, 8'- 0" maximum in unbroken length. Splicing of flexible ducts is not permitted. (Typical)
5. Provide exhaust fan specified, with built-in backdraft damper. Install fan in ceiling, suspended from structure with vibration isolators. Fan shall be activated by the motion sensor controlling the light in the restroom. Route 8"ø exhaust duct as shown and connect to common exhaust duct as shown.
6. 8" diameter exhaust duct up through the roof. Terminate with curb and roof cap specified with the fan. Properly flash and seal the roof penetration. Fan discharge shall be located no less than 10'-0" away from the rooftop HVAC units outside air intake. Coordinate all roof penetrations with the roofing contractor where applicable.
7. Undercut door 1".
8. Provide new ventilation fan specified as shown. Suspend from structure with vibration isolators. Fan shall be activated by line voltage thermostat. Line voltage thermostat provided by the Mechanical Contractor, installed and wired by the Electrical Contractor.
9. Provide reverse acting line voltage thermostat at 5'-0" AFF as shown. Thermostat shall control the exhaust fan as indicated, and shall have clear plastic tamper proof locking cover. Set thermostat to 78ø° (Adjustable). Contractor shall verify that fan is activated when the thermostat set-point is lowered. Thermostat shall be provided by the Mechanical Contractor, installed and wired by the Electrical Contractor". Coordinate exact location of the thermostat with furniture systems, and equipment where applicable.
10. Provide exhaust fan specified as shown, suspended from structure. Fan shall be activated by variable speed switch. Variable speed switch provided by the Mechanical Contractor, installed and wired by the Electrical Contractor.
11. Provide variable speed switch at 5'-0" AFF as shown. Switch shall control exhaust fan as indicated. Exact location shall be determined and coordinated at the site. Variable speed switch provided by the Mechanical Contractor, installed and wired by the Electrical Contractor.
12. 4" diameter dryer exhaust vent thru roof. The routing of the exhaust duct will have to be determined and coordinated at the site based on field conditions. Duct shall not exceed length permitted by current codes adopted by the local authority having jurisdiction, and the installation shall comply with these codes. Installation of dryer vent shall be made in accordance with the manufacturer's recommendations and published installation instructions. Terminate with factory approved weather cap and backdraft damper per current codes as adopted by the local authority having jurisdiction. Properly seal wall penetration. Do not use birdscreen.
13. Provide transfer air grille and duct assembly as shown. Provide duct down as low as possible to the floor.
14. Provide equipment room exhaust fan specified, with built-in backdraft damper. Install fan in ceiling, suspended from structure with vibration isolators. Fan shall be activated by reverse acting line voltage thermostat. Line voltage thermostat provided by the Mechanical Contractor, installed and wired by the Electrical Contractor.
15. 10" diameter exhaust duct up through the roof. Terminate with curb and roof cap specified with the fan. Properly flash and seal the roof penetration. Fan discharge shall be located no less than 10'-0" away from the rooftop HVAC units outside air intake. Coordinate all roof penetrations with the roofing contractor where
16. Provide two 10" diameter medical gas closet ventilation ducts through exterior wall. Terminate with cap and birdscreen. Provide cap with a minimum of 74 sq inches of free area (each). Properly seal penetration. One duct shall be installed within 6" of the ceiling. The second duct shall be installed within 6" of the floor.
17. Provide new thermostat as part of the DDC upgrade at 5'-0" AFF as shown. Thermostat shall control fan powered VAV terminal or VAV terminal as indicated on the drawing. Coordinate exact location, and height above the finished floor with the furniture systems where applicable. The contractor shall verify the compatibility of controls, and closely coordinate the purchase of thermostats, and control components with the building maintenance engineer. Obtain written approval from the building maintenance engineer prior to placing purchase orders for such equipment. (Typical)
18. Existing main medium pressure supply air distribution duct. (Typical)
19. Provide new fan powered terminal specified as shown. Connection to main supply air duct shall be made with bellmouth fitting. Fan powered terminal controls shall be as made by "Carrier" as part of the DDC upgrade.
20. Provide cabinet unit heater specified. Refer to manufacturer's instructions for installation.
21. Install owner furnish residential kitchen hood. Provide exhaust vent up through roof and terminate. Refer to manufacturer's requirements for installation.

OUTSIDE AIR VENTILATION NOTE

Air supply to the rooms listed below has been calculated to provide outside air per the requirements of Section 403 and Table 403.3.1.1 of the International Mechanical Code (IMC) based on supply air containing a minimum of 30% outside air.

OUTSIDE AIR CALCULATIONS

WAITING/RECEPT
26 people x 5 CFM per person = 130 CFM
900 S.F. x 0.06 CFM/S.F. = 54 CFM

130 CFM + 54 CFM
0.30 (O.A. ratio) x 0.8 (effectiveness ratio) = 767 CFM
Air quantity shown to be delivered to the room: 1700 CFM

TREATMENT/HYGIENE (TYP.)
2 people x 5 CFM per person = 10 CFM
110 S.F. x 0.06 CFM/S.F. = 7 CFM

10 CFM + 7 CFM
0.30 (O.A. ratio) x 0.8 (effectiveness ratio) = 71 CFM
Air quantity shown to be delivered to the room: 200 CFM MIN

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK.

SWANSON-LEVARY ENGINEERING, LLC
10080 EAST 112TH WAY
HENDERSON, CO 80640
303-660-3535
ryan@swansoneng.com

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No	Revision / Submissions	Date

NORTH

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4888
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

MECHANICAL PLAN

COLORADO LICENSED RYAN MICHAEL SWANSON 42788 5-7-25 PROFESSIONAL ENGINEER

Designed: RMS	Project Number: 45017.0
Drawn: RMS	Scale: 1/4"=1'-0"
Checked: RMS	Drawing Number: M-2
Reviewed: RMS	
Date: APR	

PLUMBING SPECIFICATIONS AND GENERAL NOTES

1. All plumbing work shall be performed in accordance with the latest edition of the International Plumbing Code, International Mechanical Code, International Fuel Gas Code, and as adopted by the local authorities having jurisdiction.

2. Prior to installation of any piping, this Contractor shall verify that the piping can be routed as shown in coordination with Contractors of other divisions of the work and the physical constraints of the Structural and Architectural work.

3. This Contractor shall furnish all labor, materials, tools, supervision and equipment required to complete the plumbing work as shown on the plumbing drawings. Provide all items such as fittings, hangers, insulation, and accessories required as part of the work even though not indicated. Drawings are diagrammatic in nature, and do not show all fittings, riser nipples, arm-overs, hangers, etc. Plumbing drawings are schematic and are not to be scaled. Refer to the Architectural Drawings for dimensions.

4. This Contractor shall maintain at the site one (1) copy of all drawings in good order and record changes made during the construction. Upon completion of work, this Contractor shall prepare and submit to the Owner a reproducible "As-Built" drawing.

5. Provide sleeves for all pipes passing through concrete walls and floors. Provide chrome plated escutcheons for piping penetrations through ceilings, walls and floors where piping is exposed, in order to connect to equipment or fixtures in finished areas. Conceal all other work in finished areas.

6. This Contractor shall not cut through structural members without written consent from the Structural Engineer and the General Contractor.

7. This Contractor shall secure and maintain for the term of this contract all insurance policies or coverage as required by contract and the laws of the State.

8. Coordinate all work with the work of other trades to insure that all work can be installed in an expedient and workmanlike manner. This Contractor shall cooperate with other Contractors in the placement of work to avoid conflicts and to maintain project progress. The General Contractor shall be advised of all conflicts.

9. This Contractor shall obtain permits and pay fees associated with the plumbing system installation. This Contractor shall also be responsible for arranging plumbing inspections with the appropriate building officials.

10. This Contractor is responsible for excavation required for plumbing work. When in-filling excavations, compact to 95% AASHTO Proctor density in 6 inch maximum layers at optimum moisture content. Should any settlement occur within the first year, this Contractor shall rework to original elevation and resolve any damage incurred to the Owner's satisfaction.

11. All materials, equipment and devices furnished by this Contractor shall be guaranteed to be free from mechanical defects or faulty workmanship for a period of one year from date of acceptance by Owner.

12. Sanitary vents shall be piped. Air admittance valves shall not be used unless shown on the drawings, or explicitly approved for use by the engineer. Sanitary vent piping shall slope away from connection to stack and toward the fixture at a minimum of 1/8" per L.F. in order to prevent the entrapment of fluids in the vent lines.

13. Soil, waste and vent pipes and fittings below grade shall be service weight hub and spigot cast iron with neoprene gaskets or schedule 80 PVC pipe.

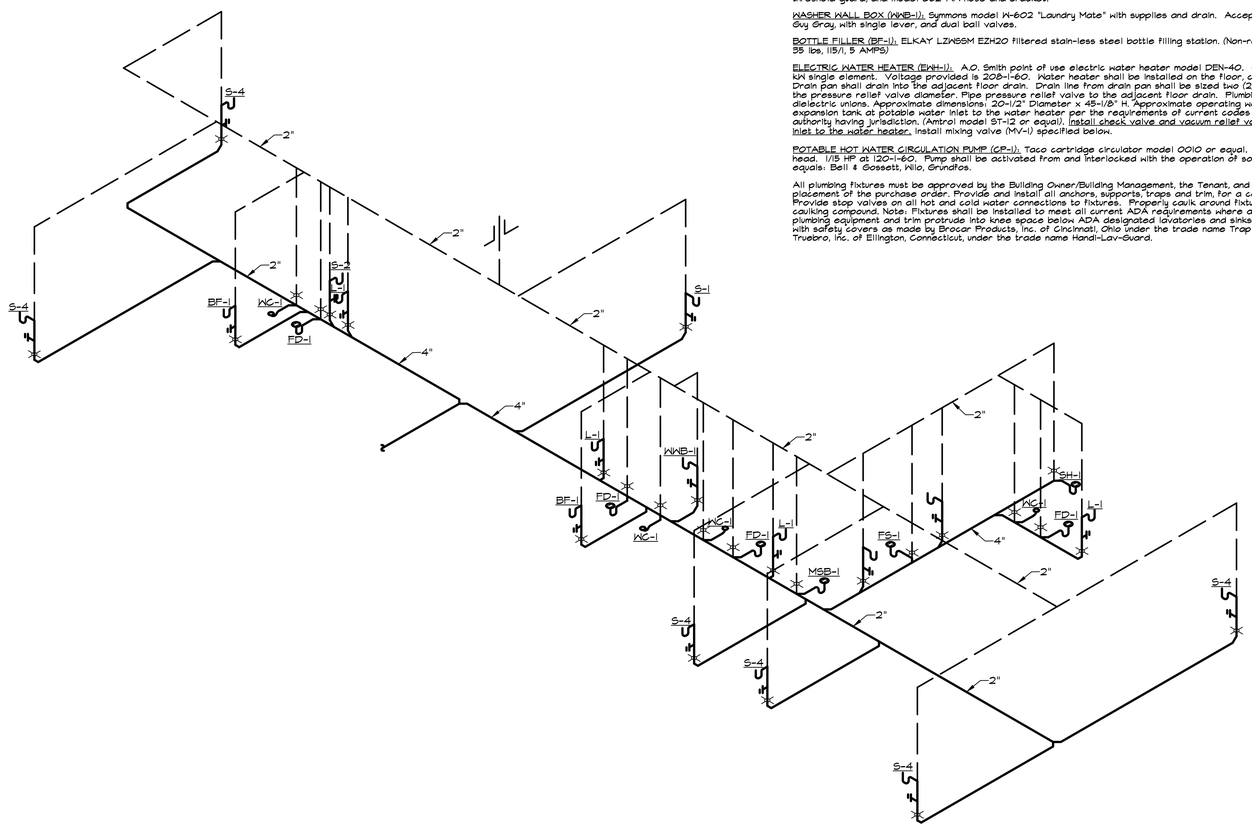
14. Soil and Waste and vent above grade: DWV copper or service weight cast iron soil pipe with no-hub fittings, or Schedule 40 PVC pipe.

15. Potable water piping routed within the building shall be type "L" copper tube with wrought copper fittings and 95% tin, 5% antimony soldered joints. All potable water piping within the building shall be insulated. Insulation shall be covered with all-service jacket.

16. Hangers, supports, and components shall be factory fabricated according to MSS-SP-2009. Pipe supports shall be adjustable band hangers, similar and equal to B Line Fig. B 3172 and Fig. B 3172 GT, with zinc electroplating for steel pipe, and copper electroplating for copper tube.

17. Soil, waste and vent systems shall be air pressure tested at 10 psig for 30 minutes with no leaks. Potable water pipes, valves, and fittings shall be disinfected , and air pressure tested at 125 psig for 60 minutes with no drop in pressure. Natural gas systems shall be tested at 100 psig air pressure for three (3) hours with no drop in pressure, with joints tested using standard soap and brush inspection.

