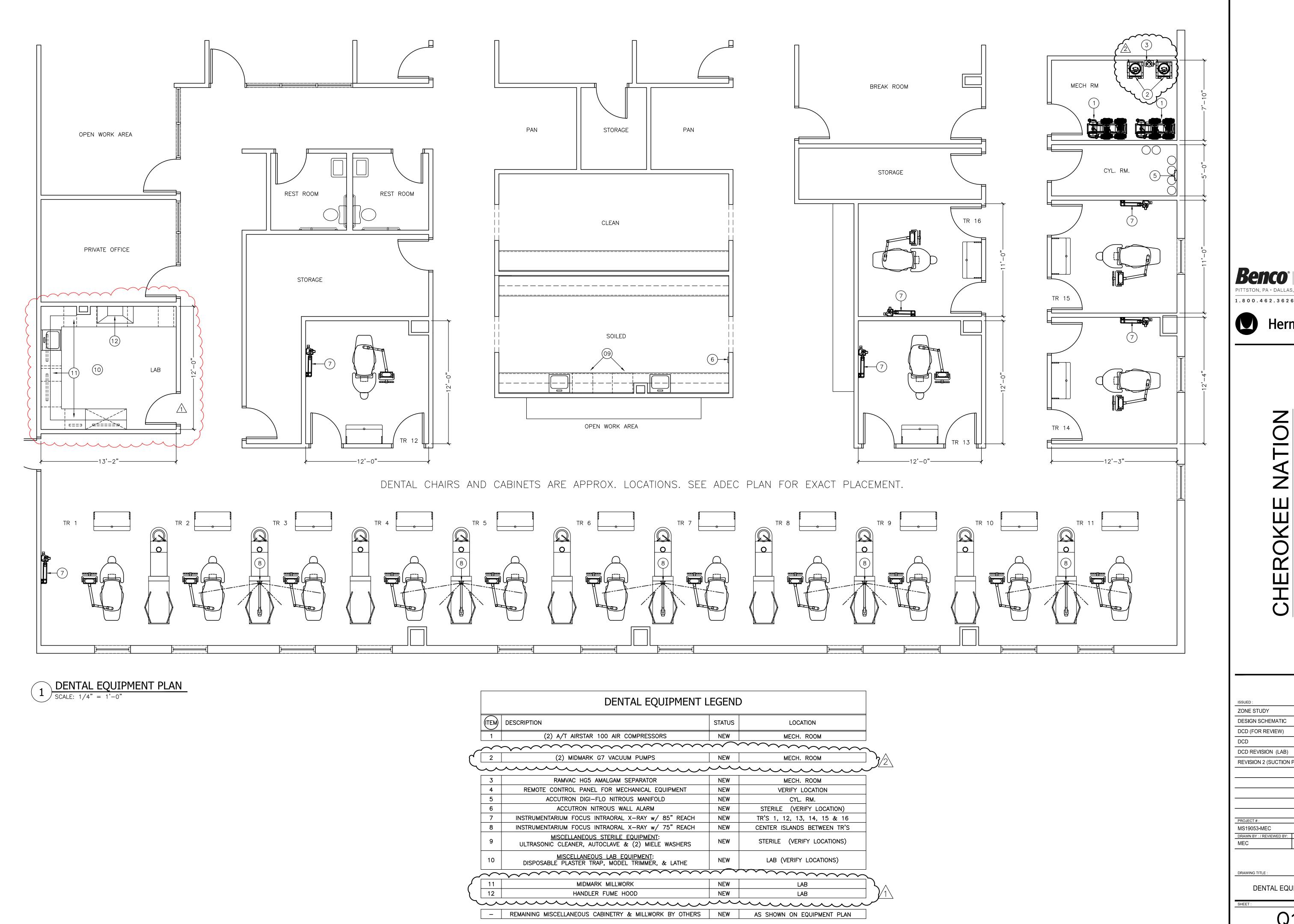
Benco Dental Prepared for:

Cherokee Nation Wilma P. Mankiller Clinic Stilwell, Oklahoma

Presented by:

