





Emergency Services Department

www.harnett.org

Reviewed for Fire Code Compliance

Harnett LOUNTY Leslie Jackson

08/03/2023 10:30:15 AM

Application for Plan Review

Application #

Date Received:	Received By:	
Name of Project:	Southern Smiles Pediatric Dent	tistry
Physical Address of Project:	2305 NC HWY 24-87	
	Cameron	, NC28326
Plans Submitted By:	Luke Coyle	
Project Phone:	(919)- 791 4631	
Contact Person/Address:	Luke Coyle	
	8204 Creedmoor Rd, Ste. 100	
	Raleigh, NC 27613	
Contact Email:	luke@hmddevelopment.com	
Contact Phone:	(815)- 641 - 4154	(919)-791 - 4631
Contractor's Name/Info:	HMD Development, Inc.	
	8204 Creedmoor Rd, Ste. 100	
	Raleigh, NC 27613	
Contractor's Phone:	(919)- 791 - 4631	

- Plans that are submitted will be reviewed as quickly as possible with an <u>average time of review</u> between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the website http://hteweb.harnett.org/Click2GovBP/Index.jsp or by calling the Harnett County Central Permitting Office (910-893-7525, Option #2), or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be picked up from the Central Permitting Office and all fees paid before any
 required inspections can be conducted.

DRAWING INDEX							
SHEET	TITLE						
COVER	APPENDIX B AND DRAWING INDEX						
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A0.1	ACCESSIBILITY DETAILS						
A1.0	KEY PLAN, FLOOR PLAN, ENLARGED TOILET PLAN						
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A2.0	DETAILS AND CABINETS						
ID1.0	FINISHES AND FLOORING LAYOUT						
ID1.1	PLUMBING AND LIGHTING FIXTURES						
ID2.0	CUSTOM FEATURE						
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P1	GENERAL PLUMBING NOTES AND SCHEDULES						
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DENTAL	DRAWING - FOR INFORMATION ONLY						
DA001	DENTAL GENERAL NOTES						
DA111	DENTAL LVL 1 FLOOR PLAN						
DA113	DENTAL LVL 1 BACKING PLAN						
DB110	DENTAL LVL 1 UTILITIES IN FLOOR						
DE110	DENTAL LVL 1 ELECTRICAL AND LOW VOLTAGE						
DP110	DENTAL LVL 1 PLUMBING						
DP111	DENTAL LVL 1 MEDICAL GAS PLAN						
DX110	DENTAL DETAILS						
DX111	DENTAL MEDICAL GAS DETAILS						

2018 APPENDIX B -	BUILDING	CODE	SUM		RY F	FOR A	ALL C	COMM	MERCIAL	PROJEC	CTS			
NAME OF PROJECT: SOUTHERN SMILES	FIRE PROTECTION REQUIREM	ENTS							PLUMBING REQUIR	EMENTS				
BUILDING ADDRESS: 2305 NC HIGHWAY 24-87 ZIP CODE: 28326 PROPOSED USE: DENTIST OFFICE	BUILDING ELEMENT	FIRE		ATING	DETAIL#	DESIGN#	SHEET#	SHEET#		WATER CLOSET		LAVATORIES	SHOWERS & TUBS	
OWNER OR AUTHORIZED AGENT: LUKE COYLE PHONE: (919) 791-4631 EMAIL: LUKE@HMDDEVELOPMENT.COM		SEPARATION DISTANCE		PROVIDED W/ <u>NA *</u>	AND SHEET#	FOR RATED ASSEMBLY	FOR RATED PENETRATION	FOR RATED JOINTS	USE	MALE FEMALE	URINALS	MALE FEMALE		FOUNTAINS REGULAR ACCESS
OWNED BY: CITY/COUNTY X PRIVATE STATE CODE ENFORCEMENT JURISDICTION: X CITY CAMERON COUNTY STATE	STRUCTURAL FRAME, INCLUDING	(FEET)	R	REDUCTION)					SPACE EXISTING	0 0	0	0 0	0	0 0
CONTACT:	COLUMNS, GIRDERS, TRUSSES BEARING WALLS	NA	0	0	NA	NA	NA	NA	NEW REQUIRED	1 1	0	1 1	0	1 1
DESIGNER COMPANY NAME LICENSE# TELEPHONE# EMAIL	EXTERIOR													
ARCHITECTURAL REDFOOT STUDIO RICHARD REDFOOT 9231 (919) 931-7134 RICHARD@REDFOOTSTUDIO.COM NA N	NORTH EAST	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	SPECIAL APPROVALS NA	S: (LOCAL JURISDICTIO	N, DEPARTMENT C	OF INSURANCE, OSC	;, DPI, DHHS, ETC., DES	SCRIBE BELOW)
ELECTRICAL KILIAN ENGINEERING JACOB HAMILTON 48012 (252) 438-8778 JHAMILTON@KILIANENGINEERING.COM FIRE ALARM NA NA NA RELIANTENDO (1888) 1888 1888 1889 1889 1889 1889 1889	WEST	NA	NA	NA	NA	NA	NA	NA						
PLUMBING KILIAN ENGINEERING JACOB HAMILTON 48012 (252) 438-8778 JHAMILTON@KILIANENGINEERING.COM MECHANICAL KILIAN ENGINEERING JACOB HAMILTON 48012 (252) 438-8778 JHAMILTON@KILIANENGINEERING.COM	SOUTH INTERIOR	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA						
SPRINKLER-STANDPIPE NA	NON-BEARING WALLS AND PARTITIONS								ENERGY REQUIREMENTS					
RETAINING WALLS > 5' HIGH NA	EXTERIOR WALLS								THE FOLLOWING DATA	A SHALL BE CONSIDERED N				
2018 NC BUILDING CODE : NEW BUILDING ADDITION RENOVATION [X] 1ST TIME INTERIOR COMPLETION	NORTH EAST	30' + 30' +	0	NA NA	NA NA	NA NA	NA NA	NA NA		EACH DESIGNER SHALL FU NCE METHOD, STATE THE <i>I</i>				
SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL	WEST	30' +	0	NA	NA	NA	NA	NA		OST FOR THE PROPOSED				
PROCEDURES AND REQUIREMENTS PHASED CONSTRUCTION - SHELL/CORE- CONTACT THE LOCAL INSPECTION JURISDICTION FOR	SOUTH INTERIOR WALLS AND PARTITIONS	30' + NA	0 0	NA 0	NA NA	NA NA	NA NA	NA NA		ENVELOPE COMPLIES WI	_	_	(THE REMAINDER OF IS NOT APPLICABLE)	THIS SECTION
POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS	FLOOR CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS	NA		0	NA	NA	NA	NA	EXEMPT BUILDING:	X NO	YES (PROVIDE CO	DDE OR STATUTORY R	(EFERENCE):	NA NA
2018 NC EXISTING BUILDING CODE : PRESCRIPTIVE REPAIR CHAPTER 14 LEVEL III LEVEL III	FLOOR CEILING ASSEMBLY	NA	NA NA	NA NA	NA	NA	NA	NA	CLIMATE ZONE: METHOD OF COMPLI	☐ 3A 💢 4A	5A			
HISTORIC PROPERTY CHANGE OF USE	COLUMNS SUPPORTING FLOORS ROOF CONSTRUCTION, INCLUDING	NA	0	NA	NA	NA	NA	NA	ENERGY C		RFORMANCE	X PRESCRIPTIVE		
CONSTRUCTED (date): 2022 CURRENT OCCUPANCY(S) (Ch. 3): NA RENOVATED (date): NA PROPOSED OCCUPANCY(S) (Ch. 3): B	SUPPORTING BEAMS AND JOISTS	NA	0	0	NA	NA	NA	NA	ASHRAE 90).1 PE	RFORMANCE	PRESCRIPTIVE		
· · · · · · · · · · · · · · · · · · ·	ROOF CEILING ASSEMBLY COLUMNS SUPPORTING ROOF	NA NA	0	0	NA NA	NA NA	NA NA	NA NA	,	SPECIFY SOURCE HERE	, 			
RISK CATEGORY (TABLE 1604.5): CURRENT: I II III IV PROPOSED: I X II III IV	SHAFT ENCLOSURES - EXIT	NA	NA NA	NA NA	NA	NA	NA	NA		E (PRESCRIPTIVE METHO	,			
BUILDING DATA:	SHAFT ENCLOSURES - STAIR CORRIDOR SEPARATION	NA NA	NA 0	NA 0	NA NA	NA NA	NA NA	NA NA	DESCIPTI	G ASSEMBLY (each assem ON OF ASSEMBLY:	NA			
CONSTRUCTION TYPE: I-A II-A III-A IV V-A	OCCUPANCY / FIRE BARRIER SEPARATION PARTY/FIRE WALL SEPARATION	N NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	U-VALUE R-VALUE	OF TOTAL ASSEMBLY: OF INSULATION:				
☐ I-B X II-B ☐ III-B ☐ V-B SPRINKLERS: X NO ☐ PARTIAL ☐ YES ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D	SMOKE BARRIER SEPARATION	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	SKYLIGH'	TS IN EACH ASSEMBLY:				
STANDPIPES: X NO YES CLASS I I II WET DRY	SMOKE PARTITION TENANT / DWELLING UNIT /	NA 	NA .	NA .	NA	NA	NA	NA 	U-V TO	'ALUE OF SKYLIGHT: TAL SQ FT OF SKYLIGHTS	S IN EACH ASSEMBL	LY:		
FIRE DISTRICT: X NO YES (Primary) FLOOD HAZARD AREA: X NO YES SPECIAL INSPECTIONS REQUIRED: X NO YES (contact the local inspection jurisdiction for additional	SLEEPING UNIT SEPARATION	NA 	1	1	1/A0.0	UL U419	WL 1001	NA 		ALLS (each assembly):				
procedures and requirements.)	INCIDENTAL USE SEPARATION MEDICAL GAS CLOSET	NA NA	NA 1	NA 1	NA 1/A0.0	NA UL U419	NA WL 1001	NA NA	DESCIPTI	ON OF ASSEMBLY:	NA			
GROSS BUILDING AREA:	* INDICATES SECTION NUMBER PE	RMITTING REDU	ICTION.	'			1	,	R-VALUE	OF TOTAL ASSEMBLY: OF INSULATION:				
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL 3RD FLOOR NA NA NA	PERCENTAGE OF WALL OPEN						1			S (WINDOWS OR DOORS ALUE OF ASSEMBLY:	WITH GLAZING)			
2ND FLOOR NA NA NA MEZZANINE NA NA NA	FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINE	DEG PROT	GREE OF OPEN ECTION (TABL	IINGS .E 705.8)	ALLOWAB (%		ACTUAL SHOW		SO	LAR HEAT GAIN COEFFIC				
1ST FLOOR 17,178 3,130 (AREA OF WORK) 17,178 (3,130) BASEMENT NA NA NA	NA - EXISTING BUILDING								PRI DO	OJECTION FACTOR: OR R-VALUES:				
TOTAL 17,178 3,130 (AREA OF WORK) 17,178 (3,130)									WALLS BELOV	V GRADE (each assembly)	:			
ALLOWABLE AREA	LIFE SAFETY SYSTEM REQUIR									ON OF ASSEMBLY: OF TOTAL ASSEMBLY:	NA			
OCCUPANCY: ASSEMBLY A-1 A-2 A-3 A-4 A-5	EMERGENCY LIGHTING: EXIT SIGNS:		X YES							OF INSULATION:				
BUSINESS X EDUCATIONAL	FIRE ALARM: SMOKE DETECTION SYSTEMS:	X NO	YES	☐ PARTIAL						R UNCONDITIONED SPAC	E (each assembly):			
FACTORY/INDUSTRIAL F-1 MODERATE F-2 LOW HAZARDOUS H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM	CARBON MONOXIDE DETECTION:		YES							ON OF ASSEMBLY: OF TOTAL ASSEMBLY:	NA			
INSTITUTIONAL I-1 CONDITION 1 2	LIFE SAFETY PLAN REQUIREM								R-VALUE	OF INSULATION:				
1-3 CONDITION 1 2 3 4 5	LIFE SAFETY PLAN SHEET #:			7\					FLOORS SLAE		NΔ			
☐ I-4 MERCANTILE ☐	X FIRE AND SMOKE RATI ASSUMED AND REAL P				SITE PLAN)				U-VALUE	ON OF ASSEMBLY:OF TOTAL ASSEMBLY:				
RESIDENTIAL R-1 R-2 R-3 R-4	EXTERIOR WALL OPEN OCCUPANCY USE FOR								R-VALUE HORIZON	OF INSULATION: TAL/VERTICAL REQUIRE	MENT:			
STORAGE S-1 MODERATE S-2 LOW HIGH PILED PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE	X OCCUPANT LOADS FO	R EACH AREA		3 0000171111 E	ON ID ON ILOO	JENNON (INDE	LL 1001.1.2)		SLAB HEA	ATED:	WEITH:			
UTILITY AND MISCELLANEOUS	X EXIT ACCESS TRAVEL X COMMON PATH OF TR	, ,		6.2.1 & 1006.3.2	(1))							055.450		
ACCESSORY OCCUPANCY CLASSIFICATIONS: NA	DEAD END LENGTHS (* X CLEAR EXIT WIDTHS F		OOR						MECHANICAL SUMMARY	NO 05D/405 0/075NO		SEE MEC	HANICAL L	PRAWINGS
INCIDENTAL USES (TABLE 509): NA SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): NA	X MAXIMUM CALCULATED X ACTUAL OCCUPANT LC	OCCUPANT LOAD	CAPACITY EACI	H EXIT DOOR CA	AN ACCOMM	IODATE BASED	ON EGRESS WIDT	TH (1005.3)	THERMAL ZONE	MS, SERVICE SYSTEMS A	AND EQUIPMENT			
SPECIAL PROVISIONS: (CHAPTER 5 - LIST CODE SECTIONS): NA	A SEPARATE SCHEMA	TIC PLAN INDICA	TING WHERE F	FIRE RATED FLO	OOR/CEILIN	IG AND/OR RO	OOF STRUCTURE	IS PROVIDED	WINTER DRY BU SUMMER DRY B					
MIXED OCCUPANCY: X NO YES SEPARATION: NA HR. EXCEPTION NA NA NON-SEPARATED USE (508.3) - THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY	FOR PURPOSES OF OC LOCATION OF DOORS	WITH PANIC HAR	DWARE (1010.						INTERIOR DESIGN CO	ONDITIONS				
APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE	LOCATION OF DOORS				OUNT OF DI	ELAY (1010.1.9	9.7)		WINTER DRY BU SUMMER DRY BI	JLB				
OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.	LOCATION OF EMERGE	NCY ESCAPE WI	INDOWS (1030)						RELATIVE HUMIC					
SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH	THE SQUARE FOOTAG	E OF EACH SMOR	KE COMPARTM				` '		BUILDING HEATING L BUILDING COOLING I	-				
SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.	NOTE ANY CODE EXCE									IG CONDITIONING SYSTE	·M			
$\frac{\textit{ACTUAL AREA OF OCCUPANCY A}}{\textit{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\textit{ACTUAL AREA OF OCCUPANCY B}}{\textit{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$	ACCESSIBLE DWELLING UNITS	<u> </u>	<u> </u>				LLINĢ U		DESCRIPTIO					
ALLOVIABLE AREA OF OCCUPANOTA ALLOVIABLE AREA OF OCCUPANOY B	TOTAL ACCESSIBLE ACCESSIBLE UNITS UNITS UNITS UNITS	S I UN	IITS	TYPE 'A' UNITS	TYPE 'E	B' TYI	PE 'B' INITS ACCE	TOTAL ESSIBLE UNITS	HEATING EF COOLING EF	FICIENCY				
+ ≤ 1.00	REQUIRED REQUI	KED REQU	JIRED P	PROVIDED	REQUIRE	ED PRO	ONIDED E	PROVIDED	BOILER	ORY OF UNIT				
STORY NO. DESCRIPTION (A) (B) (C) (E)										ORY. IF OVERSIZED, STA	TE REASON			
AND USE BLDG. AREA TABLE 506.2 AREA FOR ALLOWABLE PER STORY AREA FRONTAGE AREA PER	ACCESSIBLE PARKING	NA -	- EXIST	TING B	UILD	ING AN	ND PAR	KING	SIZE CATEG	ORY. IF OVERSIZED, STA	ATE REASON			
(ACTUAL) INCREASE ^{1,5} STORY OR UNLIMITED ^{2,3}	LOT OR TOTAL # OF PARK	(ING SPACES				PACES PROVI		TOTAL# ACCESSIBLE	LIST EQUIPMEN	T EFFICIENCIES				
1 B 17,178 69,000 NOT USED 69,000	AREA REQUIRED	PROVIDED	REGULAR ACCESS		VA 32" ACCESS	AN SPACES WI	ITH ACCESS AISLE	PROVIDED				055 51 5	OTDION 5	
	USE 1								ELECTRICAL SUMMARY ELECTRICAL SYSTEM	A AND EOLIIDMENT		SEE ELE	CTRICAL	PRAWINGS
	- USE 2 - USE 3									ANCE: ENERGY CODE	PRESCR	RIPTIVE P	ERFORMANCE	
TRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS: A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (F)	TOTAL									ASHRAE 90.1	PRESCR	RIPTIVE P	ERFORMANCE	
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (F) B. TOTAL BUILDING PERIMETER = (P) C. RATIO (F/P) = (F/P) D. W = MINIMUM WIDTH OF PUBLIC WAY = (W)	STRUCTURAL DESIGN			N	IΛ □	VICTIN	NG BUIL	DING	LIGHTING SCHEDULE	E (each fixture type) UIRED IN FIXTURE				
E. PERCENT OF FRONTAGE INCREASE $I_f = 100 [F/P - 0.25] \times W/30 = $ (%)	DESIGN LOADS			IV	i/\ - L	MIO I III	NO DOIL	טווט.	NUMBER OF LAN BALLAST TYPE (MPS IN FIXTURE				
² UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507 ³ MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x D (MAXIMUM 3 STORIES) (506.2)	IMPORTANCE FACTORS:	SNOW (Is) SEISMIC (Ie)								LASTS IN FIXTURE				
⁴ THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH 412.3.1.	LIVE LOADS:	ROOF			psf				TOTAL INTERIOR TOTAL EXTERIO	R WATTAGE SP <mark>ECIFIED V</mark> R WATTAGE SPECIFIED \	S. ALLOWED (whole /S. ALLOWED	building or space by space	ace)	
⁵ FRONTAGE INCREASE BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.		MEZZANINE			psf				ADDITIONAL EFFICIE	NCY PACKAGE OPTIONS		0.4)		
ALLOWABLE HEIGHT		FLOOR			psf				*	018 NCECC; NOT REQUIR MORE EFFICIENT MECHAN		J.1)		
BUILDING HEIGHT IN FEET (TABLE 504.3) NA - EXISTING TO REMAIN SHOWN ON PLANS CODE REFERENCE	GROUND SNOW LOAD:	DAGIONA	ODEED.		psf	100E 3/				REDUCED LIGHTING POW ENHANCED DIGITAL LIGH				
BUILDING HEIGHT IN STORIES (TABLE 504.4) NA - EXISTING TO REMAIN	- WIND LOAD:	BASIC WIND EXPOSURE (-		mpn (A	ASCE-7)			_	:NHANCED DIGITAL LIGH)N-SITE RENEWABLE ENE				
	SEISMIC DESIGN CATEGORY				D				C406.6 [DEDICATED OUTDOOR AII REDUCED ENERGY USE IN	R SYSTEM	HEATING		
	PROVIDE THE FOLLOWING SEISMI			_					C400./ F	LDOOLD ENERGY USE I	OLIVIOE WATER I	HEATING		
	RISK CATEGORY (Table 160 SPECTRAL RESPONSE AC	,		□ II %a	_	_		_						
	SITE CLASSIFICATION (ASC			^{%g}	. —			☐ F						
	DATA SOU	RCE:	FIELD TES		_	_	HISTORICAL DA	ATA						
	BASIC STRUCTURAL SYST BEARING WAL			CIAL MOMENT F	RAME									
	☐ BUILDING FRA	ME 🔲	DUAL W/ INTER	RMEDIATE R/C		L STEEL								
	MOMENT FRAI	_	INVERTED PEN		ATERAL EO		DANVMIC							
	ANALYSIS PROCEDURE	SIMPLIF	IED III	EQUIVALENT :	UIFING	NOE .	D I INVINIT.	_						

LATERAL DESIGN CONTROL: EARTHQUAKE WIND WIND

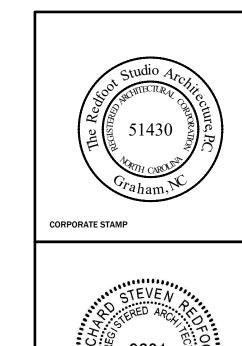
FIELD TEST (PROVIDE COPY OF TEST REPORT)

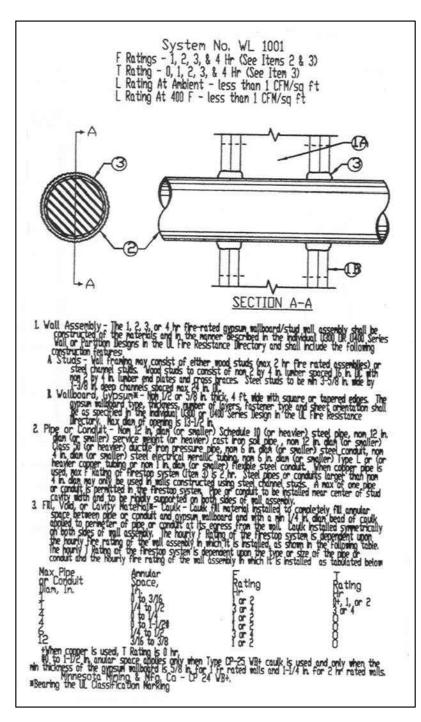
PRESUMPTIVE BEARING CAPACITY
PILE SIZE, TYPE, AND CAPACITY

SOIL BEARING CAPACITY:

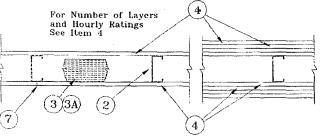








Design No. U419 Non Bearing Wall Ratings—1, 2, 3 or 4 Hr (See Items 3 & 4)



floor and Ceiling Runners—(Not shown)—Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with

stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

2. Steel Studs—Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

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

Categories for names of Classified companies.

3A. 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.

4. Wallboard, Gypsum*—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 edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. 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 1 hr, 2 hr, 3 hr and 4 hr

ratings are as follows: Wallboard Protection on Each Side of Wall No. Of Layers And Thickness Of Panels of Insulation
(Item 3B)
Optional
1-1/2 in.
Optional
3 in.
Optional
Optional
Optional
Optional
Optional
Optional
2 in. 1 layer, 5/8 in. thick 1 layer, 1/2 in. thick 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 1 layer, 3/4 in. thick 3 layers, 1/2 in. thick 2 layers, 3/4 in. thick 4 layers, 1/2 in. thick 2 layers, 3/4 in. thick

Canadian Gypsum Co.—1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3

United States Gypsum Co.—1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3

Yeso Panamericano SA de CV—1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3.

in. thick ULTRACODE or Type IP-X3.

5. Fasteners—(Not shown)—Type S or S-12 self-drilling, self-tapping steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). 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. 0C when panels are applied horizontally, or 12 in. 0C when panels are applied 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. 0C. Second layer-1-5/8 in. long for 1/2 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. 0C with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in. thick panels, spaced 24 in. 0C. Second layer- 1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. 0C. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in. thick panels, spaced 24 in. 0C. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in. thick panels, spaced 24 in. 0C. Second layer- 2-5/8 in. long for 1/2 in. thick panels, spaced 24 in. 0C. Third layer- 2-1/4 in. long for 1/2 in. thick panels, spaced 24 in. 0C. Screws offset min 6 in. from layer below.

6. 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. 0C. Flange

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

panhead steel screws.

7. 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 panels.

8. Siding, Brick or Stucco—(Optional, not shown) —Aluminum, vinyl or the ciding brick or Stucco—(Toptional) most beginning to the compound of the compound of the ciding brick property or street most in the compound of the compound of the ciding brick property or street most in the compound of the ciding brick property or street most in the compound of the ciding brick property or street most in the compound of the ciding brick property or street most in the compound of the ciding brick property or street most in the compound of the ciding brick property or street most in the ciding brick pro

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. . 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

*Bearing the UL Classification Marking

DOOR AND FRAME SCHEDULE

		DO	OOR					
		SIZE			FRAME	HARD	W ARE	
DOOR NO.	WD	HGT	THK	MATL	MATL	SET	KEYSIDE RM NO	REMARK
100A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L		1
100B	2'-0"	5'-0"	1 3/4"	WOOD	HM	P.L.		2, 4
101A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		
101B	2'-0" (PAIR)	7'-0"	1 3/4"	WOOD	HM	MFR'S STANDARD		5
102A	3'-0"	7'-0"	1 3/4"	WOOD	HM	MFR'S STANDARD		6
103A	2'-6"	7'-0"	1 3/4"	WOOD	HM	C.L., D.S.	106	
104A	3'-0"	7'-0"	1 3/4"	WOOD	HM	PR.L., D.S., C.H.		
105A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		
108A	3'-0"	7'-0"	1 3/4"	WOOD	HM	MFR'S STANDARD		7
110A	3'-0"	7'-0"	1 3/4"	WOOD	HM	PR.L., D.S., C.H.		
111A	3'-0"	7'-0"	1 3/4"	WOOD	HM	MFR'S STANDARD		1, 6, 11
112A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., O.C.		3, 10
113A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S.		10
114A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S.		10, 12
115A	3'-0"	7'-0"	1 3/4"	WOOD	HM	MFR'S STANDARD		1, 6, 13
115B	3'-0"	7'-0"	1 3/4"	WOOD	HM	MFR'S STANDARD		1, 6, 13
116A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		10
117A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., O.C.		3, 10
118A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		10
119A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		10
120A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		10
121A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		10
122A	3'-0"	7'-0"	1 3/4"	WOOD	HM	P.L., D.S., C.H.		7
123A	3'-0"	7'-0"	1 3/4"	WOOD	HM	C.L., O.C.	124	8
124A	EXISTING	G TO REMAIN	1					14
125A	3'-0"	7'-0"	1 3/4"	WOOD	HM	INTERLOCK		9

GENERAL DOOR SCHEDULE NOTES

. DOORS WITH NO NUMBER ARE EXISTING TO REMAIN. . NEW DOORS TO BE PRE-FINISHED SOLID CORE WOOD COMMERCIAL DOORS.

. PROVIDE NEW COMMERICAL GRADE ACCESSIBLE DOOR HARDWARE.

HARDWARE LEGEND

P.L. PASSAGE LATCHSET PR.L. PRIVACY LOCKSET C.L. CYLINDER LOCKSET M.L. MORTISE LOCKSET	CR.L. D.B. ALT W.S.	CLASSROOM LOCKSET DEADBOLT ALUMINUM THRESHOLD WOOD THRESHOLD	O.C. D.H. W.S. D.S.	OVERHEAD CLOSER 1 1/2 HINGES WEATHER STRIPPING DOOR STOP	С.Н.	COAT HOOK
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REMARKS

FULL GLASS DOOR. GLAZING TO BE TEMPERED. HALF GLASS DOOR. GLAZING TO BE TEMPERED.

VIEW PANEL IN DOOR. GLAZING TO BE TEMPERED.

. CHILDREN'S DOOR. BARN DOOR ASSEMBLY AND ASSOCIATED HARDWARE

BARN DOOR ASSEMBLY. IN FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FOR BOTH SIDES AND WIDTH OF DOOR OPENING SHALL BE A MINIMUM OF 32" CLEAR.

POCKET DOOR ASSEMBLY. IN FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FOR BOTH SIDES AND WIDTH OF DOOR OPENING SHALL BE A MINIMUM OF 32" CLEAR. 1-HOUR FIRE-RATED DOOR AND FRAME.

9. HALF GLASS DOOR. GLAZING TO BE 1/2" TEMPERED. PROVIDE INTERLOCK SWITCH ON DOOR SUCH THAT IMAGING EQUIPMENT CANNOT OPERATE WHEN DOOR IN IN OPEN POSITION.

10. PROVIDE SOUND KIT ON DOOR AND FRAME ASSEMBLY

PROVIDE FULL HEIGHT 3'-0" SIDELIGHT. GLAZING TO BE TEMPERED.

2. PROVIDE WALL HUNG ACOUSTIC BLANKET OVER DOOR, GRAINGER 4' X 8' ACOUSTIC WALL BLANKET, ITEM #5T498 OR APPROVED EQUAL.

13. PROVIDE PARTIAL VINYL FROSTING OVER GLAZING. COORDINATE DESIGN/PATTERN WITH OWNER AND INTERIOR DESIGNER.

14. EXISTING DOOR AND FRAME TO REMAIN. REVERSE HAND OF EXISTING DOOR.

. GENERAL NOTES APPLY TO ALL SHEETS. 2. THE DRAWINGS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO ORDERING, PURCHASING AND INSTALLING MATERIALS AND SYSTEMS. ALL DISCREPANCIES, INTERFERENCES, AND OMISSIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.

GENERAL NOTES

3. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS DURING CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.

4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES. 5. CONTRACTOR TO VISIT SITE PRIOR TO SUBMITTAL OF BID. CONTRACTOR TO ESTABLISH SCOPE OF WORK FROM CONSTRUCTION DOCUMENTS AND ACTUAL

SITE VISIT. ANY OMMISSIONS, DISCREPANCIES OR CLARIFICATIONS TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. 5. CONTRACTOR TO ITEMIZE ALL COSTS AND SCOPE OF WORK RELATED TO ANY CHANGE ORDER. THIS INFORMATION MUST BE PRESENTED TO THE OWNER

AND ARCHITECT FOR APPROVAL PRIOR TO ANY WORK BEING EXECUTED.

. NOTED DIMENSIONS TAKE PRECEDENCE OVER OVER SCALED DIMENSIONS, DO NOT SCALE DIMENSIONS.

8. DIMENSIONS ARE TO FACE OF FRAMING. 9. ALL COLORS AND MATERIALS SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO ORDERING MATERIALS.

10. PROVIDE BLOCKING AS REQUIRED FOR FOR INSTALLATION AND SUPPORT OF GRAB BARS, TOILET ACCESSORIES, CABINETS, TELEVISIONS, EQUIPMENT, ETC.. BLOCKING FOR CABINETRY AND WALL MOUNTED EQUIPMENT TO BE CONTINUOUS FROM FLOOR TO 8'-0" AFF. 1. COORDINATE INSTALLATION OF ALL EQUIPMENT AND APPLIANCES, INCLUDING BOTH CONTRACTOR AND OWNER SUPPLIED ITEMS, WITH MANUFACTURER'S

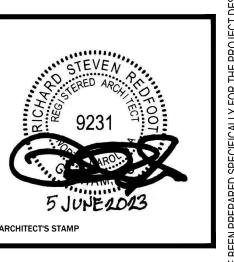
14. EXISTING BUILDING ASSEMBLIES, COMPONENTS, AND SYSTEMS TO REMAIN UNLESS OTHERWISE REQUIRED BY NEW WORK OR NOTED IN THE DOCUMENTS.

REQUIREMENTS AND SPECIFICATIONS. 12. TOP OF PARTITIONS STOP 1" TO 6" ABOVE CEILING. PROVIDE LATERAL BRACING, SECURED TO TOP OF WALL AND ROOF STRUCTURE ABOVE, AT ALL

INTERIOR PARTITIONS. 13. ALL GYPSUM WALLBOARD TO BE FINISHED TO LEVEL 4 PER GYPSUM ASSOCIATION GUIDELINES AS DETAILED IN GA 214-10.

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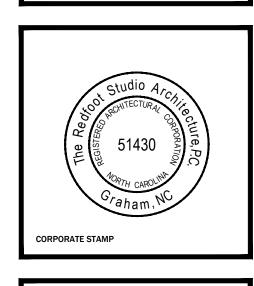
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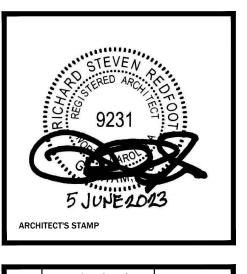
GENERAL NOTES, LEGENDS AND **SCHEDULES**





2305 NC HIGHWAY 24-87 CAMERON, NORTH CAROLINA

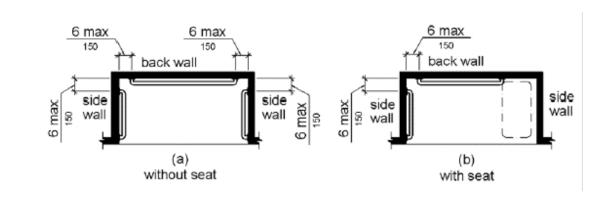


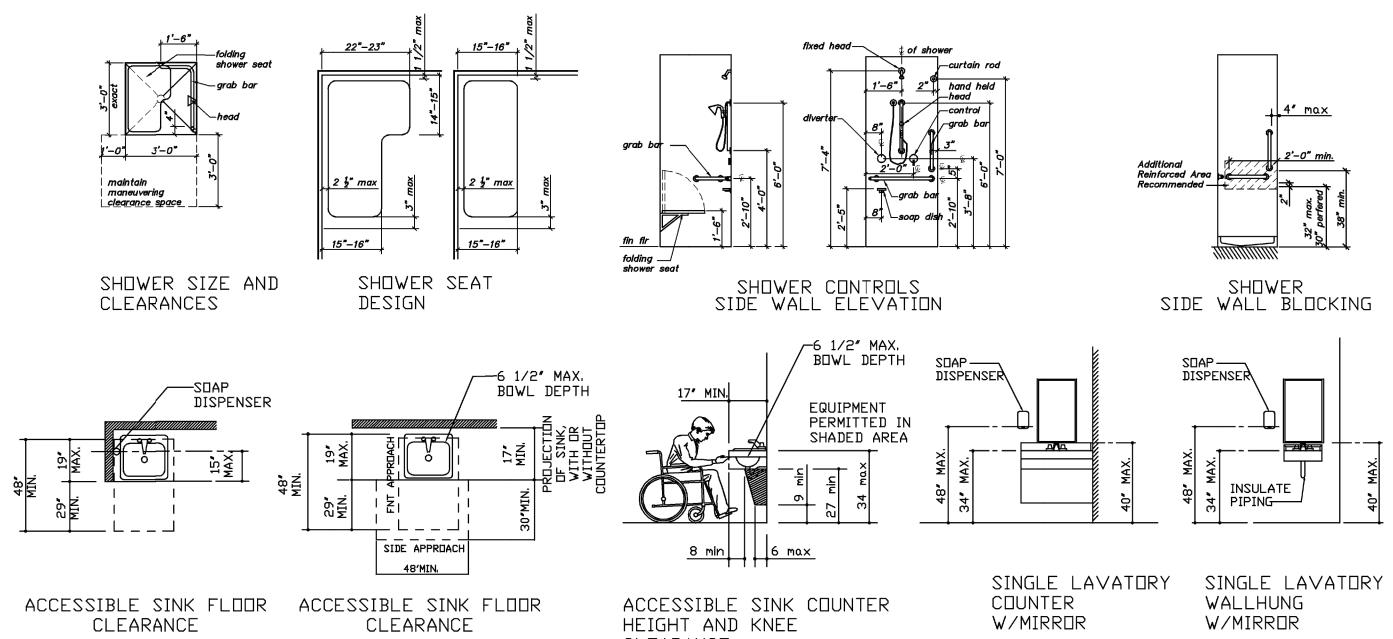


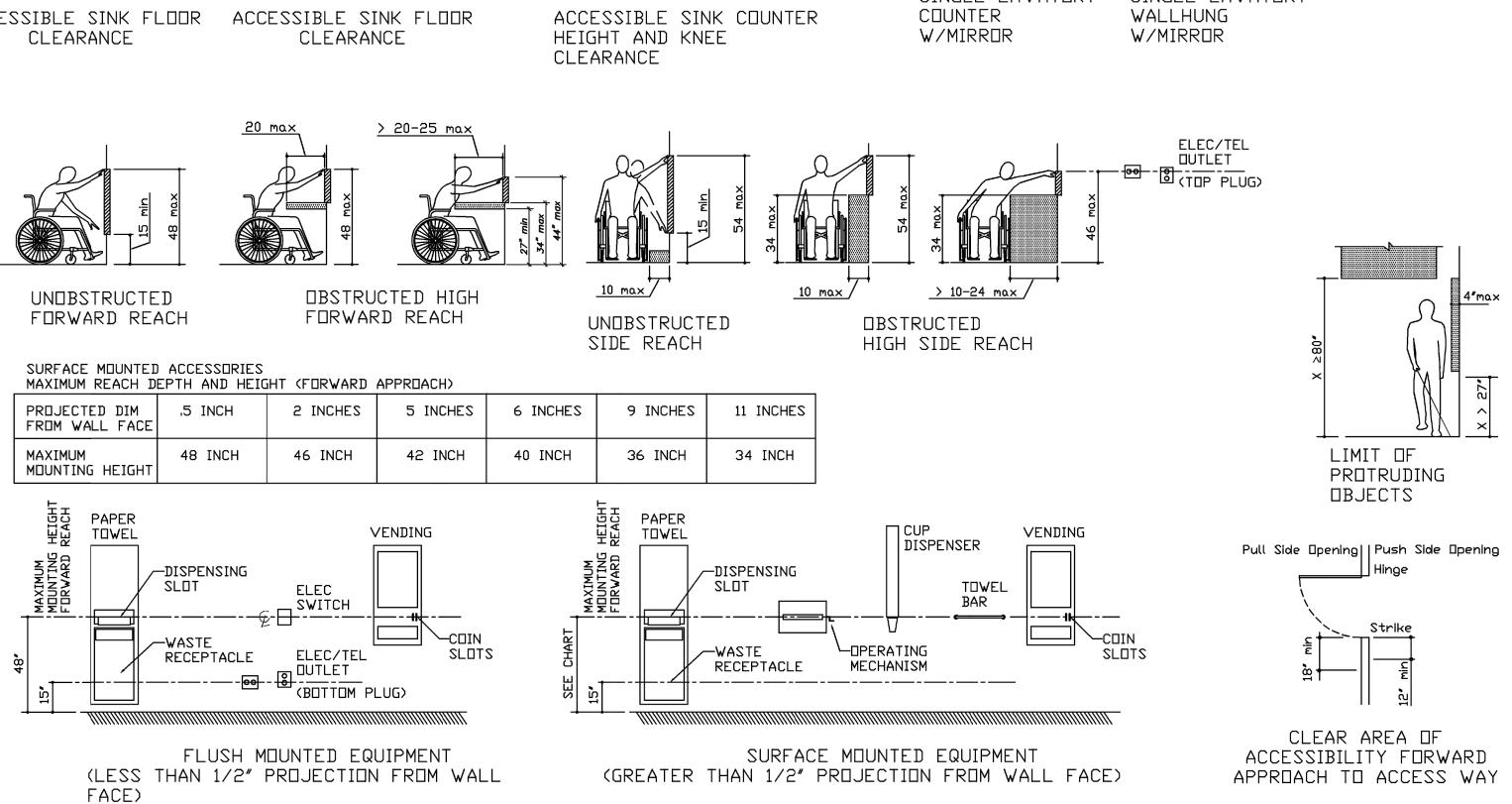
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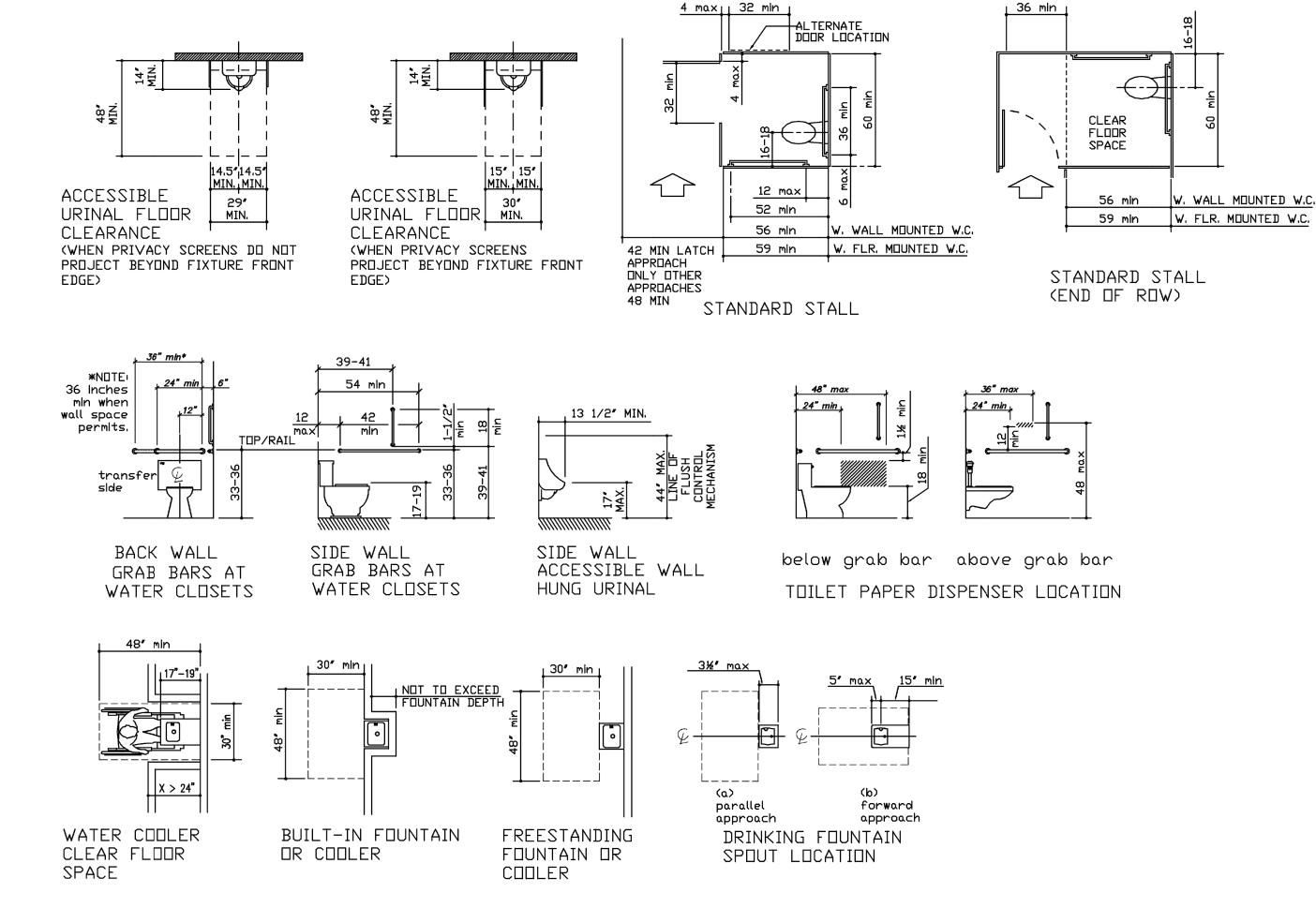




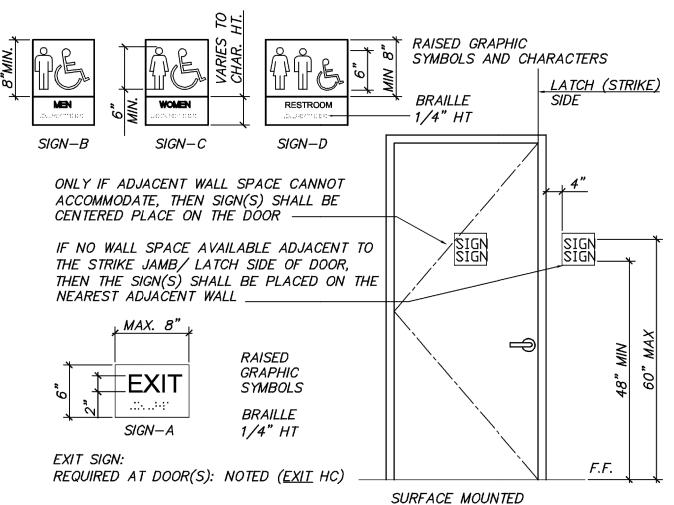


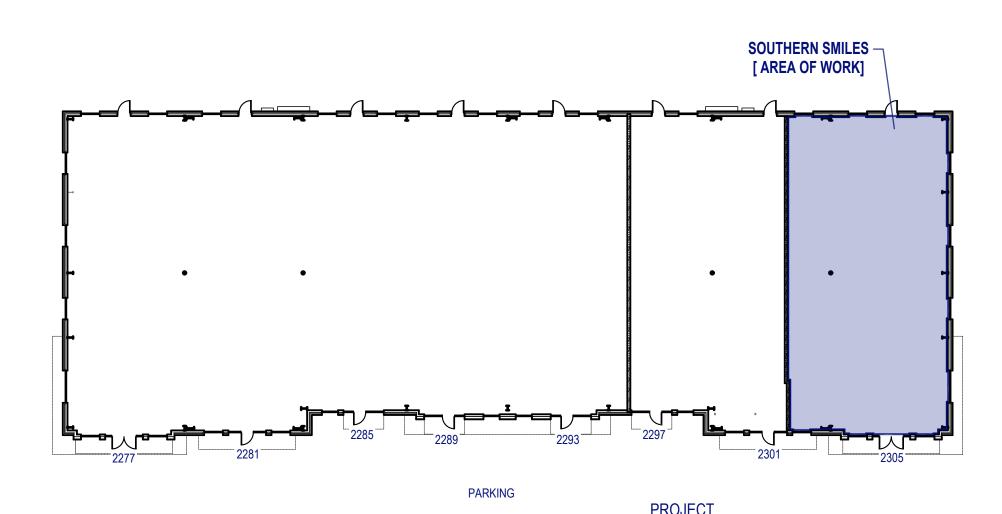






IDENTIFICATION SIGNAGE AT 60" A.F.F., ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR OR WALL IN COLOR AND CONTRAST.