18. Materials within return air plenums shall be noncombustile or shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with ASTM E 84 or UL 723. [602.2.1 IMC 2018]



WASTE & VENT ISOMETRIC
NOT TO SCALE

PLUMBING FIXTURES

NOTE: Final selection and approval of all plumbing fixtures is the responsibility of the Tenant, the Architect, and the Building Owner. The following fixture specifications represent the Engineer's understanding of the required fixtures. These specifications shall be reviewed by the Architect and the Tenant. Contractor shall not place any purchase orders for the fixtures prior to obtaining written approval from the Tenant. Number of holes in sinks, and distance between them shall be matched to faucets provided.

WATER CLOSET (WC-1): American Standard pressure assisted 3042.104 white elongated "Cadet I?" EL 1.6/PA floor mounted with 4026.225 flush tank 1.6 GPF water closet, meeting ADA requirements, with white open front seat without cover; Olsonite #45. Provide complete with 1/2" polished chrome wheel handle angle supply and stop valve and riser, one piece chrome plated metal escutcheon. Floor to rim height: 18". Approved equal: Eljer Aquasaver with PF/2 energizer flushing system.

LAVATORY (L-1): CeraStyle 037100-U lavatory 18.9" W x 23.6" L O.D. with integral grid drain and 1-1/4" "P" trap with drain tubing to wall, slip inlet and chrome plated escutcheon. 1/2" nominal inlet polished chrome wheel handle angle supply and stop valve and riser, one piece chrome plated metal escutcheon. Faucet: Delta washerless single lever model 540-MF with aerator and 0.5 GPM restrictor. Tailpiece shall offset "P" trap out of knee space. Floor to rim height: 34".

FLOOR DRAIN (FD-1): J.R. Smith model 2005-A or equal, 2" floor drain with cast iron body, adjustable strainer complete with deep seal cast iron "P" trap, connection for J.R. Smith, Prime Eze Water Saver Trap Primer model No. 2698ADA, and Nickel Bronze adjustable strainer head. Floor drain shall be connected to a trap primer.

TRAP PRIMER: J.R. Smith, Prime Eze Water Saver Trap Primer model No. 2698ADA or equal. Connect to the tailpiece fitting at the lavatory.

SINK (S-1) Break Room: Elkay model GECR-2521-L single compartment self rimming stainless steel sink, 25" x 21-1/4" O.D. 21" x 15-3/4" I.D., 5-3/8" deep with "P" trap with drain tubing to wall, slip inlet and chrome plated escutcheon. 1/2" nominal inlet polished chrome wheel handle angle supply and stop valve and riser, one piece chrome plated metal escutcheon, complete with all trim. Faucet: Delta "Trinsic" series model 4184-DST chrome neck faucet with single lever (3 hole installation) complete with separate spray, aerator, and 0.5 GPM restrictor. Dispeser: In-Sink-Erator model Badger V, 1/2 HP, 120-1-60.

SINK (S-2) Lab: Elkay model DLR-2522-10, 25" x 22" O.D. x 10" deep, single compartment 18 gauge stainless steel self-rimming sink with polished chrome finish, and three faucet holes. Complete with waste fitting, crumb cup strainer with removable basket and 1-1/2" tailpiece, 1-1/4" "P" trap with drain tubing to wall, slip inlet and chrome plated escutcheon. 1/2" nominal inlet polished chrome wheel handle angle supply and stop valve and riser, one piece chrome plated metal escutcheon. Faucet: Delta "Trinsic" series model 4184-DST chrome neck faucet with single lever (3 hole installation) complete with separate spray, aerator, and 0.5 GPM restrictor. Sink waste shall be routed through plaster trap. Plaster trap supplied by dental equipment supplier, installed by this Contractor.

PLASTER TRAP (PT-1): GLECO model GT-64 with filter medium for plaster. Approximate dimensions: 11"W x 9"D x 12"H. Approximate operating weight: 70 lbs.

SINK (S-3) Sterilization: Elkay model DLR-2522-10, 25" x 22" O.D. x 10" deep, single compartment 18 gauge stainless steel self-rimming sink with polished chrome finish, and three faucet holes. Complete with waste fitting, crumb cup strainer with removable basket and 1-1/2" tailpiece, 1-1/4" "P" trap with drain tubing to wall, slip inlet and chrome plated escutcheon. 1/2" nominal inlet polished chrome wheel handle angle supply and stop valve and riser, one piece chrome plated metal escutcheon. Faucet: Delta "Trinsic" series model 4184-DST chrome neck faucet with single lever (3 hole installation) complete with separate spray, aerator, and 0.5 GPM restrictor. .

EYE WASH FOUNTAIN (EWF-1): Guardian model G-5022-TMV deck mounted dual purpose eye wash/drench hose with two gentle spray outlet heads angled at 45 degrees, and squeeze valve with locking clip. Furnish complete with tempering valve specified below.

EYE WASH FOUNTAIN TEMPERING VALVE (TV-1): Guardian emergency fixture mixing valve model G-3600. Outlet temperature range: 60oF to 120oF. Valve shall meet the requirements of ASSE Standard 1016-96 and 1070 and ANSI Z-358.1-2004.

SINK (S-4) Operatories: Elkay model ELUH-12FB round undermount 18 gauge stainless steel sink, 14-3/8" diameter with integral grid drain, and cup strainer. 1-1/4" "P" trap with drain tubing to wall, slip inlet and chrome plated escutcheon. 1/2" nominal inlet polished chrome wheel handle angle supply and stop valve and riser, one piece chrome plated metal escutcheon, complete with all trim. Faucet: Chicago Faucet model 895-317 goosneck faucet with wrist blades and 4" inlet centers, complete with aerator, and 0.5 GPM restrictor. Faucet shall be installed in the counter, bordering the sink ledge.

FLOOR SINK (FS-1): Josam model 49000 Indirect Floor sink waste receptor. 8" square by 6" deep acid resistant porcelain enameled interior, and nickel bronze grate. Flashing flange and removable Lumaloy dome bottom strainer. Provide complete with cast iron "P" trap, and half grate configuration, unless specified otherwise.

SOLENOID VALVE WITH BYPASS AND FILTER: Midmark 1-1/2" solenoid valve system with filter and bypass model No. 1T0021-M1 or equal.

SERVICE SINK (MSB-1): Fiat Products, Inc. model MSB-2424 molded stone mop service basin, complete with model 830-AA faucet with vacuum breaker nozzle and hose thread-on outlet, pail hook, and wall support bracket. 874 cast brass drain body with stainless steel 1455-BB strainer. Provide and install model 884-CC mop hanger above sink, model E-77-AA threshold guard, and model 852-AA hose and bracket.

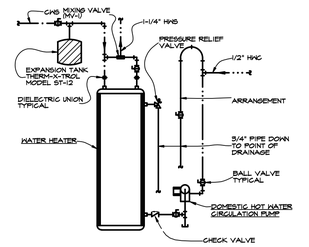
WASHER WALL BOX (WHB-1): Symmons model W-602 "Laundry Mate" with supplies and drain. Acceptable equal: Oatey, or Guy Gray, with single lever, and dual ball valves.

BOTTLE FILLER (BF-1): ELKAY LZWSSM EZH20 filtered stain-less steel bottle filling station. (Non-refrigerated, 23"x14"x31", 35 lbs, 115/1, 5 AMPS)

ELECTRIC WATER HEATER (EWH-1): A.O. Smith point of use electric water heater model DEN-40. 40 gallon capacity, 4.5 kW single element. Voltage provided is 208-1-60. Water heater shall be installed on the floor, complete with drain pan. Drain pan shall drain into the adjacent floor drain. Drain line from drain pan shall be sized two (2) pipe sizes larger than the pressure relief valve diameter. Pipe pressure relief valve to the adjacent floor drain. Plumbing connections with dielectric unions. Approximate dimensions: 20-1/2" Diameter x 45-1/8" H. Approximate operating weight: 460 lbs. Install expansion tank at potable water inlet to the water heater per the requirements of current codes as adopted by the local authority having jurisdiction. (Amtrol model ST-12 or equal). Install check valve and vacuum relief valve at the cold water inlet to the water heater. Install mixing valve (MV-1) specified below.

POTABLE HOT WATER CIRCULATION PUMP (CP-1): Taco cartridge circulator model 0010 or equal. 5.0 GPM at 10.0 feet head. 1/15 HP at 120-1-60. Pump shall be activated from and interlocked with the operation of solenoid valve. Approved equals: Bell & Gossett, Wilo, Grundfos.

All plumbing fixtures must be approved by the Building Owner/Building Management, the Tenant, and the Architect, prior to placement of the purchase order. Provide and install all anchors, supports, traps and trim, for a complete installation. Provide stop valves on all hot and cold water connections to fixtures. Properly caulk around fixtures with silicone based caulking compound. Note: Fixtures shall be installed to meet all current ADA requirements where applicable. Where plumbing equipment and trim protrude into knee space below ADA designated lavatories and sinks, they shall be covered with safety covers as made by Brocar Products, Inc. of Cincinnati, Ohio under the trade name Trap Wrap, or as made by Truebro, Inc. of Ellington, Connecticut, under the trade name Handi-Lav-Guard.



WATER HEATER PIPING DIAGRAM
NOT TO SCALE

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK.

SWANSON-LEVARY ENGINEERING, LLC
10080 EAST 112TH WAY
HENDERSON, CO 80640
303-660-3535
ryan@swansoneng.com

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NORTH

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

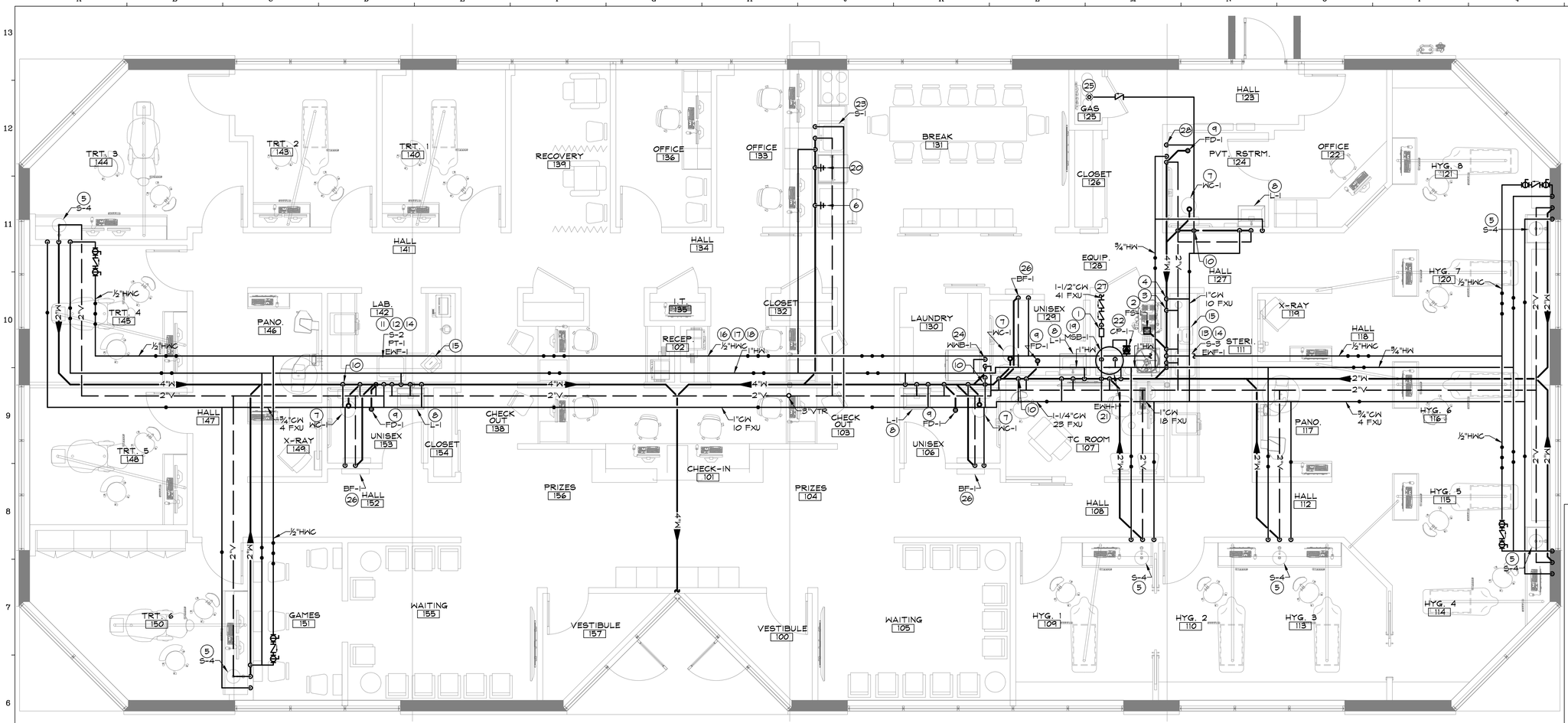
Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

