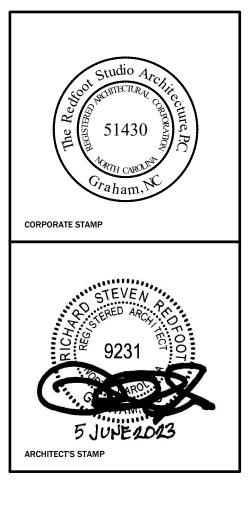
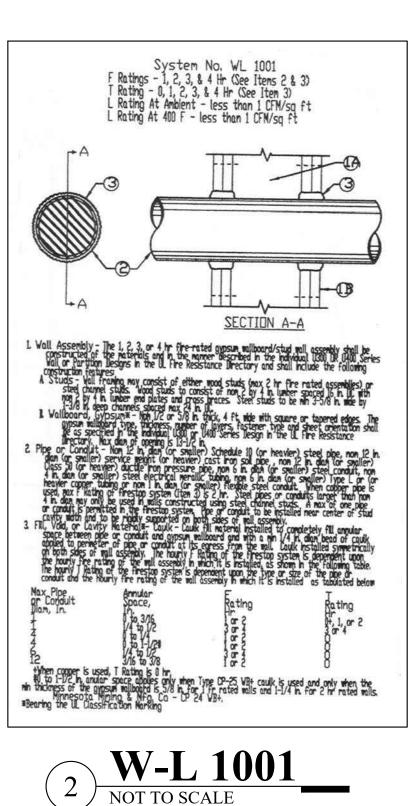
	DRAWING INDEX
SHEET	TITLE
COVER	APPENDIX B AND DRAWING INDEX
A0.0	GENERAL NOTES, SCHEDULES, AND UL DETAILS
A0.1	ACCESSIBILITY DETAILS
A1.0	KEY PLAN, FLOOR PLAN, ENLARGED TOILET PLAN
A1.1	REFLECTED CEILING PLAN AND , LIFE SAFETY PLAN
A2.0	DETAILS AND CABINETS
ID1.0	FINISHES AND FLOORING LAYOUT
ID1.1	PLUMBING AND LIGHTING FIXTURES
ID2.0	CUSTOM FEATURE
ID2.1	CABINETRY
P1	GENERAL PLUMBING NOTES AND SCHEDULES
P2	WASTE AND SUPPLY PLANS
P3	WASTE AND SUPPLY RISERS
P4	VACUUM AND AIR PLANS
P5	PLUMBING DETAILS
M1	GENERAL MECHANICAL NOTES AND SCHEDULES
M2	MECHANICAL PLAN
M3	MECHANICAL DETAILS
E1	GENERAL ELECTRICAL NOTES AND SCHEDULES
E2	POWER PLAN
E3	LIGHTING PLAN
E4	ELECTRICAL RISERS AND SCHEDULES
E5	ELECTRICAL DETAILS
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

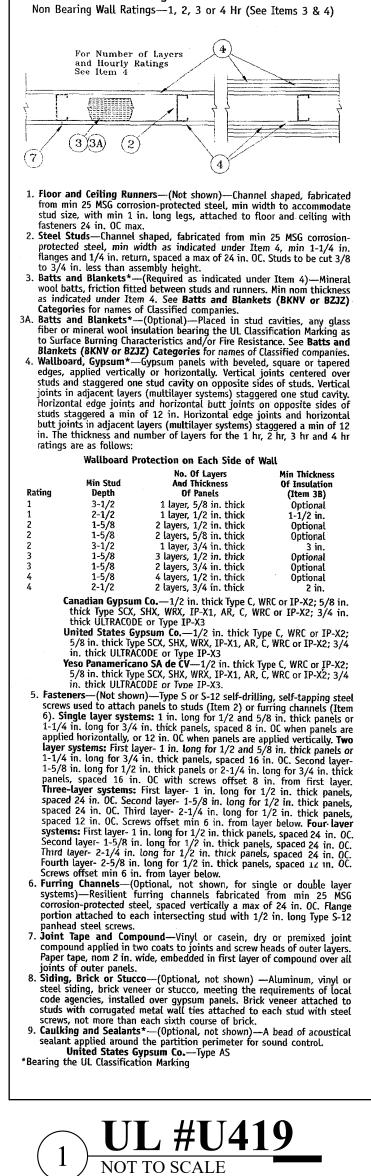
	2018	8 APPENDIX B -	BUILDING	CODE	SU	MMA	RY I	FOR	ALL C	OMN	/IERCIAL PROJECTS
NAME OF PROJECT: SOUTHERN SMILES BUILDING ADDRESS: 2305 NC HIGHWAY 24-87		ZIP CODE: 28326	FIRE PROTECTION REQUIREM	ENTS							PLUMBING REQUIREMENTS
PROPOSED USE: DENTIST OFFICE OWNER OR AUTHORIZED AGENT: LUKE COYLE	PHONE: (919) 791-4631	EMAIL: LUKE@HMDDEVELOPMENT.COM	BUILDING ELEMENT	FIRE SEPARATION	N REQ'D		DETAIL #	DESIGN # FOR RATED	SHEET # FOR RATED	SHEET # FOR RATED	USE WATER CLOSET URINALS LAVATORIES SHOWERS & TUBS DRINKING FOUNTAINS
OWNED BY: CITY/C CODE ENFORCEMENT JURISDICTION: CITY	COUNTY X PRIV	ATE STATE	STRUCTURAL FRAME. INCLUDING	DISTANCE (FEET)		(W/ <u>NA*</u> REDUCTION)	SHEET #	ASSEMBLY	PENETRATION	JOINTS	MALE FEMALE MALE FEMALE REGULAR ACCE SPACE EXISTING 0
CONTACT:			COLUMNS, GIRDERS, TRUSSES BEARING WALLS	NA	0	0	NA	NA	NA	NA	NEW 1 1 0 1 1 0 1 1 REQUIRED 1 1 0 1 1 0 1 1 1
ARCHITECTURAL REDFOOT STUDIO	RICHARD REDFOOT 9231 (TELEPHONE# EMAIL 919) 931-7134 RICHARD@REDFOOTSTUDIO.COM	EXTERIOR NORTH	NA	NA	NA	NA	NA	NA	NA	SPECIAL APPROVALS: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ETC., DESCRIBE BELOW)
CIVIL NA ELECTRICAL KILIAN ENGINEERING FIRE ALARM NA	NA NA	NA NA (252) 438-8778 JHAMILTON@KILIANENGINEERING.COM NA NA	EAST WEST	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA
PLUMBING KILIAN ENGINEERING MECHANICAL KILIAN ENGINEERING SPRINKLER-STANDPIPE NA		(252) 438-8778 (252) 438-8778 NA NA JHAMILTON@KILIANENGINEERING.COM NA NA	SOUTH INTERIOR	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
STRUCTURAL NA RETAINING WALLS > 5' HIGH NA	NA NA NA NA NA	NA NA NA NA NA NA	NON-BEARING WALLS AND PARTITIONS								ENERGY REQUIREMENTS
OTHER NA 2018 NC BUILDING CODE : NEW BUIL			EXTERIOR WALLS NORTH	30' +	0	NA	NA	NA	NA	NA	THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST BUDGET FOR THE STANDARD REFERENCE DESIGN VERSUS
SHELL/CC	INTERIOR COMPLETION IRE - CONTACT THE LOCAL INSPECTION J IRES AND REQUIREMENTS	IURISDICTION FOR POSSIBLE ADDITIONAL	EAST WEST SOUTH	30' + 30' + 30' +	0	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	ANNUAL ENERGY COST FOR THE PROPOSED DESIGN. EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO X YES (THE REMAINDER OF THIS SECTION
PHASED C		THE LOCAL INSPECTION JURISDICTION FOR REMENTS	INTERIOR WALLS AND PARTITIONS	NA	0	0	NA	NA	NA	NA	EXEMPT BUILDING: X NO YES (PROVIDE CODE OR STATUTORY REFERENCE): NA
	PRESCRIPTIVE REPAIR	<u> </u>	SUPPORTING BEAMS AND JOISTS FLOOR CEILING ASSEMBLY	NA NA	0 NA	0 NA	NA NA	NA NA	NA NA	NA NA	CLIMATE ZONE: 3A X 4A 5A
		CHANGE OF USE	COLUMNS SUPPORTING FLOORS ROOF CONSTRUCTION, INCLUDING	NA	0	NA	NA NA	NA NA	NA	NA NA	METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
		NA B	SUPPORTING BEAMS AND JOISTS ROOF CEILING ASSEMBLY	NA	0	0	NA	NA	NA	NA	ASHRAE 90.1
	JRRENT: I I II [] IPOSED: I I X II []		COLUMNS SUPPORTING ROOF SHAFT ENCLOSURES - EXIT	NA NA	0 NA	0 NA	NA NA	NA NA	NA NA	NA NA	THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)
BUILDING DATA:			SHAFT ENCLOSURES - STAIR CORRIDOR SEPARATION	NA NA	0	0	NA NA	NA NA	NA NA	NA NA	ROOF/CEILING ASSEMBLY (each assembly): DESCIPTION OF ASSEMBLY: NA UVALUE OF TOTAL ASSEMBLY:
L I-B X	II-A III-A IV	□ V-A □ V-B	OCCUPANCY / FIRE BARRIER SEPARATION PARTY/FIRE WALL SEPARATION SMOKE BARRIER SEPARATION	N NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: SKYLIGHTS IN EACH ASSEMBLY:
STANDPIPES: X NO YES			SMOKE PARTITION TENANT / DWELLING UNIT /	NA	NA	NA	NA	NA	NA	NA	U-VALUE OF SKYLIGHTS IN EACH ASSEMBLY:
FIRE DISTRICT: X NO YES (F SPECIAL INSPECTIONS REQUIRED: X NO	Primary) FLOOD HAZARD AREA: YES (contact the local inspe procedures and requir	ection jurisdiction for additional	SLEEPING UNIT SEPARATION INCIDENTAL USE SEPARATION	NA NA	1 NA	1 NA	1/A0.0 NA	UL U419 NA	WL 1001 NA	NA NA	EXTERIOR WALLS (each assembly):
GROSS BUILDING AREA:	procedures and requir	รแซแฉ.)	MEDICAL GAS CLOSET * INDICATES SECTION NUMBER PE	NA	1	1	1/A0.0	UL U419	WL 1001	NA	DESCIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION:
FLOOR EXISTING (SQ FT 3RD FLOOR NA	NA	SUB-TOTAL NA	PERCENTAGE OF WALL OPEN								OPENINGS (WINDOWS OR DOORS WITH GLAZING) U-VALUE OF ASSEMBLY:
2ND FLOORNAMEZZANINENA1ST FLOOR17,178	NA NA 3,130 (AREA OF WOR	NA NA K) 17,178 (3,130)	FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINE NA - EXISTING BUILDING	DEG PROT	GREE OF OF ECTION (T/	ABLE 705.8)	ALLOWAB (%		ACTUAL SHOW		SOLAR HEAT GAIN COEFFICIENT: PROJECTION FACTOR: DOOR R-VALUES:
BASEMENT NA TOTAL 17,178	NA 3,130 (AREA OF WOR	NA									DOOR R-VALUES: WALLS BELOW GRADE (each assembly):
ALLOWABLE AREA OCCUPANCY:			LIFE SAFETY SYSTEM REQUIR EMERGENCY LIGHTING:		X YES						DESCIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY:
ASSEMBLY A-1 A-2 BUSINESS X EDUCATIONAL	A-3 A-4 A-5	i	EXIT SIGNS: FIRE ALARM:	NO NO	X YES VES						R-VALUE OF INSULATION: FLOORS OVER UNCONDITIONED SPACE (each assembly):
FACTORY/INDUSTRIAL F-1 MODEI HAZARDOUS H-1 DETONATE	H-2 DEFLAGRATE H-3 COM	IBUST 🔲 H-4 HEALTH 🔲 H-5 HPM	SMOKE DETECTION SYSTEMS: CARBON MONOXIDE DETECTION:	X NO X NO	YES	PARTIA	AL		_		DESCIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY: NA
INSTITUTIONAL I-1 CONDI I-2 CONDI	FION 1 2 FION 1 2		LIFE SAFETY PLAN REQUIREM LIFE SAFETY PLAN SHEET #:								R-VALUE OF INSULATION:
□ I-4	FION 1 2 3		X FIRE AND SMOKE RATE	ED WALL LOCATIO			SITE PLAN)				DESCIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY: NA
MERCANTILE RESIDENTIAL R-1 R-2			EXTERIOR WALL OPEN X OCCUPANCY USE FOR	INGS WITH RESP EACH AREA AS I	PECT TO DI	ISTANCE TO ASS	UMED PROP	ERTY LINES (7			R-VALUE OF INSULATION: HORIZONTAL/VERTICAL REQUIREMENT:
_			X OCCUPANT LOADS FOR X EXIT ACCESS TRAVEL I X COMMON PATH OF TRA	DISTANCE (1017)		1006 0 1 8 1006 0	0 (1))				SLAB HEATED:
UTILITY AND MISCELLANEOUS	NA		DEAD END LENGTHS (1	020.4)		1000.2.1 & 1000.0	.2 (1))				MECHANICAL SUMMARY SEE MECHANICAL DRAWING MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
INCIDENTAL USES (TABLE 509): NA SPECIAL USES (CHAPTER 4 - LIST CODE SECTION: SPECIAL PROVISIONS: (CHAPTER 5 - LIST CODE SI	/		X MAXIMUM CALCULATED	AD FOR EACH E	XIT DOOR					. ,	THERMAL ZONE WINTER DRY BULB
MIXED OCCUPANCY: X NO YES	SEPARATION: NA HR. EXC		A SEPARATE SCHEMAT FOR PURPOSES OF OC LOCATION OF DOORS	CUPANCY SEPA	RATION		LOOR/CEILIN	ng and/or ro	OUF STRUCTURE	IS PROVIDED	SUMMER DRY BULB
	E REQUIRED TYPE OF CONSTRUCTION FO PLYING THE HEIGHT AND AREA LIMITATIO CUPANCIES TO THE ENTIRE BUILDING. TH	INS FOR EACH OF THE APPLICABLE	LOCATION OF DOORS	WITH DELAYED E EQUIPPED WITH	GRESS LO HOLD-OPE	OCKS AND THE AN EN DEVICES	MOUNT OF D	ELAY (1010.1.9	9.7)		WINTER DRY BULB SUMMER DRY BULB
CO	NSTRUCTION, SO DETERMINED, SHALL AF		LOCATION OF EMERGE	E OF EACH FIRE	AREA (202)	!)			N 1-2 (107 5)		RELATIVE HUMIDITY BUILDING HEATING LOAD RUIL DING COOLINIC LOAD
SHALL B	E SUCH THAT THE SUM OF THE RATIOS C DED BY THE ALLOWABLE FLOOR AREA F	OF THE ACTUAL FLOOR AREA OF EACH	THE SQUARE FOOTAGE NOTE ANY CODE EXCE						()	OVE	BUILDING COOLING LOAD MECHANICAL SPACING CONDITIONING SYSTEM
ACTUAL AREA OF OCCUPANCY ALLOWABLE AREA OF OCCUPANCY	- +	<i>CUPANCY B</i> ≤ 1 <i>CCUPANCY B</i> ≤ 1	ACCESSIBLE DWELLING UNITS		<u> </u>	N/ TYPE 'A'	A - NC		LING U	TOTAL	UNITARY DESCRIPTION OF UNIT HEATING EFFICIENCY
	+	+ ≤ 1.00	UNITS UNITS UNITS UNIT REQUIRED REQUI	S UN	IITS	UNITS PROVIDED	REQUIR	S I U	NITS ACCE	ROVIDED	COOLING EFFICIENCY SIZE CATEGORY OF UNIT BOILER
STORY NO. DESCRIPTION AND USE B	(A) (B) LDG. AREA TABLE 506.2 ⁴	(C) (E) AREA FOR ALLOWABLE					l				SIZE CATEGORY. IF OVERSIZED, STATE REASONCHILLER
Р	EDG. AREA TABLE 506.2 ER STORY AREA (ACTUAL)	FRONTAGE AREA PER INCREASE ^{1,5} STORY OR	ACCESSIBLE PARKING		- EXIS			ING AN	ND PAR	KING TOTAL #	SIZE CATEGORY. IF OVERSIZED, STATE REASON LIST EQUIPMENT EFFICIENCIES
1 B	17,178 69,000	UNLIMITED ^{2,3} NOT USED 69,000	PARKING AREA REQUIRED	PROVIDED		LAR WITH 5'	VA	AN SPACES PROVI AN SPACES WI AISLE 8' A	TH	ACCESSIBLE PROVIDED	
			USE 1 USE 2								ELECTRICAL SUMMARY SEE ELECTRICAL DRAWING
¹ FRONTAGE AREA INCREASES FROM SECTION 50			USE 3 TOTAL								METHOD OF COMPLIANCE: ENERGY CODE PRESCRIPTIVE PERFORMANCE ASHRAE 90.1 PRESCRIPTIVE PERFORMANCE
A. PERIMETER WHICH FRONTS A PUBLIC WAY B. TOTAL BUILDING PERIMETER = C. RATIO (F/P) = (F/P) D. W = MINIMUM WIDTH OF PUBLIC WAY =	= (W)		STRUCTURAL DESIGN			1	VA - F	XISTIN	NG BUIL	DING	LIGHTING SCHEDULE (each fixture type) LAMP TYPE REQUIRED IN FIXTURE
E. PERCENT OF FRONTAGE INCREASE I _f = 1 ² UNLIMITED AREA APPLICABLE UNDER CONDITIC	00 [F/P -0.25] x W/30 = DNS OF SECTION 507		DESIGN LOADS IMPORTANCE FACTORS:	SNOW (Is)			., 、 ∟				NUMBER OF LAMPS IN FIXTURE BALLAST TYPE USED IN FIXTURE NUMBER OF BALLASTS IN FIXTURE
 ³ MAXIMUM BUILDING AREA = TOTAL NUMBER ⁴ THE MAXIMUM AREA OF OPEN PARKING GARAG CONTROL TOWERS MUST COMPLY WITH 412.3.1 	ES MUST COMPLY WITH 406.5.4. THE I		LIVE LOADS:	SEISMIC (Ie)			nef				TOTAL WATTAGE PER FIXTURE TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (whole building or space by space)
⁵ FRONTAGE INCREASE BASED ON THE UNSPRIN				MEZZANINE_			psf				ADDITIONAL EFFICIENCY PACKAGE OPTIONS (WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)
		N ON PLANS CODE REFERENCE	GROUND SNOW LOAD:				psf				C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT C406.3 REDUCED LIGHTING POWER DENSITY
	- EXISTING TO REMAIN - EXISTING TO REMAIN		WIND LOAD:	BASIC WIND EXPOSURE C		Y	mph (#	ASCE-7)			C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
L			SEISMIC DESIGN CATEGORY PROVIDE THE FOLLOWING SEISMIC		_	C C	D				C406.6 DEDICATED OUTDOOR AIR SYSTEM C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING
			RISK CATEGORY (Table 160	04.5)	L I		-			— -	
			SPECTRAL RESPONSE ACC SITE CLASSIFICATION (ASC	CE 7)] A	□ B [C	D	Ē	F	
			DATA SOUI BASIC STRUCTURAL SYSTE	EM (CHECK ONE))				HISTORICAL DA	NIA	
			BEARING WALL	ME 🔲 [DUAL W/ IN			IL STEEL			
					ED 🗌	EQUIVALENT			DYNAMIC		
			ARCHITECTURAL, MECHAN				₽ □	NU			
			SOIL BEARING CAPACITY: FIELD TEST (PROVIDE COP		RT)			psf			
			PRESUMPTIVE BEARING CA PILE SIZE, TYPE, AND CAPA					psf psf			
											•



THE REDFOOT STUDIO ARCHITECTURE PC 2515 SAXAPAHAW-BETHLEHEM CHURCH ROAD 2515 SAXAPAHAW-BETHLEHEM CHURCH ROAD GRAHAM NORTH CAROLINA 27253-9218 (919) 931-7134 MAIL@REDFOOTSTUDIO.COM WWW.REDFOOTSTUDIO.COM







Design No. U419

			DOC	OR AND	FRAME	SCHEDULE		
		DC	OOR					
		SIZE			FRAME	HARD	WARE	
DOOR NO.	WD	HGT	THK	MATL	MATL	SET	KEYSIDE RM NO	REMARKS
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	НМ	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	НМ	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	НМ	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
	AL DOOR SCH	IEDI II E NO'	FFS					
A. DOORS WITH NO NUMBER ARE EXISTING TO REMAIN. B. NEW DOORS TO BE PRE-FINISHED SOLID CORE WOOD COMMERCIAL DOORS. C. PROVIDE NEW COMMERICAL GRADE ACCESSIBLE DOOR HARDWARE. HARDWARE LEGEND P.L. PASSAGE LATCHSET CR.L. CLASSROOM LOCKSET O.C. OVERHEAD CLOSER C.H. COAT HOOK PR.L. PRIVACY LOCKSET D.B. DEADBOLT C.L. CYLINDER LOCKSET ALT ALUMINUM THRESHOLD W.S. WEATHER STRIPPING								
M.L. MORTIS	SE LOCKSET		W.S.	WOOD THRESI	HOLD	D.S. DOOR		
REMAR	KS							
 HALF GLA VIEW PAN CHILDREN BARN DOO BARN DOO BARN DOO POCKET D OPENING 1-HOUR FI HALF GLA WHEN DO PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE 	OR ASSEMBLY OR ASSEMBLY. SHALL BE A MI OOOR ASSEMBL SHALL BE A MI RE-RATED DOO ASS DOOR. GLA OR IN IN OPEN SOUND KIT ON FULL HEIGHT 3 WALL HUNG A PARTIAL VINYI	ZING TO BE 1 GLAZING TO B AND ASSOCIA IN FULLY OF NIMUM OF 32 Y. IN FULLY NIMUM OF 32 OR AND FRAM ZING TO BE 1 POSITION. DOOR AND F '-0" SIDELIGH COUSTIC BLA L FROSTING C	EMPERED. E TEMPERED TED HARDW EN POSITION CLEAR. OPEN POSITIC CLEAR. E. /2" TEMPEREI RAME ASSEM T. GLAZING T NKET OVER I OVER GLAZING	ARE. , OPERATING HA DN, OPERATING I D. PROVIDE INTI BLY. TO BE TEMPEREI DOOR, GRAINGEF	HARDWARE SHA ERLOCK SWITCH). ? 4' X 8' ACOUSTI ; DESIGN/PATTEF	LL BE EXPOSED AND USAB	FOR BOTH SIDES AND WIDT LE FOR BOTH SIDES AND WII GING EQUIPMENT CANNOT C T498 OR APPROVED EQUAL. RIOR DESIGNER.	OTH OF DOOR

1. GENERAL NOTES APPLY TO ALL SHEETS.
2. THE DRAWINGS AND SPECIFICATIONS SHALL B
ALL DISCREPANCIES, INTERFERENCES, AND OM
3. ANY DEVIATIONS FROM THE CONTRACT DOCU
4. ALL WORK SHALL BE DONE IN ACCORDANCE W
5. CONTRACTOR TO VISIT SITE PRIOR TO SUBMITT
SITE VISIT. ANY OMMISSIONS, DISCREPANCIES
6. CONTRACTOR TO ITEMIZE ALL COSTS AND SCO
AND ARCHITECT FOR APPROVAL PRIOR TO ANY
7. NOTED DIMENSIONS TAKE PRECEDENCE OVER
8. DIMENSIONS ARE TO FACE OF FRAMING.
9. ALL COLORS AND MATERIALS SHALL BE APPRO
10. PROVIDE BLOCKING AS REQUIRED FOR FOR IN
BLOCKING FOR CABINETRY AND WALL MOUNT
11. COORDINATE INSTALLATION OF ALL EQUIPMEN
REQUIREMENTS AND SPECIFICATIONS.
12. TOP OF PARTITIONS STOP 1" TO 6" ABOVE CEILI
INTERIOR PARTITIONS.
12 ALL CURCED (WALLED O ADD TO DE ED HOUED TO

GENERAL NOTES

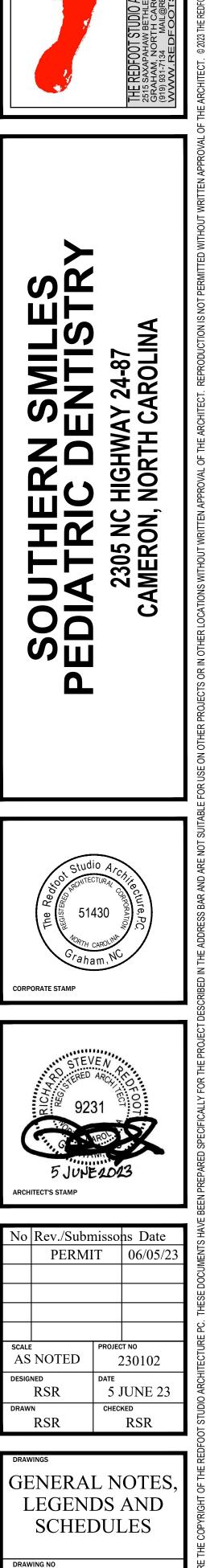
BE THOROUGHLY REVIEWED PRIOR TO ORDERING, PURCHASING AND INSTALLING MATERIALS AND SYSTEMS. MISSIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. UMENTS DURING CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES. ITAL OF BID. CONTRACTOR TO ESTABLISH SCOPE OF WORK FROM CONSTRUCTION DOCUMENTS AND ACTUAL S OR CLARIFICATIONS TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. OPE OF WORK RELATED TO ANY CHANGE ORDER. THIS INFORMATION MUST BE PRESENTED TO THE OWNER Y WORK BEING EXECUTED.

R OVER SCALED DIMENSIONS, DO NOT SCALE DIMENSIONS.

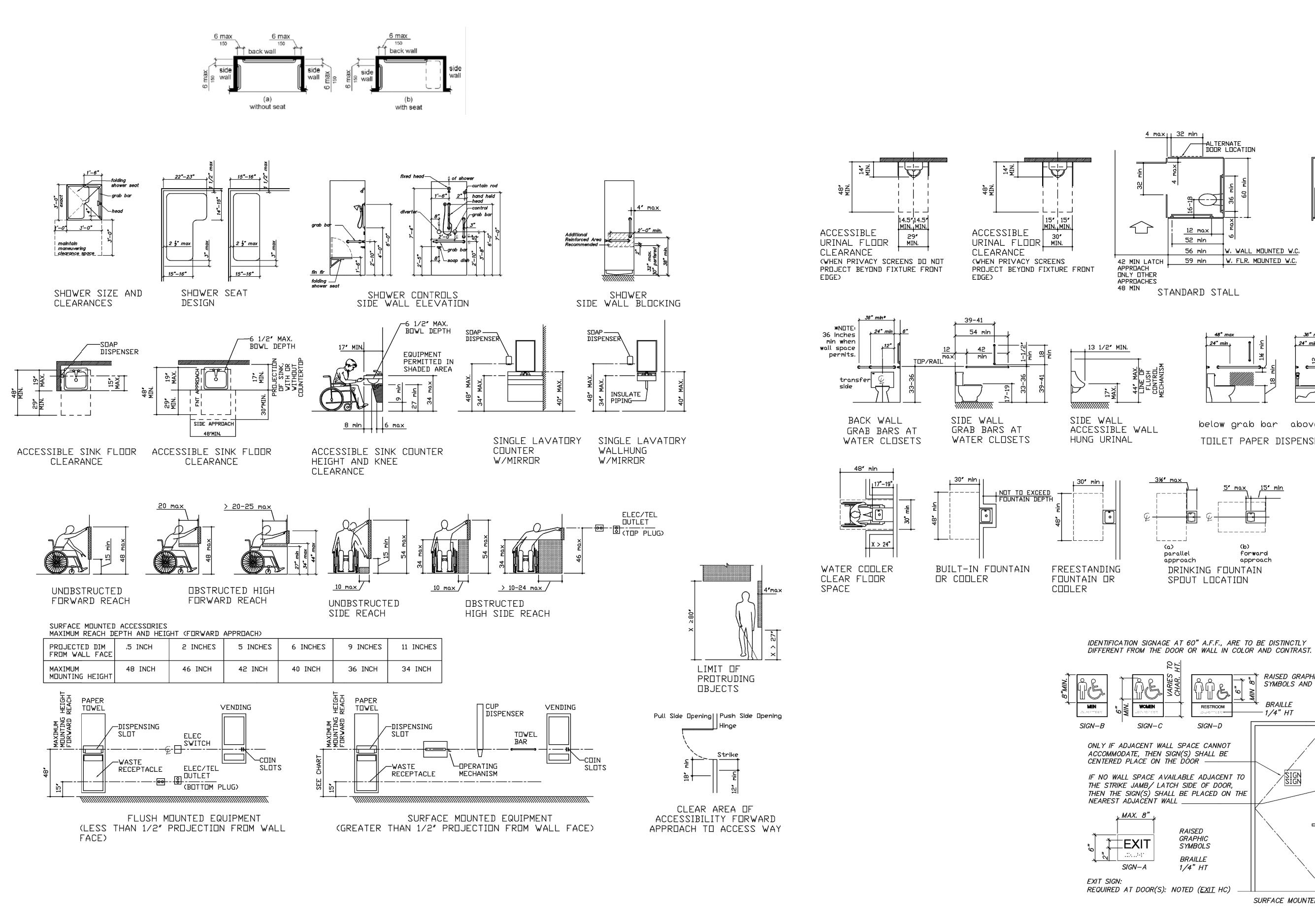
OVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO ORDERING MATERIALS. ISTALLATION AND SUPPORT OF GRAB BARS, TOILET ACCESSORIES, CABINETS, TELEVISIONS, EQUIPMENT, ETC.. TED EQUIPMENT TO BE CONTINUOUS FROM FLOOR TO 8'-0" AFF. ENT AND APPLIANCES, INCLUDING BOTH CONTRACTOR AND OWNER SUPPLIED ITEMS, WITH MANUFACTURER'S

ING. PROVIDE LATERAL BRACING, SECURED TO TOP OF WALL AND ROOF STRUCTURE ABOVE, AT ALL 13. ALL GYPSUM WALLBOARD TO BE FINISHED TO LEVEL 4 PER GYPSUM ASSOCIATION GUIDELINES AS DETAILED IN GA 214-10.

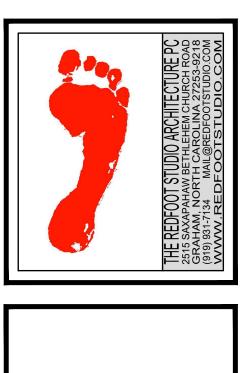
14. EXISTING BUILDING ASSEMBLIES, COMPONENTS, AND SYSTEMS TO REMAIN UNLESS OTHERWISE REQUIRED BY NEW WORK OR NOTED IN THE DOCUMENTS.