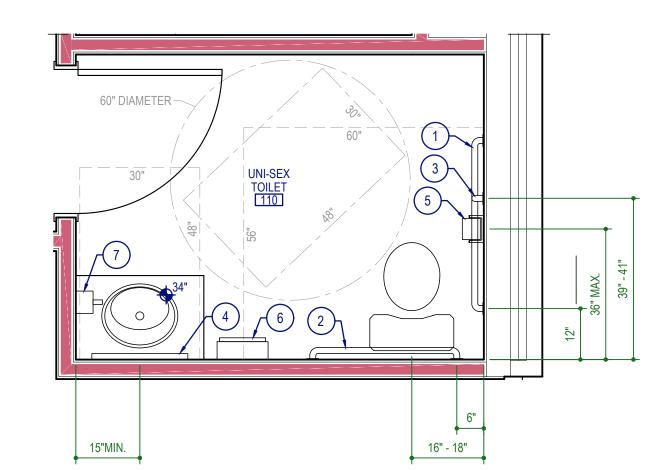




Toilet	Toilet Accessory Schedule						
1	42" GRAB BAR, CENTERLINE OF GRAB BAR AT 34" A.F.F.						
2	36" GRAB BAR, CENTERLINE OF GRAB BAR AT 34" A.F.F.						
3	18" VERTICAL GRAB BAR, BOTTOM OF GRAB BAR AT 39"-41" A.F.F.						
4	18" x 36" STAINLESS STEEL MIRROR, BOTTOM EDGE OF MIRROR 40" AFF, MAX.						
5	TOILET PAPER DISPENSER, 19" AFF MIN. TO CENTERLINE OF TOILET PAPER ROLL						
6	PAPER TOWEL DISPENSER, 48" AFF MAX. TO TOWEL DISPENSER SLOT OR OPERATING MECHANISM						
7	SOAP DISPENSER, 48" AFF MAX. TO DISPENSER						
SCHEDULE	NOTES:						

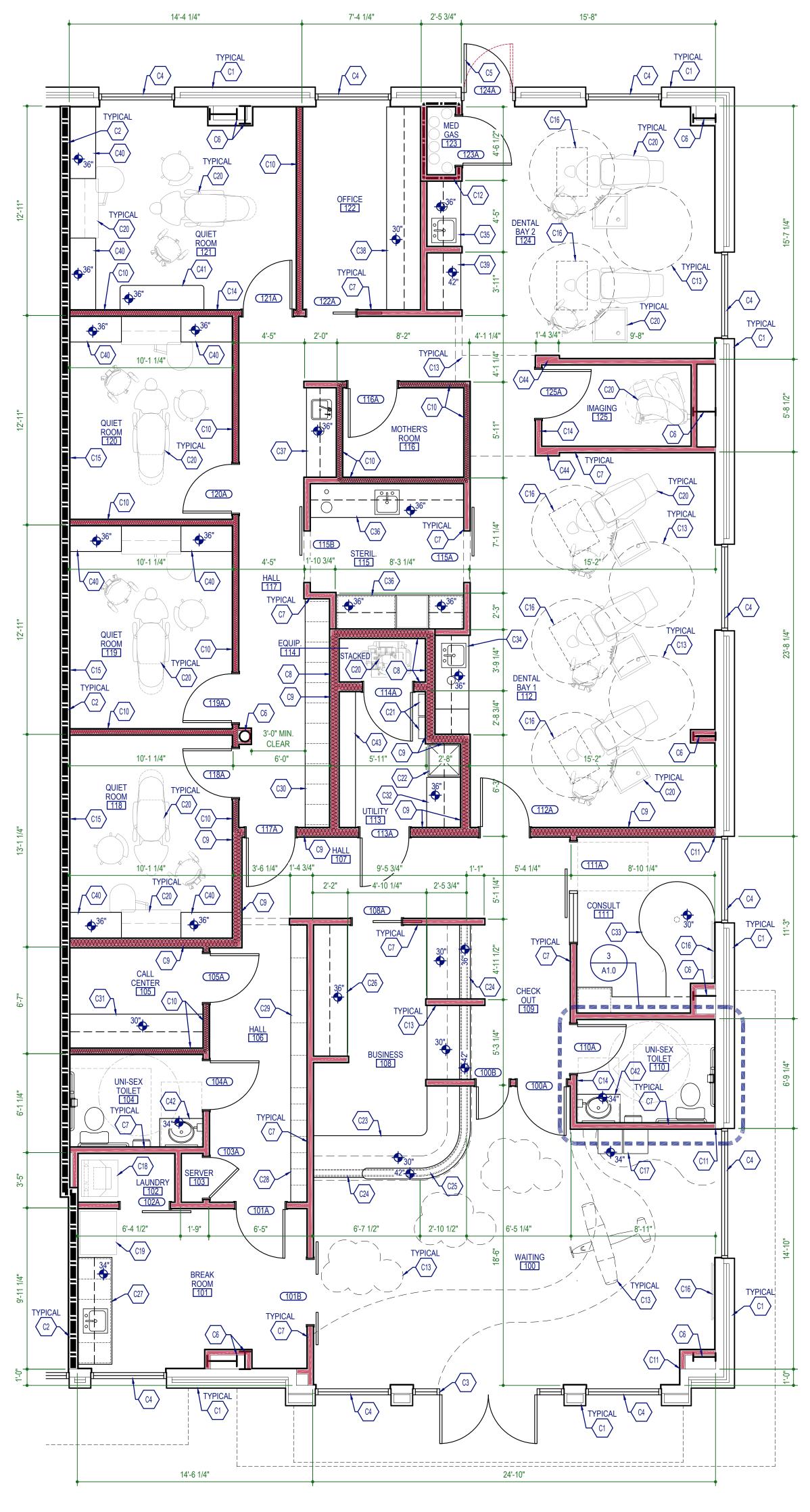
1. ALL FIXTURES AND TOILET ACCESSORIES TO MEET ADA REQUIREMENTS AND BE INSTALLED PER ADA GUIDELINES. PROVIDE BLOCKING IN WALLS AS REQUIRED TO INSTALL ALL

2. TOILET ACCESSORIES.



1. PROVIDE ALL BLOCKING REQUIRED FOR GRAB BARS AND OTHER ACCESSORIES.





CONSTRUCTION NOTES:

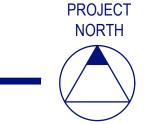
- C1 > EXISTING MASONRY VENEER FRAMED EXTERIOR WALL TO REMAIN, TYPICAL
- EXISTING 1-HOUR FIRE-RATED DEMISING WALL ASSEMBLY TO ROOF DECK, PROVIDE LAYER OF GYPSUM WALLBOARD TO TENANT SIDE OF WALL ONLY, SECURE AND FINISH PER UL U419, SEE 1/A0.0
- C3 > EXISTING STOREFRONT ENTRY ASSEMBLY TO REMAIN, CASE OPENING W/ GYPSUM WALLBOARD
- C4 > EXISTING STOREFRONT WINDOW ASSEMBLY TO REMAIN, CASE OPENING W/ GYPSUM WALLBOARD
- C5 > EXISTING DOOR AND FRAME ASSEMBLY, MODIFY DOOR AS REQUIRED TO REVERSE DOOR HAND
- EXISTING STRUCTURAL STEEL COLUMN TO REMAIN, ENCLOSE W/ FURRING/FRAMING AND GYPSUM
- WALLBOARD, KEEP ENCLOSURE AS CLOSE TO THE COLUMN AS FEASIBLE.
- (C7) PROVIDE NEW INTERIOR 3-5/8" METAL STUD WALL, SEE 1/A2.0, TYPICAL WHERE SHOWN THUS
- PROVIDE NEW METAL STUD FRAMED TYPE 1 SOUND WALL, SEE 2/A2.0, TYPICAL AT EQUIPMENT 114
- PROVIDE NEW METAL STUD FRAMED TYPE 2 SOUND WALL: SEE 3/A2.0,
- TYPICAL AT UTILITY ROOM AND BETWEEN FRONT BUSINESS AREAS AND TREATMENT AREAS
- PROVIDE NEW METAL STUD FRAMED TYPE 3 SOUND WALL: SEE 4/A2.0, TYPICAL AT CALL CENTER 105, QUIET ROOMS 118-121 AND MOTHER'S ROOM 116
- (C11) ALIGN FINISHED FACE OF NEW WALL W/ FINISHED FACE OF STOREFRONT OPENING

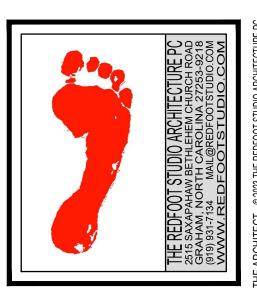
MED GAS CLOSET TO BE CONSTRUCTED PER NC FIRE CODE 3006.2.1. WALLS AND CEILING TO BE 1-HOUR FIRE-RATED CONSTRUCTION PER UL U419, SEE 1/A0.0. DOOR AND FRAME TO BE 1-HOUR FIRE-RATED AND DOOR TO BE SELF-CLOSING. PROVIDE 1-HOUR FIRE-RATED DUCT ENCLOSURE FROM MEDICAL GAS CLOSET TO EXTERIOR OF BUILDING. PROVIDE ROOM WITH MECHANICAL VENTILATION, SEE MECHANICAL DRAWINGS. PROVIDE AT LEAST ONE AUTOMATIC SPRINKLER HEAD IN THE ROOM.

- C12 > MED GAS CLOSET TO HOLD (2) G SIZED CYLINDERS OF OXYGEN (251 CF EACH) FOR A MAXIMUM OF 502 CF OF OXYGEN AND (2) G SIZED CYLINDERS OF NITROUS OXIDE (487 CF EACH) FOR A MAXIMUM OF 974 CF OF NITROUS OXIDE; BASED ON THESE CYLINDER SIZES THE MAXIMUM TOTAL AMOUNT OF MEDICAL GAS IS 1,476 CF. PER TABLE 307.1(1) THE MAQCPA IS 1,500 TOTAL CUBIC FEET. HOWEVER, THE MEDICAL GAS CLOSET IS FIRE-RATED AND VENTILATED AND QUALIFIES AS A EXHAUSTED ENCLOSURE WHICH, PER NOTE E OF TABLE 307.1(1), INCREASES THE ALLOWABLE AMOUNT OF MEDICAL GAS STORED BY 100% TO A TOTAL ALLOWABLE STORAGE AMOUNT OF 3,000 CF.
- LINE OF BULKHEAD, CASED OPENING, OR CEILING FEATURE, ABOVE, SEE REFLECTED CEILING PLAN AND INTERIOR DESIGN DRAWINGS
- (C14) MAINTAIN 18" CLEAR ON PULL SIDE OF DOOR
- (C15) PROPOSED LOCATION FOR FUTURE WALL MURAL, SEE INTERIOR DESIGN DRAWINGS
- PROPOSED LOCATION FOR TELEVISION, PROVIDE BLOCKING AS REQUIRED, VERIFY LOCATION W/ OWNER IN FIELD
- (C17) ACCESSIBLE DRINKING FOUNTAINS, SEE PLUMBING AND ELECTRICAL DRAWINGS
- STACKED WASHER/DRYER, SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR, SEE PLUMBING AND ELECTRICAL DRAWINGS
- (C19) REFRIGERATOR, SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR
- DENTAL EQUIPMENT, SEE DENTAL DRAWINGS,
 COORDINATE W/ MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS, TYPICAL
- (C21) PROPOSED LOCATION FOR SURFACE MOUNTED ELECTRIC PANELS, SEE ELECTRICAL DRAWINGS
- (C22) PROPOSED LOCATION FOR MOP SINK, SEE PLUMBING DRAWINGS
- RECEPTION AND CHECK OUT DESKS, PROVIDE KNEE WALL TO FORM FACE OF DESK AND SUPPORT COUNTERS FINISHED W/ GYPSUM WALLBOARD EACH SIDE, PLASTIC LAMINATE WORK SURFACE AT 30" \langle C23 \rangle AFF, OPEN BELOW WORK SURFACE, LEVEL 2 GRANITE TRANSACTION COUNTERS AT 36" AFF OR 42" AFF (SEE FLOOR PLAN), PROVIDE (4) MOBILE FILE/STORAGE CART BELOW WORK COUNTER, COORDINATE DESIGN AND FINISHES W/ OWNER AND INTERIOR DESIGNER
- ⟨ C24 ⟩ ACCESSIBLE TRANSACTION AREA, TOP OF COUNTER AT 36" AFF MAX., MINIMUM 36" CLEAR WIDTH
- CHECK-IN DESK TO BE DESIGNED AS A LIGHTHOUSE FEATURE, SOFFIT ABOVE RECEPTION COUNTER
- SLOPES BACK AS IT GOES TO CEILING, SEE INTERIOR DESIGN DRAWINGS C26 BUSINESS CABINETS, SEE 11/A2.0
- STAFF LOUNGE CABINETS, COUNTERTOP AT 34" AFF, PROVIDE A MINIMUM OF (1) UPPER CABINET STORAGE SHELF AT 48" AFF MAX., SIDE APPROACH ACCESSIBLE SINK, SEE 10/A2.0
- ⟨C28⟩ STAFF LOCKERS, TRIPLE STACKED, LOCKABLE, (21) TOTAL LOCKERS
- (C29) 24" WIDE X 12" DEEP X 3'-6" HIGH STORAGE CABINETS, DOUBLE STACKED, (10) TOTAL CABINETS
- (C30) 15" WIDE X 18" DEEP X 3'-6" HIGH STORAGE CABINETS, DOUBLE STACKED, (22) TOTAL CABINETS
- CALL CENTER DESK, WORK SURFACE AT 30" AFF, OPEN BELOW WORK SURFACE PROVIDE (1) MOBILE (C31) FILE/STORAGE CARTS BELOW WORK COUNTER, PROVIDE (6) EQUAL WIDTH X 3'-0" TALL UPPER CABINETS, BOTTOM OF UPPER CABINETS AT 5'-0" AFF
- LAB COUNTER, WORK SURFACE AT 36" AFF, OPEN BELOW WORK SURFACE, PROVIDE (4) EQUAL WIDTH X 3'-0" TALL UPPER CABINETS, BOTTOM OF UPPER CABINETS AT 5'-6" AFF
- (C33) CONSULT DESK AND CABINETS, SEE 5/A2.0
- (C34) DENTAL BAY 1 CABINETS, SEE 6/A2.0
- (C35) DENTAL BAY 2 CABINETS, SEE 7/A2.0
- (C36) STERILIZATION CABINETS W/ OPEN SHELVES ABOVE, SEE 12/A2.0
- (C37) DENTAL SINK CABINETS, SEE 8/A2.0
- OFFICE DESK, WORK SURFACE AT 30" AFF, OPEN BELOW WORK SURFACE PROVIDE (3) MOBILE \langle C38 \rangle FILE/STORAGE CARTS BELOW WORK COUNTER, PROVIDE (12) EQUAL WIDTH X 3'-0" TALL UPPER CABINETS, BOTTOM OF UPPER CABINETS AT 5'-0" AFF
- STAND UP WORK STATION, WORK SURFACE AT 42" AFF, OPEN BELOW WORK SURFACE, PROVIDE (2) EQUAL WIDTH X 3'-0" TALL UPPER CABINETS, BOTTOM OF UPPER CABINETS AT 6'-0" AFF
- 12 O'CLOCK CABINETS ADJACENT TO DENTAL 12 O'CLOCK CABINET, DESIGN TO MATCH EXISTING SOUTHERN SMILES OFFICE
- \langle C41 \rangle 60" LONG ANESTHESIOLOGY TABLE, WORK SURFACE AT 36" AFF, OPEN BELOW WORK SURFACE
- (C42) LAVATORY SINK COUNTER, SEE 9/A2.0
- C43 > ADJUSTABLE SHELVES ON HEAVY-DUTY BRACKETS AND STANDARDS
- (C44) PROVIDE BUMP OUT IN WALL BY FRAMING SECTION WITH 6" METAL STUDS

TO FABRICATION OF CABINETRY/CASEWORK.

- . COORDINATE SELECTION OF ALL FINISHES AND COLORS WITH OWNER AND INTERIOR DESIGNER.
- 2. DIMENSIONS ARE TO FACE OF FRAMING. 3. 5/8" GYPSUM WALLBOARD, TYPICAL EXCEPT 5/8" GREENBOARD AT WET LOCATIONS.
- 4. PROVIDE METAL EDGE TRIM AT ALL GYPSUM WALLBOARD OUTSIDE CORNERS AND CASED OPENINGS, TYPICAL.
- 5. PROVIDE TRANSITION STRIPS BETWEEN DIFFERENT FLOORING MATERIALS. 6. PROVIDE ACOUSTIC BATT INSULATION IN ALL WALLS.
- 7. DENTAL EQUIPMENT SHOWN FOR DESIGN INTENT ONLY. COORDINATE INSTALLATION OF ALL DENTAL EQUIPMENT WITH MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.
- . PROVIDE SHIELDING AS REQUIRED FOR X-RAY ROOM(S). PROVIDE CERTIFICATION LETTER FOR RADIATION DESIGN AS REQUIRED.
- . PROVIDE BLOCKING FOR ALL EQUIPMENT, ACCESSORIES, CABINETS, FIXTURES, ETC.. 10. PROVIDE TYPE 2A 10BC FIRE EXTINGUISHERS AS REQUIRED BY FIRE MARSHAL. DETERMINE FINAL LOCATIONS IN FIELD WITH FIRE MARSHAL. 11. VERIFY AND COORDINATE DESIGN OF ALL CABINETRY WITH OWNER. PROVIDE SHOP DRAWINGS OF CABINETRY FOR OWNER REVIEW PRIOR



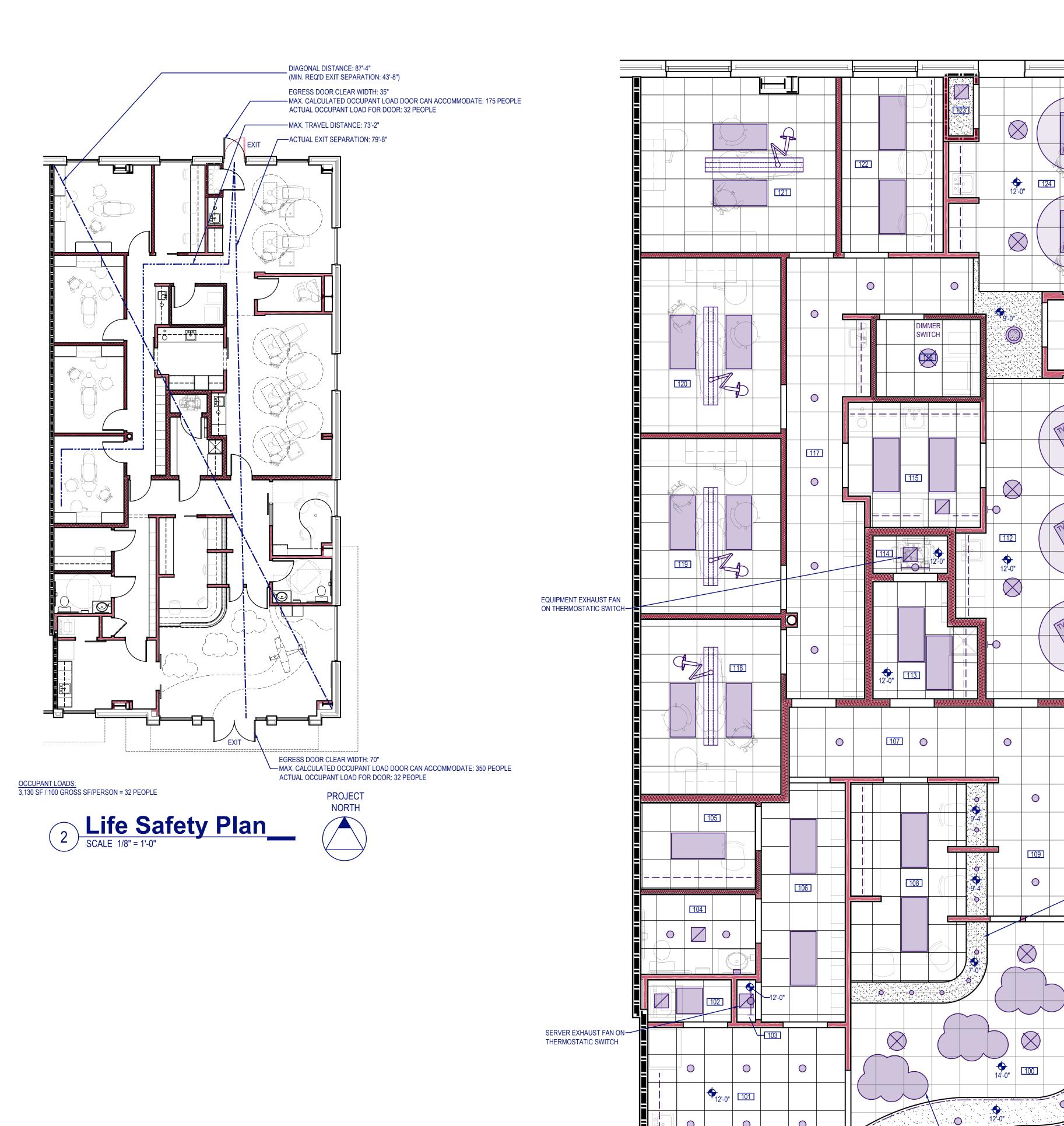






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FLOOR PLAN





ACOUSTIC

UMBRELLAS, TYPICAL

UMBRELLAS, TYPICAL

CENTER LIGHT

OVER DESK BELOW

SOFFIT ABOVE RECEPTION COUNTER __SLOPES BACK AS IT GOES TO CEILING AND IS FINISHED TO LOOK LIKE A LIGHTHOUSE, COORDINATE WITH INTERIOR DESIGNER

LIGHTING LEGEND

2X2 LED FLAT PANEL

2X4 LED FLAT PANEL

OH WALL SCONCE

- — — — BELOW CABINET LIGHT

RECESSED CAN LIGHT

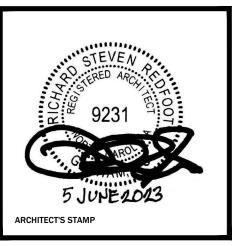
PENDANT LIGHT

SURFACE MOUNTED LIGHT

1X2 LED MOUNTED ON WALL ABOVE DOOR

☐ JUNCTION BOX FOR LED MIRROR @ 58" AF





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REFLECTED CEILING & LIFE SAFETY PLANS



LIGHTING PLAN NOTES: . TYPICAL CEILING HEIGHT IS 10'-0" AFF, U.O.N. 2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND INFORMATION.

ACOUSTIC CLOUDS, TYPICAL

SEE INTERIOR DESIGN DRAWINGS FOR FINISHES. COORDINATE ELECTRICAL WITH DENTAL EQUIPMENT MANUFACTURER REQUIREMENTS. BATH FANS AND LIGHTS SWITCHED SEPARATELY.
PROVIDE JUNCTION BOX ABOVE EACH ACOUSTIC UMBRELLA FOR POTENTIAL FUTURE LIGHTING.

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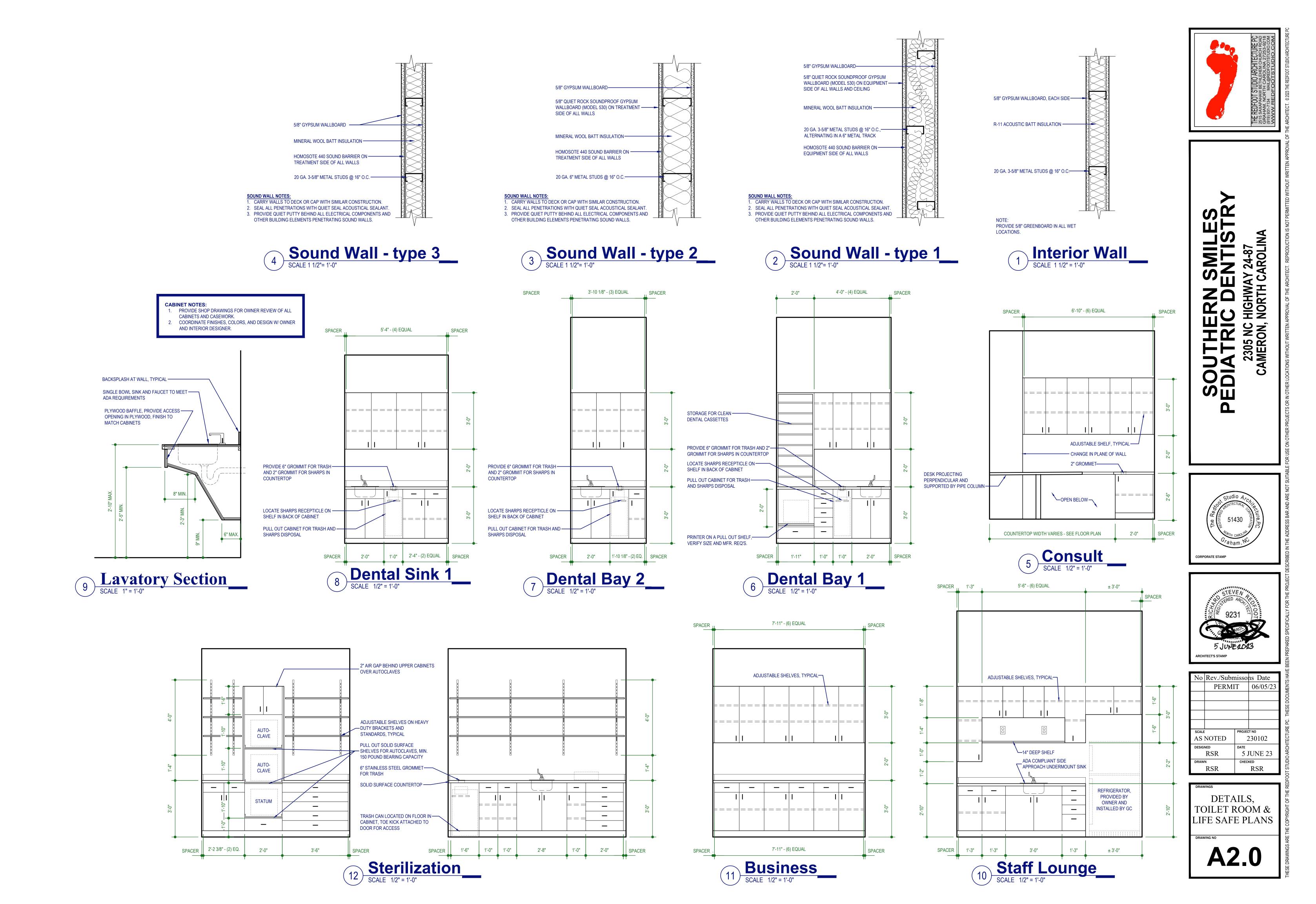
DECORATIVE AIRPLANE HUNG

FROM ROOF STRUCTURE,

SUPPLIED BY OWNER AND

INSTALLED BY CONTRACTOR

PROVIDE LINEAR DIFFUSERS IN WAITING ROOM GYPSUM WALLBOARD CEILING.. PROVIDE BLOCKING AS REQUIRED FOR DENTAL LIGHTS AND TELEVISIONS, COORDINATE W/ MANUFACTURER'S REQUIREMENTS. ANY WOOD USED TO BE FIRE-TREATED.



						Walls				CEILING	
ROOM NO	ROOM NAME	FLOOR	WALL	N	S	Е	W	DOORS	CEILING	HEIGHT	REMARKS
100	WAITING	LVT-1 CPT-1,2	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-1, 3, GYP	VARIED	1
101	BREAK ROOM	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	12'-0"	
102	LAUNDRY	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
103	SERVER	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	12'-0"	
104	UNISEX	CT-1	WB-1	PT-1	PT-3	PT-1	PT-3	PT-6	ACT-2	10'-0"	
105	CALL CENTER	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
106	HALL	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
107	HALL	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
108	BUSINESS	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
109	CHECK OUT	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
110	UNISEX	CT-1	WB-1	PT-1	PT-3	PT-3	PT-1	PT-6	ACT-2	10'-0"	
111	CONSULT	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
				PT-1,4,	PT-1,4,						
112	DENTAL BAY 1	LVT-1.2.3.4	WB-1	MURAL WC	MURAL WC	PT-1	PT-1	PT-6	ACT-1,3	12'-0"	2, 3
113	UTILITY	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	12'-0"	
114	EQUIP	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	12'-0"	
115	STERILIZATION	LVT - 2	WB-1	PT-3	PT-3	PT-1	PT-1	PT-6	ACT-2	10'-0"	
116	MOTHER'S ROOM	LVT-1	WB-1	PT-1	PT-1 / MURAL WC	PT-1	PT-1 / MURAL WC	PT-6	ACT-2	10'-0"	
117	HALL	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
118	QUIET ROOM	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1 / MURAL WC	PT-6	ACT-2	10'-0"	3
119	QUIET ROOM	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1 / MURAL WC	PT-6	ACT-2	10'-0"	3
120	QUIET ROOM	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1 / MURAL WC	PT-6	ACT-2	10'-0"	3
121	QUIET ROOM	LVT-1	WB-1	PT-1	PT-1	PT-1 / MURAL WC	PT-1	PT-6	ACT-2	10'-0"	3
122	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
123	MED GAS	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
					PT-1,4,						
124	DENTAL BAY 2	LVT-1.2.3.4 CPT-2	WB-1	PT-1	MURAL WC	PT-1	PT-1	PT-6	ACT-1,3	12'-0"	2, 3
125	IMAGING	LVT-1	WB-1	PT-1	PT-1	PT-3	PT-1	PT-6	GYP	10'-0"	

GENERAL FINISH SCHEDULE NOTES

- COORDINATE AND VERIFY FINISHES AND COLORS WITH INTERIOR DESIGNER AND/OR OWNER
- WALL PAINT TO BE SHERWIN WILLIAMS OR APPROVED EQUAL. ONE COAT OF PRIMER TINTED TO WALL COLOR, TWO COATS OF PAINT.
- ALL FLOORING TRANSITION STRIPS TO BE LOW PROFILE SCHLUTER ALUMINUM
- ANY NATURAL STONE SLABS TO BE SELECTED BY DESIGNER
- ALL FREESTANDING WORKSURFACES TO BE SUPPORTED WITH FLAT CONCEALED BRACKETS IN WALL (I.E. ECFLAT24 2.0)

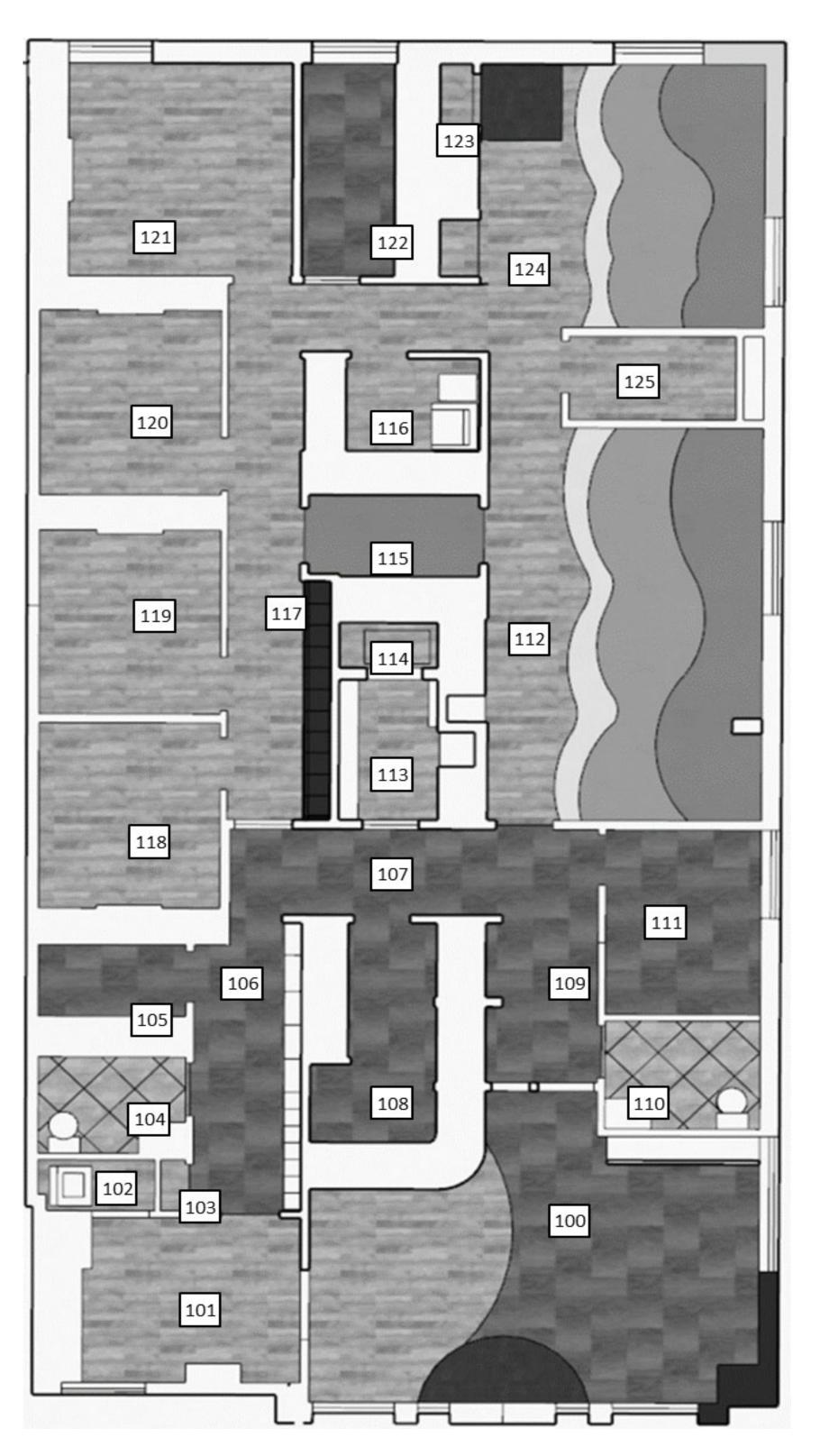
MATERIALS

- CT-1 BEST TILE, PROVENCE PORCELAIN, 24 X 24" ECRU FOR FIELD, CUT TO 4" X24 FOR WALL BASE (CAP WITH ALUMINUM TILE EDGE); MAPEI 5027 SILVER GROUT (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- PATCRAFT VAPOROUS 10579, LAGUNA 00450, 24 X24" (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- CPT-2 PATCRAFT ACCESS 10533, TREK 00590, 24" X 24" (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- PATCRAFT STYLE 1420V TIMBER GROVE II, 20 MIL, COLOR 00174 HEATHER-V3 5.96 X 48" PLANK (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- LVT-2 SHAW CONTRACT, PIGMENT DIRECT GLUE, 0503V, 7 X 48", BLUE (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- SHAW CONTRACT, PIGMENT DIRECT GLUE, 20 MIL, 0503V, 7 X 48", CYAN (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- LVT-4 SHAW CONTRACT, PIGMENT DIRECT GLUE, 20 MIL, 0503V, 7 X 48", BONE (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- TARKETT/JOHNSONITE 4" BASE IN 92 BLUE LAGOON (SOURCE: BROCK CONTRACT, SCOUT 919-239-9224)
- WALLS: SHERWIN WILLIAMS, DURATION SATIN FINISH SW7063 'NEBULOUS WHITE' ACCENT: SHERWIN WILLIAMS, DURATION SATIN FINISH SW7063 'RAVE RED'
- ACCENT: SHERWIN WILLIAMS, DURATION SATIN FINISH SW6966 'BLUEBLOOD'
- PT-4 ACCENT: SHERWIN WILLIAMS, DURATION SATIN FINISH SW6788 'CAPRI'
- PT-5 ACCENT: SHERWIN WILLIAMS, DURATION SATIN FINISH SW7005 'PURE WHITE' PT-6 DOORS: SHERWIN WILLIAMS, PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY SEMI-GLOSS- SW6966 'BLUEBLOOD'
- PT-7 ACT-1 GRID: SHERWIN WILLIAMS, PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY EG SHELL SW6224 'MOUNTAIN AIR'
- ACT-1 CERTAINTEED, SYMPHONY M 24X24 ACOUSTIC CEILING TILE 1222BB-75-1, IN PT-7, SW6224 MOUNTAIN AIR, 15/16" GRID FIELD PAINTED TO MATCH TILE (SOURCE: BROCK CONTRACT, ERIC CHRISTIAN 919-614-CERTAINTEED, SYMPHONY M 24X24 ACOUSTIC CEILING TILE 1222BB-75-1, WHITE, 15/16" GRID (SOURCE: BROCK CONTRACT, ERIC CHRISTIAN 919-614-8104)
- ACT-3 TURF.DESIGN CUSTOM ORDER (DETAILED DESIGN ON FILE AT SOURCE: BROCK CONTRACT, ERIC CHRISTIAN 919-614-8104)

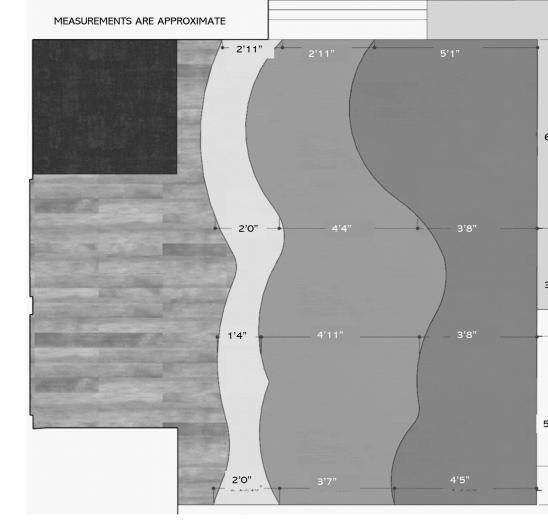
REMARKS

- GYPSUM WALLBOARD BULKHEAD OVER TRANSACTION COUNTER AND FREEFORM SOFFITS. NOTE ACT GRID TO BE FIELD PAINTED. REFERENCE ACT-1 AND REFLECTED CEILING PLAN.
- PAINT BUMPOUT WALL FEATURE EITHER SIDE OF IMAGING SOFFIT PT-4
- PAINT ON ALL WALLS, THEN WALL COVERING ON NOTED WALLS.













