

DENTAL EQUIPMENT LEGEND				
(TEM)	DESCRIPTION	STATUS	LOCATION	
1	(2) A/T AIRSTAR 100 AIR COMPRESSORS	NEW	MECH. ROOM	
2	A/T MOJAVE 4V5 VACUUM PUMP	NEW	MECH. ROOM	
3	RAMVAC HG5 AMALGAM SEPARATOR	NEW	MECH. ROOM	
4	REMOTE CONTROL PANEL FOR MECHANICAL EQUIPMENT	NEW	VERIFY LOCATION	
5	ACCUTRON DIGI-FLO NITROUS MANIFOLD	NEW	CYL. RM.	
6	ACCUTRON NITROUS WALL ALARM	NEW	STERILE (VERIFY LOCATION)	
7	INSTRUMENTARIUM FOCUS INTRAORAL X-RAY w/ 85" REACH	NEW	TR'S 1, 12, 13, 14, 15 & 16	
8	INSTRUMENTARIUM FOCUS INTRAORAL X-RAY w/ 75" REACH	NEW	CENTER ISLANDS BETWEEN TR'S	
9	MISCELLANEOUS STERILE EQUIPMENT: ULTRASONIC CLEANER, AUTOCLAVE & (2) MIELE WASHERS	NEW	STERILE (VERIFY LOCATIONS)	
10	MISCELLANEOUS LAB EQUIPMENT: DISPOSABLE PLASTER TRAP, MODEL TRIMMER, & LATHE	NEW	LAB (VERIFY LOCATIONS)	
_	REMAINING MISCELLANEOUS CABINETRY & MILLWORK BY OTHERS	NEW	AS SHOWN ON EQUIPMENT PLAN	

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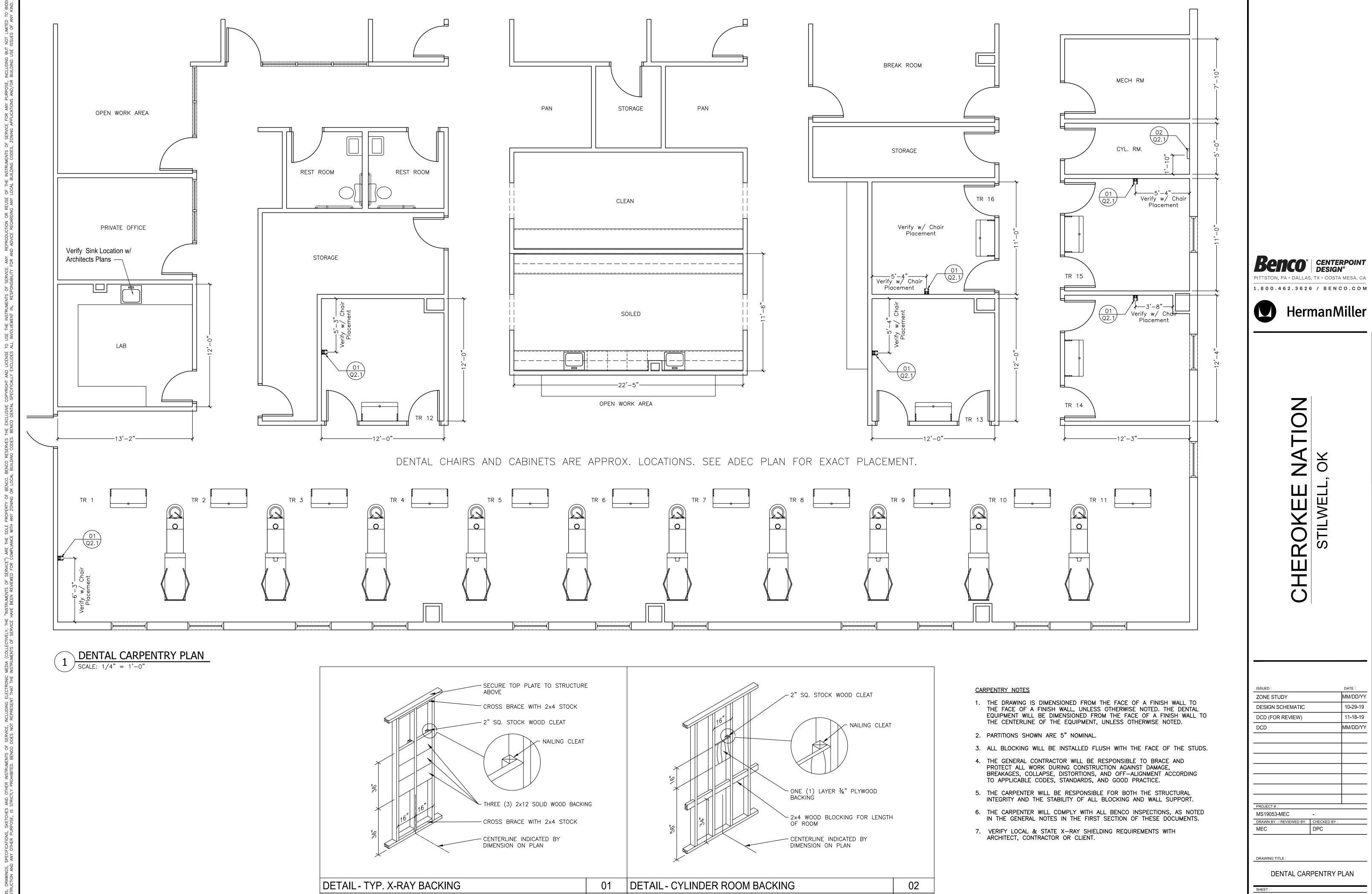
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PROJECT#:		
MS19053-MEC	-	
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MEC	DPC	