PLUMBING INFORMATION PLAN

COLORADO LICENSED RYAN MICHAEL SWANSON 42788 5-1-25 PROFESSIONAL ENGINEER

Designed: RMS	Project Number: 45017.0
Drawn: RMS	Scale: 1/4"=1'-0"
Checked: RMS	Drawing Number: P-1
Reviewed: RMS	
Date: APR	



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PLUMBING PLAN KEYED NOTES

1. Provide 1-1/2" solenoid valve with water purifier/filter and bypass specified. Solenoid valve shall be operated from the dental equipment air-water-vacuum control panel. See the electrical drawings and the Architectural drawing, sheet A1.4 for the location of the control panel.
2. Rough-in and connect 4" waste and 2" vent to the floor sink specified.
3. Rough-in and connect 2" waste and 1-1/2" vent to "P" trap. Exact location and height above floor shall be determined and coordinated with the Dental Equipment Supplier at the site based on the exact location of the vacuum pump and the requirements of the vacuum pump manufacturer. Vacuum pump shall drain directly into the "P" trap per NFPA 5.3.3.6.3.1 and Section 715.1 of the International Plumbing Code (IPC).
4. Provide 3/8" potable cold water to the vacuum pump if required by the Dental Equipment Supplier. If installed, the connection shall consist of 3/8" recessed quarter turn MIP shut-off valve (as made by Oatey or equal) with 3/8" soft copper tubing for connection to the vacuum pump. Install Watts model SC-2DN backflow prevention device prior to connection to the vacuum pump. Saddle valves are not acceptable. Coordinate exact location with the Dental Equipment Supplier. Provide drain connection for the vacuum pump as stated above, and as directed by the Dental Equipment Supplier.
5. Rough-in and connect 2" waste, 1-1/2" vent, 1/2" HW and 1/2" CW to the sink specified. Provide with ASSE 1070 approved mixing valve at all lavatory/hand sinks.
6. Provide valved 1/4" soft copper water supply connection with recessed quarter turn MIP shut-off valve (as made by Oatey or equal) to the refrigerator. Install recessed valve under the sink at location to be determined and coordinated at the site. Saddle valves are not acceptable. Install 1/4" soft copper connection through the cabinet to the refrigerator. Refrigerator provided by the tenant, connected by the Mechanical Contractor.
7. Rough-in and connect 4" waste, 2" vent, and 1/2" CW to the water closet specified as shown.
8. Rough-in and connect 2" waste, 1-1/2" vent, 1/2" HW and 1/2" CW to the lavatory specified as shown. Install trap primer: J.R. Smith, Prime Eze Water Saver Trap Primer model No. 2698-ADA or equal, connected to the tailpiece fitting at the lavatory. Provide ASSE 1070 approved mixing valve.
9. Rough-in and connect 2" waste and 1-1/2" vent to the floor drain specified. Install trap primer: J.R. Smith, Prime Eze Water Saver Trap Primer model No. 2698-ADA or equal, connected to the tailpiece fitting at the lavatory.
10. Provide shock arrester at end of pipe as shown. Shock arrester shall be as made by Sioux Chief, Watts, or equal, and shall be sized in accordance with the pipe it is connected to.
11. Rough-in and connect 2" waste, 1-1/2" vent, 1/2" HW and 1/2" CW to sink specified. Sink waste shall be routed through plaster trap. Plaster trap supplied by dental equipment supplier, installed by this Contractor. Offset hot and cold water through cabinet space as required.
12. Provide plaster trap specified under the sink. Waste from the sink shall be routed through the plaster trap. Install a tailpiece fitting for the model trimmer drain connection.
13. Rough-in and connect 2" waste, 1-1/2" vent, 1/2" HW and 1/2" CW to the fixture specified. Provide drain connection for the ultrasonic cleaner at the tailpiece fitting of the sink, complete with air gap fitting.
14. Provide emergency eye wash fountain specified (EWF-1) at the sink ledge. Rough-in and connect 1/2" potable hot and cold water through tempering valve specified (TV-1) to the eye wash fountain. Tempering valve (TV-1) shall be set to 80oF (adjustable).
15. Provide drain connection from the ultrasonic cleaner to the tailpiece fitting with air gap connection at the adjacent sink.
16. Potable cold water piping shall be insulated with 1/2" formed fiberglass insulation with minimum conductivity of k-0.27 for all cold water piping operating between 40-60 deg F and service jacket.
17. Potable hot water piping shall be insulated with 1" formed fiberglass insulation with minimum conductivity of k-0.28 for all hot water piping operating between 105-140 deg F and service jacket.
18. Potable hot water circulation return piping shall be insulated with 1" formed fiberglass insulation with with minimum conductivity of k-0.28 for all hot water piping operating between 105-140 deg F. See water heater piping diagram for additional information.
19. Rough-in and connect 1/2" HW, 1/2" CW, 1-1/2" VENT, AND 3" WASTE to mop service sink specified.
20. Connect waste, and 1/2" valved hot water to dishwasher. Connect dishwasher waste with dishwasher air gap fitting to "P" trap tailpiece fitting or dishwasher connection at disposer. Install air gap fitting in sink ledge.
21. Provide new water heater specified on stand, complete with drain pan. Drain pan shall drain into the adjacent mop sink. Pipe pressure relief valve to the adjacent floor sink. Install expansion tank at potable water inlet to the water heater per the requirements of current codes as adopted by the local authority having jurisdiction. (Amtrol model ST-12 or equal). Hot and cold water pipe connections to the electric water heater shall be made with full port ball valve, and dielectric union. Install check valve at cold water inlet to the water heater, and heat trap fittings as made by Rheem, or equal at hot and cold water connections to the water heater.
22. Provide potable hot water circulation pump (CP-1) adjacent to the water heater and connect the potable hot water circulation return pipe to the water heater and the pump. Circulation pump shall be activated by the Air-Water-Vac dental control panel in conjunction with the solenoid valve. See the electrical drawings and the architectural sheet A1.4 for the location of the Air-Water-Vac control panel.
23. Rough-in and connect 2" waste, 1-1/2" vent, 1/2" HW and 1/2" CW to the sink specified.
24. Rough-in and connect 2" waste, 1-1/2" vent, 1/2" HW and 1/2" CW to the washer wall box specified.
25. The fire protection contractor shall install new sprinkler head , and connect to the building's domestic water system. Sprinkler head shall be a dry pendant type, installed in a manner preventing freezing.
26. Rough-in and connect 2" waste, 1-1/2" vent, and 1/2" CW to the bottle filler specified.
27. Provide 1-1/2" Febco model 860 or equal, reduced pressure backflow preventer as shown. Dumping port of backflow prevention device shall be piped into adjacent floor sink. Install bronze Y strainer upstream of the device. Connect to existing 1" cold water main as required.
28. Rough-in 1/2" HW and 1/2" CW for future shower.

SWANSON-LEVARY ENGINEERING, LLC
10080 EAST 112TH WAY
HENDERSON, CO 80640
303-660-3535
ryan@swansoneng.com

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NORTH

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-6895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

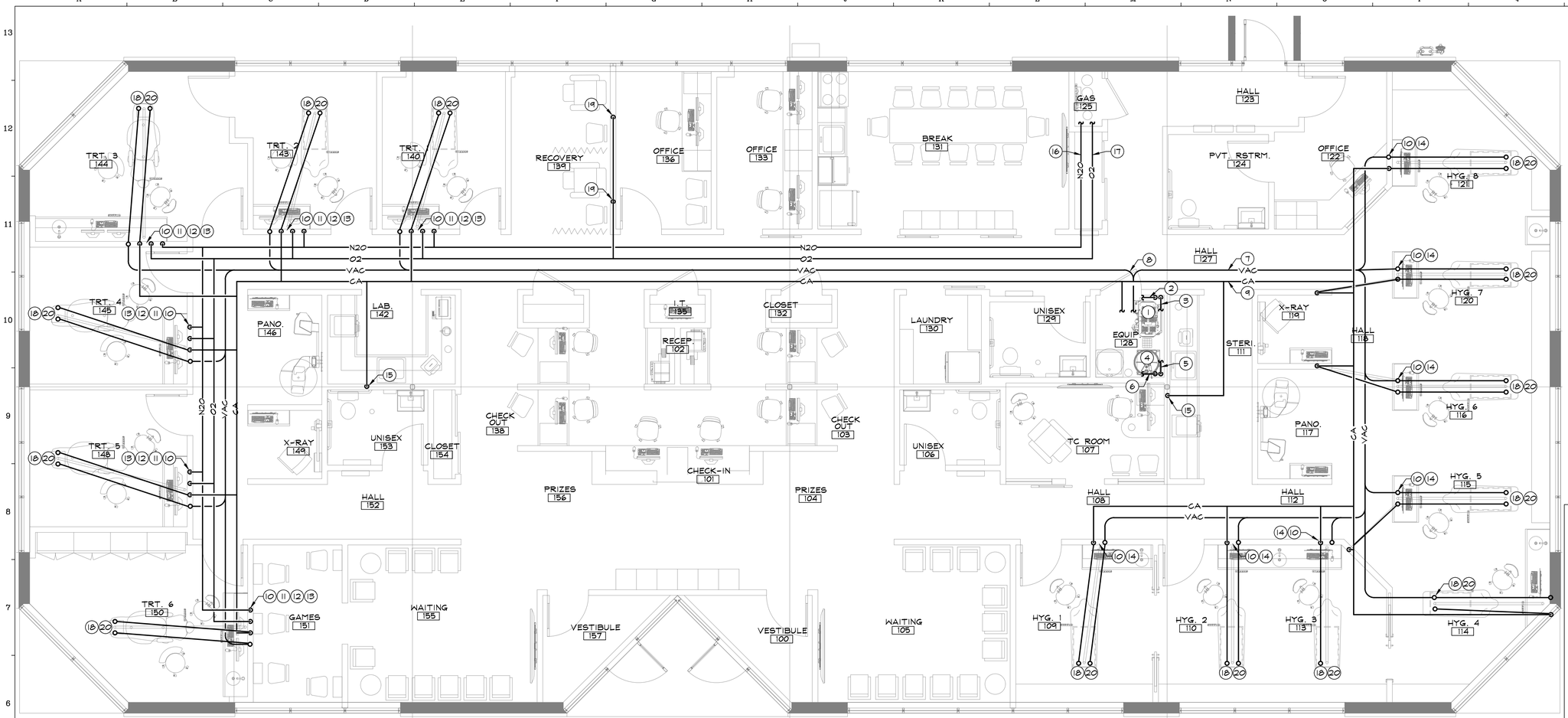
Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

PLUMBING PLAN

COLORADO LICENSED RYAN MICHAEL SWANSON 42788 5-7-25 PROFESSIONAL ENGINEER

Designed: RMS	Project Number: 45017.0
Drawn: RMS	Scale: 1/4"=1'-0"
Checked: RMS	Drawing Number: P-2
Reviewed: RMS	
Date: APR	



ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK.

DENTAL SPECIALTIES GENERAL NOTES

NOTE: All vacuum, compressed air and medical gas systems within this tenant space are classified by NFPA 99c as Class III systems.

NOTE: All vacuum and compressed air piping throughout the suite shall be installed per the instructions, specifications and drawings of the Dental Equipment Supplier. The Dental Equipment Supplier shall provide the layout, routing and sizes of all piping. Refer to the Dental Equipment Supplier drawings for more information. All dental specialties pipe sizes shall be as determined by the Dental Equipment Supplier.