Interior Logistics 1316 E. 35th Pl. Tulsa, OK 74105 (918) 382-9120





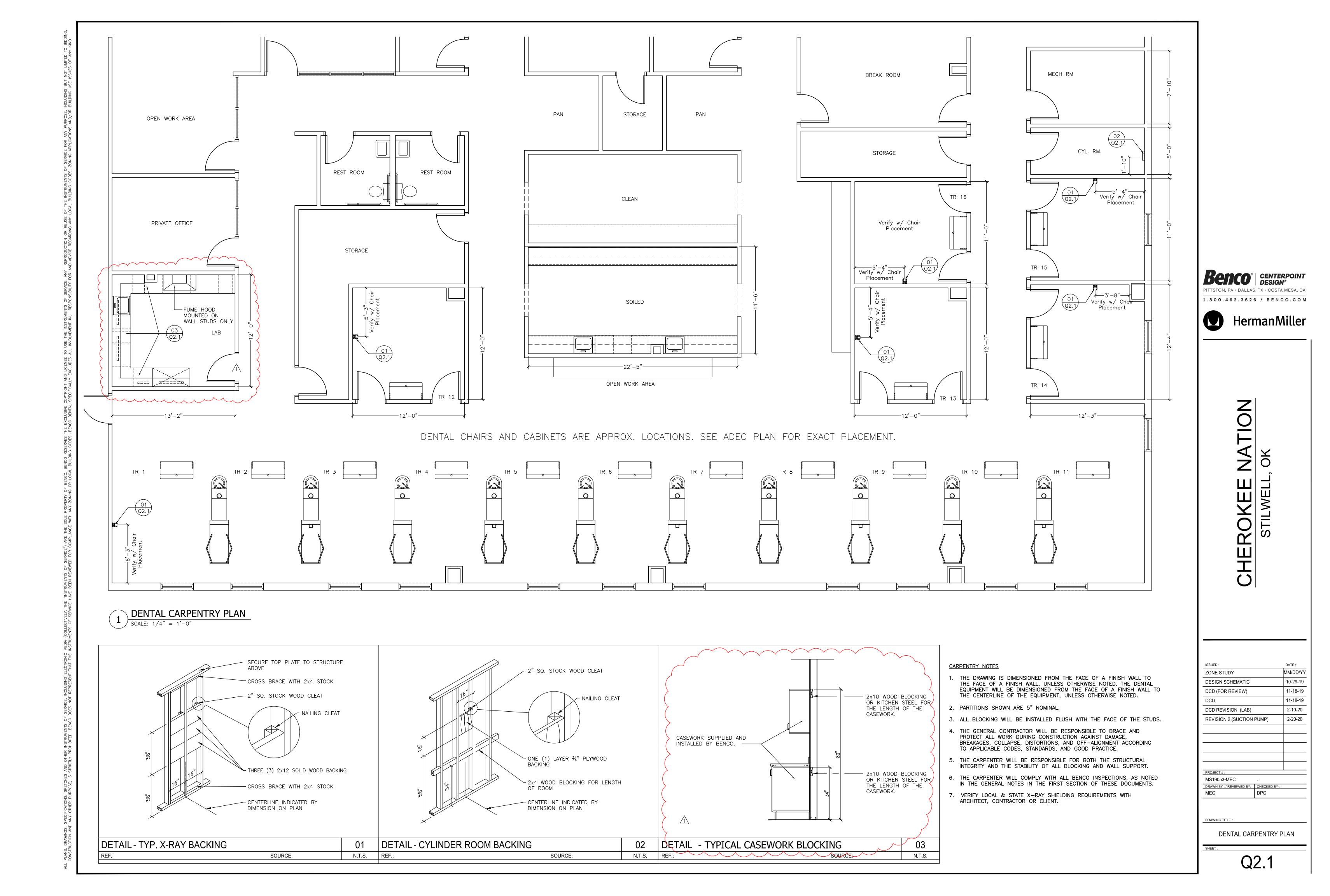
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