DOCUMENT 00 90 00 ADDENDUM

ADDENDUM No.: 2

DATE: October 22, 2024

RE: WESTERN TECHNICAL COLLEGE

HEALTH SCIENCE CENTER DENTAL RENOVATION

1300 BADGER ST

LA CROSSE, WISCONSIN 54601

PROJECT NO. 24030

FROM: HSR Associates, Inc.

100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated October 2024. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 2 pages, 1 document, 2 sections, and 3 drawings.

DOCUMENTS

1. Document PRE-BID MEETING SIGN IN SHEET

CHANGES TO SPECIFICATIONS:

- 2. Section 06 41 00 Architectural Wood Casework
 - a. See the revised section included in this addendum. Disregard the previous version.
 - b. Revised paragraph 2.07 F to require lever operated lock on shelf slides and to specify specific model Accuride 3608.
- 3. Section 09 51 00 Acoustical Ceilings
 - a. See the revised section included in this addendum. Disregard the previous version.
 - b. Listed USG brand products following a substitution request. See changes in 2.01 A.2, 2.01 B.2. and 2.02 B.4.

CHANGES TO DRAWINGS

- 4. Sheet P000 GENERAL NOTES 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Added General Plumbing Notes item #33, which states, "Final Connections to Plumbing Fixtures and Equipment to be done by Plumbing Contractor."

5. Sheet E200 ELECTRICAL POWER PLAN 30"x42"

- a. See the revised sheet included in this addendum. Disregard the previous version.
- b. Provide a twenty amp, 2-pole branch circuit for equipment #20 located in Dental Assistant Lab #0002. Refer to bubbled change
- c. General Note 'D' has modified to include the Electrical Contractor is responsible to make 'Final Connections' to Patterson/Aidec provided equipment. Refer to bubbled change.

6. Sheet E201 OVERALL BASEMENT POWER & LOW VOLTAGE PLAN 30"x42"

- a. See the revised sheet included in this addendum. Disregard the previous version.
- b. Change Panelboard 'A' from 54 spaces to 72 spaces. Refer to bubbled change.
- c. Provide a 20/2 circuit breaker for equipment #20 in panelboard 'A'. Refer to bubbled change.

RESPONSES TO BIDDER QUESTIONS

7. Bidder Question:

- a. Question: Are non-prequalified plumbing, mechanical, and electrical contractors allowed to bid on this work?
- b. Response: Refer to Section 00 22 13 item 4.1.9. "Prime contractor bidders are required to pre-qualify to bid using the Owner's pre-qualification process prior to submitting bid." There is not a requirement for lower tier subcontractors and suppliers to pre-qualify using the Owner's process.

8. Bidder Question:

- a. Question: X-Ray 1017 (Base Bid): Only work taking place in this area is the installation of CBCT imaging unit in wall, correct?
- b. Response: Yes, that is correct.

9. Bidder Question:

- a. Question: Alternate 2 Sterilizing Room: Is this new casework provided and installed by Patterson Dental as well? Or just base bid?
- b. Response: The base bid includes sterilizing room casework and associated fixtures via the Owner's separate contract with Patterson Dental. Alternate 2 includes casework and associated fixtures by the Contractor.

END OF DOCUMENT 00 90 00



Pre-Bid Meeting Sign-In Sheet

October 15, 2024

PROJECT:

WESTERN TECHNICAL COLLEGE

HEALTH SCIENCE CENTER DENTAL RENOVATION 1300 BADGER ST **LA CROSSE, WI 54601 HSR PROJECT NO. 24030**

BID OPENING: 2:00 PM, October 15, 2024

Name	Company
1. Alyssa Frank	HSR Associates
2. Gene McCordy	WIC
3. MATT LANGE	KNUTSON
4. Europealt	Knutson
5. ROSS DOMOVAN	BAB
6. GRANT SCHULTZ	SAS MECH.
7. Kyle Thesing	Kish Electi
8. MILLE ACLES &	Foultr & HAMMER
9. Steve Elsen	Poellinger Electric
10. Ty ker Richling	Farler & Hanna
11. Caleb Carpealer	Borton
12. Hunter Guss	Wieser Brothers
13. B.11 HUFF	M:J
14. FRIX SWENSON	HUNT ELEC
15. Kai Rodges	AHERN Krodges@jfahern.com
16.	
17.	
18.	
19.	