DENTAL EQUIPMENT PLAN

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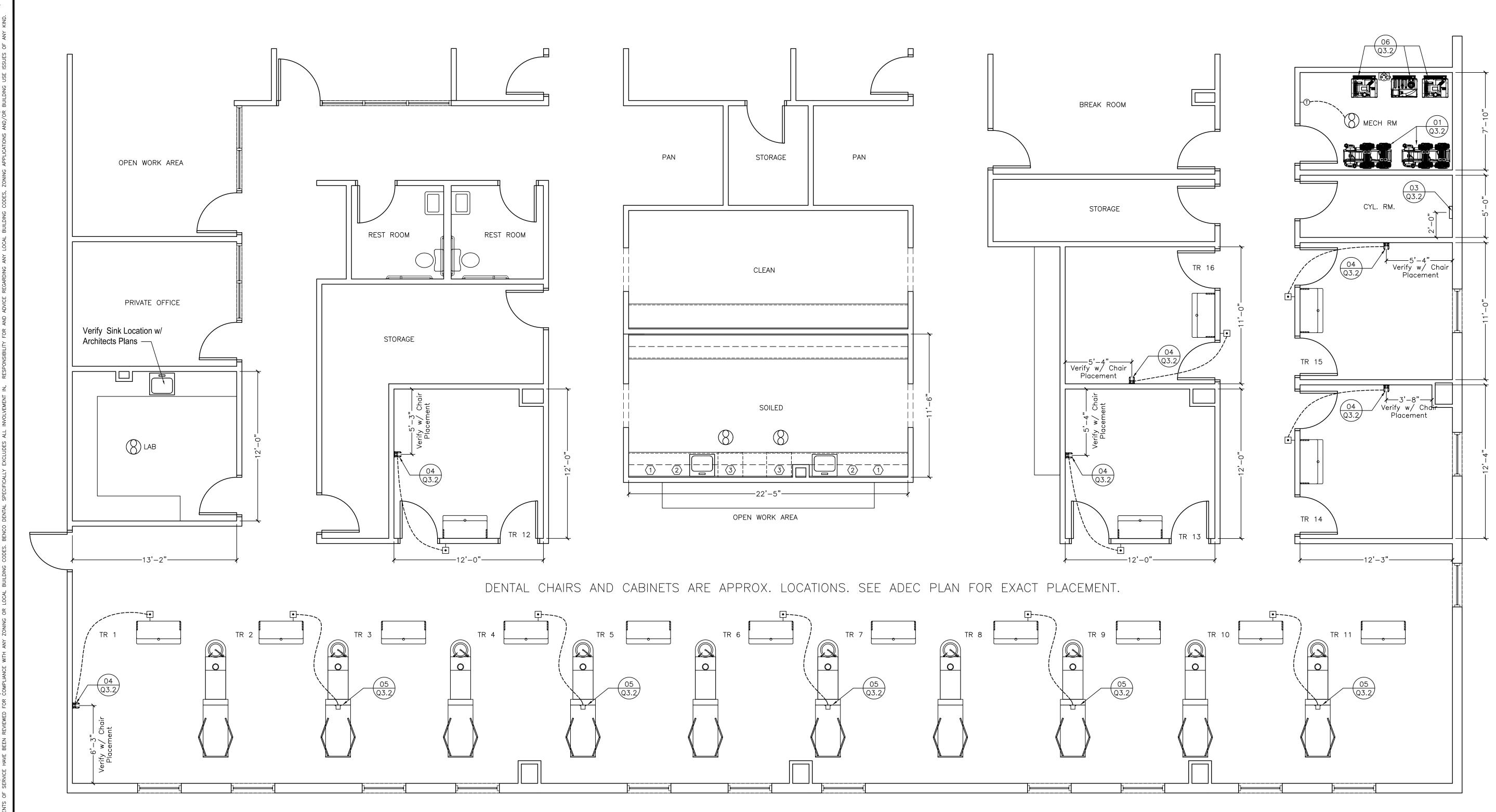
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DENTAL ELECTRICAL PLAN