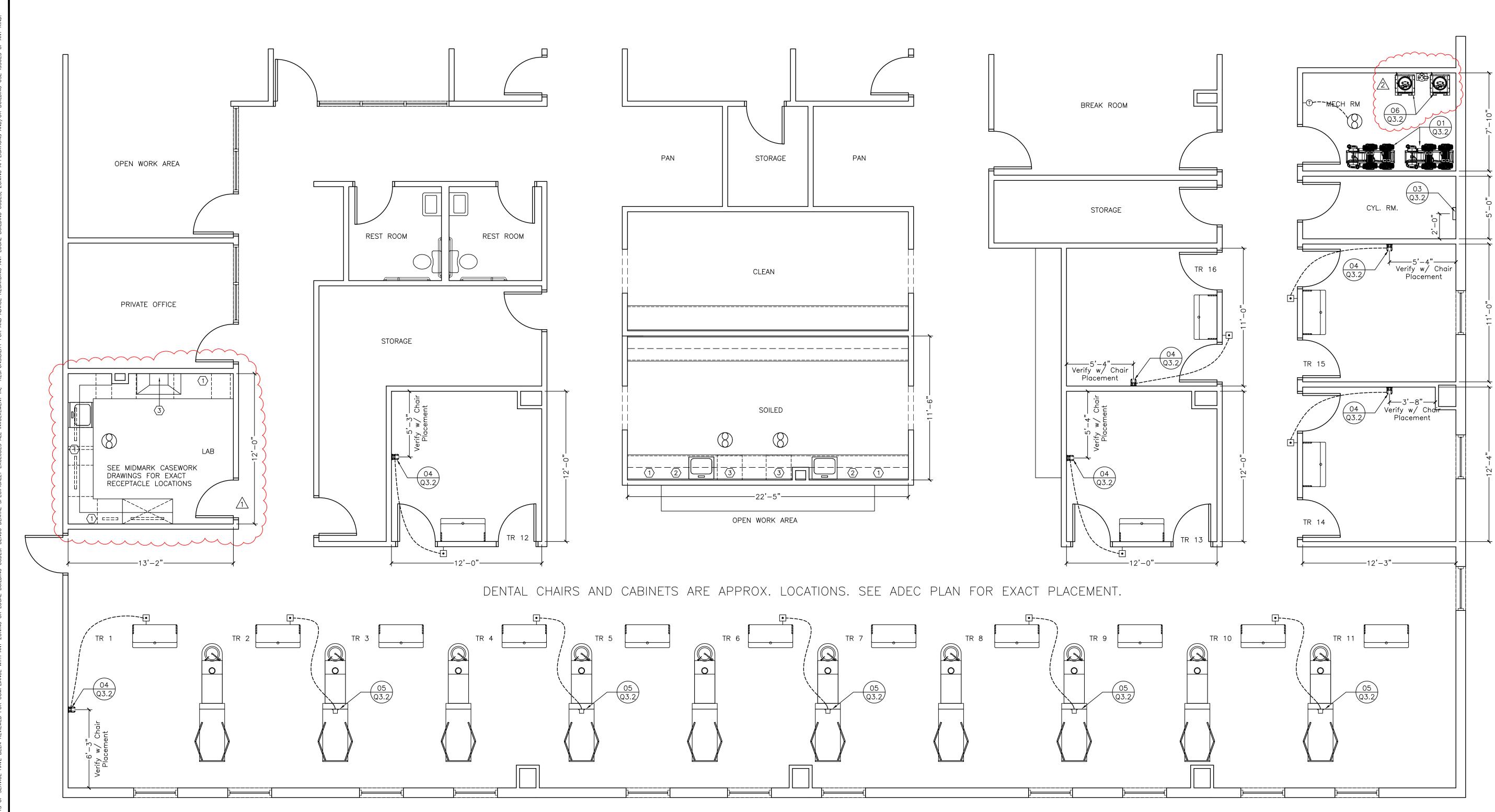
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DENTAL EQUIPMENT PLAN