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SECTION 06 41 00 ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Specially fabricated cabinet units.
- B. Hardware.
- C. Preparation for installing utilities.

1.02 RELATED REQUIREMENTS

- A. Applicable provisions of Division 1 govern the work of this section.
- B. Section 06 10 00 Rough Carpentry: Support framing, grounds, and concealed blocking.
- C. Section 07 92 00 Joint Sealants.
- D. Section 12 36 00 Countertops.
- E. Division 22 Required plumbing fixtures and connections.
- F. Division 26 Required electrical fixtures and connections.

1.03 REFERENCE STANDARDS

- A. ANSI A208.1 American National Standard for Particleboard; 2022.
- B. ANSI A208.2 Medium Density Fiberboard (MDF) for Interior Applications; 2022.
- C. ANSI A208.1 American National Standard for Particleboard; 2022.
- D. ANSI A208.2 Medium Density Fiberboard (MDF) for Interior Applications; 2022.
- E. AWI/AWMAC/WI (AWS) Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- F. AWMAC/WI (NAAWS) North American Architectural Woodwork Standards; 2021, with Errata.
- G. BHMA A156.9 Cabinet Hardware; 2020.
- H. NEMA LD 3 High-Pressure Decorative Laminates; 2005.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements for procedures.
- B. Review Submittals Preparatory:
 - Provide submittal packages that contain all the information identified in the submittal groups identified below. Follow any instructions regarding coordinating submittal timing between submittals of different sections.
 - Submitter may combine submittals from this section and Section 12 36 00.
 - Shop Drawings: Indicate materials, component profiles and elevations of casework layout, assembly methods, joint details, fastening methods, accessory listings, rough-in locations, hardware location and schedule of finishes. Show details of countertop construction including backsplash, end splash and edge details, and type of substrate core material.
 - Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
 - Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
 - Product Data: Provide data for hardware accessories.
- C. Review Submittals Samples:
 - Samples: Plastic laminate surfacing in manufacturer's standard colors.
 - Samples: PVC edge banding representative of color/pattern, material and shape.
 - Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.
- D. Information Submittals Preparatory:
 - Certificate: Submit labels and certificates required by quality assurance and quality control programs.

- E. Maintenance Materials:
 - 1. Document delivery of required maintenance materials to Owner.

1.05 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
 - 1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Protect units from moisture damage.

1.07 FIELD CONDITIONS

A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

1.08 WARRANTY REQUIREMENTS

- A. See Section 01 78 00 Closeout Submittals for additional information regarding documenting warranties.
- B. Manufacturer's standard form in which manufacturer agrees to repair or replace components of manufactured wood casework that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Delamination of components or other failures of glue bond.
 - b. Warping of components.
 - c. Failure of operating hardware.
 - d. Deterioration of finishes.
- C. Correct defective Work within a one year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 CABINETS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

2.02 PANEL CORE MATERIALS

- Particleboard: Composite panel composed of cellulosic particles, additives, and bonding system; comply with ANSI A208.1.
 - 1. Use: Countertops and Backsplash.
 - 2. Classification: Medium density Industrial.
 - 3. Grade: M-2; moisture resistance: MR10.
 - Panel Thickness: As Indicated.
- B. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and pressure; comply with ANSI A208.2.
 - 1. Use for components not indicated as another material and as backing for plastic laminate unless otherwise indicated.
 - 2. Grade: 115; moisture resistance: MR10.
 - 3. Panel Thickness: As Required.
 - 4. Surface: Sanded.

2.03 LUMBER MATERIALS

A. Cabinet Rib Materials, Base Frames and Kicks: Kiln dried hardwood or softwood with a moisture content of 5-10% or 3/4" APA B-B G-2 Exp 1 exterior plywood. Construction lumber (s-dry) not allowed.

2.04 LAMINATE MATERIALS

- A. Manufacturers: Refer to Master Color Schedule on ID Drawings for basis of design.
 - 1. Formica Corporation: www.formica.com.