1. The work included under these construction documents consists of providing all equipment, labor, supervision, and construction procedures necessary for the installation of complete mechanical system(s) required by, or shown on these drawings. Contractor shall pay for all permits and/or fees required for the work.
2. All work shall be in accordance with local codes. These codes shall be followed as a minimum, providing higher grades of materials and workmanship where required. All work shall conform to the requirements of authorities having jurisdiction, and local regulatory agencies.
3. This Contractor is responsible for all aspects of job-site safety. The Engineer is not responsible for means, methods and safety measures employed by the Contractor in the installation of the work depicted on these drawings.
4. The drawings indicate general design and arrangement of pipes, equipment, and systems. Drawings are diagrammatic in nature, and do not indicate every required offsets, fittings, etc. Follow drawings as close as actual construction and the work of other trades permits.
5. Provide and connect all appliances, equipment, piping, and accessories as specified and indicated for this project, in accordance with all applicable codes, manufacturer's published installation instructions, and as specified. Provide complete mechanical connections and terminations as indicated, and as required for complete and functional system(s). Coordinate with other trades, the Architect and conditions at the site to establish the actual location of equipment.
6. The contractor is responsible to coordinate all work under his contract with the work of all other trades.
7. All work shall be installed from field dimensions to assure that it can be installed as shown. Any conflicts shall be brought to the attention of the Architect and the Engineer immediately for resolution prior to fabrication of components, or installation of equipment. Carefully coordinate location of equipment and piping with ceiling, light fixtures, existing systems, structural elements, and the work of other trades.
8. All equipment shall be installed in accordance with the manufacturer's recommendations, and published installation instructions, maintaining all necessary clearances for service and repair.
9. Contractor shall verify existing conditions at the site prior to the purchase or fabrication of materials, components, equipment, and the commencement of work. Notify Architect and Engineer of any conflicts requiring resolution as soon as such conflicts become apparent. The bid shall serve as evidence of the Contractor's knowledge of existing conditions.
10. Refer to the Architectural drawings for exact location of partitions, walls, plumbing fixtures and general construction.
11. All vacuum pipes below the floor shall be schedule 40 PVC. Contractor shall install only sweep elbows, or two 45 degree elbows when making a 90 degree change in direction.
12. Compressed air piping shall be type "L" copper tubing with wrought copper fittings with 95% Tin, 5% Antimony soldered joints. Piping shall be tested to 150 PSI, and show no leaks. Compressed air piping shall be clearly labeled per NFPA 99C.
13. Plumbing Contractor shall coordinate installation with dental equipment supplier/installer. All utility and medical gasses requirements and connections as applicable for this project, whether shown on the drawings or not, shall be cross-referenced with the Dental Equipment Specification Sheet to be provided by the Dental Equipment Supplier.
14. Plumbing Contractor shall make all final connections to equipment as directed by, and coordinated with the Dental Equipment Supplier. Final locations of all connections to be determined by the dental equipment supplier.
15. All piping shall be properly, and legibly labeled.
16. Nitrous Oxide (N2O) and Oxygen (O2) piping shall be type "L", pre-cleaned, de-greased, capped seamless copper tubing only. All joints shall be silver brazed. Piping shall be tested to 150 PSI, and show no leaks. Nitrous Oxide (N2O) and Oxygen (O2) piping shall be clearly labeled per NFPA 99C.

DENTAL SPECIALTIES PLAN KEYED NOTES

1. Provide the vacuum pump on the floor as shown. Exact location shall be determined and coordinated with the Dental Equipment Supplier at the site. Vacuum pump shall drain in-directly into "P" trap provided for this purpose.
2. Main vacuum connection to vacuum pump from the vacuum pump to the underside of the floor slab. Connect main vacuum trunk line to the vacuum pump. Coordinate exact location, connection size, valving, and means of termination with the Dental Equipment Supplier. Install only sweep elbows, or two 45 degree elbows when making a 90 degree change in direction.
3. Route vacuum pump discharge up to above the ceiling, and through the roof. Terminate with two 90 degree elbows forming and inverted "U" shaped pipe with open end facing down. Properly flash and seal roof penetration. Coordinate all roof penetrations with the structure. Point of termination shall be no less than 10'-0" away from any outside air intake. All roof penetrations shall be coordinated with the building's roofing contractor where applicable. Pipe size shall be determined by the Dental Equipment Supplier. (Typical of 2)
4. Provide the air compressor on the floor as shown. Exact location shall be determined and coordinated with the Dental Equipment Supplier at the site.
5. Route 2" intake pipe for compressor up to ceiling. Terminate with two 90 degree elbows forming inverted "U" shaped pipe with open end facing down. Install air filter as required.
6. 1/2" compressed air pipe up, and routed above ceiling. Coordinate exact location, connection size, valving, and means of termination with Dental Equipment Supplier.
7. Vacuum piping routed below the floor. Slope at 1/4" per 10 L.F. toward the vacuum pump. Vacuum pipe sizing shall be in accordance with the dental equipment supplier drawings and specifications. (Typical of all vacuum piping)
8. Provide only sweep elbows, or two 45 degree elbows when making a 90 degree change in direction. (Typical of all vacuum piping)
9. 1/2" compressed air routed above ceiling. Exact height above the ceiling shall be determined and coordinated at the site. Pipe shall slope at 1/4" per L.F. toward the compressor.
10. 5/8" O.D. vacuum pipe up through the floor, and into the rear delivery unit. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier. Install only sweep elbows, or two 45 degree elbows when making a 90 degree change in direction.
11. 1/2" compressed air pipe down in wall, and into the rear delivery unit. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier.
12. Medical gas pipes (1/2" N2O) down wall and into the rear delivery unit. Coordinate exact location, connection sizes, valving, and means of termination with the Dental Equipment Supplier.
13. Medical gas pipes (1/2" O2) down wall and into the rear delivery unit. Coordinate exact location, connection sizes, valving, and means of termination with the Dental Equipment Supplier.
14. 1/2" compressed air pipe up through the floor, and into the rear delivery unit. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier.
15. 1/2" compressed air pipe down in wall, and into lab area. Terminate above the counter with chrome valve and escutcheon. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier.
16. Medical gas piping up from gas closet manifold and routed to above the ceiling. 1/2" O.D. tubing for(N2O) Piping shall be clearly labeled AT 10'-0" on center max and at least once in each room. (Typical)
17. Medical gas piping up from gas closet manifold and routed to above the ceiling. 1/2" O.D. for (O2). Piping shall be clearly labeled AT 10'-0" on center max and at least once in each room. (Typical)
18. 1/2" compressed air pipe up through the floor, and into the utility box connection at the foot of the chair. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier.
19. 1/2" O2 down wall, and into recovery area. Terminate above the counter with chrome valve and escutcheon. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier.
20. 5/8" O.D. vacuum pipe up through the floor, and into the utility box connection at the foot of the chair. Coordinate exact location, connection sizes, valving, and means of termination with Dental Equipment Supplier.

SWANSON-LEVARY ENGINEERING, LLC
10080 EAST 112TH WAY
HENDERSON, CO 80640
303-660-3535
ryan@swansoneng.com

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BATTISTA DESIGN GROUP
3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
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DENTAL SPECIALTIES PLAN

COLORADO LICENSED RYAN MICHAEL SWANSON 42788 5-7-25 PROFESSIONAL ENGINEER

Designed: RMS	Project Number: 45017.0
Drawn: RMS	Scale: 1/4"=1'-0"
Checked: RMS	Drawing Number: P-3
Reviewed: RMS	
Date: APR	

SYMBOL LEGEND

Symbol	Description
	Distribution Equipment; Switchgear, Panelboards
	Branch Circuit Panel
	Telephone Terminal
T	Transformer
	Fused Disconnect Switch (Non-Fused When Fusing Not Required)
	Combination Starter/Disconnect Sw.
	Magnetic Starter or Contactor
M	Meter
M	Motor Outlet and Connection
	Fused Disconnect Sw., Diagrammatic
	Circuit Breaker, Diagrammatic
	Indicates Detail Note
MV, EM, UPS	Indicates Mechanical Equipment
22A	Indicates Kitchen Equipment, Riser, or Room Number
	Circuit Run; In Walls and Above Ceiling (Concealed)
	Circuit Run; Underground or in Floor
	Circuit Run; Exposed
	Circuit Risers; Up,Down
	Home Run; Arrows Indicate Number of Circuits
	Overhead Service Entrance
O_a	Letter Indicates Fixture Type, See Schedule for Description
O_{2a}	Lower Case Subscript Indicates Switching
	Shading Indicates Connection to Emergency, Egress, or Night-Light Circuit
	Fixtures Surface Mounted on Ceiling
	Fixtures Recessed in Ceiling
	Wall Mounted Fixtures
	Exit Lights; Mounting Faces and Arrows as Indicated
	Porcelain Keyless Lampholder with 100W A19 Lamp; PC Indicates Pull Chain
	Duplex Receptacle; Wall
	Double Duplex Receptacle
	Switched Receptacle; Half, Full
IG	Isolated Ground Receptacle
AC	Above Counter Receptacle; +4" Above Top Of Backsplash
WP	Weatherproof Duplex Receptacle
GFI	Ground Fault Interrupt Duplex Receptacle
AG	Ground Fault Interrupt Duplex Receptacle; Above Counter
TR	Tamper Resistant Duplex Receptacle
	Ceiling Mtd. Duplex Receptacle
	Special Configuration Receptacle
	Duplex Receptacle; Floor
	Recessed Clock Style Receptacle
	Junction Box; Wall
	Junction Box; Ceiling
	Telephone Outlet; Wall
	Computer Data Outlet; Wall
	Combination Telephone & Computer Data Outlet; Wall
	Telephone Outlet; Floor
	Special Configuration Combination Floor Outlet/Box
	T.V. Outlet
S^a	Single Pole Switch; Subscripts Indicate Switching
S^2	Double Pole Switch
S^3 S^4	Three and Four Way Switching
S^P	Switch with Pilot Light
S^K	Key Operated Switch
S^{LV}	Low Voltage Switch
S^{OS}	Occupancy Sensor Switch
OS	Ceiling Mounted Occupancy Sensor
	Gang Mounted Switching
	Combination Switch and Duplex Receptacle
S^{TO}	Thermal Overload Switch
D	Dimmer Switch
TC	Time Clock
P	Photo Cell
H	Hood Outlet and Connection
D	Disposer Receptacle and Connection
	Surface Raceway
	Pushbutton Stations
	Tele-Power Pole
	Items Shown Heavy and/or Denoted (N) Are New Unless Otherwise Noted.
(E)	Items Shown Light and/or Denoted (E) Are Existing To Remain Unless Otherwise Noted
	Items Shown Dashed Are Existing To Be Removed Unless Otherwise Noted
(R)	Items Shown Heavy and Denoted (R) Are Relocated Unless Otherwise Noted.

NEW PANEL "P2" **

VOLTS: 208/120V,3PH,4W
MAINS: 200A M.L.O.
A.I.C.: 22KA

MTG: FLUSH NEMA 1
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

	DESCRIPTION	T	KVA	BKR	CKT#			BKR	KVA	T	DESCRIPTION
	HALL RECS	R	0.90	20A1P	1	♦	2	20A1P	0.72	R	OFFICE RECS
	EWC	R	0.18	20A1P	3	♦	4	20A1P	0.72	R	HYG 8 RECS
	GAS MANIFOLD	R	0.18	20A1P	5	♦	6	20A1P	0.18	R	OFFICE COPIER
	HYG 7 RECS	R	0.90	20A1P	7	♦	8	20A1P	0.72	R	XRAY
	HYG FLOOR RECS	R	0.72	20A1P	9	♦	10	20A1P	0.72	R	XRAY PC RECS
	HYG FLOOR RECS	R	0.72	20A1P	11	♦	12	20A1P	0.72	R	HYG 6 RECS
	HYG 5 RECS	R	0.72	20A1P	13	♦	14	20A1P	0.90	R	HYG 2/3 RECS
	HYG 3 RECS	R	0.90	20A1P	15	♦	16	20A1P	0.72	R	HYG 1 RECS
	HYG 4 RECS	R	0.72	20A1P	17	♦	18	20A1P	0.54	R	HYG 1 RECS
	WAITING RECS	R	0.72	20A1P	19	♦	20	20A1P	0.36	R	PANOREX
	HYG 2/3 RECS	R	0.72	20A1P	21	♦	22	20A1P	0.72	R	PANO PC RECS
	EF-1/2/8	C	0.36	20A1P	23	♦	24	20A1P	0.90	R	TC ROOM RECS
	STERI REC	R	0.18	20A1P	25	♦	26	20A1P	0.18	R	STERI REC
	STERI REC	R	0.18	20A1P	27	♦	28	20A1P	0.18	R	STERI REC
	STERI REC	R	0.18	20A1P	29	♦	30	20A1P	0.18	R	STERI REC
*	WASHER	R	0.72	20A1P	31	♦	32	20A1P	0.18	R	BREAK REC
	EWC/RR RECS	R	0.54	20A1P	33	♦	34	20A1P	1.18	M	BREAK DISPOSAL
	CHECK OUT RECS	R	1.08	20A1P	35	♦	36	20A1P	0.12	M	BREAK HOOD
	OFFICE RECS	R	1.08	20A1P	37	♦	38	20A1P	0.36	R	BREAK DW
	OFFICE RECS	R	0.72	20A1P	39	♦	40	20A1P	0.72	R	BREAK FRIDGE
	RECOVERY RECS	R	0.54	20A1P	41	♦	42	20A1P	0.18	R	BREAK REC
	TRT 1 RECS	R	0.36	20A1P	43	♦	44	20A1P	0.36	R	TRT 2 RECS
	TRT 1 RECS	R	0.72	20A1P	45	♦	46	20A1P	0.72	R	TRT 2 RECS
	TRT 1 RECS	R	0.54	20A1P	47	♦	48	20A1P	0.54	R	TRT 2 RECS
	TRT 3 RECS	R	0.72	20A1P	49	♦	50	20A1P	0.90	R	TRT 4 RECS
	TRT 3 RECS	R	0.54	20A1P	51	♦	52	20A1P	0.54	R	TRT 4 RECS
	EXTERIOR IRRIG CNT	R	0.18	20A1P	53	♦	54	20A1P	0.90	R	TRT 3/4 RECS
	PANO PC RECS	R	0.72	20A1P	55	♦	56	20A1P	0.18	R	LAB REC
	LAB REC	R	0.18	20A1P	57	♦	58	20A1P	0.18	R	LAB REC
	PANOREX	R	0.36	20A1P	59	♦	60	20A1P	0.18	R	LAB REC
	TRT 5 RECS	R	0.72	20A1P	61	♦	62	20A1P	0.18	R	LAB REC
	TRT 5 RECS	R	0.36	20A1P	63	♦	64	20A1P	0.18	R	LAB REC
	TRT 5 RECS	R	0.54	20A1P	65	♦	66	20A1P	0.18	R	LAB REC
	GAMES RECS	R	1.08	20A1P	67	♦	68	20A1P	1.51	L	HALL/RECEP LTG
	TRT 6 RECS	R	0.72	20A1P	69	♦	70	20A1P	1.49	L	WTG/HYG/GAME LTG
	TRT 6 RECS	R	0.72	20A1P	71	♦	72	20A1P	1.53	L	TRT/RR/STERI LTG
++	EXTERIOR SIGN	L	1.20	20A1P	73	♦	74	20A1P			SPARE
++	PARKING LOT LTG	L	0.25	20A1P	75	♦	76	20A1P			SPARE
++	EXISTING EXT LTG	L	0.15	20A1P	77	♦	78	20A1P			SPARE
	CUH-1	H	1.50	20A1P	79	♦	80	100A / 3P	3.35	P	SUBFEED P3
	CUH-2	H	1.50	20A1P	81	♦	82		2.84	P	-
	SPARE			20A1P	83	♦	84		2.40	P	-