Q1.1





1 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 COMPRESSORVACUUM PUMP
- WATER CONTROL VALVE - CONTROL PANEL
- 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.
- 3 HANDLER 236 FUME HOOD PROVIDE 115V 15A POWER SUPPLY

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

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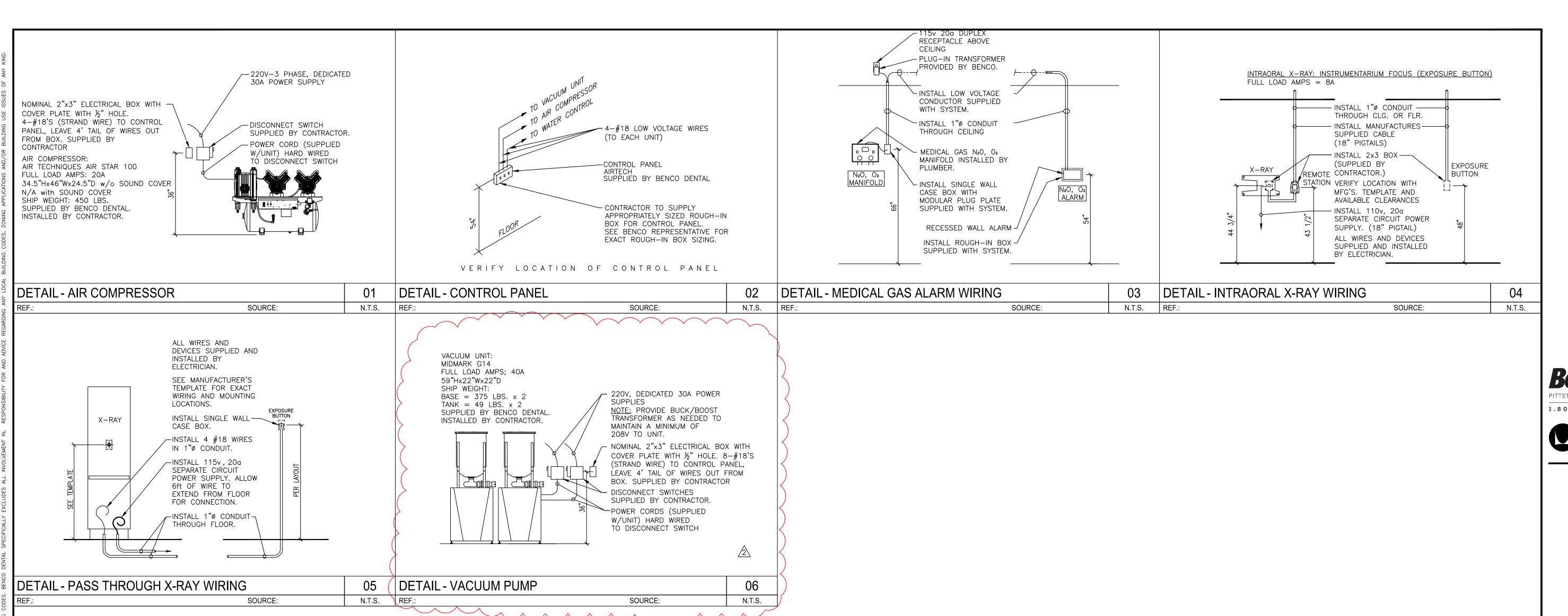


CHEROKEE NATION

AWING TITLE :