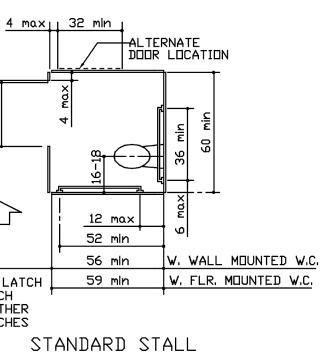


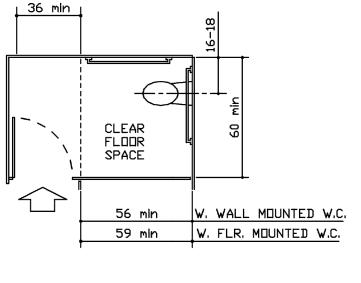
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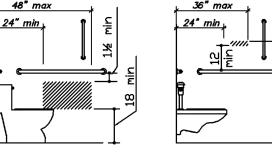






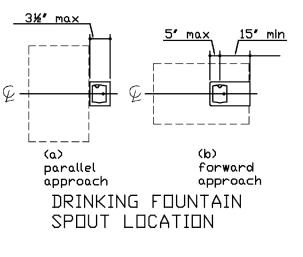
STANDARD STALL (END OF ROW)

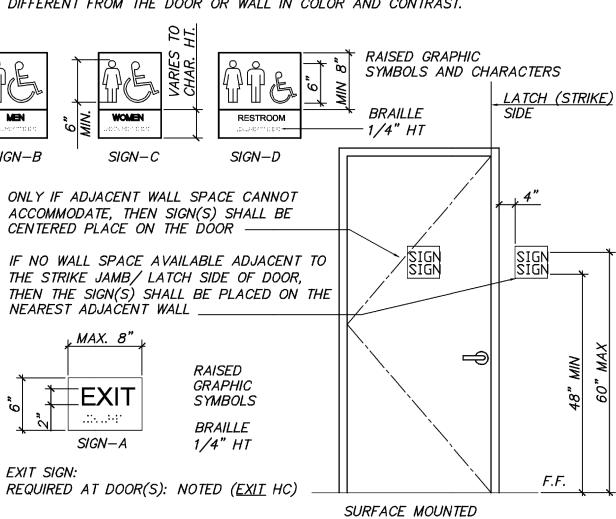


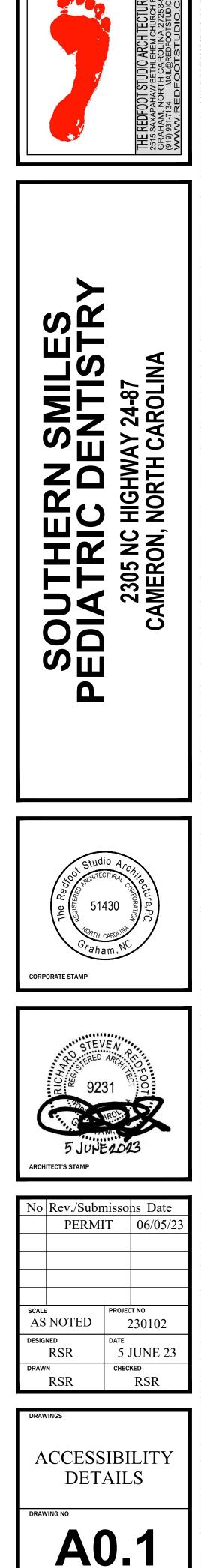


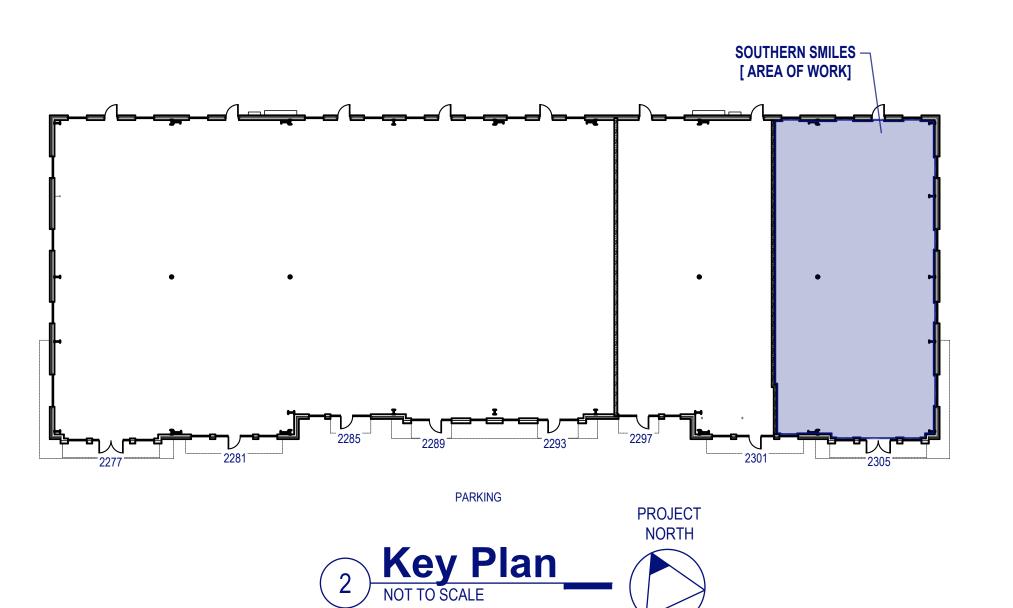


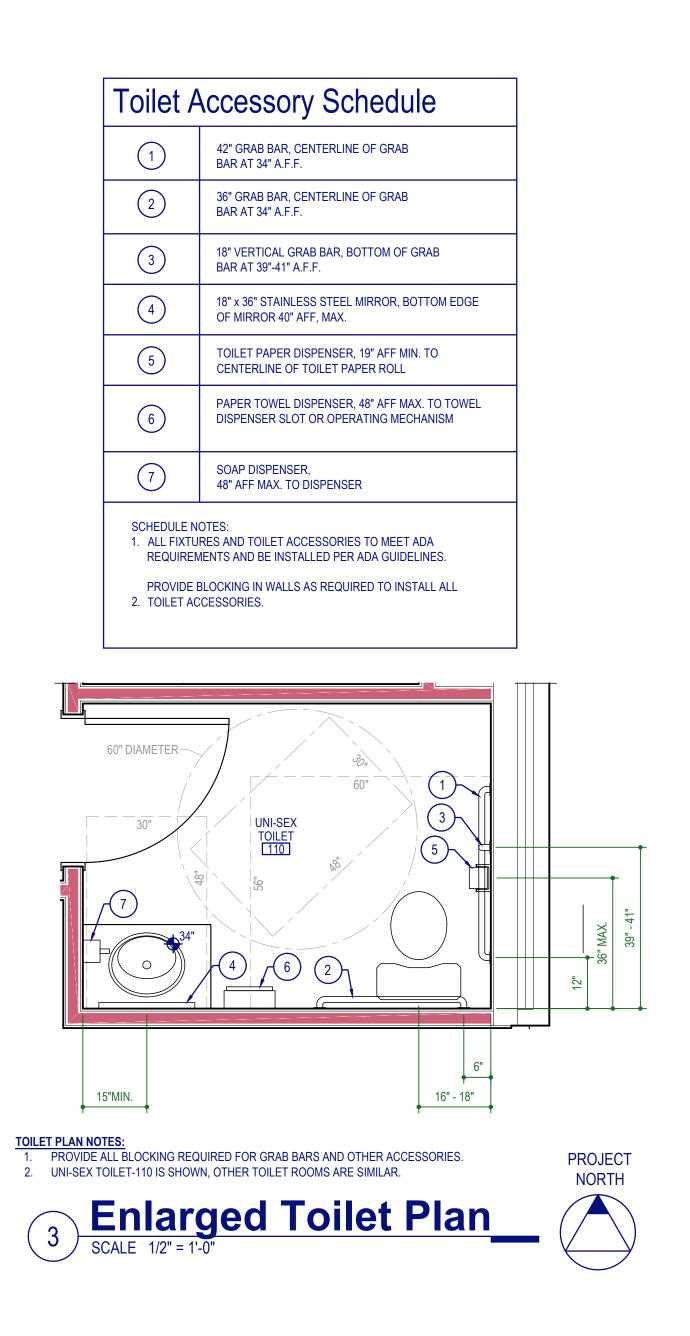
below grab bar above grab bar TOILET PAPER DISPENSER LOCATION

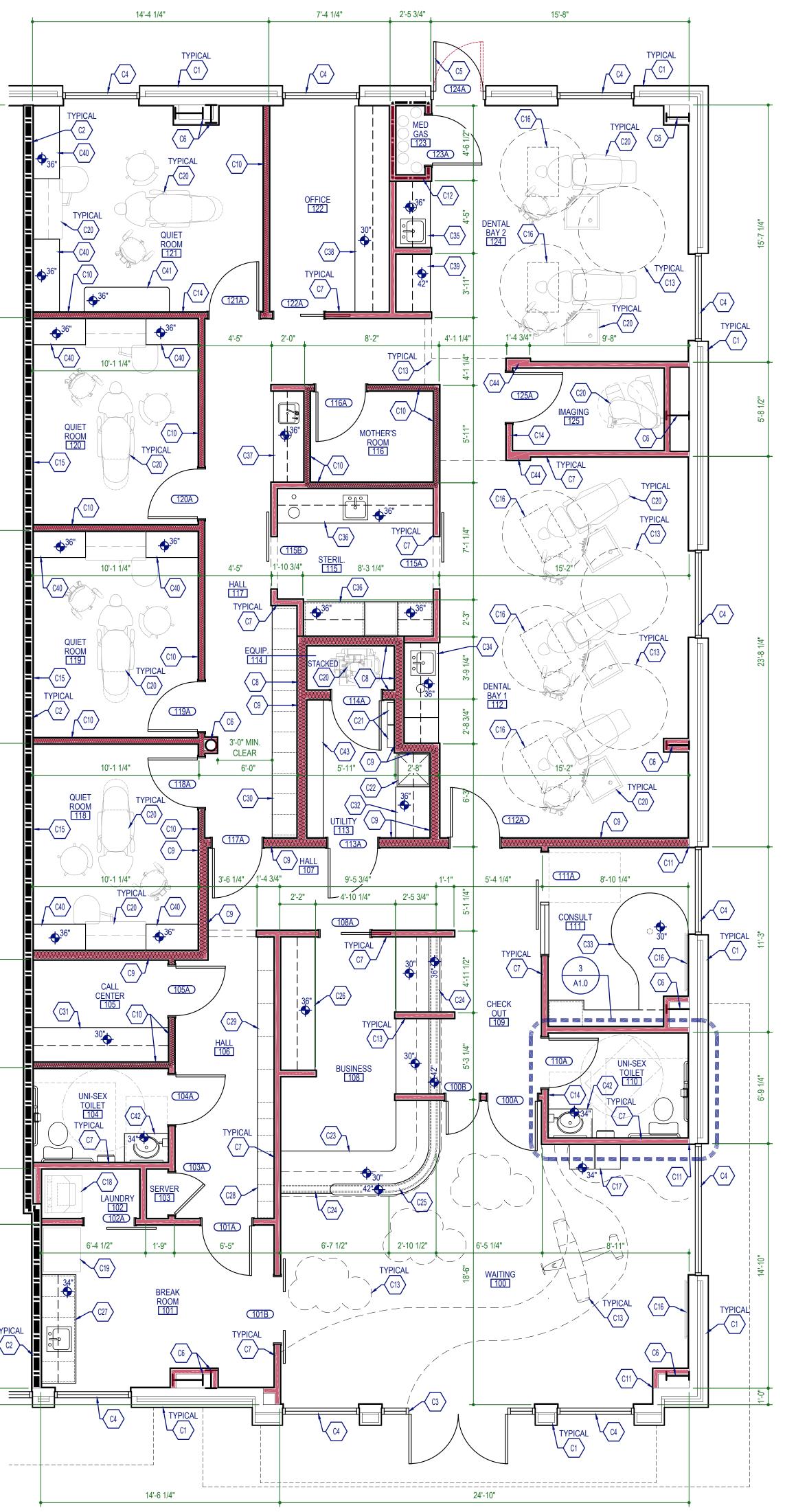












6. PR
 7. DE
 SP
 8. PR
 9. PR
 10. PR
 11. VE

	ISTRUCTION NOTES: EXISTING MASONRY VENEER FRAMED EXTERIOR WALL TO REMAIN, TYPICAL
	EXISTING MASONRY VENEER FRAMED EXTERIOR WALL TO REMAIN, TYPICAL EXISTING 1-HOUR FIRE-RATED DEMISING WALL ASSEMBLY TO ROOF DECK, PROVIDE LAYER OF
$\langle c_2 \rangle$	GYPSUM WALLBOARD TO TENANT SIDE OF WALL ONLY, SECURE AND FINISH PER UL U419, SEE 1/A0.0
	EXISTING STOREFRONT ENTRY ASSEMBLY TO REMAIN, CASE OPENING W/ GYPSUM WALLBOARD
C4 C5	EXISTING STOREFRONT WINDOW ASSEMBLY TO REMAIN, CASE OPENING W/ GYPSUM WALLBOARD
	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
(C8)	PROVIDE NEW METAL STUD FRAMED TYPE 1 SOUND WALL, SEE 2/A2.0, TYPICAL AT EQUIPMENT 114
(19)	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
C10	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
C12	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. 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.
C13	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
(C16)	PROPOSED LOCATION FOR TELEVISION, PROVIDE BLOCKING AS REQUIRED, VERIFY LOCATION W/ OWNER IN FIELD
C17	ACCESSIBLE DRINKING FOUNTAINS, SEE PLUMBING AND ELECTRICAL DRAWINGS
C18	STACKED WASHER/DRYER, SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR,
C19	SEE PLUMBING AND ELECTRICAL DRAWINGS REFRIGERATOR, SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR
(C20)	DENTAL EQUIPMENT, SEE DENTAL DRAWINGS,
$\langle c_{21} \rangle$	COORDINATE W/ MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS, TYPICAL PROPOSED LOCATION FOR SURFACE MOUNTED ELECTRIC PANELS, SEE ELECTRICAL DRAWINGS
	PROPOSED LOCATION FOR MOP SINK, SEE PLUMBING DRAWINGS
(23)	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" 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
(C25)	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
C27	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
	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
C31	CALL CENTER DESK, WORK SURFACE AT 30" AFF, OPEN BELOW WORK SURFACE PROVIDE (1) MOBILE FILE/STORAGE CARTS BELOW WORK COUNTER, PROVIDE (6) EQUAL WIDTH X 3'-0" TALL UPPER CABINETS, BOTTOM OF UPPER CABINETS AT 5'-0" AFF
C32	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
C 33	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
C38	OFFICE DESK, WORK SURFACE AT 30" AFF, OPEN BELOW WORK SURFACE PROVIDE (3) MOBILE FILE/STORAGE CARTS BELOW WORK COUNTER, PROVIDE (12) EQUAL WIDTH X 3'-0" TALL UPPER CABINETS BOTTOM OF UPPER CABINETS AT 5'-0" AFF
(C39)	STAND UP WORK STATION, WORK SURFACE AT 42" AFF, OPEN BELOW WORK SURFACE, PROVIDE (2) EQUA WIDTH X 3'-0" TALL UPPER CABINETS, BOTTOM OF UPPER CABINETS AT 6'-0" AFF
C40	12 O'CLOCK CABINETS ADJACENT TO DENTAL 12 O'CLOCK CABINET, DESIGN TO MATCH EXISTING SOUTHERN SMILES OFFICE
(C41)	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
\frown	PROVIDE BUMP OUT IN WALL BY FRAMING SECTION WITH 6" METAL STUDS

5/8" GYPSUM WALLBOARD, TYPICAL EXCEPT 5/8" GREENBOARD AT WET LOCATIONS.
 PROVIDE METAL EDGE TRIM AT ALL GYPSUM WALLBOARD OUTSIDE CORNERS AND CASED OPENINGS, TYPICAL.

5. PROVIDE TRANSITION STRIPS BETWEEN DIFFERENT FLOORING MATERIALS.

 PROVIDE ACOUSTIC BATT INSULATION IN ALL WALLS.
 DENTAL EQUIPMENT SHOWN FOR DESIGN INTENT ONLY. COORDINATE INSTALLATION OF ALL DENTAL EQUIPMENT WITH MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.
 REQUIPMENT SHOWN FOR DESIGN TO ANY 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..
 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 TO FABRICATION OF CABINETRY/CASEWORK.







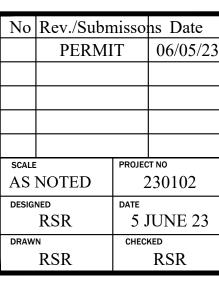
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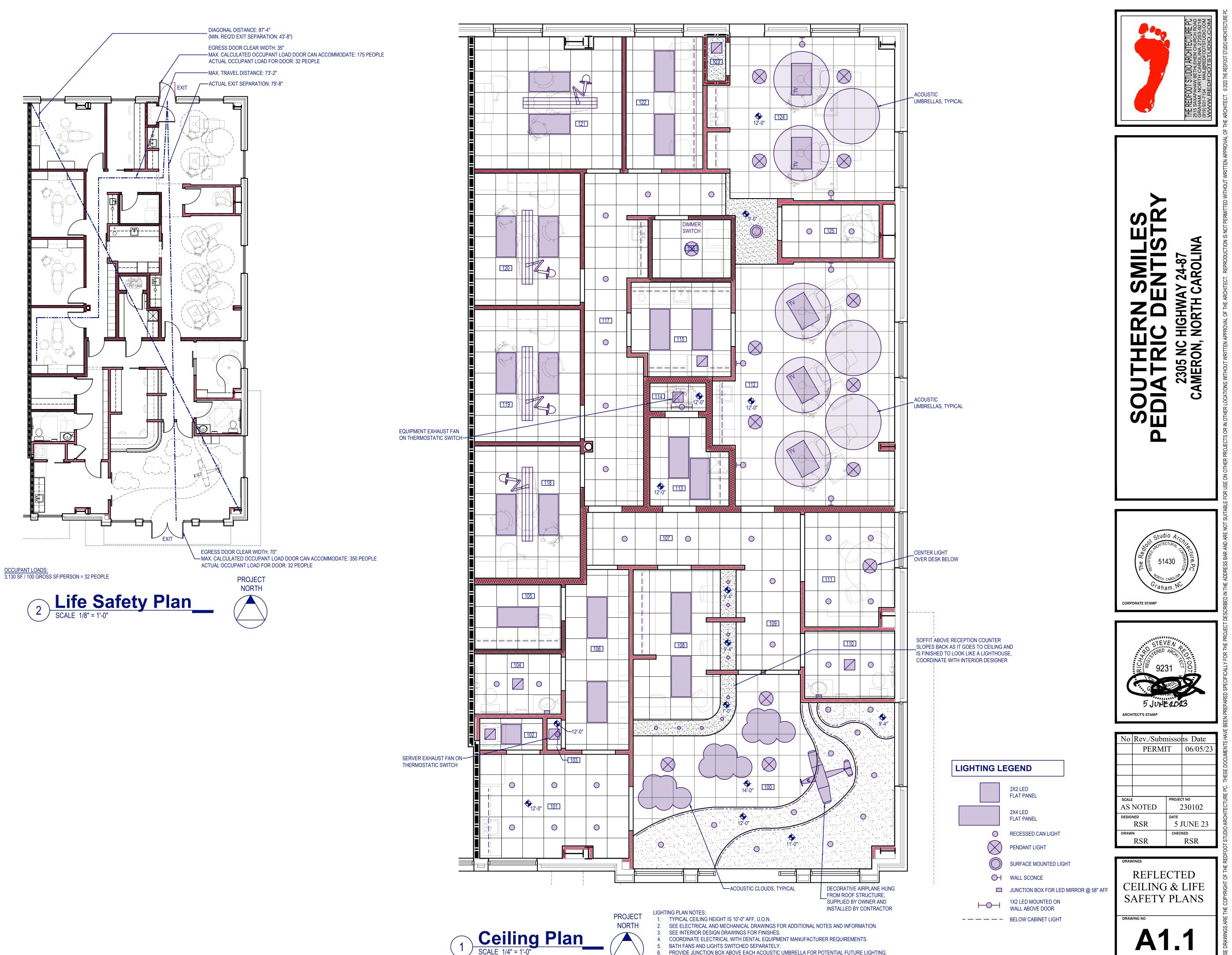




FLOOR PLAN

RAWINGS





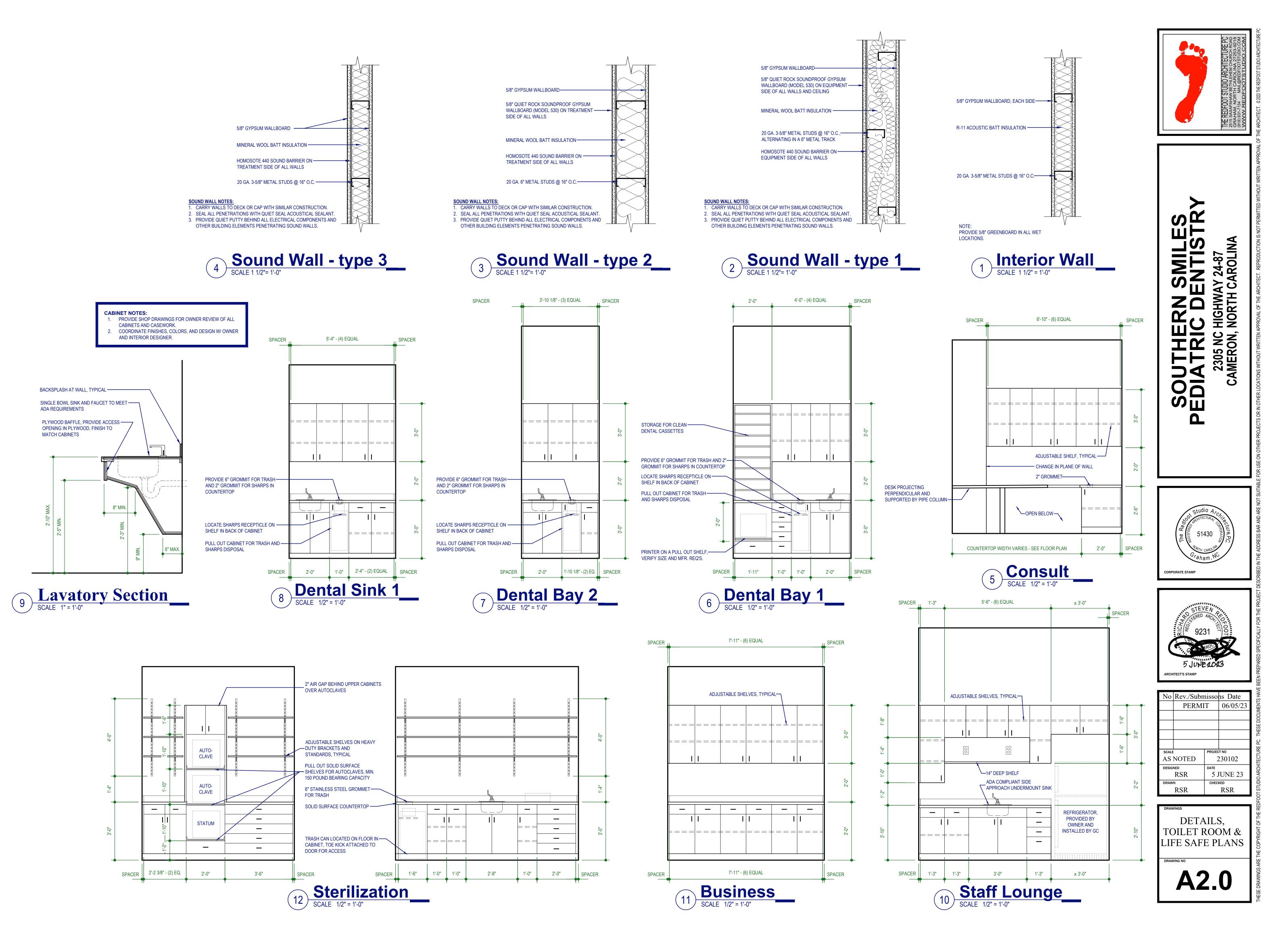




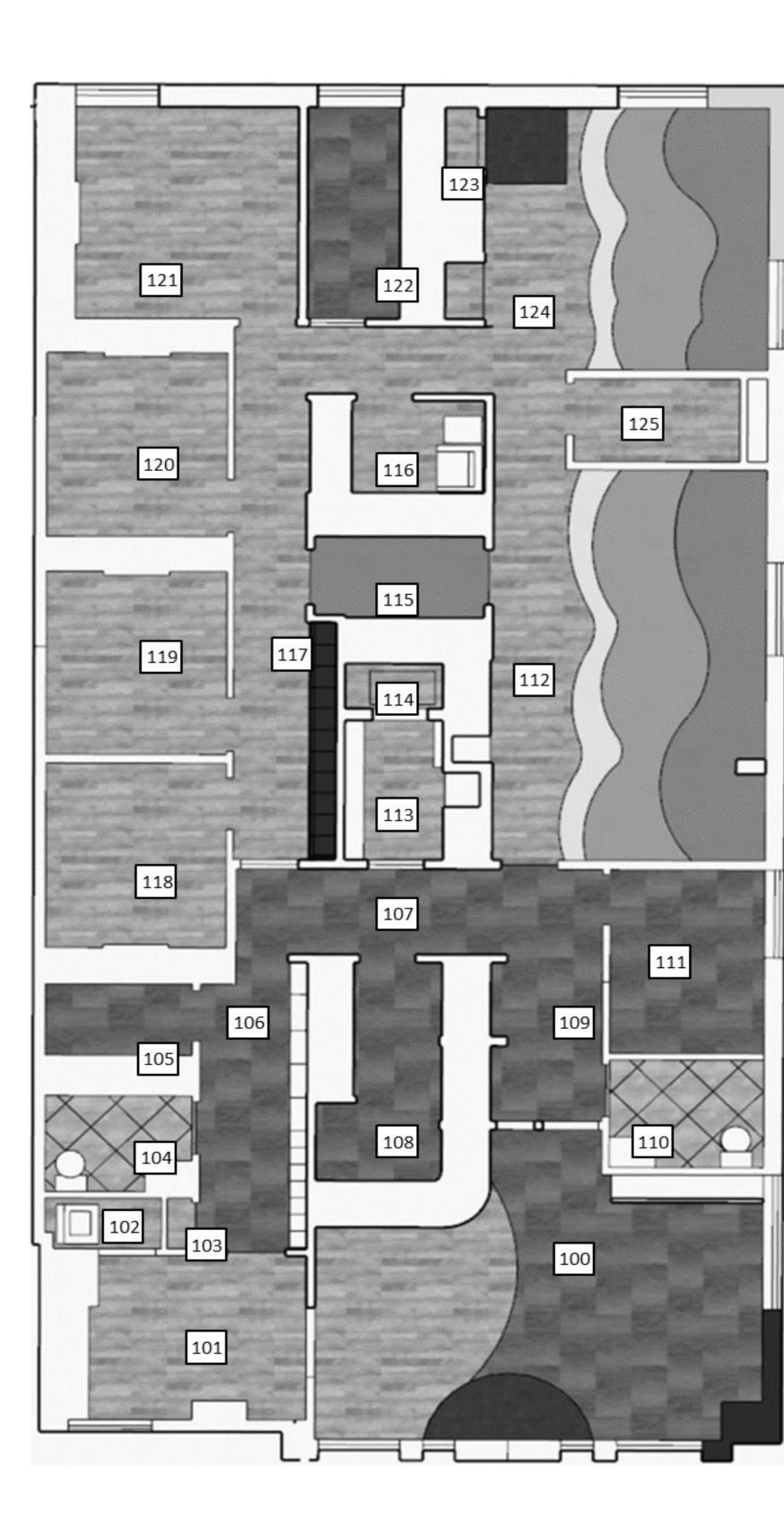


PROVIDE LINEAR DIFFUSERS IN WAITING ROOM GYPSUM WALLBOARD CEILING.. REQUIREMENTS. ANY WOOD USED TO BE FIRE-TREATED.

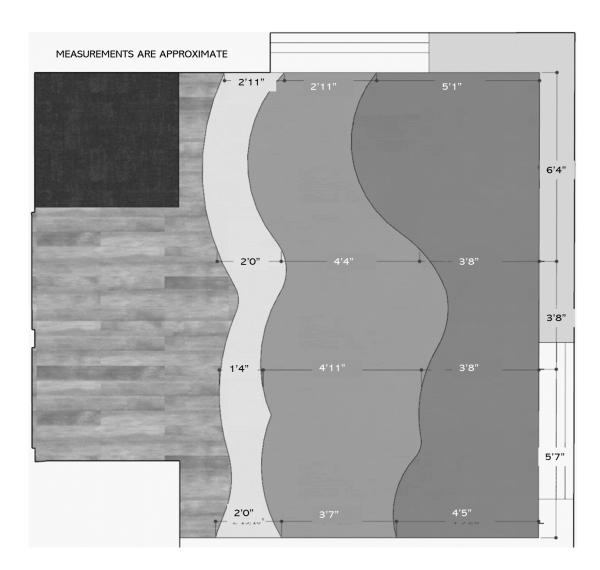
PROVIDE BLOCKING AS REQUIRED FOR DENTAL LIGHTS AND TELEVISIONS, COORDINATE W/ MANUFACTURER'S

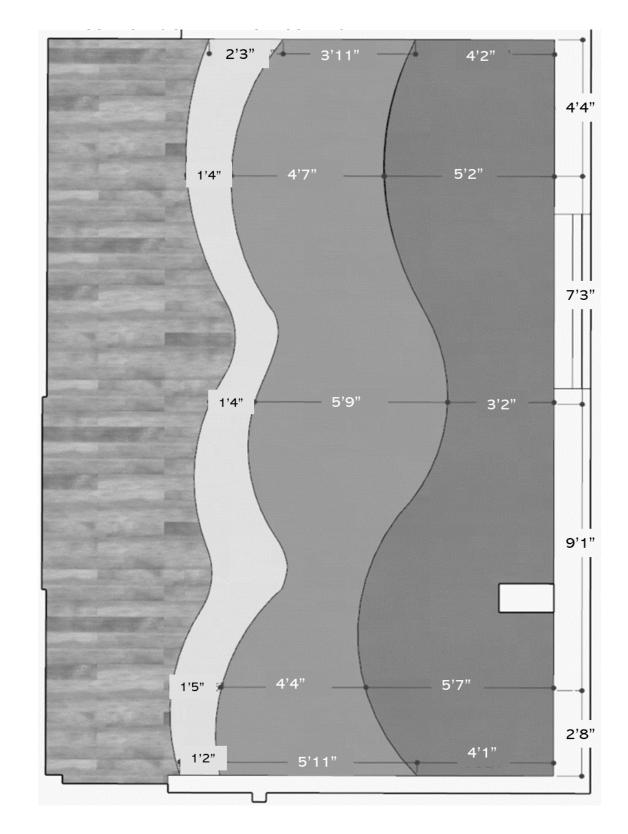


ROOM FINISH	H SCHEDULE		1	1							
					1	Walls				CEILING	
ROOM NO	ROOM NAME	FLOOR	WALL	N	S	E	W	DOORS	CEILING	HEIGHT	REMARKS
100	WAITING	LVT-1 CPT-1,2	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-1, 3, GYP	VARIED	1
101	BREAK ROOM	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	12'-0"	
102 103	LAUNDRY SERVER	LVT-1	WB-1 WB-1	PT-1 PT-1	PT-1 PT-1	PT-1	PT-1 PT-1	PT-6 PT-6	ACT-2 ACT-2	10'-0" 12'-0"	
103	UNISEX	LVT-1 CT-1	WB-1 WB-1	PT-1 PT-1	PT-1 PT-3	PT-1 PT-1	PT-1 PT-3	PT-6	ACT-2	12 -0	
		CPT-1	WB-1 WB-1				PT-3 PT-1	PT-6		10-0	
105 106	CALL CENTER HALL	CPT-1 CPT-1	WB-1 WB-1	PT-1 PT-1	PT-1 PT-1	PT-1 PT-1	PT-1 PT-1	PT-6	ACT-2 ACT-2	10-0	
100	HALL	CPT-1 CPT-1	WB-1 WB-1	PT-1 PT-1	PT-1	PT-1	PT-1 PT-1	PT-6	ACT-2	10'-0"	
107	BUSINESS	CPT-1 CPT-1	WB-1 WB-1	PT-1 PT-1	PT-1	PT-1 PT-1	PT-1 PT-1	PT-6	ACT-2	10-0"	
108	CHECK OUT	CPT-1 CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
109	UNISEX	CT-1	WB-1 WB-1	PT-1 PT-1	PT-1 PT-3	PT-1 PT-3	PT-1 PT-1	PT-6	ACT-2	10'-0"	
110	CONSULT	CPT-1	WB-1 WB-1	PT-1	PT-1	PT-1	PT-1	PT-6	ACT-2	10'-0"	
111	CONSOLI		VVD-T	PT-1,4,	PT-1,4,	P1-1	P1-1	P1-0	ACT-2	10-01	
110				MURAL WC	MURAL WC	DT 1	DT 1	DT C	ACT 1 2	12' 0"	2.2
112	DENTAL BAY 1	LVT-1.2.3.4	WB-1			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		PT-6	ACT-2	10'-0"	
					PT-1 / MURAL WC		PT-1 / MURAL WC				
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"	
				57.4	PT-1,4,	DT (DT (bT 6			
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 ISH SCHEDULE NOTES	LVT-1	WB-1	PT-1	PT-1	PT-3	PT-1	PT-6	GYP	10'-0"	
C. D. E. MATERIALS	ALL FLOORING TRANSITIC ANY NATURAL STONE SLA ALL FREESTANDING WOR	BS TO BE SELECTED BY	Y DESIGNER		-	L (I.E. ECFLAT24 2.0)					
CT-1	BEST TILE, PROVENCE PO	RCELAIN, 24 X 24" ECR	U FOR FIELI	D, CUT TO 4" X24	FOR WALL BASE (CAP	WITH ALUMINUM TILE E	DGE); MAPEI 5027 SILV	ER GROUT (S	SOURCE: BROCK CON	TRACT, SCOUT	919-239-9224)
CPT-1	PATCRAFT VAPOROUS 105				•					·	
CPT-2	PATCRAFT ACCESS 10533,	TREK 00590, 24" X 24'	' (SOURCE:	BROCK CONTRAC	T, SCOUT 919-239-922	4)					
LVT-1	PATCRAFT STYLE 1420V TI	MBER GROVE II, 20 MI	L, COLOR 0	0174 HEATHER-V	3 5.96 X 48" PLANK (SC	OURCE: BROCK CONTRAC	T, SCOUT 919-239-922	.4)			
LVT-2	SHAW CONTRACT, PIGME	NT DIRECT GLUE, 0503	3V, 7 X 48",	BLUE (SOURCE: I	BROCK CONTRACT, SCC	OUT 919-239-9224)					
LVT-3	SHAW CONTRACT, PIGME	NT DIRECT GLUE, 20 N	/IIL, 0503V,	7 X 48", CYAN (S	OURCE: BROCK CONTRA	ACT, SCOUT 919-239-922	24)				
LVT-4	SHAW CONTRACT, PIGME	NT DIRECT GLUE, 20 N	/IIL, 0503V,	7 X 48", BONE (S	OURCE: BROCK CONTR	ACT, SCOUT 919-239-92	24)				
WB-1	TARKETT/JOHNSONITE 4"	BASE IN 92 BLUE LAG	oon (souf	CE: BROCK CONT	RACT, SCOUT 919-239	-9224)					
PT-1	WALLS: SHERWIN WILLIA	MS, DURATION SATIN	FINISH SW7	063 'NEBULOUS	WHITE'						
PT-2	ACCENT: SHERWIN WILLIA	AMS, DURATION SATIN	I FINISH SW	7063 'RAVE RED'							
PT-3	ACCENT: SHERWIN WILLIA	,			D'						
PT-4	ACCENT: SHERWIN WILLIA	•									
PT-5	ACCENT: SHERWIN WILLIA	•									
PT-6	DOORS: SHERWIN WILLIA	,									
PT-7	ACT-1 GRID: SHERWIN W	,									
ACT-1	CERTAINTEED, SYMPHON				,			•	JRCE: BROCK CONTRA	ACT, ERIC CHRIS	TIAN 919-614-
ACT-2	CERTAINTEED, SYMPHON			,	, , , , , , , , , , , , , , , , , , , ,		CT, ERIC CHRISTIAN 919	-614-8104)			
ACT-3	TURF.DESIGN CUSTOM O	RDER (DETAILED DESIG	SN ON FILE	AT SOURCE: BRO	CK CONTRACT, ERIC CH	RISTIAN 919-614-8104)					
REMARKS											
1 2	GYPSUM WALLBOARD BU PAINT BUMPOUT WALL F	EATURE EITHER SIDE C	OF IMAGING	SOFFIT PT-4	FORM SOFFITS. NOTE	ACT GRID TO BE FIELD PA	AINTED. REFERENCE AC	T-1 AND REF	LECTED CEILING PLAN	Ν.	
3	PAINT ON ALL WALLS, TH	EN WALL COVERING O	in noted V	VALLS.							
4											
5											
6											





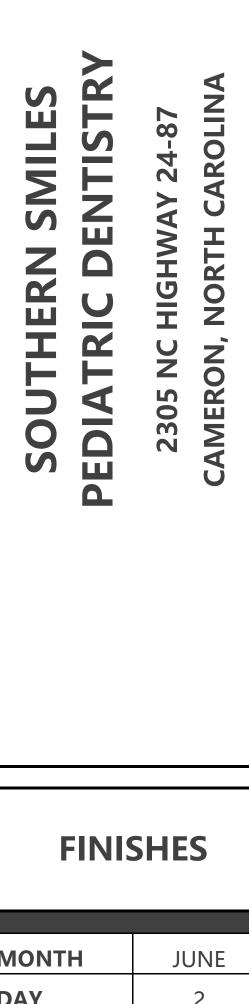






DESIGNER MICHELLE CUMMINGS

CONTACT 617.233.3189



MONTH	JUNE
DAY	2
YEAR	2023
ID	1.0

					COLOR	
OOM NO	ТҮРЕ	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"
		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	