LOAD KVA	LTG	REC	MTR	HTR	TOTAL
CONNECTED	7.5	42.5	1.7	3.7	55.4
NEC DEMAND	9.4	26.2	2.0	3.7	41.3
AMPS					115

PHASE KVA	A	=	21.4	B	=	19.1	C = 14.8
PHASE IMBALANCE (%)	A/B	=	11.9	B/C	=	29.1	C/A = 44.5

** PROVIDE SINGLE SECTION 84 CIRCUIT PANEL AS SHOWN.
* PROVIDE GFCI BREAKER AS SHOWN.
++ ROUTE CIRCUIT THROUGH TIMECLOCK AND PHOTOCELL.

NEW PANEL "P3"

VOLTS: 208/120V,3PH,4W
MAINS: 100A M.L.O.
A.I.C.: 22KA

MTG: SURFACE NEMA 1
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

DESCRIPTION	T	KVA	BKR	CKT#			BKR	KVA	T	DESCRIPTION
CHECK OUT RECS	R	0.54	20A1P	1	♦	2	20A1P	0.48	C	TTB/VF-1
CHECK OUT RECS	R	0.54	20A1P	3	♦	4	20A1P	0.36	R	TTB
COPIER	R	0.18	20A1P	5	♦	6	20A1P	1.08	R	CHECK OUT RECS
COPIER	R	0.18	20A1P	7	♦	8	20A1P	0.36	R	RR/HALL RECS
XRAY PC RECS	R	0.72	20A1P	9	♦	10	20A1P	0.72	R	WAITING RECS
PANOREX	R	0.36	20A1P	11	♦	12	20A1P	0.18	R	ROOF REC
GAMES RECS	R	0.72	20A1P	13	♦	14	20A1P	0.77	C	CP-1/EF-7/SLND
TASK LTG	L	0.30	20A1P	15	♦	16	20A1P			SPARE
TASK LTG	L	0.30	20A1P	17	♦	18	20A1P			SPARE
TASK LTG	L	0.30	20A1P	19	♦	20	20A1P			SPARE
TASK LTG	L	0.20	20A1P	21	♦	22	20A1P			SPARE
TASK LTG	L	0.30	20A1P	23	♦	24	20A1P			SPARE
SPARE			20A1P	25	♦	26	20A1P			SPARE
SPARE			20A1P	27	♦	28	20A1P			SPARE
SPARE			20A1P	29	♦	30	20A1P			SPARE
SPARE			20A1P	31	♦	32	20A1P			SPARE
SPARE			20A1P	33	♦	34	20A1P			SPARE
SPARE			20A1P	35	♦	36	20A1P			SPARE
SPARE			20A1P	37	♦	38				SPACE
SPARE			20A1P	39	♦	40				SPACE
SPARE			20A1P	41	♦	42				SPACE

LOAD KVA	LTG	REC	MTR	HTR	TOTAL
CONNECTED	1.4	6.5	0.4	0.3	8.6
NEC DEMAND	1.8	6.5	0.5	0.3	9.0
AMPS					25

PHASE KVA	A	=	3.3	B	=	2.8	C = 2.4
PHASE IMBALANCE (%)	A/B	=	17.9	B/C	=	18.3	C/A = 39.5

DETAIL NOTES

1. PROVIDE INTERSYSTEM BONDING TERMINATION (IBT) DEVICE PER 2015 NEC 250.94. IBT IS TO BE ACCESSIBLE FOR CONNECTION AND INSPECTION, SHALL CONSIST OF A SET OF TERMINALS WITH THE CAPACITY FOR CONNECTION OF NOT LESS THAN (3) INTERSYSTEM BONDING CONDUCTORS AND NOT INTERFERE WITH OPENING THE ENCLOSURE FOR A SERVICE, BUILDING OR STRUCTURE DISCONNECTING MEANS, OR METERING EQUIPMENT. CONNECT VIA #6 AWG CU CONDUCTOR TO NEUTRAL-GROUND CONNECTION IN MAIN DISCONNECT.

2. 4-POLE MECHANICALLY HELD CONTACTOR IN NEMA-1 ENCLOSURE, TORK MODEL DGUM-100A AND TORK ROOF MOUNTED PHOTOCELL MODEL #EPC1. MOUNT PHOTOCELL ON ROOF AND FACE NORTH. LOCATE TIMECLOCK AS CLOSE AS POSSIBLE TO PANEL.

NEW PANEL "P1" **

VOLTS: 208/120V,3PH,4W
MAINS: 600A M.L.O.
A.I.C.: 22KA

MTG: FLUSH NEMA 1
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

	DESCRIPTION	T	KVA	BKR	CKT#			BKR	KVA	T	DESCRIPTION
	FPB-1	C	1.14	15A	1	♦	2	15A	1.14	C	FPB-8
	-	C	1.14		3	♦	4		1.14	C	-
	-	C	1.14	3P	5	♦	6	3P	1.14	C	-
	FPB-2	C	1.14	15A	7	♦	8	35A	2.39	C	FPB-9
	-	C	1.14		9	♦	10		2.39	C	-
	-	C	1.14	3P	11	♦	12	3P	2.39	C	-
	FPB-3	C	1.14	15A	13	♦	14	35A	2.39	C	FPB-10
	-	C	1.14		15	♦	16		2.39	C	-
	-	C	1.14	3P	17	♦	18	3P	2.39	C	-
	FPB-4	C	1.14	15A	19	♦	20	35A	2.39	C	FPB-11
	-	C	1.14		21	♦	22		2.39	C	-
	-	C	1.14	3P	23	♦	24	3P	2.39	C	-
	FPB-5	C	1.14	15A	25	♦	26	60A	3.64	C	FPB-12
	-	C	1.14		27	♦	28		3.64	C	-
	-	C	1.14	3P	29	♦	30	3P	3.64	C	-
	FPB-6	C	1.14	15A	31	♦	32	60A	3.64	C	FPB-13
	-	C	1.14		33	♦	34		3.64	C	-
	-	C	1.14	3P	35	♦	36	3P	3.64	C	-
*	FPB-7	C	1.14	15A	37	♦	38	30A	1.56	M	VACUUM PUMP
*	-	C	1.14		39	♦	40	2P	1.56	M	-
	-	C	1.14	3P	41	♦	42	40A	2.08	M	AIR COMPRESSOR
	EWH-1	H	2.25	30A	43	♦	44	2P	2.08	M	-
	-	H	2.25	2P	45	♦	46	20A	0.36	R	PANOREX
*	RANGE	K	4.16	50A	47	♦	48	2P	0.36	R	-
	-	K	4.16	2P	49	♦	50	20A	0.36	R	PANOREX
*	DRYER	H	1.50	30A	51	♦	52	2P	0.36	R	-
	-	H	1.50	2P	53	♦	54				SPACE
	SPACE				55	♦	56				SPACE
	SPACE				57	♦	58				SPACE
	SPACE				59	♦	60				SPACE
	SPACE				61	♦	62				SPACE
	SPACE				63	♦	64				SPACE
	SPACE				65	♦	66				SPACE
	RTU-1E	M	13.1	125A	67	♦	68	200A	21.4	P	SUBFEED P2
	-	M	13.1		69	♦	70		19.1	P	-
	-	M	13.1	3P	71	♦	72	3P	14.8	P	-

LOAD KVA	LTG	REC	MTR	HTR	KIT	TOTAL
CONNECTED	7.5	43.9	58.8	71.2	8.3	189.8
NEC DEMAND	9.4	27.0	68.7	71.2	8.3	184.5
AMPS						512

PHASE KVA	A	=	68.4	B	=	61.8	C = 59.5
PHASE IMBALANCE (%)	A/B	=	10.8	B/C	=	3.8	C/A = 15.0

** PROVIDE SINGLE SECTION 72 CIRCUIT PANEL AS SHOWN.
* PROVIDE GFCI BREAKER AS SHOWN.

Isc CALCULATIONS - THREE PHASE

POINT #1, AT THE 150KVA TRANSFORMER (ASSUMING UPSIZE);
Isc 26,000 A

POINT #2, AT THE NEW 600A MAIN DISCONNECT;
f = 1.73 x Length 60 x Isc (source) 26000 / L-L Volts 208 x Wire Factor 42782
f = 0.30
M = 1 / 1+f = 1 / 1 + 0.30 = 0.77
Isc = M x Isc (source) = 0.77 x 26000 A = 19,950 A

POINT #3, AT THE NEW PANEL "P1";
f = 1.73 x Length 15 x Isc (source) 19950 A / L-L Volts 208 x Wire Factor 37512
f = 0.07
M = 1 / 1+f = 1 / 1 + 0.07 = 0.94
Isc = M x Isc (source) = 0.94 x 19950 A = 18,708 A

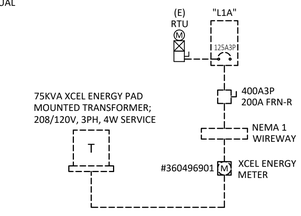
POINT #4, AT THE NEW PANEL "P2";
f = 1.73 x Length 5 x Isc (source) 18708 A / L-L Volts 208 x Wire Factor 12122
f = 0.06
M = 1 / 1+f = 1 / 1 + 0.06 = 0.94
Isc = M x Isc (source) = 0.94 x 18708 A = 17,580 A

POINT #5, AT THE NEW PANEL "P3";
f = 1.73 x Length 5 x Isc (source) 17580 A / L-L Volts 208 x Wire Factor 4774
f = 0.15
M = 1 / 1+f = 1 / 1 + 0.15 = 0.87
Isc = M x Isc (source) = 0.87 x 17580 A = 15,245 A

POINT #6, AT THE EXISTING ROOF TOP UNIT;
f = 1.73 x Length 60 x Isc (source) 18708 A / L-L Volts 208 x Wire Factor 7293
f = 1.28
M = 1 / 1+f = 1 / 1 + 1.28 = 0.44
Isc = M x Isc (source) = 0.44 x 18708 A = 8,205 A