DENTAL ELECTRICAL PLAN

Q3.²





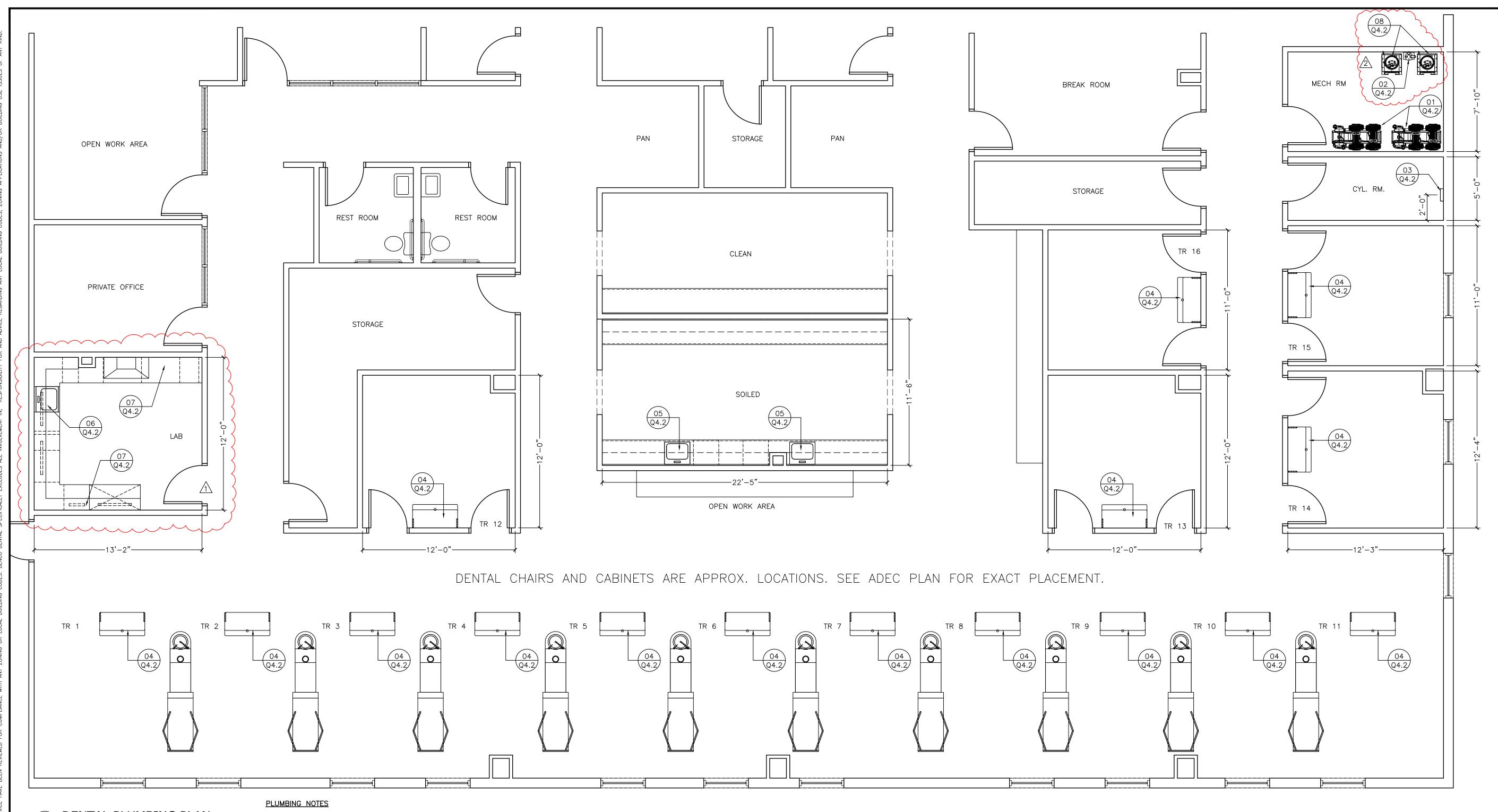


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DCD		11-18-19
DCD REVISION (LAB)		2-10-20
REVISION 2 (SUCTION PUMP)		2-20-20
PROJECT#:		•
MS19053-MEC	-	
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DENTAL ELECTRICAL DETAILS

Q3.2



DENTAL PLUMBING PLAN $\int SCALE: 1/4" = 1'-0"$

MEDICAL GAS NOTES (IF APPLICABLE)

- I. 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 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
- 3. FOLLOW NFPA 2012, 5.3.6. MED GAS PIPING & BRAZING
- 4. MEDICAL GAS CLOSETS NEED TO FOLLOW:

ALLOWED UNDER SLAB)

- 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 2012, 99.11.3
- 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.)