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

ELECTRICAL NOTES

- 1. ALL EQUIPMENT WILL BE SINGLE PHASE, UNLESS OTHERWISE NOTED.
- 2. ALL WIRING WILL BE CONCEALED WITHIN THE WALLS AND/OR FLOOR, UNLESS OTHERWISE NOTED.
- 3. THE ELECTRICIAN WILL TAG ALL WIRES AT TERMINATION POINTS.
- 4. THE ELECTRICIAN WILL REMOVE ALL EXISTING RECEPTACLES AND SWITCHES IN THE AREA OF WORK. THE ELECTRICIAN WILL EITHER INSTALL A BLANK PLATE OVER RECEPTACLE OR SWITCH BOX OR REMOVE BOX ENTIRELY. THE ELECTRICIAN WILL TERMINATE WIRING AND CONDUIT IN A MANNER IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- 5. THE ELECTRICIAN WILL INSTALL COMPLETE AND MAKE FINAL HOOK-UP TO THE FOLLOWING DENTAL EQUIPMENT, SUPPLIED BY EITHER THE DOCTOR OR BENCO DENTAL, INCLUDING, BUT NOT LIMITED TO:
- AIR COMPRESSOR VACUUM PUMP
- CONTROL PANEL
- WATER CONTROL VALVE
- 6. THE ELECTRICIAN WILL BE ONSITE ON THE DAY(S) OF INSTALLATION TO WORK WITH THE BENCO REPRESENTATIVE ON FINAL HOOK-UP. THE ELECTRICIAN WILL SUPPLY AND INSTALL ANY AND ALL MATERIALS INDICATED IN THE ELECTRICAL DETAILS SHOWN AND MANUFACTURER'S INSTALLATION INSTRUCTION SHEETS.
- 7. IN THE EVENT OF ANY EQUIPMENT BEING RELOCATED TO ANOTHER LOCATION, ANY AND ALL CIRCUITS MUST BE TERMINATED BY THE ELECTRICIAN IN ACCORDANCE WITH LOCAL CODE. VERIFY RESPONSIBILITY WITH THE OWNER.
- 8. THE ELECTRICIAN WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
- 9. THE ELECTRICIAN WILL COMPLY WITH ALL BENCO INSPECTIONS, AS NOTED IN THE GENERAL NOTES ON THE FIRST PAGE OF THESE DOCUMENTS.
- 10. ALL 120 VOLT, 20 AMP OUTLETS INSTALLED WITHIN 6 FEET OF A SINK AND THOSE LOCATED OUTDOORS SHALL HAVE GFCI PROTECTION.
- 11. ALL 120 VOLT, 20 AMP DENTAL EQUIPMENT OUTLETS INSTALLED WITHIN 6 FEET OF A WATER SOURCE SHALL HAVE GFCI PROTECTION.

NOTES LEGEND

- 1 RECEPTACLES ABOVE &/OR BELOW COUNTERTOPS (VERIFY QUANTITY & LOCATION WITH BENCO REP AT TIME OF LAYOUT)
- 2 ULTRASONIC CLEANER & AUTOCLAVE RECEPTACLE 110V, 20 AMP CIRCUIT (VERIFY LOCATION W/BENCO REP AT TIME OF LAYOUT)
- ③ MIELE INSTRUMENT WASHER PROVIDE 230V 30AMP DEDICATED CIRCUIT.

ELECTRICAL LEGEND			
SYMBOL DESCRIPTION			
Φ	THERMOSTATIC ON/OFF SWITCH		
/	WIRING, CONCEALED IN WALL OR CEILING		
8	EXHAUST FAN MOUNTED IN CEILING (VERIFY CFM REQUIREMENTS WITH ARCHITECT)		
•	EXPOSURE BUTTON		