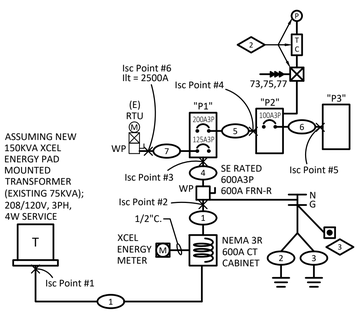
GENERAL NOTES

1. EXISTING CONDITIONS SHALL BE VERIFIED AT THE SITE PRIOR TO SUBMITTING BIDS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE 2020 NATIONAL ELECTRICAL CODE (AS AMENDED BY THE LOCAL JURISDICTION) AND THE INTERNATIONAL BUILDING CODE.
2. ELECTRICAL CONTRACTOR SHALL MAINTAIN ON THE JOB AN UP TO DATE SET OF WORKING DRAWINGS, MARKED UP TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. PROVIDE THE BUILDING OWNER WITH ONE SET OF REPRODUCIBLES WITH "AS BUILT" INFORMATION CLEARLY INDICATED.
3. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DIRECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN BUILDING. ALL DIMENSIONS, MOUNTING HEIGHTS, ETC. SHALL BE VERIFIED ON THE JOB. ELECTRICAL CONTRACTOR SHALL CUT, CHANNEL, CHASE, AND/OR DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES AS REQUIRED FOR INSTALLATION, SUPPORT, ANCHORAGE, ETC., OF WORK. ALL PATCHING SHALL BE INCLUDED.
4. NEW WIRING DEVICES SHALL BE TAMPER RESISTANT SPECIFICATION GRADE; 15 AMP FOR GENERAL APPLICATION, 20 AMP OR GREATER FOR ALL DEDICATED CIRCUITS AND AS REQUIRED BY CIRCUIT LOAD. RECEPTACLES SHALL BE FLAT FACED AND SWITCHES SHALL BE DECORA ROCKER STYLE, LEVITON #TDR15-W AND #TDR20-W RECEPTACLES, AND #5621-2 SWITCHES (OR EQUAL). COLOR LISTED IS WHITE, VERIFY WITH ARCHITECT BEFORE ORDERING. PROVIDE MATCHING SMOOTH NYLON COVER PLATES FOR ALL OUTLETS.
5. ALL NEW WIRING SHALL BE COPPER. #12 AWG MINIMUM FOR 20 AMP CIRCUITS 75'-0" OR LESS TO FIRST OUTLET #10 AWG MINIMUM OTHERWISE; TYPE THHN OR THWN INSULATION. PROVIDE A CONTINUOUS HARDWIRED GREEN INSULATED EQUIPMENT GROUND IN ALL FEEDERS AND BRANCH CIRCUITS. ALL WIRING SHALL BE RUN CONCEALED AND IN EMT CONDUIT OR TYPE HCF MC CABLE. ALL CIRCUIT HOMERUNS SHALL BE IN EMT CONDUIT. TYPE HCF MC CABLE SHALL BE PERMITTED FOR BRANCH CIRCUIT WIRING AS ALLOWED PER LOCAL CODES AND THE N.E.C. ONLY. ALL MC CABLE TO BE TYPE HCF. USE APPROVED TYPE COUPLINGS AND CONNECTORS. PROVIDE CONDUIT AND CABLE SUPPORTS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
6. ALL RECEPTACLES IN PATIENT CARE AREAS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC 517.20. EC SHALL PRICE WIRING AND DEVICES IN PATIENT CARE AREAS AS SUCH AND INSTALL AS REQUIRED PER ELECTRICAL INSPECTOR'S INTERPRETATION AND REQUIREMENTS.
7. NEUTRALS, RACEWAYS, AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE HARD WIRED GROUND CONNECTIONS TO ALL DEVICES. PROVIDE GROUNDING IN ALL PATIENT CARE AREAS IN ACCORDANCE WITH NEC ARTICLE 517-13 (#12 CU MINIMUM W/ GREEN INSULATION).
8. VERIFY ALL FIXTURE AND ELECTRICAL DEVICE LOCATIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-INS. VERIFY ALL MECHANICAL EQUIPMENT REQUIREMENTS WITH MECHANICAL DRAWINGS AND ACTUAL EQUIPMENT SUPPLIED.
9. ALL TELEPHONE AND DATA OUTLETS SHALL CONSIST OF DOUBLE GANG BOXES WITH SINGLE GANG PLASTER RINGS AND 3/4" CONDUIT CONTINUOUS TO ABOVE ACCESSIBLE LAY-IN CEILING LOCATION UNLESS OTHERWISE INDICATED. PROVIDE NYLON PULL STRING IN ALL CONDUITS. MOUNT OUTLET GROUPS (WITH RECEPTACLES) AS TIGHTLY TOGETHER AS POSSIBLE.
10. VERIFY ALL SPECIFIC DENTAL EQUIPMENT AND OUTLET LOCATION REQUIREMENTS WITH TENANT REPRESENTATIVE AND/OR MEDICAL EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. THIS SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE, AND POWER REQUIREMENTS. ALL CONNECTIONS FOR DENTAL EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS AND SUPPLIERS RECOMMENDATIONS.
11. PROVIDE DESIGN-BUILD FIRE ALARM INSTALLATION UNDER SUBCONTRACT WITH EXISTING FIRE ALARM MANUFACTURERS REPRESENTATIVES AND VENDOR. DEVICES AND EQUIPMENT TO BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM IN BUILDING. NOTIFICATION DEVICES SHALL BE WHITE, CONFIRM WITH LOCAL JURISDICTION PRIOR TO PURCHASE. PROVIDE NEW SMOKE DETECTORS, DUCT SMOKE DETECTORS, PULL STATIONS, AND NOTIFICATION DEVICES (HORN/STROBE AND STROBE ONLY) AS REQUIRED. CONNECT ALL NEW DEVICES TO EXISTING FIRE ALARM PANEL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AFTER THE INSTALLATION IS COMPLETE, THE FIRE ALARM SYSTEM SHALL BE TESTED IN THE PRESENCE OF FIRE DEPARTMENT REPRESENTATIVES AND THE ARCHITECT BEFORE OPERATIVE. PROVIDE SHOP DRAWINGS FOR APPROVAL, REVISE AND RE-SUBMIT AS REQUIRED FOR FIRE DEPARTMENT APPROVAL AND OBTAINING APPLICABLE PERMITS.
12. PROVIDE NEW TYPED PANEL CIRCUIT DIRECTORIES FOR NEW PANELS. INCLUDE APPROPRIATE DESCRIPTIONS OF ALL CIRCUITS.
13. PROVIDE 6 COPIES OF SUBMITTALS ON ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, ELECTRICAL DISTRIBUTION AND WIRING DEVICES FOR REVIEW BY THE ARCHITECT AND ENGINEER.
14. PER SECTION 210.4(B), PROVIDE A HANDLE TIE ON ALL TWO AND THREE CIRCUIT HOMERUNS THAT SHARE A COMMON NEUTRAL TO SIMULTANEOUSLY DISCONNECT THE UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.
15. PROVIDE LISTED TAMPER RESISTANT RECEPTACLES IN PATIENT ROOMS, BATHROOMS, PLAYROOMS AND ACTIVITY ROOMS IN DESIGNATED GENERAL CARE LOCATIONS.
16. CONTRACTOR TO INCLUDE PRICING FOR 10 EXTRA RECEPTACLES, JUNCTION BOXES, CONDUIT AND 10'-0" OF WIRING FOR EACH ADDED RECEPTACLE ADDED AT THE TIME OF THE BOX WALK. COORDINATE WITH OWNER AND ARCHITECT.
17. ELECTRICAL CONTRACTOR TO INCLUDE IN BASE BID AN ALLOWANCE TO REMOVE ALL EXISTING, UNUSED AND ABANDONED LINE VOLTAGE AND LOW VOLTAGE CABLES, WIRES, CONDUITS, JUNCTION BOXEX, PULL STRINGS ETC.



DEMOLITION ONE-LINE LINE DIAGRAM

NO SCALE
NOTE: ALL ITEMS ARE TO BE REMOVED UNLESS OTHERWISE NOTED



NEW ONE-LINE LINE DIAGRAM

NO SCALE
NOTE: ALL ITEMS ARE NEW UNLESS OTHERWISE NOTED

FEEDER SCHEDULE

1. 2 SETS OF (4-500 KCMIL XHHW AL) 3"C. (600A)
2. #2/0 CU GND TO BLDG STEEL, UFER & COLD WATER PIPE
3. #6 CU TO 5/8" X 8' CLAD STEEL GROUND ROD
4. 2 SETS OF (4-250 KCMIL XHHW AL & #1 AL GND) 2-1/2"C. (400A)
5. (4-250 KCMIL XHHW AL & #4 AL GND) 2-1/2"C. (200A)
6. (4 #3 THWN CU & #8 CU GND) 1-1/4"C. (100A)
7. SEE MECHANICAL SCHEDULE

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

No	Revision / Submissions	Date

ROSSI ENGINEERING INC.
David Day, P.E.
CONSULTING ENGINEER
165 Paramo Lane
Andreas, TX 77304
(713) 307-4470

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4595
Fax: 303-428-6472
Email: info@battistadesign.net
www.battistadesign.net

BATTISTA DESIGN GROUP

PROJECT MANAGER: JUSTIN HAYES
CELL: 303-720-5342
EMAIL: jhayes@rossiengineering.net

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

NOTES, SYMBOLS & ONE-LINE DIAGRAM

COLORADO LICENSED DAVID W. DAY 13396 PROFESSIONAL ENGINEER

Designed: JH	Project Number: 25-030
Drawn: JH	Scale: As Shown
Checked: VJR	Drawing Number: E1
Reviewed: DWD	
Date: 05/12/2025	1 of 5

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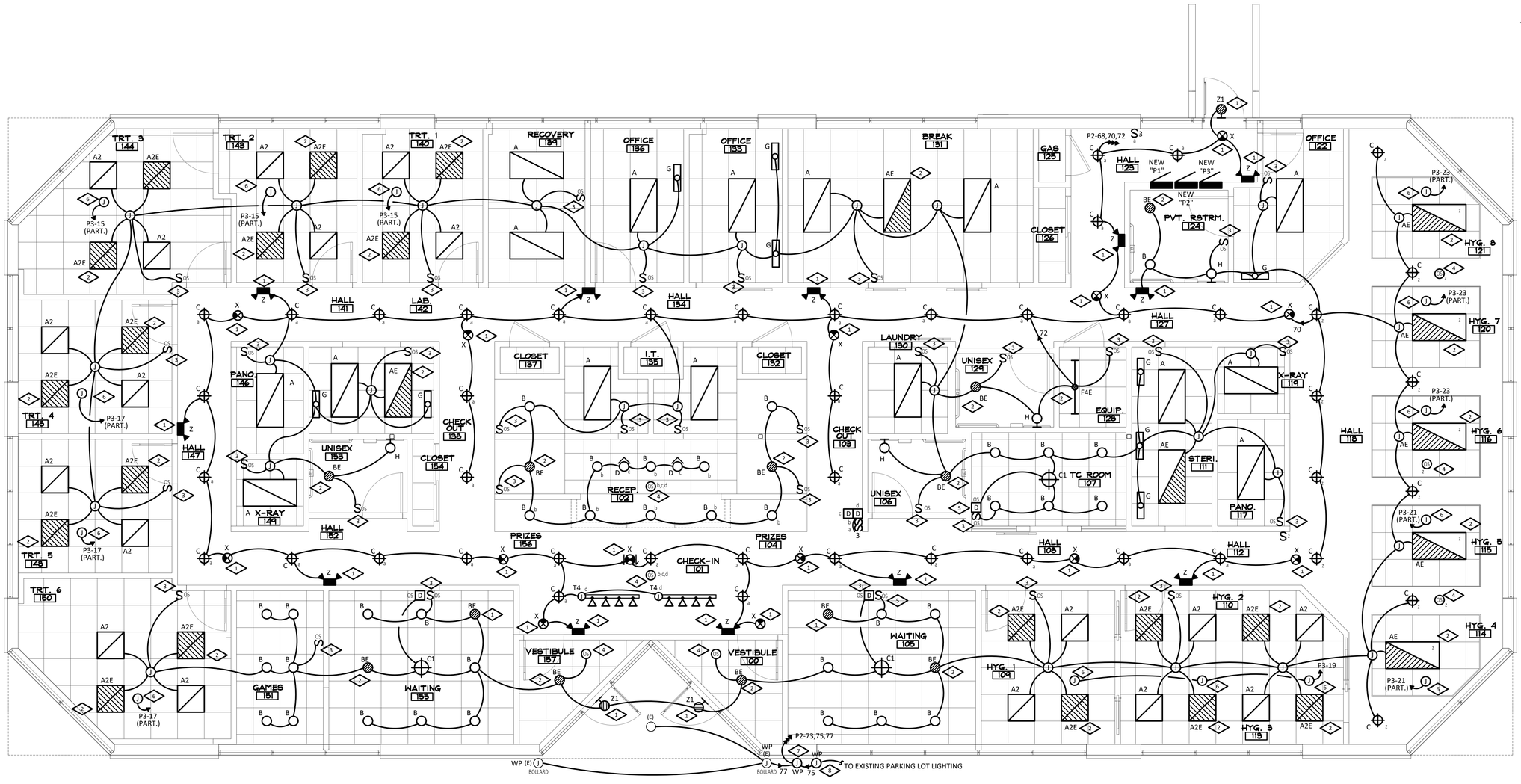