- 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.
- SLAB (AS PER NFPA 2012, 2015 & 2018, WITHIN SLAB IS 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.
- BY ASSE 6010 MED GAS PLUMBER FOR INSTALLATIONS & 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 COMPRESSOR VACUUM PUMP
 - AIR/WATER SEPARATORS - WATER 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

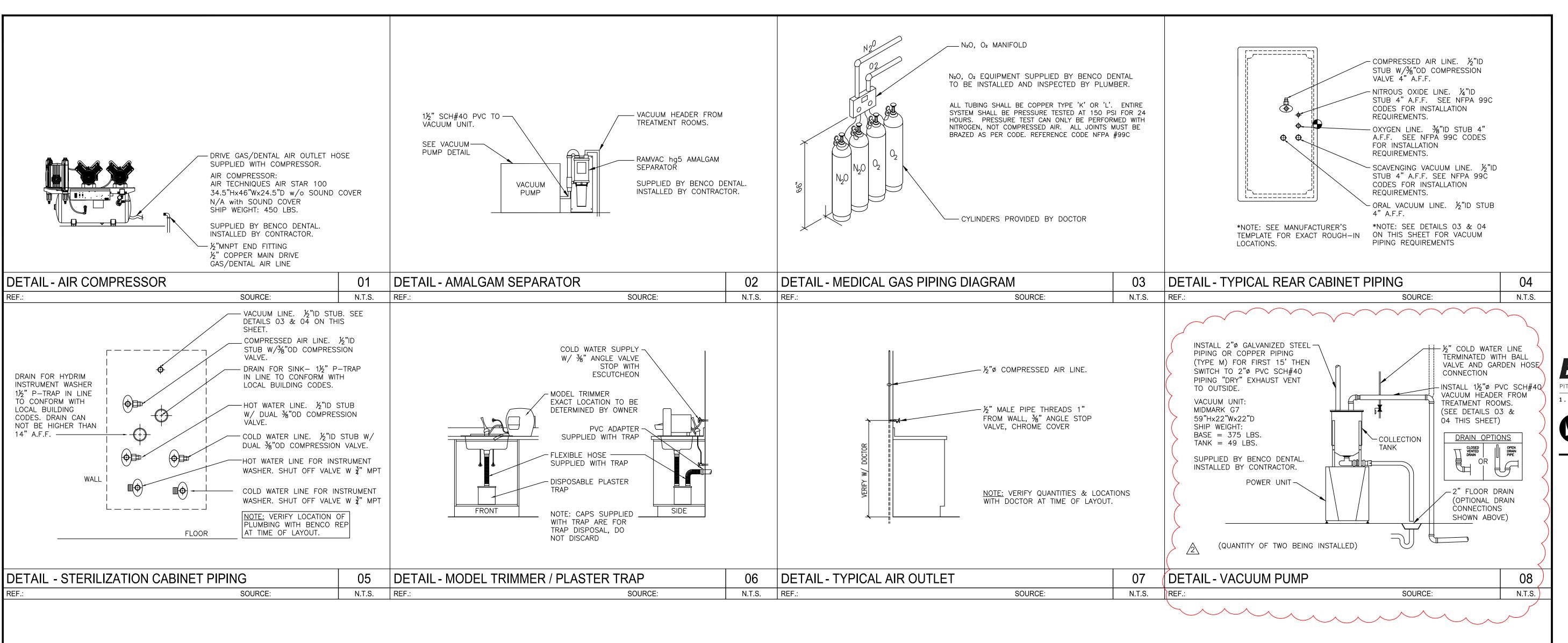
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	2012	2015	2018
MED GAS PIPING, BRAZING, & TESTING	99.5.3.6	99.5.3.6	99.15.4
MED GAS STORAGE	99.11.3	99.11.3	99.11.3
MED GAS STORAGE VENTILATION NATURAL: MECHANICAL:	99.9.3.6.5.2 99.9.3.6.5.3	99.9.3.6.5.2 99.9.3.6.5.3	99.9.3.6.5.2 99.9.3.6.5.3
CATEGORY 3 DRIVE GAS	99.5.3.7	99.5.3.7	
DENTAL AIR			99.15.4.3.3.
CATEGORY 3 VACUUM	99.5.3.8	99.5.3.8	
DENTAL VACUUM			99.15.4.3.3.
CATEGORY 3 SCAVENGING	99.5.3.8	99.5.3.8	
NITROUS OXIDE SCAVENGING			99.15.4.3.3.