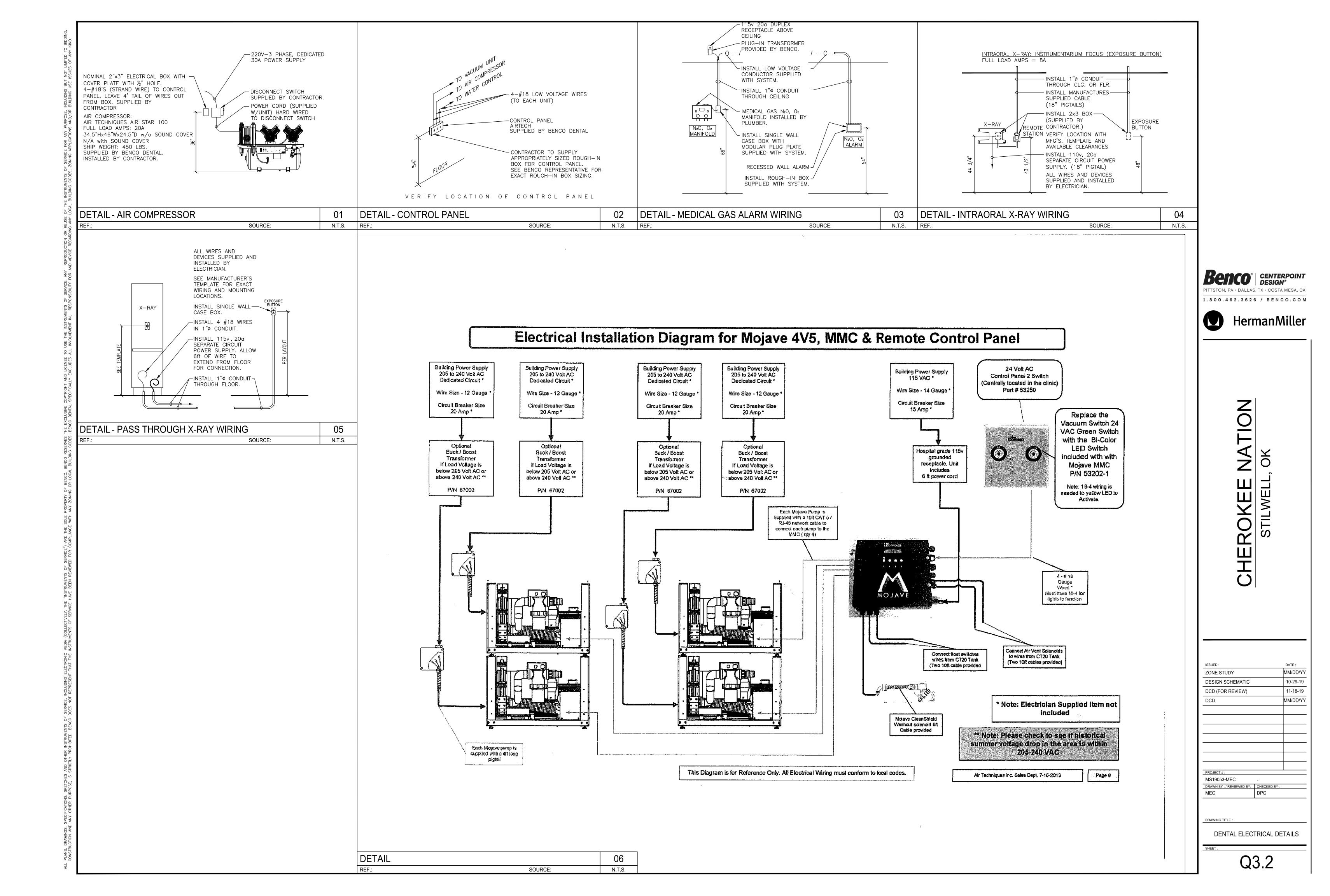
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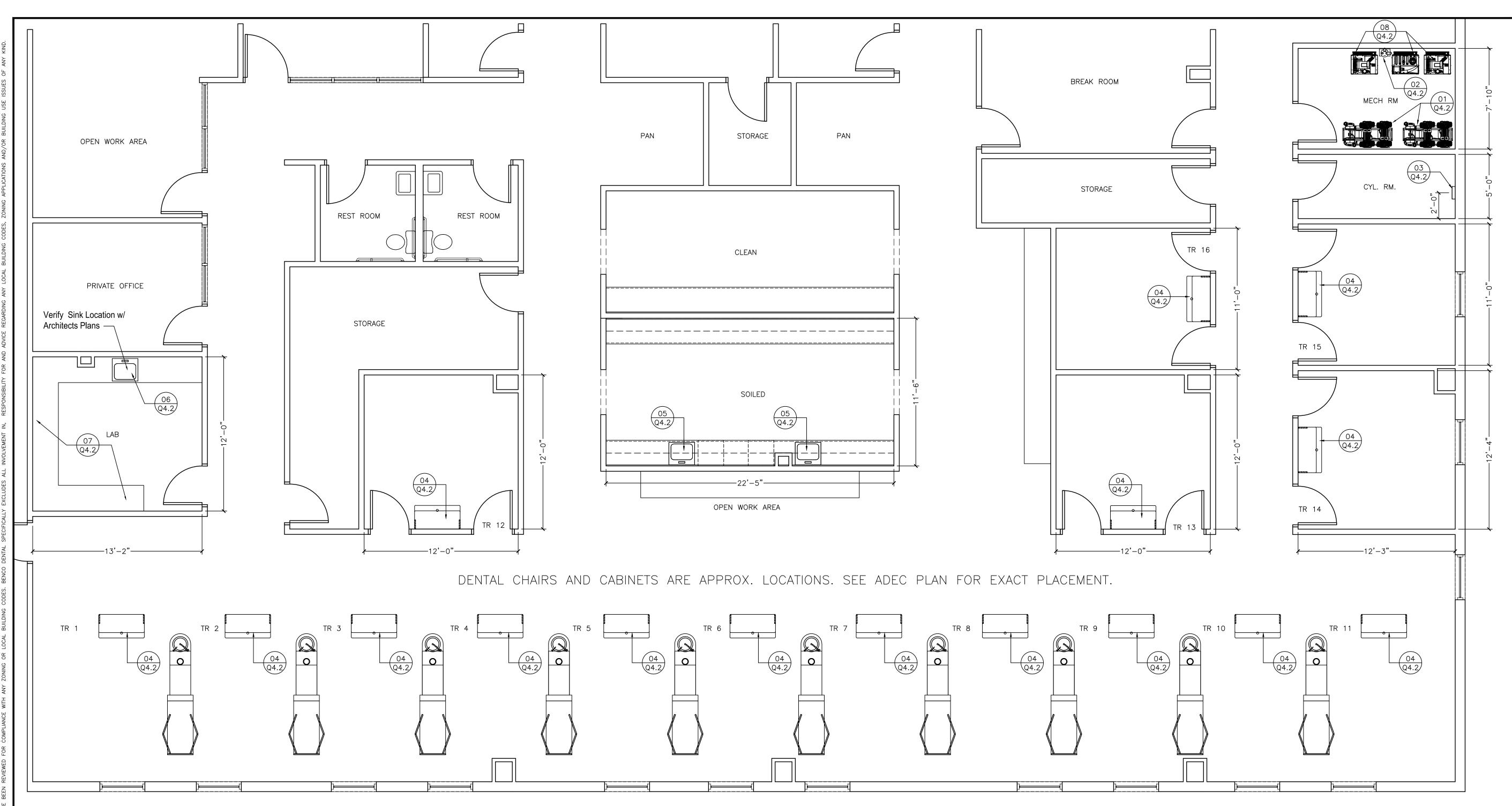