NORTH

1	LIGHTING PLAN
1/4" = 1'-0"	

DETAIL NOTES

1. CONNECT ALL EXIT LIGHTS, EMERGENCY BATTERY PACKS AND SHADED FIXTURES AHEAD OF SWITCHING FOR CONTINUOUS EGRESS/NIGHTLIGHT FUNCTIONS, (TYPICAL).
2. EMERGENCY BATTERY PACK TO OPERATE ONLY UNDER POWER OUTAGE. FIXTURE TO OPERATE NORMALLY UNDER NORMAL CONDITIONS, (NOT A NIGHT LIGHT). RUN SWITCHED AND UNSWITCHED POWER TO BATTERY PACK.
3. PROVIDE DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR FOR FIXTURES IN THIS ROOM. WATTSTOPPER CAT# DSW-301 OR EQUAL, (TYPICAL FOR THIS SYMBOL). SET TIME DELAY TO 15 MINUTES IN RESTROOMS.
4. PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF FIXTURES IN THIS AREA AS SHOWN; WATTSTOPPER DT-355 OR EQUAL. WIRE ANY ADDITIONAL SWITCHING SHOWN AHEAD OF CEILING MOUNTED OCCUPANCY SENSOR FOR MANUAL CONTROL.
5. PROVIDE DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR AND DIMMER FOR FIXTURES IN THIS ROOM. WATTSTOPPER DW-311-W OR EQUAL, (TYPICAL FOR THIS SYMBOL). SET TIME DELAY TO 15 MINUTES.
6. 120V, 20A CONNECTION FOR TASK LIGHT. COORDINATE EXACT LOCATION AND CONTROL REQUIREMENTS WITH MANUFACTURER.
7. 120V, 20A CONNECTION FOR EXTERIOR SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
8. INTERCEPT EXISTING 120V, 20A CIRCUIT FEEDING EXISTING PARKING LOT LIGHTING AND PROVIDE NEW CIRCUIT AS SHOWN. VERIFY CIRCUIT IS 120V, 20A AND NOTIFY ENGINEER OTHERWISE.

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

No	Revision / Submissions	Date

ROSSI ENGINEERING INC.
David Day, P.E.
CONSULTING ENGINEER
16 Pavonia Lane
Andover, TX 77574
(713) 927-4470
PROJECT MANAGER: JUSTIN HAYES
CELL: 303-720-5342
EMAIL: jhayes@rossiengineering.net

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-0472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

LIGHTING PLAN

	Designed: JH	Project Number: 25-030
	Drawn: JH	Scale: As Shown
	Checked: VJR	Drawing Number: E2
	Reviewed: DWD	
	Date: 05/12/2025	2 of 5

COLORADO LICENSED Justin W. Hayes 13395 PROFESSIONAL ENGINEER

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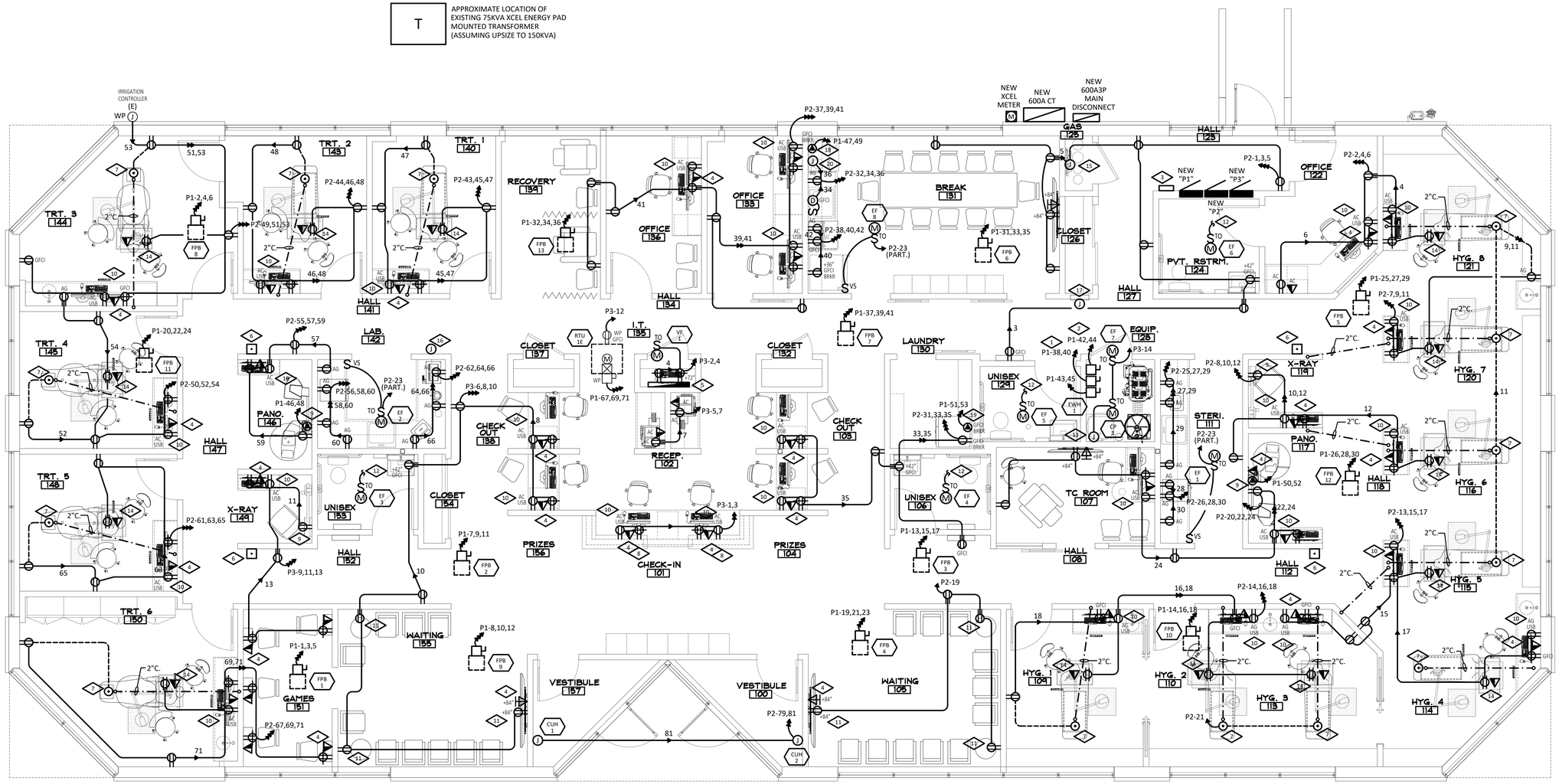
T

APPROXIMATE LOCATION OF EXISTING 75KVA XCEL ENERGY PAD MOUNTED TRANSFORMER (ASSUMING UPSIZE TO 150KVA)



NORTH

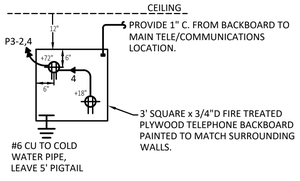
1	POWER PLAN
1/4" = 1'-0"	

DETAIL NOTES

1. 60A2P NON-FUSED DISCONNECT FOR VACUUM PUMP. PROVIDE (2 #10 CU THWN & 1 #10 CU GND.)1/2"C. TO DEVICE. VERIFY POWER REQUIREMENTS WITH DENTAL EQUIPMENT PRIOR TO ROUGH IN. PROVIDE BOOST TRANSFORMER IF REQUIRED. PROVIDE ONE ADDITIONAL JUNCTION BOX WITH 3/4"C TO ABOVE ACCESSIBLE CEILING IN DENTAL SUITE AT VACCUM FOR WIRING FROM CONTROL PANEL. REFER TO DETAIL NOTE #3 THIS SHEET FOR ADDITIONAL INFORMATION.
2. 60A2P NON-FUSED DISCONNECT FOR AIR COMPRESSOR. PROVIDE (2 #8 CU THWN & 1 #10 CU GND.)1/2"C. TO DEVICE. VERIFY POWER REQUIREMENTS WITH DENTAL EQUIPMENT PRIOR TO ROUGH IN. PROVIDE BOOST TRANSFORMER IF REQUIRED. PROVIDE ONE ADDITIONAL JUNCTION BOX WITH 3/4"C TO ABOVE ACCESSIBLE CEILING IN DENTAL SUITE AT COMPRESSOR FOR WIRING FROM CONTROL PANEL. REFER TO DETAIL NOTE #3 THIS SHEET FOR ADDITIONAL INFORMATION.
3. AIR, WATER AND VACUUM CONTROL PANEL. FURNISH AND INSTALL 4 #18 CU FROM EACH VACUUM, WATER SOLENOID AND AIR COMPRESSOR IN MECHANICAL ROOM TO CONTROL PANEL. CONTROL PANEL LOCATION AND FINAL TERMINATIONS BY EQUIPMENT SUPPLIER. COORDINATE EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. REFER TO 'AIR/WATER/VACUUM CONTROL PANEL' DETAIL THIS SHEET FOR ADDITIONAL INFORMATION. INSTALL AT +60" A.F.F.
4. FOR ALL TELEPHONE/DATA/TV OUTLETS SHOWN PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 3/4" CONDUIT STUBBED UP TO ABOVE LAY-IN CEILING. PROVIDE A NYLON PULL WIRE IN CONDUIT AND PLASTIC BUSHINGS AT CONDUIT TERMINATIONS. CABLE TO BE INSTALLED BY OTHERS, (TYPICAL).
5. SEE TELE BACKBOARD; SEE DETAIL THIS SHEET FOR FURTHER INFORMATION. VERIFY EXACT LOCATION WITH ARCHITECT.
6. JUNCTION BOX FOR X-RAY/PANOREX MOMENTARY CONTACT SWITCH SUPPLIED BY OTHERS WITH 3/4"C. TO SECOND JUNCTION BOX AT X-RAY EQUIPMENT. MOMENTARY CONTACT AND WIRE SUPPLIED BY DENTAL EQUIPMENT SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR. VERIFY EXACT LOCATION.
7. PROVIDE TOMBSTONE STYLE QUADPLEX RECEPTACLE AND 2"C. TO REAR DELIVARY. COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH DENTAL EQUIPMENT SUPPLIER PRIOR TO ROUGH- IN AND INSTALLATION.
8. DUPLEX/QUADPLEX RECEPTACLES AND TELEPHONE/DATA OUTLETS MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE 120V, 20 AMP DUPLEX RECEPTACLE FOR PANOREX (2 #12 THWN CU & #12 CU GND) 1/2"C. CONFIRM ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND NOTIFY ENGINEER IF PANOREX IS 208-VOLT, SINGLE-PHASE. PROVIDE 20A2P BREAKER FOR PANOREX IF IT IS 208-VOLT, SINGLE-PHASE. PROVIDE ONE ADDITIONAL JUNCTION BOX FOR WIRING TO MOMENTARY CONTACT IN DETAIL NOTE #5.
10. PROVIDE NEW 120-VOLT, 20-AMP TAMPER RESISTANT DUPLEX RECEPTACLE WITH (1) USB-A AND (1) USB-C PORTS. LEVITON CAT# TS833-W FOR ALL NON GFCI OUTLETS AND LEVITON CAT# GUAC2-W FOR ALL GFCI OUTLETS OR EQUALS, (TYPICAL). COORDINATE EXACT REQUIREMENT WITH TENANT REPRESENTATIVE.
11. ALL NEW RECEPTACLES IN THIS PROJECT ARE TAMPER RESISTANT; SEE GENERAL NOTE #4 ON SHEET E1.
12. CONNECT TO 120V LIGHTING CIRCUIT AND CONTROLS SERVING THIS ROOM.
13. PROVIDE 120V, 20A CONNECTION FOR WATER SOLENOID. VERIFY EXACT REQUIREMENTS AND LOCATION IN THE FIELD PRIOR TO ROUGH-IN.
14. PROVIDE 120V, 20A DUPLEX RECEPTACLE AND TELE/DATA MOUNTED IN CEILING; COORDINATE EXACT LOCATION WITH ARCHITECT.