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CAROLINA

2305 N CAMEROI

FINISHES

MONTH JUNE DAY YEAR 2023

ID 1.0

UMBING FIXTURI	ES					
					COLOR	
ROOM NO	TYPE	DESCRIPTION	MANUFACTURER	MODEL		NOTES
	SINK	UNDERMOUNT SINGLE BASIN CENTER DRAIN, INCLUDES DRAIN	ELKAY	ELUH2317	STAINLESS STEEL	25 1/2"
101		INSTALLATION UNDERMOUNT CLIP 8 PACK	ELKAY	LKUCLIP8		
	FAUCET	GENTA LX PULL-DOWN SPRAY KITCHEN FAUCET	MOEN	7882SRS	SPOT RESIST STAINLESS	POWERCLEAN TECHNOLOGY
				VERO		
	LAVATORY	RECTANGULAR CERAMIC UNDERMOUNT SINK WITH OVERFLOW	DURAVIT	0330480017	WHITE	20-5/8"
	DRAIN	ADA COMPLIANT DRAIN OPENING NO OVERFLOW	ELKAY	LKAD174LO	CHROME	1 1/2" OR 1 5/8" DRAIN OPENING
104	FAUCET	0.5 GPM SINGLE HOLE BATHROOM FAUCET - ELECTRONIC	DELTA	821DPA50-SS	BRILLIANCE STAINLESS	BATTERY OPERATED
	MIXING VALVE	UNIVERSAL MIXING VALVE WITH 3/8" CONNECTIONS	DELTA	R2910-MIXLF	BRASS	
		CADET 3, 1.28 GPF TWO PIECE ELONGATED TOILET, LEFT MOUNTED TRIP LEVER, SLOW CLOSE	AMERICAN			
	WATER CLOSET	SEAT INCLUDED	STANDARD	2989101.02	WHITE	LEFT SIDE LEVER
				VERO		
	LAVATORY	RECTANGULAR CERAMIC UNDERMOUNT SINK WITH OVERFLOW	DURAVIT	0330480017	WHITE	20-5/8"
	DRAIN	ADA COMPLIANT DRAIN OPENING NO OVERFLOW	ELKAY	LKAD174LO	CHROME	1 1/2" OR 1 5/8" DRAIN OPENING
110						
110	FAUCET	0.5 GPM SINGLE HOLE BATHROOM FAUCET - ELECTRONIC	DELTA	821DPA50-SS	BRILLILANCE STAINLESS	BATTERY OPERATED
	MIXING VALVE	UNIVERSAL MIXING VALVE WITH 3/8" CONNECTIONS	DELTA	R2910-MIXLF	BRASS	
		CADET 3, 1.28 GPF TWO PIECE ELONGATED TOILET, RIGHT MOUNTED TRIP LEVER, SLOW	AMERICAN			
	WATER CLOSET	CLOSE SEAT INCLUDED	STANDARD	2989813.02	WHITE	RIGHT SIDE LEVER
	SINK	LUSTERSTONE UNDERMOUNT SINGLE BASKING SINK	ELKAY	ELUH1212	STAINLESS STEEL	14 1/2"
112		INSTALLATION UNDERMOUNT CLIP 8 PACK	ELKAY	LKUCLIP8		
112		3 1/2" BASKET STRAINER AND TAIL PIECE	ELKAY	LK99	STAINLESS STEEL	
_	FAUCET	MODERN .5 GPM SINGLE HOLE FAUCET	DELTA	581LF-HGM-PP	CHROME	
	SINK	LUSTERSTONE UNDERMOUNT SINGLE BASKING SINK	ELKAY	ELUH1212	STAINLESS STEEL	14 1/2"
117		INSTALLATION UNDERMOUNT CLIP 8 PACK	ELKAY	LKUCLIP8		
117		3 1/2" BASKET STRAINER AND TAIL PIECE	ELKAY	LK99	STAINLESS STEEL	
	FAUCET	MODERN .5 GPM SINGLE HOLE FAUCET	DELTA	581LF-HGM-PP	CHROME	
	SINK	LUSTERSTONE UNDERMOUNT SINGLE BASKING SINK	ELKAY	ELUH1212	STAINLESS STEEL	14 1/2"
124		INSTALLATION UNDERMOUNT CLIP 8 PACK	ELKAY	LKUCLIP8		
124		3 1/2" BASKET STRAINER AND TAIL PIECE	ELKAY	LK99	STAINLESS STEEL	
	FAUCET	MODERN .5 GPM SINGLE HOLE FAUCET	DELTA	581LF-HGM-PP	CHROME	

IGHTING FIXTURES	5											
									COLOR			
ROOM NO	MARK	DESCRIPTION	MANUFACTURER	SERIES	CATALOG#	LAMPS	CRI/CCT	LUMENS	TEMP	VOLTS	QUANTITY	REMARKS
		19" ROUND INTEGRATED LED PENDANT,										
100	P1	SATIN NICKEL FINISH, WHITE SHADE	AFS	ANP	ANP1932LAJUDSN-LW	42W INTEGRATED LED	90	3200	3500	120, 277	3	1, 2
		15" ROUND INTEGRATED LED PENDANT,										
112,116,124	P2	SATIN NICKEL FINISH, WHITE SHADE	AFS	ANP	ANP1524LAJUDSN-LW	30W INTEGRATED LED	90	2400	3500	120, 277	10	1, 2
		12" ROUND INTEGRATED LED PENDANT,										
111	Р3	SATIN NICKEL FINISH, WHITE SHADE	AFS	ANP	ANP1214LAJUDSN-LW	18W INTEGRATED LED	90	1400	3000	120, 277	1	3
		FLEX NEON LRUDR8 BENDS LEFT/RIGHT &										
100	C1	UP/DOWN 0.8" ROUND LENS, 5W, RGBW	PURE EDGE LIGHTING	FLEX NEON	LRDUR8	5W RGBW				24VDC		4,5
104, 110	LED MIRROR	24 x 36" LED MIRROR	CORDOVA MIRRORS	UNITY	UNY2436	47W INTEGRATED LED	90	4200	3000	120	2	6

REMARKS	
1	INSTALL DIFFUSER AT 10'0" AFF, EXCEPT IN 116 INSTALL AT 7'6"
2	ADJUSTABLE COLOR TEMPERATURE, SELECT 3500 for 112, 124, SELECT 3000 FOR 116
3	INSTALL DIFFUSER AT 5'0" AFF
4	FOLLOWS CURVE ATTACHED TO FACE OR RECESSED. LAMP TO FACE UP OR OUT, NOT DOWN
5	REQUIRES REMOTE CONTROL CDMX1-RGBW-WH AND OTHER POWER SUPPLIES.
6	MIRROR TO HANG BETWEEN 3'4" - 6'4" AFF



DESIGNE

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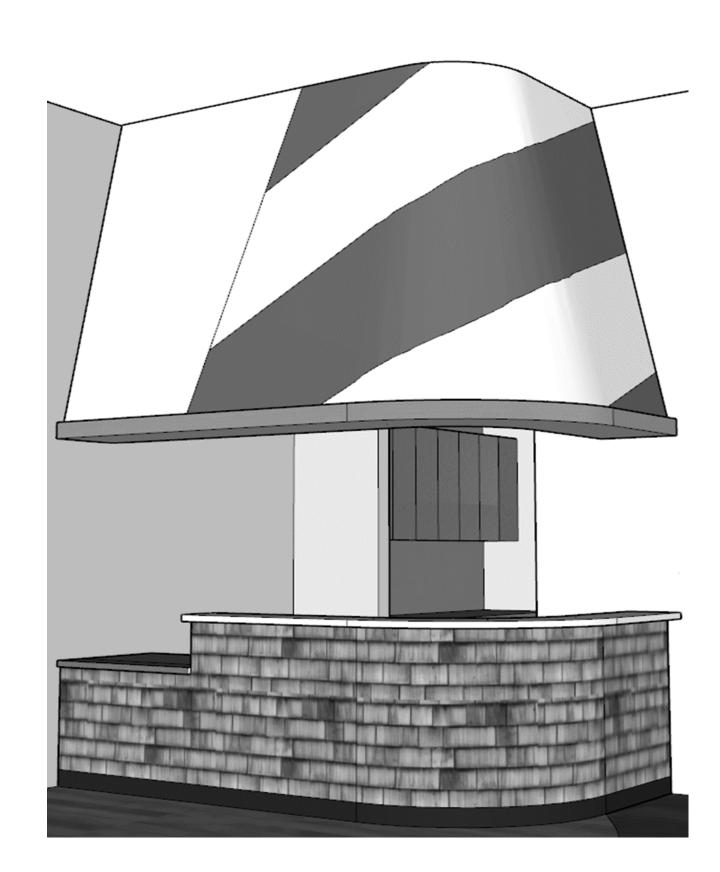
SOUTHERN SMILES EDIATRIC DENTISTRY

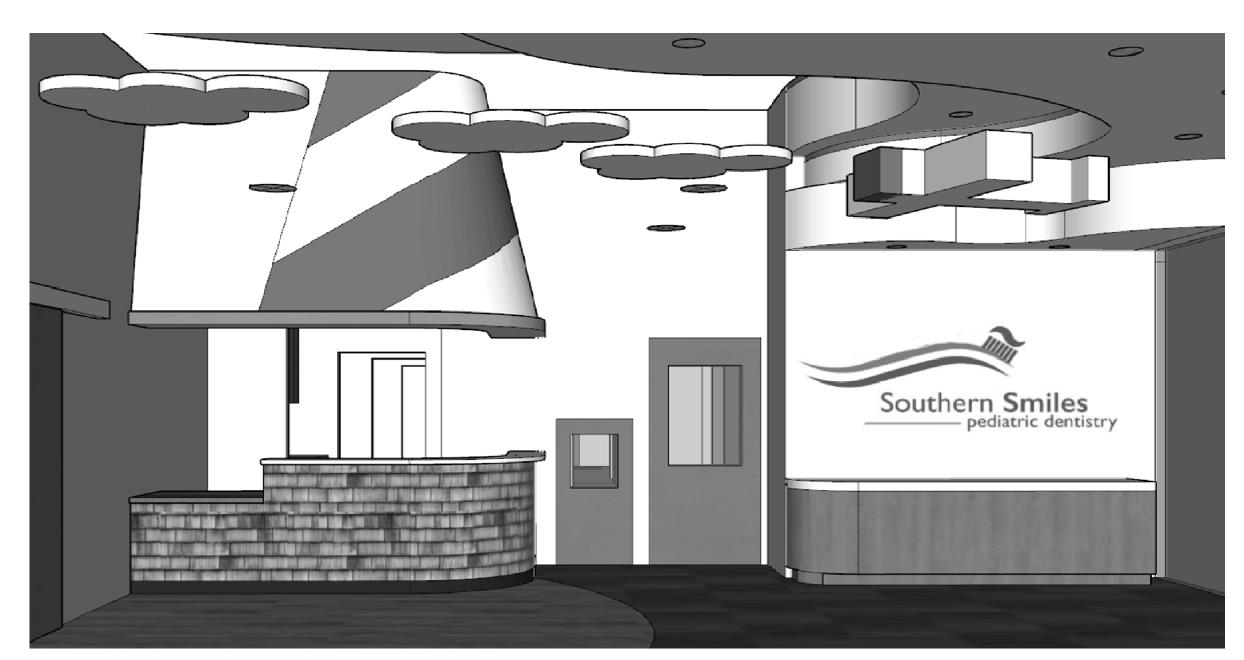
FIXTURES

MONTH	JUNE				
DAY	2				
YEAR	2023				

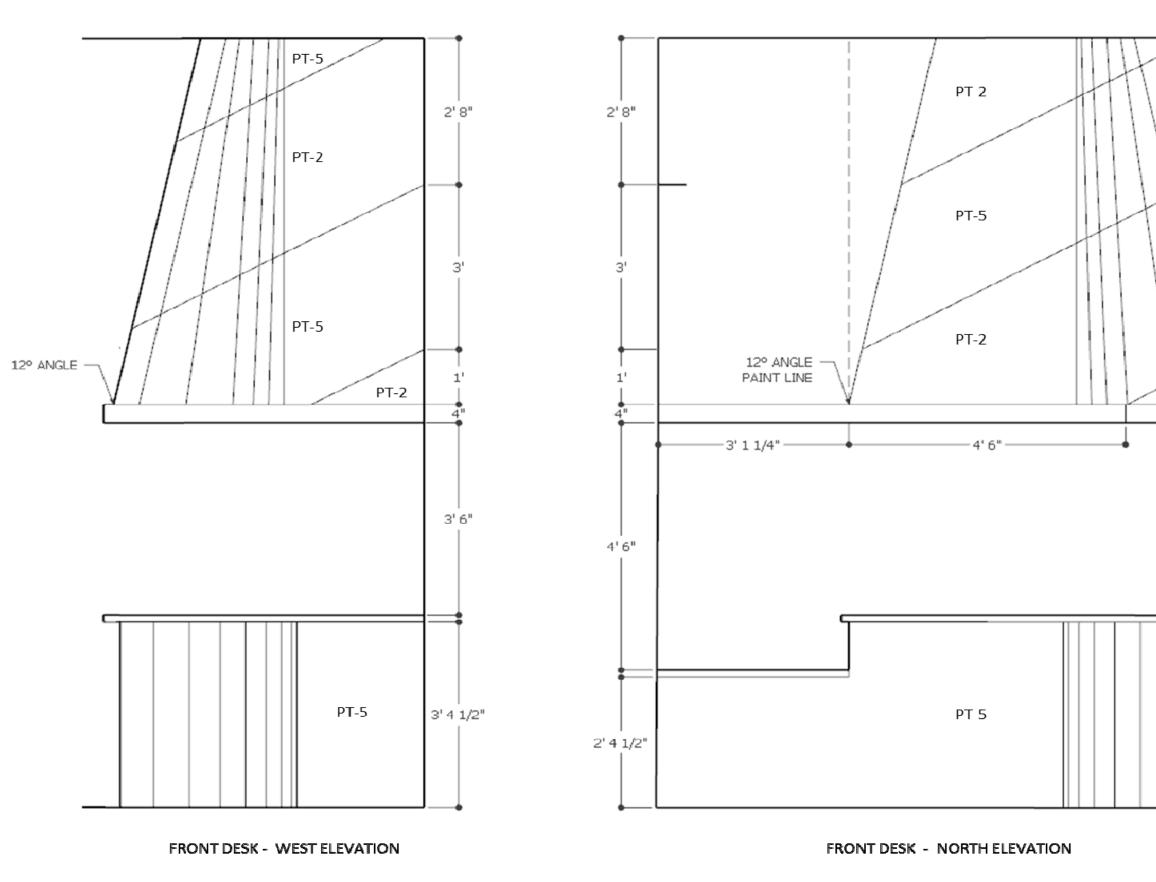
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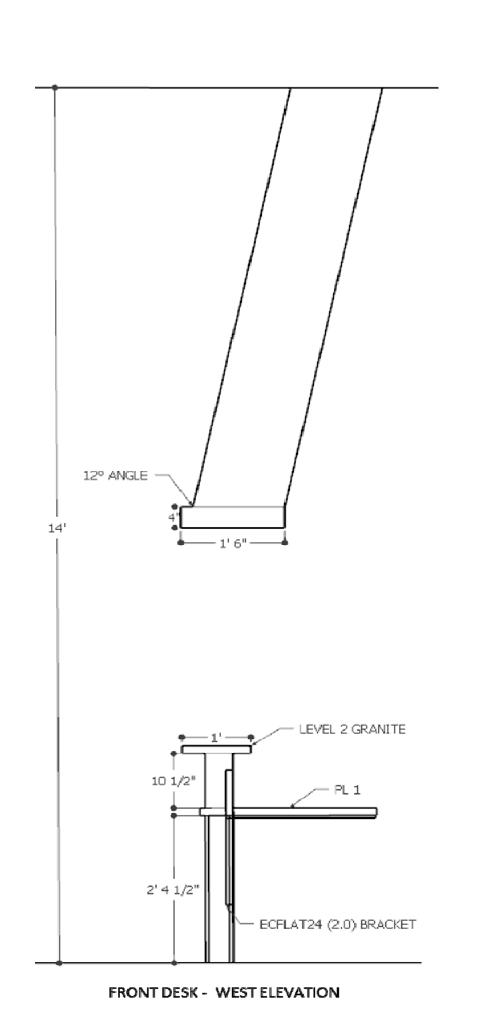
NOTES	
	PROVIDE KNEE WALL TO FORM FACE OF DESK AND SUPPORT COUNTERS FINISH W/ PAINTED GYPSUM WALLBOARD EACH SIDE, PROVIDE PLASTIC LAMINATE WORK SURFACE AT 30"
A.	AFF, OPEN BELOW WORK SURFACE, LEVEL 2 GRANITE TRANSACTION COUNTERS AT 42" AFF, PROVIDE (2) MOVABLE BELOW COUNTER FILE CABINETS
B.	APPLY MURAL PAPER TO FRONT OF TRANSACTION COUNTER WITH RUBBER BASE
C.	SOFFIT SLOPE FOR CONSTRUCTION AND PAINT LINE IS 12 DEGREES
D.	
E.	
F.	

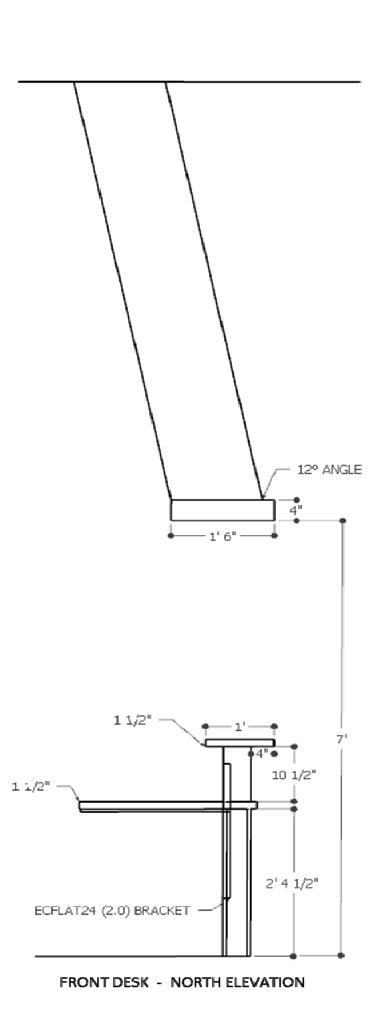




WAITING 100 – SKETCH FOR CONTEXT









MICHELLE
CUMMINGS

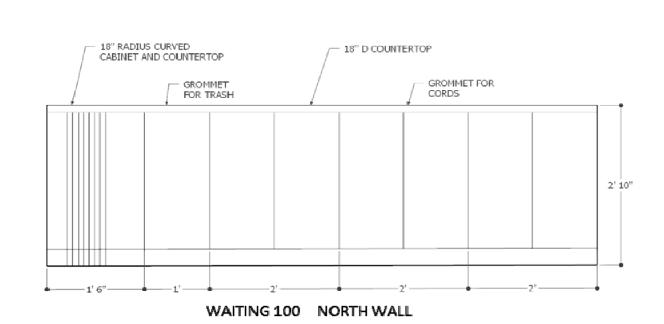
CONTACT
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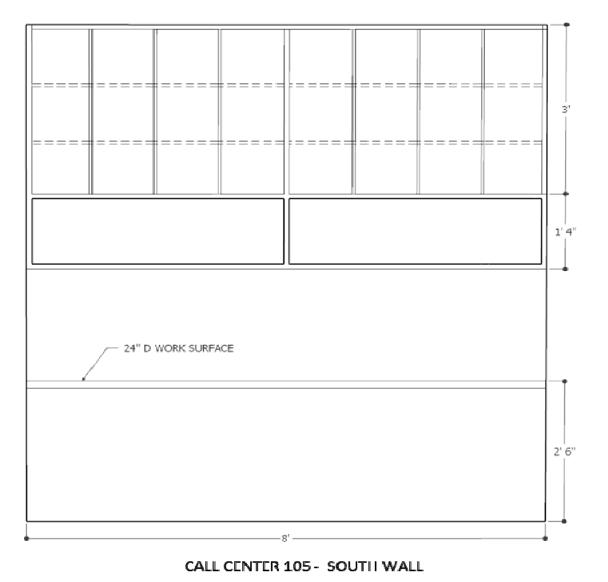
/ 12° ANGLE

PEDIATRIC DENTISTRY
2305 NC HIGHWAY 24-87
CAMERON, NORTH CAROLINA

MONTH	JUNE
DAY	2
YEAR	2023

			CAB			
ROOM NO	ROOM NAME	WALL	BODY	COUNTER	REMARKS	
100	WAITING	NORTH	PL-2	ST-1	1	
101	BREAK ROOM	WEST	PL-4	ST-1	1	
104	UNISEX	SOUTH	PL-1	ST-1	1	
105	CALL CENTER	SOUTH	PL-2	PL-2		
106	HALL	EAST	PL-1	SS-1		
108	BUSINESS	EAST, SOUTH, WEST	PL-1	PL-1		
109	CHECK OUT	WEST	NA	ST-1		
110	UNISEX	SOUTH	PL-1	ST-1	1	
111	CONSULT	EAST, SOUTH	PL-2	PL-2		
112	DENTAL BAY 1	WEST	PL-1	SS-1		
115	STERILIZATION	NORTH, SOUTH	PL-1	SS-1		
117	HALL	EAST	PL-1	SS-1		
118	QUIET ROOM	SOUTH	PL-1	SS-1		
119	QUIET ROOM	NORTH	PL-1	SS-1		
120	QUIET ROOM	NORTH	PL-1	SS-1		
121	QUIET ROOM	WEST	PL-1	SS-1		
122	OFFICE	EAST	PL-2	PL-2	_	
124	DENTAL BAY 2	WEST	PL-1	SS-1		





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DENTISTRY

PEDIATRIC

CAROLINA

2305 NC CAMERON,

INTERIORS

GENERAL CABINETRY NOTES

- A PROVIDE SHOP DRAWINGS FOR OWNER REVIEW OF ALL CABINETS AND CASEWORK
- B COORDINATE AND VERIFY FINISHES AND COLORS WITH INTERIOR DESIGNER AND/OR OWNER
- C PROVIDE SOFT CLOSE HARDWARE ON ALL CABINETS
- D CONFIRM LOCKING PREFERENCES WITH OWNER
- E ALL FREESTANDING WORKSURFACES TO BE SUPPORTED WITH FLAT CONCEALED BRACKETS IN WALL (I.E. ECFLAT24 2.0)

CABINET FINISHES

- PL-1 TAFISA BRUSHED ALUMINUM T474 (CR) CRYSTALITE / VERTICAL GRAIN DIRECTION
- PL-2 WILSONART FRISTON ASH 8229K-79 RIDGEWOOD TEXTURE FINISH / VERTICAL GRAIN DIRECTION
- PL-3 FORMICA HAZEL WALNUT 5788-NG NATURAL GRAIN FINISH / VERTICAL GRAIN DIRECTION
- PL-4 WILSONART PHANTOM CHARCOAL 8214K-28 GLOSS LINE FINISH / VERTICAL GRAIN DIRECTION
- SS-1 TO BE CONFIRMED AS MATCH FOR COUNTERTOPS ON THE 12 O'CLOCK CABINETS BEING ORDERED THROUGH PATTERSON
- ST-1 ANDROMEDA WHITE GRANITE OR SIMILAR. SLAB TO BE SELECTED BY DESIGNER.

CABINET HARDWARE

PULLS BERENSON BRAVO 3" FINGER PULL, BRUSHED NICKEL, 1057-4BPN-P

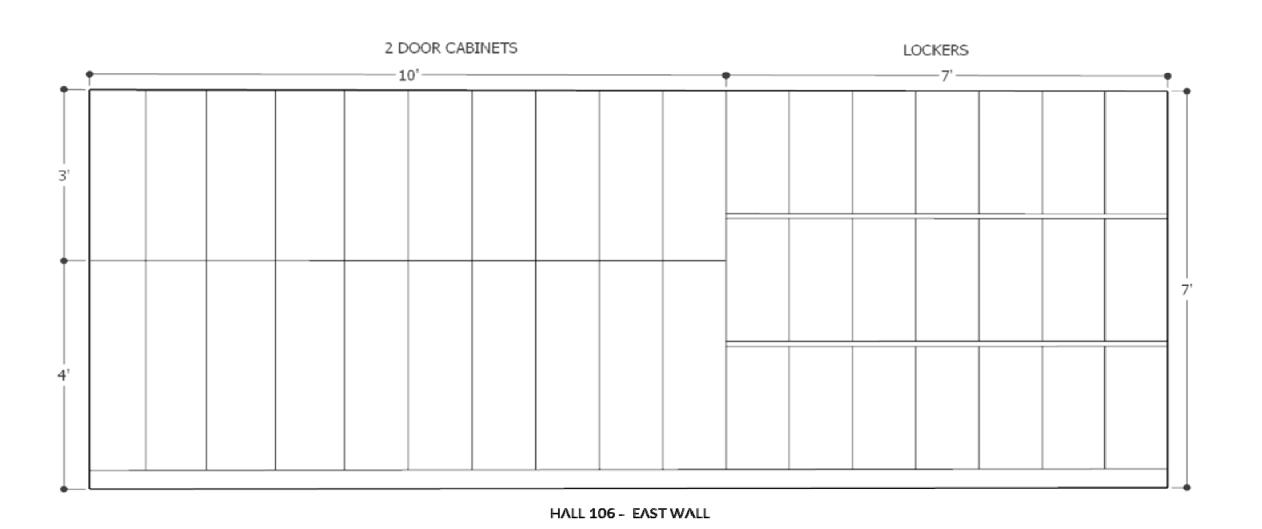
HINGES SOFT CLOSE

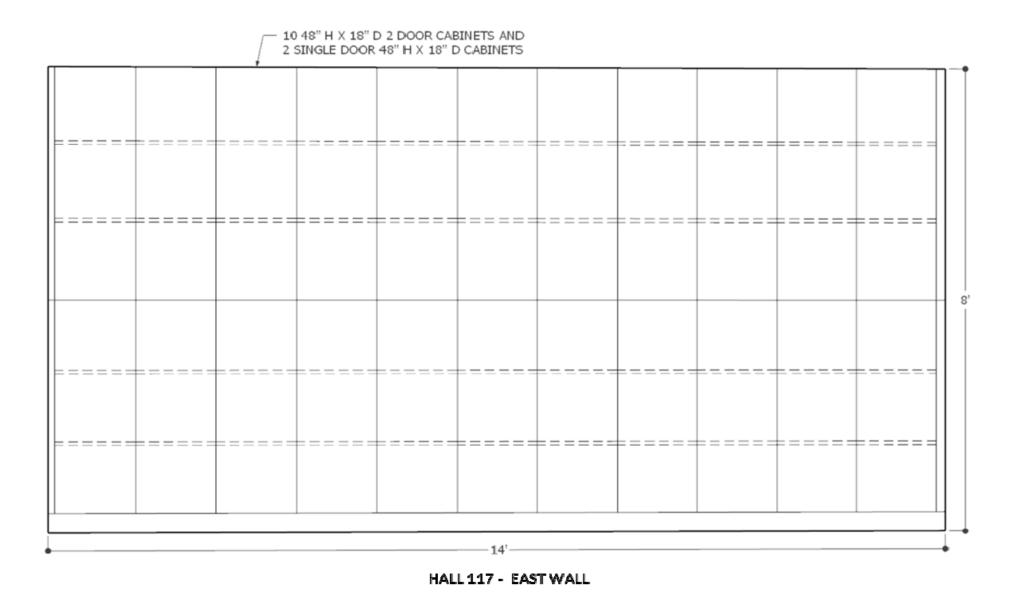
LOCKS TYPICAL CYLINDAR LOCKS ON ALL DOORS. ALL LOCKS WITHIN A ROOM TO BE KEYED ALIKE.

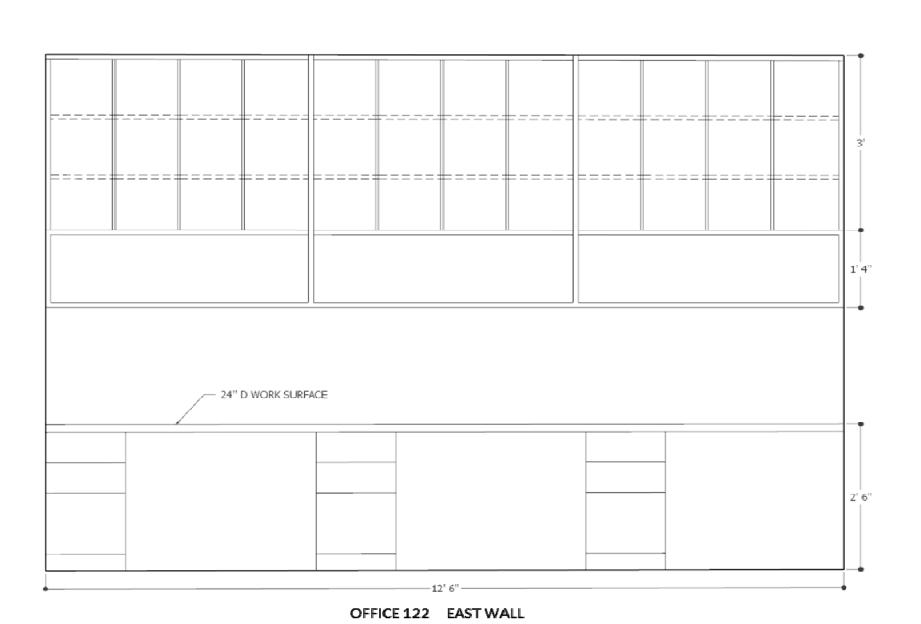
CABINET NOTES

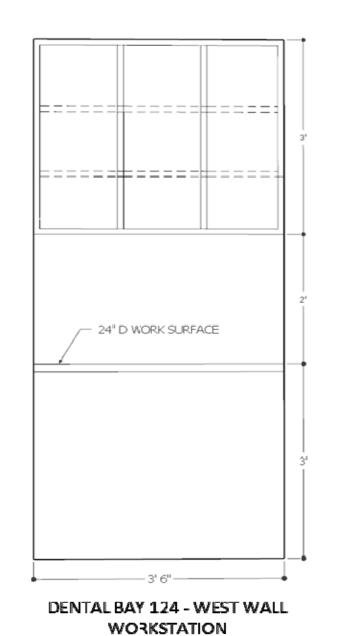
NATURAL STONE SLAB TO BE SELECTED BY DESIGNER

2









CABINETRY

MONTH	JUNE
DAY	2
YEAR	2023

ID 2.1

			PLUMBING FIXTURE SCHEDULE			
SYMBOL	FIXTURE	MANUFACTURER	FITTING	HW	CW	WASTE
P1	TWO PIECE TANK TYPE ADA WATER CLOSET	TOTO CST744EL OR EQUAL BY AMERICAN STANDARD OR KOHLER	TWO-PIECE VITREOUS CHINA TOILET WITH HIGH-PROFILE TANK, ELONGATED FRONT BOWL AND CHROME TRIP LEVER. 1.28 GPF. PROVIDE SC534 OPEN FRONT SEAT LESS COVER. ASME 112.19.2 COMPLIANCE. TOP OF SEAT SHALL BE 17-19 INCHES AFF FOR ADA. LEVER MOUNTED ON WIDE SIDE FOR ADA	-	1/2"	3'
P2	CDUNTER MOUNT LAVATORY	TOTO LT511. 4 OR EQUAL BY AMERICAN STANDARD OR KOHLER	VITREDUS CHINA SELF-RIMMING LAVATORY COMPLYING WITH ASME 112. 19. 2. MOUNT SO RIM IS 34 INCHES AFF AND 2 INCHES FROM FRONT EDGE FOR ADA. PROVIDE WITH LAV-GUARD PROTECTORS SUPPLY AND DRAIN LINES. USE MOEN 8430 FAUCET.	1/2"	1/2"	2'
P2A	BRUSH UP SINK	ELKAY ASANA RLR12	FAUCET: MDEN 8948	1/2 ′	1/2*	2'
P2B	BREAK SINK	ELKAY DLR2219104	FAUCET: MDEN 8707	1/2"	1/2*	2'
P2C	STERI SINK	ELKAY DLR221910	FAUCET: MDEN 8248	1/2"	1/2*	2'
P3	MOP SINK	FIAT MSB2424 OR EQUAL BY FLORESTONE OR STERN WILLIAMS	DUTSIDE DIMENSIONS OF 24X24X10. 10 INCHHIGH WALLS WITH NOT LESS THAN 1 INCH WIDE. STAINLESS STEEL DRAIN BODY DESIGNED TO PROVIDE FOR A CAULK CONNECTION OR QDC-3 JOINT TO A 3 INCH DRAIN PIPE. INCLUDE A COMBINATION DOME STRAINER AND LINT BASKET OF STAINLESS STEEL. PROVIDE 83O-AA CHROME PLATED SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4 INCH HOSE THREAD ON SPOUT.	1/2*	1/2*	3'
P4	DRINKING FOUNTAIN	ELKAY EZH20 LZSTL8WSSP	ADA COMPLIANT FOR ADULT AND CHILD, 8.0 GPH OF 50°F WATER @ 90°F AMBIENT, PROVIDE ACCESSORY APRON FOR ADA COMPLIANCE AS NECESSARY - WITH BOTTLE REFILLING STATION.	1	3%"	2'
P5	WASHING MACHINE SHUTDFF BOX	WATTS SERIES 2M2 DWB OR APPROVED EQUAL	SINGLE-HANDLE WASH MACHINE SHUTDFF VALVE. THE BALL-TYPE VALVE SHALL SIMULTANEOUSLY CONTROL THE FLOW OF BOTH HOT AND COLD WATER TO THE APPLIANCE AND BE FITTED IN A DECORATIVE RECESSED WALL BOX. THE DECORATIVE WALL BOX SHALL HAVE A PROVISION FOR 1-1/2 INCH AND 2 INCH DRAIN PIPING AND A DECORATIVE COVER. RATED FOR 150 PSI AND 180°F MAXIMUM.	1/2"	1/2"	3 ′
P5A	WATER HAMMER ARRESTOR	ZURN Z1700 SERIES OR EQUAL BY WATTS OR SIOUX CHIEF	INSTALL ON BRANCH LINES PER MFG'S INSTRUCTIONS. PROVIDE ACCESS PANEL WHERE NECESSARY WHERE LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS	-	VARIES	-
P6	REFRIGERATOR VALVE BOX	DATEY OR APPROVED EQUAL	HIGH IMPACT POLYSTYRENE BOX WITH 1/4 TURN BRASS BALL VALVE. COMPLIANT WITH NSF 61, SECTION 9.	-	1/2*	-
FS	FLOOR SINK	WATTS FS-740 OR EQUAL BY ZURN OR JR SMITH	12 INCH SQUARE X 8 INCH DEEP SANITARY FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR, LODGE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB DUTLET.	ı	-	3 ′
НВ	INTERIOR HOSE BIBB	WOODFORD MODEL 26 OR EQUAL BY ZURN OR MIFAB	PROVIDE CHECK VALVE AND ANTI-SIPHON PROTECTION IF NOT INTEGRAL TO UNIT		1/2"	
RPZ	1' RPZ BACKFLOW PREVENTER	WATTS LF909M1 QT DR EQUAL BY CONBRACO DR WILKINS	RPZ ASSEMBLY CONSISTING OF A PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES. THE ASSEMBLY SHALL INCLUDE TWO TIGHTLY CLOSING SHUTDFF VALVES BEFORE AND AFTER THE ASSEMBLY, TEST COCKS AND A PROTECTIVE STRAINER UPSTREAM OF THE FIRST SHUTOFF VALVE. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE 1013 AND AWWA C511	ı	1"	-
XT	EXPANSION TANK	AMTROL ST-5 OR EQUAL BY WATTS OR BELL & GOSSETT	INSTALL ON COLD WATER LINE BETWEEN WATER HEATER AND RPZ	-	3/4"	-
TMV	THERMOSTATIC MIXING VALVE	WATTS LFMMV OR EQUAL BY LAWLER OR LEDNARD VALVE	ASSE STANDARD 1069 OR 1070 APPROVED WITH 1/2 INCH FEMALE NPT INLET AND OUTLET CONNECTIONS, BRASS BODY, AND INTEGRAL MOUNTING HOLES. TAMPER RESISTANT THERMOPLASTIC ENCLOSURE. SINGLE REPLACEABLE CARTRIDGE DESIGN.	1/2"	1/2"	-
RP-1	HOT WATER RE-CIRCULATION PUMP	GRUNDFOS MODEL UP15-10B7 ATLC,	2 GPM AT 2.5 FT. HEAD WITH LINE CORD, TIMER AND AQUASTAT AND CHECK VALVE.	3/4"	3/4"	-
VAC-1	VACUUM PUMP (DRY)	SEE DENTAL DRAWINGS	AMALGAM SEPARATOR INSTALLED BY PLUMBER. COORDINATE REQUIREMENTS WITH DENTAL DRAWINGS.	1/2"		
CDMP-1	DENTAL AIR COMPRESSOR	SEE DENTAL DRAWINGS	COORDINATE REQUIREMENTS WITH DENTAL DRAWINGS			
FCO	FLOOR CLEANDUT	ZURN, WATTS, JR SMITH	EPDXY COATED CAST IRON FLOOR CLEANOUT WITH ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB INLET.	-	-	4"
WCD	WALL CLEANDUT	ZURN, WATTS, DR JR SMITH	CAST IRON CLEANOUT FERRULE WITH THREADED BRASS COUNTERSUNK CLEANOUT PLUG, STAINLESS STEEL ACCESS COVER, AND VANDAL PROOF STAINLESS STEEL SCREW	-	-	4"
FS	FLOOR SINK	ZURN FD-2375	6' DEEP CAST IRON PORCELAIN ENAMEL. ANTI-SPLASH W/ DOME STRAINER, DEEP SEAL TRAP, 3/4' GRATE AND TRAP PRIMER AS REQUIRED.	_	_	3'

LINETYPE LEGEND
COLD WATER SUPPLY
HOT WATER SUPPLY · ·
SANITARY SEWER LINE — — — — — — — —
VENT LINE
COMPRESSED AIR (1/2" COPPER)
MOTHER (OF DIO)

OO NOT TAP WATER

ELECTRIC WATER HEATER SCHEDULE											
MADIZ	MFG	MDDEL	TANK VOL	INPUT	RECOVERY	SET POINT	POWER		CONNEC	CTIONS	OPTIONS
MARK	Mru	MUVEL	GALS	kW	GPH @ 60° ∆T	• F	VOLTAGE	PHASE	HDT	COLD	חבווחוו
WH-1	RHEEM	ELDS40	38	4. 5	30	110	208	1	3/4	3/4	1-5

- PROVIDE GALVANIZED STEEL SAFETY PAN
- UL 174 LISTED
- PROVIDE ASME LISTED TEMPERATURE AND PRESSURE RELIEF VALVE MEET OR EXCEED ENERGY FACTOR REQUIREMENTS OF ASHRAE 90.1-2007
- 5. OR EQUAL BY A.O. SMITH, BRADFORD WHITE, OR STATE

			PLUMBING LINE	S SIZING TAI	BLE				
FIXTURE TYPE	DCCUPANCY	QTY	DRAINAGE FIX	XTURE UNITS	TURE UNITS WATER SUPPLY FIXTURE			RE UNITS	
			EACH	TOTAL	CW	HW	CW & HW	HW TOTAL	TOTAL
WATER CLOSET (FLUSH TANK)	PUBLIC	1	4. 00	4. 00	5. 00	0. 00	5. 00	0. 00	5. 00
LAVATORY	PUBLIC	6	1. 00	6. 00	1, 50	1. 50	2. 00	9. 00	12. 00
DRINKING FOUNTAIN	PUBLIC	2	0. 50	1. 00	0. 25	0. 00	0. 25	0. 00	0. 50
MOP SINK	PUBLIC	1	2. 00	2, 00	2, 25	2. 25	3, 00	2. 25	3. 00
CLOTHES WASHER	4	1	4. 00				TOTAL WESUs	11. 3	20. 5
DEMAND FIXTURE	GPM	QTY	TOTAL GPM				TOTAL DFU	13.	0
							GPM	15. 40	19. 60
						OTHER F	IXTURES' GPM	2. 00	2. 00
							TOTAL GPM	17. 40	21. 60
MINIMUM BUILDING DRAIN SIZE	4"								
MINIMUM WATER LINE SIZE	1'								

LINLTH L LLGLIND	
COLD WATER SUPPLY ———————————————————————————————————	
HOT WATER SUPPLY · ·	
SANITARY SEWER LINE — — — — — — — — —	
VENT LINE	
COMPRESSED AIR (1/2" COPPER)	
VACUUM (2" PVC) ————————————————————————————————————	

GENERAL PLUMBING NOTES:

- 1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS: PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
- FASC FIRE ALARM SYSTEM CONTRACTOR. . "PROVIDE" MEANS TO FURNISH AND INSTALL. THE PLUMBING CONTRACTOR SHALL ALSO INSTALL MATERIALS FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR.
- i. The PC shall be responsible for a complete and operational SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS. . ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED AT AN APPROVED LOCATION. PC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE
- PROPERTY OF THE PC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER. ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. ALL MATERIALS AND EQUIPMENT SHALL BEAR APPROVAL FROM UL OR AN APPROVED THIRD PARTY AGENCY. WHERE
- A MANUFACTURER AND MODEL NUMBER IS GIVEN, IT IS TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED. 6. THE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM
- CONFLICTS WITH THE ABOVE REQUIREMENTS. THE PC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER

THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS

- 8. DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS
- FOR DIMENSIONS.
- 9. THESE PLANS ARE DIAGRAMMATIC. THE PC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, FIXTURES, PIPING, ETC, TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE PC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONTINGENCIES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO THE OWNER. THE PC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. TO AVOID POTENTIAL CONFLICTS, COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. ALL
- UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO ANY DIGGING. 10. TRENCHING, COMPACTION, AND BACKFILL SHALL BE BY PC AND SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE NC PLUMBING CODE. UNDERGROUND LINES SHALL BE LOCATED SUCH THAT THEY DO NOT ENDANGER FOOTINGS OR FOUNDATION WALLS.
- 11. THE PC SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS OF RATED FLOOR/CEILING ASSEMBLIES AND RATED WALL ASSEMBLIES TO PRESERVE OR RESTORE THE FIRE RESISTANCE RATING. SEAL ALL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES SPECIFIC TO THE PROJECT.
- 12. SYSTEM TESTING SHALL BE PERFORMED BY PLUMBING CONTRACTOR IN ACCORDANCE WITH NORTH CAROLINA PLUMBING CODE, SECTIONS 312.2, 312.3, AND 312.5.
- 13. PC SHALL DISINFECT THE ENTIRE DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS. 14. AT THE COMPLETION OF WORK AND PRIOR TO ACCEPTANCE BY OWNER. THE PC SHALL CLEAN ALL EXPOSED FIXTURES, MATERIALS,
- AND EQUIPMENT UNDER THIS CONTRACT. 15. PC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

- 1. ALL OVERHEAD DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH 95/5 LEAD FREE SOLDER, AND ALL BELOW GRADE WATER PIPING SHALL BE TYPE K COPPER WITH NO JOINTS, ALL PIPING SHALL HAVE MANUFACTURER'S NAME AND THE APPLICABLE STANDARD TO WHICH IT WAS MANUFACTURED CLEARLY MARKED ON EACH LENGTH. PIPING SHALL COMPLY WITH ASTM B-88. USE BRAZED JOINTS ON ALL COPPER PIPING 1-1/2 INCH AND LARGER. ALL PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, USED IN THE WATER DISTRIBUTION SYSTEM SHALL HAVE A MAXIMUM LEAD CONTENT OF .25-PERCENT AND SHALL CONFORM TO NSF 61. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180°F. COLD WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 160 PSI AT 73.4°F. DO NOT INSTALL PEX OR CPVC PIPING IN RETURN AIR
- BALL VALVES SHALL HAVE BRASS BODY, FULL PORT, CHROME PLATED BALL, WITH TEFLON SEATS, 150 PSI WSP, AND COMPLY WITH MSS SP-110. GATE VALVES SHALL HAVE BRONZE BODY, CLASS 150, AND COMPLY WITH MSS SP-80, TYPE 2 STANDARD. VALVE BODY SHALL BE ASTM B 62, BRONZE WITH INTEGRAL SEAT AND UNION RING BONNET. ENDS SHALL BE THREADED OR SOLDER WITH COPPER-SILICON BRONZE STEM AND SOLID-WEDGE BRONZE DISC. INSTALL VALVES IN LOCATIONS THAT PERMIT EASY ACCESS WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS; PROVIDE ACCESS DOORS IF REQUIRED.