									COLOR		1	
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	1	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



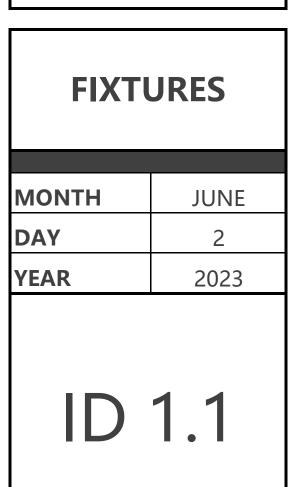
DESIGNER

MICHELLE CUMMINGS

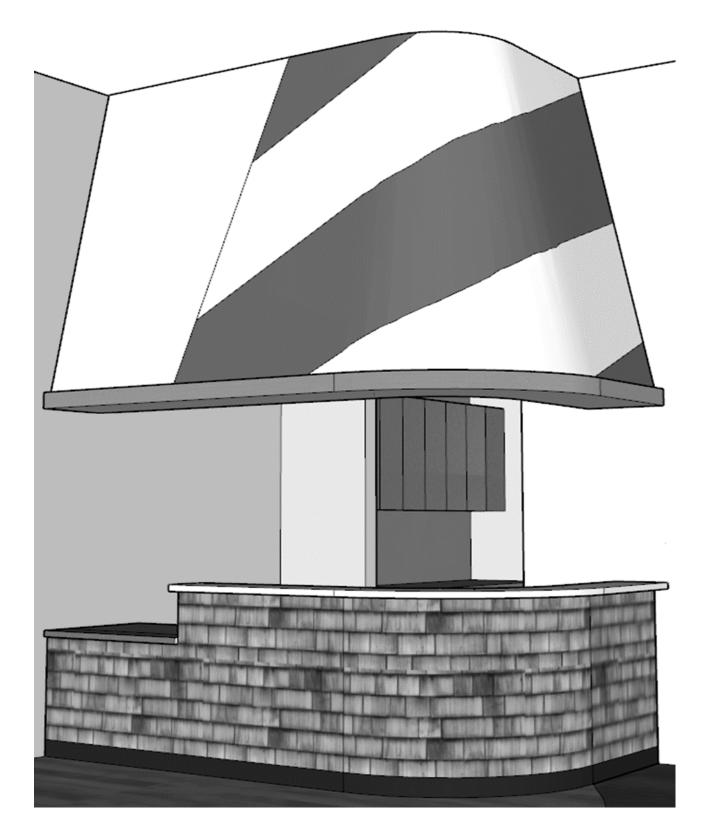
CONTACT

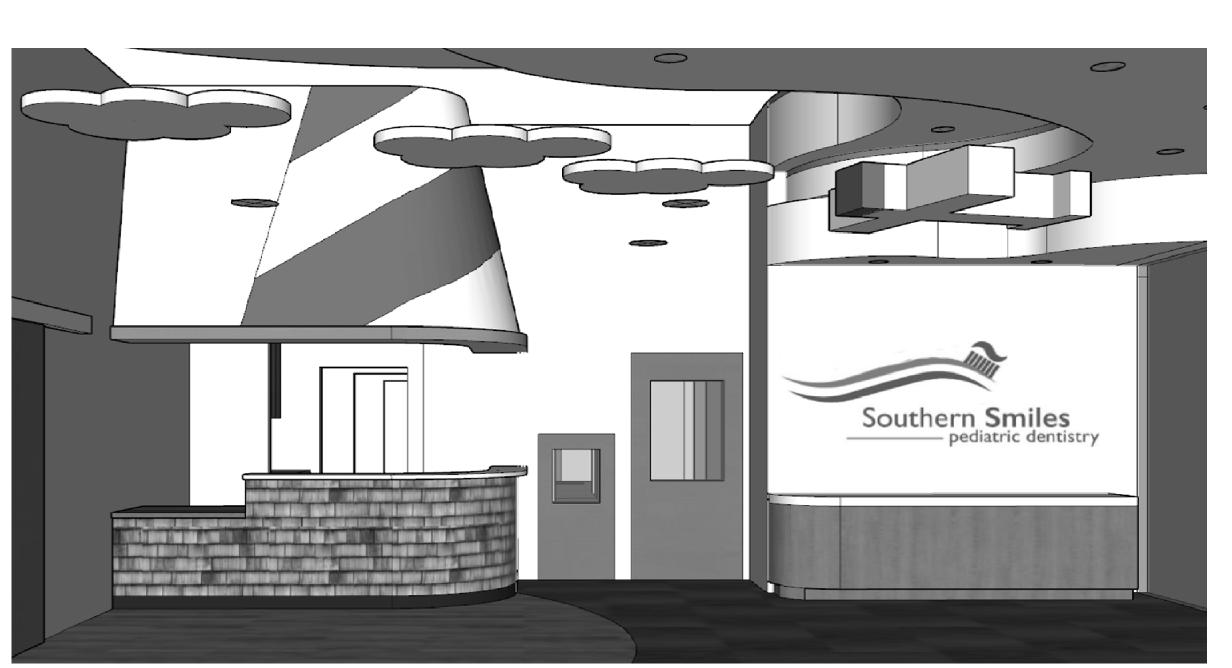
617.233.3189

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



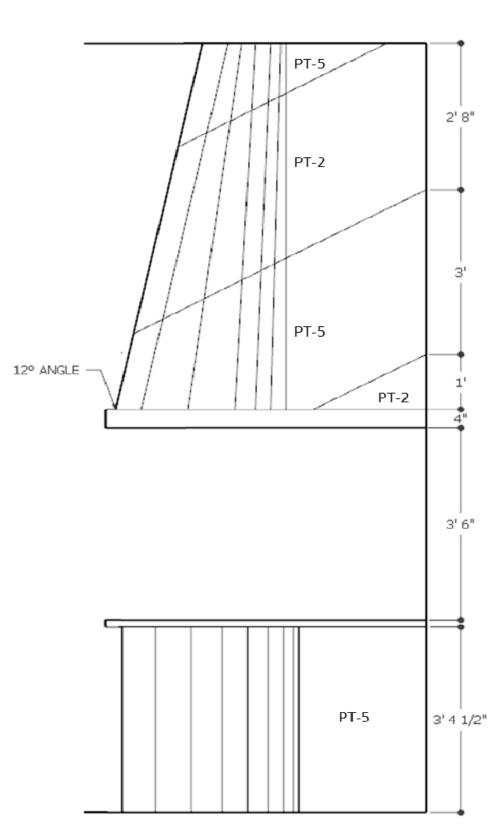
NOTES	
	PROVIDE KNEE WALL TO FORM FACE OF DESK AND SUPPORT COUNTERS FINISH W/ PAINTED GYPSUM WALLBOARD EACH SIDE, PI
Α.	AFF, OPEN BELOW WORK SURFACE, LEVEL 2 GRANITE TRANSACTION COUNTERS AT 42" AFF, PROVIDE (2) MOVABLE BELOW COUN
В.	APPLY MURAL PAPER TO FRONT OF TRANSACTION COUNTER WITH RUBBER BASE
С.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

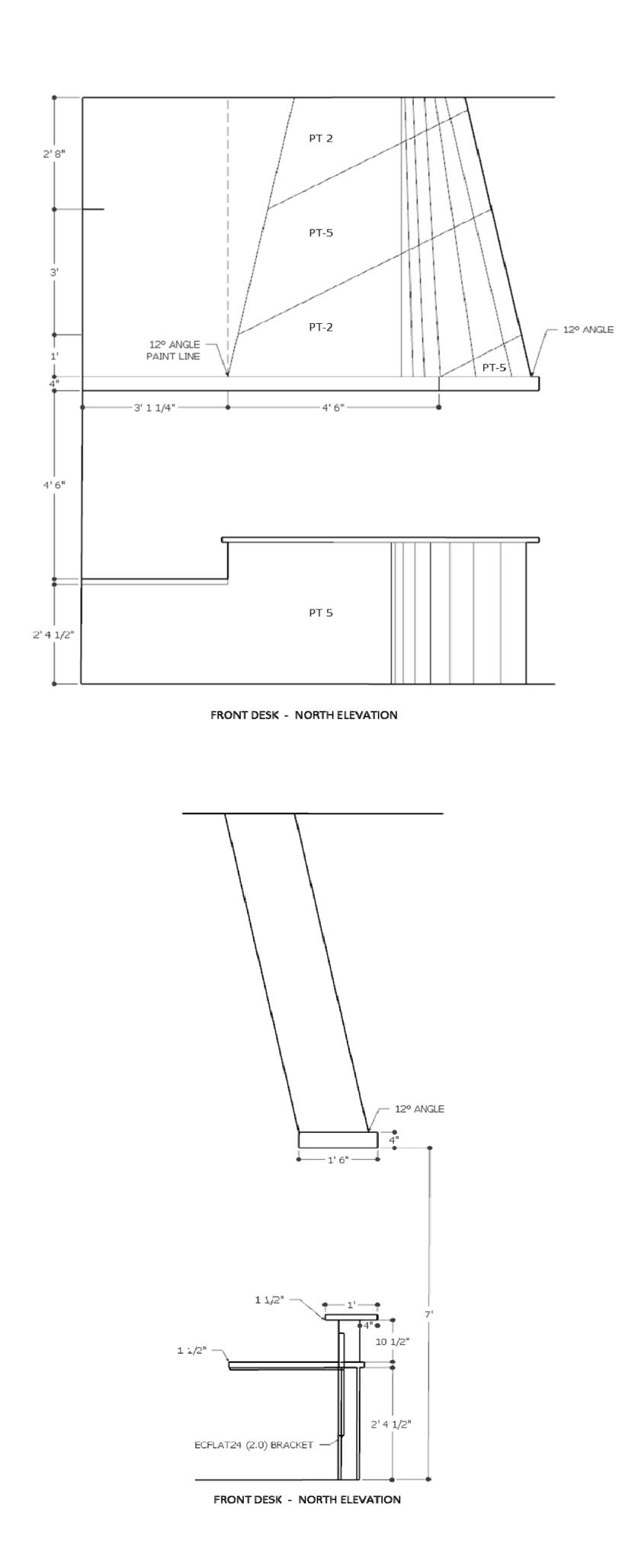




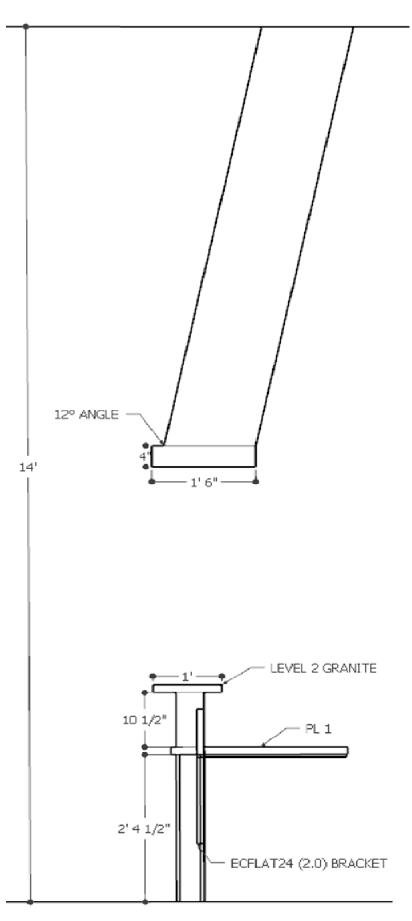
WATTING 100 - SKETCH FOR CONTEXT

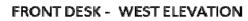
PROVIDE PLASTIC LAMINATE WORK SURFACE AT 30" UNTER FILE CABINETS

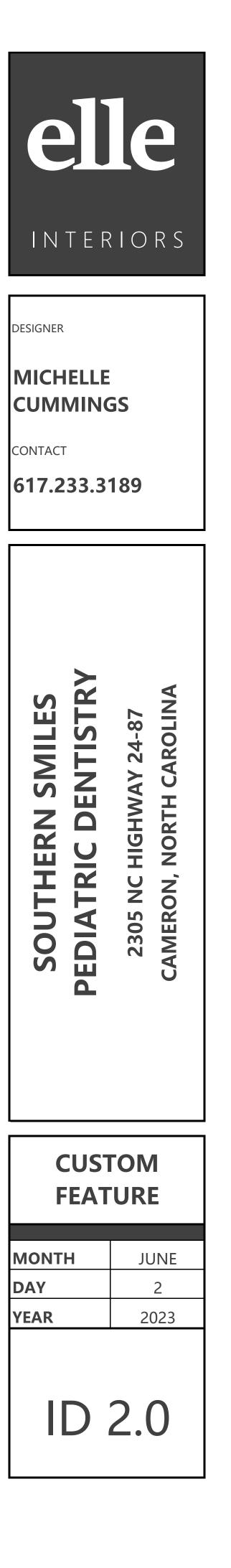




FRONT DESK - WEST ELEVATION







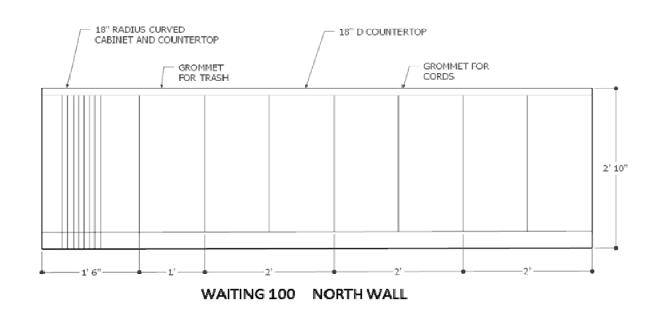
			CABI	NETRY	
ROOM NO	ROOM NAME	WALL	BODY	COUNTER	REMARKS
100	WAITING	NORTH	PL-2	ST-1	1
101	BREAK ROOM	WEST	PL-4	ST-1	1
104	UNISEX	SOUTH	PL-1	ST-1	1
105	CALL CENTER	SOUTH	PL-2	PL-2	
106	HALL	EAST	PL-1	SS-1	
108	BUSINESS	EAST, SOUTH, WEST	PL-1	PL-1	
109	CHECK OUT	WEST	NA	ST-1	
110	UNISEX	SOUTH	PL-1	ST-1	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	

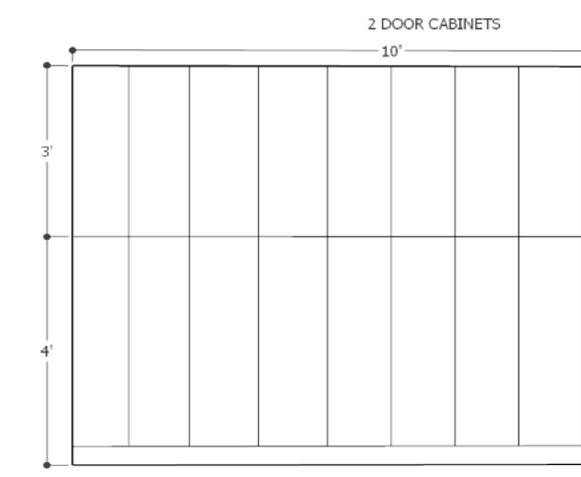
GENERAL CAE	BINETRY NOTES
A	PROVIDE SHOP DRAWINGS FOR OWNER REVIEW OF ALL CABINETS AND CASEWORK
В	COORDINATE AND VERIFY FINISHES AND COLORS WITH INTERIOR DESIGNER AND/OR OWNER
C	PROVIDE SOFT CLOSE HARDWARE ON ALL CABINETS
D	CONFIRM LOCKING PREFERENCES WITH OWNER
E	ALL FREESTANDING WORKSURFACES TO BE SUPPORTED WITH FLAT CONCEALED BRACKETS IN WALL (I.E. ECFLAT24 2.0)
CABINET FINI	SHES
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 HAR	RDWARE CONTRACT
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 NOT	TES Contraction of the second s
1	NATURAL STONE SLAB TO BE SELECTED BY DESIGNER
2	
3	

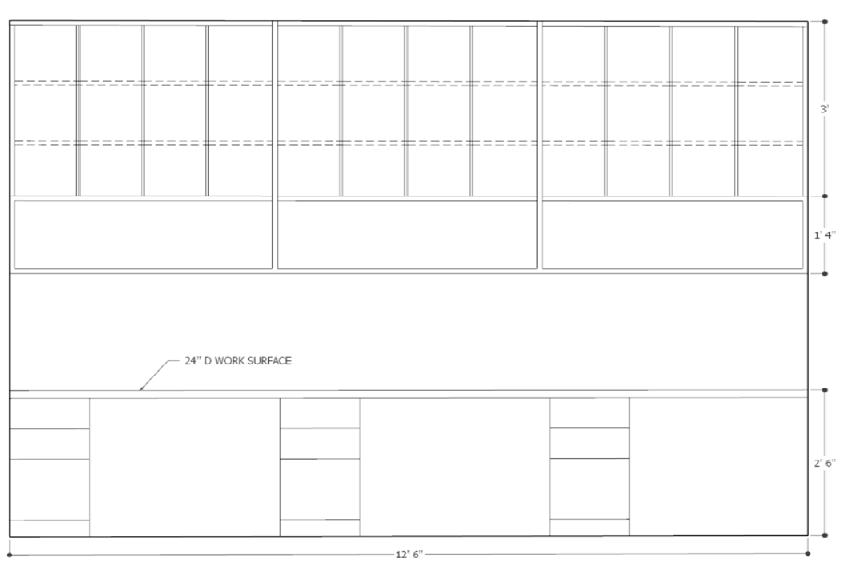
10 48" H X 18" D 2 DOOR CABINETS AND 2 SINGLE DOOR 48" H X 18" D CABINETS

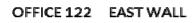
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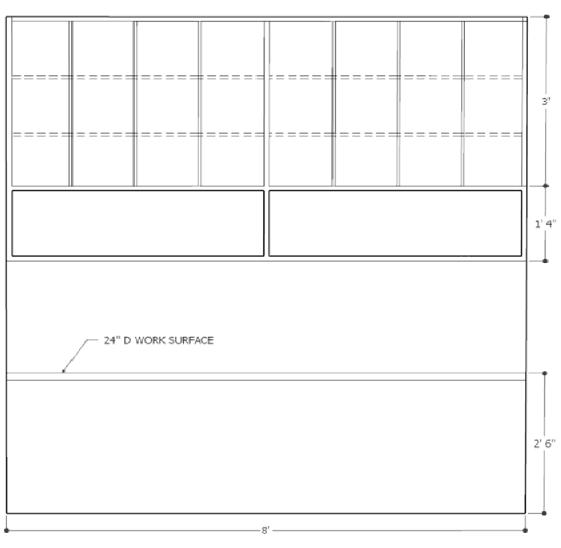
HALL 117 - EAST WALL

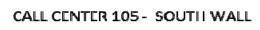


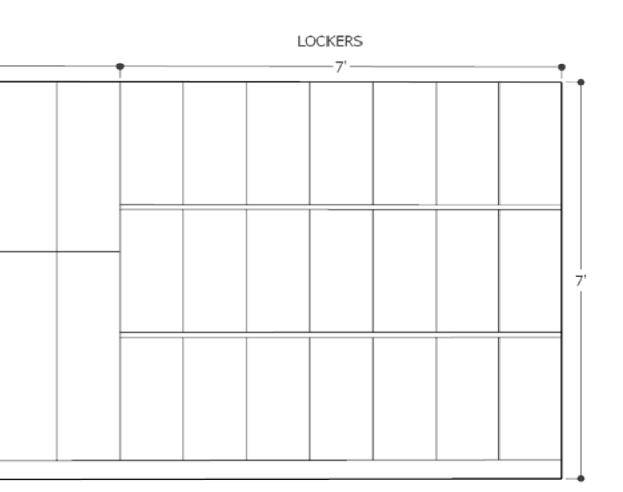




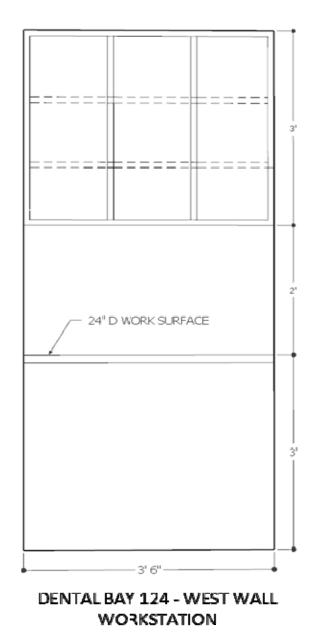








HALL 106 - EAST WALL



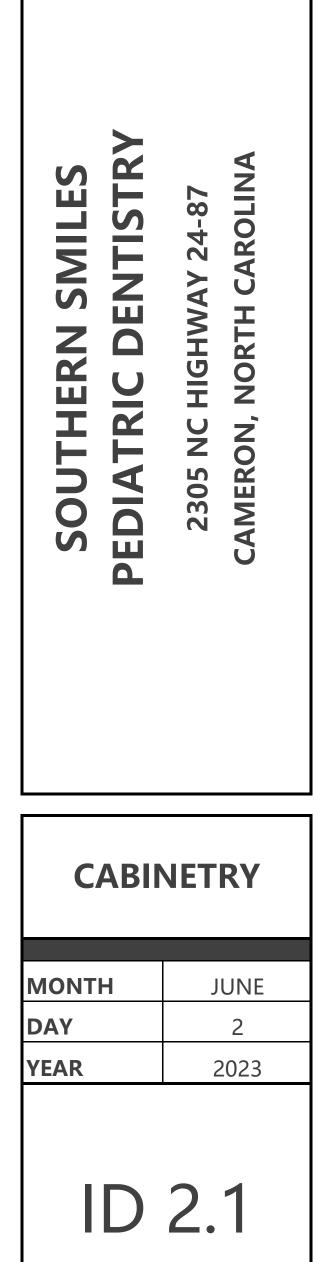


DESIGNER

MICHELLE CUMMINGS

CONTACT

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			PLUMBING FIXTURE SCHEDULE		
SYMBOL	FIXTURE	MANUFACTURER	FITTING	HW	Γ
P1	TWD PIECE TANK TYPE ADA WATER CLOSET	TOTO CST744EL OR EQUAL BY AMERICAN STANDARD OR KOHLER	TWD-PIECE VITREDUS CHINA TDILET WITH HIGH-PRDFILE TANK, ELDNGATED 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	-	
P2	COUNTER 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 '	
P2A	BRUSH UP SINK	Elkay Asana RlR12	FAUCET: MDEN 8948	1/2″	T
P2B	BREAK SINK	ELKAY DLR2219104	FAUCET: MDEN 8707	1/2″	T
P2C	STERI SINK	ELKAY DLR221910	FAUCET: MDEN 8248	1/2″	
Р3	MDP SINK	FIAT MSB2424 DR EQUAL BY FLDRESTONE DR STERN WILLIAMS	DUTSIDE DIMENSIONS OF 24 X24 X10. 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 830-AA CHROME PLATED SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HODK AND 3/4 INCH HOSE THREAD ON SPOUT.	1/2 '	
P4	DRINKING FDUNTAIN	ELKAY EZH2D 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.	-	
Р5	WASHING MACHINE SHUTDFF BDX	WATTS SERIES 2M2 DWB DR APPROVED EQUAL	SINGLE-HANDLE WASH MACHINE SHUTDFF VALVE. THE BALL-TYPE VALVE SHALL SIMULTANEDUSLY 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″	
P5A	WATER HAMMER ARRESTOR	ZURN Z1700 SERIES DR EQUAL BY WATTS DR SIDUX CHIEF	INSTALL ON BRANCH LINES PER MFG'S INSTRUCTIONS. PROVIDE ACCESS PANEL WHERE NECESSARY WHERE LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS	-	
P6	REFRIGERATOR VALVE BOX	DATEY DR APPROVED EQUAL	HIGH IMPACT POLYSTYRENE BOX WITH 1/4 TURN BRASS BALL VALVE. COMPLIANT WITH NSF 61, SECTION 9.	-	
FS	FLOOR SINK	WATTS FS-740 DR EQUAL BY ZURN DR JR SMITH	12 INCH SQUARE X 8 INCH DEEP SANITARY FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR, LODSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB DUTLET.	-	
HB	INTERIOR HOSE BIBB	WOODFORD MODEL 26 OR EQUAL BY ZURN OR MIFAB	PROVIDE CHECK VALVE AND ANTI-SIPHON PROTECTION IF NOT INTEGRAL TO UNIT		
RPZ	1' RPZ BACKFLOW PREVENTER	WATTS LF909M1 QT DR EQUAL BY CONBRACD 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 SHUTDFF VALVE. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE 1013 AND AWWA C511	-	
XT	EXPANSION TANK	AMTROL ST-5 OR EQUAL BY WATTS OR BELL & GOSSETT	INSTALL ON COLD WATER LINE BETWEEN WATER HEATER AND RPZ	-	
TMV	THERMOSTATIC MIXING VALVE	WATTS LFMMV DR EQUAL BY LAWLER DR 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'	
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″	T
VAC-1	VACUUM PUMP (DRY)	SEE DENTAL DRAWINGS	AMALGAM SEPARATOR INSTALLED BY PLUMBER. COORDINATE REQUIREMENTS WITH DENTAL DRAWINGS.	1/2″	T
COMP-1	DENTAL AIR COMPRESSOR	SEE DENTAL DRAWINGS	COORDINATE REQUIREMENTS WITH DENTAL DRAWINGS		T
FCD	FLOOR CLEANOUT	ZURN, WATTS, JR SMITH	EPDXY CDATED CAST IRON FLOOR CLEANOUT WITH ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB INLET.	-	t
WCD	WALL CLEANDUT	ZURN, WATTS, DR JR SMITH	CAST IRDN CLEANDUT FERRULE WITH THREADED BRASS CDUNTERSUNK CLEANDUT PLUG, STAINLESS STEEL ACCESS CDVER, AND VANDAL PROOF STAINLESS STEEL SCREW	-	
FS	FLOOR SINK	ZURN FD-2375	6" DEEP CAST IRDN PDRCELAIN ENAMEL. ANTI-SPLASH V/ DDME STRAINER, DEEP SEAL TRAP, 3/4" GRATE AND TRAP PRIMER AS REQUIRED.	_	T

ELECTRIC WATER HEATER SCHEDULE

							-				
ARK	MFG	MODEL	tank vol	INPUT	RECOVERY	SET POINT	PDV	IER	CONNEC	CTIONS	OPTIONS
лик	Mru	MUULL	GALS	k₩	GPH € 60° ∆T	۴F	VOLTAGE	PHASE	HOT	COLD	
+-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

GENERAL PLUMBING NOTES:

DMINISTRATIVE 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. 5. 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 THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS 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 THIS CONTRACT. 8. DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS
- FOR DIMENSIONS. . 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 PLENUMS.
- 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
- APPLYING INSULATION MATERIALS. INSULATION SHALL BE BY KNAUF, 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. 5. FAUCETS AND FIXTURE FITTINGS SHALL CONFORM TO ASME A112.18.1.

3' WATER CLOSET (FLUSH TANK) PUBLIC 1 4.00 4.00 5.00 0.00 5.00 0.00 5.00 2' LAVATORY PUBLIC 6 1.00 6.00 1.50 1.50 2.00 9.00 12.00 2' DRINKING FOUNTAIN PUBLIC 2 0.50 1.00 0.25 0.00 0.25 0.00 0.50 2' MOP SINK PUBLIC 1 2.00 2.00 2.25 2.25 3.00 2.25 3.00 2' 2' DEMAND FIXTURE GPM QTY TDTAL GPM TDTAL DFU 13.0 3' CLOTHES WASHER 4 1 4.00 UTHER FIXTURES' GPM 2.00 2.00 2.00					PLUMBING LINE	S SIZING TAI	BLE				
3* WATER CLOSET (FLUSH TANKO PUBLIC 1 4.00 4.00 5.00 0.00 5.00 0.00 5.00 2* LAVATURY PUBLIC 6 1.00 6.00 1.50 1.50 2.00 9.00 12.00 2* DRINKING FOUNTAIN PUBLIC 2 0.50 1.00 0.25 0.00 0.25 0.00 0.50 2* PUBLIC 1 2.00 2.00 2.25 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.25 3.00 2.00 2.00 2.01 11.3 20.5 0.00 0.00 1.50	WASTE	FIXTURE TYPE	DCCUPANCY	QTY	DRAINAGE FI>	KTURE UNITS		WATER	SUPPLY FIXTU	RE UNITS	
WATER CLISET (FLUSH TANKO PUBLIC 1 4.00 4.00 5.00 0.00 5.00 0.00 5.00 2' LAVATORY PUBLIC 6 1.00 6.00 1.50 2.00 9.00 12.00 2' DRIMKING FUNTAIN PUBLIC 2 0.50 1.00 0.25 0.00 0.25 0.00 0.50 2' PUBLIC 1 2.00 2.00 2.25 2.25 0.00 0.25 0.00 0.50 2' PUBLIC 1 2.00 2.00 2.25 2.25 3.00 <td>24</td> <td></td> <td></td> <td></td> <td>EACH</td> <td>TOTAL</td> <td>CW</td> <td>HW</td> <td>CW & HW</td> <td>HW TOTAL</td> <td>TOTAL</td>	24				EACH	TOTAL	CW	HW	CW & HW	HW TOTAL	TOTAL
2" DRINKING FDUNTAIN PUBLIC 2 0.50 1.00 0.25 0.00 0.25 2" MP SINK PUBLIC 1 2.00 2.00 2.25 2.25 3.00 2.25	3-	WATER CLOSET (FLUSH TANK)	PUBLIC	1	4. 00	4. 00	5. 00	0. 00	5. 00	0. 00	5. 00
Initial and the fubrication of the fubrication		LAVATORY	PUBLIC	6	1. 00	6. 00	1. 50	1. 50	2. 00	9. 00	12. 00
Z' Z' Z' 2' DEMAND FIXTURE GPM QTY TDTAL GPM TDTAL DFU 13.0 3' CLDTHES WASHER 4 1 4.00 TDTAL WESUS 11.3 20.5 2' CLDTHES WASHER 4 1 4.00 TDTAL WESUS 11.3 20.5 2' CDTHER FIXTURES' GPM 2.00	5,	DRINKING FOUNTAIN	PUBLIC	2	0. 50	1. 00	0. 25	0. 00	0. 25	0. 00	0. 50
2" DEMAND FIXTURE GPM OTY TOTAL GPM TOTAL OFU 13.0 3" CLOTHES VASHER 4 1 4.00 TOTAL VESUS 11.3 20.5 2" GPM 1 4.00 TOTAL VESUS 11.3 20.5 2" GPM 15.40 19.60 0THER FIXTURES' GPM 2.00 2.00 2" TOTAL GPM 17.40 21.60 0THER FIXTURES' GPM 2.00 2.00 3" MINIMUM BUILDING DRAIN SIZE 4"	2′	MDP SINK	PUBLIC	1	2. 00	2. 00	2. 25	2. 25	3. 00	2. 25	3. 00
3' DEMAND FIXTURE GPM QTY TUTAL GFM TUTAL DFU 13.0 3' CLOTHES VASHER 4 1 4.00 TUTAL UFSUS 11.3 20.5 2' CLOTHES VASHER 4 1 4.00 TUTAL UFSUS 11.3 20.5 2' GPM 15.40 19.60 0 0 15.40 19.60 2' Image: Colored C	2′										
3' CLOTHES VASHER 4 1 4.00 TOTAL VFSUS 11.3 20.5 2' GPM 15.40 19.61 2' OTHER FIXTURES' GPM 2.00 2.00 3' Interfixtures' GPM 17.40 21.61 3' Interfixtures' GPM 17.40 21.61 3' Interfixtures' GPM 17.40 21.61 3' LINETYPE LEGEND Interfixtures' GPM Interfixtures' GPM - COLD WATER SUPPLY	2 ′										
3 GPM 15.40 19.60 2' DTHER FIXTURES' GPM 2.00 2.00 3' TOTAL GPM 17.40 21.60 3' MINIMUM BUILDING DRAIN SIZE 4' - MINIMUM VATER LINE SIZE 1' - COLD WATER SUPPLY 1' - HINIMUM VATER SUPPLY - - HOT WATER SUPPLY - - SANITARY SEWER LINE - - COMPRESSED AR (1/2" COPPER) DO		DEMAND FIXTURE	GPM	QTY	TOTAL GPM				total DFU	13.	0
2' DTHER FIXTURES' GPM 2.00 <td>3″</td> <td>CLOTHES WASHER</td> <td>4</td> <td>1</td> <td>4. 00</td> <td></td> <td></td> <td></td> <td>TOTAL WFSUs</td> <td>11. 3</td> <td>20. 5</td>	3″	CLOTHES WASHER	4	1	4. 00				TOTAL WFSUs	11. 3	20. 5
2' TOTAL GPM 17.40 21.61 3' MINIMUM BUILDING DRAIN SIZE 4' - MINIMUM VATER LINE SIZE 1' - - - 3' LINETYPE LEGEND - - + - + - - - - - - - + - - -									GPM	15. 40	19.60
3' Initial drive 17.40 21.60 3' MINIMUM BUILDING DRAIN SIZE 4' - MINIMUM VATER LINE SIZE 1' - - - 3' LINETYPE LEGEND - - - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>other f</td> <td>IXTURES' GPM</td> <td>2. 00</td> <td>2. 00</td>								other f	IXTURES' GPM	2. 00	2. 00
Image: minimum building drain size 4' Image: minimum water line size 1' Image: minimum water supply Image: minimum size Image: minimum water supply Image: minimum size Image: minimum size Image: minimum size	2'								total gpm	17. 40	21.60
- COLD WATER SUPPLY	-						_				
- HOT WATER SUPPLY · · · DO NOT TAP WATER SANITARY SEWER LINE DO NOT TAP WATER VENT LINE LINE AHEAD OF RPZ.	3'	LIN	ETYPE L	EGENI)						
- sanitary sewer line — — — — — — — — — — — — — — — — — — —											
- COMPRESSED AIR (1/2" COPPER) LINE AHEAD OF RPZ.	-	SANITARY SEWER LIN	VE ——		· · ·	·					
	-	COMPRESSED AIR (1/2"	COPPER)					NE A	AHEAD		PZ.
	 -	VACUUM	(2" PVC)								
	 -										

CW

1/2″

1/2"

1/2″

1/2**″**

1/2″

1/2"

1/2"

VARIES

1/2″

1/2″

3/4″

1/2"

3/4**″**

CLEAN AND DRY, AND ALL FOREIGN MATERIALS ARE REMOVED BEFORE

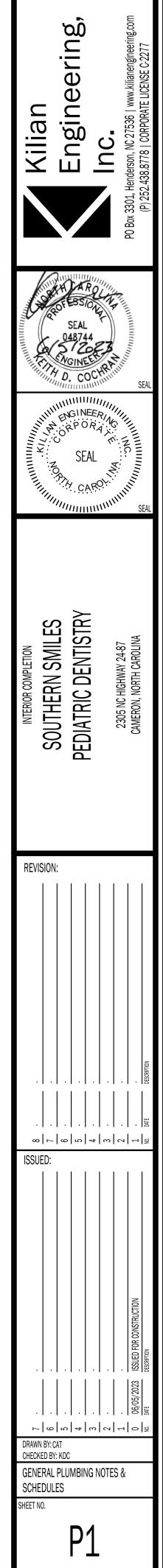
FAUCETS AND FIXTURE FITTINGS THAT SUPPLY DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE REQUIREMENTS OF NSF 61, SECTION 9. FIXTURE FITTINGS, FAUCETS, AND DIVERTERS shall be installed and adjusted so that the flow of hot WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT HAND SIDE OF THE FIXTURE FITTING.