- 2. Panolam Industries International, Inc: Including brands Panolam, Nevemar and Pionite; www.panolam.com.
- 3. Wilsonart LLC: www.wilsonart.com.
- 4. Substitutions: See Section 01 25 00 Substitution Procedures for requirements.
- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- C. Provide specific types as indicated.
 - Horizontal Surfaces: HGS, 0.048 inch nominal thickness, through color, color as selected, finish as indicated.
 - 2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, color as selected, finish as indicated.
 - 3. Post-Formed Horizontal Surfaces: HGP, 0.039 inch nominal thickness, through color, color as selected, finish as indicated.
 - 4. Post-Formed Vertical Surfaces: VGP, 0.028 inch nominal thickness, through color, color as selected, finish as indicated.
 - 5. Cabinet Liner: CLS, 0.020 inch nominal thickness (melamine), color as selected, finish as selected.
 - 6. Laminate Backer: BKL, 0.020 inch nominal thickness (melamine), undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

2.05 COUNTERTOPS

A. Countertops: See Section 12 36 00 - Countertops.

2.06 ACCESSORIES

- A. Plastic edge banding:
 - Plastic edge banding at door, drawer, all face frames and other locations not otherwise indicated:
 - a. Extruded 0.018 inch PVC, flat shaped; smooth finish; of width to match component thickness.
 - b. Pattern/Color: As selected by Architect from manufacturer's full range.
- B. Fasteners: Size and type to suit application.
- C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- D. Concealed Joint Fasteners: Threaded steel.

2.07 HARDWARE

- A. Hardware: BHMA A156.9, types as indicated for quality grade specified.
- B. Configuration: Pedestal supported with wood bench top and backrest.
- C. Drawer and Door Pulls: U-shaped 4" centers.
 - 1. Material: Stainless Steel.
 - 2. Finish: Brushed Chrome Finish.
 - 3. Products:
 - a. Hafele: Handle, Stainless Steel 304; www.hafele.com.
 - b. Rockwood: 853; www.assaabloydooraccessories.us.
 - c. Sugatsune: SWP-696/S Stainless Steel Wire Pull; www.sugatsune.com.
- D. Cabinet Locks: Surface mount deadbolt or cam lock with keyed cylinder 5 pin tumbler, two keys per lock, master keyed, steel with chrome finish steel with satin finish. Coordinate any required grouping with owner and adjust master key quantities as required.
 - 1. Products:
 - a. Compx National 8050 Series Disc Tumbler. www.compx.com.
 - b. Olympus. www.olympus-lock.com.
 - c. Substitutions: See Section 01 25 00 Substitution Procedures for requirements.

E. Latches and Catches:

- 1. Type: Magnetic Catch:
 - a. Non-Tabbed Magnetic Catch:
 - Install one at base and wall cabinets, two (top and bottom) at each door of tall storage units.
 - 2) Products:
 - (a) Ives; 326 Magnetic Catch, dual double pole; us.allegion.com.
 - (b) Rockwood Pull; Rockwood 900 Heavy Duty Magnetic Catch: www.rockwoodpull.com.
 - (c) Substitutions: See Section 01 25 00 Substitution Procedures for requirements.
- 2. Elbow Latches:
 - Install at double doors with locks.
 - b. Products:
 - 1) Ives: Ives #2 Elbow Latch; www.iveshinges.com.
 - 2) EPCO: Heavy Duty Elbow Latch; www.epcohardware.com.
 - 3) Substitutions: See Section 01 25 00 Substitution Procedures for requirements.

F. Drawer Slides:

- 1. Type: Combination metal and roller bearing, three-quarter extension.
- 2. Drawers: Combination metal and roller bearing, full extension with over travel, 150 lb. Accuride 4034 Series or comparable.
- 3. Shelf Slides: Combination metal and roller bearing, full extension with over travel, lever operated lock open and closed, 275 lb. Accuride 3608 or comparable by prior approval.
- 4. Mounting: Side mounted.
- 5. Stops: Integral type.
- 6. Features: Provide stay close type.
- 7. Manufacturers:
 - a. Accuride International, Inc: www.accuride.com.
 - b. Blum: www.blum.com.
 - c. Fulterer; www.fultererusa.com.
 - d. Knape & Vogt Manufacturing Company: www.knapeandvogt.com.
 - e. Substitutions: See Section 01 25 00 Substitution Procedures for requirements.
- G. Hinges: 5 knuckle type, institutional style, hospital tipped, stainless steel with satin finish.
 - 1. Manufacturers:
 - a. Blum, Inc: www.blum.com.
 - b. Rockford Process Control (RPC): www.rockfordprocess.com.
 - c. Hardware Resources: www.hardwareresources.com.
 - d. Substitutions: See Section 01 25 00 Substitution Procedures for requirements.