VALVES SHALL BE BY NIBCO, WATTS, OR STOCKHAM.

- 3. COLD WATER LINES SHALL BE INSULATED WITH 1/2 INCH THICK FIBROUS GLASS INSULATION WITH A FLAME DENSITY RATING LESS THAN 25 AND A SMOKE DENSITY RATING LESS THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. HOT WATER LINES UP TO 2 INCHES DIAMETER SHALL HAVE 1 INCH THICK INSULATION CONFORMING TO THE SAME STANDARD. PIPING LARGER THAN 2 INCHES SHALL RECEIVE 1-1/2 INCH THICK INSULATION. CLOSED CELL RUBBER INSULATION MEETING THE SMOKE AND FLAME RATINGS ABOVE MAY BE SUBSTITUTED FOR FIBROUS GLASS TYPE IF SO DESIRED. INSULATION INSTALLED ON PIPING OPERATING BELOW AMBIENT TEMPERATURES MUST HAVE A CONTINUOUS VAPOR RETARDER. ALL JOINTS, SEAMS AND FITTINGS MUST BE SEALED. ON SYSTEMS OPERATING ABOVE AMBIENT, THE BUTT JOINTS SHOULD NOT BE SEALED. ON COLD SURFACES WHERE A VAPOR SEAL MUST BE MAINTAINED, INSULATION SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN MOISTURE AND VAPOR RETARDER. ALL HANGERS, SUPPORTS, ANCHORS, OR OTHER PROJECTIONS SECURED TO COLD SURFACES SHALL BE INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION. ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OR FLOOR OPENINGS, OR SLEEVES EXCEPT WHERE FIRESTOP OR FIRESAFING MATERIALS ARE REQUIRED. INSULATION SHALL HAVE A FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP. WHITE-KRAFT PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS; CONFORMING TO ASTM C 1136 TYPE 1: VAPOR RETARDER; WITH A SELF-SEALING ADHESIVE. VERIFY THAT PIPING HAS BEEN TESTED, SURFACES ARE CLEAN AND DRY, AND ALL FOREIGN MATERIALS ARE REMOVED BEFORE
- ARMACELL, JOHNS-MANVILLE, OR OWENS-CORNING. ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIRFLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED. INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM C578 91. ALL INSULATION SHALL BE LOW-EMITTING WITH NOT GREATER THAN 0.05 PPM FORMALDEHYDE EMISSIONS. THE MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDEX FOR INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION IN WHICH THE BUILDING IS LOCATED.

APPLYING INSULATION MATERIALS. INSULATION SHALL BE BY KNAUF,

5. FAUCETS AND FIXTURE FITTINGS SHALL CONFORM TO ASME A112.18.1.

- FAUCETS AND FIXTURE FITTINGS THAT SUPPLY DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE REQUIREMENTS OF NSF 61, SECTION 9. FIXTURE FITTINGS, FAUCETS, AND DIVERTERS SHALL BE INSTALLED AND ADJUSTED SO THAT THE FLOW OF HOT WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT HAND SIDE of the fixture fitting.
- 6. BACKFLOW PREVENTION SHALL BE IN ACCORDANCE WITH SECTION 608.13 OF THE NC PLUMBING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS SHALL CONFORM TO ASSE 1013 OR AWWA C511. THE RELIEF OPENING SHALL DISCHARGE BY AIR GAP. AIR GAPS SHALL COMPLY WITH ASME A112.1.1 AND AIR GAP FITTINGS WITH ASME A112.1.3. DOUBLE CHECK VALVE ASSEMBLIES SHALL CONFORM TO ASSE 1015 OR AWWA C510. ACCESS TO BACKFLOW PREVENTERS SHALL BE PROVIDED AS SPECIFIED BY THE INSTALLATION INSTRUCTIONS OF THE APPROVED MANUFACTURER.
- 7. FOR BELOW GRADE SANITARY WASTE PIPING, PC SHALL USE SERVICE WEIGHT CAST IRON PIPE WITH COMPRESSION JOINTS (ASTM A 74). USE MINIMUM 2 INCH SIZE UNDERGROUND. SOLID WALL SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET TYPE PIPE FITTINGS (ASTM D 3311) MAY ALSO BE USED. DO NOT USE PVC PIPE FOR APPLICATIONS WHERE THE WASTE WATER TEMPERATURE EQUALS OR EXCEEDS 140°F OR IF THE BUILDING HEIGHT EXCEEDS 75 FEET. 8. FOR ABOVE GRADE SANITARY WASTE AND VENT PIPING, USE SERVICE WEIGHT CAST IRON NO-HUB TYPE WITH COUPLINGS (CISPI 301). SOLID WALL SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET TYPE FITTINGS (ASTM D 3311) MAY BE USED IF PERMITTED BY LOCAL CODE, EXCEPT IN BUILDINGS EXCEEDING 75 FEET IN HEIGHT. DO NOT INSTALL PVC IN RETURN AIR PLENUMS. ALL VENT AND BRANCH VENT
- PIPES SHALL BE SO GRADED AND CONNECTED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH SHALL BE INCREASED BY ONE NOMINAL SIZE FOR THE ENTIRE DEVELOPED LENGTH OF THE PIPE. 9. PC SHALL PROVIDE ALL WATER HEATERS (WATTAGE/INPUT AND CAPACITY AS NOTED IN SCHEDULE). ALL WATER HEATERS SHALL BE
- THIRD PARTY CERTIFIED; PROVIDE PANS FOR WATER HEATERS IN ACCORDANCE WITH 504.7 OF THE NC PLUMBING CODE. ELECTRICAL CONNECTIONS SHALL BE BY ELECTRICAL CONTRACTOR, PC SHALL COORDINATE WITH EC ON ELECTRICAL CHARACTERISTICS OF THE EQUIPMENT PROVIDED.
- 10. ALL PUMPS SHALL BE RATED FOR TRANSPORT OF POTABLE WATER. PUMPS IN AN INDIVIDUAL WATER SUPPLY SYSTEM SHALL BE CONSTRUCTED AND INSTALLED SO AS TO PREVENT CONTAMINATION FROM ENTERING THE WATER SUPPLY SYSTEM.
- 1. EXTEND DOMESTIC WATER PIPE AS INDICATED ON THE PLANS AND INSTALL DOMESTIC WATER DISTRIBUTION PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRING THE SAME. WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5 FEET OF UNDISTURBED OR COMPACTED EARTH IN ACCORDANCE WITH 603.2. PROVIDE ALL FITTINGS, VALVES, AND OTHER ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. ALL DOMESTIC WATER PIPING SHALL BE CONCEALED IN FINISHED AREAS. ANY OPEN ENDS SHALL BE PROTECTED UNTIL FINAL CONNECTIONS ARE MADE.
- 2. ABOVE GRADE DOMESTIC WATER PIPING SHALL BE SLOPED AT A MINIMUM OF 1/32 INCH PER FOOT AND ARRANGED TO DRAIN AT LOW POINTS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. ROUTE PIPING IN AN ORDERLY MANNER-PARALLEL OR PERPENDICULAR TO WALLS WHEN POSSIBLE-AND MAINTAIN GRADIENT. EACH SUPPLY Branch line serving more than one fixture shall have a SHUTOFF VALVE INSTALLED TO ISOLATE ALL FIXTURES AND PIECES OF EQUIPMENT SUPPLIED BY THE BRANCH LINE. THE SHUTOFF VALVE SHALL BE LABELED AND LOCATED AS CLOSE TO THE CONNECTION TO THE SUPPLY MAIN AND RISER AS POSSIBLE. PROVIDE A FULL-OPEN VALVE ON THE BASE OF EVERY WATER RISER PIPE AND ON THE TOP OF EVERY WATER DOWN-FEED PIPE. PROVIDE VALVE HANDLE
- EXTENSIONS AS NECESSARY FOR INSULATION. 3. IT SHALL BE THE RESPONSIBILITY OF THE PC TO SUSPEND AND SUPPORT ALL PIPING SYSTEMS FOLLOWING RECOGNIZED ENGINEERING PRACTICES AND USING STANDARD, COMMERCIALLY ACCEPTED PIPE HANGERS AND SUSPENSION EQUIPMENT. ALL FIXTURES, DEVICES, AND EQUIPMENT SHALL BE SECURELY MOUNTED TO THE BUILDING STRUCTURE AND SHALL NOT RELY ON CEILING OR WALL SURFACES FOR SUPPORT. THE SUPPORT ATTACHMENT SHALL SUPPORT THE WEIGHT OF THE FIXTURE OR EQUIPMENT PLUS THE WEIGHT OF THE SUPPORT ATTACHMENT ITSELF. SUPPORT FROM THE TOP CHORD OF THE ROOF JOISTS, GIRDERS, AND BEAMS. THE BOTTOM CHORD IS NOT TO BE USED FOR EQUIPMENT AND PIPING SUPPORT. HANGERS SHALL NOT BE ATTACHED TO CORRUGATED STEEL DECKING. USE STEEL HANGERS FOR STEEL AND PLASTIC PIPE AND COPPER OR
- COPPER-PLATED HANGERS FOR COPPER PIPE. PROVIDE PROTECTION FOR COPPER PIPING IN CONTACT WITH DISSIMILAR METALS. WHERE COPPER PIPING IS SUPPORTED ON HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS. IN GENERAL, HANGERS SHALL BE CLEVIS TYPE, STANDARD WEIGHT. FOR PIPING, HANGER SPACING SHALL BE IN ACCORDANCE WITH TABLE 308.5 OF THE NC PLUMBING CODE. HANGERS AND ACCESSORIES SHALL BE GRINNEL, MASON, OR B-LINE. 4. SLEEVE ALL PIPES PASSING THROUGH PARTITIONS, WALLS, AND
- FLOORS. SLEEVES IN FLOORS AND INTERIOR WALLS OF POURED IN PLACE CONCRETE, BRICK, TILE, OR MASONRY SHALL BE SCHEDULE 40 STEEL PIPE, MACHINE CUT. SLEEVES IN GYPSUM BOARD WALLS SHALL BE 22 GAUGE, ROLLED GALVANIZED SHEET METAL. TACK WELD ON THE LONGITUDINAL SEAM. PROVIDE SLEEVES WHERE PIPES PASS THROUGH FLOORS AND WALLS ABOVE AND BELOW CEILINGS. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELD SPLIT SLEEVES TOGETHER. SLEEVES IN WALLS SHALL BE INSTALLED FLUSH WITH THE WALL. SLEEVES IN FLOORS SHALL EXTEND 3/4 INCH ABOVE THE FLOOR-EXCEPT THEY SHALL BE FLUSH FOR 2 HOUR RATED FLOORS-AND SHALL BE FLUSH WITH THE STRUCTURE BELOW. EACH SLEEVE SHALL HAVE AN INSIDE DIAMETER 1 INCH LARGER THAN THE OUTSIDE DIAMETER OF THE COVERING OF EACH COVERED PIPE TO ALLOW CONTINUOUS INSULATION—BUT NOT LESS THAN TWO PIPE SIZES LARGER THAN EACH UNCOVERED. ANNULAR SPACES BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR CAULKED
- IN AN APPROVED MANNER. 5. THE TOP OF WATER PIPES INSTALLED BELOW GRADE OUTSIDE THE BUILDING SHALL BE BELOW THE FROST LINE OR A MINIMUM OF 12 INCHES BELOW FINISHED GRADE WHICHEVER IS GREATER. WATER PIPING INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED UTILITY ROOM OR UNCONDITIONED ATTIC SHALL BE INSULATED TO A MINIMUM OF R6.5
- DETERMINED IN ACCORDANCE WITH ASTM C 177. 6. HOT WATER PROVIDED TO PUBLIC HAND-WASHING FACILITIES/LAVATORIES SHALL BE TEMPERED WATER DELIVERED THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3. 7. INSULATE ALL EXPOSED WASTE AND SUPPLY PIPING UNDER LAVATORIES, SINKS, AND ELECTRIC WATER COOLERS WITH THE HANDI-LAV GUARD INSULATION KIT BY TRUEBRO OR EQUAL.

8. POTABLE WATER OUTLETS SHALL BE PROTECTED FROM BACKFLOW IN

- ACCORDANCE WITH 608.15. PRESSURE TYPE VACUUM BREAKERS SHALL CONFORM TO ASSE 1020 AND SPILPROOF VACUUM BREAKERS SHALL COMPLY WITH ASSE 1056. HOSE-CONNECTION VACUUM BREAKERS SHALL CONFORM TO ASSE 1011, ASSE 1019, ASSE 1035, OR ASSE 1052. CONNECTIONS TO BEVERAGE DISPENSERS, COFFEE MACHINES, AND NON-CARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED BY A BACKFLOW PREVENTER IN ACCORDANCE WITH ASSE 1022. 9. THE PC SHALL INSTALL WATER HAMMER ARRESTORS ON BRANCH LINES WITH QUICK CLOSING VALVES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE
- 10. THE PC SHALL PROVIDE CHECK VALVES AT ALL FIXTURES WITH THREADED OUTLETS AS REQUIRED BY CODE. TRAP PRIMERS SHALL BE

- PROVIDED AS SHOWN ON THE PLANS OR AS REQUIRED. 11. ADJUST STOPS AND VALVES FOR INTENDED FLOW RATE TO FIXTURES WITHOUT SPLASHING, NOISE, OR OVERFLOW. 12. BEFORE COMMENCING WORK, CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS, AND VERIFY THESE CAN
 - BE PROPERLY CONNECTED TO WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING. ONCE INVERTS AND FALL HAVE BEEN ESTABLISHED, EXTEND SANITARY SEWER PIPING AS INDICATED AND INSTALL ALL DRAINS, STACKS, VENTS, FLOOR DRAINS, AND CLEANOUTS NECESSARY FOR A COMPLETE INSTALLATION. 13. ALL SANITARY SEWER PIPING IS BELOW GRADE OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING IS ABOVE THE
 - FREEZING PER 305.6.1. WASTE AND SOIL LINES LEAVING THE BUILDING MUST HAVE A MINIMUM COVER OF 3 INCHES. 14. SOIL AND WASTE LINES 2-1/2 INCHES AND SMALLER SHALL BE SLOPED AT 1/4 INCH PER FOOT MINIMUM. SOIL AND WASTE LINES 3 INCHES TO 6 INCHES IN DIAMETER SHALL BE SLOPED AT 1/8 INCH

WASTE PIPING SHALL BE INSTALLED TO PROVIDE PROTECTION AGAINST

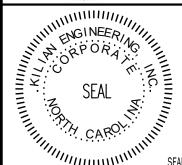
- PER FOOT MINIMUM. 15. FOR WATER CLOSET WASTE CONNECTIONS, A 4 INCH BY 3 INCH CLOSET BEND SHALL BE ACCEPTABLE. WHERE A 3 INCH BEND IS
- UTILIZED ON WATER CLOSETS, A 4 INCH BY 3 INCH FLANGE SHALL BE INSTALLED TO RECEIVE THE FIXTURE HORN. 16. FOR PLASTIC PIPE SIZES GREATER THAN 6 INCHES, AND OTHER PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING
- BACKFILL AND OTHER SUITABLE METHODS AS SPECIFIED BY THE COUPLING MANUFACTURER SHALL BE UTILIZED. 17. BASES OF STACKS SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, VIRGIN OR COMPACTED EARTH, OR OTHER SUITABLE MATERIAL TO SUPPORT THE WEIGHT OF THE PIPING. 18. HORIZONTAL DRAIN PIPES SHALL HAVE CLEANOUTS IN ACCORDANCE WITH 708.10. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH A MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT ALL CLEANOUTS
- FOR RODDING OF DRAINAGE SYSTEM. INSTALL FLOOR CLEANOUTS AT AN ELEVATION TO ACCOMMODATE FINISHED FLOOR. EVERY CLEANOUT SHALL BE INSTALLED TO ALLOW CLEANING IN THE DIRECTION OF FLOW OF THE DRAINAGE PIPE OR AT RIGHT ANGLES THERETO. CLEANOUTS ON 6 INCH AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 INCHES FOR RODDING. 19. DRAINAGE PIPING FOR FUTURE FIXTURES SHALL TERMINATE WITH AN
- APPROVED CAP OR PLUG. 20. AIR ADMITTANCE VALVES SHALL BE INSTALLED AFTER THE DWV TESTING REQUIRED BY SECTIONS 312.2 AND 312.3. PROVIDE ACCESS TO ALL AIR ADMITTANCE VALVES PER CODE. INSTALLATION OF ALL AIR ADMITTANCE VALVES SHALL CONFORM TO SECTION 918 OF THE NC PLUMBING CODE. AIR ADMITTANCE VALVES SHALL CONFORM TO ASSE
- 1050 OR 1051. 21. INDIRECT WASTE PIPING THAT EXCEEDS 2 FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FEET IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE
- 22. THE PC SHALL PROVIDE UNIONS FOR DISASSEMBLY AND SERVICE OF ALL FIXTURES AND OTHER RELEVANT PLUMBING EQUIPMENT. UNIONS SHALL BE GROUND-JOINT WITH BRASS SEAT. PROVIDE INSULATING UNIONS AT EACH JUNCTION OF DISSIMILAR MATERIALS.
- 23. THE PC SHALL ACCURATELY ROUGH-IN ALL FIXTURES ACCORDING TO MANUFACTURER'S INSTALLATION DIMENSIONS AND INSTRUCTIONS. OFFSET ADAPTERS AND FLEXIBLE CONNECTORS ARE NOT ACCEPTABLE. FLUSH HANDLES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS FOR ADA COMPLIANCE. INSTALL EACH FIXTURE WITH TRAP EASILY REMOVABLE FOR SERVICING AND CLEANING. SEAL FIXTURES TO WALL AND FLOOR SURFACES WITH SEALANT. SOLIDLY ATTACH WATER CLOSETS TO FLOOR WITH LAG SCREWS. SEAL ALL SELF-RIMMING LAVATORIES AND SINKS (VITREOUS CHINA AND STAINLESS STEEL) WITH A COMMERCIAL GRADE PLUMBER'S PUTTY OR ACRYLIC LATEX CAULK APPLIED TO THE UNDERSIDE OF THE FIXTURE RIM IN A GENEROUS AMOUNT SO THAT WHEN FIXTURE IS SET, SEALANT SHALL OOZE OUT.
- 24. ALL VENT THRU THE ROOF (VTR) PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PC SHALL PROVIDE FLASHING MATERIAL REQUIRED FOR VTRS, JOINTS AT THE ROOF AND AROUND VENT PIPES, SHALL BE MADE WATER TIGHT BY THE USE OF LEAD, COPPER, GALVANIZED STEEL, ALUMINUM, OR OTHER APPROVED FLASHINGS OR FLASHING MATERIAL. MAINTAIN MINIMUM 10 FEET FROM ALL OUTSIDE AIR INTAKES.
- 25. INSTALL FULL OPEN VALVES PER NC PLUMBING CODE 606.1. ON THE MAIN WATER LINE INTO THE BUILDING. INSTALL CUT OFF VALVES PER NCPC 606.2

(1) **(**) CEILING OR WITHIN WALLS UNLESS OTHERWISE NOTED, SOIL AND

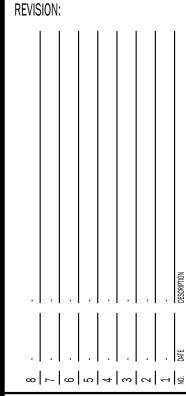


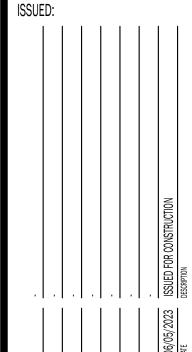
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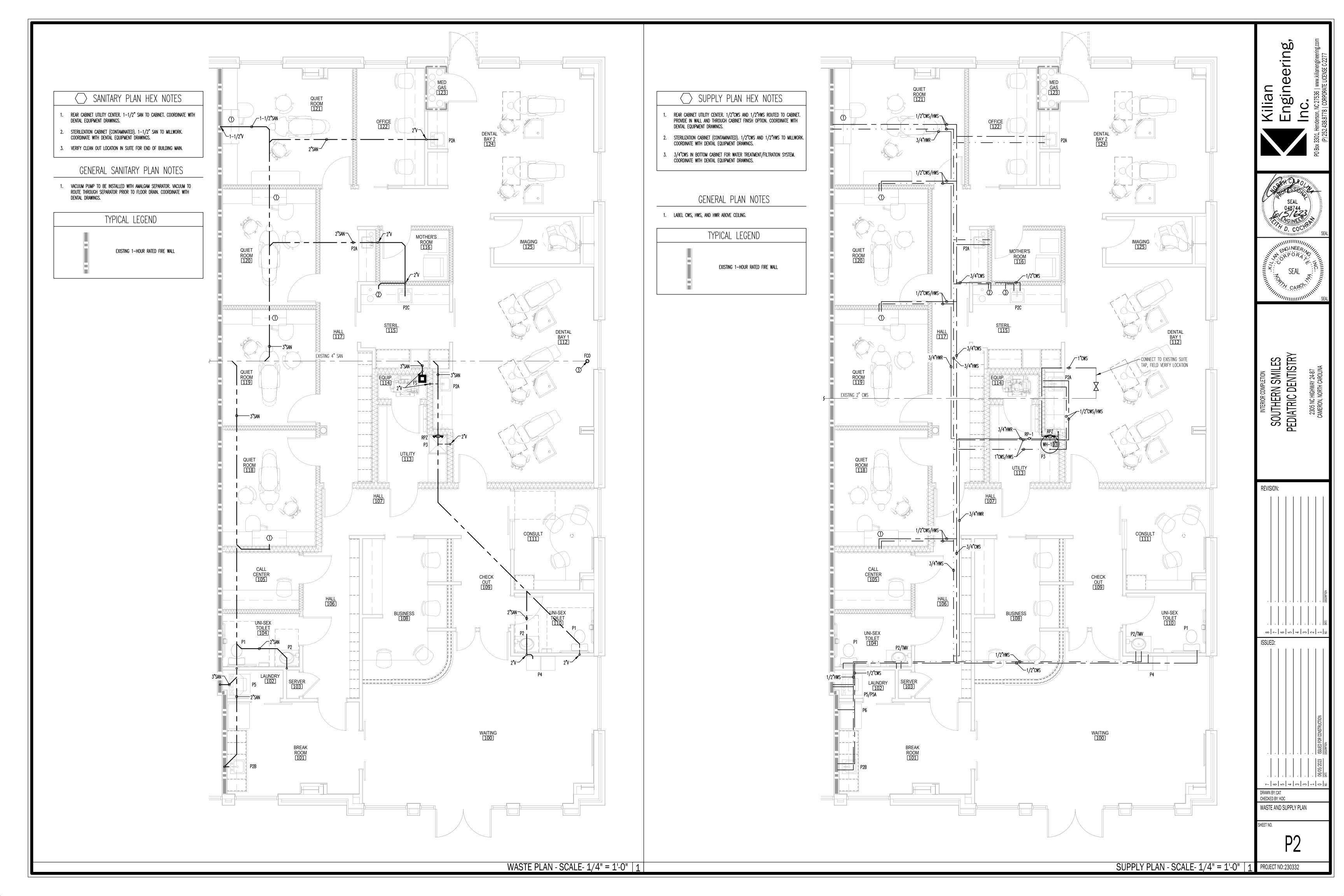
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SCHEDULES

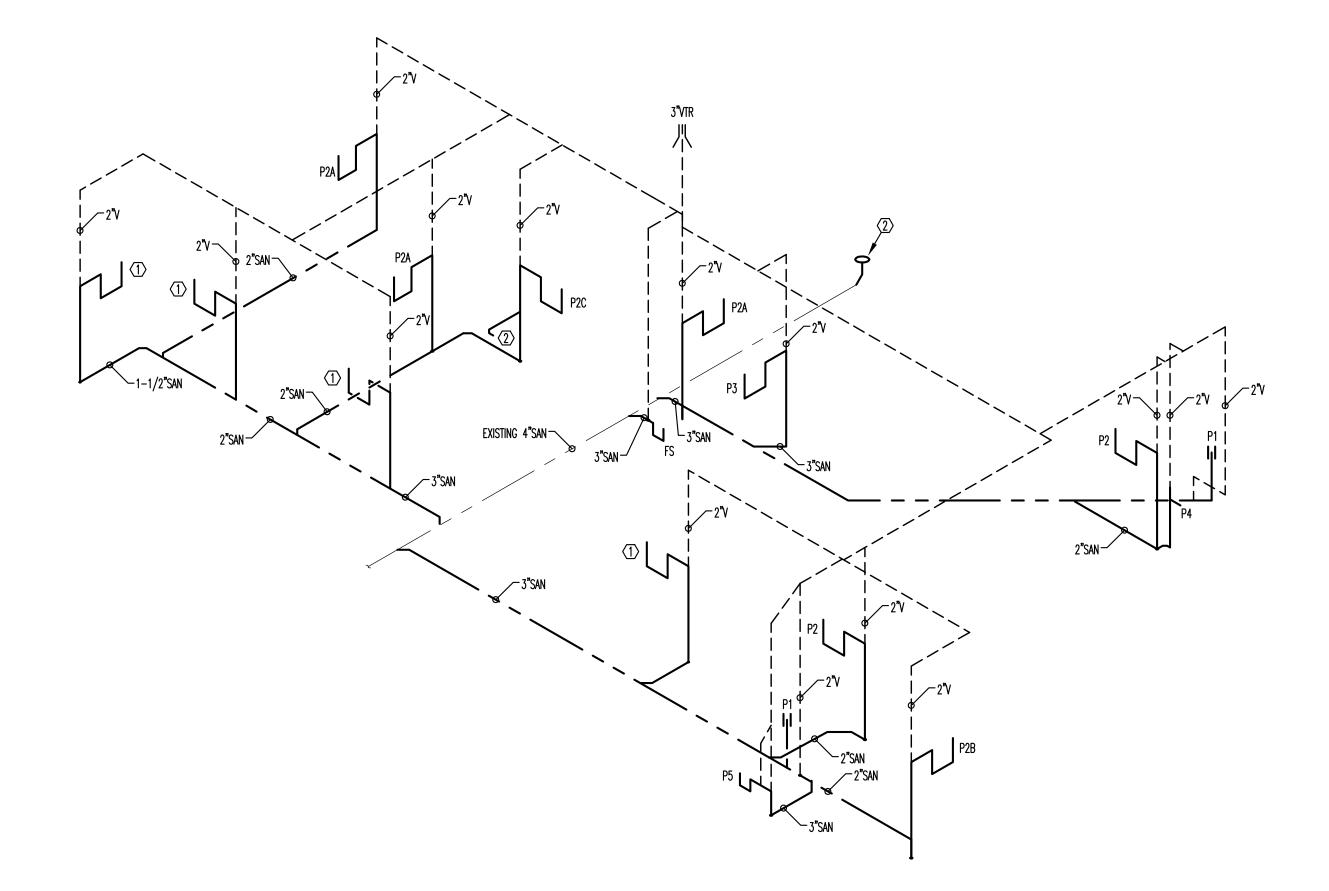


SANITARY PLAN HEX NOTES

- REAR CABINET UTILITY CENTER. 1-1/2" SAN TO CABINET. COORDINATE WITH DENTAL EQUIPMENT DRAWINGS.
- STERILIZATION CABINET (CONTAMINATED). 1-1/2" SAN TO MILLWORK. COORDINATE WITH DENTAL EQUIPMENT DRAWINGS.
- VERIFY CLEAN OUT LOCATION IN SUITE FOR END OF BUILDING MAIN.

GENERAL SANITARY PLAN NOTES

VACUUM PUMP TO BE INSTALLED WITH AMALGAM SEPARATOR. VACUUM TO ROUTE THROUGH SEPARATOR PRIOR TO FLOOR DRAIN. COORDINATE WITH DENTAL DRAWINGS.

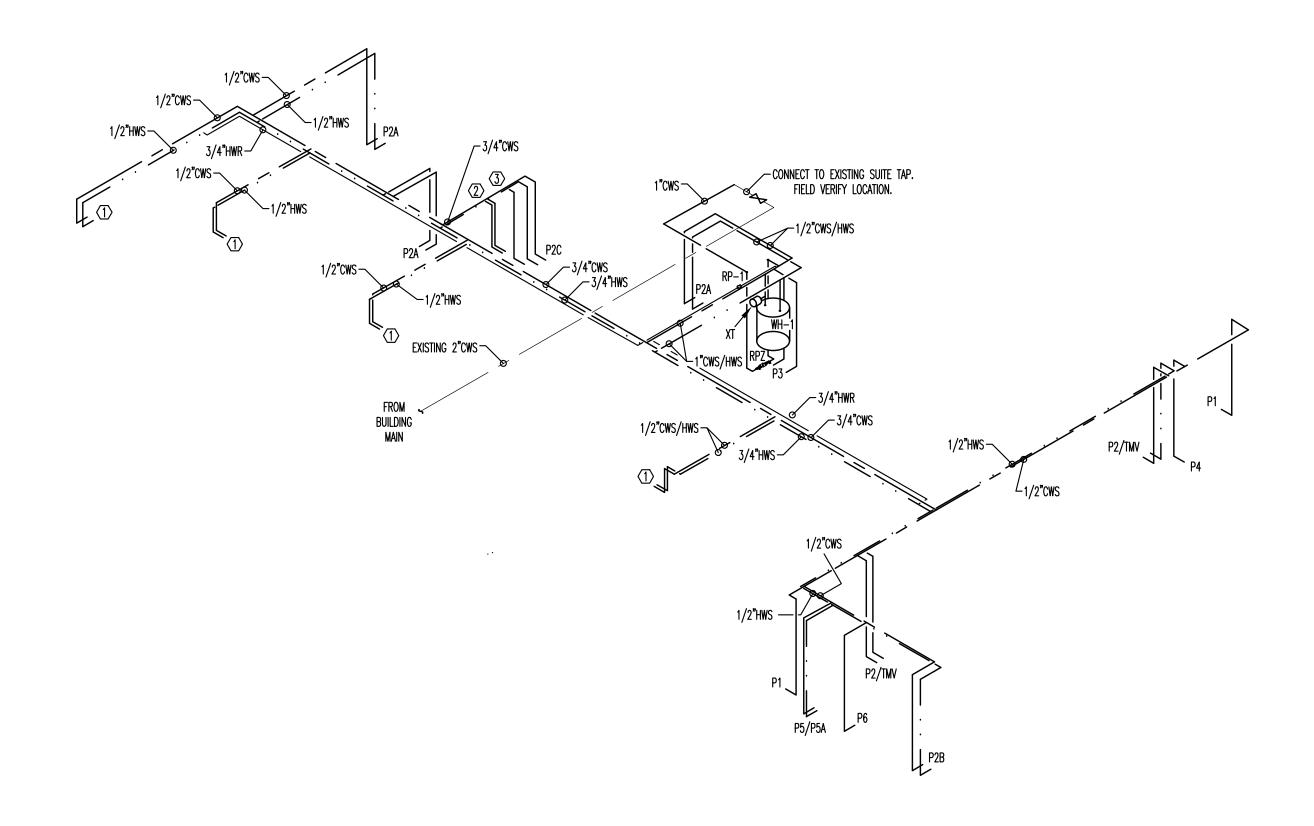


SUPPLY PLAN HEX NOTES

- REAR CABINET UTILITY CENTER. 1/2"CWS AND 1/2"HWS ROUTED TO CABINET. PROVIDE IN WALL AND THROUGH CABINET FINISH OPTION. COORDINATE WITH DENTAL EQUIPMENT DRAWINGS.
- STERILIZATION CABINET (CONTAMINATED). 1/2"CWS AND 1/2"HWS TO MILLWORK. COORDINATE WITH DENTAL EQUIPMENT DRAWINGS.
- 3. 3/4"CWS IN BOTTOM CABINET FOR WATER TREATMENT/FILTRATION SYSTEM. COORDINATE WITH DENTAL EQUIPMENT DRAWINGS.

GENERAL SUPPLY PLAN NOTES

1. LABEL CWS, HWS, AND HWR ABOVE CEILING.

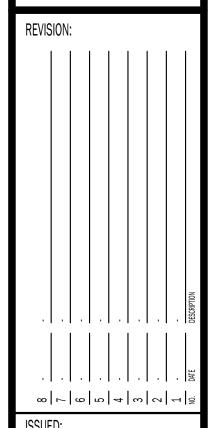


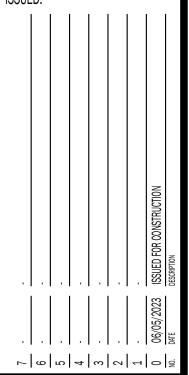
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SOUTHERN SMILES
PEDIATRIC DENTISTRY

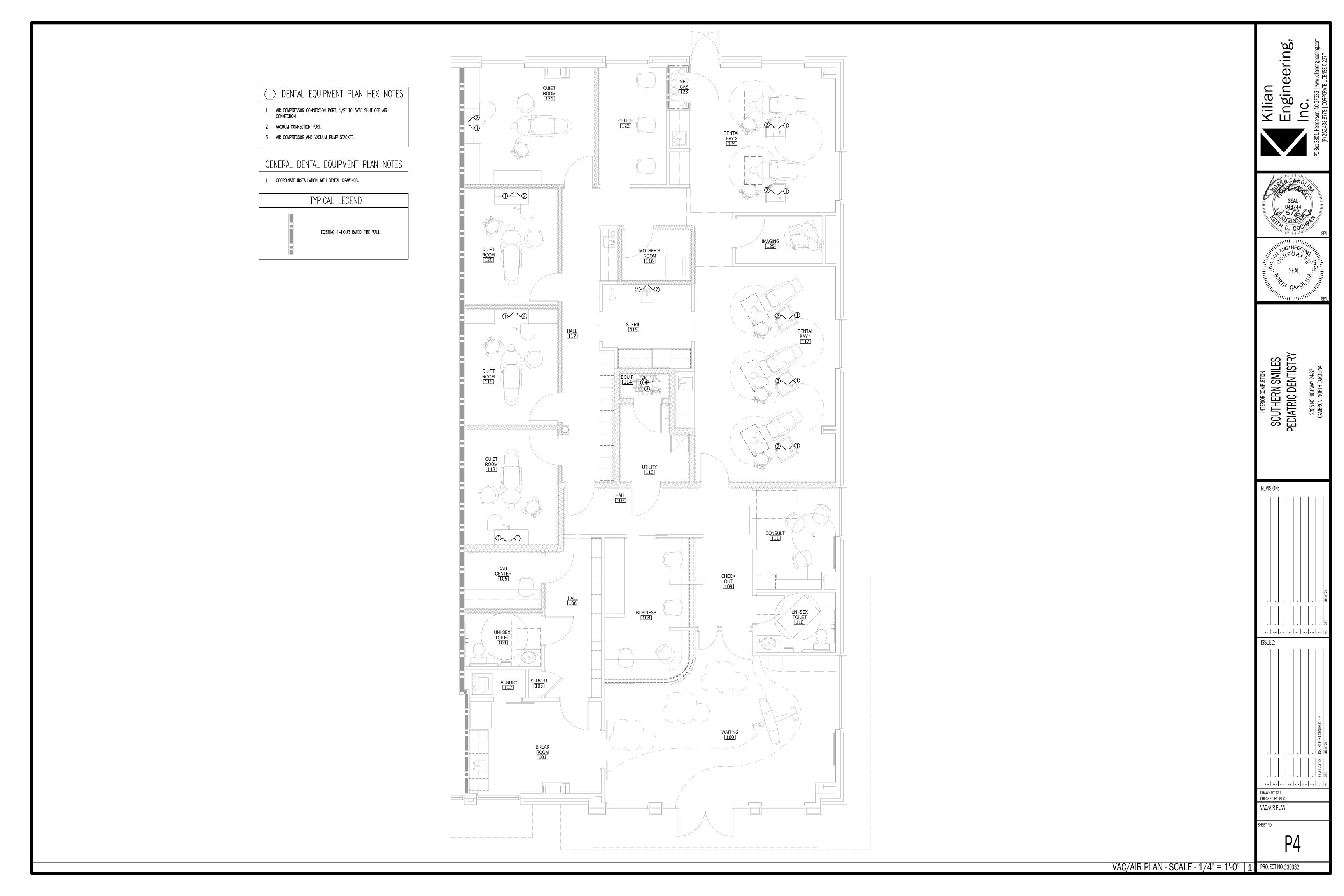


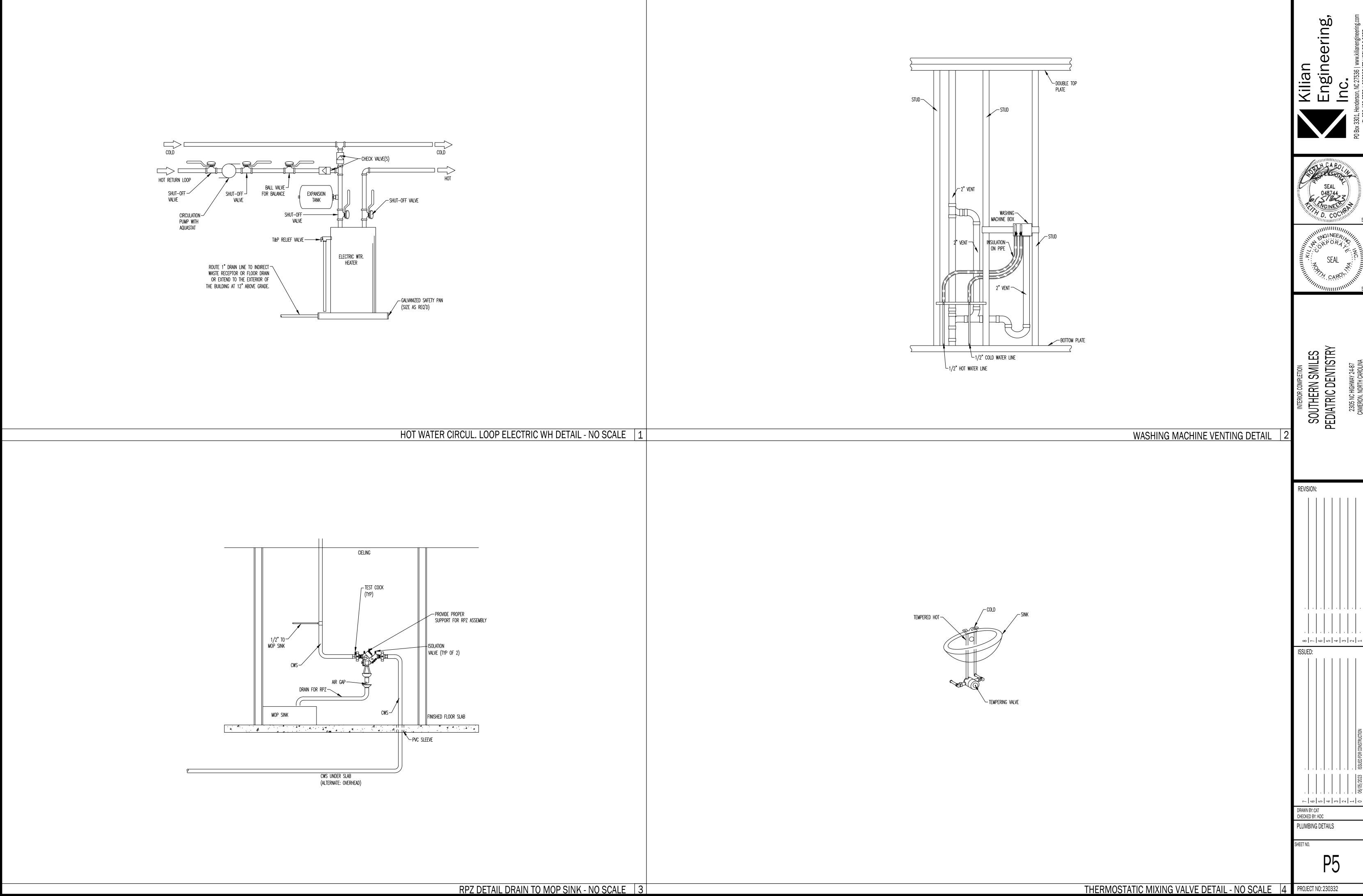


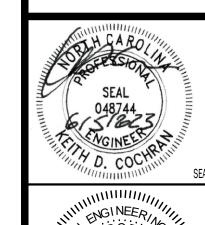
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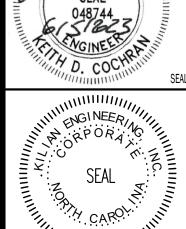
WASTE RISER - NOT TO SCALE | 1

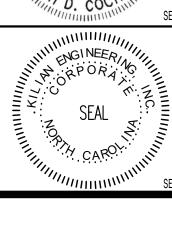
SUPPLY RISER - NOT TO SCALE 2 PROJECT NO: 230332











			SPL	T2Y2 TI.	EM HEAT PUMP	SCHEDULE								
		NDMINAL	REF LINES		MOTORS		EFFICIENCIES		S	ELECTRICAL		-	WEIGHT	
MARK	MFG / MODEL #	CAPACITY	CVS	1.10	COMPRESSOR	COND. FAN	SEER	COP	псрс	V /DU	MCA	l RE	REMARKS	
		TONS	GAS	LIQ	ND.	ND.	EER	17 °	HSPF	V/PH	MLA	MDCP	LBS	
HP-1, 2	TRANE 4TWR4060D1000	5	1-1/8	3/8	1	1	14/11.5	2. 4	8. 2	208/1	34	60	295	1, 2, 4, 9, 10, 12-14

						SPLIT	SYSTEM AI	R HANDLER SCHEI	ULE								
		NOMINAL	AIR	FLOW	FAN MO	TORS	H	HEATING CAPACITY	'	COOLI	NG CAPA	CITY		ELECTRICAL		WEIGHT	
MARK	MFG / MODEL #	CAPACITY	SUPPLY	MIN. DA	SUPPLY	ESP	DUTPUT	AUX ELEC I	IEAT	EAT WB/DB	TOTAL	SENSIBLE	V/PH	MCA	MOCP	WEIGHT	REMARKS
		ZNDT	CFM	CFM	ND.	in wg	MBH	kW	STAGES	* F	MBH	MBH	V /FП	MCH	MUCF	LBS	
AHU-1, 2	TRANE TAM4A0C60S-1S	5	2000	SEE TABLE	1	. 25	36. 4	5. 76	1	67/80	58. 3	44. 4	208/1	44	45	159	3, 5, 6, 7, 8, 9, 11-14

PROVIDE CONCRETE PAD FOR UNIT TO SIT ON PROVIDE HEAT STRIP DUTDOOR TEMPERATURE LOCKDUT TO PREVENT SUPPLEMENTAL HEAT OPERATION IN RESPONSE TO THE

THERMOSTAT BEING CHANGED TO A WARMER SETTING. SET NO LOWER THAN 35°F AND NO HIGHER THAN 40°F PROVIDE HINGED ACCESS DOORS

PROVIDE HAIL GUARDS FOR COIL

REPLACE ALL FILTERS AT PROJECT'S COMPLETION

PROVIDE CO2 SENSOR FOR MODULATING OUTSIDE AIR PROVIDE MOTORIZED OUTSIDE AIR DAMPER. CONNECT TO FAN RELAY AT AIR HANDLER

PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH NIGHT-TIME SET BACK

CONSULT MANUFACTURER ON LINE SET LENGTHS EXCEEDING 60FT

10. PROVIDE HARD START KIT 11. HEATER RATED AT 208V

12. OR EQUAL BY CARRIER, LENNOX, OR YORK

13. ANY EQUIPMENT SUBSTITUTIONS MUST EQUAL OR EXCEED EFFICIENCIES LISTED (RATINGS PER ARI)

14. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES

		EXHAUS	T FAN SCHEDUL	E				
MARK	MFG / MODEL #	TYPE	ESP (in WG)	CFM	VOLT/PH	FLA	SONES	NOTES
EF-1-5	GREENHECK SP-B110	CEILING	0. 40	70-96	120/1	1. 14	2. 0	1-4
EF-6	GREENHECK SP-A410	CEILING	0, 40	265	120/1	1. 75	3, 5	1-4

PROVIDE WITH PITCHED ROOF CURB & CAP FOR FLAT OR SLOPED ROOF, OR HOODED WALL WITH

BACKDRAFT DAMPER CAP AS APPLICABLE. PROVIDE WITH SQUARE TO ROUND DUCT ADAPTER AS NECESSARY

OR EQUAL BY LOREN COOK OR PENNBARRY OR TWIN CITY

4. PROVIDE THERMOSTATIC SWITCH A NOTED ON PLAN VIEW

THERMOSTAT LOCATION MOUNT AT 48" A.F.F.