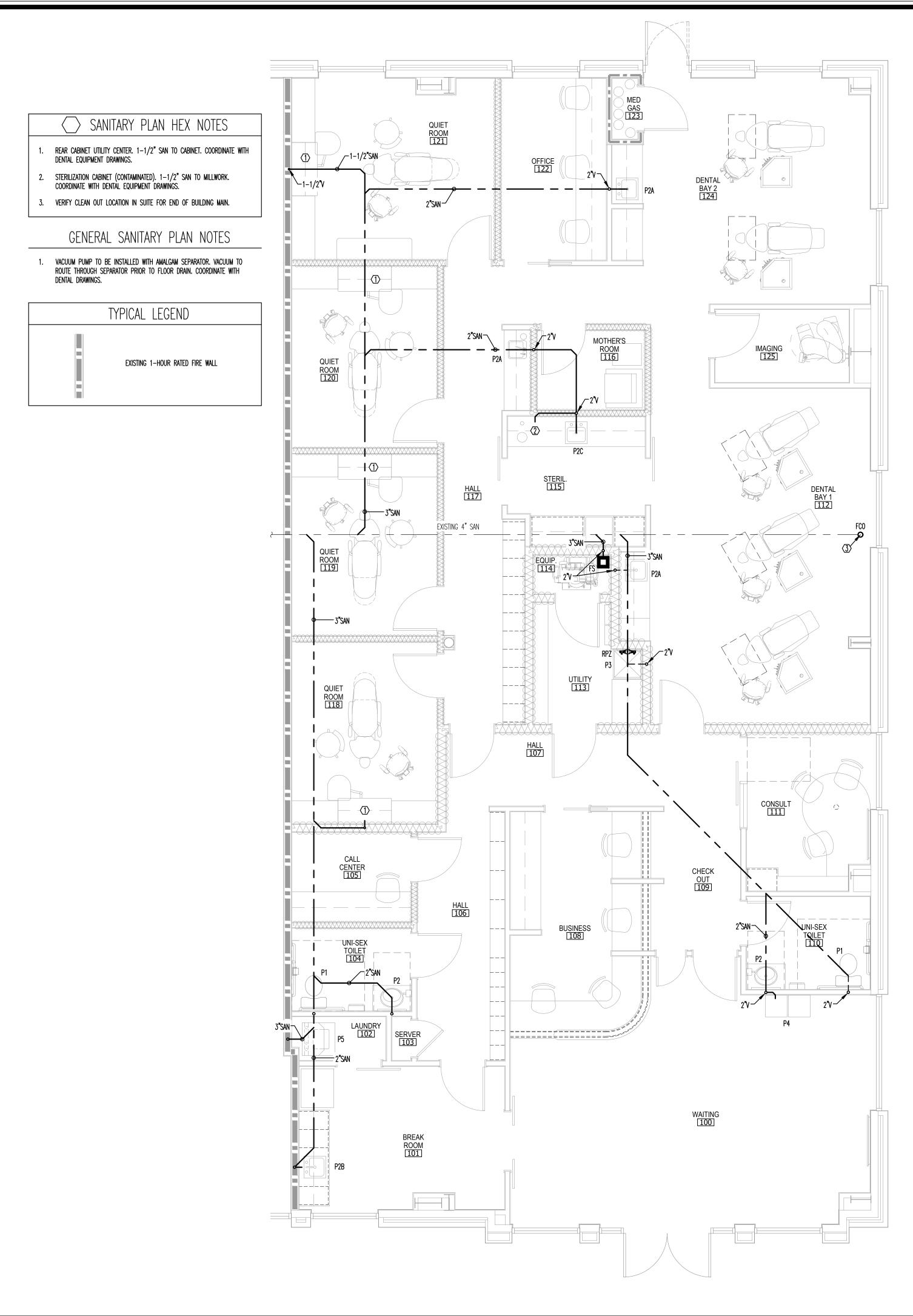
- 6. BACKFLOW PREVENTION SHALL BE IN ACCORDANCE WITH SECTION 608.13 OF THE NC PLUMBING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS SHALL CONFORM TO ASSE 1013 OR AWWA C511. THE RELIEF OPENING SHALL DISCHARGE BY AIR GAP. AIR GAPS SHALL COMPLY WITH ASME 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.

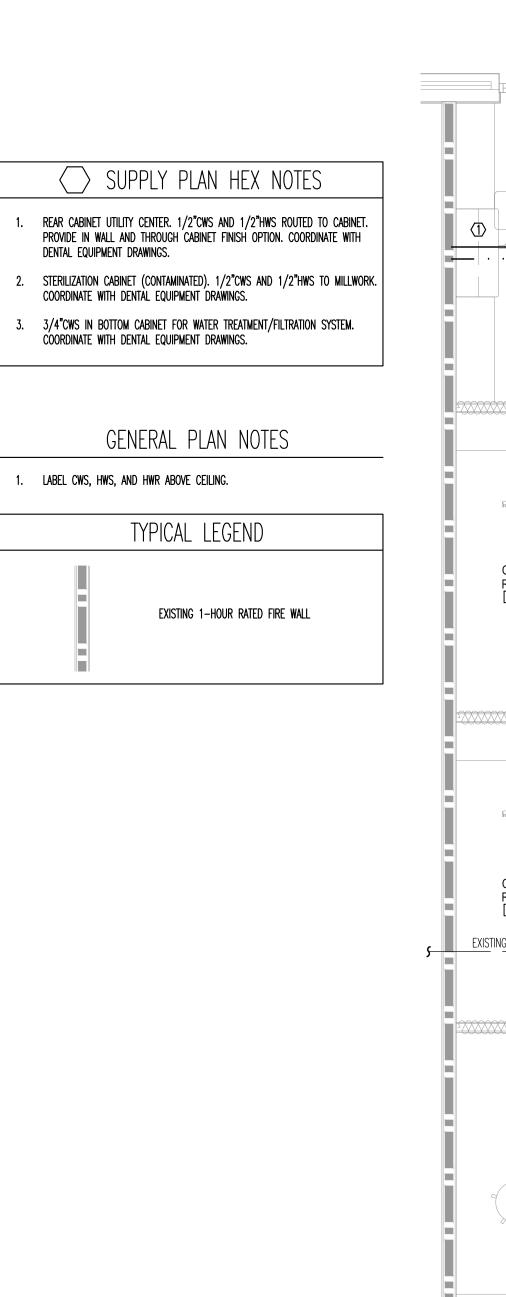
- 1. EXTEND DOMESTIC WATER PIPE AS INDICATED ON THE PLANS AND INSTALL DOMESTIC WATER DISTRIBUTION PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRING THE SAME. WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5 FEET OF UNDISTURBED OR COMPACTED EARTH IN ACCORDANCE WITH 603.2. PROVIDE ALL FITTINGS, 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

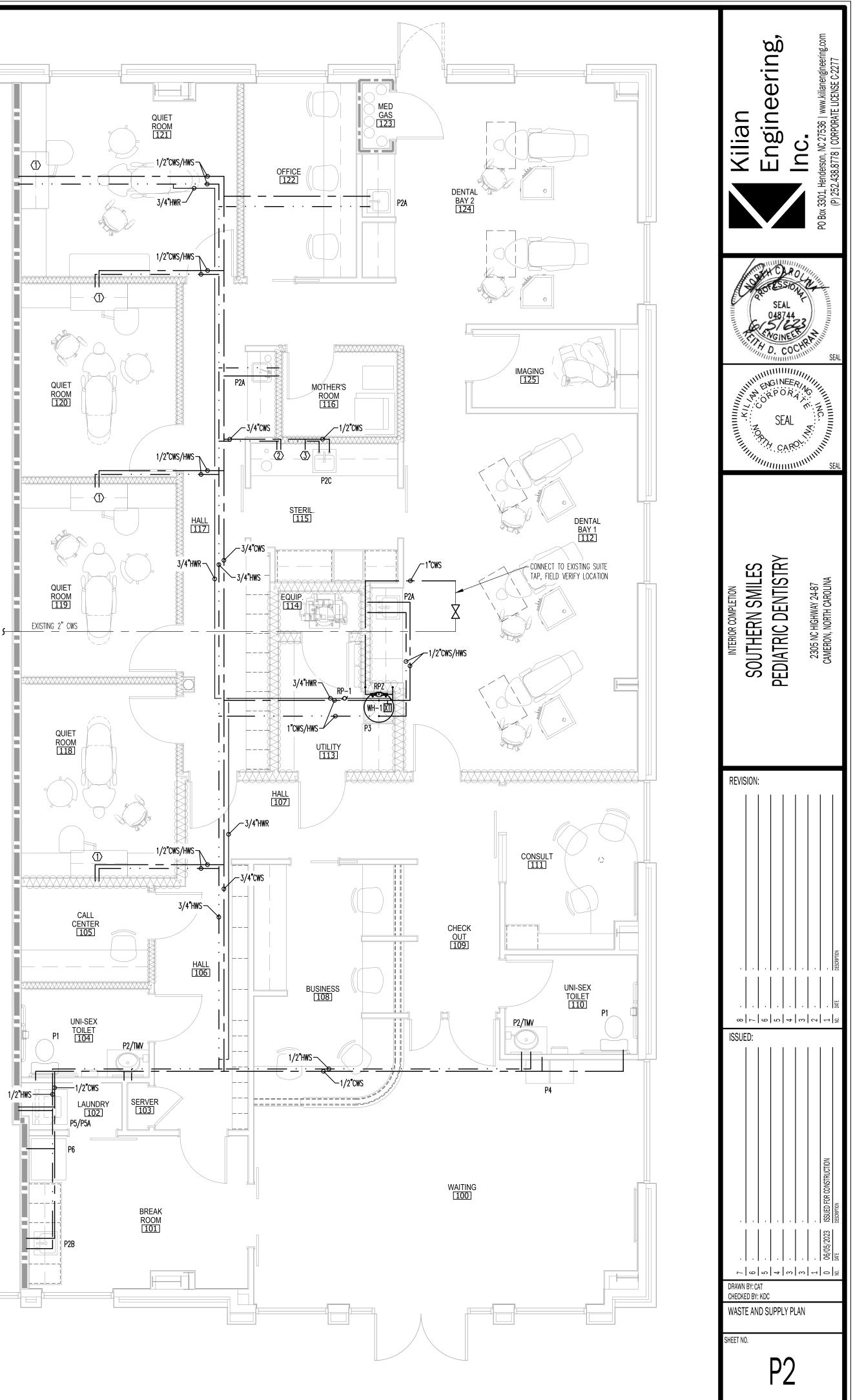
PROVIDED AS SHOWN ON THE PLANS OR AS REQUIRED. 11. ADJUST STOPS AND VALVES FOR INTENDED FLOW RATE TO FIXTURES

- 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 CEILING OR WITHIN WALLS UNLESS OTHERWISE NOTED. SOIL AND WASTE PIPING SHALL BE INSTALLED TO PROVIDE PROTECTION AGAINST 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
- 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



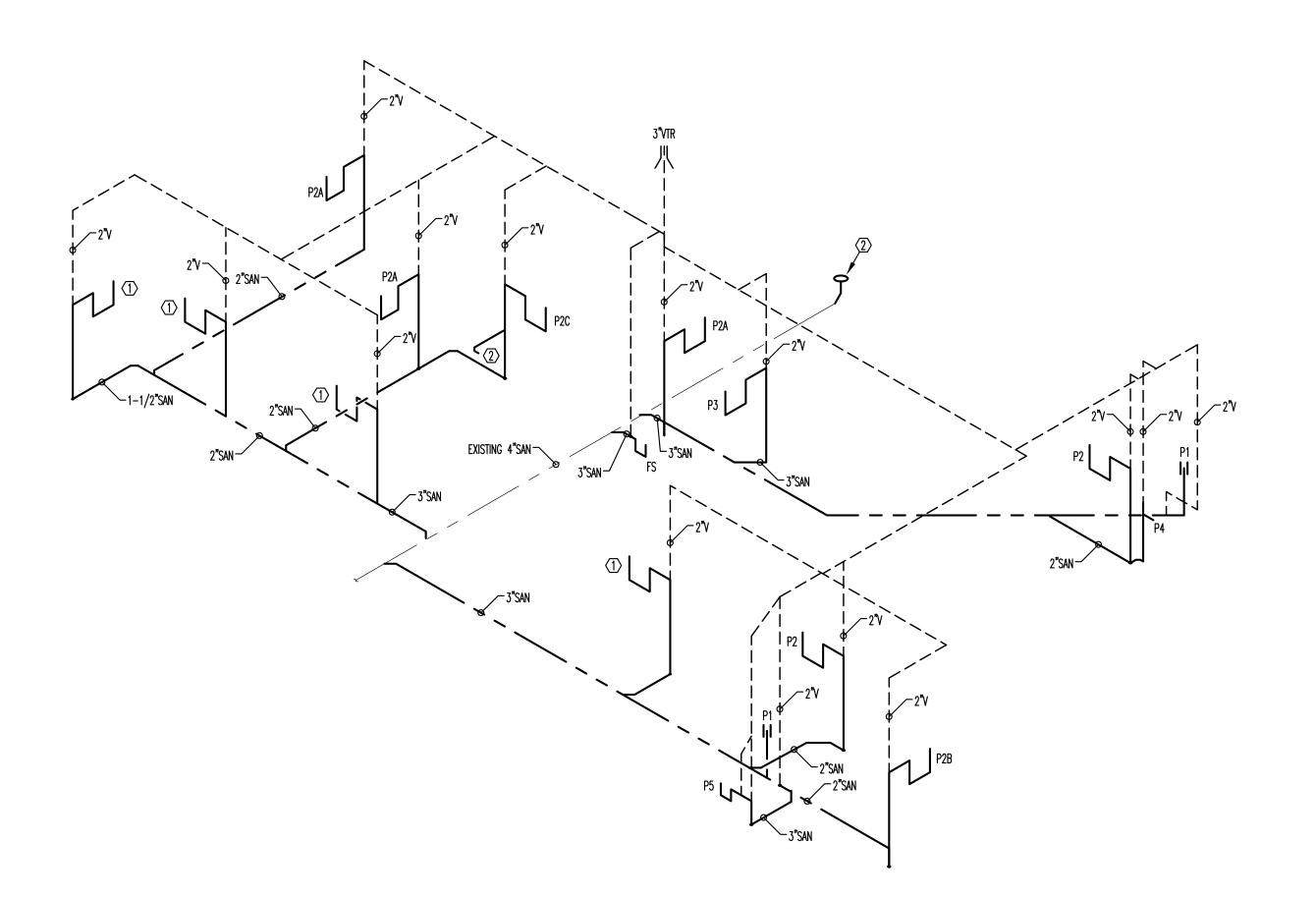


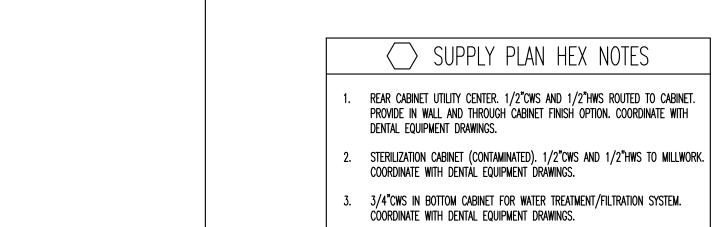




\bigcirc SANITARY PLAN HEX NOTES

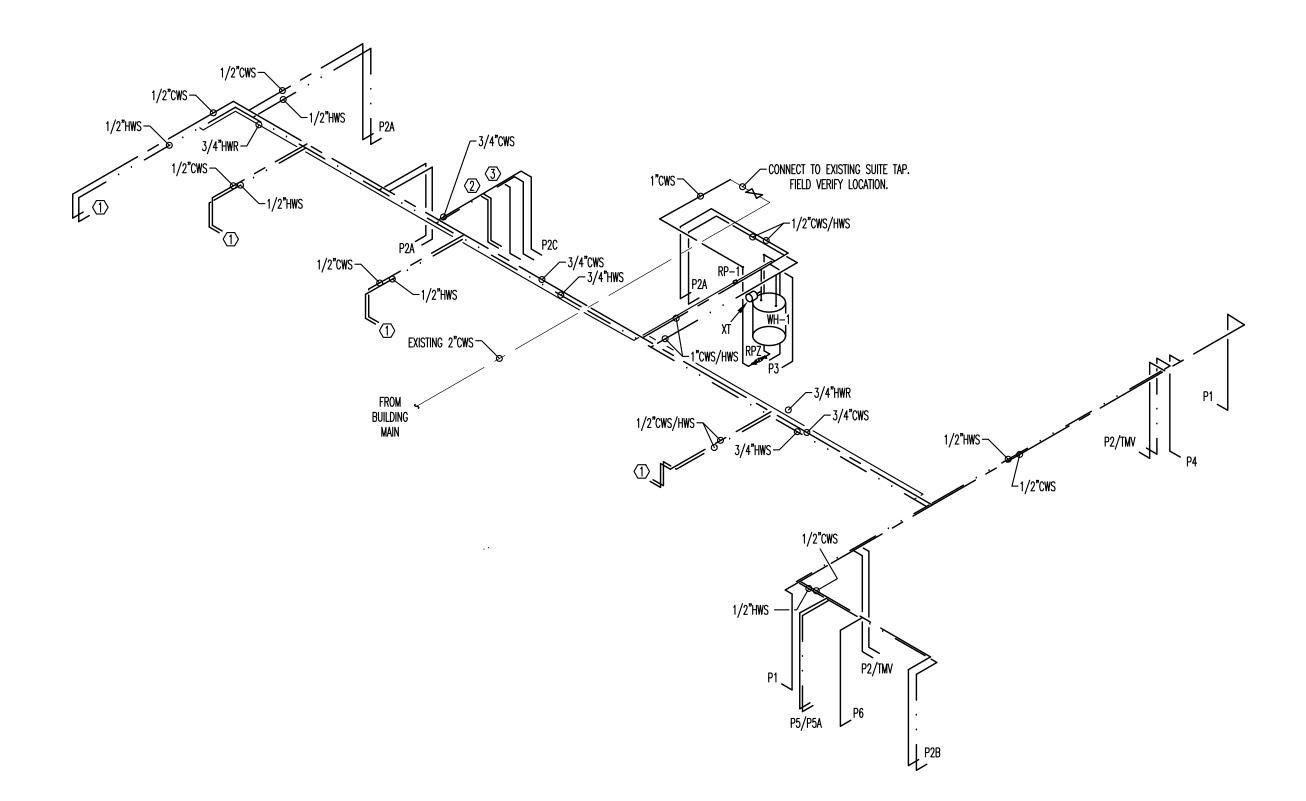
- 1. REAR CABINET UTILITY CENTER. 1-1/2" SAN TO CABINET. COORDINATE WITH DENTAL EQUIPMENT DRAWINGS.
- 2. Sterilization cabinet (contaminated). 1-1/2" san to millwork. Coordinate with dental equipment drawings.
- 3. VERIFY CLEAN OUT LOCATION IN SUITE FOR END OF BUILDING MAIN.
 - GENERAL SANITARY PLAN NOTES
- 1. VACUUM PUMP TO BE INSTALLED WITH AMALGAM SEPARATOR. VACUUM TO ROUTE THROUGH SEPARATOR PRIOR TO FLOOR DRAIN. COORDINATE WITH DENTAL DRAWINGS.

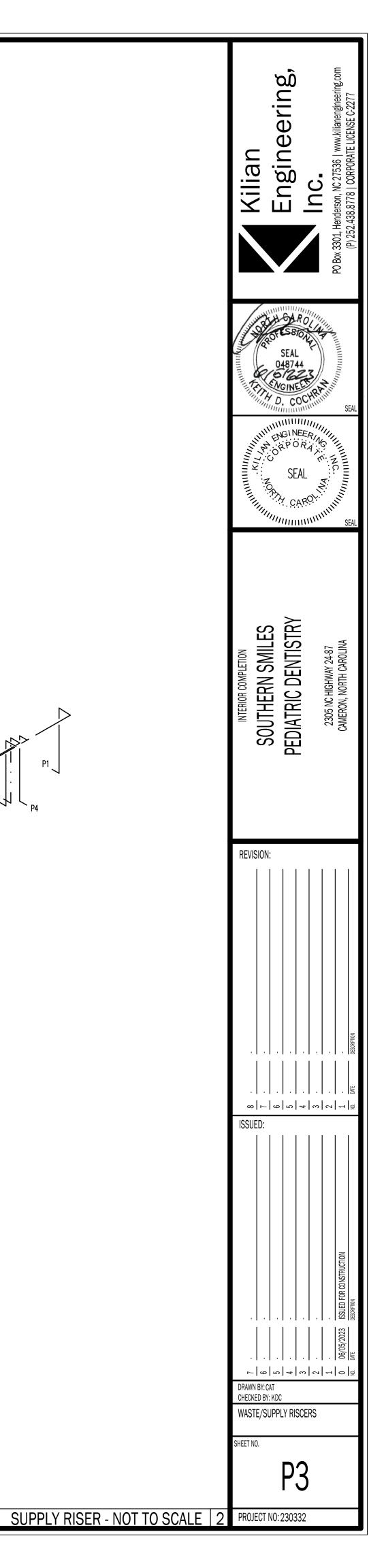




GENERAL SUPPLY PLAN NOTES

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





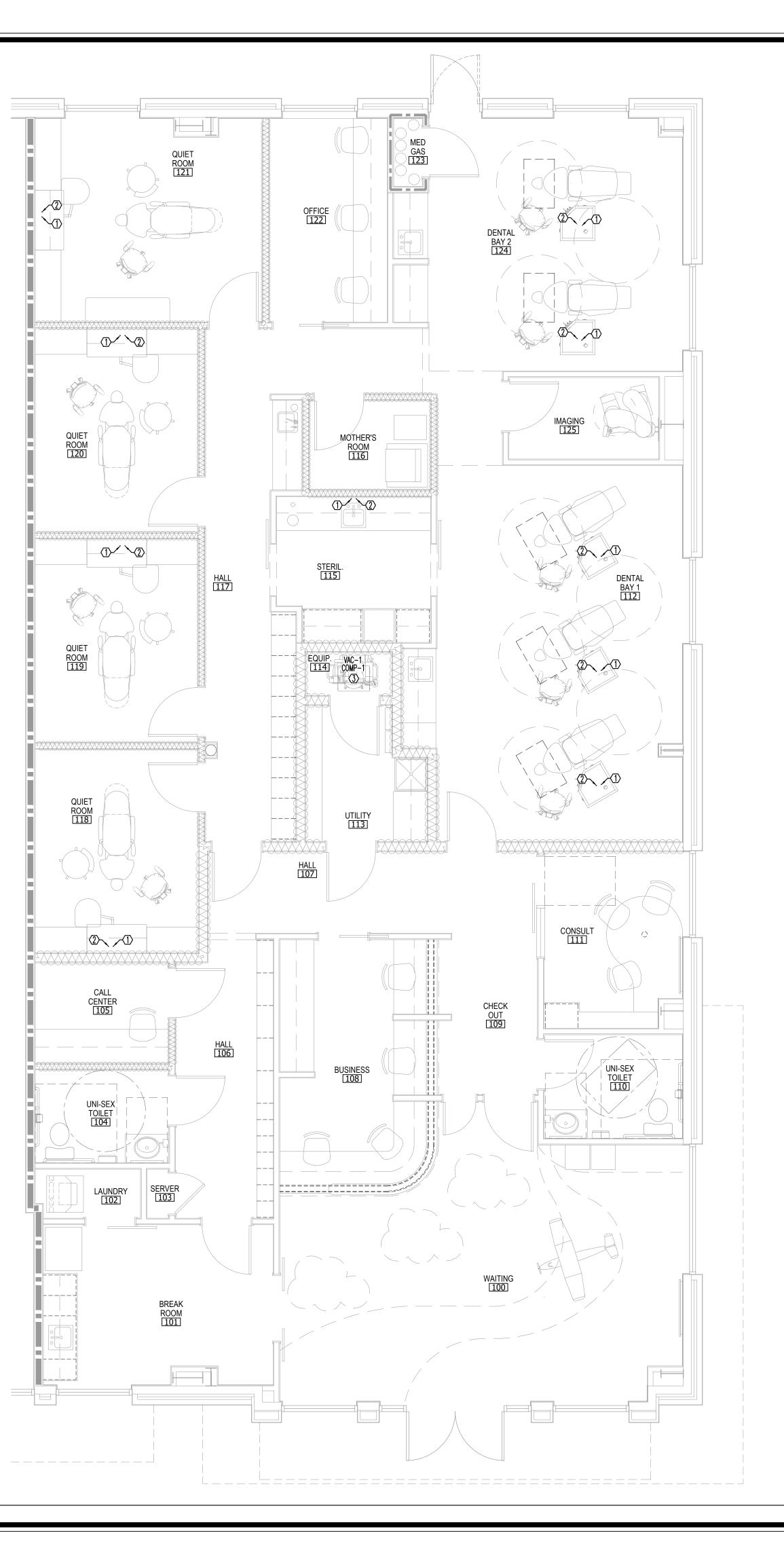
DENTAL EQUIPMENT PLAN HEX NOTES 1. AIR COMPRESSOR CONNECTION PORT. 1/2" TO 3/8" SHUT OFF AIR CONNECTION. 2. VACUUM CONNECTION PORT. 3. AIR COMPRESSOR AND VACUUM PUMP STACKED.

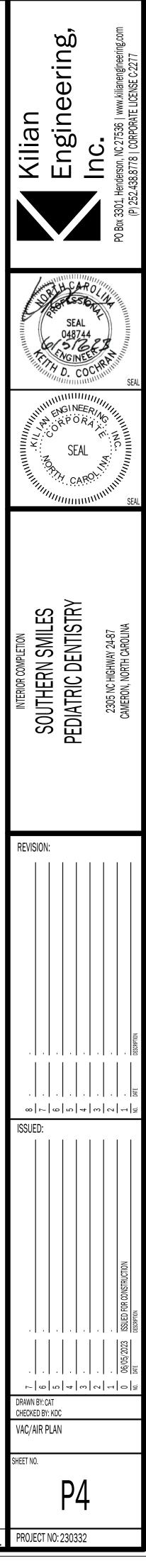
GENERAL DENTAL EQUIPMENT PLAN NOTES

1. COORDINATE INSTALLATION WITH DENTAL DRAWINGS.

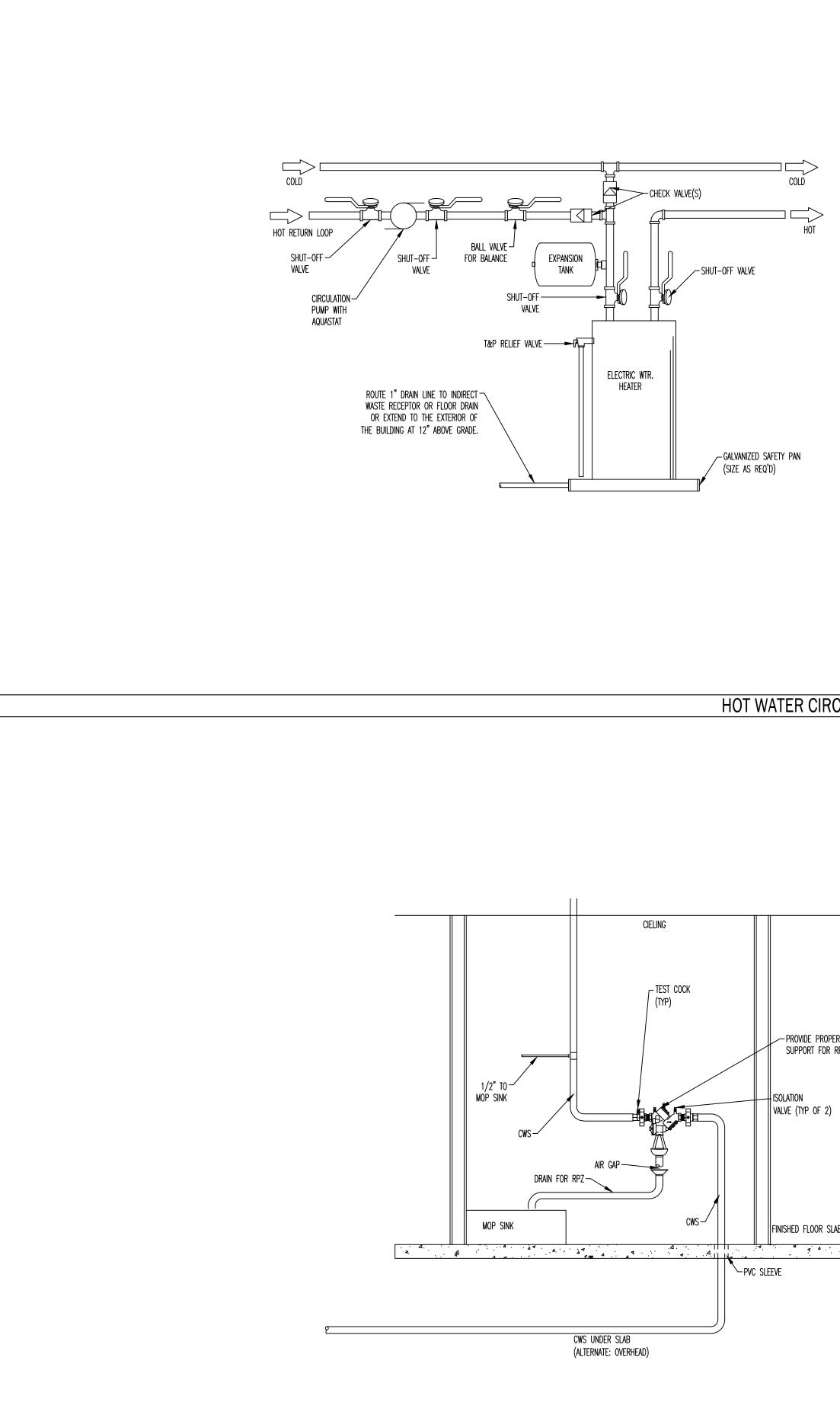
TYPICAL LEGEND



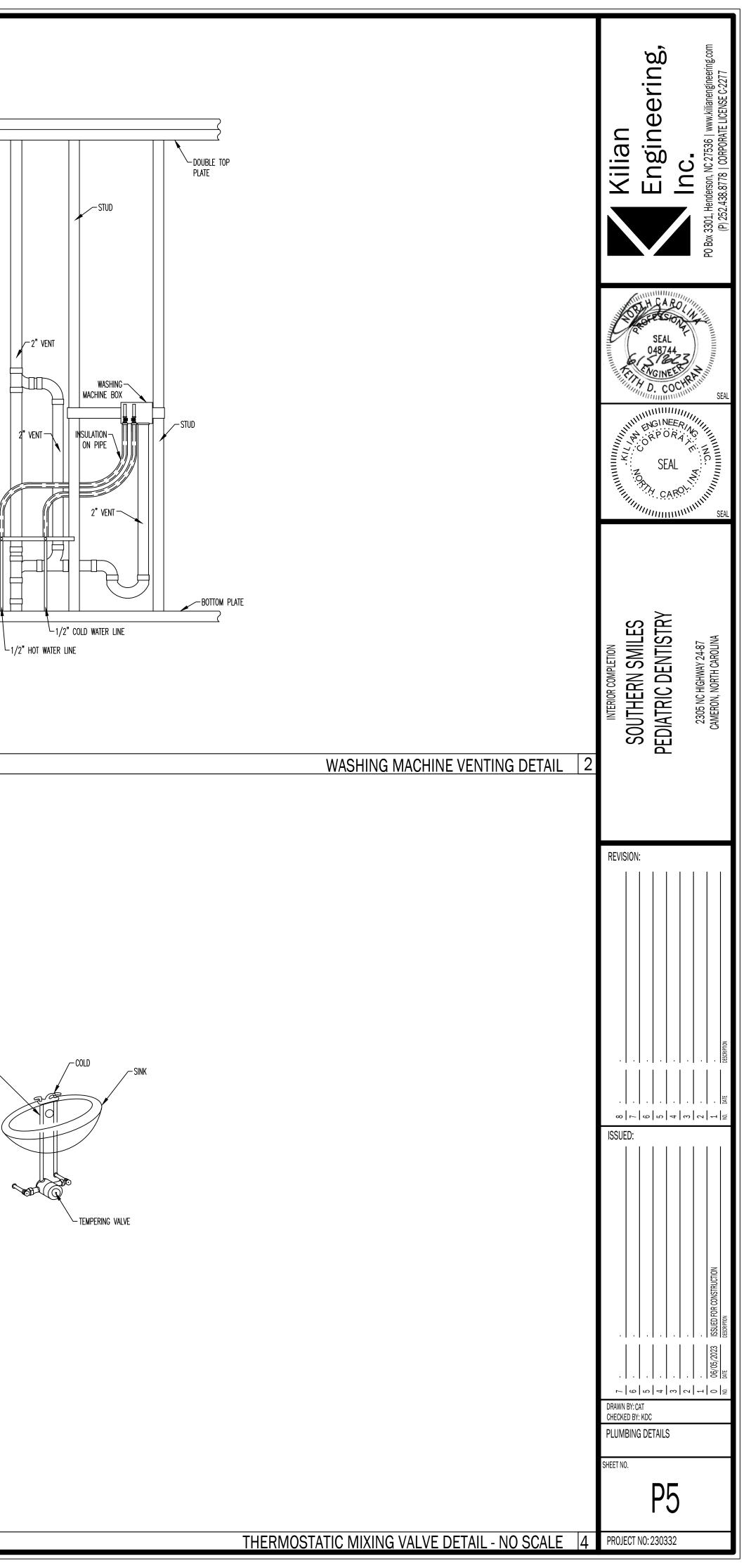




VAC/AIR PLAN - SCALE - 1/4" = 1'-0" 1 PROJECT NO: 230332



RCUL. LOOP ELECTRIC WH DETAIL - NO SCALE 1	
ROPER FOR REZ ASSEMBLY F 2) R SAB ACTINICATION R PZ DETAIL DRAIN TO MOP SINK - NO SCALE 3	