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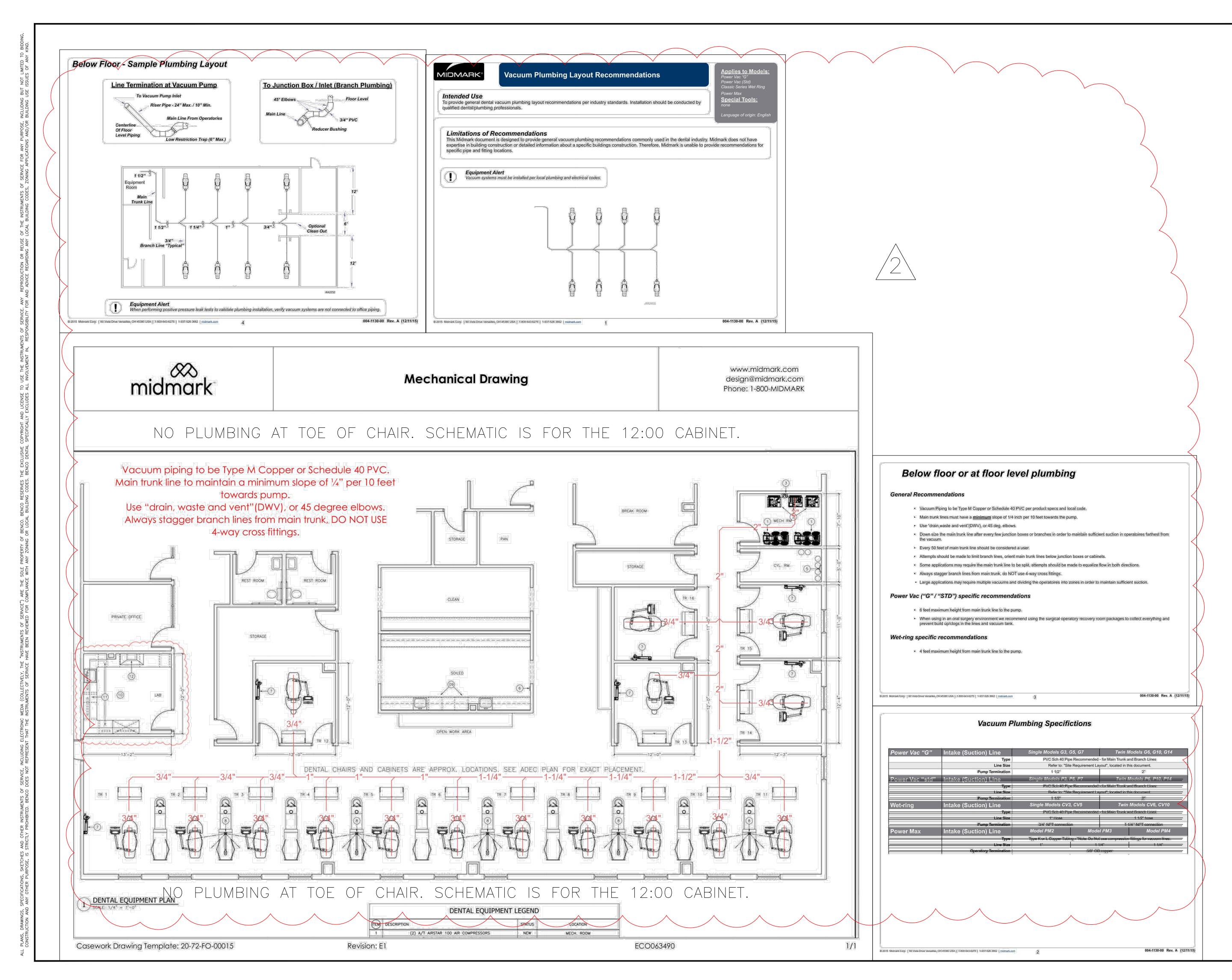


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DENTAL PLUMBING DETAILS

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DENTAL PLUMBING DETAILS

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