(CO) CO SENSOR LOCATION. INSTALL NEXT TO THERMOSTAT

			RE	GISTER & GR	ILLE SCHEDULE	
MARK	MFG	MODEL #	SIZE	MOUNTING	DESCRIPTION	NOTES
A	HART & COOLEY	2VH	24X24	LAY-IN	4-WAY DIFFUSER, BRIGHT WHITE	1-2
В	HART & COOLEY	2VH	12X24	LAY-IN	4-WAY DIFFUSER, BRIGHT WHITE	1-2
С	HART & COOLEY	LS	4X48	FLUSH	LINEAR DIFFUSER WITH CONTROL GRID & DAMPER	1
R1	HART & COOLEY	94AT	24X24	LAY-IN	STEEL, LAY IN, RETURN GRILLE	1
R2	HART & COOLEY	94AT	12X24	LAY-IN	STEEL, LAY IN, RETURN GRILLE	1

OR EQUAL BY PRICE, METAL-AIRE, CARNES, TITUS OR NAILOR. 2. PROVIDE WITH FOIL LINED, MOLDED INSULATION BLANKET.

HANICAL	SYSTEM,	SERVICE	SYSTEMS,	AND	EQUIPMENT	

METHOD OF COMPLIANCE THERMAL ZONE	PRESCRIPTIVE ZDNE 3A
EXTERIOR DESIGN CONDITIONS HEATING DESIGN DRY BULB COOLING DESIGN DRY BULB COOLING DESIGN WET BULB	22. 7* F 95. 2* F 75. 4* F
INTERIOR DESIGN CONDITIONS HEATING DESIGN DRY BULB COOLING DESIGN DRY BULB COOLING RELATIVE HUMIDITY	70° F 75° F 50%
HEATING LOAD:	56, 358 BTU/H
SENSIBLE COOLING LOAD: LATENT COOLING LOAD:	87, 793 BTU/H 15, 756 BTU/H
MECHANICAL SPACING CONDITIONING SYSTEM: UNITARY DESCRIPTION OF UNIT(S) BOILER TOTAL BOILER OUTPUT CHILLER TOTAL CHILLER CAPACITY	AIR COOLED DX (2) 5T HP SPLIT SYSTEM N/A N/A N/A N/A
EQUIPMENT EFFICIENCIES:	SEE SCHEDULES
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS):	SEE SCHEDULES

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE. THE MECHANICAL DESIGN FOR THIS BUILDING COMPLIES WITH MECHANICAL AND EQUIPMENT REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE AND 2018 NORTH CAROLINA ENERGY CONSERVATION

	Ventilation Calculati	on (SOUTHERN SMILES F	PEDIATRIC D	ENTISTRY)				
Room Name(s)	Zone Type	Area (sq.ft.)	Rp	Ra	Default Occupancy	Pz	Ez	Airflow to Zone (cfm
WAITING	Main Entry/Lobby	370	5	0.06	10	3.70	0.8	625
BREAKROOM	Office Space	135	5	0.06	5	0.68	0.8	200
TOILET 104/110	N/A	100	0	0	0	0.00	0.8	100
BUSINESS	Reception	149	5	0.06	30	4.47	0.8	200
CHECKOUT/HALL 106/107	Corridors	261	0	0.06	0	0.00	0.8	275
CONSULT 111	Office Space	89	5	0.06	5	0.45	0.8	125
CALL CENTER	Office Space	50	5	0.06	5	0.25	0.8	80
QUIET ROOM 118-121	Office Space	546	5	0.06	5	2.73	0.8	700
DENTAL BAY 1 & 2	Office Space	616	5	0.06	5	3.08	0.8	850
UTILITY	Storage	55	0	0.12	0	0.00	0.8	100
HALL 117	Corridors	196	0	0.06	0	0.00	0.8	245
STERIL.	Science Lab	81	10	0.18	25	2.03	0.8	150
MOTHER'S ROOM	Office Space	41	5	0.06	5	0.21	0.8	100
OFFICE	Office Space	91	5	0.06	5	0.46	0.8	150
IMAGING	Office Space	46	5	0.06	5	0.23	0.8	100

Maximum Zp:

0.29025

K-12 School? 8.0 Actual System Population:

Uncorrected Intake 399 cfm 498 cfm **Outdoor Air Intake** 12% Percent of Unit Air

GENERAL MECHANICAL NOTES:

1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS: PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,

FASC - FIRE ALARM SYSTEM CONTRACTOR. 2. "PROVIDE" MEANS TO FURNISH AND INSTALL. MC SHALL ALSO INSTALL MATERIALS 12. THE MC SHALL PROVIDE ALL REFRIGERATION PIPING, ALL PIPE AND FITTINGS

NECESSARY FOR A COMPLETE INSTALLATION. 3. THE MC SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATING SYSTEM AS

DESCRIBED BY THESE PLANS AND SPECIFICATIONS. 4. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE CONTRACTOR AT AN APPROVED LOCATION. THE MC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE MC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE

5. THE MC SHALL INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL AND BUILDING CODES AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE MC SHALL OBTAIN CLARIFICATION FROM THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE

REQUIREMENTS. 6. THE MC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT. 7. DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR

8. THE MC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE MC SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE MC SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. <u>METHODS:</u> 9. ALL MECHANICAL MATERIALS SHALL BE NEW AND FREE OF DEFECT AND LISTED AND LABELED BY UL OR AN APPROVED THIRD PARTY AGENCY. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE MC WITHOUT ADDITIONAL

COST TO THE OWNER. WHERE A MANUFACTURER AND MODEL NUMBER IS GIVEN, THE CITED EXAMPLE IS INTENDED TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. SUCH EXAMPLES ARE USED TO CONVEY A GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF THE PRODUCT DESIRED; PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED.

10. THESE PLANS ARE DIAGRAMMATIC. THE MC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, DUCTS, REGISTERS, GRILLES, ETC, TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE MC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONTINGENCIES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO

11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING.

12. IT IS THE MC'S RESPONSIBILITY TO VERIFY THAT ITEMS FURNISHED FOR THIS CONTRACT WILL FIT IN THE SPACE AVAILABLE. THE MC SHALL MAKE FIELD MEASUREMENTS AS NECESSARY TO DETERMINE SPACE REQUIREMENTS. IF THE MC MUST ALTER EQUIPMENT DUE TO SPACE CONSIDERATIONS, THE MC SHALL PROVIDE SIZES AND SHAPES THAT FIT THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS.

13. MC SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING THE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT BEING PROVIDED. 14. MAINTAIN CLEARANCES FOR ALL EQUIPMENT ACCORDING TO MANUFACTURER'S 4.

RECOMMENDATIONS FOR SERVICEABILITY. ALL ROOFTOP EQUIPMENT MUST BE A MINIMUM OF 10 FEET FROM ROOF EDGE. 15. MC SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF THE

PROJECT. MC SHALL PROVIDE ALL DOCUMENTATION TO THE OWNER AS NECESSARY TO SUBMIT FOR FACTORY WARRANTIES. 16. CONTRACTOR SHALL PROTECT ALL HVAC EQUIPMENT FROM CONSTRUCTION AND SHEET ROCK DUST DURING CONSTRUCTION. ALL FILTERS SHALL BE REPLACED

WITH NEW AT THE COMPLETION OF THE PROJECT. 17. ALL EQUIPMENT INSTALLED ON ROOF MUST BE WITHIN THE ROOF SCREEN. 18. IF A ROOF PENETRATION IS REQUIRED AND THE ROOF IS UNDER WARRANTY, USE

THE AUTHORIZED ROOFER. PROVIDE DOCUMENTATION. 19. ALL PIPING, WIRING, CONDUIT, INSULATION, EQUIPMENT, SUPPORTS, ETC. SHALL BE SUITABLE FOR INSTALLATION IN A RETURN PLENUM AS NECESSARY. COORDINATE

WITH OTHER TRADES ON LOCATIONS OF ALL PLENUMS. 20. MC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

1. THE MC SHALL PROVIDE ALL DX UNITARY HEATING AND COOLING EQUIPMENT AS SCHEDULED ON THE DRAWINGS. AIR-COOLED SPLIT SYSTEM HEAT PUMPS AND AIR-CONDITIONERS SHALL BE BY TRANE, CARRIER, OR YORK, AIR-COOLED ROOFTOP PACKAGE HEAT PUMPS, GAS-ELECTRIC UNITS, AND AIR-CONDITIONERS SHALL BE BY TRANE, CARRIER, OR YORK. GAS FURNACES SHALL BE BY TRANE, CARRIER, OR YORK. THE MC SHALL PROVIDE FACTORY AND FIELD INSTALLED ACCESSORIES AS SCHEDULED OR AS NECESSARY FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM.

2. THE MC SHALL PROVIDE ALL EXHAUST AND SUPPLY FANS AS SCHEDULED. FANS SHALL BE BY GREENHECK, LOREN COOK, TWIN CITY, OR PENNBARRY. DUCTWORK IS SHOWN WITH FREE AREA DIMENSIONS. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT

STANDARD, 2 INCH S.P. 4. External duct insulation and factory—insulated flexible duct shall be 11. MC shall install fire dampers at each penetration of a rated wall as LEGIBLY PRINTED OR IDENTIFIED AT INTERVALS NOT GREATER THAN 36 INCHES WITH THE NAME OF THE MANUFACTURER, THE THERMAL RESISTANCE R-VALUE AT THE SPECIFIED INSTALLED THICKNESS AND THE FLAME SPREAD AND SMOKE-DEVELOPED INDEXES OF THE COMPOSITE MATERIALS. ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY, EXCLUDING AIR FILMS, VAPOR RETARDERS OR OTHER DUCT COMPONENTS, AND SHALL BE BASED ON TESTED C-VALUES AT 75°F MEAN TEMPERATURE AT THE INSTALLED THICKNESS, IN ACCORDANCE WITH RECOGNIZED INDUSTRY PROCEDURES. THE INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUES SHALL BE DETERMINED AS FOLLOWS:

4.1. FOR DUCT BOARD, DUCT LINER AND FACTORY—MADE RIGID DUCTS NOT NORMALLY SUBJECTED TO COMPRESSION, THE NOMINAL INSULATION THICKNESS SHALL BE USED. 4.2. FOR DUCT WRAP, THE INSTALLED THICKNESS SHALL BE ASSUMED TO BE

75 PERCENT (25-PERCENT COMPRESSION) OF NOMINAL THICKNESS. FOR FACTORY-MADE FLEXIBLE AIR DUCTS, THE INSTALLED THICKNESS SHALL BE DETERMINED BY DIVIDING THE DIFFERENCE BETWEEN THE ACTUAL 13 OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO. ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIRFLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED. INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM C578. ALL INSULATION SHALL HAVE FORMALDEHYDE EMISSIONS NOT GREATER THAN 0.05 PPM. THE MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDEX FOR INSULATION SHALL MEET THE

JURISDICTION IN WHICH THE BUILDING IS LOCATED. 6. MASTIC USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A-95 OR UL 181B-98. MAINTAIN AMBIENT TEMPERATURES AND CONDITIONS REQUIRED BY MANUFACTURER OF ADHESIVES, MASTICS, AND INSULATION CEMENTS. DO NOT INSTALL DUCT SEALANT WHEN TEMPERATURES ARE LESS THAT THOSE RECOMMENDED BY THE SEALANT MANUFACTURER.

REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY THE

ALL ADHESIVES AND SEALANTS SHALL HAVE VOC CONTENT BELOW 20 GRAMS PER LITER AND WHICH MEET THE REQUIREMENTS OF THE MANUFACTURER OF THE PRODUCTS BEING ADHERED OR INVOLVED. ADHESIVES AND SEALANTS SHALL CONTAIN NO HEAVY METALS OR FORMALDEHYDE.

 FACTORY-MADE AIR DUCTS AND CONNECTORS SHALL COMPLY WITH UL 181-96. 9. FLEXIBLE DUCT SHALL BE UL LISTED CLASS 0 OR CLASS 1. INSULATED, AND COMPLY WITH UL 181. FLEXIBLE DUCT SHALL BE FACTORY FORMED, COMPOSED OF SPIRAL WOUND CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER. DUCT SHALL BE FACTORY INSULATED WITH A FOIL VAPOR BARRIER JACKET. CONNECT TO RIGID DUCT WITH SPIN-IN FITTING AND DAMPER. FLEXIBLE DUCTS AND AIR CONNECTORS SHALL NOT PASS THROUGH ANY FIRE RESISTANCE RATED

10. THE MC SHALL PROVIDE ALL DIFFUSERS GRILLES, LOUVERS, AND OTHER AIR

DISTRIBUTION OUTLETS AND INLETS. LOUVERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR LAY-IN CEILINGS, INSTALL SUPPORT FROM THE STRUCTURE FOR EACH DIFFUSER OR DAMPER. AIR DISTRIBUTION OUTLETS AND INLETS SHALL BE BY HART & COOLEY, PRICE, METAL—AIRE, NAILOR, OR CARNES. 11. AIR FILTERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 605 OF THE 2018 NC MECHANICAL CODE.

FURNISHED BY OTHERS AND GENERAL CONTRACTOR AS SHOWN ON THE PLANS OR SHALL BE TYPE ACR HARD COPPER TUBING WITH SWEAT FITTINGS. REFRIGERATION LINES SHALL BE RUN NEATLY. WHERE A GROUP OF LINES ARE RUN, TRAPEZE HANGERS MAY BE USED. DO NOT USE CHAIN OR WIRE HANGERS. WRAP TUBING WITH RUBBER TAPE AT EACH CLAMP OR HANGER. FOR COVERED PIPES, HANGERS SHALL FIT AROUND THE OUTSIDE OF THE COVERING WITH 12 GAUGE GALVANIZED STEEL SHIELDS OF A LENGTH EQUAL TO THE OUTSIDE DIAMETER OF THE INSULATION AND COVERING 3/4 OF THE CIRCUMFERENCE OF THE INSULATION. SAGS SHALL NOT BE PERMISSIBLE. HORIZONTAL LINES SHALL PITCH DOWN NOT LESS THAN 1 INCH IN 40 FEET. INSULATE WITH 1 INCH CLOSED CELL ARMAFLEX TYPE INSULATION WITH A FLAME DENSITY RATING LESS THAN 25 AND A SMOKE DENSITY RATING LESS THAN 50. ALL JOINTS AND SPLICES IN INSULATION SHALL BE TAPED AND AIR TIGHT. SOLDER REFRIGERATION LINES USING 15 PERCENT SILVER SOLDER AND EVACUATE LINES TO 300 MICRONS. PROVIDE MOISTURE INDICATING SIGHT GLASS AND FILTER DRYER IN LIQUID LINE. PROVIDE OIL TRAPS AND DOUBLE RISERS IN REFRIGERANT SUCTION AND HOT GAS LINES WHERE REQUIRED TO PREVENT OIL SLUGGING AT THE COMPRESSOR AND INSURE PROPER LUBRICATION. MC SHALL BE RESPONSIBLE FOR SEALING LINE SET PENETRATIONS OF ANY RATED ASSEMBLIES IN ACCORDANCE WITH A SYSTEM LISTED IN THE UL DIRECTORY FOR THE SPECIFIC ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR A LIST OF ALL UL FIRE RATED ASSEMBLIES.

> 1. INSULATE DUCTWORK WITH FIBERGLASS DUCT WRAP: INSTALLED R-VALUE SHALL BE A MINIMUM R-6. COVERINGS AND LININGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL NEW DUCTWORK SHALL RECEIVE INSULATION ON THE OUTSIDE. INSTALL DUCT WRAP INSULATION WITH FACING OUTSIDE SO THAT TAPE FLAP OVERLAPS INSULATION AND FACING OF ADJACENT PIECE OF DUCT WRAP. INSULATION SHALL BE TIGHTLY BUTTED. FOR RECTANGULAR DUCTS, INSTALL SO INSULATION IS NOT EXCESSIVELY COMPRESSED AT DUCT CORNERS. STAPLE SEAMS APPROXIMATELY 6 INCHES ON CENTER WITH OUTWARD CLINCHING STAPLES. SEAL SEAMS WITH PRESSURE SENSITIVE TAPE MATCHING THE FACING. FOR RECTANGULAR DUCTS 24 INCHES IN WIDTH OR GREATER, SECURE DUCT WRAP TO THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS SPACED 18 INCHES ON CENTER TO PREVENT SAGGING OF INSULATION. ADJACENT SECTIONS OF DUCT WRAP SHALL BE TIGHTLY BUTTED WITH THE 2 INCH TAPE FLAP OVERLAPPING. ALL TEARS, PUNCTURES, ETC. OF THE DUCT WRAP INSULATION SHALL BE SEALED WITH TAPE OR MASTIC TO PROVIDE A VAPOR TIGHT SYSTEM. INSULATION SHALL BE BY KNAUF INSULATION, OWENS CORNING CORP, OR CERTAINTEED CORPORATION. VERIFY THAT DUCTS HAVE BEEN TESTED BEFORE APPLYING INSULATION MATERIALS. VERIFY THAT DUCT SURFACES ARE CLEAN, DRY AND FREE OF FOREIGN MATERIAL PRIOR TO INSULATING. DUCT COVERINGS SHALL NOT PENETRATE A WALL OR

WHERE DUCTS ARE CONNECTED TO EXTERIOR WALL LOUVERS AND DUCT OUTLET IS SMALLER THAN LOUVER FRAME, PROVIDE BLANK-OUT PANELS SEALING LOUVER AREA AROUND DUCT. USE SAME MATERIAL AS DUCT, PAINTED BLACK ON EXTERIOR SIDE; SEAL TO LOUVER FRAME AND DUCT.

FLOOR REQUIRED TO HAVE A FIRE-RESISTANCE RATING OR REQUIRED TO BE FIRE

PROVIDE DUCT ACCESS DOORS FOR INSPECTION AND CLEANING BEFORE AND AFTER FILTERS, COILS, FANS, AUTOMATIC DAMPERS, AT FIRE DAMPERS, COMBINATION FIRE AND SMOKE DAMPERS.

BLOCKED.

CONSTRUCT T's, BENDS, AND ELBOWS WITH RADII OF NOT LESS THAN 1-1/2 TIMES THE WIDTH OF THE DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS MUST BE USED, PROVIDE TURNING VANES. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE; MAXIMUM OF 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM.

7. IT SHALL BE THE RESPONSIBILITY OF THE MC TO SUSPEND AND SUPPORT ALL EQUIPMENT, DUCTWORK, DIFFUSERS, AND OTHER MATERIALS FOLLOWING RECOGNIZED ENGINEERING PRACTICES AND USING STANDARD, COMMERCIALLY ACCEPTED HANGERS AND SUSPENSION EQUIPMENT. ALL HVAC EQUIPMENT SHALL BE SECURELY MOUNTED TO THE BUILDING STRUCTURE AND SHALL NOT RELY ON CEILING OR WALL SURFACES FOR SUPPORT. THE SUPPORT ATTACHMENT SHALL SUPPORT THE WEIGHT OF THE EQUIPMENT PLUS THE WEIGHT OF THE SUPPORT ATTACHMENT ITSELF. SUPPORT FROM THE TOP CHORD OF THE ROOF JOISTS, GIRDERS, AND BEAMS. THE BOTTOM CHORD IS NOT TO BE USED FOR EQUIPMENT OR PIPING SUPPORT. HANGERS SHALL NOT BE ATTACHED TO CORRUGATED STEEL

8. DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA AT INTERVALS NOT EXCEEDING 10 FEET. DUCTS 36 INCHES OR LARGER SHALL HAVE TRAPEZE TYPE HANGERS SUSPENDED WITH THREADED ROD. SUPPORT DUCTS FROM BAR JOISTS, GIRDERS, OR BEAMS.

CHECK LOCATIONS OF AIR OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM WITH ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING ARRANGEMENT. COORDINATE WITH SPRINKLER CONTRACTOR IF APPLICABLE

PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL MINIMUM 2 DUCT WIDTHS FROM DUCT TAKE-OFF. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFFS TO DIFFUSERS. AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER OR REGISTER ASSEMBLY. ADJUST AIR HANDLING AND DISTRIBUTION SYSTEMS TO PROVIDE DESIGN SUPPLY, RETURN, AND EXHAUST AIR QUANTITIES AT SITE ALTITUDE.

INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FIRE DAMPERS SHALL BE UL LABELED (UL 555), CURTAIN TYPE, WITH INTEGRAL FACTORY SLEEVE AND BLADES LOCATED OUTSIDE THE AIR STREAM. INSTALLATION OF ALL FIRE DAMPERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SECTION 607 OF THE 2018 NC MECHANICAL CODE. PROVIDE ACCESS PANELS FOR TESTING AND SERVICE AS NECESSARY. MC SHALL PROVIDE RADIATION DAMPERS AND THERMAL BLANKETS FOR ALL PENETRATIONS OF RATED CEILING ASSEMBLIES. RADIATION DAMPERS SHALL BE UL LABELED (UL 555C) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC INSTALLATION INSTRUCTIONS. FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND CEILING RADIATION DAMPERS SHALL BE BY RUSKIN, NAILOR, OR LLOYD INDUSTRIES.

MC SHALL INSTALL PROGRAMMABLE THERMOSTATS AS SHOWN ON THE PLANS. THERMOSTAT SHALL BE MOUNTED AT 48 INCHES AFF. THERMOSTATS SHALL MEET THE REQUIREMENTS OF SECTION C403.2.4 OF THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.

FRESH AIR INTAKES SHALL BE INSTALLED ON ALL UNITS AS SHOWN ON DRAWINGS. MAINTAIN 10 FEET OF DISTANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST TERMINATIONS AND PLUMBING VENT THRU ROOFS. MC SHALL INSTALL ALL EXHAUST FANS AND VENT TO THE BUILDING'S EXTERIOR. EC SHALL SWITCH FANS WITH LIGHTS OR ON SEPARATE SWITCH AS SHOWN. P-TRAPS MUST BE INSTALLED ON ALL UNITS. MC SHALL INSTALL AUXILIARY DRAIN PANS UNDER OVERHEAD AIR HANDLERS AND AN AUTOMATIC CUT-OFF FLOAT SWITCH FOR EACH. P-TRAPS AND CONDENSATE LINES SHALL BE 1 INCH. P-TRAPS AND CONDENSATE LINES MAY BE PVC WHERE NOT LOCATED IN PLENUMS; OTHERWISE, THEY SHALL BE TYPE M COPPER. 16. INSTALL BACKDRAFT DAMPERS ON FRESH AIR AND EXHAUST DUCTS WHERE THEY

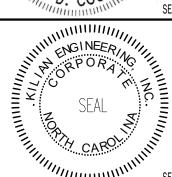
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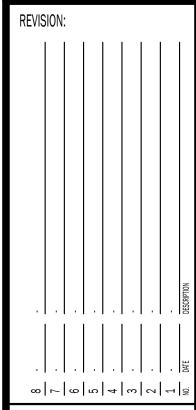
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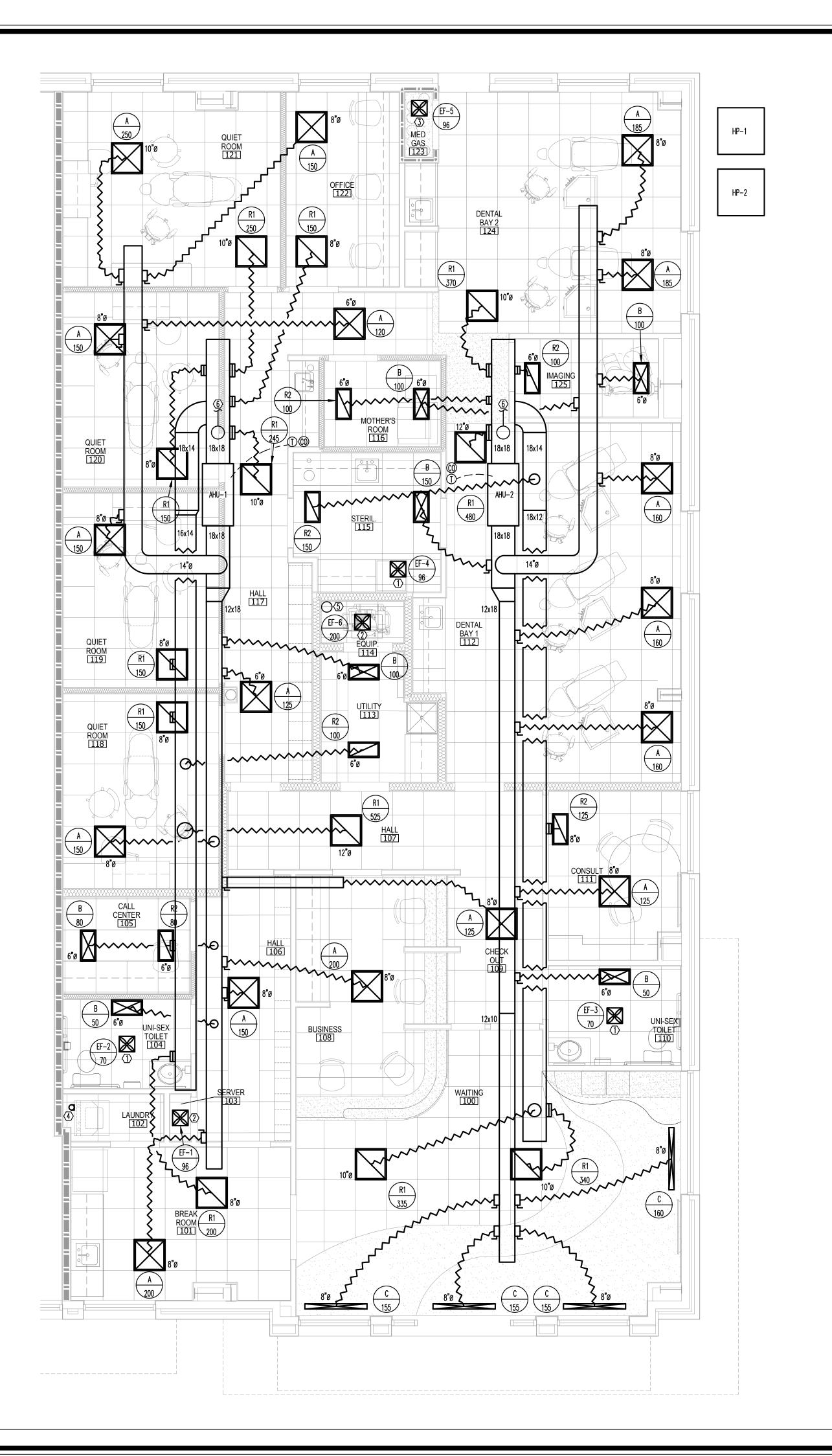
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SOUTHERN SMILES PEDIATRIC DENTISTRY





HEX PLAN NOTES

- EXHAUST FAN WITH WALL PENETRATING DUCTWORK. MINIMIZE DUCT TO EXTERIOR. PROVIDE BACKDRAFT DAMPER IF MIXING DUCT RUN WITH OTHER EXHAUST FANS. PROVIDE HOODED ROOF CAP OR HOODED WALL CAP WITH INSECT SCREEN AT
- EXHAUST FAN. SAME AS NOTE ABOVE, WITH THERMOSTATIC CONTROL CAPABILITIES.
- CONTINUOUS OPERATION EXHAUST FAN. RUN FIRE RATED DUCT TO EXTERIOR. CAN BE CONCEALED IN FYRE-WRAP. COORDINATE PENETRATION ON SITE WITH GC.
- DRYER. MINIMIZE DUCT TO EXTERIOR. 40 DUCT. SEE DETAIL. VENT TO DRYER ROOF CAP. CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10-FEET CLEARANCE FROM ALL BUILDING INTAKES.

8" FRESH AIR DUCT TO ROOM. TERMINATE FRESH AIR DUCT

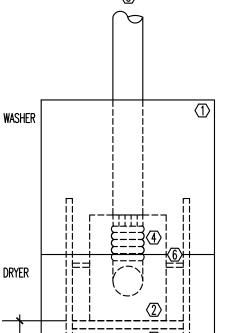
- AT VACUUM PUMP (18" AFF). THERMOSTATIC FAN TO PULL OA THROUGH SPACE FOR CIRCULATION. PROVIDE APPROVED EXTERIOR CAP AND INSECT SCREEN. 10" FRESH AIR DUCT TO AHU. TO ALLOW 250 CFM OF OA TO SYSTEM. COORDINATE WITH GC ON OUT DOOR AIR
- PENETRATION LOCATION(S). REUSE EXISTING PENETRATIONS AS

GENERAL PLAN NOTES

- ROUTE CONDENSATE LINES FOR BOTH AHUS TO EXTERIOR. COORDINATE WITH GC ON CONDENSATION LOCATIONS.
- 2. COORDINATE WITH BUILDING OWNER ON EXTERIOR UNIT MOUNTING LOCATIONS.
- THERMOSTAT LOCATION MOUNT AT 48" A.F.F.
- CO₂ CO₂ SENSOR LOCATION. INSTALL NEXT TO THERMOSTAT

TYPICAL LEGEND

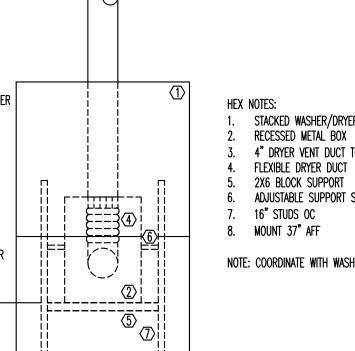
EXISTING 1-HOUR RATED FIRE WALL



STACKED WASHER/DRYER recessed metal box 4" DRYER VENT DUCT TO EXTERIOR (SEE PLANS)

ADJUSTABLE SUPPORT STRAPS 16" STUDS OC

NOTE: COORDINATE WITH WASHER/DRYER INSTALL MANUAL.

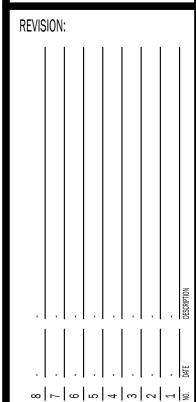


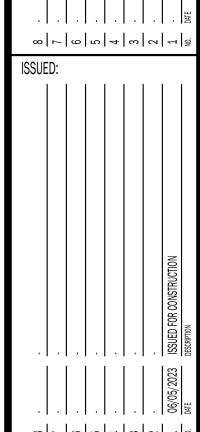
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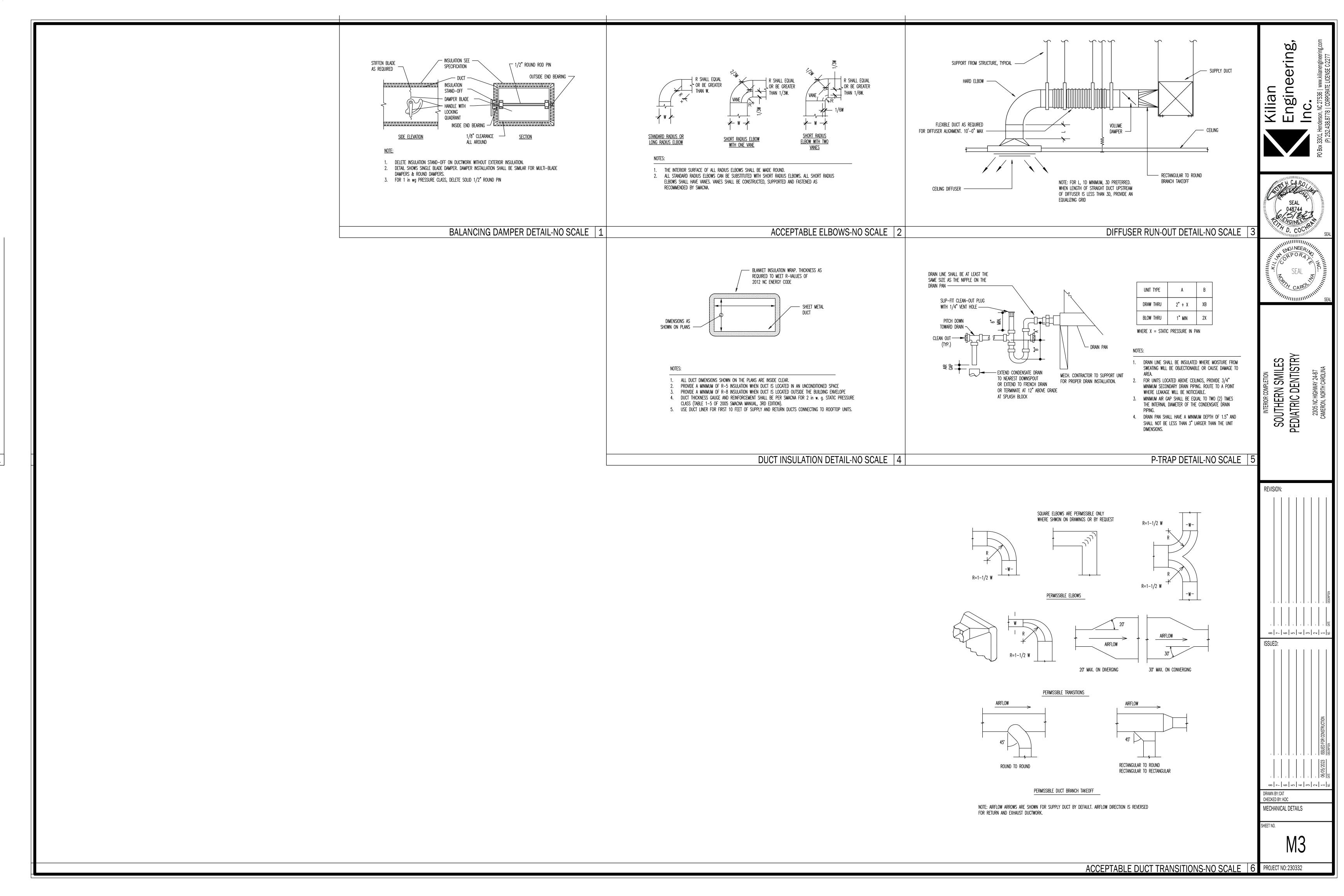
SOUTHERN SMILES
PEDIATRIC DENTISTRY





DRAWN BY: CAT CHECKED BY: KDC

MECHANICAL PLAN



						LIGHT FIX	TURE SCHED	ULE			
MARK	DESCRIPTION	LENS	LUMENS	ССТ	TYPE	VOLTAGE	INPUT WATTAGE	MOUNTING	REMARKS	MFG	MODEL
A1	2X4 LED FLAT PANEL	ACRYLIC	4800	3500K	LED	120	31	LAY-IN	1-4	LITHONIA	EPANL-2X4-4000LM-80CRI-35K-EZT-MVDLT
A2	2X2 LED FLAT PANEL	ACRYLIC	4800	3500K	LED	120	33	LAY-IN	1-4	LITHONIA	EPANL-2X2-4000LM-80CRI-35K-EZT-MVDLT
B1	4" LED CAN	-	2000	3500K	LED	120	55	RECESSED	1-4	LITHONIA	LDN4 35 / 20 MVDLT GZ10 HSG (PS10SSCP FMC)
B2	6' LED CAN	-	2000	3500K	LED	120	25	RECESSED	1-4	LITHONIA	LDN6 35 / 20 MVDLT GZ10 HSG (PS10SSCP FMC)
С	SURFACE LIGHT	-	-	3500K	LED	120	30W MAX	SURFACE	1-3		\$200 FIXTURE ALLOWANCE
F	TAPE LIGHT	-	330/FT	3500K	-	120	4W/FT	UNDER BAR	1-4	FLEXNEON	LRDUR8
Р	PENDANT	-	-	35000K	LED	120	30W MAX	SUSPENDED	1-4		\$200 FIXTURE ALLOWANCE
S	WALL SCONCE	-	1000	3500K	LED	120	30W MAX	WALL	1-4		\$200 FIXTURE ALLOWANCE
٧	VANITY LIGHT	ACRYLIC	2000	3500K	LED	120	4□W MAX	WALL	1-4		\$200 FIXTURE ALLOWANCE
Z	2' LED STRIP	DROP DIFFUSER	5000	3500K	LED	120	36	SURFACE	1-4	LITHONIA	ZL1D
EM	DUAL HEAD EMERGENCY FIXTURE	-	-	N/A	LED	0. 62	SURFACE	SURFACE	5,6	LITHONIA	ENSC-2D
EX	LED EXIT SIGN W/ BATTERY BACKUP	-	-	N/A	LED	120	1	SURFACE	5, 6	LITHONIA	LQM-S-W-1-R-120/277-EL-N-SD
Œ	EXTERIOR OVAL LED EMERGENCY LIGHT	ACRYLIC	-	N/A	LED	120	2. 8	SURFACE	5, 6	LITHONIA	AFO-DB-MVOLT-N-SD
EMG-INV	EM LIGHT INVERTER	-	-	-	-	120	MFG	-	-	-	-

- UNLESS OTHERWISE NOTED, COLOR & FINISH OF ALL FIXTURE ELEMENTS BY ARCHITECT FIXTURES WIRED VIA EM INVERTER WHERE EMG-INV IS SHOWN
- ALL LAMPS OF A SINGLE FIXTURE TYPE INSTALLED IN EACH SPACE ARE TO BE OF SAME TEMPERATURE/COLOR.
- SPECIFIC FIXTURES MARKED WITH "E" AT THE END INDICATE BATTERY BACK UP FOR PATH OF EGRESS.
- FIXTURE SHALL HAVE BATTERY BACKUP FOR 90 MINUTE ILLUMINATION.
- 6. OR EQUAL BY COOPER, PHILIPS, OR DAY-BRITE LIGHTING.

		LIGHTING DEVICE LEGEND
SYMBOL	DESCRIPTION	REMARKS
\$	SINGLE POLE WALL SWITCH	HEAVY DUTY, AC ONLY, COMMERCIAL GRADE GENERAL USE SNAP SWITCH COMPLYING WITH NEMA WD 6 AND WD 1. IVORY PLASTIC BODY WITH TOGGLE HANDLE. 120-277V, 20A. MEET FEDERAL SPECIFICATION W-S-896.
\$ _D	DIMMER SWITCH	COMMERCIAL GRADE, 120V, 1500W
\$ _M	WALL MOUNTED OCCUPANCY SENSOR	WATTSTOPPER DW-100 LINE VOLTAGE OCCUPANCY SENSOR. ULTRA SONIC AND INFRARED.
\$3	3 WAY SWITCH	WATTSOPPER LVS-1 LOW VOLTAGE MOMENTARY CONTROL SWITCH.
<u>J</u>	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314.40 OF THE NEC.
\mathbb{X}	EXHAUST FAN	VENT FAN, 120V, CFM AS NOTED MC TO PROVIDE AND VENT, EC TO WIRE.

		POWER DEVICE LEGEND
SYMBOL	DESCRIPTION	REMARKS
>	DATA AND TELEPHONE JACK	PHONE/DATA OUTLET. EC TO INSTALL 3/4" WITH PULL-STRING FROM OUTLET BOX TO ABOVE CEILING FOR FUTURE USE. JACKS AND COMMUNICATION CAGELING BY OTHERS
#	DUPLEX RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1. GFCI OR AFCI IF NOTED. 'WP' DENOTES WEATHERPROOF COVER. 'CH' DENOTES COUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596
₩	QUAD RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS DUPLEX TYPE ABOVE.
⇒	DEDICATED RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1 UNLESS OTHERWISE NOTED ON PLANS. VERIFY PLUG TYPE PRIOR TO PURCHASE & INSTALLATION GFCI OR AFCI IF NOTED. 'WP' DENOTES WEATHERPROOF COVER. 'CH' DENOTES COUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596. MAY BE EITHER SIMPLEX, DUPLEX, OR QUAD.
=	SPECIAL RECEPTACLE	208V+ RECEPTACLE. VERIFY RECEPTACLE TYPE/REQUIREMENTS WITH MANUFACTURER.
Ф	DUPLEX FLOOR RECEPTACLE	DUPLEX RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
#	QUAD FLOOR RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
	FUSIBLE DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS, FUSE ACCORDING TO NAMEPLATE DATA.
<u></u>	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314. 40 DF THE NEC.

NOTES FOR EMERGENCY FIXTURES

- FOR INTERIOR FIXTURES WITH EMERGENCY BATTERIES, WIRE THE BATTERY CHARGER ON THE SAME CIRCUIT AS THE FIXTURE BALLAST AHEAD OF ALL SWITCHES, SENSORS, ETC.
- FOR EXTERIOR FIXTURES WITH EMERGENCY BATTERIES. WIRE THE BATTERY CHARGER ON THE SAME CIRCUIT AS THE NORMAL EXTERIOR LIGHTS OR AS SHOWN ON PLANS AHEAD OF ALL CONTACTORS, PHOTOCELLS, ETC.
- IN BOTH CASES, EMERGENCY POWER SHOULD INITIATE ONLY IN THE EVENT OF THE LOSS OF NORMAL POWER. ALL BATTERIES SHALL BE RATED TO POWER EMERGENCY ILLUMINATION FOR 90 MINUTES MINIMUM.