			SPL	_IT SYST	'EM HEAT PUMP	SCHEDULE							
		NOMINAL	REF	LINES	MOT	ORS	EFFIC	IENCIE	S	EL	ECTRICA	L	
MARK	MFG / MODEL #	CAPACITY	GAS	LIQ	COMPRESSOR	cond. Fan	SEER	COP	HSPF	V/PH	MCA	MOCP	WEIGHT
		TONS	UAS		ND.	ND.	EER	17*	I USLI	¥/FN	MUA	MUCF	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

	SPLIT SYSTEM AIR HANDLER SCHEDULE																	
		NOMINAL	AIR	FLOW	Fan Mo	TORS	ŀ	EATING CAPACITY	,	COOLI	ing capa	CITY		ELECTRICAL		WEIGHT	REMARKS	
MARK	MFG / MDDEL #	CAPACITY	SUPPLY	MIN. DA	SUPPLY	ESP	DUTPUT	AUX ELEC H	IEAT	EAT WB/DB TOTAL SENSIBLE		L SENSIBLE	SENSIBLE	LE V/PH	MCA	MECP	WEIGHT	REMARKS
		TENS	CFM	CFM	ND.	in wg	MBH	kW	STAGES	⁺F	MBH	MBH	¥7FN	MCH	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 LOCKOUT TO PREVENT SUPPLEMENTAL HEAT OPERATION IN RESPONSE TO THE THERMOSTAT BEING CHANGED TO A WARMER SETTING. SET NO LOVER 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

	EXHAUST FAN SCHEDULE											
MARK	MFG / MODEL #	TYPE	ESP (in WG)	CFM	VOLT/PH	FLA	SONES	NDTES				
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 HODDED WALL WITH

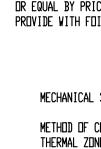
BACKDRAFT DAMPER CAP AS APPLICABLE. PROVIDE WITH SQUARE TO ROUND DUCT ADAPTER AS NECESSARY

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 SENSOR LOCATION. INSTALL NEXT TO THERMOSTAT (CO)



<u>exterior d</u> HEA1 COOLI

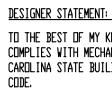
<u>INTERIOR D</u> HEAT COOLI

<u>HEATING LOA</u> SENSIBLE C

<u>Latent COD</u> MECHANICAL



<u>EQUIPMENT E</u> <u>EQUIPMENT S</u>



	ventilatio	n Calculation (SOUTHERN SMILE	J FEDIATRIC D	LIVIISIRI				
Room Name(s)	Zone Type	Area (sq.ft.)	Rp	Ra	Default Occupancy	Pz	Ez	Airflow to Zone (cfm)
WAITING	Main Entry/Lob	by 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? No		Ev:	0.8					
		Actual System Population:	40					
Uncorrected Intake	399 cfm							
Outdoor Air Intake	498 cfm							
Percent of Unit Air	12%							

REMARKS

1, 2, 4, 9,

10, 12-14

	REGISTER & GRILLE SCHEDULE												
MARK	MFG	MODEL #	SIZE	MOUNTING	DESCRIPTION	NDTES							
A HART & CODLEY HVS 24X24 LAY-IN 4-WAY DIFFUSER, BRIGHT WHITE													
B HART & COOLEY HVS 12X24 LAY-IN 4-WAY DIFFUSER, BRIGHT WHITE													
C	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 & CODLEY 94AT 12X24 LAY-IN STEEL, LAY IN, RETURN GRILLE 1													
					P								

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

MECHANICAL SYSTEM, SERVICE SYSTEMS, AND EQUIPMENT

DD DF CDMPLIANCE MAL ZDNE	PRESCRIPTIVE ZUNE 3A
<u>RIDR DESIGN CONDITIONS</u> HEATING DESIGN DRY BULB CDDLING DESIGN DRY BULB CDDLING DESIGN WET BULB	22. 7* F 95. 2* F 75. 4* F
RIDR DESIGN CONDITIONS HEATING DESIGN DRY BULB CODLING DESIGN DRY BULB CODLING RELATIVE HUMIDITY	70° F 75° F 50%
ING LOAD:	56, 358 BTU/H
IBLE COOLING LOAD:	87, 793 BTU/H 15, 756 BTU/H
ANICAL SPACING CONDITIONING SYSTEM: UNITARY DESCRIPTION OF UNIT(S) (2) BOILER TOTAL BOILER DUTPUT CHILLER TOTAL CHILLER CAPACITY	AIR COOLED DX 5t hp split system N/A N/A N/A N/A
PMENT EFFICIENCIES:	SEE SCHEDULES
PMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS):	SEE SCHEDULES

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

ADMINISTRATIVE:

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 FURNISHED BY OTHERS AND GENERAL CONTRACTOR AS SHOWN ON THE PLANS OR SHALL BE TYPE ACR HARD COPPER TUBING WITH SWEAT FITTINGS. REFRIGERATION 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 DIMENSIONS.

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. METHODS: 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 THE OWNER.

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.

MATERIALS:

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 9. 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. 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. 4.3. 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

REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY 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.

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.

8. 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 ASSEMBLY

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.

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

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.

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

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 DFCKING.

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 10.

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.

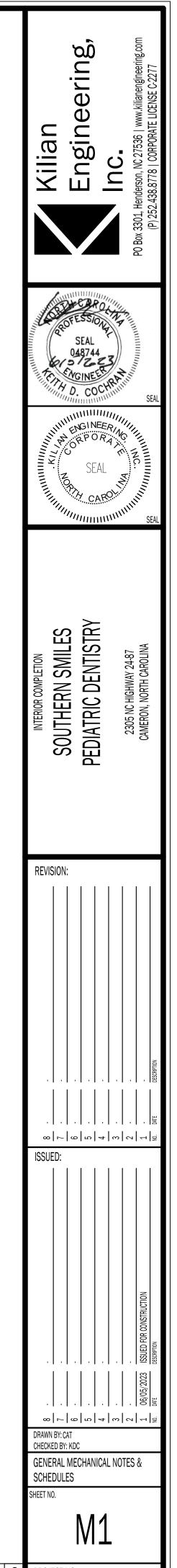
MC SHALL INSTALL PROGRAMMABLE THERMOSTATS AS SHOWN ON THE PLANS. THERMOSTAT SHALL BE MOUNTED AT 48 INCHES AFF. THERMOSTATS SHALL MEET THE REQUIREMENTS OF SECTION C403.2.4 OF THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.

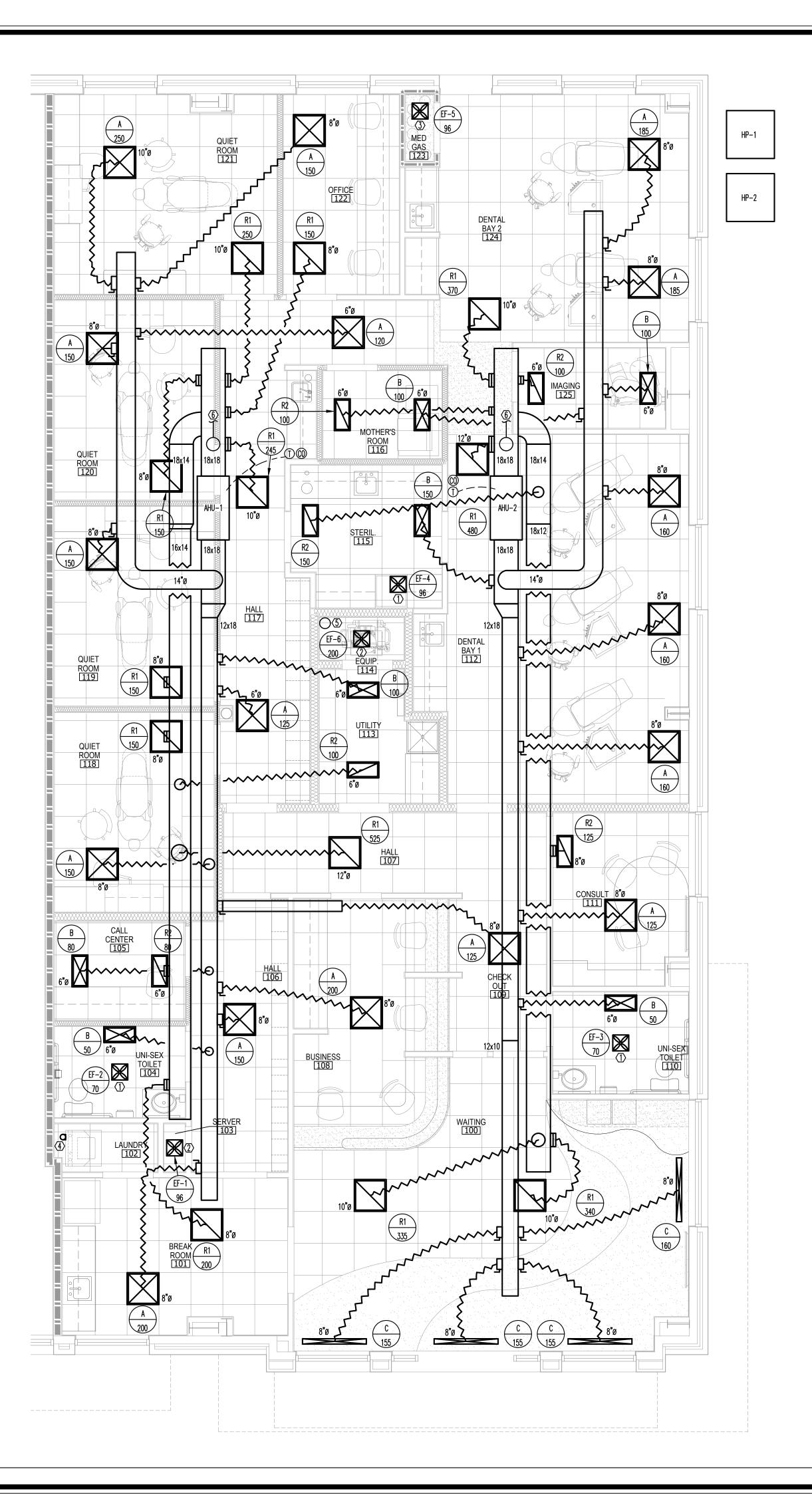
FRESH AIR INTAKES SHALL BE INSTALLED ON ALL UNITS AS SHOWN ON DRAWINGS. MAINTAIN 10 FEET OF DISTANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST TERMINATIONS AND PLUMBING VENT THRU ROOFS.

14. 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 PENETRATE THE THERMAL ENVELOPE PER NORTH CAROLINA ENERGY CONSERVATION CODE C402.5.5





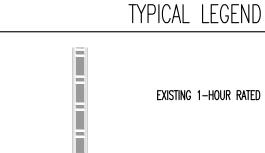
HEX PLAN NOTES

- 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 EXTERIOR.
- 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 FEASIBLE.

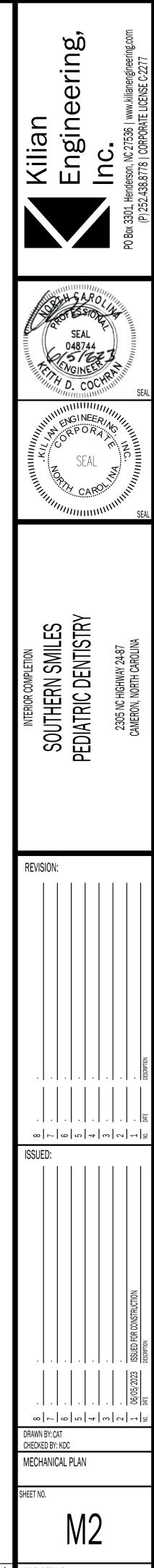
GENERAL PLAN NOTES

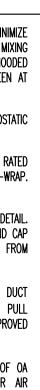
- 1. ROUTE CONDENSATE LINES FOR BOTH AHUS TO EXTERIOR. COORDINATE WITH GC ON CONDENSATION LOCATIONS.
- 2. COORDINATE WITH BUILDING OWNER ON EXTERIOR UNIT MOUNTING LOCATIONS.

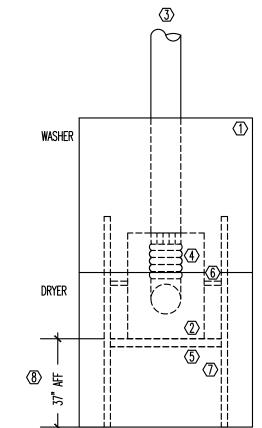
THERMOSTAT LOCATION MOUNT AT 48" A.F.F. \textcircled{CO}_2 CO₂ SENSOR LOCATION. INSTALL NEXT TO THERMOSTAT



EXISTING 1-HOUR RATED FIRE WALL





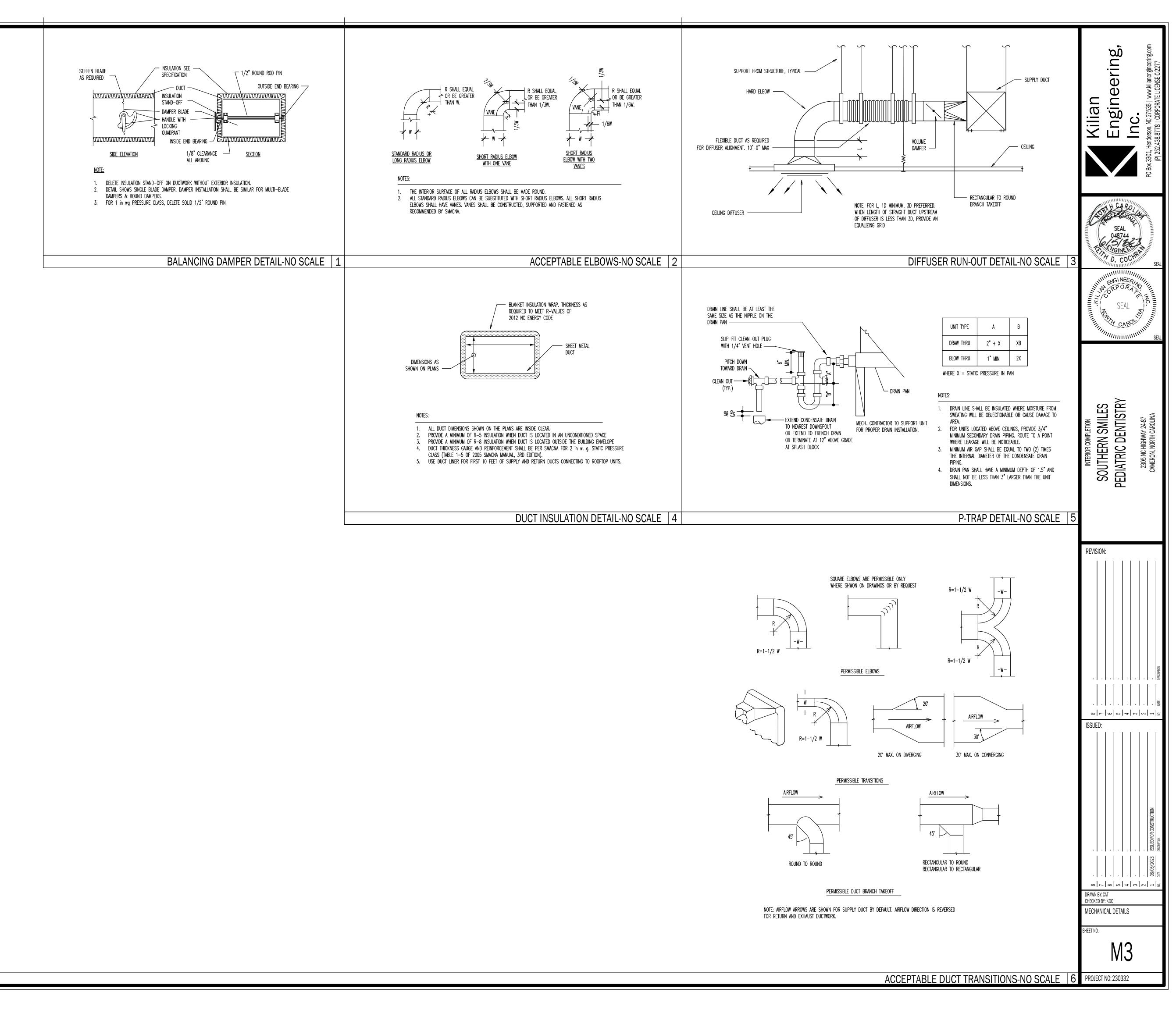


HEX NOTES:

- STACKED WASHER/DRYER RECESSED METAL BOX
- 4" DRYER VENT DUCT TO EXTERIOR (SEE PLANS) Flexible Dryer Duct
- 2X6 BLOCK SUPPORT
- ADJUSTABLE SUPPORT STRAPS 16" STUDS OC
- 8. MOUNT 37" AFF

NOTE: COORDINATE WITH WASHER/DRYER INSTALL MANUAL.

MECHANICAL PLAN - SCALE - 3/16" = 1'-0" 1 PROJECT NO: 230332



			LIGHT FIX	ture sched	ULE					
MARK	DESCRIPTION	LENS	LUMENS	CCT	TYPE	VOLTAGE	INPUT WATTAGE	MOUNTING	REMARKS	MFG
A1	2X4 LED FLAT PANEL	ACRYLIC	4800	3500K	LED	120	31	LAY-IN	1-4	LITHONIA
A2	2X2 LED FLAT PANEL	ACRYLIC	4800	3500K	LED	120	33	LAY-IN	1-4	LITHONIA
B1	4" LED CAN	-	2000	3500K	LED	120	22	RECESSED	1-4	LITHONIA
B2	6' LED CAN	-	2000	3500K	LED	120	25	RECESSED	1-4	LITHONIA
C	SURFACE LIGHT	-	-	3500K	LED	120	30W MAX	SURFACE	1-3	
F	TAPE LIGHT	-	330/FT	3500K	-	120	4W/FT	UNDER BAR	1-4	FLEXNEON
Р	PENDANT	-	-	35000K	LED	120	30W MAX	SUSPENDED	1-4	
S	WALL SCONCE	-	1000	3500K	LED	120	30W MAX	WALL	1-4	
V	VANITY LIGHT	ACRYLIC	2000	3500K	LED	120	40W MAX	WALL	1-4	
Z	2' LED STRIP	DROP DIFFUSER	5000	3500K	LED	120	36	SURFACE	1-4	LITHONIA
EM	DUAL HEAD EMERGENCY FIXTURE	-	-	N/A	LED	0. 62	SURFACE	SURFACE	5, 6	LITHONIA
EX	LED EXIT SIGN W/ BATTERY BACKUP	-	-	N/A	LED	120	1	SURFACE	5, 6	LITHONIA
DE	EXTERIDR DVAL LED EMERGENCY LIGHT	ACRYLIC	-	N/A	LED	120	2. 8	SURFACE	5,6	LITHONIA
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.

4. SPECIFIC FIXTURES MARKED WITH "E" AT THE END INDICATE BATTERY BACK UP FOR PATH OF EGRESS.

5. 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						
\$		HEAVY DUTY, AC DNLY, COMMERCIAL GRADE GENERAL USE SNAP SWITCH COMPLYING WITH NEMA WD 6 AND WD 1. IVDRY PLASTIC BODY WITH TOGGLE HANDLE. 120-277V, 20A. MEET FEDERAL SPECIFICATION W-S-896.						
\$ _D	DIMMER SWITCH	CDMMERCIAL 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.						
	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314.40 DF THE NEC.						
×	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						
Ф	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 DTHERWISE NOTED ON PLANS. VERIFY PLUG TYPE PRIDR 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.						
Φ	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.						
Ž	FUSIBLE DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS, FUSE ACCORDING TO NAMEPLATE DATA.						
\bigcirc	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314.40 DF THE NEC.						

MODEL EPANL-2X4-4000LM-80CRI-35K-EZT-MV0LT EPANL-2X2-4000LM-80CRI-35K-EZT-MVDLT LDN4 35 / 20 MVOLT GZ10 HSG (PS10SSCP FMC) LDN6 35 / 20 MVOLT GZ10 HSG (PS10SSCP FMC) \$200 FIXTURE ALLOWANCE LRDUR8 \$200 FIXTURE ALLOWANCE \$200 FIXTURE ALLOWANCE \$200 FIXTURE ALLOWANCE ZL1D EU2C-SD LQM-S-W-1-R-120/277-EL-N-SD AFD-DB-MVOLT-N-SD

NC)TES	FO	r em	ER(GENCY	FIXTU	RES
1.	FOR I	NTERIOR	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 DESIGNER'S STATEMENT							
<u>ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE</u> PRESCRIPTIVE _X_ PERFORMANCE ENERGY COST BUDGET							
LIGHTING SCHEDULE	I						
LAMP TYPE REQUIRE	D IN FIXTURE:		SEE LIGHTING LEGEND				
NUMBER OF LAMPS P	ER FIXTURE:		SEE LIGHTING LEGEND				
BALLAST TYPE USED	IN FIXTURE:		SEE LIGHTING LEGEND				
NUMBER OF BALLAST	S IN FIXTURE:		SEE LIGHTING LEGEND				
TOTAL WATTAGE PER	FIXTURE:		SEE LIGHTING LEGEND				
TOTAL INTERIOR WA	TTAGE SPECIFIED VS	WATTS SPECIFIED	WATTS ALLOWED				
ALLOVED:		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 SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS) MOTOR HORSEPOWER: N/A NUMBER OF PHASES: N/A MINIMUM EFFICIENCY: N/A MOTOR TYPE: N/A NUMBER OF POLES: N/A DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS							
BUILDING COMPLIES	WITH THE 2018 NORTH	Carulina Energy CONSE	.RVATTUN CUDE.				
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:

- ADMINISTRATIVE: 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
- DIMENSIONS. 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 FOUIPMENT.
- 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 CONSTRUCTION.
- 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.
- 13. 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.

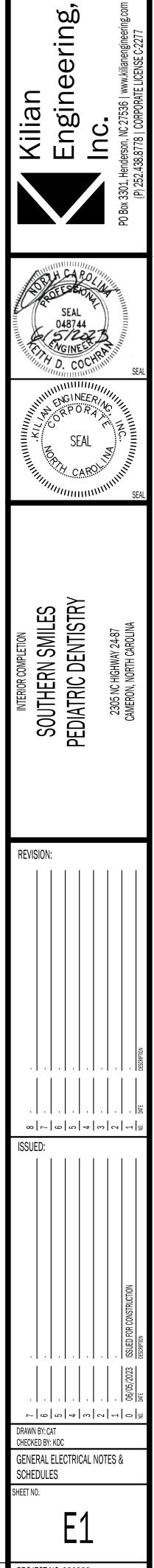
- 9. ALL LUMINAIRES SHALL BE LISTED. LUMINAIRES IN WET OR DAMP LOCATIONS SHALL BE MARKED AS SUITABLE FOR THE RESPECTIVE USE. EMERGENCY LIGHTING SHALL BE INSTALLED AS SHOWN. FINAL LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION. ALL FLUORESCENT 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
- PFRMITTFD 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.

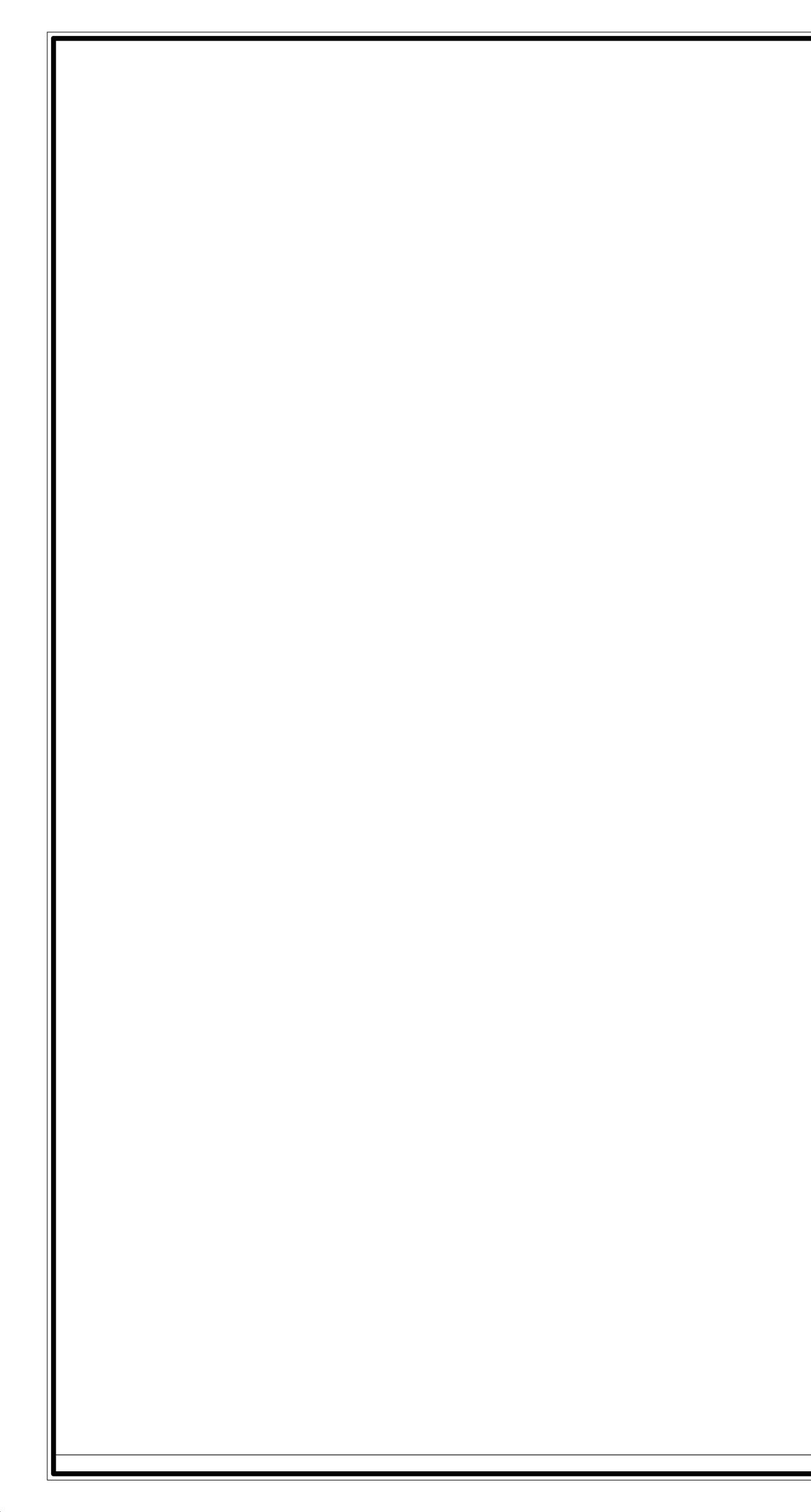
1. EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED IN THE CONTRACT.

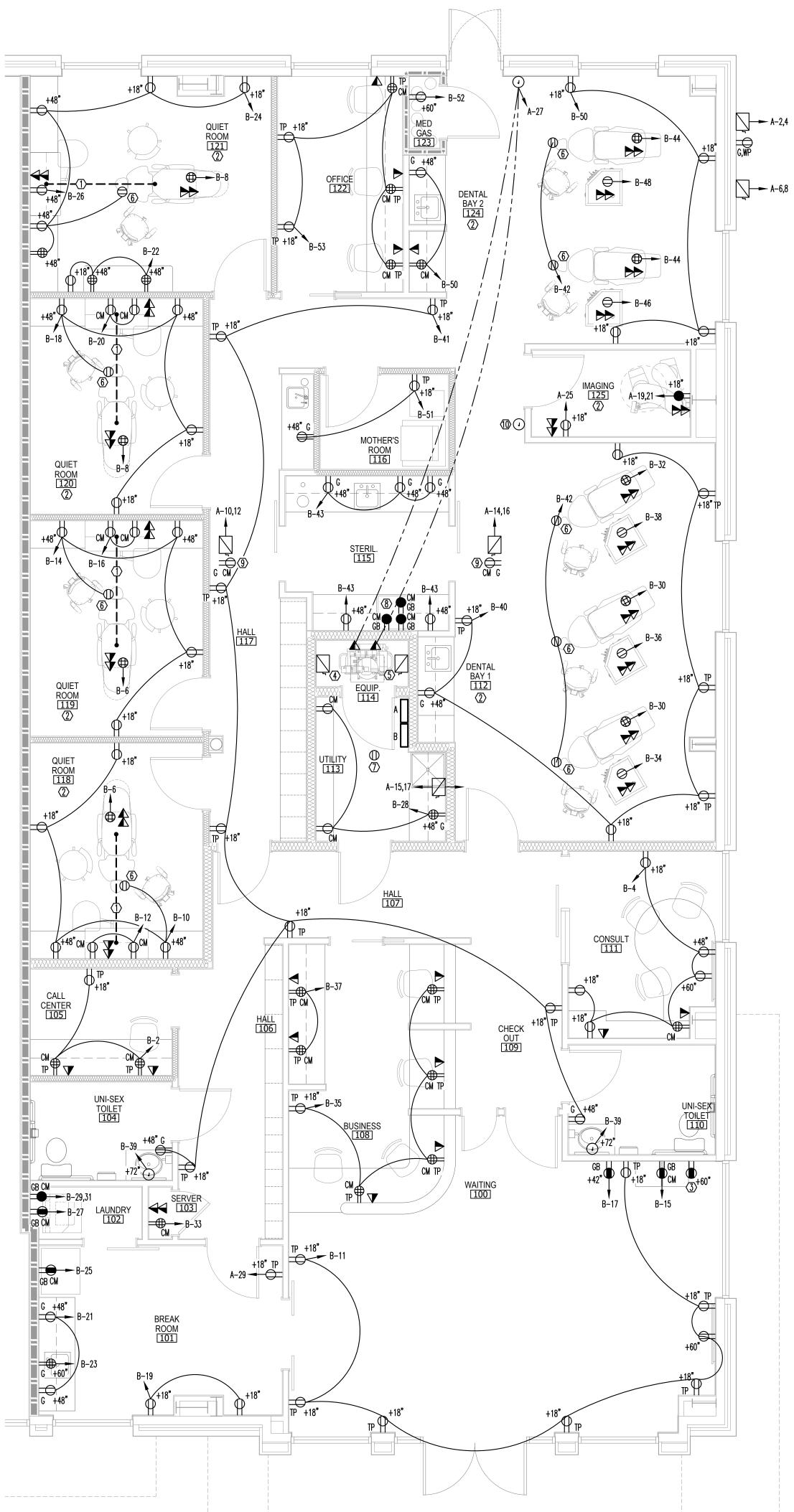
- 2. ALL CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR BREAKERS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4 in CONDUIT. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SOURCE PER NEC 210.4(B). GROUP 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 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 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
- 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 NEC 310.4. 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
- 800 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.
- 19. 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 NEC.







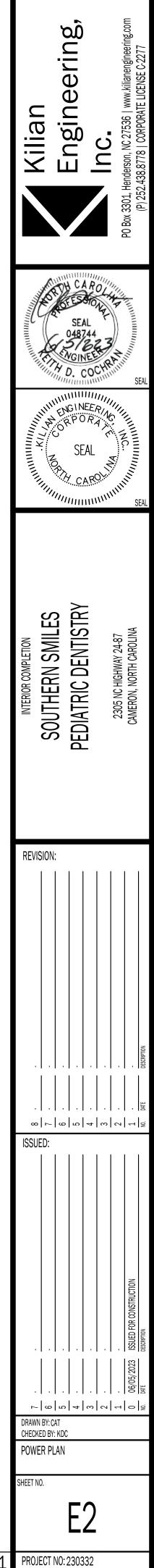
	> POWER PLAN HEX NOTES
1.	TYPICAL TREATMENT ROOM. PROVIDE 2" PVC CONDUIT PATHWAY WITH PULL-STRING FROM DENTAL CABINET TO DENTAL CHAIR. COORDINATE SIZE AND ROUTING WITH DENTAL SUPPLIER AND GC.
2.	<u>General Patient care area</u> wired to all NEC 517.13 Requirements.
3.	JUNCTION BOX FOR SIGN CIRCUIT. PROVIDE POWER FOR SIGN CIRCUIT AND WIRE TO TENANT PANEL. COORDINATE EXACT SIGN REQUIREMENTS AND SCOPE OF WORK WITH OWNER. CIRCUIT $B-13$.
4.	208V, SINGLE PHASE, 30A DISCONNECT FOR VACUUM PUMP. CONFIRM ELECTRICAL REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER. CIRCUIT A-7,9.
5.	208V, SINGLE PHASE, 30A DISCONNECT FOR AIR COMPRESSOR CONFIRM ELECTRICAL REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER. CIRCUIT A-11,13.
6.	RECEPTACLE AT CEILING FOR CEILING MOUNTED TV.
7.	POWER AT CEILING FOR RECIRC PUMP. CIRCUIT A-23. COORDINATE LOCATION WITH PC.
8.	STERILIZATION CIRCUITS FOR SPECIAL EQUIPMENT. CONFIRM REQUIREMENTS WITH EQUIPMENT SUPPLIER.
8.2	STATIM = $A-45$ AUTOCLAVE = $B-47$ AUTOCLAVE = $B-49$
9.	SERVICE RECEPTACLE FOR EQUIPMENT. CIRCUIT B-54
10.	EXPOSURE SWITCH FOR X-RAY.