2.08 SUPPORTS AND BRACKETS

- A. In-Cabinet Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, satin chrome finish, for nominal 1 inch spacing adjustments.
 - 1. Products: #55 Double Pin manufactured by Allenfield Manufacturing and Development.
 - a. #55 Double Pin manufactured by Allenfield Manufacturing and Development.
 - b. Shelf Support Clip #3220CL from Bainbridge Manufacturing Inc.
 - c. Substitutions: See Section 01 25 00 Substitution Procedures for requirements.
- B. Formed/Bent Plate Countertop and Workstation Brackets: Fixed, formed plate, face-of-wall mounting.
 - 1. Materials:
 - a. Formed steel shapes:
 - 1) Finish: Manufacturer's standard, factory-applied, powder coat.
 - 2) Color: selected by A/E from manufacturer's standard options.

2. Dimensions:

- a. Support Length:
 - Select the largest support from the manufacturer's standard options that doesn't exceed the width of the supported panel and doesn't interfere with edge detailing of the supported panel.
- b. Height: Manufacturer's standard height corresponding to support length.
- c. Width: Manufacturer's standard width corresponding to support length.
- 3. Configuration:
 - a. Provide bracket with gap at upper corner for cable routing.
- 4. Products:
 - a. A&M Hardware, Inc; Standard Brackets: www.aandmhardware.com.
 - b. Gambas Workstation Brackets: Standard Brackets: www.gambasbrackets.com.
 - c. Rockler: Heavy-Duty Steel Shelf Brackets: www.rockler.com.
 - d. Substitutions: See Section 01 25 00 Substitution Procedures for requirements.

2.09 FABRICATION

- Cabinet Style: Flush overlay.
- B. Base Cabinets:
 - Construct in accordance with AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, Custom quality.
- C. Wall Cabinets:
 - 1. Underside of wall cabinets shall be Type "C" flush with finish applied after assembly.
 - 2. Provide manufacturer's standard construction to reinforce cabinets for wall attachment, minimum two, full width 3/4 inch thick x 3 inch, glued and mechanically fastened at cabinet back.
- D. Drawers:
 - 1. Joinery: dovetail or doweled.
 - 2. Bottoms and Sides: 1/2 inch Veneer core panel product, "B" face hardwood veneer or 1/2 inch medium density fiberboard with thermoset decorative overlay. PVC edge banding at exposed edges.
 - 3. Bottoms shall be dadoed into sides, front and back. Staple and glue.
 - 4. Reinforcement; 1/2 inch thick under-bottom stiffeners, one at 24 inch drawers, two at 36 inch drawers and four at 48 inch drawers.
 - 5. File drawers shall be sized to accommodate a follower mechanism or use of hanging folders. Selection to be confirmed by A/E.
- E. Tall Storage Units:
 - 1. Center shelf shall be fixed to allow for installation of lock where applicable.
- F. HDPL Veneer Shelves:
 - Provide 3/4 inch thick shelves unless noted otherwise on drawings or to satisfy span limits described below.
 - 2. Shelf spans for 3/4 inch thick shelf panels:
 - a. Particle Board 1-M-2: Maximum span 36 inches.
 - b. Medium Density Fiberboard: Maximum span 36 inches.
 - 3. Shelf spans for 1 inch thick shelf panels:
 - a. Particle Board 1-M-2: Maximum span 44 inches.
 - b. Medium Density Fiberboard: Maximum span 44 inches.
 - 4. Shelf Veneer Material: HDPL at top and bottom of panels unless noted otherwise.
 - 5. Shelf Edge Material: PVC banding that is pattern/color matched to the veneer unless noted otherwise.
 - 6. Enclosed Shelves: Finish to match inside faces of cabinet. Fabricate all shelves to the full depth of the cabinet. Finish edges with banding at surfaces exposed when the doors are open.
 - 7. Non-enclosed Shelves Finish all edges with banding if not otherwise indicated.

- G. HDPL Veneer Shelf Slides:
 - 1. Provide 1/2 inch thick HDPL cap panel.
 - 2. Provide 1 inch minimum supporting panel.
 - 3. Provide stiffening ribs.
 - 4. See A400 for additional requirements.
- H. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- I. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- J. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- K. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners.
 - 1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
 - 2. Cap exposed plastic laminate finish edges with material of same finish and pattern.
- L. Mechanically fasten back splash to countertops with steel brackets at 16 inches on center.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- E. Secure cabinets to floor using appropriate angles and anchorages.
- F. Coordinate placement of fixtures and items required in other divisions.
- G. Where casework meets wall surfaces, set with uniform space not to exceed 1/8 inch. Seal all joints to a slightly concave joint. Use backer rod where required. Refer to Section 07 92 00 for sealant type.