OCCUPANCY SENSORS SEQUENCE OF OPERATIONS WITH LINE-VOLTAGE SWITCH

- 1. LINE VOLTAGE SWITCH MUST BE TURNED ON OR IN ON POSITION.
- OCCUPANCY SENSOR DETECTS MOTION AND TURNS THE LIGHTS ON. SENSOR HOLDS LIGHTS ON AS LONG AS MOTION IS DETECTED. IF AFTER THE SET TIME DELAY, NO MOTION IS DETECTED, LIGHTS TURN OFF. CONSULT OWNER FOR DESIRED TIME DELAY SETTING.
- THE LOAD CAN BE TURNED OFF USING THE MANUAL LINE VOLTAGE SWITCH AND IT STAYS OFF UNTIL THE SWITCH IS TURNED TO ON POSITION AND THE OCCUPANCY SENSOR DETECTS OCCUPANCY.

	ELECTRICAL DES	SIGNER'S STATEMENT	
<u>ELEC</u> PRESCRIP	<u>TRICAL SYSTEM AND EQ</u> TIVE X PERFORMAN	<u>UIPMENT METHOD OF COM</u> ICE ENERGY COST	PLIANCE BUDGET
LIGHTING SCHEDULE:			
LAMP TYPE REQUIRE	D IN FIXTURE:		SEE LIGHTING LEGEN
NUMBER OF LAMPS PI	ER FIXTURE:		SEE LIGHTING LEGEN
BALLAST TYPE USED	IN FIXTURE:		SEE LIGHTING LEGEN
NUMBER OF BALLAST:	S IN FIXTURE:		SEE LIGHTING LEGEN
TOTAL WATTAGE PER	FIXTURE:		SEE LIGHTING LEGEN
TOTAL INTERIOR WA	TTAGE SPECIFIED VS	WATTS SPECIFIED	WATTS ALLOWED
ALLOWED:		2807. 0	3465. 11
DCCUPANCY	AREA (sf)	ALLOWANCE (W/sf)	WATTAGE ALLOWED
LOBBY	523	0. 90	470. 70
BREAK ROOM	139	0. 92	127. 88
LAUNDRY	19	0. 60	11. 40
CORRIDOR	460	0. 66	303. 60
ENCLOSED OFFICE	399	1. 11	442. 89
EXAM/TREATMENT	1166	1. 66	1935. 56
ELEC/MECH	78	0. 95	74. 10
RESTROOM	101	0. 98	98. 98
TOTAL	523		3465, 11
EQUIPMENT SCHEDULI MDTDR HDRSEPDWER: NUMBER OF PHASES: MINIMUM EFFICIENC' MDTDR TYPE: N/A NUMBER OF POLES: I	N/A N/A Y: N/A	SED FOR MECHANICAL SY	(STEMS)

FOR THE ADDITIONAL PRESCRIPTIVE REQUIREMENT REQUIRED BY C406 OF 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, WE ARE CHOOSING C406.3 — REDUCED LIGHTING POWER DENSITY.

2807 W SPECIFIED <= 3118.6 W (3465.11 W ALLOWED X 90%)

GENERAL ELECTRICAL NOTES:

- 1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS: PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
- FASC FIRE ALARM SYSTEM CONTRACTOR. "PROVIDE" MEANS TO FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR AS REQUIRED.
- EC SHALL PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. MINOR ITEMS, ACCESSORIES, AND DEVICES REASONABLY INFERABLE AS NECESSARY FOR THE COMPLETION AND PROPER OPERATION OF ANY ELECTRICAL SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING."
- 5. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE ELECTRICAL CONTRACTOR UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- 6. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR
- 8. TRADE NAMES AND MANUFACTURERS ARE SPECIFIED TO ESTABLISH A QUALITY STANDARD. SUBSTITUTIONS SHALL BE PERMITTED IF APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL LISTED MODEL NUMBERS SHALL BE VERIFIED WITH THE MANUFACTURER FOR PROPER APPLICATION OF
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO METHODS: BECOME FAMILIAR WITH EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF
- GROUNDING AND BONDING SHALL BE PER NEC ARTICLE 250. THE RACEWAY SYSTEM SHALL NOT BE RELIED UPON FOR GROUNDING CONTINUITY. A GREEN EQUIPMENT GROUNDING CONDUCTOR. SIZED PER NEC TABLE 250-122, SHALL BE RUN IN ALL POWER RACEWAYS. FOR NON-ISOLATED GROUND CIRCUITS PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN. FOR ISOLATED GROUND CIRCUITS, PROVIDE ONE NEUTRAL AND ONE ISOLATED GROUND WIRE FOR EACH CIRCUIT; IN ADDITION, PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN. MAIN BONDING JUMPERS AND SYSTEM BONDING JUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH 250.28 OF THE NEC. FOR BUILDINGS OR STRUCTURES SUPPLIED BY FEEDERS OR BRANCH CIRCUITS, GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH 250.32. SEPARATELY DERIVED AC SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH 250.30. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS; ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED PER 250.56 AS NECESSARY. 11. ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE UNDERWRITERS'
- LABORATORIES, INC. STANDARDS OR HAVE UL APPROVAL, OR BEAR UL RE-EXAMINATION LISTING WHERE SUCH APPROVAL HAS BEEN ESTABLISHED FOR THE TYPE OF DEVICE IN QUESTION. 12. CONDUCTORS, FUSES, CIRCUIT BREAKERS, AND DISCONNECT SWITCHES SHOWN ON THESE PLANS HAVE BEEN SIZED FOR THE SPECIFIED EQUIPMENT. BEFORE ORDERING ELECTRICAL EQUIPMENT, THE ELECTRICAL

CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON THE SITE

AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES SHOULD CONDUCTOR,

- CIRCUIT BREAKER, OR FUSE SIZES REQUIRE CHANGE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THE FOLLOWING MATERIALS ARE RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT: LIGHT FIXTURES, INCLUDING PROPER DISPOSAL OF BALLASTS, FLUORESCENT LIGHT BULBS, AND TRANSFORMERS, WIRING AND ELECTRICAL EQUIPMENT, AND INSULATION. WASTE MATERIALS CONTAINING LEAD, ASBESTOS, PCBs (FLUORESCENT LAMP BALLASTS), OR OTHER HARMFUL SUBSTANCES SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND
- REQUIREMENTS CONCERNING HAZARDOUS WASTE. 14. ALL WORK SHALL CONFORM TO 2020 NATIONAL ELECTRIC CODE, 2018 STATE BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.

- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTACLES, TERMINALS, ETC, UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE EQUIPMENT, SUB PANELS, AND OTHER ELECTRICAL DISTRIBUTION EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH UTILITY REGARDING SERVICE AND METERING DETAILS. PANEL BOARDS AND SWITCH BOARDS SHALL BE SQUARE D. CUTLER-HAMMER, SIEMENS, OR GE. BUSES SHALL BE COPPER UNLESS OTHERWISE APPROVED BY THE ENGINEER. RECESSED PANEL BOARDS SHALL BE INSTALLED FLUSH WITH THE WALL FINISH. METER BASES SHALL COMPLY WITH THE UTILITY'S SPECIFICATIONS AND SHALL BE MOUNTED AT A HEIGHT APPROVED BY THE UTILITY. ALL EQUIPMENT IDENTIFIED FOR SERVICE ENTRANCE USE SHALL BE SO LABELED AND UL LISTED FOR SUCH USE. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT WITH CLEARANCES PER NEC 110.26. ELECTRICIAN SHALL PERMANENTLY LABEL EQUIPMENT PER NEC 110.24.
- ENCLOSED SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE BY SQUARE D, EATON, OR GE. ENCLOSED SWITCHES SHALL HAVE A HANDLE LOCKABLE IN THE OFF POSITION AND SHALL HAVE A HANDLE INTERLOCKED TO PREVENT OPENING THE FRONT COVER WHILE IN THE ON POSITION. ENCLOSED SWITCHES OF THE FUSIBLE TYPE SHALL BE FUSED IN ACCORDANCE WITH NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN,
- LITTELFUSE, OR MERSEN. 4. OCCUPANCY SENSORS SHALL BE BY WATTSTOPPER, LUTRON, LEVITON,
- SENSOR SWITCH, HUBBELL, OR APPROVED EQUAL. CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL MAGNETIC TYPE WITH QUICK-MAKE, QUICK-BREAK MECHANISM, COMMON TRIP ON MULTI-POLE BREAKERS, AND UL LISTED FOR BOTH COPPER AND ALUMINUM CONDUCTORS. CIRCUIT BREAKERS IN PANELS SHALL BE SERIES RATED WITH THE MAIN BREAKER, FULLY RATED FOR THE SYSTEM, OR SERIES RATED WITH THE BREAKER FEEDING THE PANEL FROM THE FACTORY. 6. ALL WIRE, CONNECTORS, TERMINALS, AND LUGS SHALL BE PROVIDED BY
- THE ELECTRICAL CONTRACTOR. WHERE CONDUCTORS ARE RUN IN PARALLEL, LUGS SHALL BE LISTED FOR PARALLEL CONDUCTORS. PUSH WIRE CONNECTORS ARE NOT ALLOWED FOR BUILDING WIRE. PUSH CONNECTORS ARE ONLY ALLOWED, WHEN APPROVED, AS PART OF MANUFACTURED LISTED PRODUCTS. ALL WIRE SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL RATED THHN/THWN OR XHHW; ALL WIRING INSTALLED BELOW GRADE OR IN MOIST OR WET LOCATIONS SHALL HAVE TYPE THWN OR XHHW INSULATION. INSULATION VOLTAGE RATING SHALL BE 600 VOLTS AND A MINIMUM TEMPERATURE RATING OF 75°C. CONDUCTORS SHALL BE SOLID OR STRANDED COPPER FOR #10 AWG AND #12 AWG, AND STRANDED COPPER FOR #8 AWG AND LARGER SIZES. ALL WIRING AND CABLE SHALL BE UL LISTED. ALL TERMINATIONS AND DEVICES SHALL BE RATED FOR USE WITH 75°C CONDUCTORS. FINAL CONNECTIONS TO ALL MOTORS AND EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH STRANDED COPPER CONDUCTORS. CONDUCTORS SHALL BE BY CERRO WIRE, INC,
- INDUSTRIAL WIRE & CABLE, INC, OR SOUTHWIRE COMPANY. JOINTS IN SOLID CONDUCTORS SHALL BE SPLICED USING IDEAL "WIRE NUTS". 3M "SCOTCH LOCK". OR T&B "PIGGY" CONNECTORS IN JUNCTION BOXES, OUTLET BOXES, AND LIGHTING FIXTURES. JOINTS IN STRANDED CONDUCTORS SHALL BE SPLICED BY APPROVED MECHANICAL CONNECTORS AND GUM RUBBER TAPE OR FRICTION TAPE. SOLDERLESS MECHANICAL CONNECTORS FOR SPLICES AND TAPS, PROVIDED WITH UL APPROVED

- INSULATING COVERS, MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE. IN ALL CASES, CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICING SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES, TROUGHS, OR GUTTERS. WHERE CONCENTRIC, ECCENTRIC, OR OVERSIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING
- TYPE INSULATED BUSHING SHALL BE PROVIDED. 9. ALL LUMINAIRES SHALL BE LISTED. LUMINAIRES IN WET OR DAMP LOCATIONS SHALL BE MARKED AS SUITABLE FOR THE RESPECTIVE USE. EMERGENCY LIGHTING SHALL BE INSTALLED AS SHOWN. FINAL LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS MEETING ANSI C82.11 FOR ELECTRONIC BALLAST PERFORMANCE. ALL BALLASTS SHALL BE UL LISTED AND MEET FEDERAL AND STATE EFFICIENCY REQUIREMENTS.
- 10. ALL CONDUIT, FITTINGS, COUPLINGS, AND SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUIT FITTINGS AND COUPLINGS SHALL BE BY APPLETON, RACO, OR O-Z/GEDNEY. COUPLINGS SHALL BE THREADED, SET-SCREW, OR COMPRESSION TYPE. INDENTER OR CRIMP TYPE ARE NOT PERMITTED. CONDUIT FITTINGS AT ALL ELECTRICAL BOXES INCLUDING PULL, JUNCTION, AND OUTLET BOXES, SHALL HAVE INSULATED THROATS TO PREVENT INSULATION SCORING. DIE CAST FITTINGS ARE NOT
- 11. EMT SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE—AMERICAN NATIONAL STANDARD FOR STEEL ELECTRICAL METALLIC TUBING (EMT), ANSI C80.3 AND UL 797. RIGID METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR ELECTRICAL RIGID STEEL CONDUIT (ERSC), ANSI C80.1 AND UL 6. INTERMEDIATE METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR INTERMEDIATE METAL CONDUIT ANSI C80.6 AND UL 1242.
- 12. METAL CONDUIT SHALL BE BY ALLIED TUBING & CONDUIT, BECK MANUFACTURING. INC. OR WHEATLAND TUBE COMPANY. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, AND NONMETALLIC CONDUIT SHALL BE BY AFC CABLE SYSTEMS, INC, ELECTRI-FLEX COMPANY, or international metal hose.

1. EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED

- IN THE CONTRACT. 2. ALL CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR BREAKERS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4 in CONDUIT. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SOURCE PER NEC 210.4(B). GROUP ALL CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT PER 210.4(D) WITH WIRE TIES OR SIMILAR MEANS. DO NOT EXCEED THREE HOMERUNS PER CONDUIT. DO NOT INSTALL ISOLATED GROUND AND NON-ISOLATED GROUND CIRCUITS IN THE SAME CONDUIT. INSTALL CONDUCTORS OF DIFFERENT VOLTAGES IN SEPARATE CONDUITS.
- COLOR CODE CONDUCTORS PER NEC. FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12. USE BLACK, RED, AND BLUE FOR PHASES A, B, AND C RESPECTIVELY ON 208Y/120 VOLT THREE-PHASE Y SYSTEMS AND WHITE FOR THE NEUTRAL. ISOLATED GROUND WIRES SHALL BE GREEN WITH YELLOW BANDS OR STRIPES. THIS IDENTIFICATION SHALL BE MADE AT EACH POINT WHERE A CONNECTION IS MADE. COLORS SHALL BE FACTORY APPLIED FOR CONDUCTORS #6 AWG AND SMALLER. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN IN COLOR AND MINIMUM #12 AWG. THE EC SHALL PROVIDE PLENUM RATED CABLE FOR ANY ELECTRICAL, TELEPHONE, COMMUNICATION, OR OTHER CABLE THAT ENTERS CEILING return plenums.
- 4. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING. COORDINATE LIGHTING LAYOUT WITH CEILING GRID, MECHANICAL EQUIPMENT, DUCTWORK AND SPRINKLER HEADS AS NECESSARY. SEE REFLECTED CEILING PLAN FOR DETAILS. FLUORESCENT FIXTURES UTILIZING DOUBLE-ENDED LAMPS MUST HAVE A DISCONNECTING MEANS COMPLYING WITH NEC 410.130(G).
- . MOUNT LIGHT SWITCHES AT 48 in AFF. MULTIPLE SWITCHES AT SAME LOCATION SHALL BE UNDER ONE WALL PLATE. VERIFY WALL PLATE COLOR AND MATERIAL WITH THE ARCHITECT/OWNER. INSTALL SWITCHES WITH off POSITION DOWN. ALL SWITCHES SHALL BE HEAVY DUTY, IVORY PLASTIC WITH TOGGLE HANDLE, RATED 120-277V AC, AND COMPLYING WITH NEMA WD 6 AND WD 1. SWITCHES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS & SEYMOUR, OR HUBBELL. PROVIDE BOX DEVICE PARTITION/DIVIDERS FOR MULTI-GANG BOXES FOR COMPLIANCE WITH NEC
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE—STOPPING AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS TO PRESERVE OR RESTORE THE FIRE-RESISTANCE RATING. SEAL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES SPECIFIC TO THIS PROJECT.
- 7. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI RECEPTACLES IN KITCHENS, RESTROOMS, OUTDOORS, AND IN SHOP AREAS AS REQUIRED BY NEC. REFRIGERATORS AND WATER COOLERS MUST HAVE A DEDICATED GFCI BREAKER. EACH OUTDOOR HVAC UNIT MUST HAVE A GFCI RECEPTACLE WITHIN 25 FEET FOR SERVICING. GFCI RECEPTACLES SHALL CONFORM TO UL 943 CLASS A AND UL 498 STANDARDS. RECEPTACLES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS & SEYMOUR, OR HUBBELL. ALL RECEPTACLES SHALL BE 125V RATED, HEAVY DUTY, AND COMPLY WITH NEMA WD 6 AND WD 1. 8. LOCATIONS AND HEIGHTS OF ALL WALL-MOUNTED DEVICES SHALL BE

COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.

CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS OR UNFINISHED

- AREAS AS NOTED. USE EMT CONDUIT FOR ALL BRANCH CIRCUITS AND FEEDERS INSIDE THE BUILDING. TYPE MC CABLE AND TYPE AC CABLE MAY BE INSTALLED WITHIN WALLS IF ALL NEUTRAL WIRES, ISOLATED GROUND WIRES, AND EQUIPMENT GROUND WIRES AS LISTED ABOVE ARE CONTAINED IN THE CABLE. FLEXIBLE CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SHALL BE MADE USING WEATHERPROOF FLEXIBLE CONDUIT. FOR LAY-IN LIGHT FIXTURES, USE MAXIMUM OF SIX (6) FEET OF FLEXIBLE MC CABLE (OR THE FLEXIBLE CONDUIT PROVIDED BY THE FIXTURE MANUFACTURER). SCHEDULE 40 PVC CONDUIT MAY BE USED FOR THE SECONDARY UNDERGROUND SERVICE, UNDERGROUND TELEPHONE SERVICE, AND BRANCH AND FEEDER CIRCUITS UNDER SLAB OR EXTERIOR TO THE BUILDING. EXPOSED EXTERIOR CONDUIT SHALL BE SCHEDULE 80 PVC. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED WITH UNDERGROUND LINE MARKING TAPE 6-8 in BELOW GRADE DIRECTLY ABOVE THE RACEWAY. PROVIDE PULL WIRE IN EMPTY CONDUITS. UPSIZE CONDUIT FROM MINIMUM SIZE AS NECESSARY FOR LONGER PULLS. UNDERGROUND RACEWAYS THAT STUB INTO THE BOTTOM OF SWITCHBOARDS, OUTDOOR TRANSFORMERS. GENERATORS, ETC., SHALL RISE AT LEAST 2 in ABOVE THE FINISHED SLAB TO PREVENT WATER FROM DRAINING INTO THE RACEWAYS. RACEWAYS THAT PENETRATE EXTERIOR WALLS OR INTERIOR PARTITIONS SEPARATING SPACES THAT WILL BE AT SIGNIFICANTLY DIFFERENT TEMPERATURES SHALL BE
- INTO EACH RACEWAY AT ONE TIME. USE A SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE #4 AWG AND LARGER. 10. CABLES, RACEWAYS, OR BOXES, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS UNDER METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1-1/2 in MEASURED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE CABLE, RACEWAY, OR BOX. A CABLE, RACEWAY, OR BOX SHALL NOT BE INSTALLED IN CONCEALED LOCATIONS IN

SEALED IN ACCORDANCE WITH 300.5(G), 300.7(A), AND 300.50(E) OF THE

NEC. ROUTE CONDUIT IN AND UNDER SLAB FROM POINT-TO-POINT. ROUTE

EXPOSED CONDUIT AND CONDUIT INSTALLED ABOVE ACCESSIBLE CEILINGS

PARALLEL AND PERPENDICULAR TO WALLS. COMPLETELY AND THOROUGHLY

SWAB ALL RACEWAYS BEFORE INSTALLING WIRE. PULL ALL CONDUCTORS

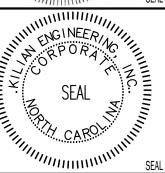
METAL-CORRUGATED, SHEET DECKING-TYPE ROOF, SEE NEC 300.4(E). 11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS. ALL OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED STEEL TYPE BY APPLETON, STEEL CITY, OR RACO. EXTERIOR BOXES SHALL BE TYPE FS. VAPORTITE BOXES SHALL BE TYPE GS. WHERE SURFACE MOUNTED BOXES ARE USED, THOSE BOXES AND THEIR FACEPLATES SHALL HAVE ROUNDED CORNERS. BOXES INSTALLED IN FLOORS SHALL BE RATED FOR THE APPLICATION. MOUNT JUNCTION AND OUTLET BOXES FLUSH WITH FINISH SURFACES UNLESS OTHERWISE NOTED.

- WHERE MOUNTING HEIGHTS ARE GIVEN, THEY SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTER OF THE BOX. ALL BOXES SHALL BE SIZED PER NEC ARTICLE 314. ALL OUTLET AND JUNCTION BOXES SHALL HAVE A COVER PLATE, PROVIDED BY THE ELECTRICAL CONTRACTOR, OUTLET BOXES IN RATED WALLS SHALL BE INSTALLED IN ACCORDANCE WITH NORTH CAROLINA BUILDING CODE 712.3.2 (MAXIMUM BOX SIZE IS 16 SQUARE in AND MAXIMUM OF SIX (6) BOXES PER 100 SQUARE FEET). INSTALL OUTLET BOXES IN RATED WALLS SUCH THAT OPENINGS OCCUR IN ONE SIDE ONLY WITHIN ANY GIVEN STUD SPACE. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE GYPSUM BOARD SHALL BE FILLED WITH JOINT COMPOUND OR OTHER APPROVED FIRE STOP MATERIAL. FLUSH MOUNTED JUNCTION BOXES IN ADJACENT ROOMS SHALL NOT BE MOUNTED BACK-TO-BACK. SURFACE MOUNTED FIXTURES SHALL BE FED THROUGH FLUSH MOUNTED
- 4X4 OCTAGONAL OR SQUARE BOXES. 12. ALL CONDUIT, BOXES, AND ELECTRICAL EQUIPMENT SHALL BE FIRMLY AND SECURELY FASTENED TO OR SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS OR EMBEDDED IN CONCRETE OR MASONRY. ELECTRICAL SUPPORTS SHALL NOT BE ATTACHED TO DUCTWORK, PIPING, OR THEIR SUPPORTS. HANGERS SHALL BE CATALOG ITEMS COMPATIBLE WITH AND SUITABLE FOR THE INTENDED USE. FOR METAL ROOF DECK INSTALLATIONS, 1 in EMT CONDUIT MAXIMUM AND 4 in JUNCTION BOXES MAXIMUM MAY BE SUPPORTED BY DECKING. THE SUSPENDED CEILING SYSTEM SHALL NOT BE USED FOR THE SUPPORT OF ELECTRICAL RACEWAY SYSTEMS OR SUPPORT OF COMMUNICATIONS OR DATA SYSTEMS WIRING. CONTRACTOR SHALL COMPLY WITH 1613 OF THE NORTH CAROLINA GENERAL CONSTRUCTION BUILDING CODE.
- 13. WHERE CONDUCTORS ARE RUN IN PARALLEL, THE EC SHALL COMPLY WITH
- 14. ISOLATED-GROUND TYPE RECEPTACLES SHALL BE INSTALLED IN ACCORDANCE WITH 250.146(D). ISOLATED GROUND RECEPTACLES SHALL BE
- ORANGE IN COLOR. 15. IN PATIENT CARE AREAS, EQUIPMENT GROUNDING SHALL COMPLY WITH NEC 517.13 (THIS INCLUDES LIGHTS AND SWITCHES). THE METAL RACEWAY SYSTEM, METALLIC CABLE ARMOR, OR SHEATH ASSEMBLY SHALL ITSELF
- QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR PER NEC 250.118. 16. INSTALL ONE (1) 3/4 in FIRE RETARDANT TREATED PLYWOOD BACKBOARD WHERE INDICATED ON THE DRAWINGS FOR THE USE BY THE TELEPHONE SYSTEM. PROVIDE A 120 VOLT RECEPTACLE ADJACENT TO THE TELEPHONE BOARD. GROUND ALL TELEPHONE AND COMMUNICATIONS CIRCUITS PER NEC
- 17. ALL TELEPHONE AND COMMUNICATIONS OUTLETS AND RACEWAYS ARE ROUGH-INS ONLY. EACH TELEPHONE AND COMMUNICATIONS OUTLET SHALL BE A 4 in SQUARE BY 2-1/8 in DEEP BOX WITH 3/4 in KNOCK-OUTS AND A 3/4 in CONDUIT STUBBED FROM THE OUTLET BOX TO ABOVE THE CEILING. PROVIDE A NON-METALLIC INSULATING BUSHING ON ALL CONDUITS STUBBED ABOVE THE CEILING. PROVIDE A BLANK COVER PLATE ON ALL OUTLET BOXES.
- 18. ELECTRICAL CONTRACTOR SHALL INSTALL DISCONNECT SWITCHES IN SIGHT OF ALL HARDWIRED EQUIPMENT AND APPLIANCES OR PROVIDE BREAKERS CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 422.31. FOR MOTOR DRIVEN APPLIANCES, PROVIDE A DISCONNECTING MEANS PER NEC 422.31 AND 430 PART IX. WHERE AN INDIVIDUAL DISCONNECT SWITCH, CIRCUIT BREAKER, STARTER, ETC, IS SHOWN ON THE PLANS ADJACENT TO ITS LOAD AND NOT LOCATED ON A WALL, PROVIDE NECESSARY MATERIALS AND LABOR TO SUPPORT THE DEVICE.
- ELECTRICAL CONTRACTOR SHALL FIELD IDENTIFY ALL SWITCH BOARD, PANEL BOARDS, CONTROL PANELS, METER SOCKETS, ETC., TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS PER 110.16 OF

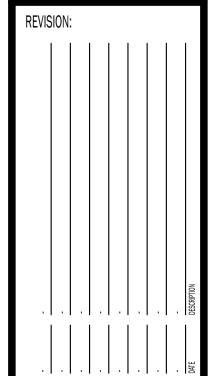


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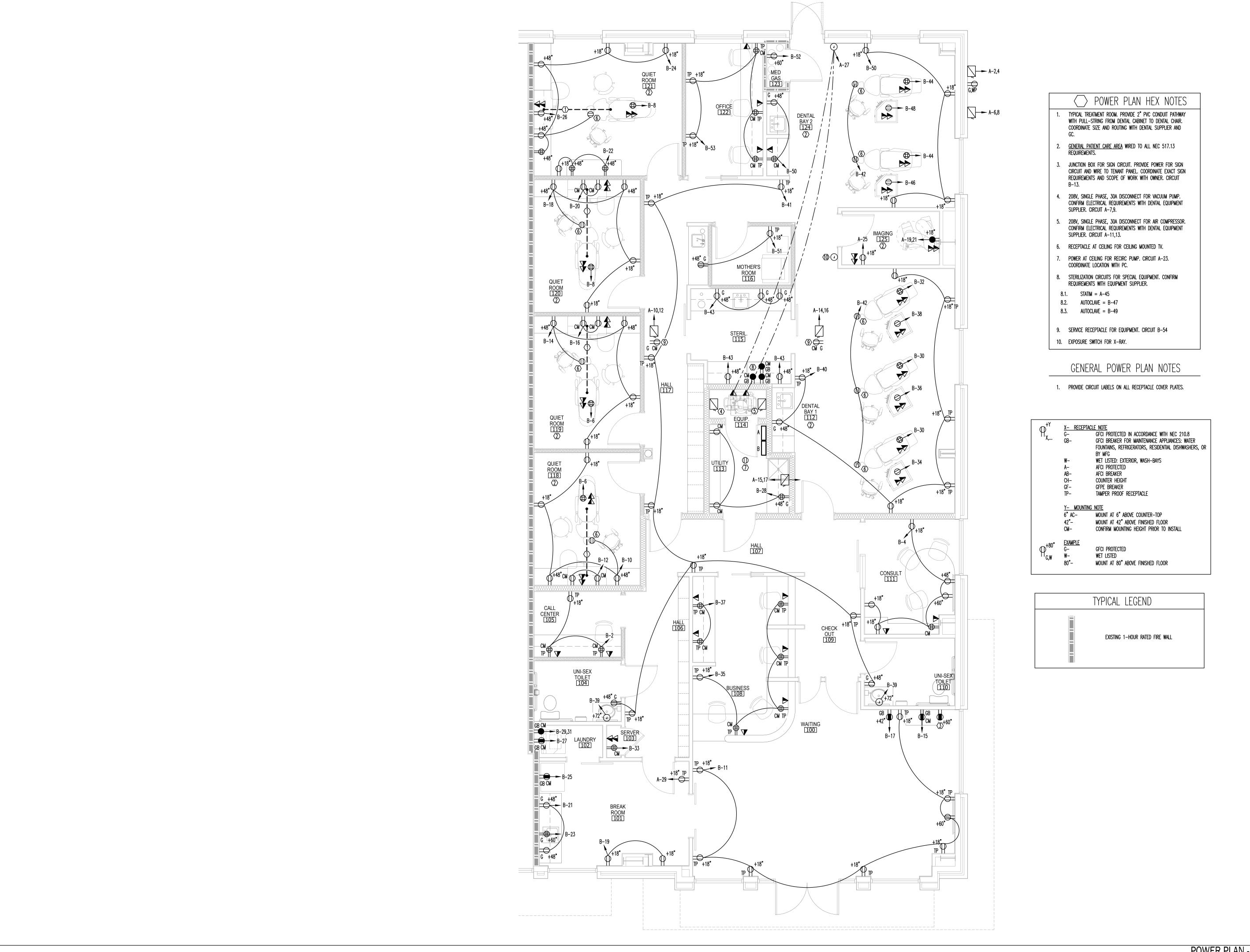
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GENERAL ELECTRICAL NOTES & SCHEDULES





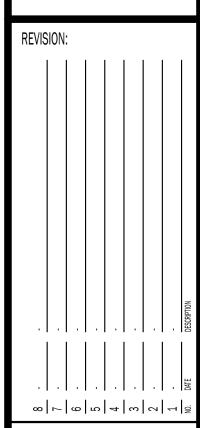


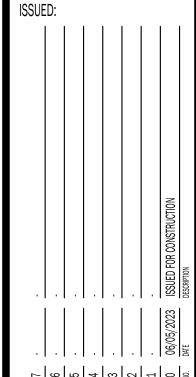




SOUTHERN SMILES
PEDIATRIC DENTISTRY

2305 NC HIGHWAY 24-87





DRAWN BY: CAT
CHECKED BY: KDC
POWER PLAN

E2





- GENERAL PATIENT CARE AREA WIRED TO ALL NEC 517.13 REQUIREMENTS.
- TIME CLOCK FOR LIGHTING CONTACTOR FOR ALL CORRIDORS, WAITING, TREATMENT BAY. CONFIRM LOCATION WITH OWNER.
- 4. FAN CONTROLLED THERMOSTATICALLY.
- 6. CEILING RECEPTACLE FOR BACK LIGHTING. CONFIRM FINAL LOCATION WITH OWNER. CONTROLLED BY SCONCE SWITCH IN ROOM.

GENERAL LIGHTING PLAN NOTES

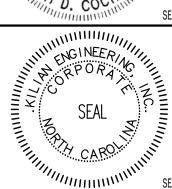
1. EMERGENCY AND EXIT LIGHTS TO BE WIRED TO NEAREST LIGHTING CIRCUIT SERVING SAME ROOM. WIRED AHEAD OF ALL CONTROLS.

TYPICAL LEGEND

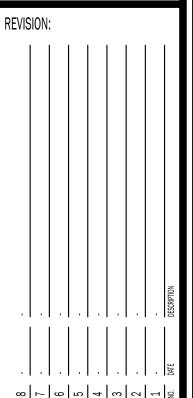
EXISTING 1-HOUR RATED FIRE WALL

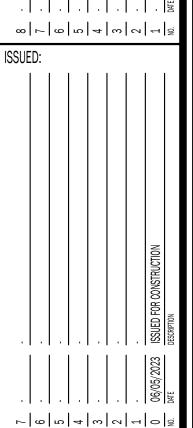
Kilian Engineering,





SOUTHERN SMILES
PEDIATRIC DENTISTRY





DRAWN BY: CAT CHECKED BY: KDC LIGHTING PLAN

			PAN	EL A (P	112)			
CKT	LOAD	BKR	LOAD kVA	PH	LOAD kVA	BKR	LOAD	СКТ
1			14. 10	A	3. 54			2
3	Panel a	200/3	12. 20	B	3, 54	60/2	HP-1	4
5	····· ···		18. 10	C	3, 54			6
T)			2. 08	Α	3. 54	60/2	HP-2	8
9	VAC-1	30/2	2. 08	В	4. 58	45.00		10
11)	OFFID 4	20.40	2, 08	С	4. 58	45/2	AHU−1	12
13	C□MP-1	30/2	2, 08	Α	4. 58	45./2	ALILL O	14
15	WH-1	30/2	2. 25	В	4. 58	45/2	AHU-2	16
17	MU_1	30/2	2. 25	С	0, 00		SPACE	18
19	IMAGING UNIT	20/2	1. 60	A	0, 00		SPACE	20
21)	IMMUINU ONII	20/2	1. 60	В	0, 00		SPACE	22
23	RECIRC PUMP	20/1	0. 25	С	0, 00		SPACE	24
25	IMAGING UNIT CPU	20/1	0. 18	Α	0. 00		SPACE	26
27	MASTER CONTROL FOR VAC + COMP	20/1	0. 25	В	0, 00		SPACE	28
29	CHARGING STATION	20/1	0. 18	С	0, 00		SPACE	30
31	SPACE		0, 00	Α	0, 00		SPACE	32
33	SPACE		0, 00	В	0, 00		SPACE	34
35	SPACE		0, 00	С	0, 00		SPACE	36
37	SPACE		0, 00	A	0, 00		SPACE	38
39	SPACE		0, 00	В	0, 00		SPACE	40
41	SPACE		0, 00	С	0, 00		SPACE	42
			kVA	PH	AMPS			
			31. 7	A	264			
			31. 1	В	259			
			31. 0	С	258			
		VOLTAG	E/PHASE		208Y/1	20V, 3P, 4W		
		BUS	RATING		400A			
	MAIN CIRCUIT	BREAKER	RATING		MLD			
		AIC	RATING		22K			
	SERVICE	ENTRANCI	E RATED		ND			
		EN	CLOSURE		NEMA 1			
		M	JUNTING		SURFAC	 E		

COORDINATE EQUIPMENT BOOST TRANSFORMER NECESSITY WITH EQUIPMENT SUPPLIER.

			PAN	EL B (P	112)			
CKT	LOAD	BKR	LOAD kVA	PH	LOAD kVA	BKR	LOAD	
1	PATIENT CARE AREA LTS	20/1	1. 27	A	0, 90	20/1	CALL CENTER RECEPTACLES	_
(3)	ENTRY + CORRIDOR LTS	20/1	1. 65	В	1. 26	20/1	CONSULT RECEPTACLES	_
5	DFFICE + STDRAGE LTS	20/1	1. 41	С	0. 72	20/1	QUIET ROOM 118 + 119 CHAIRS	_
7	EF-4, 5, 6	20/1	0. 36	Α	0. 72	20/1	QUIET ROOM 120 + 121 CHAIRS	_
9	OVERHEAD DENTAL LIGHTS	20/1	1. 44	В	0. 9	20/1	QUIET ROOM 118 RECEPTACLES	_
11	WAITING GENERAL RECEPTACLES	20/1	1. 44	С	0, 36	20/1	QUIET ROOM 118 REAR CABINET	_
13	INTERIOR SIGN	20/1	1. 20	Α	0, 90	20/1	QUIET ROOM 119 RECEPTACLES	_
(15)	DRINKING FOUNTAIN W/BOTTLE FILLER	20/1	0, 50	В	0. 36	20/1	QUIET ROOM 119 REAR CABINET	_
(17)	BELOW COUNTER REFRIGERATOR	20/1	0. 50	С	0. 90	20/1	QUIET ROOM 120 RECEPTACLES	_
19	BREAK ROOM GENERAL RECEPTACLES	20/1	0. 36	Α	0. 36	20/1	QUIET ROOM 120 REAR CABINET	_
21	BREAK ROOM COUNTER RECEPTACLES	20/1	0. 36	В	0. 90	20/1	QUIET ROOM 121 QUAD CABINET	_
23	Break Room Quad Receptacle	20/1	0. 36	С	1. 62	20/1	QUIET ROOM 121 RECEPTACLES	_
(25)	BREAK ROOM REFRIGERATOR	20/1	0. 50	Α	0. 18	20/1	QUIET ROOM 121 REAR CABINET	_
27	LAUNDRY - WASHER	20/1	0. 18	В	0. 72	20/1	UTILITY RECEPTALCES	_
29			2. 60	С	0. 72	20/1	DENTAL BAY 1 - CHAIR 1 + 2	_
31)	LAUNDRY - DRYER	30/2	2, 60	Α	0. 36	20/1	DENTAL BAY 1 - CHAIR 3	_
33	SERVER	20/1	0. 36	В	0. 18	20/1	DENTAL BAY 1 - CART 1	_
35	BUSINESS RECEPTACLES	20/1	1. 62	С	0. 18	20/1	DENTAL BAY 1 - CART 2	_
37	BUSINESS BACK COUNTER RECEPTACLES	20/1	0. 72	Α	0. 18	20/1	DENTAL BAY 1 - CART 3	_
39	TLT - LED MIRRORS	20/1	0. 36	В	1. 26	20/1	DENTAL BAY 1 RECEPTACLES	
41	HALL + TLT RECEPTACLES	20/1	1. 62	С	0, 90	20/1	DENTAL BAY 1 + 2 TVs	_
43	STERIL RECEPTACLES	20/1	0, 90	Α	0, 72	20/1	DENTAL BAY 2 CHAIR 1 + 2	
45	MITATS	20/1	1. 00	В	0. 18	20/1	DENTAL BAY 2 - CART 1	_
47	AUTOCLAVE	20/1	1. 00	С	0. 18	20/1	DENTAL BAY 2 - CART 2	_
49	AUTOCLAVE	20/1	1. 00	Α	1. 26	20/1	DENTAL BAY 2 RECEPTACLES	_
51	MOTHER'S ROOM RECEPTCLE	20/1	0. 36	В	0. 18	20/1	MED GAS RECEPTACLE	
53	OFFICE RECEPTACLES	20/1	1. 44	С	0, 54	20/1	SVC RECEPTACLES	
		Į.	kVA	PH	AMPS			_
			14. 5	A	121			
			12. 2	В	101			
			18. 1	С	151			_
		VIII TAGI	E/PHASE		208Y/1	20V, 3P, 4	<u> </u>	_
			RATING		200A	= : / = : / !		_
	MAIN CIRCUIT :				MLO			_

SERVICE ENTRANCE RATED

ENCLOSURE

MOUNTING

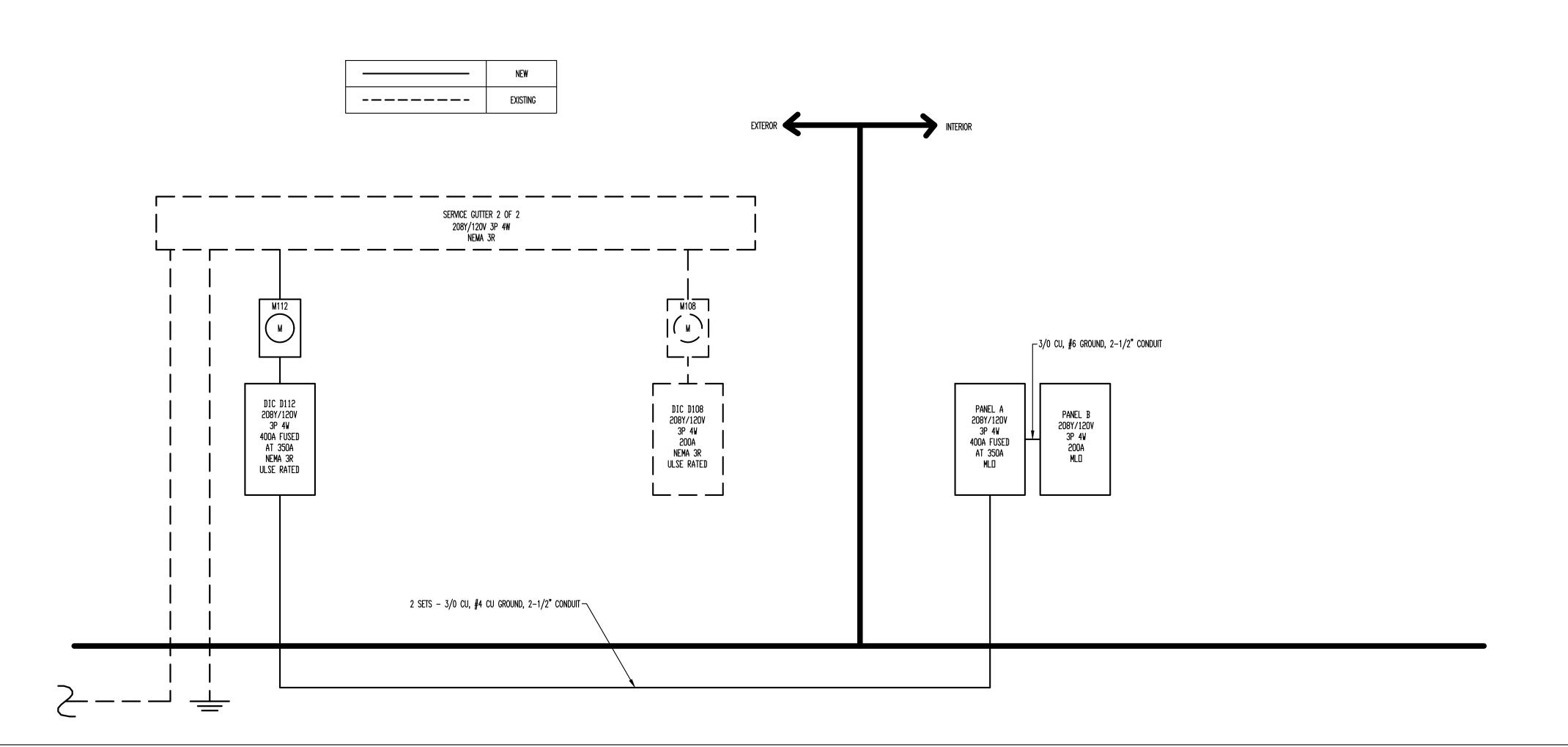
	BREAKER F	EEDER SCHEDULE	
AMPS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
20A	#12	#12	1/2*
25A	#10	#10	3/4"
30A	#10	#10	3/4"
40A	#8	#10	1"
50A	#8	#10	1"
100A	#3	#8	1 1/2*
200A	3/0	#6	2 1/2*
350A	500 MCM	#3	4"
400A	2 SETS - 3/0	#3	2 1/2"

CIRCUIT. NEUTRAL MAY BE DELETED IF NOT REQUIRED FOR INDIVIDUAL PIECES.