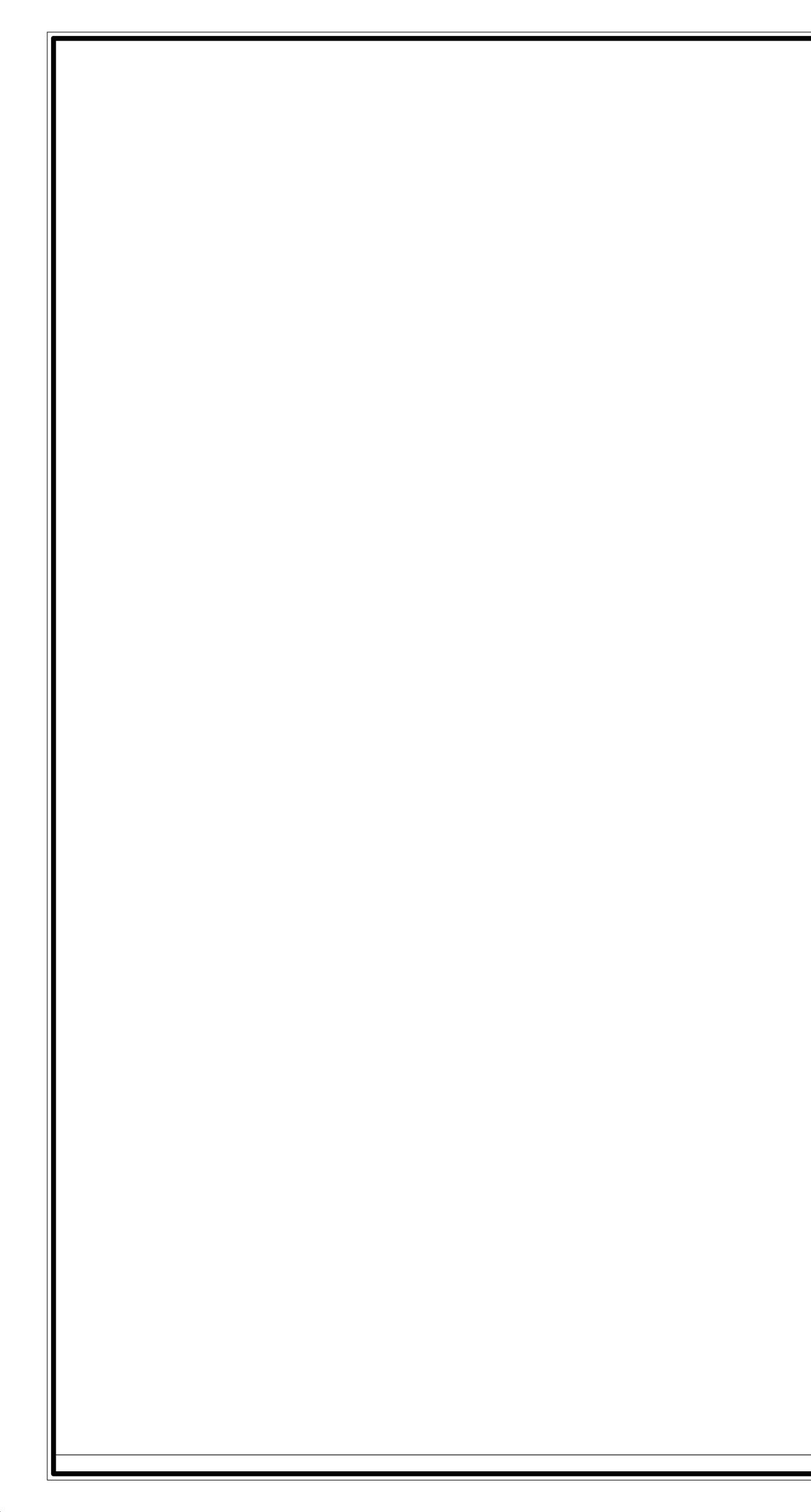
GENERAL POWER PLAN NOTES

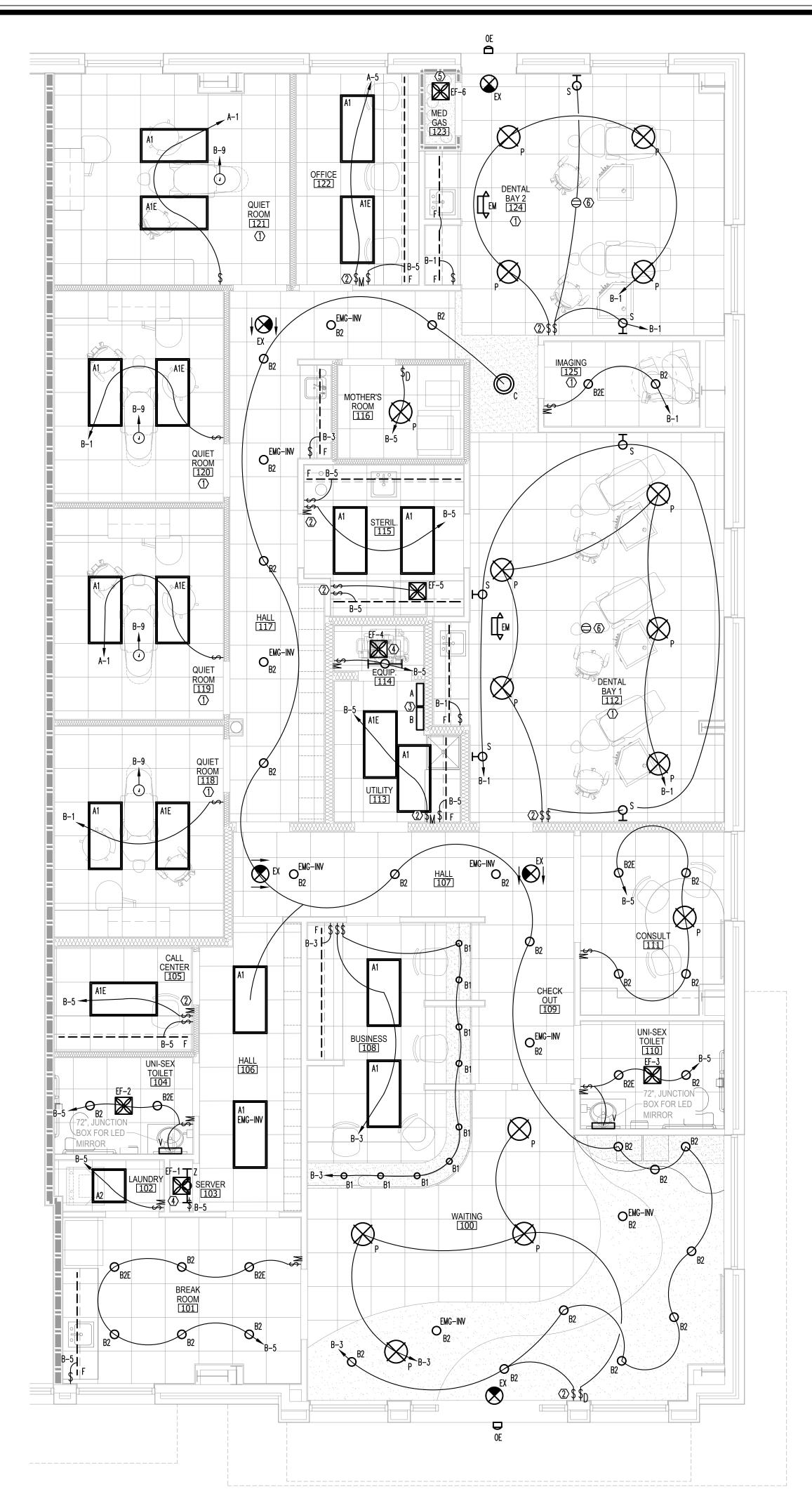
1. PROVIDE CIRCUIT LABELS ON ALL RECEPTACLE COVER PLATES.

$ \bigoplus_{\mathbf{x},\dots}^{\mathbf{+Y}} $	<u>X- RECEPT</u> G- GB- M- A- AB- CH- GF- TP-	ACLE NOTE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.8 GFCI BREAKER FOR MAINTENANCE APPLIANCES: WATER FOUNTAINS, REFRIGERATORS, RESIDENTIAL DISHWASHERS, OR BY MFG WET LISTED: EXTERIOR, WASH-BAYS AFCI PROTECTED AFCI BREAKER COUNTER HEIGHT GFPE BREAKER TAMPER PROOF RECEPTACLE
	<u>Y- mounti</u> 6" ac- 42"- CM-	<u>NG NOTE</u> MOUNT AT 6" ABOVE COUNTER—TOP MOUNT AT 42" ABOVE FINISHED FLOOR CONFIRM MOUNTING HEIGHT PRIOR TO INSTALL
₽ ^{+80'} _{G,₩}	, <u>Example</u> G- W- 80"-	GFCI PROTECTED WET LISTED MOUNT AT 80" ABOVE FINISHED FLOOR

TYPICAL LEGEND EXISTING 1-HOUR RATED FIRE WALL







♦ LIGHTING PLAN HEX NOTES

- 1. <u>GENERAL PATIENT CARE AREA</u> WIRED TO ALL NEC 517.13 REQUIREMENTS.
- 2. DOUBLE GANG BOX FOR SWITCHES.
- 3. TIME CLOCK FOR LIGHTING CONTACTOR FOR ALL CORRIDORS, WAITING, TREATMENT BAY. CONFIRM LOCATION WITH OWNER.
- 4. FAN CONTROLLED THERMOSTATICALLY.
- 5. CONTINUOUS OPERATION FAN.
- 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

	PO Box 3301, Henderson, NC 27536 www.kilianengineering.com (P) 252.438.8778 CORPORATE LICENSE C-2277
	SEAL 0487.44 0487.44 0487.44 0. COCHRMINING SEAL 0487.44 0. COCHRMINING SEAL 0487.44 0. COCHRMINING SEAL NOR PORY SEAL NOR PORY SEAL NOR PORY SEAL
	INTERIOR COMPLETION SOUTHERN SMILES PEDIATRIC DENTISTRY 2305 NC HIGHWAY 24-87 CAMERON, NORTH CAROLINA
	REVISION: 8 9 1
	ISSUED: 1 - 2 - 3 - 2 - 3 - 1 - 2 - 3 - 1 - 1 - 2 - 2 - 3 - 1
LIGHTING PLAN - SCALE - 3/16" - 1'-0" 1	CHECKED BY: KDC LIGHTING PLAN SHEET NO. BROJECT NO: 230332

			PAN	EL A (P	112)			
СКТ	LOAD	BKR	LOAD	PH	LOAD	BKR	LDAD	СК
UNI	LUHU	DKK	kVA	111	kVA	DKK	LUHU	
1			14. 10	Α	3, 54	60/2	HP-1	2
3	PANEL A	200/3	12. 20	B	3. 54	00/2	11 1	4
5			18. 10	C	3. 54	60/2	HP-2	6
\bigcirc	VAC-1	30/2	2. 08	Α	3. 54	00/2		8
9			2. 08	B	4. 58	45/2	AHU-1	10
	COMP-1	30/2	2. 08	С	4. 58			12
13			2. 08	Α	4. 58	45/2	AHU-2	14
15	WH-1	30/2	2, 25	B	4. 58			16
17			2, 25	C	0, 00		SPACE	18
0	IMAGING UNIT	20/2	1.60	A	0,00		SPACE	20
2			1.60	B	0, 00		SPACE	22
23	RECIRC PUMP	20/1	0. 25	C	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	B	0, 00		SPACE	28
29	CHARGING STATION	20/1	0. 18	C	0, 00		SPACE	30
31	SPACE		0, 00	Α	0, 00		SPACE	32
33	SPACE		0.00	B	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	B	0, 00		SPACE	40
41	SPACE		0, 00	C	0, 00		SPACE	42
			kVA	PH	AMPS			
			31.7	A	264			
			31.1	B	259			
			31. 0	C	258			
		VOLTAG	e/phase		208Y/1	20V, 3P, 4	IW	
		BUS	RATING		400A			
MAIN CIRCUIT BREAKER RATING AIC RATING					MLD			
					22K			
	SERVICE	ENTRANC	E RATED		ND			
		ENG	CLOSURE		NEMA 1			
		M	JUNTING		SURFAC	E		

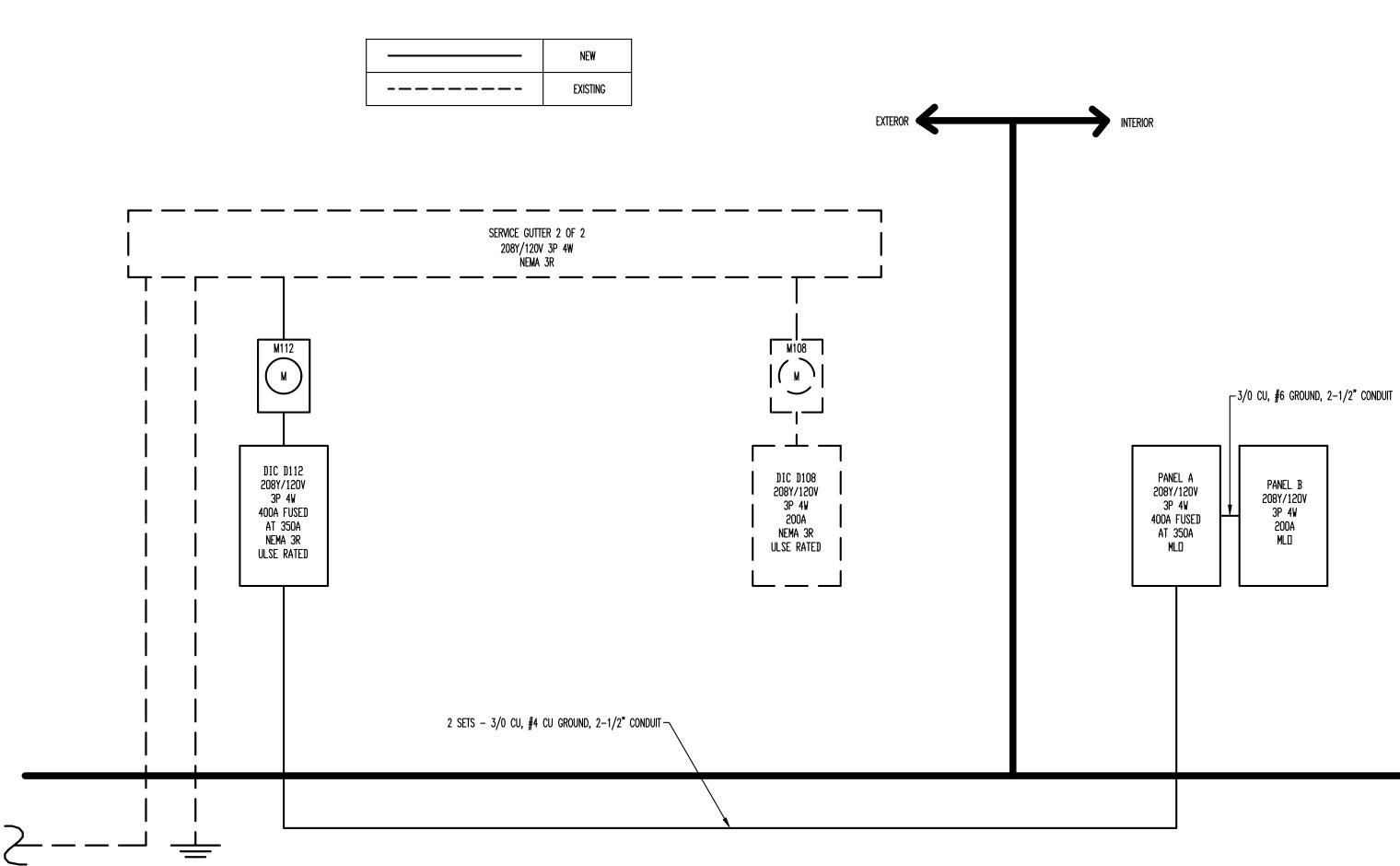
COORDINATE EQUIPMENT BOOST TRANSFORMER NECESSITY WITH EQUIPMENT SUPPLIER.

			Pan	EL B (P	112)				
скт	מאח	BKR	LOAD	PH	LOAD	BKR	LOAD	СКТ	
			kVA		kVA		עחט	CKI	
1	PATIENT CARE AREA LTS	20/1	1. 27	Α	0, 90	20/1	CALL CENTER RECEPTACLES	2	
3	ENTRY + CORRIDOR LTS	20/1	1. 65	B	1. 26	20/1	CONSULT RECEPTACLES	4	
5	DFFICE + STDRAGE LTS	20/1	1. 41	C	0. 72	20/1	QUIET ROOM 118 + 119 CHAIRS	6	
7	EF-4, 5, 6	20/1	0. 36	Α	0. 72	20/1	QUIET ROOM 120 + 121 CHAIRS	8	
9	OVERHEAD DENTAL LIGHTS	20/1	1. 44	B	0. 9	20/1	QUIET ROOM 118 RECEPTACLES	10	
11	WAITING GENERAL RECEPTACLES	20/1	1. 44	C	0. 36	20/1	QUIET ROOM 118 REAR CABINET	12	
13	INTERIOR SIGN	20/1	1. 20	Α	0. 90	20/1	QUIET ROOM 119 RECEPTACLES	14	
15	DRINKING FOUNTAIN W/BOTTLE FILLER	20/1	0. 50	B	0, 36	20/1	QUIET ROOM 119 REAR CABINET	16	
17	BELOW COUNTER REFRIGERATOR	20/1	0. 50	C	0. 90	20/1	QUIET ROOM 120 RECEPTACLES	18	
19	BREAK ROOM GENERAL RECEPTACLES	20/1	0. 36	Α	0. 36	20/1	QUIET ROOM 120 REAR CABINET	20	
21	BREAK ROOM COUNTER RECEPTACLES	20/1	0. 36	B	0, 90	20/1	QUIET ROOM 121 QUAD CABINET	22	
23	BREAK ROOM QUAD RECEPTACLE	20/1	0. 36	С	1. 62	20/1	QUIET ROOM 121 RECEPTACLES	24	
25	BREAK ROOM REFRIGERATOR	20/1	0. 50	A	0. 18	20/1	QUIET ROOM 121 REAR CABINET	26	
27	LAUNDRY - WASHER	20/1	0. 18	B	0. 72	20/1	UTILITY RECEPTALCES	28	
29>			2.60	С	0. 72	20/1	DENTAL BAY 1 - CHAIR 1 + 2	30	
31	Laundry – Dryer	30/2	2. 60	Α	0. 36	20/1	DENTAL BAY 1 - CHAIR 3	32	
33	SERVER	20/1	0. 36	B	0. 18	20/1	DENTAL BAY 1 - CART 1	34	
35	BUSINESS RECEPTACLES	20/1	1. 62	С	0. 18	20/1	Dental Bay 1 – Cart 2	36	
37	BUSINESS BACK COUNTER RECEPTACLES	20/1	0. 72	Α	0. 18	20/1	DENTAL BAY 1 - CART 3	38	
39	TLT - LED MIRRORS	20/1	0. 36	B	1. 26	20/1	DENTAL BAY 1 RECEPTACLES	40	
41	HALL + TLT RECEPTACLES	20/1	1. 62	С	0. 90	20/1	DENTAL BAY 1 + 2 TVs	42	
43	STERIL RECEPTACLES	20/1	0. 90	A	0. 72	20/1	DENTAL BAY 2 CHAIR 1 + 2	44	
45	STATIM	20/1	1.00	B	0. 18	20/1	DENTAL BAY 2 - CART 1	46	
47	AUTOCLAVE	20/1	1.00	С	0. 18	20/1	Dental Bay 2 - Cart 2	48	
49	AUTOCLAVE	20/1	1.00	Α	1. 26	20/1	DENTAL BAY 2 RECEPTACLES	50	
51	Mother's room receptcle	20/1	0. 36	B	0. 18	20/1	MED GAS RECEPTACLE	52	
53	DFFICE RECEPTACLES	20/1	1. 44	С	0. 54	20/1	SVC RECEPTACLES	54	
			kVA	PH	AMPS				
			14. 5	Α	121				
			12. 2	B	101				
			18. 1	C	151				
			E/PHASE			20V, 3P, ·	4₩		
BUS RATING					200A				
MAIN CIRCUIT BREAKER RATING					MLD				
AIC RATING SERVICE ENTRANCE RATED					22K				
	SENTICE I				NEMA 1				
			JUNTING		SURFAC				
L					1				

	AMPS	
	20A	
	25A	
	30A	
	40A	
	50A	
	100A	
	200A	
	350A	
	400A	
-	1 conductor Circuit. Neut	

NEC ELECTRIC DEMAND SUMMARY 208Y/120V, 3P, 4W							
EQUIPMENT	DEMAND		kVA		LDAD kva	NEC	NDTES/CALCULATIONS
	Factor	A	В	C		REFERENCE	NUTES/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			

INDICATES GFCI BREAKER WIRED THROUGH TIME CLOCK

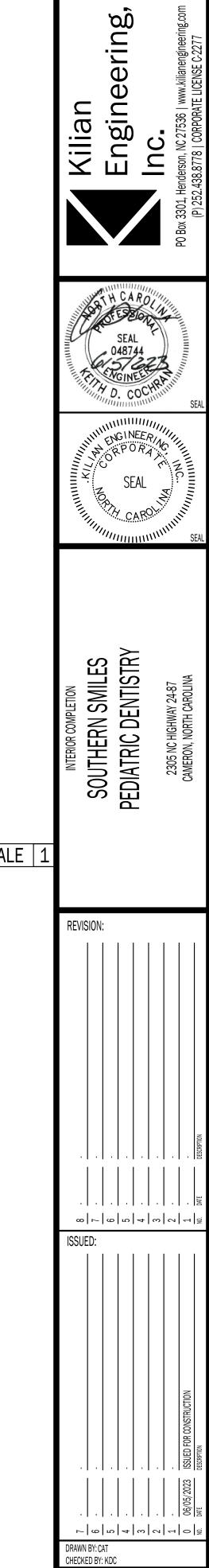


	BREAKER FE	EDER SCHEDULE	В
22	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
A	#12	#12	1/2″
A	#10	#10	3/4"
A	#10	#10	3/4'
A	#8	#10	11
A	#8	#10	11
DA	#3	#8	1 1/2″
DA	3/0	#6	2 1/2 '
DA	500 MCM	#3	4'
DA	2 SETS - 3/0	#3	2 1/2 ′

UCTOR PER POLE PLUS NEUTRAL PER SET. E.C. TO VERIFY NECESSITY OF NEUTRAL FOR EACH NEUTRAL MAY BE DELETED IF NOT REQUIRED FOR INDIVIDUAL PIECES.

THE CALCULATED LIGHTING LOAD EXCEEDS THE CONNECTED LIGHTING LOAD.

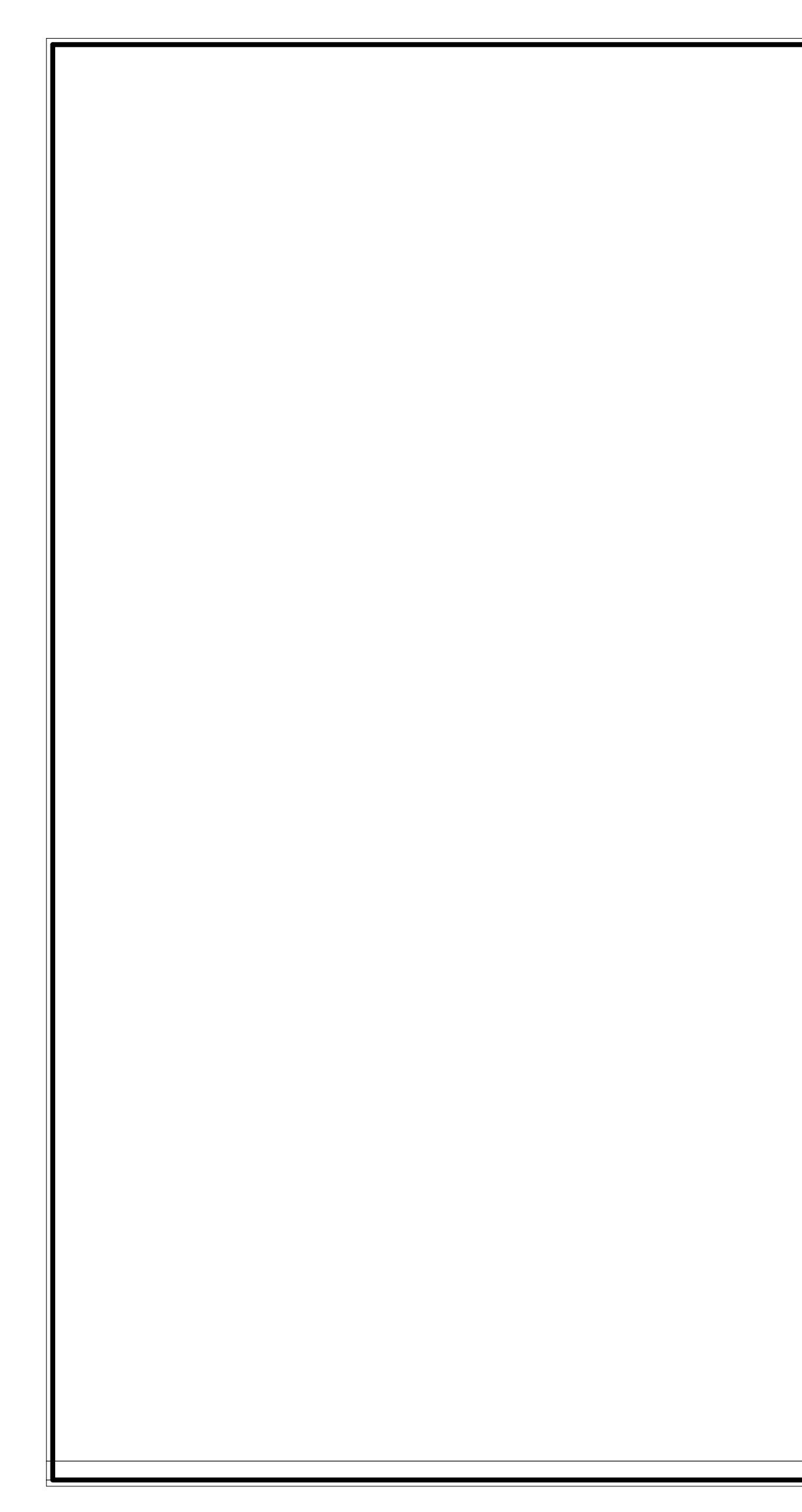
PANEL SCHEDULES - NOT TO SCALE

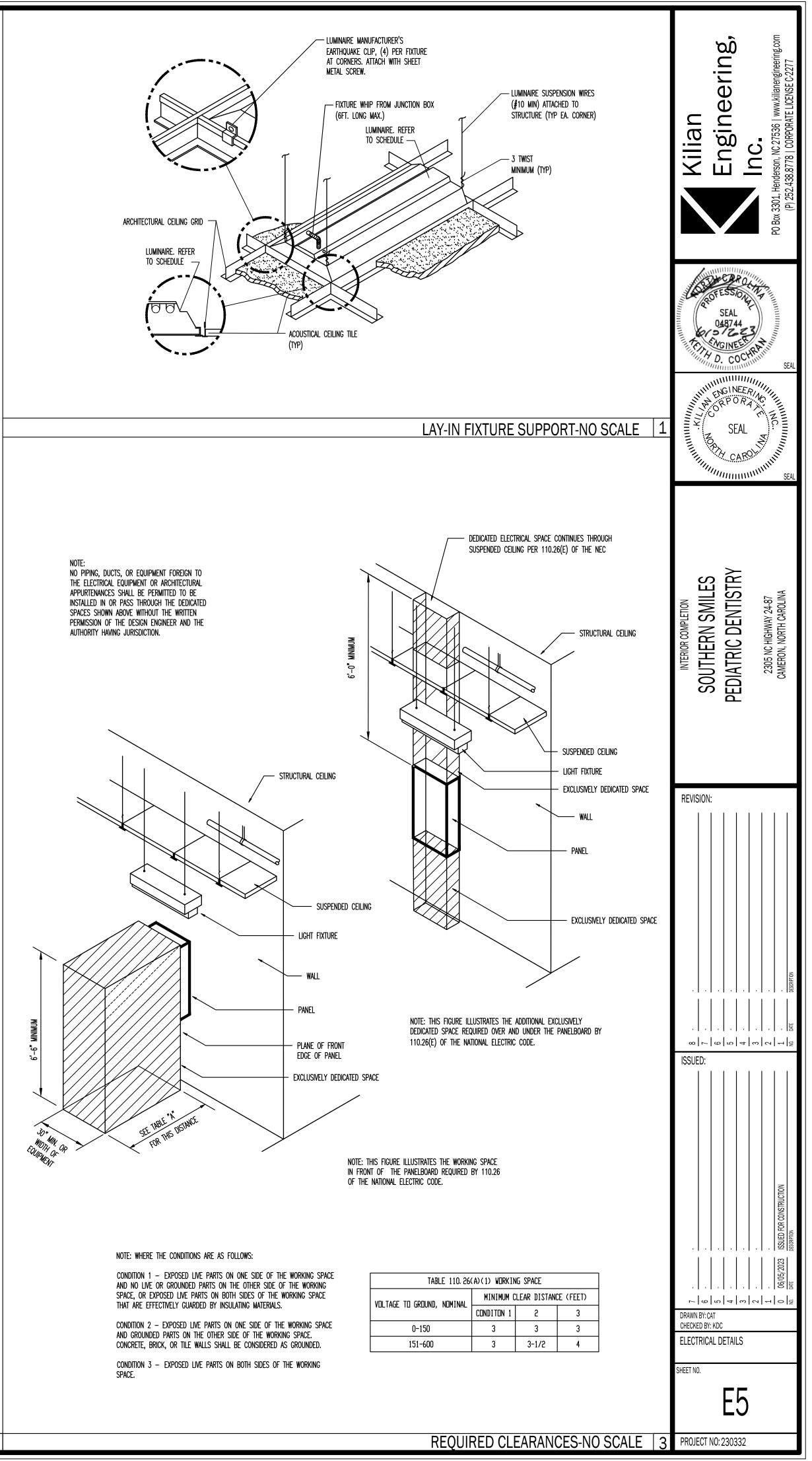


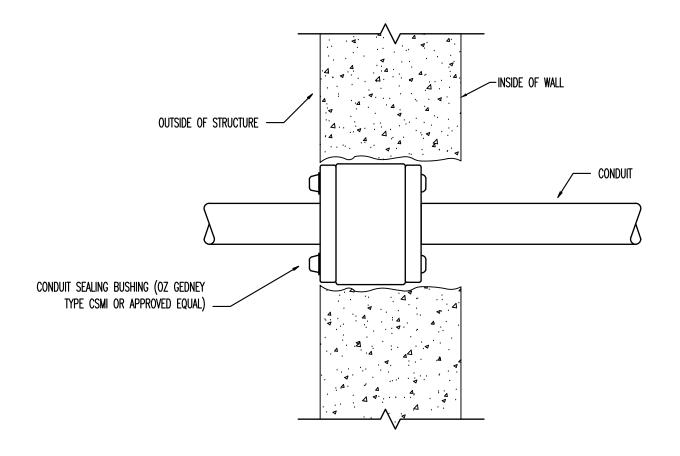
ELECTRICAL RISERS & SCHEDULES

E4

SHEET NO.







	Sheet List
Sheet Number	Sheet Name
DA001	GENERAL NOTES
DA111	LVL 1 FLOOR PLAN
DA113	LVL 1 BACKING PLAN
DB110	LVL 1 DENTAL UTILITIES IN FLOOR
DE110	LVL 1 ELECTRICAL & LOW VOLTAGE
DP110	LVL 1 PLUMBING
DP111	LVL 1 MEDGAS PLAN
DX110	DETAILS
DX111	MEDGAS DETAILS

ABBREVIATION LEGEND

- AFF ABOVE FINISHED FLOOR
- DR SUPPLIED BY DOCTOR
- ELECTRICAL CONTRACTOR EC ER EXISTING RELOCATED
- ΕX EXISTING
- FT FUTURE
- 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.
- 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 3. TO THE CONTRACTOR AND/OR ARCHITECT WITH PROPER ADVANCE NOTICE.
- 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.
- 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.
- THE CONTRACTOR AND SUB-CONTRACTORS ARE TO PROVIDE FINAL HOOK UP TO ALL DENTAL EQUIPMENT AS SET FORTH THE INSTALLATION GUIDELINES.

BUILDING CONTRACTOR:

- 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.
- 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.
- 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.
- A COMPLETE SET OF DRAWINGS MUST BE KEPT AT THE JOB SITE AT ALL TIMES AND 4 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
- THE CONTRACTOR SHALL REMOVE DEBRIS AND MAINTAIN THE PREMISES BROOM 6 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.
- THE CONTRACTOR SHALL PARTICIPATE AT ALL JOB COORDINATION MEETINGS WITH PATTERSON DENTAL AND ENSURE THE ATTENDANCE OF APPLICABLE TRADES.
- 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:

- THE PROCESS.
- NOTIFICATION.
- 3.
- TIMES.
- 5. UNLESS PREDETERMINED TO BE OTHERWISE
- 6. PROVIDE THAT SERVICE.
- ENGINEERED DRAWINGS, IF SUPPLIED.
- 8 CONSTRUCTION PROJECT
- SPECIFIED
- ROUGHING IN IS COMPLETED.
- AND/OR CONTRACTED BY PATTERSON DENTAL).
- SYSTEMS BEFORE WALLS ARE CLOSED. PATTERSON DENTAL SHALL NOT BE HELD RESPONSIBLE FOR MULTIMEDIA
- SYSTEMS OR ANY ITEMS NOT SHOWN ON THESE PLANS. STARTING DEMOLITION
- INSPECTION OF INSTALLATION.