3.03 ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

SECTION 09 51 00 ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Suspended metal grid ceiling system.
- B. Acoustical units.

1.02 RELATED REQUIREMENTS

- A. Applicable provisions of Division 1 govern the work of this section.
- B. Mechanical Supply and Return Devices Division 26.
- C. Electrical Light Fixtures Division 26.

1.03 REFERENCE STANDARDS

- A. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- B. ASTM C635/C635M Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2022.
- C. ASTM E1264 Standard Classification for Acoustical Ceiling Products; 2023.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements for procedures.
- B. Review Submittals Preparatory:
 - Product Data: Provide data on suspension system components and acoustical units.
- C. Review Submittals Samples:
 - Samples: Submit two samples 12 by 12 inch in size illustrating material and finish of acoustical 1. units.
- D. Maintenance Materials:
 - Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - a. See Section 01 60 00 Product Requirements, for additional provisions.
 - b. Extra Acoustical Units: Quantity equal to 5 percent of total installed.

1.05 QUALITY ASSURANCE

A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.06 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acoustic Tiles/Panels:
 - Armstrong World Industries, Inc: www.armstrongceilings.com. 1.
 - USG Corporation: www.usg.com/ceilings.
- B. Steel Suspension Systems:
 - 1. Armstrong World Industries, Inc: www.armstrongceilings.com.
 - USG Corporation: www.usg.com/ceilings. 2.
 - Substitutions: See Section 01 25 00 Substitution Procedures for requirements.

2.02 ACOUSTICAL UNITS

A. Acoustical Units - General: ASTM E1264, Class A.

- B. BOARD TYPE ACT-2: 2'x2' Tegular, Min NRC.70:
 - 1. Angled Tegular 15/16.
 - 2. NRC.:70.
 - 3. CAC: 35.
 - 4. Texture: Fine Fissured (including USG Radar pattern)

2.03 SUSPENSION SYSTEM(S)

- A. Metal Suspension Systems General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, and perimeter moldings as required.
 - Materials:
 - a. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated.
 - 2. Configuration: Exposed T-shaped grid.
 - 3. Width: 15/16".

2.04 ACCESSORIES

- Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
- B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.
- C. Perimeter Moldings: Same metal and finish as grid.
 - 1. Angle Molding: L-shaped, for mounting at same elevation as face of grid.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.

3.02 INSTALLATION - SUSPENSION SYSTEM

- A. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- B. Locate system on room axis according to reflected plan.
- C. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 - 1. Use longest practical lengths.
 - 2. Miter corners.
- D. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- E. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- F. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- G. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- H. Do not eccentrically load system or induce rotation of runners.

3.03 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

- E. Cutting Acoustical Units:
 - 1. Cut to fit irregular grid and perimeter edge trim.
 - 2. Make field cut edges of same profile as factory edges.
- F. Where round obstructions occur, provide preformed closures to match perimeter molding.
- G. Provide tegular edge at walls and other abutting vertical surfaces. Field paint cut edges to surface color and sheen.

END OF SECTION

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PLUMBING FIXTURE SCHEDULE TRIM PIPE CONNECTIONS										SPECIFICATIONS				
					IK	IIVI	CANITADY	SANITARY		COLD WATER	COLD WATER		HOT WATER CONNECTOR	SPECIFICATIONS
FIXTURE SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	MANUFACTURER	MODEL NO.	ROUGH-IN PIPE DIAMETER	CONNECTOR	PIPE DIAMETER	ROUGH-IN PIPE	CWFU	ROUGH-IN PIPE DIAMETER	HWFU	COMMENTS
AC-1	AIR COMPRESSOR	QUINCY	QGSV-20S-TMD	III CI ZI CI ZI									11111	
DW-1	DISHWASHER	BY OTHERS		STAINLESS STEEL			2"	4		1/2"	3	1/2"	1.4	
EEW-1	EMERGENCY EYE WASH	BRADLEY	S19-465EFW					0			0		0	
S-1	SINK - SINGLE	ELKAY	LRAD151765PD-MR2	STAINLESS STEEL	DELTA	1903-DST	1 1/2"	1	1 1/2"	1/2"	0.5	1/2"		SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE. SINGLE LEVER SWIVEL FAUCET. ONE ELKAY MODEL NO. LK35 BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS.
S-2	SINK - SINGLE	BY OTHERS		STAINLESS STEEL	BY OTHERS		1 1/2"	1	1 1/2"	1/2"	1	1/2"	1	
S-3	SINK - SINGLE	ELKAY	ELUHAD141455PD-MR2	STAINLESS STEEL	DELTA	1903-DST	1 1/2"	1	1 1/2"	1/2"	0.5	1/2"		SINGLE COMPARTMENT, ADA COMPLIANT, UNDERMOUNT, 18 GAUGE. SINGLE LEVER SWIVEL FAUCET. ONE ELKAY MODEL NO. LK35 BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS.