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DENTAL ELECTRICAL PLAN

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DENTAL PLUMBING PLAN

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

MEDICAL GAS NOTES (IF APPLICABLE)

- 1. ENGINEER AND CONTRACTOR TO FOLLOW ALL APPLICABLE DESIGN AND INSTALLATION PROCEDURES AS LISTED UNDER NFPA #99C LEVEL 3 (MEDICAL GASES).
- 2. ALL MEDICAL GAS AND VACUUM PIPING LOCATED UNDER SLAB (AS PER NFPA 2012, 2015 & 2018, WITHIN SLAB IS NOT ALLOWED) WITHIN BUILDINGS SHALL BE:
- a. ALL UNDER SLAB PIPING IS ALLOW AND DOES NOT REQUIRE CONDUIT, EXCEPT WHERE ANY AND ALL PIPING SHALL PENETRATE THE SLAB. (JOINTS ARE ALLOWED UNDER SLAB)
- 3. FOLLOW NFPA 2012, 5.3.6. MED GAS PIPING & BRAZING BY ASSE 6010 MED GAS PLUMBER FOR INSTALLATIONS &
- 4. MEDICAL GAS CLOSETS NEED TO FOLLOW:
- a. NATURAL VENTILATION, NFPA 2012, 9.9, 2012, 9.3.6.5.2
- b. MECHANICAL VENTILATION, NFPA 2012, 9.3.6.5.3
- c. CONSTRUCTION TO HAVE FIRE RATED WALLS, FLOORING, CEILING, DOOR & DOOR FRAME. NFPA
- 5. WHEN (4) OR MORE TREATMENT ROOMS ARE EQUIPPED WITH MEDICAL GAS, THE DENTAL SUITE MUST BE EQUIPPED WITH A SPRINKLER SYSTEM.

 (THIS ONLY APPLIES TO ANESTHETIC LOCATIONS, AND DOES

NOT APPLY TO N20/02 ANALGESIA/CONSIOUS SEDATION.)