THE ITEMS LISTED HERE IN THE GENERAL NOTES ARE INTENDED TO CLARIFY OVERALL GENERAL CONDITIONS FOR A SMOOTH TRANSITION BETWEEN ALL SUB-CONTRACTORS, 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

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

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

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

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

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

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

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

ALL PLUMBING AND ELECTRICAL LINES TO BE CONCEALED UNLESS OTHERWISE

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

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. THE DOCTOR/OWNER SHALL DESIGNATE RESPONSIBILITY FOR PROVIDING AND INSTALLING CABINETS AND COUNTERTOPS (OTHER THAN THOSE SPECIFIED

14. THE DOCTOR SHALL MAKE ARRANGEMENTS FOR INSTALLATION OF NON-DENTAL

SYSTEMS SUCH AS ENTERTAINMENT TVS, MONITORS, NETWORK COMPUTER GC MUST CONFIRM ALL MEASUREMENTS OF SPACE CONDITIONS PRIOR TO

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

18. GC IS RESPONSIBLE FOR CONFIRMING ALL UTILITIES FOR EXISTING EQ BEING MOVED FROM EXISTING LOCATION OR EQUIPMENT NOT SUPPLIED BY PATTERSON 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

PATTERSON DENTAL 1031 MENDOTA HEIGHTS ROAD 5 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 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, PERTAINNG TO THE CONSTRUCTION OF THIS PROJECT.

HE INFORMATION CONTAINED IN THESE DRAWINGS IS FO CONCEPT PURPOSES ONLY. THESE DRAWINGS ARE NO FO BE USED FOR CONSTRUCTION AND DO NOT TAKE TH PLACE OF CONSTRUCTION PLANS AND SPECIFICATIONS THESE DRAWINGS ARE NOT TO SCALE; NOR HAVE FIELD CONDITIONS BEEN VERIFIED. PATTERSON WILL NOT BI HELD RESPONSIBLE FOR THE USE OR MISUSE OF THE INFORMATION CONTAINED IN THESE DRAWINGS

OWNER:

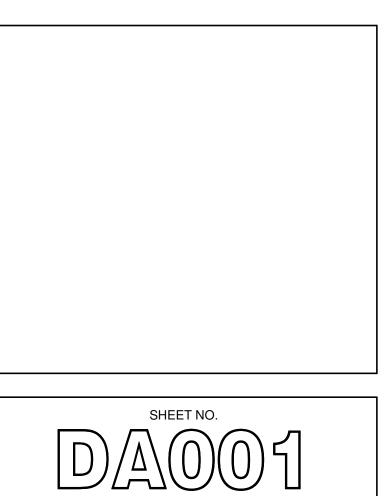
Southern Smiles **Pediatric Dentistry**

LOCATION:

1512 NC 24-87

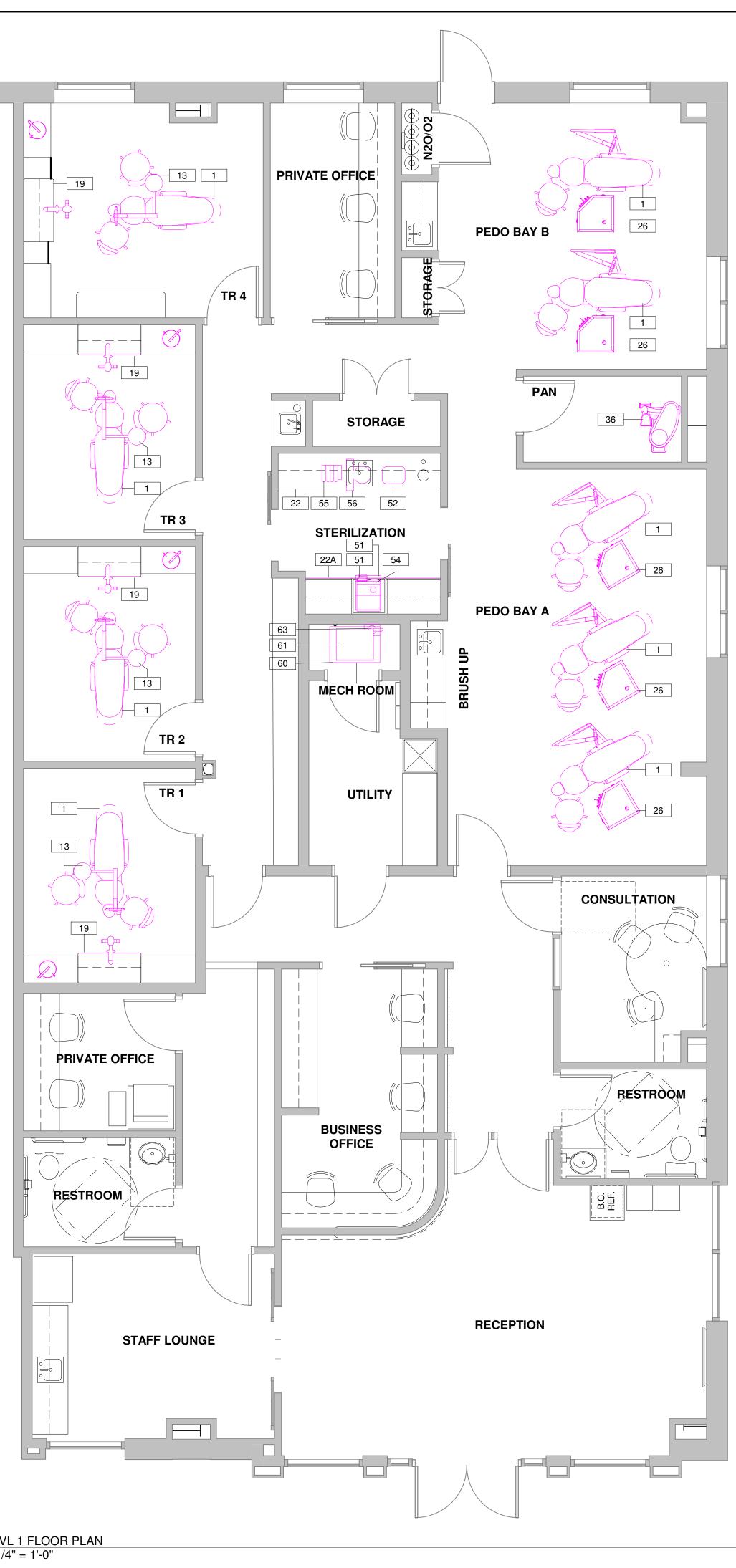
Cameron, NC. 28326

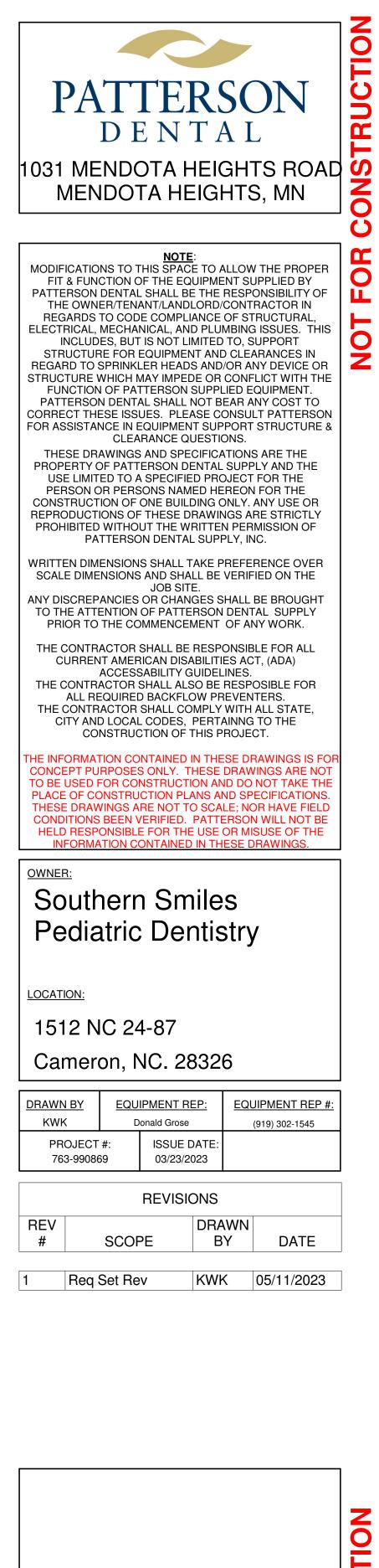
DRAWN	I BY	EQU	IPMENT RI	<u>=P:</u>	EQI	JIPMENT REP #:
KWF	K	D	onald Grose			(919) 302-1545
	OJECT 3-99086		ISSUE DATE: 03/23/2023			
REVISIONS						
REV #	SCOPE			DRA B		DATE
1	Req Set Rev			KWł	<	05/11/2023



	EQUIPMENT SCHEDULE							
				EQUIPMENT INFO				
QTY	ITEM #	DESCRIPTION	STATUS	MANUFACTURER	MODEL	SUPPLIED BY	INSTALLED BY	EQUIPMENT REMARKS
	ч 60	AIR COMPRESSOR	NW	RAMVAC	AERAS 6	PD	PD	
1	60 61	VACUUM	NW	RAMVAC	AERAS 6 AERAS 7	PD PD	PD PD	
1	63	AMALGAM SEPARATOR	NW	SOLMETEX	HG5	PD	PC	
PAN	03	AMALGAMISLFARATOR		SOLIVILILA	1105	FD	FU	
1	36	PANORAMIC X-RAY	NW	PLANMECA	PROONE DIGITAL	PD	PD	
PEDC						10	10	
5	1	DENTAL CHAIR	NW	BOYD	M3000LC	PD	PD	PROVIDE UMBILICAL CONNECTION TO CART FOR ALL UTILITIES
5	26	PEDO CART	NW	BOYD	VFY	PD	PD	PROVIDE UMBILICAL CONNECTION TO CART FOR ALL UTILITIES
STEF	ILIZATION	J			I			
1	22	STERILIZATION CABINET CONTAMINATED	NW	MCC	MC8000	PD	PD	
1	22A	STERILIZATION CABINET CLEAN	NW	MCC	MC8000	PD	PD	
2	51	STERILIZER	NW	MIDMARK	M11-020	PD	PD	
1	52	ULTRASONIC CLEANER	NW	MIDMARK	QUICKCLEAN	PD	PD	
1	54	STATIM	NW	SCICAN	STATIM G4	PD	PD	
1	55	HANDPIECE MAINTENANCE	NW	KAVO	QUATTROCARE	PD	PD	
1	56	WATER TREATMENT	NW	VISTA	PURE	PD	PD	
	TMENT							
4	1	DENTAL CHAIR	NW	BOYD	M3000LC	PD	PD	
4	13	DENTAL CEILING LIGHT (LED)	NW	A-DEC	A-DEC LIGHT CEILING MOUNT	PD	PD	
4	19	REAR CABINET	NW	MCC	CUSTOM	PD	PD	

	PLAN LEGEND			WALL LEGEND
	DENTAL FURNITURE & EQUIPMENT			EXISTING WALL
	DENTAL FURNITURE & EQUIPMENT EXISTING RELOCATED			DEMO WALL
	DENTAL FURNITURE & EQUIPMENT FUTURE			NEW WALL
12	EQUIPMENT NUMBER TAG (NUMBERS ARE RANDOM)			SOUND PROOFING IN WALL
	<u> </u>			LEAD LINED WALL





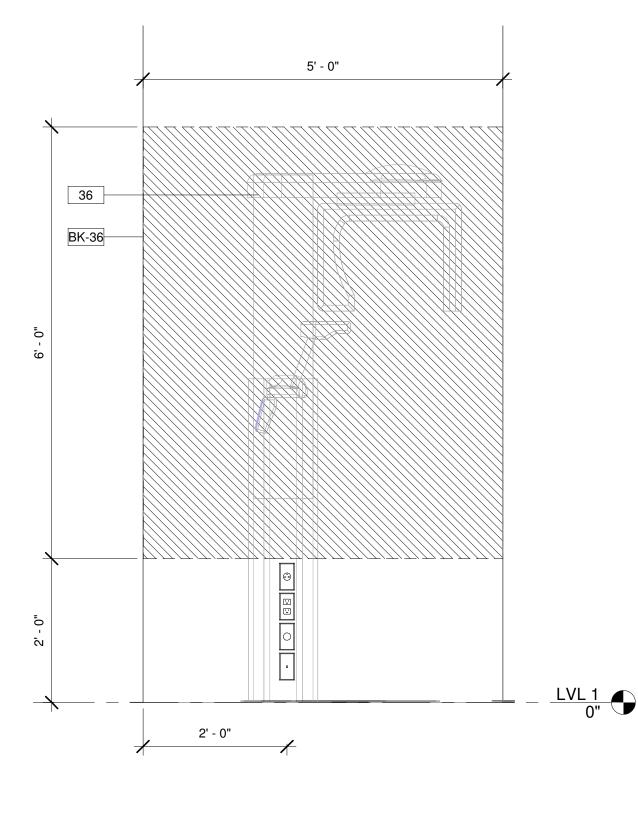
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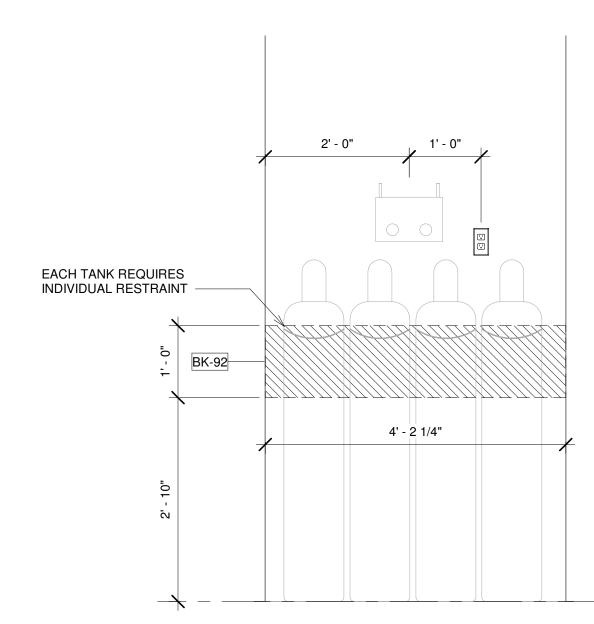
SHEET NO.

EQUIPMENT BACKING SCHEDULE

NOTE: ALL DBL PLYWOOD BACKING IS TO BE GLUED



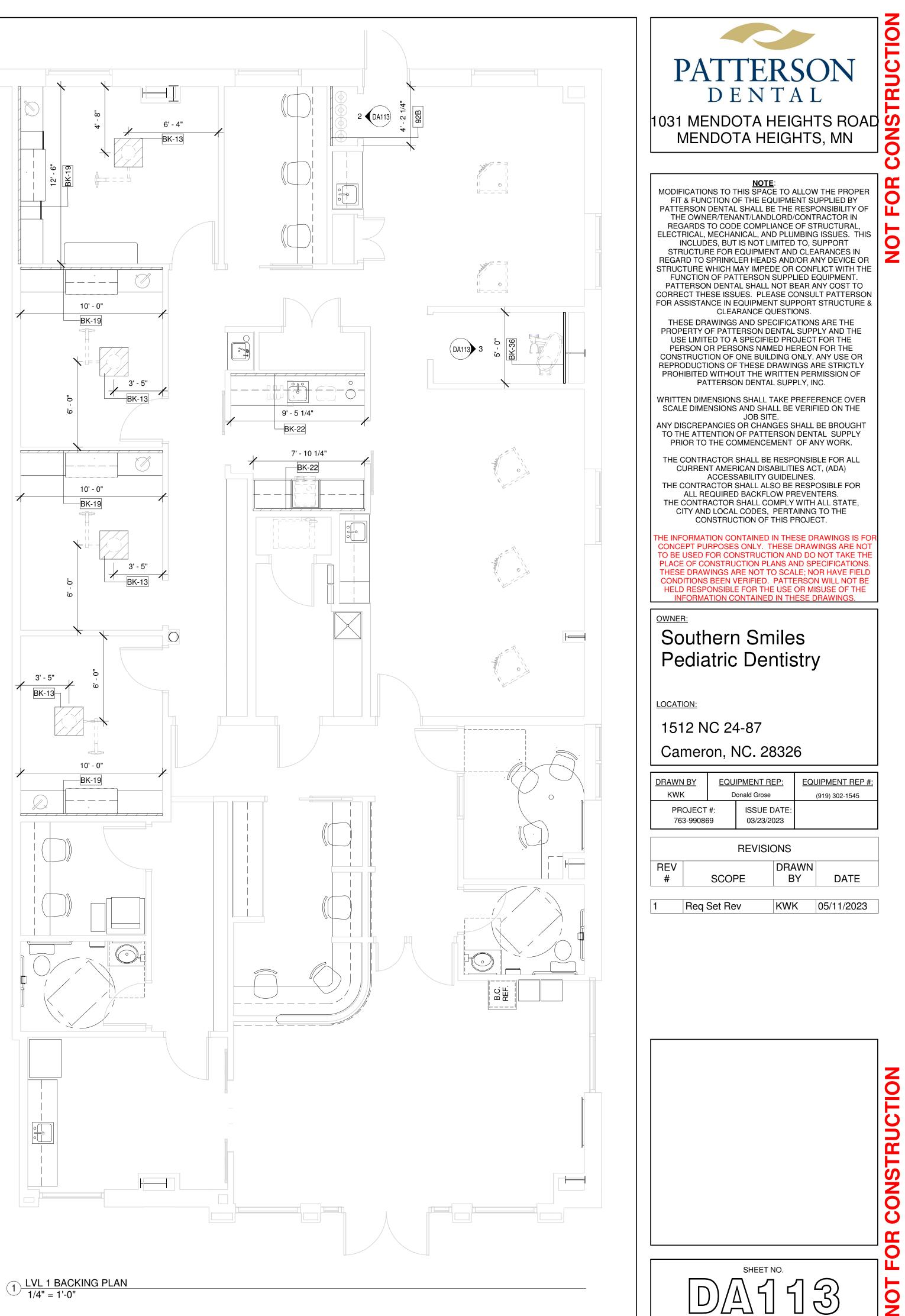




3 ELEVATION PANORAMIC WALL 3/4" = 1'-0"

2 ELEVATION N2O/O2 WALL 3/4" = 1'-0"

NI BA	IT BACKING SCHEDULE										
) and	AND SCREWED										
			١	NAL	L			CEIL	ING		
	SGL 4" X 4" FLOOR TO STRUCTURE ABOVE	DBL 4" X 4" FLOOR TO STRUCTURE ABOVE	DBL 2" X 8" FLOOR TO STRUCTURE ABOVE	DBL .3/4" PLYWOOD (GLUED & SCREWED)	SGL .3/4" PLYWOOD	SGL 2" X 8" TOP OF BASE CABINET	SGL 2" X 8" TOP OF WALL CABINET	DBL.3/4" PLYWOOD PARALLEL TO CEILING	DBL .3/4" PLYWOOD FLUSH WITH CEILING	OTHER	BACKING REMARKS
								•			24" x 24"
						•	•				
						•	•				
TED						•	•				
AINT				•						•	GC TO PROVIDE 2"x12" BRACING / SEE ELEVATION FOR DETAILS



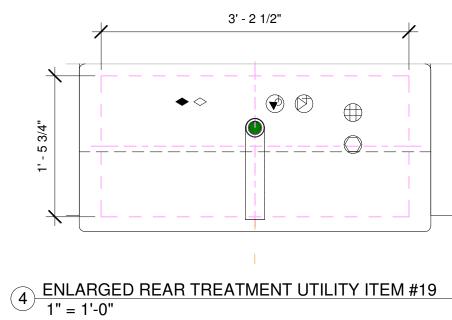
<u>LVL 1</u> 0"

CONSTRUCTION NOT FOR

(919) 302-1545

DATE

= = =



ELECTRICAL SYMBOLS IN FLOOR 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 DEVICE UNLESS OTHERWISE NOTED BELOW, IF ITEM NOT TAGGED HEIGHT IS 18" A.F.F. QTY. SYM. DESCRIPTION

\bigoplus	120v QUAD OUTLET FLOOR, MOUNTED ON FLOOR
\bigcirc	J-BOX FLOOR, IF TAG NOT PRESENT HEIGHT IS 1" A.F.F.

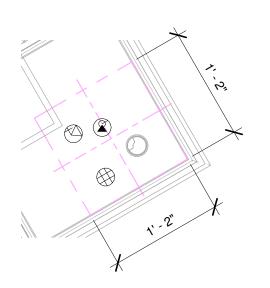
PLUMBING SYMBOLS IN FLOOR

ALL DEVICES SHALL BE INSTALLED PER STATE AND LOCAL CODES. ALL LOCATIONS SHOULD BE VERIFIED WITH PATTERSON REP OR OWNER PRIOR TO PLACEMENT.

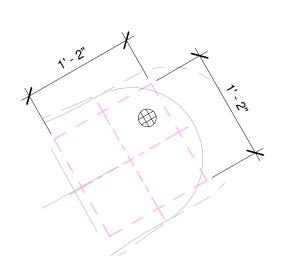
+XX" - INDICATES HEIGHT FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED BELOW, IF ITEM NOT TAGGED HEIGHT IS 18" A.F.F. QTY. SYM. DESCRIPTION

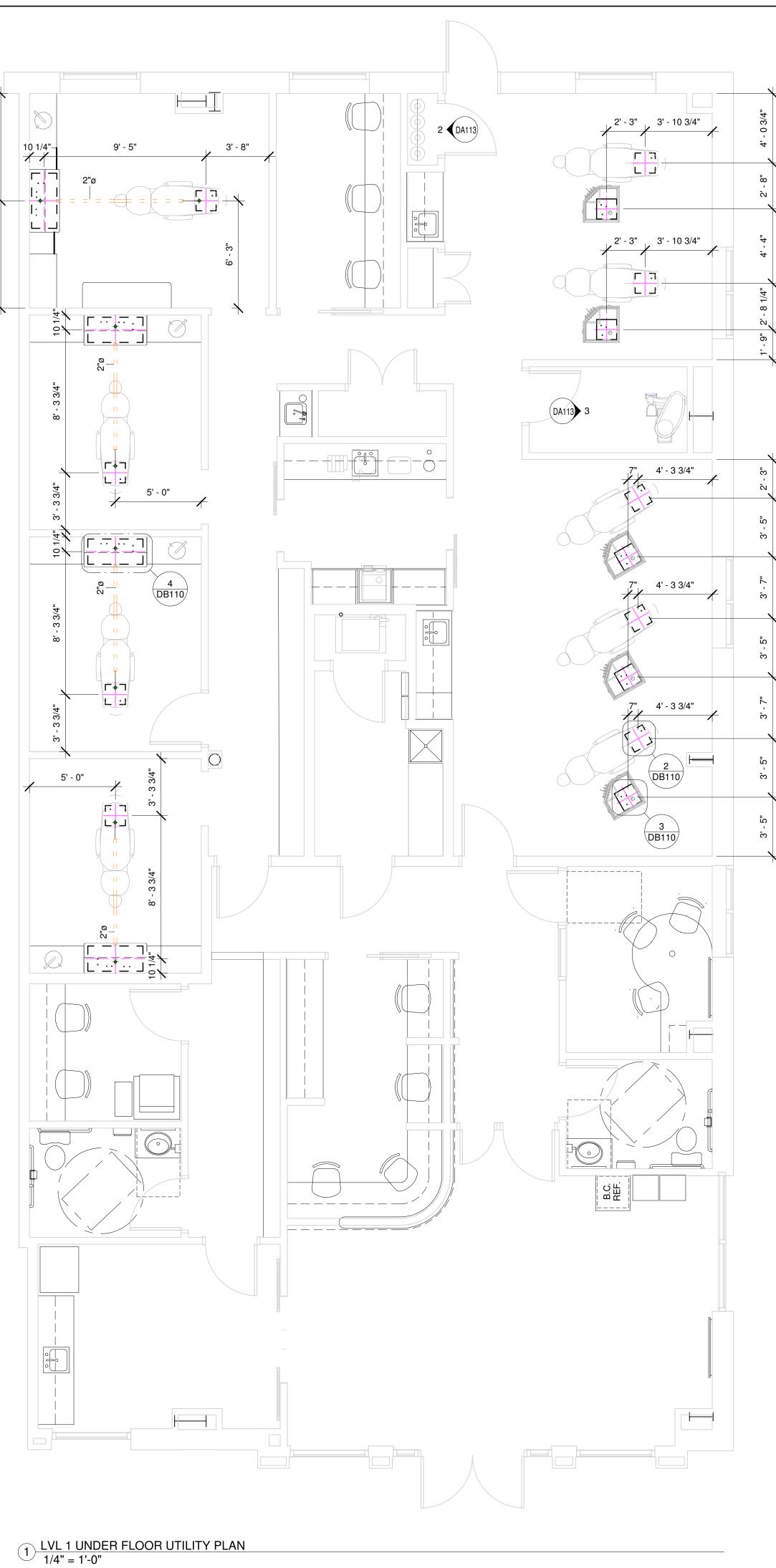
	1/2" OD. TO 3/8" OD.SHUT OFF AIR CONNECTION FLOOR HEIGHT 3" A.F.F. TO CENTER UNLESS OTHERWISE NOTED
\bigcirc	VACUUM PIPE CONNECTION FLOOR
¢	VACUUM RISER FLOOR

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			

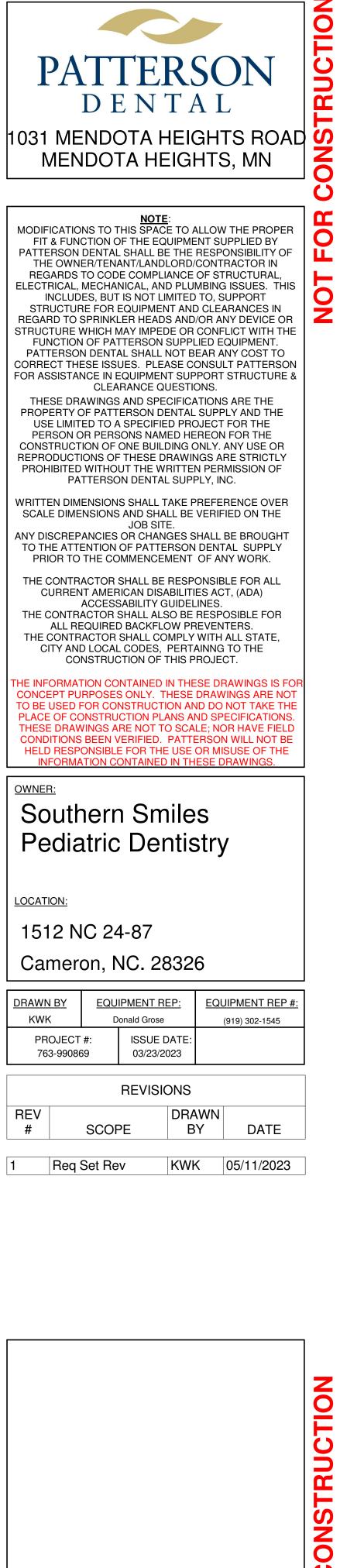


3 ENLARGED CART UTILITY ITEM #26 1" = 1'-0"





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



SHEET NO.

DB1

NOT FOR CONSTRUCTION

	ELECTRICAL SYMBOLS					
ALL LC	ALL DEVICES SHALL BE INSTALLED PER STATE AND LOCAL CODE. ALL LOCATIONS SHOULD BE VERIFIED WITH PATTERSON REP OR OWNER PRIOR TO PLACEMENT.					
DEVIC	+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				
5	\oplus	120v DUPLEX DEDICATED OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE				
2	Φ	120v FLUSH DUPLEX OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE				
1	\oplus	120v QUAD OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE				
1	٢	220v SINGLE OUTLET WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F. TO CENTER OF DEVICE				
4	\bigcirc	J-BOX CLG, IF TAG NOT PRESENT HEIGHT IS 6" ABOVE FINISHED CEILING				
2	9	J-BOX WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F.				

LOW VOLTAGE SYMBOLS

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 DEVICE UNLESS OTHERWISE NOTED BELOW, IF ITEM NOT TAGGED HEIGHT IS 18" A.F.F.

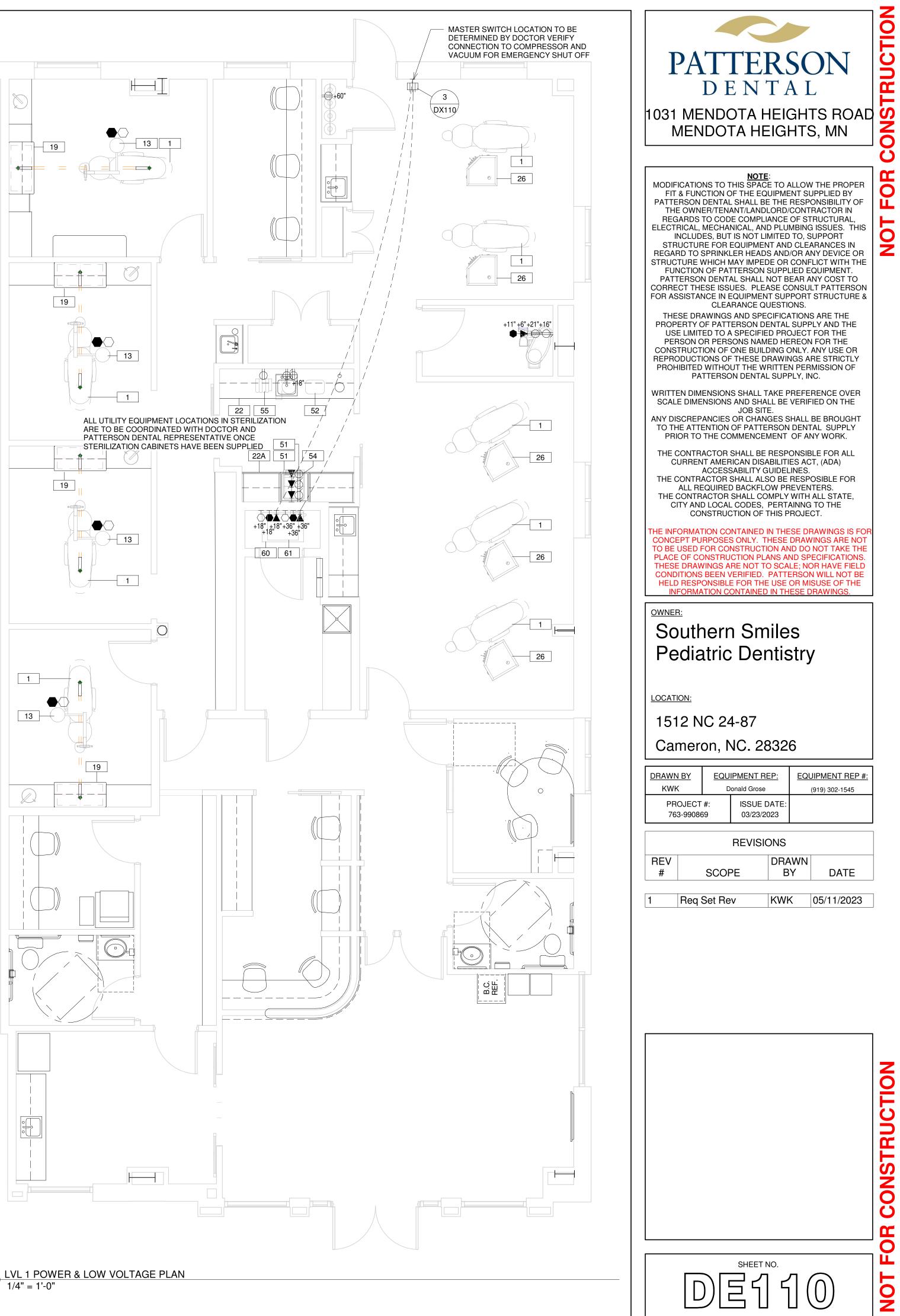
QTY.	SYM.	DESCRIPTION
3		
6	Ŧ	DATA DEVICE WALL, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F.
4		J-BOX CLG LV, IF TAG NOT PRESENT HEIGHT IS 6" ABOVE FINISHED CEILING
3	➡	J-BOX WALL,LOW VOLTAGE, IF TAG NOT PRESENT HEIGHT IS 18" A.F.F

Φ

MASTER SWITCH WALL, IF TAG NOT PRESENT HEIGHT IS 60" A.F.F. TO CENTER

GENERAL NOTES																			
ALL DEV	CES ARE TO BE INSTALLED PER STATE AND LOCA	L CODES.																	
	EQUIPMENT INFO		ELECTRICAL INFO													LOW	VOL	TAGE INFO	
			CONNECTION BY	VOLTS		OUTLET	X OUTLET	F	DIRECT WIRE	ATED POWER		CONNECTION BY	EMPTY CONDUIT	3/4" EMPTY CONDUIT 1" EMPTY CONDUIT	18/3 WIRE	18/4 WIRE	CAT5e OR BETTER	MFG CABLE	
QTY ITE		STATUS		VOLTS		S	Ы	ğ	ā	Ë i	巴巴巴巴尼 ELECTRICAL REMARKS		Ň	3/4	- 18	<u>1</u> 8		E Z	LV REMARKS
9 1 4 13	DENTAL CHAIR DENTAL CEILING LIGHT (LED)	NW NW	EC EC	120v 120v	7.0		•	•	•		• EC TO PROVIDE ELECTRICAL WHIP FROM ELECTRICAL BOX TO LIGHT FIXTURE.	EC EC	•	•	•	•	•		JBOX TO BE MOUNTED ABOVE FINISHED CEILING WITHIN 2' OF FIXTURE
4 19	REAR CABINET	NW	EC	120v	20.0		•				EC TO LEAVE MIN 3' FLEXIBLE CONDUIT	EC	•	•			•		RUN LOW VOLTAGE WIRES AND 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 AND 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 AND 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	EC	120	20.0		•			•		EC		•	•	•	•		
2 51	STERILIZER	NW	EC	120v	12.0		•			•	DEDICATED POWER	EC							
1 52	ULTRASONIC CLEANER	NW	EC	120v	2.0		•		•	•		EC							
1 54	STATIM	NW	EC	120v	11.0		•		•	•		EC							
1 55	HANDPIECE MAINTENANCE	NW	EC	120v	5.0		•												
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.	EC		•	•		•		
1 61	VACUUM	NW	EC	220v	20.0		•			•	DISCONNECT REQUIRED IF UNIT IS NOT LOCATED IN SAME ROOM AS ELECTRICAL PANEL	EC		•	•				

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							



PLUMBING SYMBOLS

ALL DEVICES SHALL BE INSTALLED PER STATE AND LOCAL CODES. ALL LOCATIONS SHOULD BE VERIFIED WITH PATTERSON REP OR OWNER PRIOR TO PLACEMENT.