(1/2"-4") - LIGHT DUTY TYPE.

INSTALL B-LINE ARMAFIX — INSULATED PIPE SUPPORT CLAMP INSERTS WITH PAINTED ALUMINUM	B2000 SERIES PIPE CLAMP (3/8"-8")	B2000 SERIES PIPE CLAMP (3/8"-8")	B2400 SERIES PIPE CLAMP (1/2"-8")	B4000 SERIES PIPE CLAMP (1/2"-4")
JACKET & NON-SKID PIPE STRAPS. (AVAILABLE IN 1/2", 3/4", & 1" INSULATION THICKNESSES)				MAPLE CLAMP (PARAFFIN IMPREGNATED)
HORIZONTAL OR——> VERTICAL UNISTRUT PIPE SUPPORT			PIPE -	
INTEGRAL UR/PIP SUPPORTS			INSULA COLD V PIPING	WATER
	B3170 ADJUST/ SWIVEL (1/2"-8")			ECTION

PIPE SUPPORT DETAIL

FIXTURE UNIT SUMMARY PIPE SIZE **FIXTURE UNITS** FIXTURE DESCRIPTION COUNT WASTE VENT CW HW DFU CWFU HWFU FIXTURE SYMBOL AIR COMPRESSOR DW-1 DISHWASHER 1/2" 1/2" 4 3 EEW-1 EMERGENCY EYE WASH 4 1 1/2" 1 1/2" 1/2" 1/2" 4 2 SINK - SINGLE 6 1 1/2" 1 1/2" 1/2" 1/2" 6 6 6 SINK - SINGLE SINK - SINGLE 1 1 1/2" 1 1/2" 1/2" 1 0.5 0.5 15 11.5 9.9 Grand total: 15

PLUMBING SHEET INDEX

ABBREVIATIONS:

COLD WATER FIXTURE UNIT DRAINAGE FIXTURE UNIT

HOT WATER FIXTURE UNIT

UNLESS OTHERWISE APPROVED BY OWNER.

BY THE OWNER'S REPRESENTATIVE.

CEILINGS UNLESS OTHERWISE INDICATED.

INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. DEVIATIONS FROM LOCATIONS OF PIPING INDICATED ON THE

DRAWINGS MAY HAVE TO BE MADE AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO CLEAR THE WORK OF THE OTHER TRADES. HOWEVER, ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF

. IT IS THE INTENT OF THESE DRAWINGS THAT EACH AFFECTED

SYSTEM BE COMPLETE, WORKING, TESTED, AND OPERATIONAL.

CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE

BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID

. INCLUDE ALL PLUMBING RELATED CUTTING. PATCHING AND/OR

REMOVAL AND REPLACEMENT OF EXISTING WALLS, FLOORS &

3. NO JOINTS SHALL BE INSTALLED IN UNDERFLOOR WATER PIPING.

5. ALL FIXTURE WATER SUPPLY FLOW RATES SHALL CONFORM TO SPS

5. DOMESTIC WATER PIPE SIZING SHALL CONFORM TO SPS 382.40(7),

FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS. . BACKFLOW PROTECTION SHALL BE PROVIDED TO ALL FIXTURES,

. EACH FIXTURE SHALL BE VALVED, CONFORMING TO SPS 382.40(4)(c)b.