PLUMBING NOTES

- 1. THE PLUMBER WILL SUPPLY AND INSTALL A WATER PRESSURE REGULATOR ON INCOMING WATER SUPPLY. THE PLUMBER WILL SET THE REGULATOR NOT TO EXCEED 65 PSI.
- 2. THE PLUMBER WILL INSTALL THE WATER FILTER (AND THE WATER SOFTENER, AS NEEDED) ON THE COLD WATER MAIN ENTERING THE DENTAL SUITE. THE WATER FILTER WILL BE SUPPLIED BY EITHER BENCO DENTAL OR THE DOCTOR.
- 3. THE PLUMBER WILL SUPPLY AND INSTALL SEPARATE MANUAL SHUT-OFF VALVES ON ALL SINKS, DENTAL UNITS, AND OUTLETS REQUIRING WATER AND/OR AIR.
- 4. ALL SINKS AND FAUCETS WILL BE CONNECTED BY THE PLUMBER.
- 5. ALL PIPES WILL BE CONCEALED WITHIN THE WALLS AND/OR THE FLOOR, UNLESS OTHERWISE NOTED ON THE BENCO DRAWINGS.
- 6. THE PLUMBER WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
- 7. ALL PIPES WILL BE FLUSHED CLEAR OF ALL DEBRIS BY THE PLUMBER.
- 8. THE PLUMBER WILL BE ONSITE ON THE DAY(S) OF INSTALLATION TO WORK WITH THE BENCO REPRESENTATIVE ON THE FINAL HOOK-UP. THE PLUMBER WILL SUPPLY AND INSTALL ANY AND ALL MATERIALS INDICATED IN THE PLUMBING DETAILS SHOWN AND THE MANUFACTURER'S INSTALLATION INSTRUCTION SHEETS.
- 9. THE PLUMBER WILL PROVIDE AND INSTALL ALL WATER SAFETY DEVICES (i.e. CHECK VALVES, BACKFLOW PREVENTERS, ETC.) IN ACCORDANCE WITH LOCAL CODE.
- 10. THE PLUMBER WILL INSTALL COMPLETE AND MAKE FINAL HOOK-UP TO THE FOLLOWING DENTAL EQUIPMENT, SUPPLIED BY THE DOCTOR AND/OR BENCO DENTAL, INCLUDING, BUT NOT LIMITED TO:
 - AIR COMPRESSORVACUUM PUMP
 - AIR/WATER SEPARATORSWATER CONTROL VALVE AND FILTER ASSEMBLY
- 11. AN ELECTRIC MASTER WATER CONTROL VALVE AND FILTER ASSEMBLY IS REQUIRED FOR ANY/ALL COLD WATER LINES FEEDING ALL DENTAL EQUIPMENT. THIS WATER CONTROL VALVE AND FILTER ASSEMBLY IS REQUIRED WHETHER SUPPLIED BY BENCO, THE DOCTOR, OR THE PLUMBER. THE PLUMBER IS TO VERIFY THE EXACT LOCATION OF THE WATER CONTROL VALVE AND FILTER ASSEMBLY WITH THE DOCTOR/OWNER, AND A BENCO REP AT THE TIME OF LAYOUT AND PRIOR TO EQUIPMENT SELECTION.
- 12. THE PLUMBER WILL COMPLY WITH ALL BENCO INSPECTIONS, AS NOTED IN THE GENERAL NOTES ON THE FIRST PAGE OF THESE DOCUMENTS.
- 13. GENERAL DENTAL PLUMBING LINES SHOWN ARE FOR GRAPHICALLY DISPLAYING ORIGINATION AND TERMINATION POINTS. FIELD CONDITIONS MAY ALTER PLUMBING LINE LAYOUT, PER PLUMBERS DISCRETION. THE FINAL LAYOUT OF THE PLUMBING LINES IS THE RESPONSIBILITY OF THE PLUMBER.
- 14. THE APPLICATION OF DRIVE GAS (NFPA, 2012, 99.5.3.7, AS THIS IS NOT CONSIDERED NFPA "AIR") AS NOTED ON THIS PLAN IS NOT USED FOR LIFE—SUPPORT PURPOSES SUCH AS RESPIRATORS, IPPB MACHINES, ANALGESIA, ANESTHESIA, AND SO FORTH.
- 15. NFPA, 2012, 99.5.3.8 VACUUM PIPING
- 16. NFPA, 2012, 99.5.3.8 SCAVENGING PIPING

NFPA LEGEND					
SYMBOL	NFPA 2012/2015	NFPA 2018			
O=OXYGEN	99.5.3.6	99.15.4.4.2			
N=NITROUS OXIDE	99.5.3.6	99.15.4.4.2			
S=SCAVENGING	99.5.3.8	99.15.4.4.4			
V=VACUUM	99.5.3.8	99.15.4.4.4			
D=DRIVE GAS/ DENTAL AIR	99.5.3.6	99.15.4.3.3.2 99.15.4.4.3			
W=W.A.G.D.	99.5.3.8	99.15.3.2.1.5			

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	2012	2015	2018
MED GAS PIPING, BRAZING, & TESTING	99.5.3.6	99.5.3.6	99.15.4
MED GAS STORAGE	99.11.3	99.11.3	99.11.3
MED GAS STORAGE VENTILATION NATURAL: MECHANICAL:	99.9.3.6.5.2 99.9.3.6.5.3	99.9.3.6.5.2 99.9.3.6.5.3	99.9.3.6.5.2 99.9.3.6.5.3
CATEGORY 3 DRIVE GAS	99.5.3.7	99.5.3.7	
DENTAL AIR			99.15.4.3.3.2
CATEGORY 3 VACUUM	99.5.3.8	99.5.3.8	
DENTAL VACUUM			99.15.4.3.3.3
CATEGORY 3 SCAVENGING	99.5.3.8	99.5.3.8	
NITROUS OXIDE SCAVENGING			99.15.4.3.3.4