+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		
1	IIIIIIIIIIIII	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	J.	FRESH AIR IN MANIFOLD WALL
1	P	SHUT OFF VALVE COLD WATER WALL
1	Ŧ	SHUT OFF VALVE HOT WATER WALL
1	Ł	VACUUM PIPE CONNECTION WALL

EQUIPMENT EXHAUST SCHEDULE

GENERAL NOTES:: ALL ITEMS IDENTIFED AS "FT" WILL BE INSTALLED AT A FUTURE DATE. ALL UTILITIES N BE CAP AND CONCEALED FOR FUTURE USE.. ALL ITEMS WILL BE INSTALLED PER STATE AND LOCAL CODES..

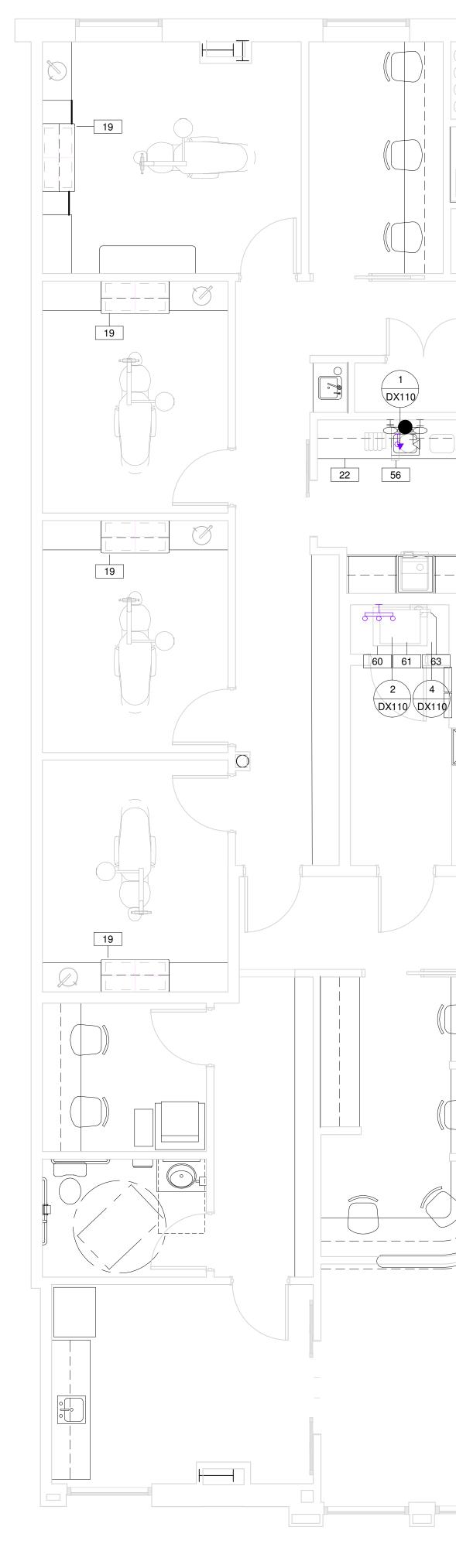
EQUIPMENT INFO QTY ITEM # DESCRIPTION STATUS

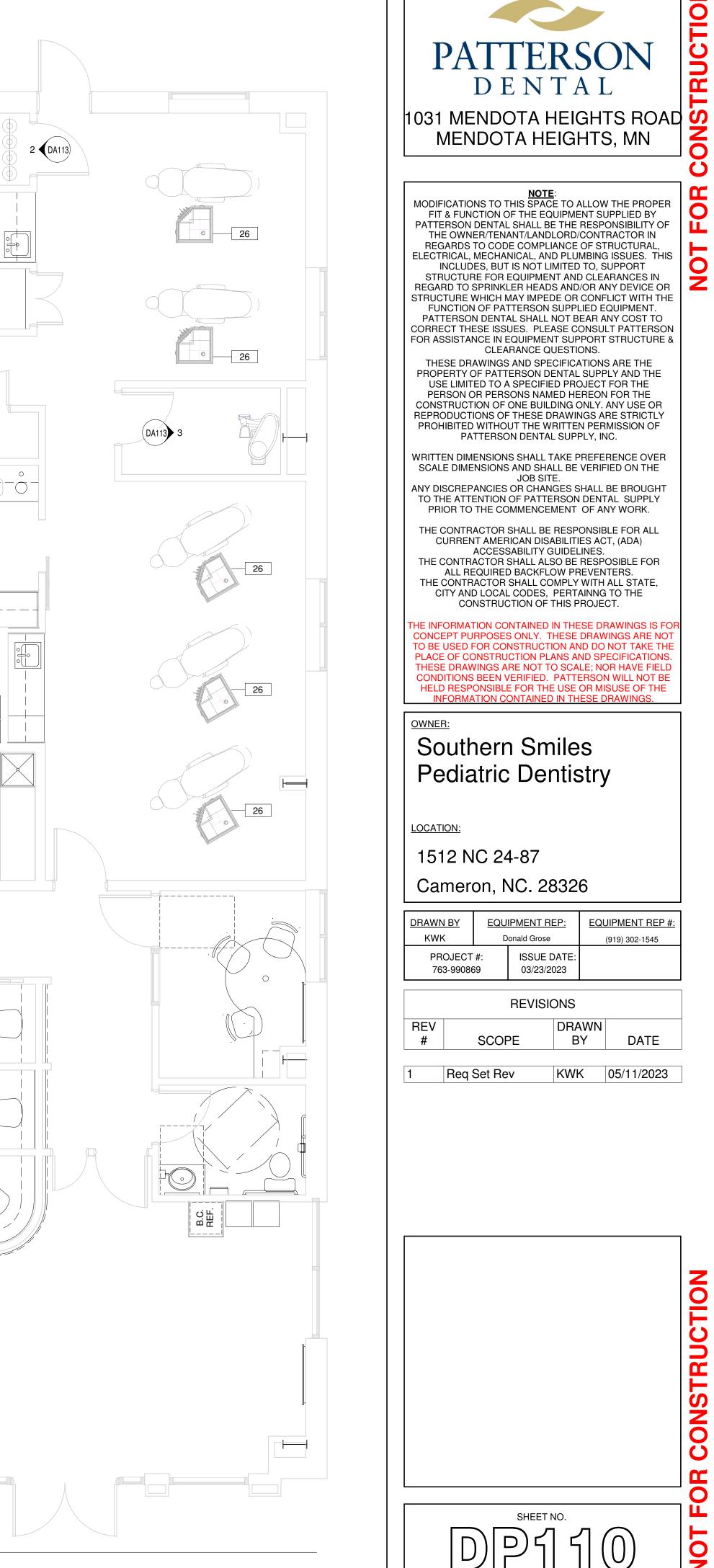
Gen			01/1100						
1	60	AIR COMPRESSOR	NW	COMPRESSOR DESIGNED TO OPERATE AT U ROOM TEMPERATURES BETWEEN 50 AND 9 DEGREES FAHRENHEIT. MAX. ALLOWABLE INTERMITTENT UTILITY ROOM TEMPATURE DEGREES FAHRENHEIT.					
1	61	VACUUM	NW	2" PVC SCHEDULE 80 FRESH AIR VENT REQ OUTSIDE. / ROOM TEMP MUST NOT BE BELC ABOVE 100°/ SEE DETAIL AN INDICATED ON					

	EQUIPMENT PLUMBING-DENTAL COMPRESSED AIR-VAC SCHEDULE																
GENERAL N	OTES:																
ALL ITEMS	TO BE INSTALLED PER STATE AND LOCAL CO	DES															
	PLUMBING PLUMBING INFO VAC INFO DENTAL COMPRESSED AIR																
													MAIN	&	-		
						Y		SANIT	ARY	-	RISER	S BF	RANCI	HES			
Lo ITEM #	DESCRIPTION	STATUS	PLUMBING CONNECTION BY	COLD WATER COPPER	1/2" HOT WATER COPPER 3/4" COI D WATER COPPER	HOT WATER O	LOCED WALEN COPPER TY 		DRAIN INDIRECT DRAIN STAND PIPE		1/2" 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	
4 19	REAR CABINET	INVV	PC	•	•		•	•			•					•	
1 22	STERILIZATION CABINET CONTAMINATED	NW	PC	•	•		•	•			•					•	
1 22A	STERILIZATION CABINET CLEAN	NW	PC														
5 26		NW	PC PC													•	
1 56 1 60	WATER TREATMENT AIR COMPRESSOR	NW NW	PC •	<u>}</u>	•				•	REQUIRES FRESH AIR INTAKE FROM OUTSIDE UTILITY	,		-	•			IF PIPE VOLUME IS TO GREAT MORE THAN 235 IN ³ OR
1 00										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.						•	MORE THAN 233 IN° OR MORE THAN 100 FT. OF 1/2 DIAMETER PIPE, A PRESSURE REGULATOR SHOULD BE INSTALLED BETWEEN MAIN TANK AND THE DISTRIBUTION PIPING AND SET TO 80 PSI.
1 61	VACUUM	NW	PC	•			•		•	REQUIRES FLOOR SINK OR STAND PIPE PER LOCAL CODES PROVIDED BY OTHERS,			•				
1 63	AMALGAM SEPARATOR	NW	PC										•				

NEED TO
UTILITY 0
IS 100
UIRED TO DW 35°OR N PLAN

VENT EXHALIST REMARKS





NOT FOR CONSTRUCTION

EQUIPMENT N2O-O2 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 ARE REQUIRED TO BE INSTALLED PER NFPA-99, STATE AND LOCAL CODES..

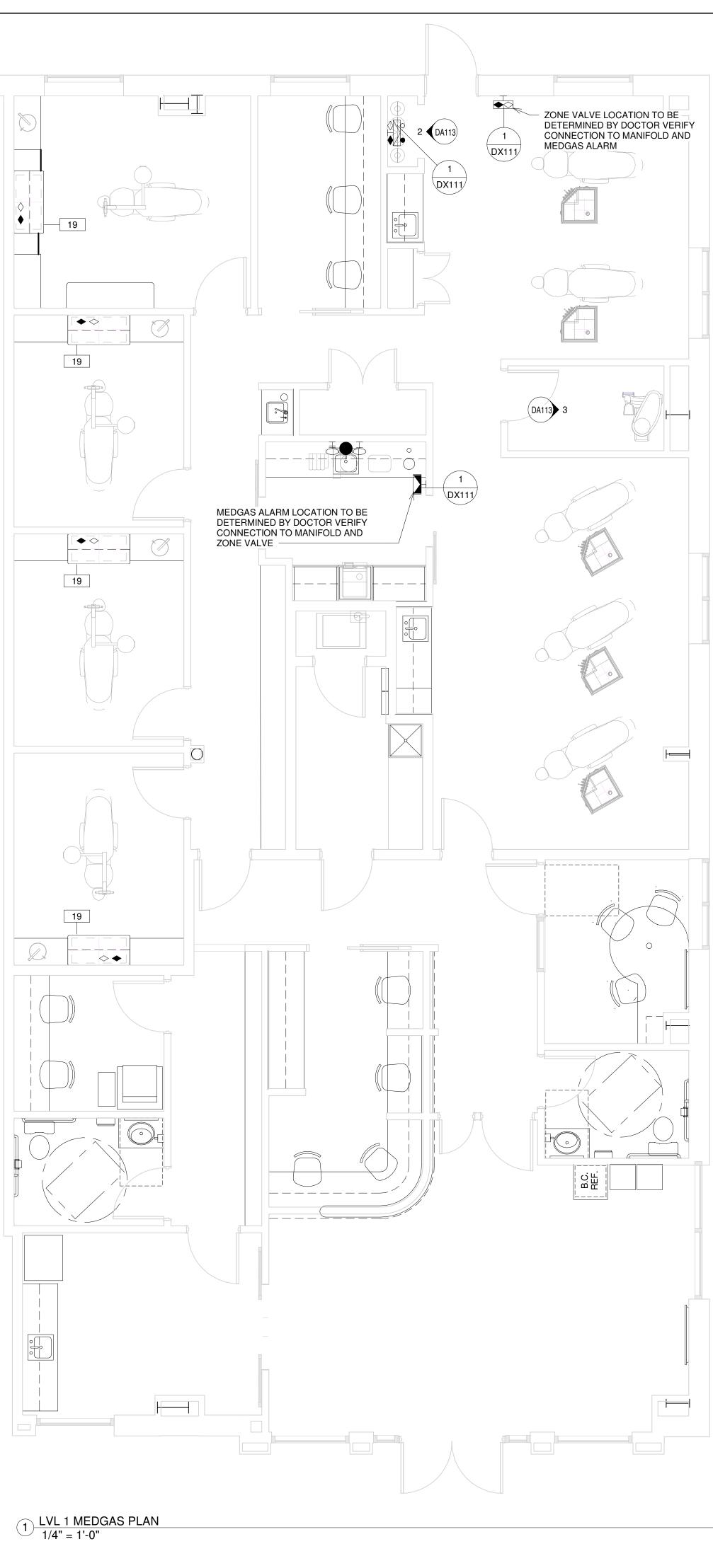
		EQUIPMENT INFO)	ME GA INI	AS
QTY	ITEM #	DESCRIPTION	STATUS	3/8" TYPE L OR K COPPER	1/2" TYPE L OR K COPPER
4	19	REAR CABINET	NW	•	•

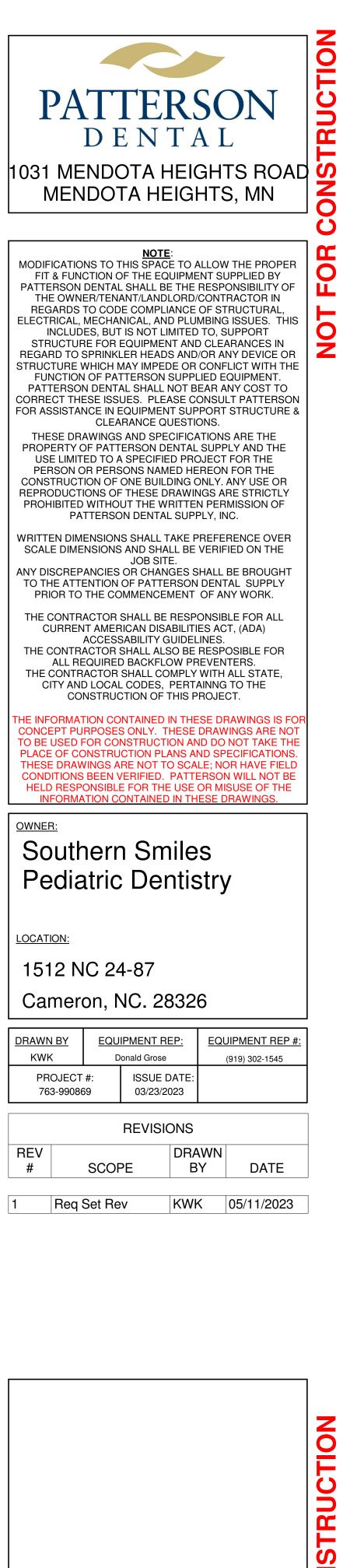
N2O-O2 SYMBOLS

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.

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.

-	+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											
4											
1		N2O-O2 ALARM ON WALL, IF TAG NOT PRESENT HEIGHT IS 60" TO CENTER OF DEVICE A.F.F.									
1		N2O-O2 MANIFOLD ON WALL, UNLESS OTHERWISE NOTED HEIGHT IS 60 TO BOTTOM OF DEVICE A.F.F.									
1		N2O-O2 ZONE VALVE IN WALL, UNLESS NOTED OTHERWISE, HEIGHT IS 60" A.F.F TO BOTTOM OF DEVICE									



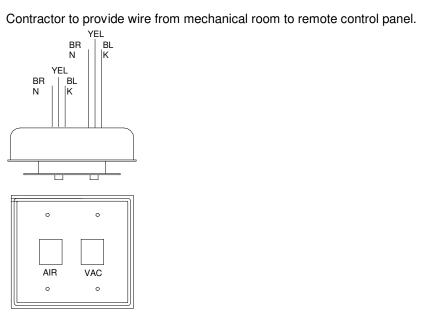


FOR CONSTRUCTION NOT

SHEET NO.

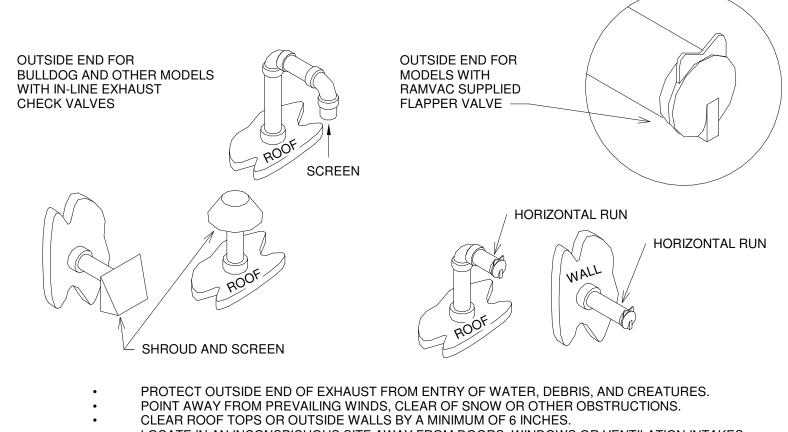
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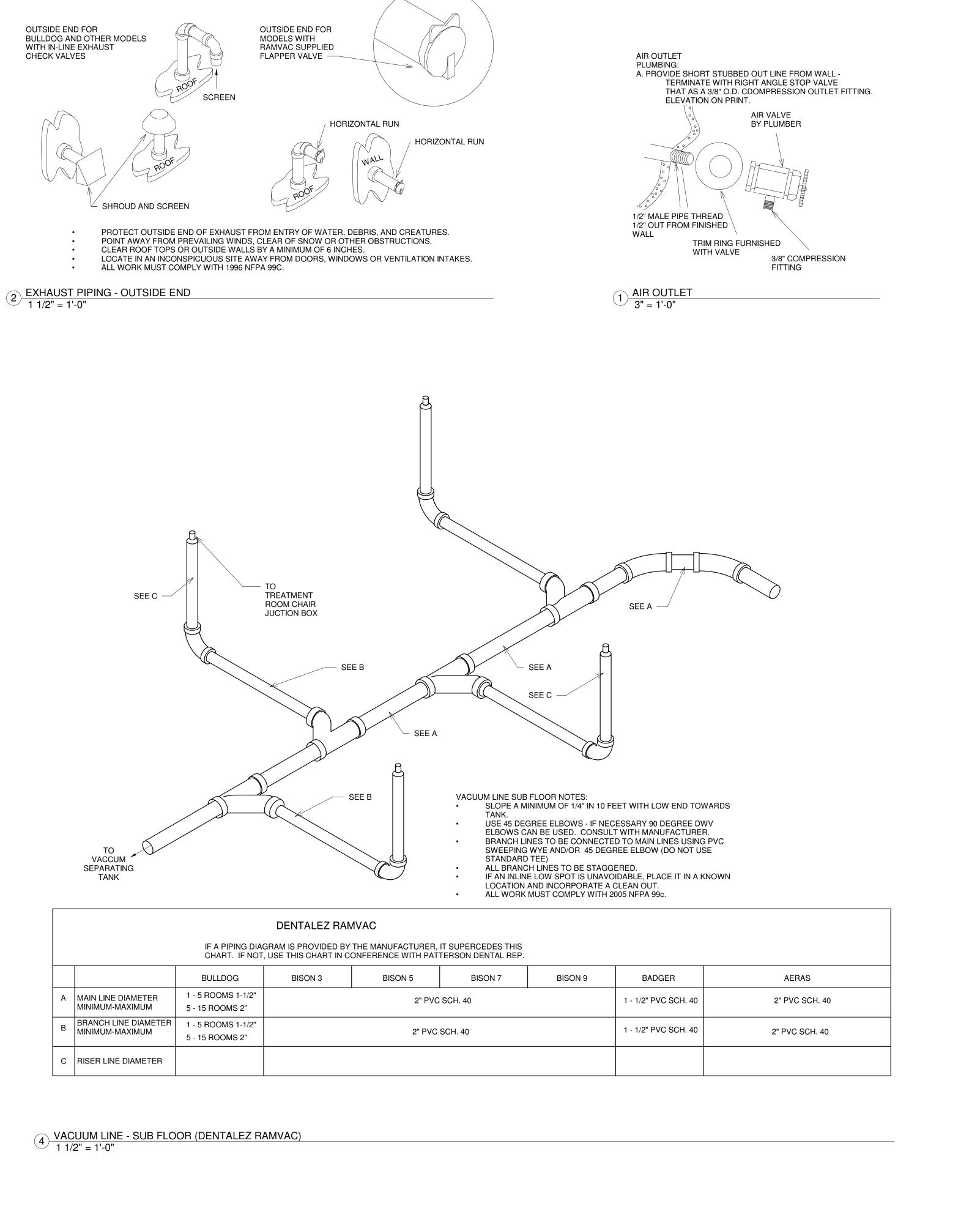
3 REMOTE CONTROL PANEL 3" = 1'-0"



<u>Caution</u>! Local codes may dictate changes to the above specifications.

NOTE: 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.





	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							
A	MAIN LINE DIAMETER MINIMUM-MAXIMUM	1 - 5 ROOMS 1-1/2" 5 - 15 ROOMS 2"	2" PVC SCH. 40										
В	BRANCH LINE DIAMETER MINIMUM-MAXIMUM	1 - 5 ROOMS 1-1/2" 5 - 15 ROOMS 2"	2" PVC SCH. 40										
С	RISER LINE DIAMETER												

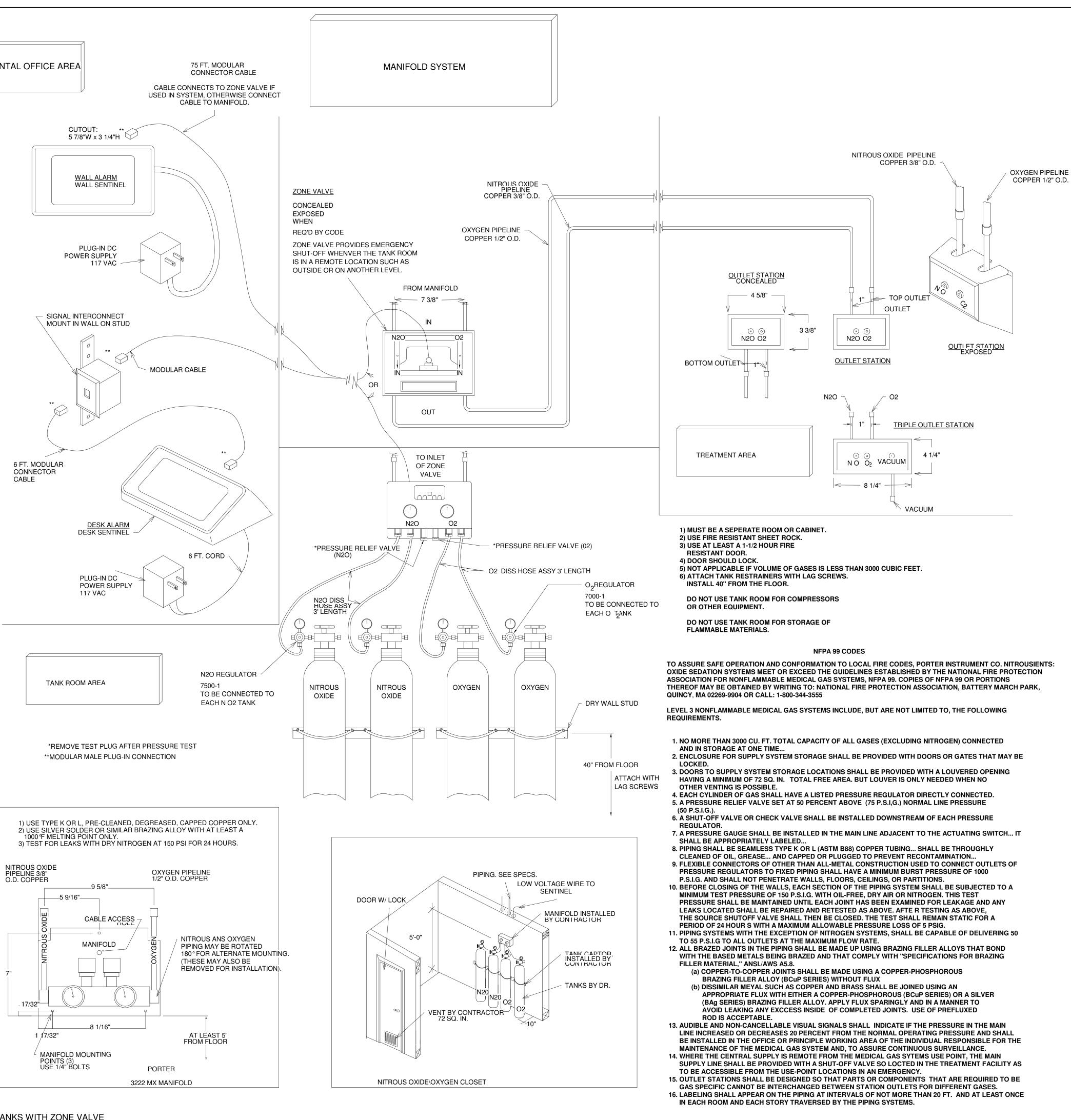
4 VACUUM LINE - SUB FLOOR (DENTALEZ RAMVAC) 1 1/2" = 1'-0"

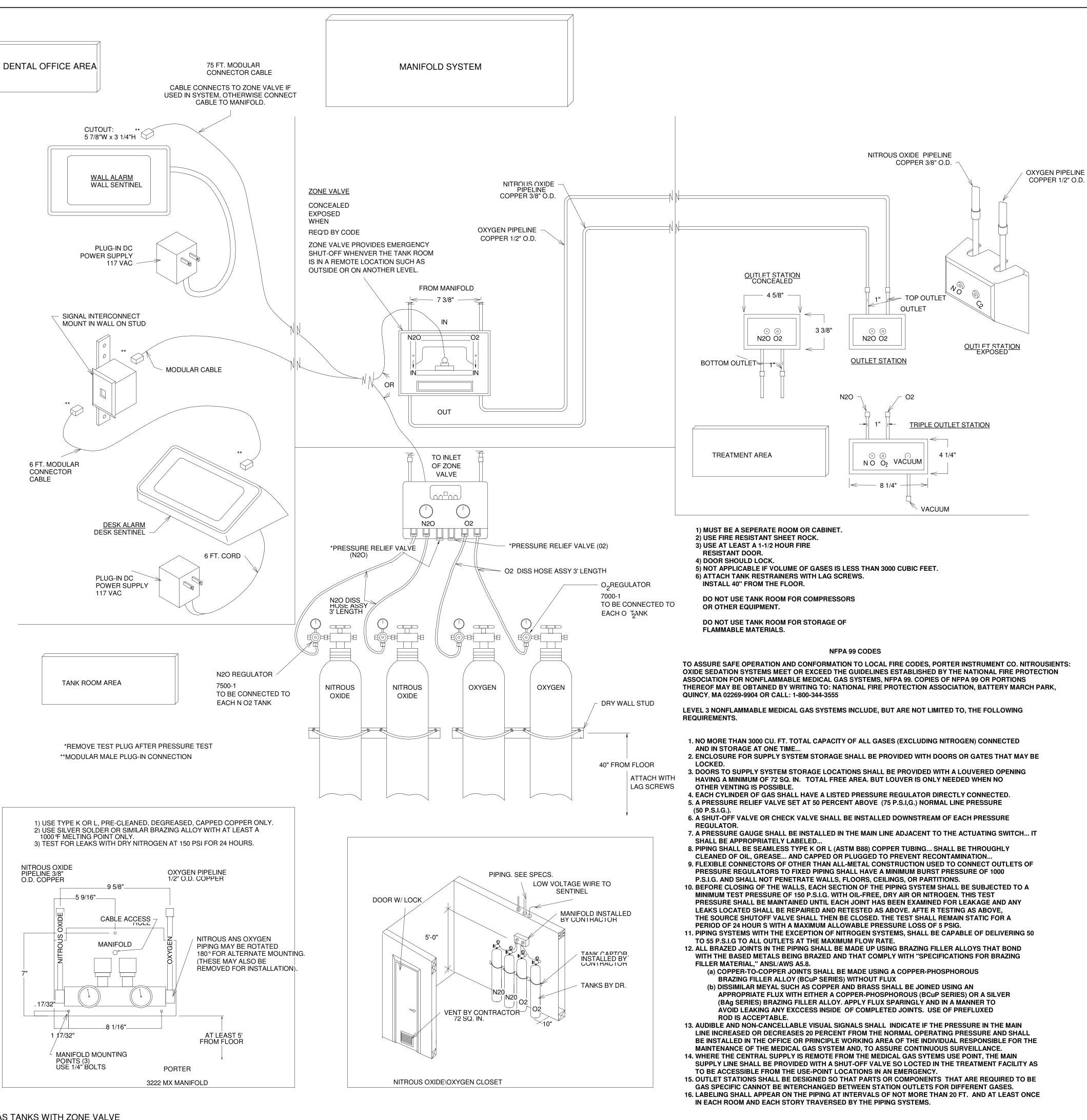
PATTERSC)N 🛛
DENTAL	
1031 MENDOTA HEIGHT MENDOTA HEIGHTS	
NOTE: MODIFICATIONS TO THIS SPACE TO ALLOW FIT & FUNCTION OF THE EQUIPMENT SU PATTERSON DENTAL SHALL BE THE RESPONNTHE OWNER/TENANT/LANDLORD/CONTEREGARDS TO CODE COMPLIANCE OF ST ELECTRICAL, MECHANICAL, AND PLUMBING INCLUDES, BUT IS NOT LIMITED TO, SU STRUCTURE FOR EQUIPMENT AND CLEAR REGARD TO SPRINKLER HEADS AND/OR AN STRUCTURE WHICH MAY IMPEDE OR CONFIL FUNCTION OF PATTERSON SUPPLIED EXTERSON DENTAL SHALL NOT BEAR AN CORRECT THESE ISSUES. PLEASE CONSUL FOR ASSISTANCE IN EQUIPMENT SUPPORT CLEARANCE QUESTIONS. THESE DRAWINGS AND SPECIFICATIONS PROPERTY OF PATTERSON DENTAL SUPPL USE LIMITED TO A SPECIFIED PROJECT PERSON OR PERSONS NAMED HEREON CONSTRUCTION OF ONE BUILDING ONLY. A REPRODUCTIONS OF THESE DRAWINGS AF PROHIBITED WITHOUT THE WRITTEN PER	PPLIED BY DNSIBILITY OF RACTOR IN RUCTURAL, ISSUES. THIS UPPORT RANCES IN NY DEVICE OR LICT WITH THE QUIPMENT. NY COST TO T PATTERSON STRUCTURE & ARE THE LY AND THE FOR THE FOR THE FOR THE ANY USE OR RE STRICTLY
PATTERSON DENTAL SUPPLY, IN WRITTEN DIMENSIONS SHALL TAKE PREFEF SCALE DIMENSIONS AND SHALL BE VERIFI JOB SITE. ANY DISCREPANCIES OR CHANGES SHALL B	C. RENCE OVER IED ON THE BE BROUGHT
TO THE ATTENTION OF PATTERSON DENT. PRIOR TO THE COMMENCEMENT OF AN THE CONTRACTOR SHALL BE RESPONSIBI	IY WORK.
THE CONTRACTOR SHALL BE RESPONSIB CURRENT AMERICAN DISABILITIES AC ACCESSABILITY GUIDELINES. THE CONTRACTOR SHALL ALSO BE RESPONSION ALL REQUIRED BACKFLOW PREVEN THE CONTRACTOR SHALL COMPLY WITH A CITY AND LOCAL CODES, PERTAINNG CONSTRUCTION OF THIS PROJECT	T, (ADA) DSIBLE FOR TERS. ALL STATE, TO THE
THE INFORMATION CONTAINED IN THESE DR CONCEPT PURPOSES ONLY. THESE DRAW TO BE USED FOR CONSTRUCTION AND DO PLACE OF CONSTRUCTION PLANS AND SPE THESE DRAWINGS ARE NOT TO SCALE; NO CONDITIONS BEEN VERIFIED. PATTERSON HELD RESPONSIBLE FOR THE USE OR MIS INFORMATION CONTAINED IN THESE D	INGS ARE NOT NOT TAKE THE ECIFICATIONS. DR HAVE FIELD I WILL NOT BE SUSE OF THE
OWNER: Southern Smiles Pediatric Dentistry	,
1512 NC 24-87	
Cameron, NC. 28326	
	IIPMENT REP #:
PROJECT #: ISSUE DATE: 763-990869 03/23/2023	919) 302-1545
REVISIONS REV DRAWN	
# SCOPE BY	DATE
1 Req Set Rev KWK	05/11/2023

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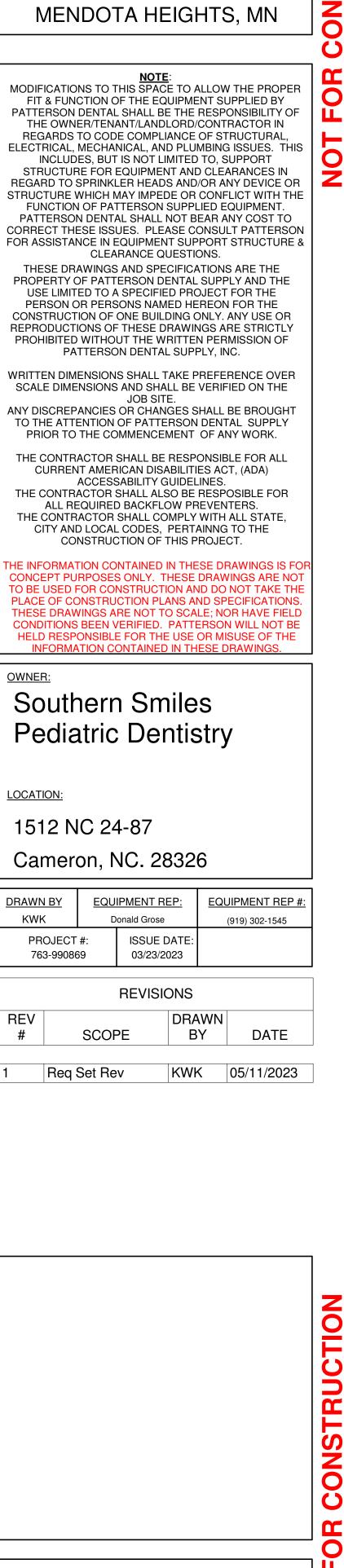
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fl (())





MED-GAS TANKS WITH ZONE VALVE 1/4" = 1'-0"



PATTERSON

DENTAL