TERMINATE WATER AND SANITARY LATERAL 5'-0" BEYOND EXTERIOR

FACE OF FOUNDATION WALL. CONTINUATION SHALL BE UNDER A

. UNLESS NOTED OTHERWISE ALL WASTE AND DRAIN PIPING 3" AND

LARGER SHALL BE INSTALLED AT A SLOPE OF 1/8" PER FOOT AND

MINIMUM OF 38" ABOVE THE FLOOR, CONFORMING TO SPS 382.31(15)

WASTE AND DRAIN, PIPING 2" AND SMALLER AT 1/4" PER FOOT. CONNECT VENT PIPING ABOVE THE CENTERLINE OF HORIZONTAL

DRAIN PIPING IN CONFORMANCE TO SPS 382.31(15)(b)1. 2. FIXTURE VENTS SHALL CONNECT TO OTHER BRANCH VENTS A

CONFORM TO SPS 384.40(14), WHEN APPLICABLE.

TO THE VALVE, CONFORMING TO SPS 384,30(5)(b)3.

THE INSTALLATION OF PVC DWV PIPING IN BUILDING SHALL

25. CLEANOUTS SHALL CONFORM TO SPS 382.35(6) TABLE 82.35.

4. WASTE STACK BASE CONNECTIONS SHALL BE MADE USING LONG

26. ALL WATER CLOSETS SHALL BE WATER CONSÉRVING TYPE, USING A

. ALL SINK FAUCETS SHALL USE A MAXIMUM OF 2.2 GPM, CONFORMING

8. ALL LINE VALVÈS WHICH SERVE TWO OR MORE PLUMBING FIXTURES

SHALL HAVE A FLOW OPENING NOT LESS THAN ONE NOMINAL PIPE

P. CUTTING, NOTCHING OR BORING OF METAL STUD WALL SYSTEM IS

30. PLASTIC PIPE MAY PENETRATE REQUIRED FIRE-RESISTIVE RATED FLOORS, WALLS, CEILINGS AND FIRE RATED ASSEMBLIES

PROTECTED WITH AN APPROVED FIRE-STOP SYSTEM HAVING AN F-

RATING NOT LESS THAN THE HOURLY RATING OF THE ASSEMBLY

CORE DRILL OPENINGS IN EXISTING FLOOR/WALL, AS REQUIRED.

3. FINAL CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT TO

SIZE OF OPENINGS SHALL NOT EXCEED 1" LARGER THAN THE O.D. OF THE PIPING PENETRATING THE ASSEMBLY. COORDINATE WITH

DRAFT/FIRE STOPPING REQUIREMENTS.

POPULATION OF TO CATED ABOVE CEILINGS PRIOR TO CEILING CRID

THE STRUCTURAL INTEGRITY HAS NOT BEEN REDUCED TO

NOT PERMITTED UNLESS APPROVED BY THE MANUFACTURER AND

SIZE SMALLER THAN THE NOMINAL SIZE OF THE PIPING CONNECTING

MAXIMUM OF 1.6 GALLONS PER FLUSH CONFORMING TO SPS

4. ALL WATER PIPING SHALL BE SO INSTALLED TO FACILITATE

ALL, PLUMBING FIXTURES, STRUCTURAL DIMENSIONS AND LAYOUT.

OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL DECISION.

FROM FLOOR ABOVE FROM FLOOR BELOW FIXTURE UNIT

TO FLOOR ABOVE TO FLOOR BELOW

COORDINATE AS REQUIRED.

ELEVATIONS, ETC. AT SITE.

WITH OTHER TRADES.

COMPLETE DRAINAGE.

SEPARATE CONTRACT

SWEEP FITTINGS.

TO SPS 384.20(3).

UNACCEPTABLE LEVELS.

BE DONE BY PLUMBING CONTRACTOR.

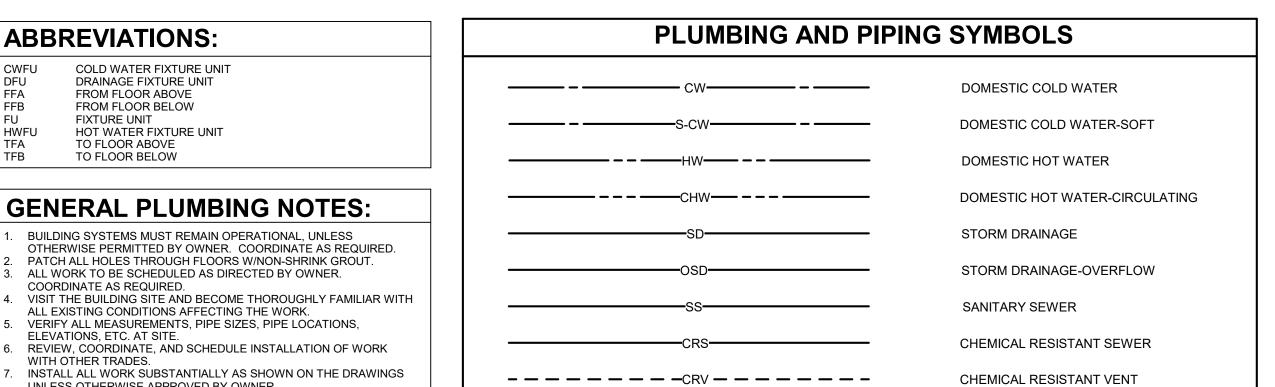
BEING PENETRATED.