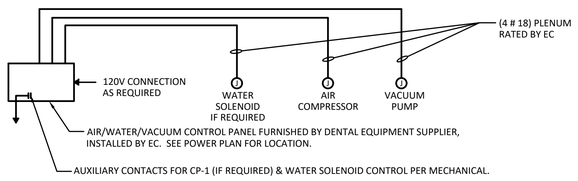
DETAIL NOTES

15. GAS MANIFOLD; PROVIDE 120V, 20A CONNECTION AND LOW VOLTAGE WIRING TO GAS ALARM. COORDINATE REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER.
16. GAS MANIFOLD ALARM; PROVIDE LOW VOLTAGE WIRING TO GAS MANIFOLD. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER.
17. GAS MANIFOLD SHUT OFF VALVE; PROVIDE LOW VOLTAGE WIRING TO GAS MANIFOLD. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER.
18. PROVIDE 250V, 50A RECEPTACLE FOR ELECTRIC RANGE. COORDINATE EXACT PLUG REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. (3 #8 THWN CU & #10 CU GND) 3/4"C.
19. PROVIDE 250V, 30A RECEPTACLE FOR DRYER. COORDINATE EXACT PLUG REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. (3 #10 THWN CU & #10 CU GND) 1/2"C.
20. PROVIDE 120V, 20A CONNECTION FOR OWNER PROVIDED EXHAUST HOOD. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.



TELE BACKBOARD DETAIL

NO SCALE



AIR/WATER AND VACUUM CONTROL PANEL

NO SCALE

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

No	Revision / Submissions	Date

ROSSI ENGINEERING INC.
David Day, P.E.
CONSULTING ENGINEER
165 Flaming Lane
Anaheim, CA 92814
(713) 307-4470
PROJECT MANAGER: JUSTIN HAYES
CELL: 303-720-5342
EMAIL: jhayes@rossiengineering.net

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4695
Fax: 303-428-6472
Email: info@battistadesign.net
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POWER PLAN

Designed: JH	Project Number: 25-030
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MECHANICAL EQUIPMENT SCHEDULE

	DESCRIPTION	CHARACTERISTICS				SUPPLY DATA					FIRE PROVISIONS					COMMENTS
		LOAD FORM	LOAD	VOLTS	PH	FEEDER	CIRCUIT PROTECTION			CONTROL	BY	DETECTION				
							BREAKER	DISC. SW.	FUSE			CFM	SMOKE	FURN.	INSTALL	
CP 1	HOT WATER CIRCULATION PUMP	HP	1/15	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			INTEGRAL	MC					
CUH-1 & CUH-2	ELECTRIC CABINET UNIT HEATER	KVA	1.50	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			T-STAT	MC					
EF-1 & EF-2	EXHAUST FAN	FLA	1.0	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			VS SWITCH	MC					
EF-2 TO EF-6	EXHAUST FAN	FLA	1.0	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			OCC SENSOR	MC & EC					
EF 7	EXHAUST FAN	FLA	2.5	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			T-STAT	MC					
EF 8	EXHAUST FAN	FLA	1.0	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			VS SWITCH	MC					
EWH 1	ELECTRIC WATER HEATER	KVA	4.50	208	1	(2 # 10 THWN CU & 1 # 10 CU GND)1/2" C.	30A2P	30A2P		INTEGRAL	MC					
FPB-1 TO FPB-8	FAN POWERED BOX WITH ELECTRIC HEAT	KVA	3.41	208/ 120	3	(4 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	15A3P	30A3P		T-STAT	MC					
FPB-12 & FPB-13	FAN POWERED BOX WITH ELECTRIC HEAT	KVA	10.92	208/ 120	3	(4 # 6 THWN CU & 1 # 10 CU GND)1" C.	60A3P	60A3P		T-STAT	MC					
FPB-9 TO FPB-11	FAN POWERED BOX WITH ELECTRIC HEAT	KVA	7.18	208/ 120	3	(4 # 8 THWN CU & 1 # 10 CU GND)3/4" C.	35A3P	60A3P		T-STAT	MC					
RTU 1E	EXISTING ROOFTOP UNIT	FLA	108.9	208	3	(3 # 1 THWN CU & 1 # 6 CU GND)1-1/4" C.	125A 3P	200A 3P	125 LPJ	T-STAT	MC	2000	X	MC	EC	PROVIDE FUSED DISCONNECT FOR 5KAIC SCCR
VF 1	IT ROOM VENTILATION FAN	FLA	1.0	120	1	(2 # 12 THWN CU & 1 # 12 CU GND)1/2" C.	20A1P			T-STAT	MC					

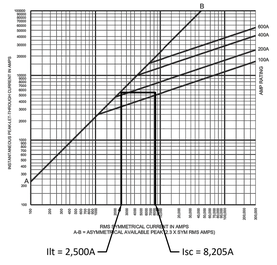
Light Fixture Schedule

Designation	Lamps		Fixture Characteristics	Fixture Mounting				Fixture Specification		
	# of lamps	Lamp Type	Description	Finish	Method	Ceiling Type	Recess Depth	Manufacturer	Catalog #	Voltage
A	1	50W (5,168 Lumens) LED 4000K	2'X4' Direct/Indirect LED Fixture	White	Recessed	Lay-in Grid	6"	Metalux	24RDI-50-UNV-L840-CD1-U	120
AE	1	50W (5,168 Lumens) LED 4000K	2'X4' Direct/Indirect LED Fixture with 90 Minutes of Emergency Battery Backup	White	Recessed	Lay-in Grid	6"	Metalux	24RDI-50-UNV-L840-CD1-U-EL14W	120
A2	1	30.1W (3,032 Lumens) LED 4000K	2'X2' Direct/Indirect LED Fixture (IC Rated)	White	Recessed	Lay-in Grid	6"	Metalux	22RDI-30-UNV-L840-CD1-U	120
A2E	1	30.1W (3,032 Lumens) LED 4000K	2'X2' Direct/Indirect LED Fixture with 90 Minutes of Emergency Battery Backup (IC Rated)	White	Recessed	Lay-in Grid	6"	Metalux	22RDI-30-UNV-L840-CD1-U-EL14W	120
B	1	16.2W (1,500 Lumens) LED 4000K	6" LED Downlight	White	Recessed	Lay-in Grid	5.7"	Portfolio Lighting	LD6C-15-90-40-D010-M-0-LI	120
BE	1	16.2W (1,500 Lumens) LED 4000K	6" LED Downlight With 90 Minutes of Battery Backup	White	Recessed	Lay-in Grid	5.7"	Portfolio Lighting	LD6C-15-90-40-D010-M-0-LI-IEM14	120
C	1	26W LED 4000K	Decorative LED Pendant	By Owner	Pendant Per Arch	Lay-In Grid	N/A	Delray	AL2387 M O S I W40 D	120
C1	1	15W LED 4000K	Decorative LED Pendant	By Owner	Pendant Per Arch	Lay-In Grid	N/A	By Owner	By Owner	120
D	1	9W MR16 LED 4000K Wide Angle Beam	Decorative Dimmable Monopoint With 6" Stem	Satin Nickel	Ceiling Per Arch	Varies	N/A	Visual Comfort	700-FJ-JON-6-S	120
F4E	1	35W (4,718 Lumens) LED 4000K	4' LED Strip Light	White	Surface	N/A	N/A	Metalux	4SNLED-LD5-465L-LC-UNV-L840-CD1-U-EL14W	120
G	1	11W LED 4000K	2' Under Cabinet	White	Under Cabinet	N/A	N/A	Halo	HU30-BSC-24-P	120
H	1	10W LED 4000K	Decorative Restroom Vanity	TBD	Wall	N/A	N/A	By Owner	By Owner	120
T4	1	14W (1,600 Lumens) LED 4000K Track Head	4' LED Track	Black	Surface	N/A	N/A	Halo	Track Head - L80916FL940MB With Compatible Halo Power Trac or Lazer Track; Provide All Accessories For A Complete Installation	120
X	--	LED	Universal Mount LED Exit Sign with 90 Minute Emegency Battery Backup	White/Green	Varies	Varies	N/A	Sure-Lites	LPX70GWH	120
Z	--	LED	Interior Egress Light with 90 Minute Emegency Battery Backup	White	Wall Per Arch	N/A	N/A	Sure-Lites	APEL	120
Z1	--	LED	Exterior Egress Light with 90 Minute Emegency Battery Backup	Black	Above Door	N/A	N/A	Sure-Lites	AEL2	120

Low-Peak™ LPJ Class J 600Vac/300Vdc, 70-600A, dual element, time-delay fuses

Technical Data 1007
Effective July 2023

Current-limitation curves:



Current-limiting effects:

Prospective S.C.C..	Let-through current (apparent RMS symmetrical vs. fuse rating) 100A	200A	400A	600A
1000	1000	1000	1000	1000
3000	2000	2000	3000	3000
5000	2000	3000	5000	5000
10,000	2000	4000	6000	8000
15,000	3000	4000	7000	9000
20,000	3000	4000	7000	10,000
25,000	3000	5000	8000	10,000
30,000	3000	5000	8000	11,000
35,000	4000	5000	9000	12,000
40,000	4000	6000	9000	12,000
50,000	4000	6000	10,000	13,000
60,000	4000	6000	11,000	14,000
80,000	5000	7000	12,000	15,000
100,000	5000	8000	12,000	17,000
150,000	6000	9000	14,000	19,000
200,000	6000	9000	16,000	21,000
250,000	7000	10,000	17,000	23,000
300,000	7000	11,000	18,000	24,000

LPJ FUSE LET THROUGH CHART

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ROSSI ENGINEERING INC.
David Day, P.E.
CONSULTING ENGINEER
106 Paramo Lane
Andrews, TX 77714
(713) 927-4470
PROJECT MANAGER: JUSTIN HAYES
CELL: 303-720-5342
EMAIL: jhayes@rossiengineering.net

3650 Wadsworth Boulevard
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Phone: 303-428-6595
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LIGHT FIXTURE & MECHANICAL SCHEDULES

COLORADO LICENSED DAVID W. DAY 13395 PROFESSIONAL ENGINEER

Designed: JH	Project Number: 25-030
Drawn: JH	Scale: As Shown
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COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 25-030 - Kids Mile High Pediatric
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Treatment Rooms (Healthcare Facility:Exam/Treatment)	1775	1.40	2485
2-Dental Office (Common Space Types:Office - Enclosed)	3345	0.74	2475
		Total Allowed Watts =	4960

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Treatment Rooms (Healthcare Facility: Exam/Treatment, 1775 sq.ft.)				
LED: A/AE: 2'x4' LED: Other:	1	5	50	250
LED: A2/2AE: 2'x2' LED: Other:	1	36	30	1084
LED: C: Decorative LED Pendant: Other:	1	4	26	104
Dental Office (Common Space Types: Office - Enclosed, 3345 sq.ft.)				
Track Lighting: T4: LED Track: Wattage based on total luminaires	0	0	112	112
LED: B/BE: 6" LED Downlight: Other:	1	47	16	761
LED: C: Decorative LED Pendant: Other:	1	41	26	1066
LED: C1: Decorative LED Pendant: Other:	1	3	15	45
LED: D: Decorative LED Monopoint: Other:	1	2	9	18
LED: F4E: 4' LED Strip: Other:	1	1	35	35
LED: G: 2' LED Undercabinet: Other:	1	9	11	99
LED: H: Restroom Vanity: Other:	1	4	10	40
LED: A/AE: 2'x4' LED: Other:	1	19	50	950
		Total Proposed Watts =		4564

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Justin Hayes - Project Manager (Name - Title) | JUSTIN HAYES (Signature) | 05-12-2025 (Date)

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Automatic-on controls are allowed in corridors, stairways, restrooms, primary building entrance areas and lobbies, and areas where manual-on controls could impact safety or security.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Spaces with patient care.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Spaces where health patient care is directly provided.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

ALL SUB-CONTRACTORS ARE REQUIRED TO REVIEW THE DENTAL EQUIPMENT SHEETS FOR ITEMS PERTAINING TO THEIR SCOPE OF WORK

No	Revision / Submissions	Date

ROSSI ENGINEERING INC.
David Day, P.E.
CONSULTING ENGINEER
NE Pkwy Lake Andrau, TX 77354
(713) 927-4470
PROJECT MANAGER: JUSTIN HAYES
CELL: 303-720-5342
EMAIL: jhayes@rossiengineering.net

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4695
Fax: 303-428-9472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

Kids Mile High Pediatric Dentistry Tenant Remodel Project

16 Inverness Place East
Building E
Englewood, CO 80112

COMCHECK

COLORADO LICENSED David Hayes 13385 PROFESSIONAL ENGINEER

Designed: JH	Project Number: 25-030
Drawn: JH	Scale: As Shown
Checked: VJR	Drawing Number: E5
Reviewed: DWD	
Date: 05/12/2025	5 of 5

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