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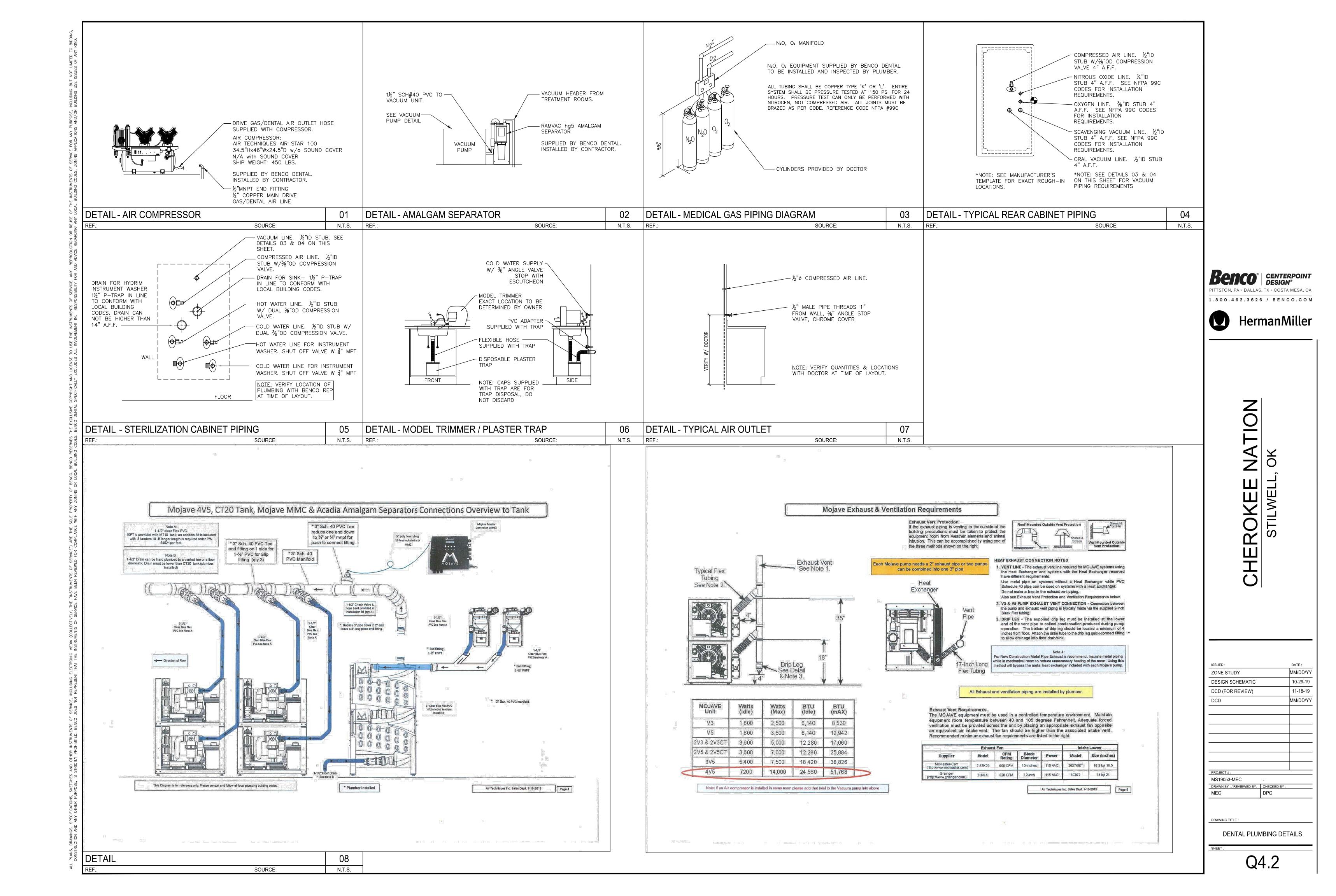
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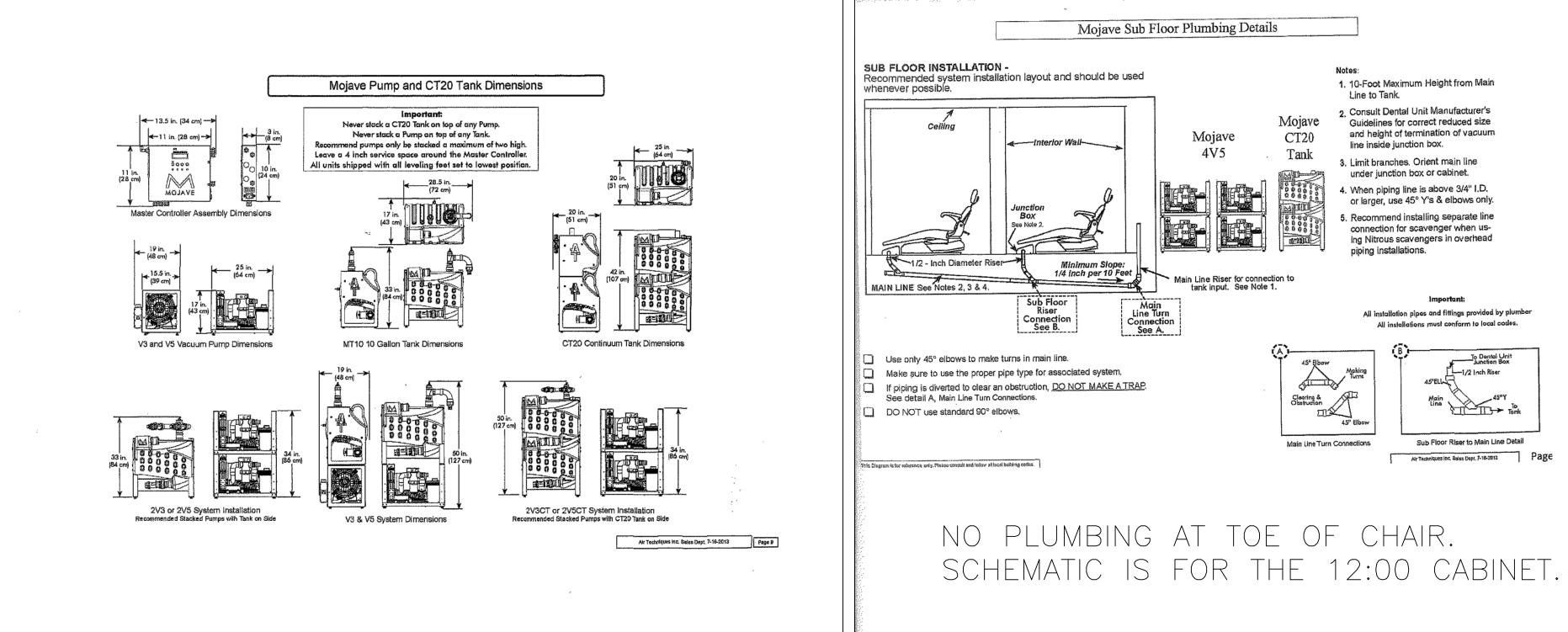
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