	DEMAND	kVA				NEC	
EQUIPMENT	FACTOR	Α	В	С	LOAD kVA	REFERENCE	NDTES/CALCULATIONS
LIGHTING	125%	1. 34	1. 34	1. 34	4. 02	220. 12	3096 SF X 1.3 VA/SF
RECEPTACLES < 10 kVA	100%	3. 33	3, 34	3, 33	10. 00	220. 44	
RECEPTACLES > 10 kVA	50%	4. 17	2. 86	6, 69	13. 71	220. 44	
HVAC	100%	11. 66	12. 70	8. 12	32. 48		BASED ON MCA
WATER HEATER	125%	-	2. 81	2. 81	5, 63	422. 13	STORAGE TANK <120 GAL @ 125%
SIGN	100%	1. 20			1. 20	220. 14(F)	
DENTAL EQUIPMENT	100%	6. 94	6, 73	4. 78	18. 45		BASED ON MCA
DEMAND KVA	PER PHASE	28. 64	29. 78	27. 07			
DEMAND AMPS	PER PHASE	239	248	225			

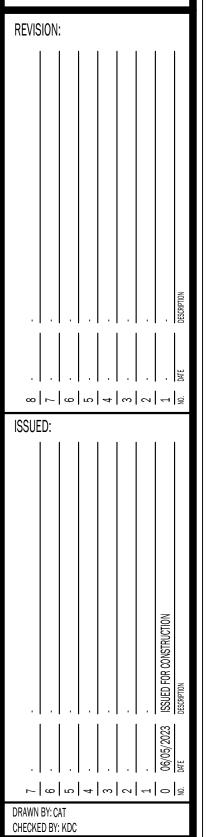
THE CALCULATED LIGHTING LOAD EXCEEDS THE CONNECTED LIGHTING LOAD.

PANEL SCHEDULES - NOT TO SCALE



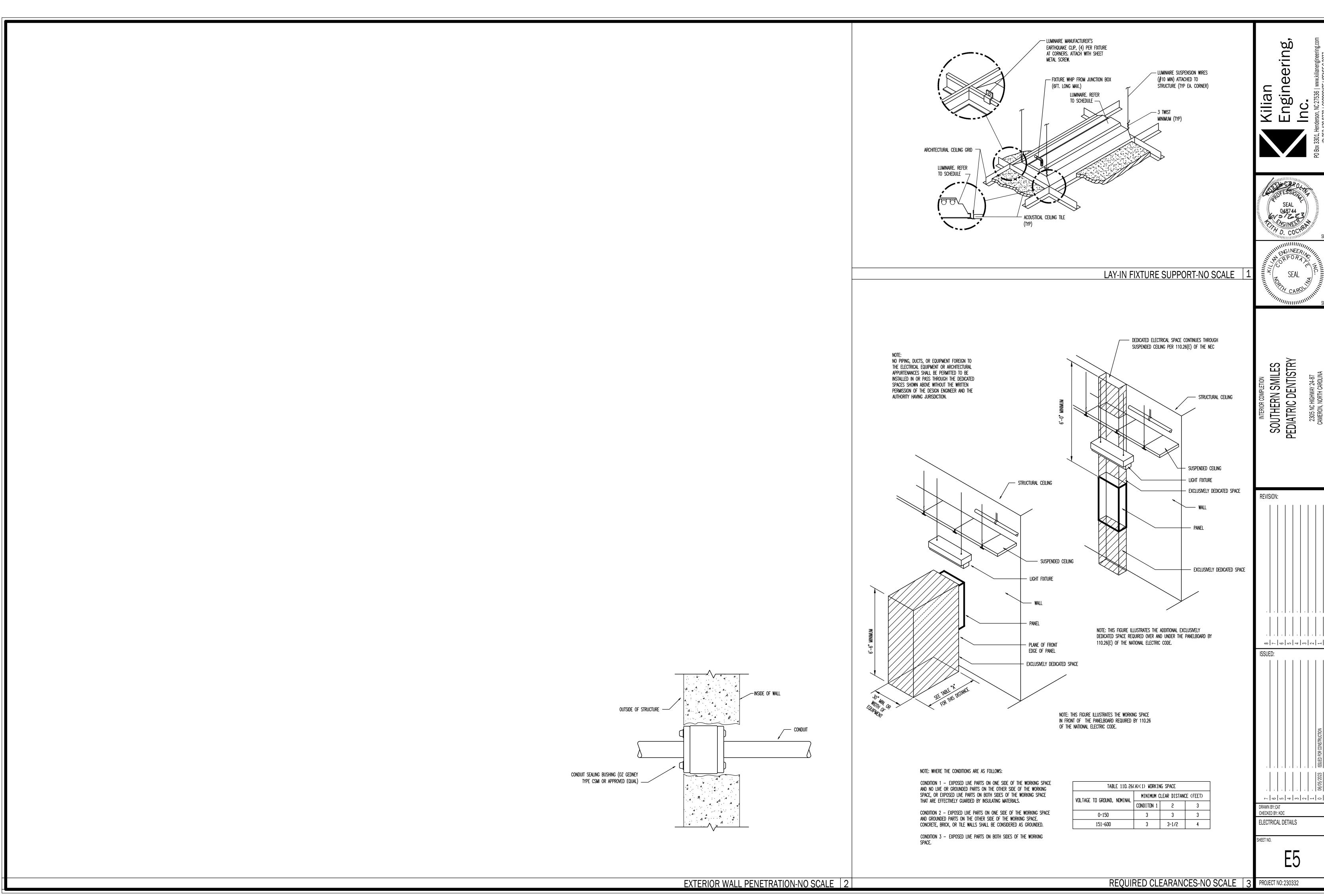
WIRED THROUGH TIME CLOCK

Kilian Engineering, SOUTHERN SMILES
PEDIATRIC DENTISTRY



ELECTRICAL RISERS & SCHEDULES

ELECTRICAL RISER - NOT TO SCALE | 2 PROJECT NO: 230332





LVL 1 PLUMBING

MEDGAS DETAILS

DETAILS

LVL 1 MEDGAS PLAN

ABBREVIATION LEGEND

- AFF ABOVE FINISHED FLOOR
- DR SUPPLIED BY DOCTOR
- EC ELECTRICAL CONTRACTOR
 ER EXISTING RELOCATED
- EX EXISTING
- FT FUTURE

DP110

DP111

DX110

DX111

- GC GENERAL CONTRACTOR
- MTD MOUNTED
- NC NO CHANGE
- NIC NOT INCLUDED
- NIS NOT IN SCOPE NW NEW
- PC PLUMBING CONTRACTOR
- PD PATTERSON DENTAL TYP TYPICAL
- VFY VERIFY
- VIF VERIFY IN FIELD

PATTERSON DENTAL:

PATTERSON DENTAL'S RESPONSIBILITIES WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- PATTERSON DENTAL WILL PROVIDE A SET OF DENTAL SPECIFIC SHOP DRAWINGS TO AID THE CONTRACTOR AND/OR ARCHITECT OF THE OWNER'S CHOOSING IN THE CONSTRUCTION OF THE OWNER'S DENTAL OFFICE. THESE DRAWINGS WILL PROVIDE CRITICAL DENTAL LOCATIONS OF ALL DENTAL EQUIPMENT. WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 2. PATTERSON DENTAL WILL ASSUME NO RESPONSIBILITY FOR DEVIATIONS FROM THE DENTAL DRAWINGS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN ENDORSEMENT.
- PATTERSON DENTAL'S REPRESENTATIVES WILL PROVIDE ASSISTANCE AS NEEDED TO THE CONTRACTOR AND/OR ARCHITECT WITH PROPER ADVANCE NOTICE.
- 4. A PRE-CONSTRUCTION MEETING BETWEEN PATTERSON DENTAL'S REPRESENTATIVES AND THE CONTRACTOR, ARCHITECT, AND SUB-CONTRACTORS TO INCLUDE MECHANICAL, PLUMBING, AND ELECTRICAL IS REQUIRED. DENTAL SPECIFIC TEMPLATES AND SPECIFIC CONSTRUCTION REQUIREMENTS WILL BE PROVIDED DURING THIS MEETING.
- 5. PATTERSON DENTAL'S REPRESENTATIVES WILL MAKE PERIODIC VISITS TO THE JOB SITE AT CRITICAL POINTS IN THE CONSTRUCTION PROCESS. THE CONTRACTOR IS REQUIRED TO INFORM PATTERSON WHEN INSPECTIONS OF PLUMBING, WIRING, AND BACKING IN THE WALLS CAN BE PERFORMED PRIOR TO BACKFILLING TRENCHES, POURING OF THE SLAB, SEALING PARTITIONS AND INSTALLING CEILINGS.
- 6. PATTERSON DENTAL'S REPRESENTATIVES WILL COORDINATE WITH THE CONTRACTOR TO INSTALL THE DENTAL EQUIPMENT AS LAID OUT IN THE INSTALLATION GUIDELINES AT A DATE AGREED UPON BY THE CONTRACTOR AND PATTERSON. A FINAL INSPECTION PRIOR TO THE INSTALLATION OF THE DENTAL EQUIPMENT WILL BE PERFORMED TO ENSURE THAT ALL PLUMBING, ELECTRICAL AND MECHANICAL CONSTRUCTION IS COMPLETE. ALL FLOORING, PAINTING AND CEILING WORK MUST BE COMPLETED PRIOR TO EQUIPMENT INSTALLATION.
- 7. THE CONTRACTOR AND SUB-CONTRACTORS ARE TO PROVIDE FINAL HOOK UP TO ALL DENTAL EQUIPMENT AS SET FORTH THE INSTALLATION GUIDELINES.

BUILDING CONTRACTOR:

- 1. THE BUILDING CONTRACTOR WHO HAS ENTERED INTO A CONSTRUCTION CONTRACT WITH THE OWNER IS RESPONSIBLE FOR ALL WORK DEFINED BY THAT CONTRACT. IF THE PROJECT IS LET UNDER SEPARATE CONTRACTS TO MORE THAN ONE CONTRACTOR, THE RESPONSIBILITIES LISTED BELOW APPLY TO EACH CONTRACTOR.
- 2. THE CONTRACTOR.

 THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF THE PROJECT IN THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS TO FURNISH ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE PROJECT, THAT IS NOT SPECIFICALLY PROVIDED BY PATTERSON DENTAL, WHETHER OR NOT EACH AND EVERY ITEM IS SPECIFICALLY MENTIONED.
- 3. THE CONTRACTOR SHALL ADVISE THE OWNER OF ANY CONFLICT BETWEEN THESE DRAWINGS AND THE FIELD CONDITIONS BEFORE PROCEEDING WITH THE JOB. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF FIELD MEASUREMENTS AND CONDITIONS AND SHALL BE RESPONSIBLE FOR THE PROPER MODIFICATIONS TO ANY EXISTING WORK, PREVIOUSLY INSTALLED WORK, AND/OR OTHER TRADES. WRITTEN APPROVAL MUST BE OBTAINED FROM THE PATTERSON EQUIPMENT SPECIALIST ASSIGNED TO THE PROJECT BEFORE ANY CHANGES AND/OR DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS ARE MADE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE EXECUTION OF HIS/HER WORK AND FOR ANY CHANGES AND/OR DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER AND/OR THE PATTERSON EQUIPMENT SPECIALIST. ANY COSTS RESULTING FROM CHANGES AND/OR DEVIATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. A COMPLETE SET OF DRAWINGS MUST BE KEPT AT THE JOB SITE AT ALL TIMES AND ANY CHANGES MUST BE NOTED THEREON AND INITIALED AT THE TIME THE CHANGE OR DEVIATION IS PERFORMED.
- THE GENERAL CONTRACTOR SHALL DO ALL PATCHING TO CONFORM TO MATERIAL, TEXTURE AND SURFACE ALIGNMENT WITH THE ADJOINING SURFACE AND FINAL TOUCH UP/APPEARANCE OF ALL FINISHED SURFACES. THE CONTRACTOR SHALL ENSURE THE PROTECTION OF ALL EQUIPMENT FURNISHED UNDER HIS/HER CONTRACT AND BY OTHERS PRESENT AT THE JOB SITE.
- 6. THE CONTRACT AND BY OTHERS PRESENT AT THE SOB SITE.

 CLEAN AT ALL TIMES. DEBRIS IS TO INCLUDE, BUT NOT LIMITED TO SHIPPING CARTONS, BOXES, ETC., RESULTING FROM THE INSTALLATION OF DENTAL AND OTHER EQUIPMENT BY CONTRACTORS CONCURRENTLY ENGAGED.
- 7. THE CONTRACTOR SHALL PARTICIPATE AT ALL JOB COORDINATION MEETINGS WITH PATTERSON DENTAL AND ENSURE THE ATTENDANCE OF APPLICABLE TRADES
- 8. THE CONTRACTOR IS REQUIRED TO INFORM PATTERSON DENTAL REPRESENTATIVES OF KEY EVENTS IN THE CONSTRUCTION PROCESS WITH REASONABLE ADVANCE NOTICE, TO FACILITATE THE INSPECTION OF SAID EVENTS, I.E. BACKFILLING TRENCHES, CLOSING WALLS, POURING CONCRETE TO BURY PLUMBING AND ELECTRICAL WORK IN FLOORS AND INSTALLING CEILING TILES.
- 9. THE CONTRACTOR SHALL AFFORD THE OWNER AND SEPARATE CONTRACTORS
 REASONABLE OPPORTUNITY FOR THE INTRODUCTION AND/OR STORAGE OF THEIR
 MATERIALS AND EQUIPMENT AND EXECUTION OF THEIR WORK.

GENERAL NOTES:

- 1. THE ITEMS LISTED HERE IN THE GENERAL NOTES ARE INTENDED TO CLARIFY OVERALL GENERAL CONDITIONS FOR A SMOOTH TRANSITION BETWEEN ALL SUBCONTRACTORS, THE GENERAL CONTRACTOR, EQUIPMENT INSTALLERS, PATTERSON DENTAL AND THE OWNER FOR FINAL APPROVAL OF ALL WORK PERFORMED BY THE RESPECTIVE TRADES. THROUGHOUT THESE PLANS ARE VARIOUS DETAILS, REQUIREMENTS AND SPECIFICATIONS TO AID IN THIS PROCESS. IT IS THE RESPONSIBILITY OF EACH TRADE, CONTRACTOR AND THE OWNER TO READ ALL NOTES AND ILLUSTRATIONS THAT PERTAIN TO THEIR SPECIFIC TASK IN THE PROCESS.
- 2. MOST OF THE DENTAL UTILITY AND SPECIFICATION REQUIREMENTS ARE OUTLINED IN THE TEMPLATES AND DOCUMENTATION THAT PATTERSON WILL PROVIDE TO THE CONTRACTOR. QUESTIONS WILL ARISE ON THE JOB SITE AND MOST CAN BE ANSWERED BY TELEPHONE. THE CONTRACTOR WILL BE PROVIDED CONTACT NUMBERS FOR PATTERSON DENTAL REPRESENTATIVES TO FACILITATE TIMELY ANSWERS TO THOSE QUESTIONS. IN SOME CASES IT WILL BE NECESSARY FOR THE PATTERSON REPRESENTATIVE TO BE PRESENT AT THE JOB SITE TO ANSWER QUESTIONS OR SPOT LOCATIONS FOR DENTAL SPECIFIC ITEMS. IN THESE CASES AN APPOINTMENT WILL BE REQUIRED WITH REASONABLE ADEQUATE NOTIFICATION.
- 3. IF A JOB SITE APPOINTMENT IS REQUIRED, ALL TRADES SHOULD BE NOTIFIED OF THE APPOINTMENT SO THE OPTION OF BEING PRESENT WITH ANY QUESTIONS CONCERNING THEIR PORTION OF THE JOB CAN BE ADMINISTERED AT THAT APPOINTMENT. THE PATTERSON DENTAL REPRESENTATIVE SHOULD BE INFORMED AS TO THE MAGNITUDE OF THE APPOINTMENT PRIOR TO ARRIVAL ON THE JOB SITE IN ORDER TO ALLOW ENOUGH TIME IN THE APPOINTMENT.
- 4. THE GENERAL CONTRACTOR MUST SIGN THIS SHEET STIPULATING THAT THEY UNDERSTAND AND WILL COMPLY WITH ALL SPECIFICATIONS BEFORE ANY WORK WILL COMMENCE. A SIGNED COPY OF THE PLANS ARE TO BE RETURNED TO PATTERSON DENTAL AND A SECOND SIGNED COPY KEPT ON THE JOB SITE AT ALL TIMES.
- THE PATTERSON DENTAL REPRESENTATIVE SHALL GIVE INSTRUCTIONS TO THE GENERAL CONTRACTOR ONLY. ALL COMMUNICATIONS AND COORDINATION WITH TRADESMEN SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS PREDETERMINED TO BE OTHERWISE.
- 6. ALL ELECTRICAL, MECHANICAL AND PLUMBING CONNECTIONS TO DENTAL EQUIPMENT WILL BE PERFORMED BY THE APPLICABLE TRADE RESPONSIBLE. INSTALLATION PERMITS, IF REQUIRED, WILL BE OBTAINED BY THE TRADES THAT PROVIDE THAT SERVICE.
- 7. IF NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING A MED GAS CERTIFIED PLUMBING SUB-CONTRACTOR FOR ANY LEVEL 3 NITROUS-OXYGEN CONSCIOUS SEDATION SYSTEM DETAILED IN THESE PLANS. ANY NITROUS OXIDE SYSTEM DESIGN SHOWN ON THESE PLANS IS TO BE USED AS AN ILLUSTRATION ONLY FOR THE PURPOSE OF LOCATING END USER OUTLET STATIONS, CYLINDER ROOM MANIFOLD AND ALARM PANEL. THE FINAL TRUNK SYSTEM INSTALLATION SHALL STRICTLY ADHERE TO ONLY MECHANICALLY ENGINEERED DRAWINGS, IF SUPPLIED.
- 8. THE PLUMBING SUB-CONTRACTOR SHALL PROVIDE MED GAS CERTIFICATION IN ACCORDANCE WITH ANY REQUESTS BY THE OWNER, CONTRACTOR, BUILDING DEPARTMENT OR PATTERSON DENTAL PRIOR TO COMMENCING WORK ON ANY TYPE OF CUSTOMER INSTALLED NITROUS OXIDE SYSTEM BEING USED IN THE CONSTRUCTION PROJECT.
- 9. ALL PLUMBING AND ELECTRICAL LINES TO BE CONCEALED UNLESS OTHERWISE
- 10. ALL LABOR AND MATERIALS NECESSARY FOR CHANGES IN EXISTING PLUMBING, CARPENTRY, AND ELECTRICAL WORK MUST BE DONE AND SUPPLIED BY THE
- CONTRACTOR AND IS NOT INCLUDED IN THE COST OF THE DENTAL EQUIPMENT.

 11. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND DO ALL PATCHING AFTER ROUGHING IN IS COMPLETED.
- 12. ALL ROUGH IN AND FINISH WORK FOR DENTAL EQUIPMENT IS TO BE ACCORDING TO TEMPLATES FURNISHED BY THE MANUFACTURERS OF THE EQUIPMENT BEING INSTALLED. A REPRESENTATIVE OF PATTERSON DENTAL WILL POSITION THE TEMPLATES IN THEIR PROPER LOCATIONS, AT WHICH TIME ALL SPECIFICATIONS ON THE PLANS WILL BE EXPLAINED TO THE CONTRACTOR OR SUB-CONTRACTOR(S). ALL SPECIFIED SIZES OF PIPES, TUBING, AND/OR FITTINGS, ETC., MUST BE RIGIDLY FOLLOWED AS WELL AS PROPER HEIGHTS MARKED. ANY INFRACTIONS ON SIZES OR HEIGHTS OF PIPES, TUBING AND/OR FITTINGS WILL HAVE TO BE CORRECTED BEFORE THE EQUIPMENT CAN BE INSTALLED AND SUCH EXTRA EXPENSE WILL BE
- THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUB-CONTRACTOR.

 13. THE DOCTOR/OWNER SHALL DESIGNATE RESPONSIBILITY FOR PROVIDING AND INSTALLING CABINETS AND COUNTERTOPS (OTHER THAN THOSE SPECIFIED AND/OR CONTRACTED BY PATTERSON DENTAL).
- 14. THE DOCTOR SHALL MAKE ARRANGEMENTS FOR INSTALLATION OF NON-DENTAL SYSTEMS BEFORE WALLS ARE CLOSED.
- 15. PATTERSON DENTAL SHALL NOT BE HELD RESPONSIBLE FOR MULTIMEDIA SYSTEMS SUCH AS ENTERTAINMENT TVS, MONITORS, NETWORK COMPUTER SYSTEMS OR ANY ITEMS NOT SHOWN ON THESE PLANS.
- 16. GC MUST CONFIRM ALL MEASUREMENTS OF SPACE CONDITIONS PRIOR TO STARTING DEMOLITION
- 17. GC SHOULD NOTIFY PATTERSON EQUIPMENT SPECIALIST 1(ONE GC MUST CONFIRM ALL MEASUREMENTS OF SPACE CONDITIONS PRIOR TO STARTING DEMOLITION) WEEK PRIOR TO CLOSING OF ALL WALLS, CEILINGS, FLOORS TO ALLOW FINAL INSPECTION OF INSTALLATION.
- 18. GC IS RESPONSIBLE FOR CONFIRMING ALL UTILITIES FOR EXISTING EQ BEING MOVED FROM EXISTING LOCATION OR EQUIPMENT NOT SUPPLIED BY PATTERSON
- 19. GC IS RESPONSIBLE FOR CONFIRMING ALL UTILITIES FOR EXISTING EQ BEING MOVED FROM EXISTING LOCATION OR EQUIPMENT NOT SUPPLIED BY PATTERSON
- 20. RADIATION PROTECTION: THE DOCTOR'S ARCHITECT/GC ARE REQUIRED TO REVIEW ALL LOCAL AND NATIONAL RADIATION AND XRAY SHIELDING REQUIREMENTS AND SUBMIT AN APPLICATION FOR REGISTRATION OF IONIZING RADIATION SOURCES. PLANS MUST BE SUBMITTED TO RADIATION CONTROL PROGRAM, IF APPLICABLE, ALONG WITH OTHER INFORMATION THEY WILL PROVIDE A LETTER OF ACCEPTABLE X-RAY PROTECTION OR ADVISE OTHERWISE. THIS APPLICATION AND PLAN SHOULD BE SUBMITTED PRIOR TO WALLS GOING UP. COPY OF APPROVAL LETTER FROM LOCAL GOVERNING BODY MUST BE PROVIDED TO PATTERSON EQUIPMENT SPECIALIST AND SERVICE TECHNICIAN. NOTE: IF EXISTING X-RAYS TO BE REPLACED WITH NEW AND EXISTING SHIELDING IS TO BE REUSED ARCHITECT/GC MUST VERIFY NEEDS WITH LOCAL CODE OFFICER.



1031 MENDOTA HEIGHTS ROAD MENDOTA HEIGHTS, MN

MODIFICATIONS TO THIS SPACE TO ALLOW THE PROPER FIT & FUNCTION OF THE EQUIPMENT SUPPLIED BY PATTERSON DENTAL SHALL BE THE RESPONSIBILITY OF THE OWNER/TENANT/LANDLORD/CONTRACTOR IN REGARDS TO CODE COMPLIANCE OF STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING ISSUES. THIS INCLUDES, BUT IS NOT LIMITED TO, SUPPORT STRUCTURE FOR EQUIPMENT AND CLEARANCES IN REGARD TO SPRINKLER HEADS AND/OR ANY DEVICE OR STRUCTURE WHICH MAY IMPEDE OR CONFLICT WITH THE FUNCTION OF PATTERSON SUPPLIED EQUIPMENT. PATTERSON DENTAL SHALL NOT BEAR ANY COST TO CORRECT THESE ISSUES. PLEASE CONSULT PATTERSON FOR ASSISTANCE IN EQUIPMENT SUPPORT STRUCTURE & CLEARANCE QUESTIONS.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PATTERSON DENTAL SUPPLY AND THE USE LIMITED TO A SPECIFIED PROJECT FOR THE PERSON OR PERSONS NAMED HEREON FOR THE CONSTRUCTION OF ONE BUILDING ONLY. ANY USE OR REPRODUCTIONS OF THESE DRAWINGS ARE STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF PATTERSON DENTAL SUPPLY, INC.

WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALE DIMENSIONS AND SHALL BE VERIFIED ON THE JOB SITE.

ANY DISCREPANCIES OR CHANGES SHALL BE BROUGHT TO THE ATTENTION OF PATTERSON DENTAL SUPPLY PRIOR TO THE COMMENCEMENT OF ANY WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CURRENT AMERICAN DISABILITIES ACT, (ADA)
ACCESSABILITY GUIDELINES.
THE CONTRACTOR SHALL ALSO BE RESPOSIBLE FOR ALL REQUIRED BACKFLOW PREVENTERS.

THE CONTRACTOR SHALL COMPLY WITH ALL STATE,

CITY AND LOCAL CODES, PERTAINING TO THE

CONSTRUCTION OF THIS PROJECT.

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HELD RESPONSIBLE FOR THE USE OR MISUSE OF THE

OWNER:

Southern Smiles Pediatric Dentistry

Cameron, NC. 28326

LOCATION:

1512 NC 24-87

	<u>DRAWN BY</u>	EQUIPMENT REP:		EQUIPMENT REP #:
	KWK	Donald Grose		(919) 302-1545
	PROJECT	#:	ISSUE DATE:	
	763-99086	69	03/23/2023	

	REVI	SIONS	
REV #	SCOPE	DRAWN BY	DATE
1	Reg Set Rev	KWK	05/11/2023

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REGARDS TO CODE COMPLIANCE OF STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING ISSUES. THIS INCLUDES, BUT IS NOT LIMITED TO, SUPPORT STRUCTURE FOR EQUIPMENT AND CLEARANCES IN REGARD TO SPRINKLER HEADS AND/OR ANY DEVICE OR STRUCTURE WHICH MAY IMPEDE OR CONFLICT WITH THE FUNCTION OF PATTERSON SUPPLIED EQUIPMENT. PATTERSON DENTAL SHALL NOT BEAR ANY COST TO CORRECT THESE ISSUES. PLEASE CONSULT PATTERSON FOR ASSISTANCE IN EQUIPMENT SUPPORT STRUCTURE & CLEARANCE QUESTIONS.

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OWNER: Southern Smiles Pediatric Dentistry

LOCATION:

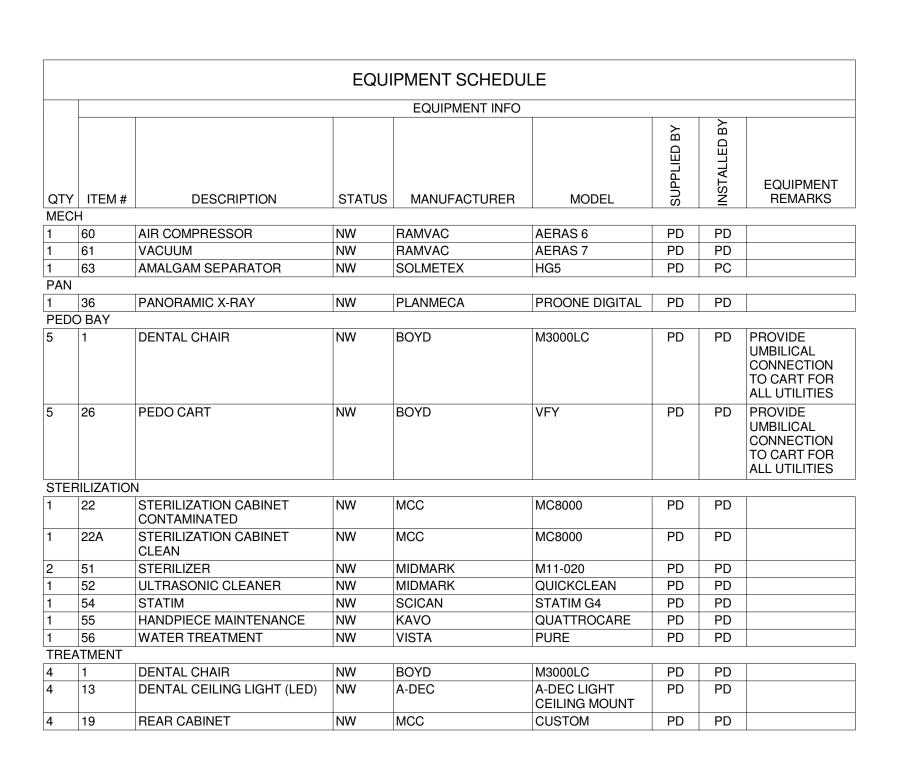
1512 NC 24-87 Cameron, NC. 28326

DRAWN BY	EQUIPMENT REP:		EQUIPMENT REP #:
KWK	Donald Grose		(919) 302-1545
PROJECT # 763-990869	"·	ISSUE DATE: 03/23/2023	

	REVISIO	ONS	
REV #	SCOPE	DRAWN BY	DATE

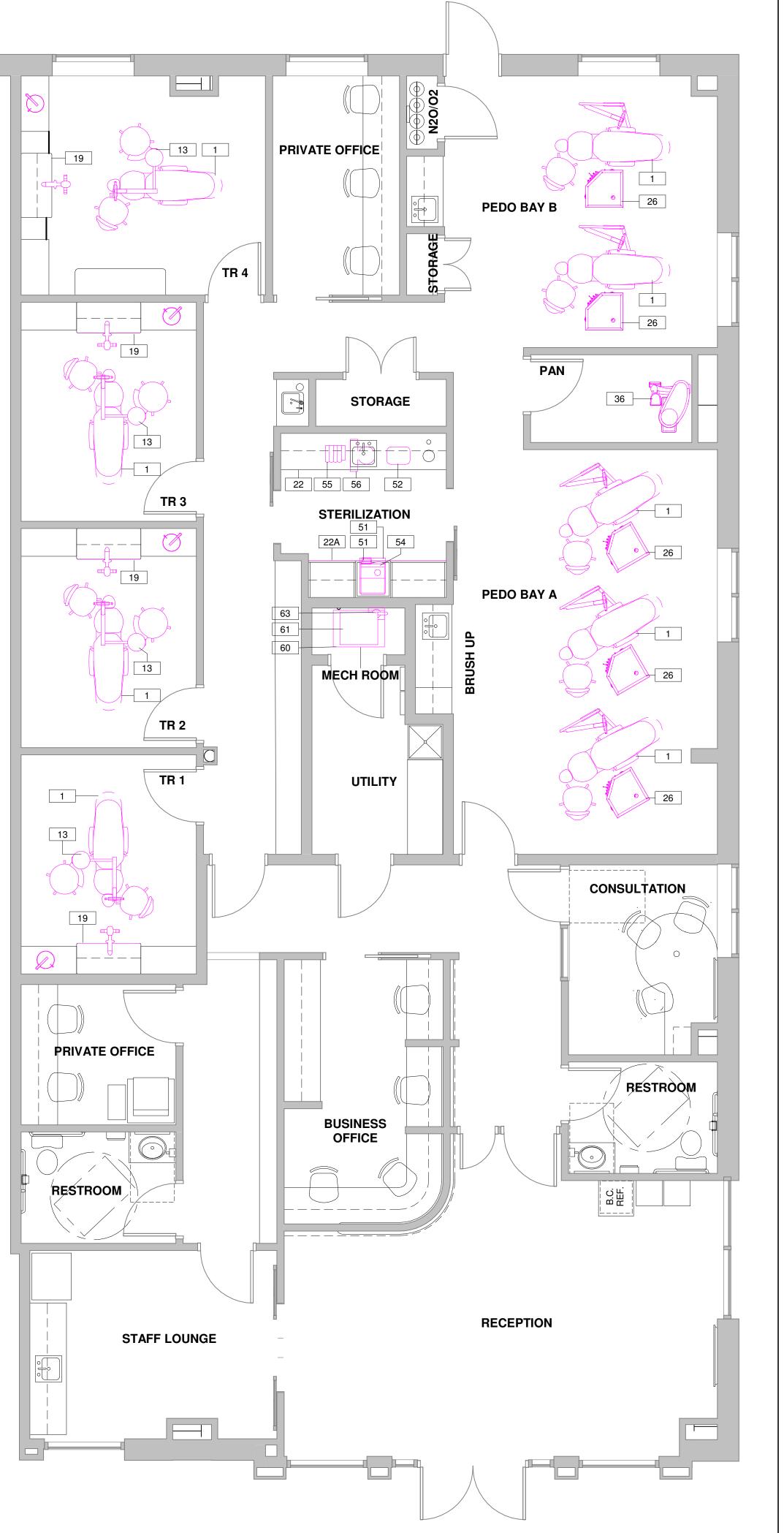
Req Set Rev	KWK	05/11/2023

CONSTRUCTION



PLAN LEGEND			
DENTAL FURNITURE & EQUIPMENT			
	DENTAL FURNITURE & EQUIPMENT EXISTING RELOCATED		
	DENTAL FURNITURE & EQUIPMENT FUTURE		
12	EQUIPMENT NUMBER TAG (NUMBERS ARE RANDOM)		

WALL LEGEND			
	EXISTING WALL		
	DEMO WALL		
	NEW WALL		
	SOUND PROOFING IN WALL		
	LEAD LINED WALL		



1) LVL 1 FLOOR PLAN 1/4" = 1'-0"

DENTAL
1031 MENDOTA HEIGHTS ROAD

MOTE:

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OWNER: Southern Smiles Pediatric Dentistry

LOCATION:

1512 NC 24-87 Cameron, NC. 28326

	DRAWN BY	EQUIPMENT REP:		EQUIPMENT REP #:
	KWK	Donald Grose		(919) 302-1545
	PROJECT #:		ISSUE DATE:	
Į	763-990869		03/23/2023	

	REVISIO	ONS	
REV #	SCOPE	DRAWN BY	DATE
π	3001 L	<u> </u>	DATE

Req Set Rev	KWK	05/11/2023

9' - 5 1/4"

BK-22

6' - 4"

10' - 0"

10' - 0"

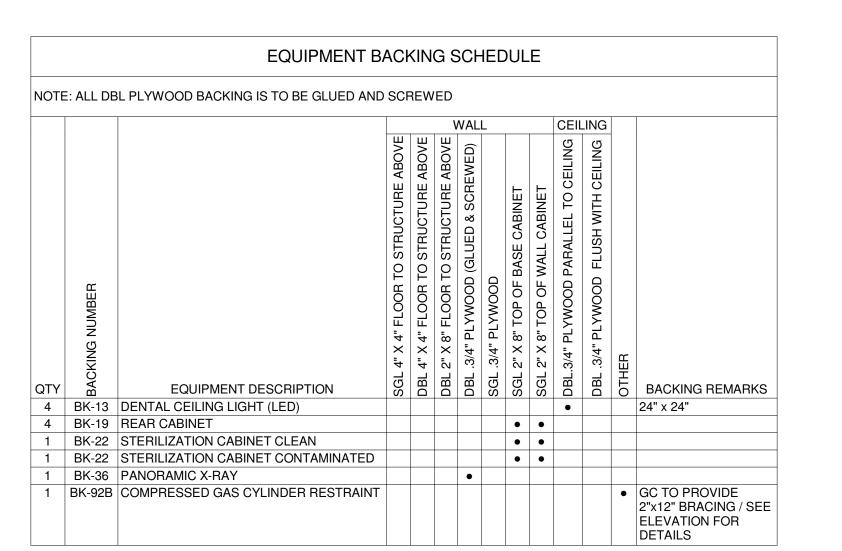
BK-19

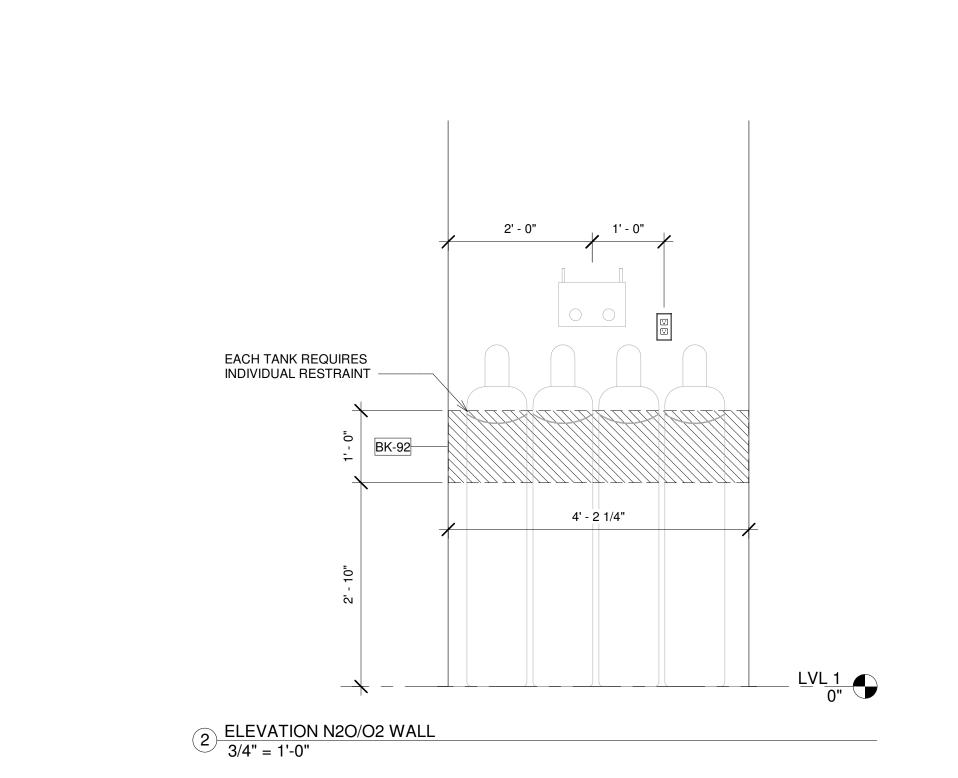
1) LVL 1 BACKING PLAN 1/4" = 1'-0"

BK-19

3' - 5" BK-13

3' - 5" BK-13





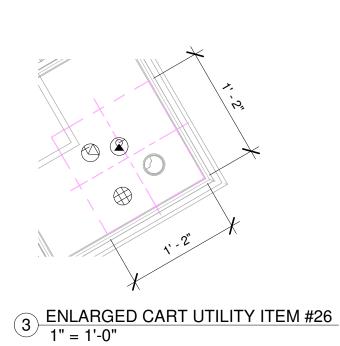
BK-36 2' - 0"

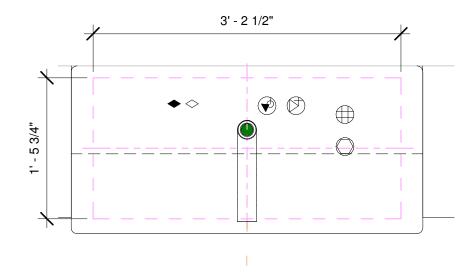
3 ELEVATION PANORAMIC WALL 3/4" = 1'-0"

5' - 0"

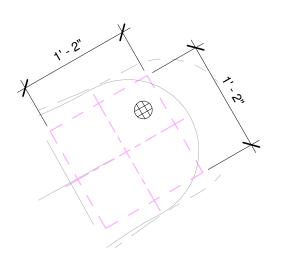
		PLUMBING SYMBOLS IN FLOOR
	ONS SHOL	LL BE INSTALLED PER STATE AND LOCAL CODES. ALL ILD BE VERIFIED WITH PATTERSON REP OR OWNER PRIOR
		HEIGHT FROM FINISHED FLOOR TO CENTER OF DEVICE ISE NOTED BELOW, IF ITEM NOT TAGGED HEIGHT IS 18" A.F.F.
QTY.	SYM.	DESCRIPTION
6		1/2" OD. TO 3/8" OD.SHUT OFF AIR CONNECTION FLOOR HEIGHT 3" A.F.F. TO CENTER UNLESS OTHERWISE NOTED
5	\bigcirc	VACUUM PIPE CONNECTION FLOOR
1	•	VACUUM RISER FLOOR

ELECTRICAL LEGEND							
	18/3 WIRE, CABLE RUN IN WALLS OR ABOVE FINISHED CEILING						
	18/4 WIRE, WIRES RUN IN WALLS OR ABOVE FINISHED CEILING						
	CAT5e OR BETTER CABLE, CABLE RUN IN WALLS OR ABOVE FINISHED CEILING						
/	MANUFACTURER CABLE, CABLE RUN IN WALLS OR ABOVE FINISHED CEILING						
= = =	ELECTRICAL CONDUIT UNDER FLOOR, SIZE AS INDICATED ON PLAN						
=======	ELECTRICAL CONDUIT ABOVE CEILING, SIZE AS INDICATED ON PLAN						

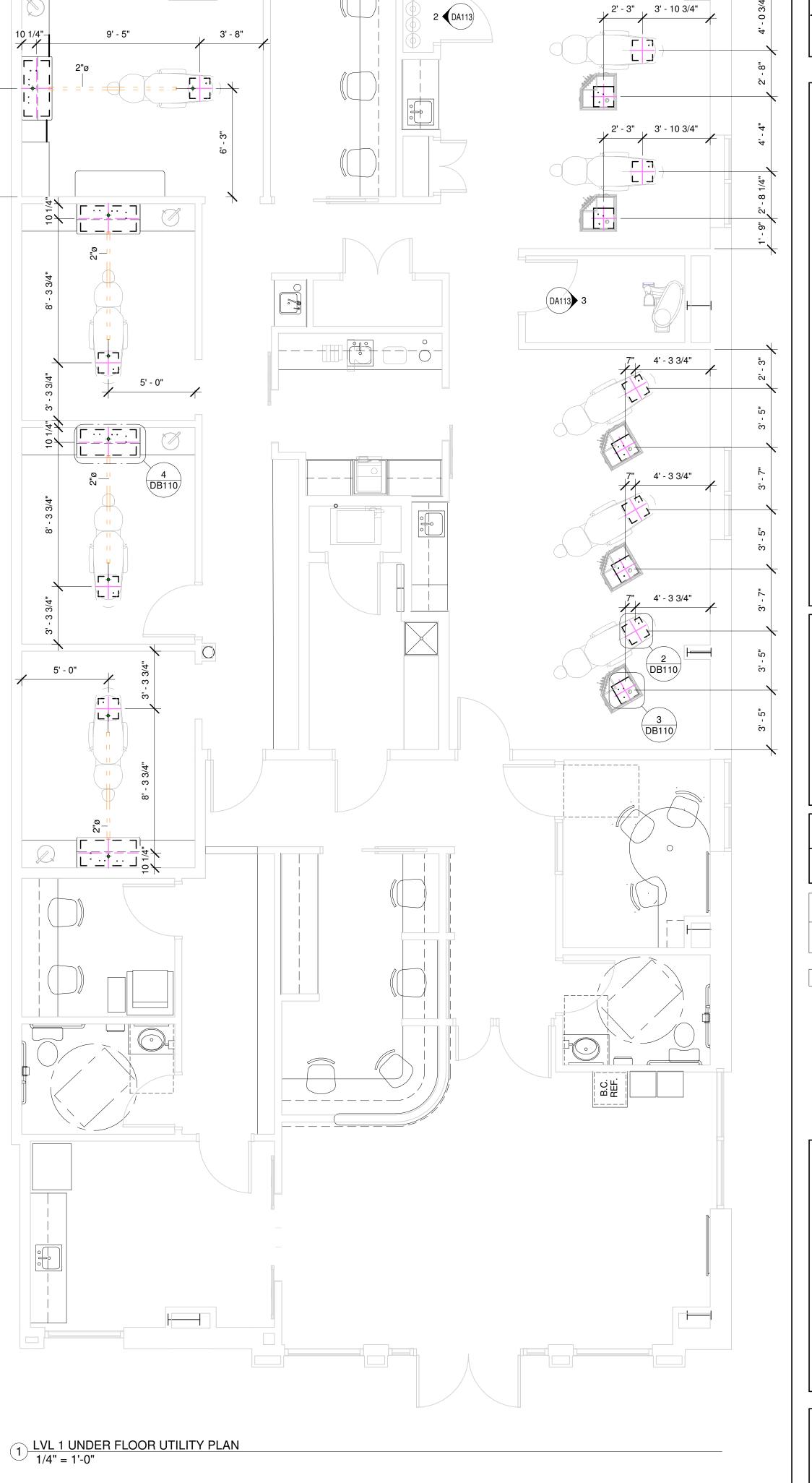




4 ENLARGED REAR TREATMENT UTILITY ITEM #19
1" = 1'-0"



2 ENLARGED CHAIR UTILITY ITEM #1
1" = 1'-0"





MENDOTA HEIGHTS, MN

MOTE:

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Southern Smiles Pediatric Dentistry

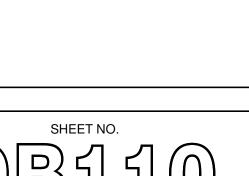
LOCATION:

1512 NC 24-87 Cameron, NC. 28326

KWK Donald Grose (919) 302-1545 PROJECT #: ISSUE DATE: 763-990869 03/23/2023	DRAWN BY	<u>EQU</u>	IPMENT REP:	EQUIPMENT REP #:
	KWK	D	onald Grose	(919) 302-1545

	REVISIO	ONS	
REV #	SCOPE	DRAWN BY	DATE

KWK 05/11/2023 Req Set Rev



NOT FOR CONSTRUCTION

ELECTRICAL SYMBOLS

DEVICE UNLESS OTHERWISE NOTED BELOW, IF ITEM NOT TAGGED

ALL DEVICES SHALL BE INSTALLED PER STATE AND LOCAL CODE. ALL LOCATIONS SHOULD BE VERIFIED WITH PATTERSON REP OR OWNER PRIOR TO PLACEMENT. +XX" - INDICATES HEIGHT FROM FINISHED FLOOR TO CENTER OF

HEIGHT IS 18" A.F.F. QTY. SYM. DESCRIPTION

120v DUPLEX DEDICATED OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE 120v FLUSH DUPLEX OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE 120v QUAD OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE

220v SINGLE OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE J-BOX CLG, IF TAG NOT PRESENT HEIGHT IS 6" ABOVE J-BOX CLG, IF TAG N FINISHED CEILING

J-BOX WALL, IF TAG NOT PRESENT HEIGHT IS 18"
A.F.F.