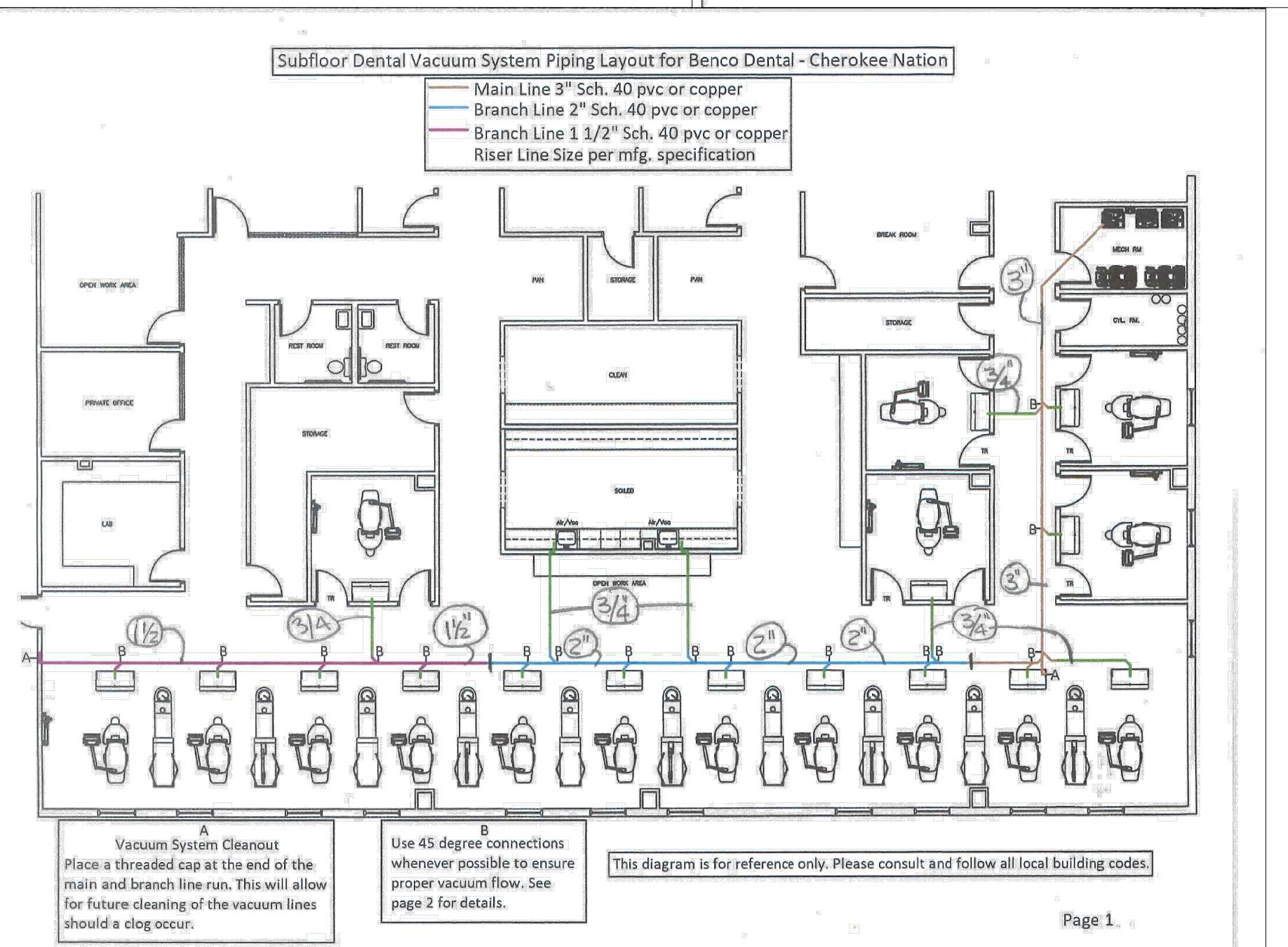
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DENTAL PLUMBING PLAN

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DENTAL PLUMBING DETAILS

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