LOW VOLTAGE SYMBOLS

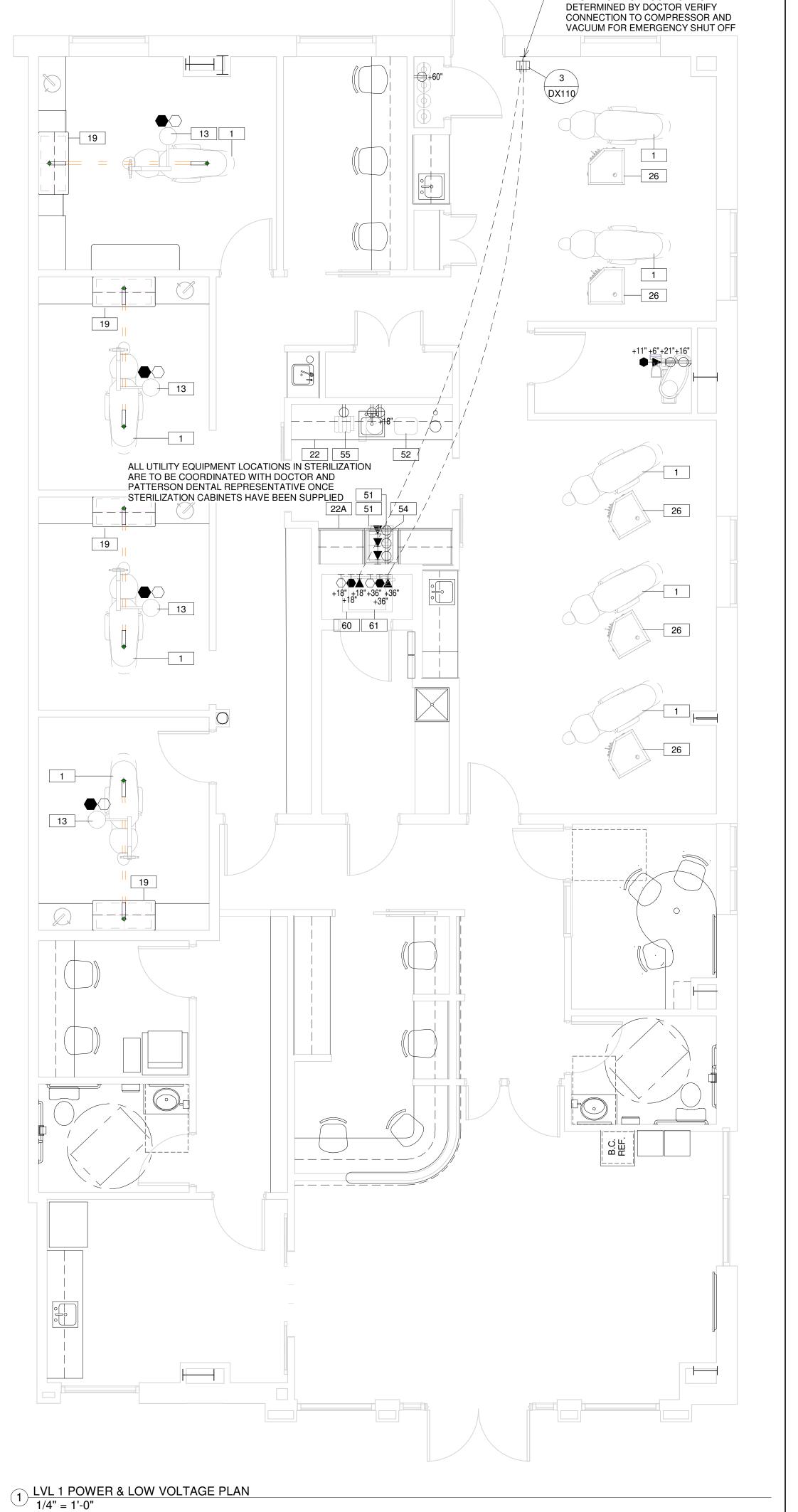
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+XX" - INDICATES HEIGHT FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED BELOW, IF ITEM NOT TAGGED HEIGHT IS 18" A.F.F.

QTY.	SYM.	DESCRIPTION
8		
6	Ŧ	DATA DEVICE WALL, IF TAG NOT PRESENT HEIGHT IS 18 A.F.F.
4		J-BOX CLG LV, IF TAG NOT PRESENT HEIGHT IS 6" ABOV FINISHED CEILING
3	Ŧ	J-BOX WALL,LOW VOLTAGE, IF TAG NOT PRESENT HEIG 18" A.F.F
1	ф	MASTER SWITCH WALL, IF TAG NOT PRESENT HEIGHT IS A.F.F. TO CENTER

ELE	CTRICAL LEGEND
	18/3 WIRE, CABLE RUN IN WALLS OR ABOVE FINISHED CEILING
	18/4 WIRE, WIRES RUN IN WALLS OR ABOVE FINISHED CEILING
	CAT5e OR BETTER CABLE, CABLE RUN IN WALLS OR ABOVE FINISHED CEILING
,	MANUFACTURER CABLE, CABLE RUN IN WALLS OR ABOVE FINISHED CEILING
_ = =	ELECTRICAL CONDUIT UNDER FLOOR, SIZE AS INDICATED ON PLAN
=======	ELECTRICAL CONDUIT ABOVE CEILING, SIZE AS INDICATED ON PLAN

						EQL	JIPME	NT	POW	/EF	R & LOW VOLTAGE SCHEDULE								
GEN	ERAL NO	DTES																	
ALL	DEVICES	S ARE TO BE INSTALLED PER STATE AND LOCA	AL CODES.																
		EQUIPMENT INFO									ELECTRICAL INFO						IOW	VOI T	AGE INFO
		EQUI WEIVI IVI O			POV	VER	CONN	IECT	ION T					Т					AGE IN O
OTY	ITEM#	DESCRIPTION	STATUS	EC CONNECTION BY	VOLTS	ΔMPS	E OUTLET X OUTLET	OUTLET		DEDICATED POWER		LV CONNECTION BY		> I (1" EMPTY CONDUIT	18/4 WIRE	JBOX LV CAT5e OR BETTER	MFG CABLE MONITOR CABLE	LV REMARKS
9	1	DENTAL CHAIR	NW	EС	120v	7.0	S D	•		- د	5 ELECTRICAL TEMATIKO	EC		<u>က</u>			7 0	2 2	EVITEIMATIKO
4	13	DENTAL CEILING LIGHT (LED)	NW		120v	3	•		•		EC TO PROVIDE ELECTRICAL WHIP FROM ELECTRICAL BOX TO LIGHT FIXTURE.	EC		•	•	,	•		JBOX TO BE MOUNTED ABOVE FINISHED CEILING WITHIN 2' OI FIXTURE
4	19	REAR CABINET	NW	EC	120v	20.0	•				EC TO LEAVE MIN 3' FLEXIBLE CONDUIT	EC	•	•			•		RUN LOW VOLTAGE WIRES AN OR CABLES TO LOCATIONS INDICATED ON PLANS
1	22	STERILIZATION CABINET CONTAMINATED	NW	EC	120v	20.0	•		•		EC TO LEAVE MIN 3' FLEXIBLE CONDUIT	EC							RUN LOW VOLTAGE WIRES AN OR CABLES TO LOCATIONS INDICATED ON PLANS
1	22A	STERILIZATION CABINET CLEAN	NW	EC	120v	20.0	•		•		EC TO LEAVE MIN 3' FLEXIBLE CONDUIT	EC					•		RUN LOW VOLTAGE WIRES AN OR CABLES TO LOCATIONS INDICATED ON PLANS
5	26	PEDO CART	NW	EC	120v	20.0	•				EC TO LEAVE MIN 3' FLEXIBLE CONDUIT	EC					•		RUN LOW VOTLTAGE WIRES AND OR CABLES TO LOCATIONS INDICATED ON PLANS
1	36	PANORAMIC X-RAY	NW		120	20.0	•		•			EC		•	•		• •		
2	51	STERILIZER	NW	EC	120v	12.0	•		•		DEDICATED POWER	EC							
1	52	ULTRASONIC CLEANER	NW	EC		2.0	•		•			EC							
1	54	STATIM	NW		120v	11.0			•			EC							
1	55	HANDPIECE MAINTENANCE	NW		120v	5.0	•					F0							
1	60	AIR COMPRESSOR	NW	EC	220v	30	•		•		BREAKER SIZE 30.0 AMPS /DISCONNECT REQUIRED IF UNIT IS NOT LOCATED IN SAME ROOM AS ELECTRICAL PANEL. IF SERVICE IS ABOVE OR BELOW VOLT AGE INDICATED IN STALL A BUCK/BOOST TRANSFORMER AS REQUIRED. COORDINATE WITH EQUIPMENT SPECIALIST.			•			•		
1	61	VACUUM	NW	EC	220v	20.0	•		•		DISCONNECT REQUIRED IF UNIT IS NOT LOCATED IN SAME ROOM AS ELECTRICAL PANEL	EC		•	•)			





MASTER SWITCH LOCATION TO BE

1031 MENDOTA HEIGHTS ROAD 50 MENDOTA HEIGHTS, MN

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THE INFORMATION CONTAINED IN THESE DRAWINGS IS FOR

OWNER:

Southern Smiles Pediatric Dentistry

LOCATION:

1512 NC 24-87 Cameron, NC. 28326

<u>DRAWN BY</u>	<u>EQU</u>	IPMENT REP:	EQUIPMENT REP #:
KWK	D	onald Grose	(919) 302-1545
PROJECT 763-99086		ISSUE DATE: 03/23/2023	

REVISIONS DRAWN BY SCOPE DATE

KWK 05/11/2023 Req Set Rev

EQUIPMENT EXHAUST SCHEDULE GENERAL NOTES:: ALL ITEMS IDENTIFED AS "FT" WILL BE INSTALLED AT A FUTURE DATE. ALL UTILITIES NEED TO BE CAP AND CONCEALED FOR FUTURE USE.. ALL ITEMS WILL BE INSTALLED PER STATE AND LOCAL CODES.. EQUIPMENT INFO QTY ITEM# DESCRIPTION STATUS VENT EXHAUST REMARKS 1 60 AIR COMPRESSOR NW COMPRESSOR DESIGNED TO OPERATE AT UTILITY ROOM TEMPERATURES BETWEEN 50 AND 90 DEGREES FAHRENHEIT. MAX. ALLOWABLE INTERMITTENT UTILITY ROOM TEMPATURE IS 100

VACUUM

DEGREES FAHRENHEIT.

2" PVC SCHEDULE 80 FRESH AIR VENT REQUIRED TO

ABOVE 100°/ SEE DETAIL AN INDICATED ON PLAN

OUTSIDE. / ROOM TEMP MUST NOT BE BELOW 35° OR

-		HEIGHT FROM FINISHED FLOOR TO CENTER OF DEVICE ISE NOTED BELOW, IF ITEM NOT TAGGED HEIGHT IS 18" A
QTY.	SYM.	DESCRIPTION
8		
1	—	1/2" OD. TO 3/8" OD.SHUT OFF AIR CONNECTION WALL, HEIGHT 3" A.F.F. TO CENTER IF TAG NOT PRESENT
1		DIRECT DRAIN WALL
1	T	FRESH AIR IN MANIFOLD WALL
1	J	SHUT OFF VALVE COLD WATER WALL
1	¥	SHUT OFF VALVE HOT WATER WALL
1	¥	VACUUM PIPE CONNECTION WALL

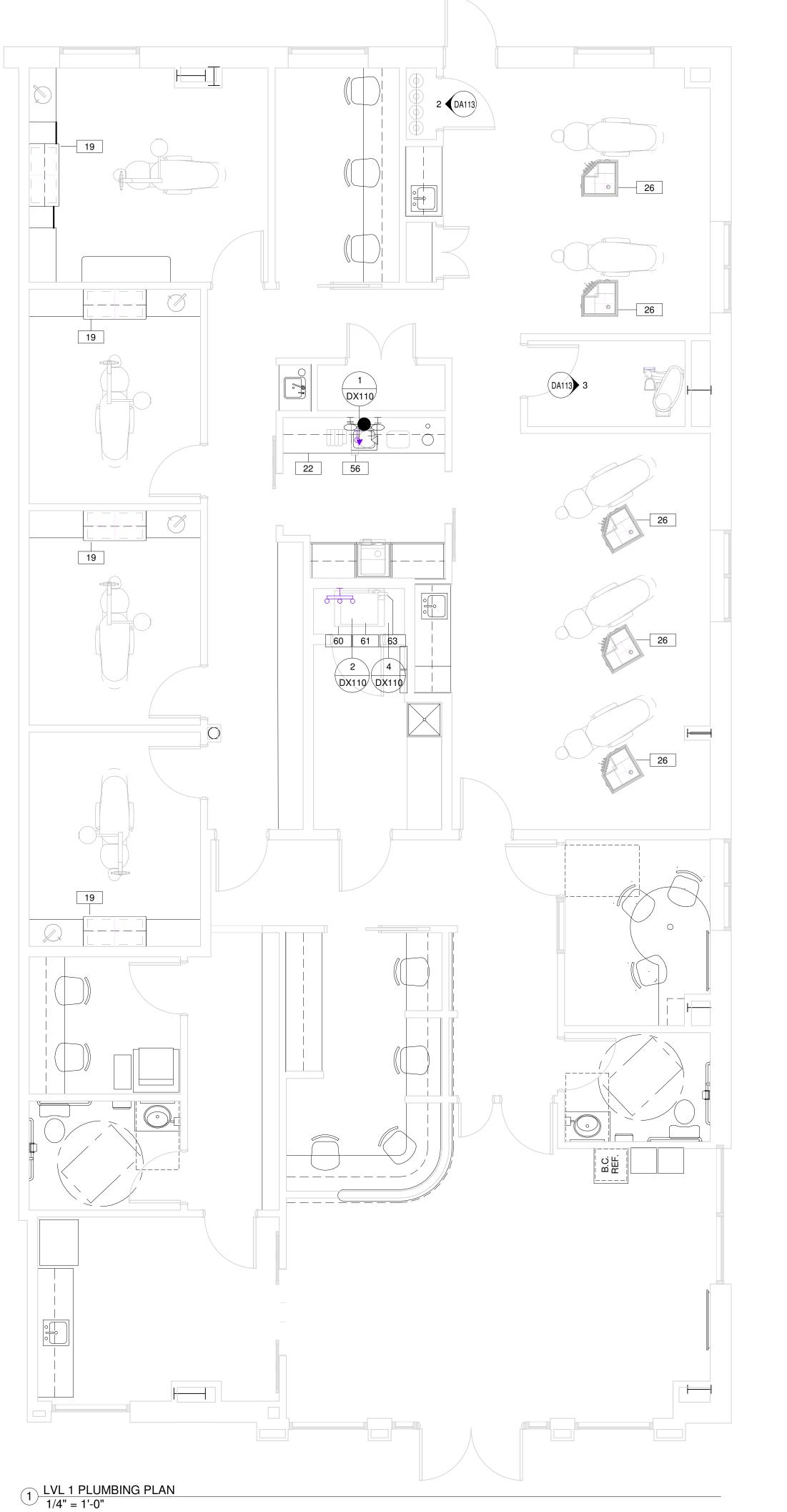
PLUMBING SYMBOLS

LOCATIONS SHOULD BE VERIFIED WITH PATTERSON REP OR OWNER PRIOR

ALL DEVICES SHALL BE INSTALLED PER STATE AND LOCAL CODES. ALL

TO PLACEMENT.

						EQUIP	MENT	ΓPL	UMBING-DENTAL COMPRESSED AIR-VAC	SCI	HEDULE				
GEN	IERAL NOTES:														
ALL	ITEMS TO BE INSTALLED PER STATE AND LOCAL COL	ES													
	PLUMBING							PL	UMBING INFO			VAC	CINFO		DENTAL COMPRESSED AIR
				SI	JPPLY	Ş	ANITAF	3Y		BIS	ERS BRAI	IN &			
ατγ	ITEM# DESCRIPTION	STATUS		WATER COPPE	WATER WATE	1" COLD WATER COPPER 3/4" COPPER TYPE M 1-1/2" PVC WASTE SCHEDULE 40	1 1	DRAIN STAND PIPE	PLUMBING REMARKS	1/2" PVC SCHEDULE 40	5/8" PVC SCHEDULE 40 3/4" PVC SCHEDULE 40 1-1/2" PVC SCHEDULE 40	2" PVC SCHEDULE 40 3" PVC SCHEDULE 40	VAC REMARKS	1/2" COPPER TYPE L OR K 5/8" COPPER TYPE M	COMPRESSED AIR REMARKS
4	19 REAR CABINET	NW	PC		•	•	•			•	•			•	
	22 STERILIZATION CABINET CONTAMINATED 22A STERILIZATION CABINET CLEAN	NW NW	PC PC	•	•	•	•				•			•	
	26 PEDO CART	NW	PC								•			•	
	56 WATER TREATMENT	NW	PC •		•			•							
	60 AIR COMPRESSOR	NW	PC						REQUIRES FRESH AIR INTAKE FROM OUTSIDE UTILITY ROOM, 2" PVC PIPE AND FLEXIBLE HOSE WITH 70 IN. OF CLEAR TUBING FOR CONNECTION TO THE AIR INTAKE OF EACH COMPRESSOR. / SEE DETAIL AS INDICATED ON PLAN.			•		P B	F PIPE VOLUME IS TO GREAT MORE THAN 235 IN ³ OR MORE THAN 100 FT. OF 1/2 DIAMETER PIPE, A PRESSURE REGULATOR SHOULD BE INSTALLED SETWEEN MAIN TANK AND THE DISTRIBUTION PIPING AND SET TO 80 PSI.
	61 VACUUM	NW	PC	•		•	•		REQUIRES FLOOR SINK OR STAND PIPE PER LOCAL CODES PROVIDED BY OTHERS,			•			
1	63 AMALGAM SEPARATOR	NW	PC									•			



PATTERSON
DENTAL

MENDOTA HEIGHTS, MN

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Southern Smiles Pediatric Dentistry

LOCATION:

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PROJECT 763-99086		ISSUE DATE: 03/23/2023	

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OWNER: Southern Smiles Pediatric Dentistry

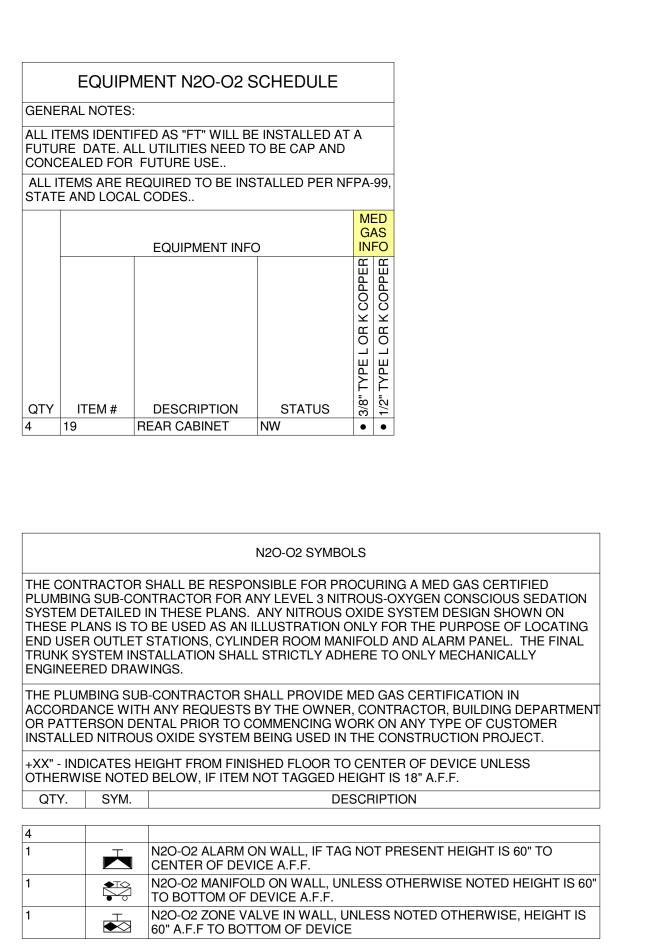
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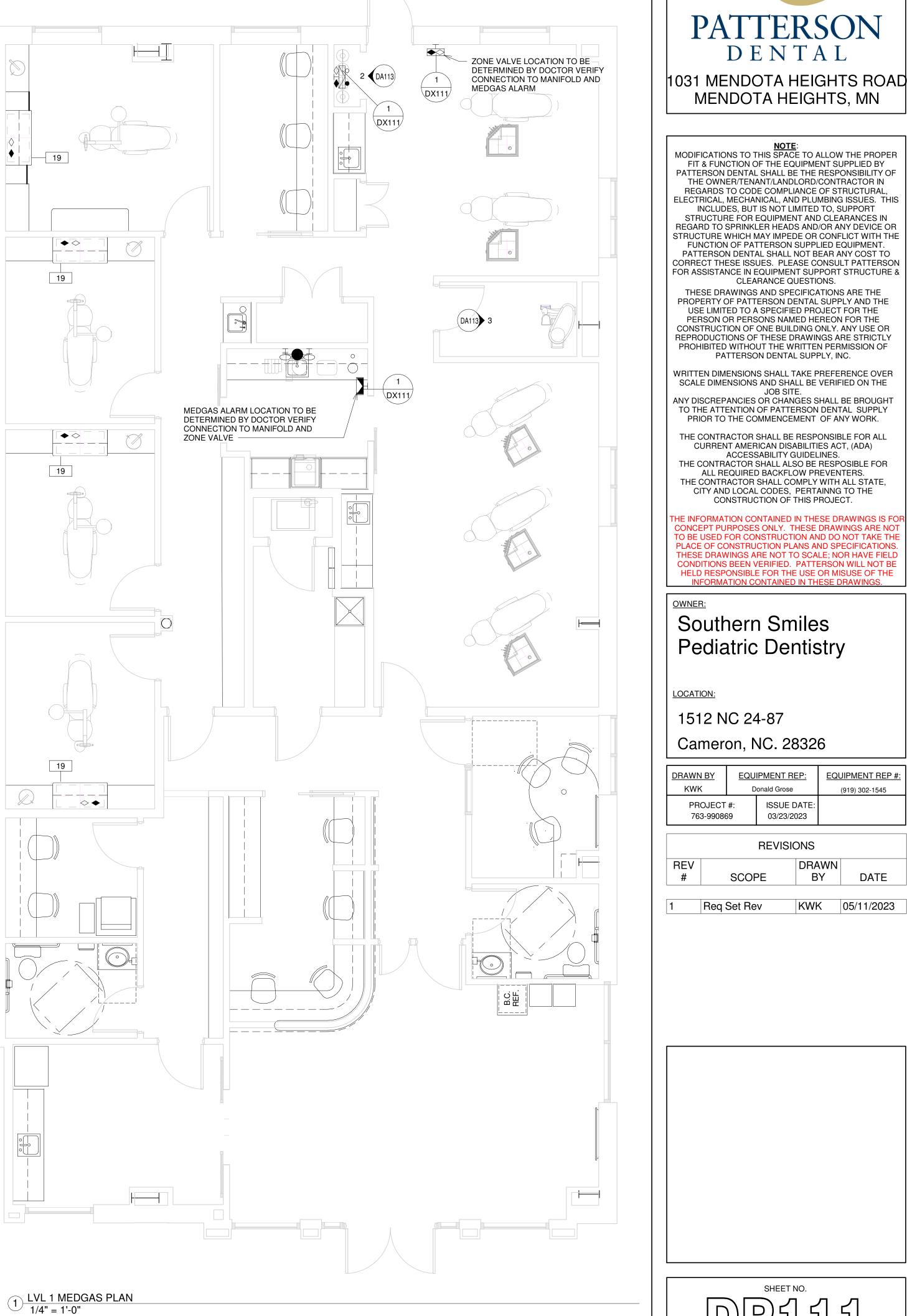
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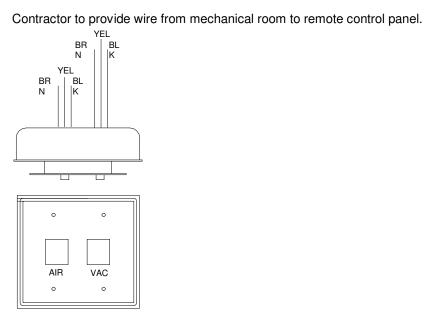
KWK 05/11/2023 Req Set Rev





All wires to be class B low voltage. For "runs" under 150', wire to be 18 gage. For "runs" over 150', wires should be 16 gage.

Local codes may dictate changes to the above



3 REMOTE CONTROL PANEL 3" = 1'-0"

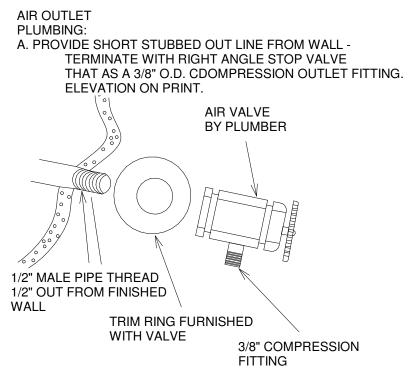
OUTSIDE END FOR OUTSIDE END FOR BULLDOG AND OTHER MODELS MODELS WITH WITH IN-LINE EXHAUST RAMVAC SUPPLIED CHECK VALVES FLAPPER VALVE -HORIZONTAL RUN HORIZONTAL RUN SHROUD AND SCREEN

> PROTECT OUTSIDE END OF EXHAUST FROM ENTRY OF WATER, DEBRIS, AND CREATURES. POINT AWAY FROM PREVAILING WINDS, CLEAR OF SNOW OR OTHER OBSTRUCTIONS. CLEAR ROOF TOPS OR OUTSIDE WALLS BY A MINIMUM OF 6 INCHES.

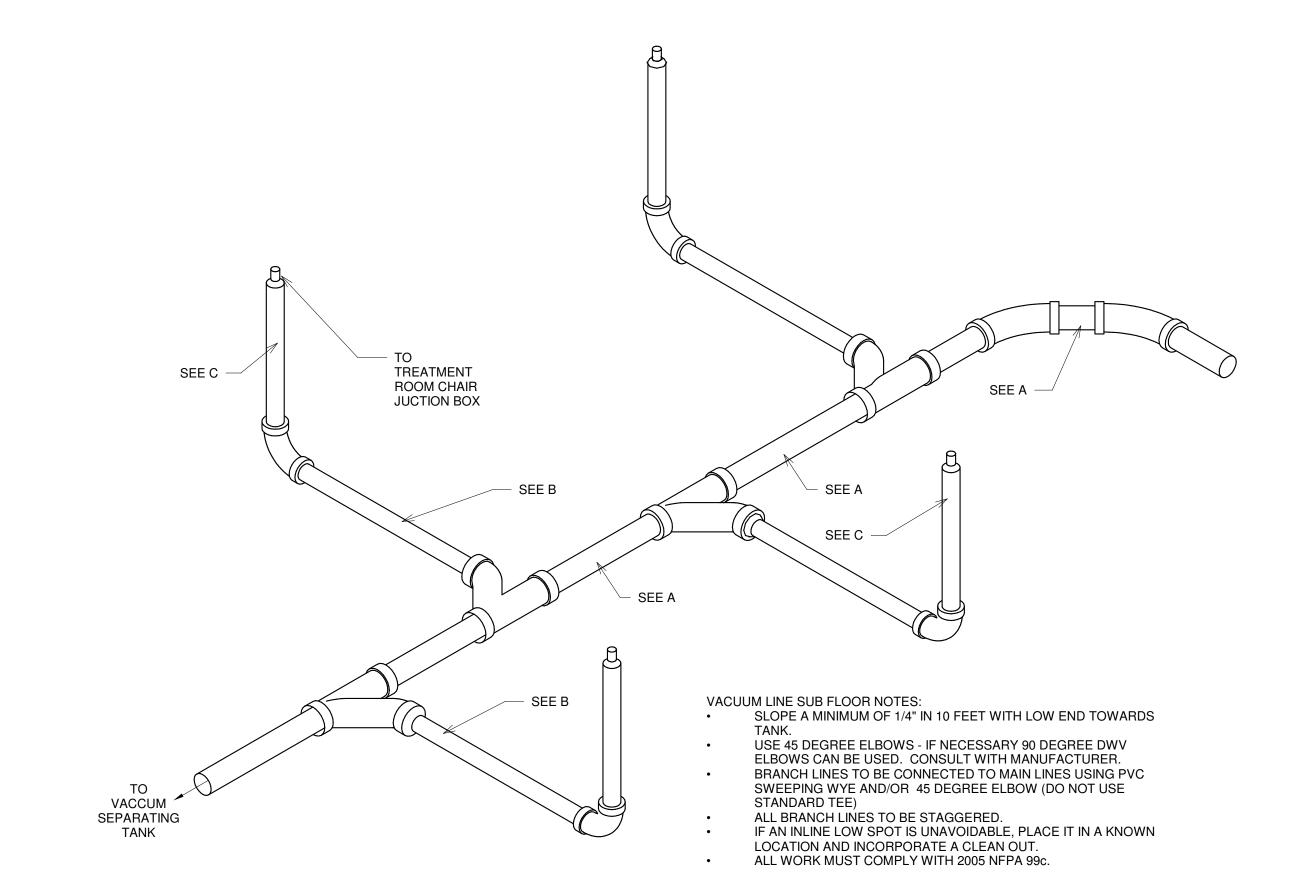
LOCATE IN AN INCONSPICUOUS SITE AWAY FROM DOORS, WINDOWS OR VENTILATION INTAKES.

ALL WORK MUST COMPLY WITH 1996 NFPA 99C.

2 EXHAUST PIPING - OUTSIDE END 1 1/2" = 1'-0"



1 AIR OUTLET 3" = 1'-0"



	DENTALEZ RAMVAC IF A PIPING DIAGRAM IS PROVIDED BY THE MANUFACTURER, IT SUPERCEDES THIS									
	CHART. IF NOT, USE THIS CHART IN CONFERENCE WITH PATTERSON DENTAL REP.									
		BULLDOG	BISON 3	BISON 5	BISON 7	BISON 9	BADGER	AERAS		
Α	MAIN LINE DIAMETER MINIMUM-MAXIMUM	1 - 5 ROOMS 1-1/2" 5 - 15 ROOMS 2"		2" PVC SCH. 40 1 - 1/2" PVC SCH. 40 2" PVC SC						
В	BRANCH LINE DIAMETER MINIMUM-MAXIMUM	1 - 5 ROOMS 1-1/2" 5 - 15 ROOMS 2"		2" PVC	1 - 1/2" PVC SCH. 40	2" PVC SCH. 40				
С	RISER LINE DIAMETER									

4 VACUUM LINE - SUB FLOOR (DENTALEZ RAMVAC)
1 1/2" = 1'-0"

PATTERSON
DENTAL

MENDOTA HEIGHTS, MN

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CURRENT AMERICAN DISABILITIES ACT, (ADA) ACCESSABILITY GUIDELINES. THE CONTRACTOR SHALL ALSO BE RESPOSIBLE FOR ALL REQUIRED BACKFLOW PREVENTERS. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, PERTAINNG TO THE

CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL

THE INFORMATION CONTAINED IN THESE DRAWINGS IS FOR CONCEPT PURPOSES ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION AND DO NOT TAKE THE PLACE OF CONSTRUCTION PLANS AND SPECIFICATIONS THESE DRAWINGS ARE NOT TO SCALE; NOR HAVE FIELD CONDITIONS BEEN VERIFIED. PATTERSON WILL NOT BE HELD RESPONSIBLE FOR THE USE OR MISUSE OF THE INFORMATION CONTAINED IN THESE DRAWINGS.

Southern Smiles Pediatric Dentistry

LOCATION:

1512 NC 24-87 Cameron, NC. 28326

EQUIPMENT REP: EQUIPMENT REP #: <u>DRAWN BY</u> KWK Donald Grose (919) 302-1545 ISSUE DATE: PROJECT #: 763-990869 03/23/2023

REVISIONS									
REV		DRAWN							
#	SCOPE	BY	DATE						

KWK 05/11/2023 Reg Set Rev

1031 MENDOTA HEIGHTS ROAD 50 MENDOTA HEIGHTS, MN

NOTE:
MODIFICATIONS TO THIS SPACE TO ALLOW THE PROPER FIT & FUNCTION OF THE EQUIPMENT SUPPLIED BY PATTERSON DENTAL SHALL BE THE RESPONSIBILITY OF THE OWNER/TENANT/LANDLORD/CONTRACTOR IN REGARDS TO CODE COMPLIANCE OF STRUCTURAL ELECTRICAL, MECHANICAL, AND PLUMBING ISSUES. THIS INCLUDES, BUT IS NOT LIMITED TO, SUPPORT STRUCTURE FOR EQUIPMENT AND CLEARANCES IN REGARD TO SPRINKLER HEADS AND/OR ANY DEVICE OR STRUCTURE WHICH MAY IMPEDE OR CONFLICT WITH THE FUNCTION OF PATTERSON SUPPLIED EQUIPMENT. PATTERSON DENTAL SHALL NOT BEAR ANY COST TO CORRECT THESE ISSUES. PLEASE CONSULT PATTERSON

CLEARANCE QUESTIONS. THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PATTERSON DENTAL SUPPLY AND THE USE LIMITED TO A SPECIFIED PROJECT FOR THE PERSON OR PERSONS NAMED HEREON FOR THE CONSTRUCTION OF ONE BUILDING ONLY. ANY USE OR REPRODUCTIONS OF THESE DRAWINGS ARE STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF PATTERSON DENTAL SUPPLY, INC.

FOR ASSISTANCE IN EQUIPMENT SUPPORT STRUCTURE &

WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALE DIMENSIONS AND SHALL BE VERIFIED ON THE JOB SITE.

ANY DISCREPANCIES OR CHANGES SHALL BE BROUGHT TO THE ATTENTION OF PATTERSON DENTAL SUPPLY PRIOR TO THE COMMENCEMENT OF ANY WORK.

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Southern Smiles **Pediatric Dentistry**

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1512 NC 24-87

Cameron, NC. 28326 DRAWN BY **EQUIPMENT REP: EQUIPMENT REP #:** KWK Donald Grose (919) 302-1545 PROJECT #: ISSUE DATE:

76	3-990869	03/23/2023	
		REVISIONS	
REV #	SCOF		AWN BY DATE

Reg Set Rev KWK 05/11/2023

APPROPRIATE FLUX WITH EITHER A COPPER-PHOSPHOROUS (BCuP SERIES) OR A SILVER

BE INSTALLED IN THE OFFICE OR PRINCIPLE WORKING AREA OF THE INDIVIDUAL RESPONSIBLE FOR THE

SUPPLY LINE SHALL BE PROVIDED WITH A SHUT-OFF VALVE SO LOCTED IN THE TREATMENT FACILITY AS

15. OUTLET STATIONS SHALL BE DESIGNED SO THAT PARTS OR COMPONENTS THAT ARE REQUIRED TO BE

GAS SPECIFIC CANNOT BE INTERCHANGED BETWEEN STATION OUTLETS FOR DIFFERENT GASES. 16. LABELING SHALL APPEAR ON THE PIPING AT INTERVALS OF NOT MORE THAN 20 FT. AND AT LEAST ONCE

(BAQ SERIES) BRAZING FILLER ALLOY. APPLY FLUX SPARINGLY AND IN A MANNER TO

AVOID LEAKING ANY EXCCESS INSIDE OF COMPLETED JOINTS. USE OF PREFLUXED

13. AUDIBLE AND NON-CANCELLABLE VISUAL SIGNALS SHALL INDICATE IF THE PRESSURE IN THE MAIN LINE INCREASED OR DECREASES 20 PERCENT FROM THE NORMAL OPERATING PRESSURE AND SHALL

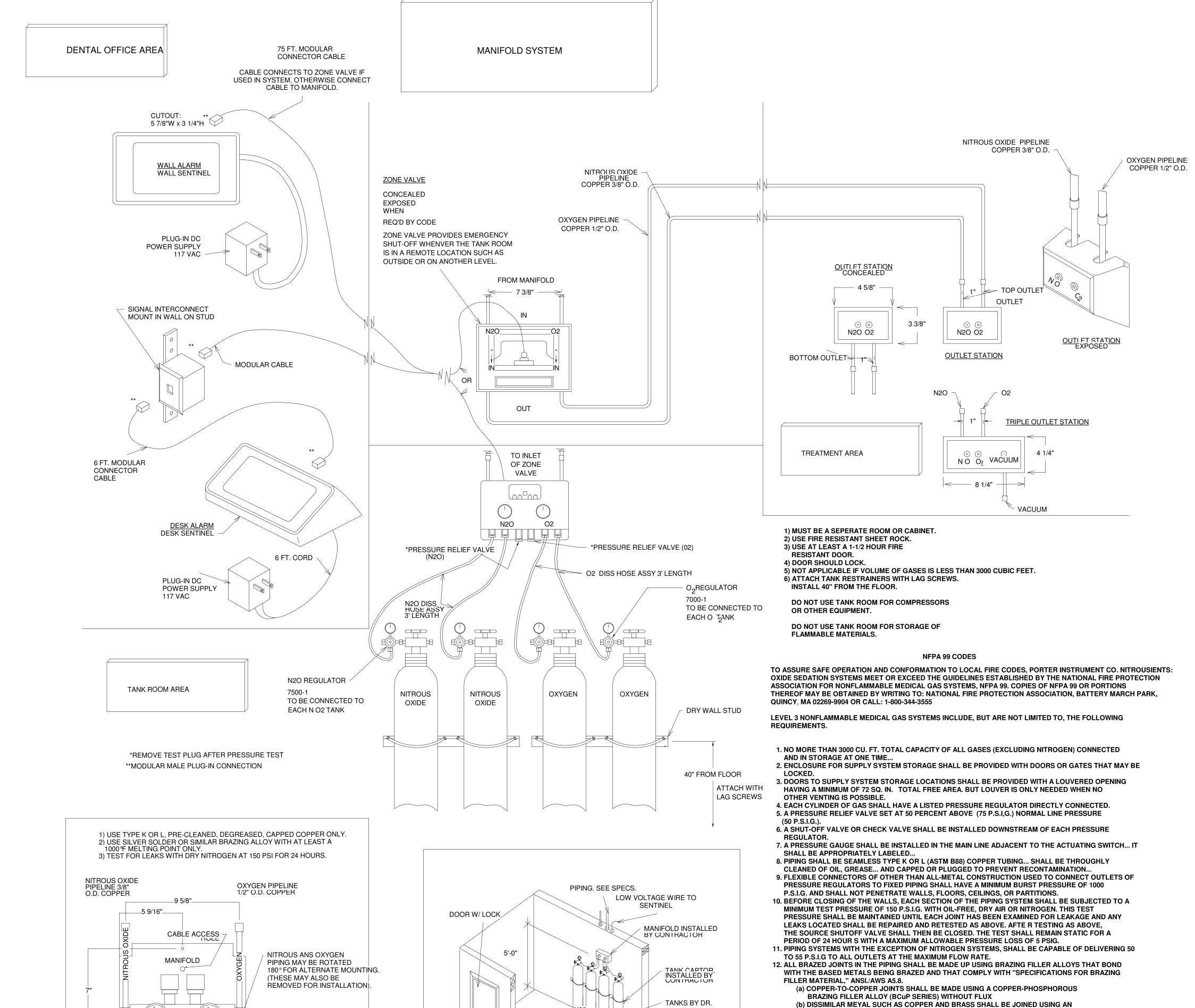
MAINTENANCE OF THE MEDICAL GAS SYSTEM AND, TO ASSURE CONTINUOUS SURVEILLANCE.

14. WHERE THE CENTRAL SUPPLY IS REMOTE FROM THE MEDICAL GAS SYTEMS USE POINT. THE MAIN

TO BE ACCESSIBLE FROM THE USE-POINT LOCATIONS IN AN EMERGENCY.

IN EACH ROOM AND EACH STORY TRAVERSED BY THE PIPING SYSTEMS.

ROD IS ACCEPTABLE.



N20

VENT BY CONTRACTOR

NITROUS OXIDE\OXYGEN CLOSET

17/32"-

MANIFOLD MOUNTING

POINTS (3) USE 1/4" BOLTS

AT LEAST 5

FROM FLOOR

PORTER

3222 MX MANIFOLD