INSTALLATION.

384.20(3).

CONFORMING TO SPS 382.41(3).

FP100 FIRE PROTECTION P000 GENERAL NOTES P090 REMOVAL PLANS P100 BASEMENT PLAN P101 FIRST FLOOR PLAN P200 DWV AND WATER ISOMETRIC



PLUMBING SPECIFICATIONS:

SANITARY WASTE AND VENT PIPING (NON-PLENUM APPLICATIONS):

POLYVINYL CHLORIDE (PVC):

JOINTS: PRIMER, LOW VOC, ASTM F656; SOLVENT CEMENT, LOW VOC, ASTM D2564

PIPE: HUBLESS CAST IRON PIPE, ASTM A-888, CISPI 301, NSF CERTIFIED. JOINTS: CAST IRON COUPLINGS WITH NEOPRENE GASKETS AND STAINLESS STEEL BOLTS AND NUTS, ASTM A-1056, MG COUPLINGS

SANITARY VENT

INSTALL PLASTIC PIPE AND FITTINGS AS RECOMMENDED BY MANUFACTURER. INCLUDE ADEQUATE OFFSETS OR EXPANSION JOINTS TO ALLOW FOR PIPE EXPANSION. DO NOT INSTALL PLASTIC PIPE IN PLENUM SPACE. INSTALL CAST IRON PIPE AND FITTINGS AS RECOMMENDED BY CISPI IN THEIR PUBLICATION "INSTALLATION OF CAST IRON SOIL PIPE

SECTION: DOMESTIC WATER

SECTION: SANITARY WASTE SYSTEM

CAST COPPER ALLOY, SOLDER JOINT, PRESSURE RATED, ANSI B16.18

COPPER, PRESS FIT JOINT, EPDM O-RING, ANSI B16.51, 0° - 250°F, MAXIMUM 200 PSIG. PROPRESS BY VIEGA, APOLLOPRESS BY APOLLO FLOW CONTROLS OR PRESSYSTEM BY NIBCO.

PRESS FIT JOINT, ÉPDM O-RING, MADE WITH ÉLECTRO-HYDRAULIC CRIMPING TOOL AND JAW CORRECT FOR PIPE SIZE. TESTING - POTABLE WATER AFTER PORTIONS OF THE POTABLE WATER SYSTEMS WORK ARE COMPLETED, THE WORK SHALL BE HYDROSTATICALLY TESTED IN THE PRESENT OF THE ARCHITECT'S AND OWNER'S REPRESENTATIVES AND OTHER AUTHORITIES OF JURISDICTION. FIVE DAYS NOTICE OF THE TESTS SHALL BE GIVEN TO THE ARCHITECT AND OWNER. FURNISH ALL PUMPS, GAGES,

VENT ALL AIR FROM THE SYSTEM FOR HYDROSTATIC TESTING. IN THE CASE OF THE HYDROSTATIC TEST WITH WATER, THE TEST PRESSURE SHALL BE 100 PSIG OR 1-1/2 X MAXIMUM WORKING PRESSURE, WHICHEVER IS THE GREATER. TEST PRESSURE SHALL BE HELD WITH NO NOTICEABLE LOSS IN PRESSURE WHILE

FLUSHING:

BUILDING DOMESTIC COLD WATER AND HOT WATER PIPING SHALL BE CLEANED AND FLUSHED SO AS TO BE FREE OF ALL THREAD CUTTING OIL, THREAD CHIPS, SOLDER RESIDUE, SHAVINGS AND OTHER FOREIGN MATTER. AFTER CLEANING AND FLUSHING, THE PIPING SYSTEM SHALL BE DISINFECTED.

FLUSH TO OBTAIN FLOW OF CLEAN WATER.

DISINFECTION:

• DISINFECT THE DOMESTIC WATER SYSTEM TO THE OWNER'S SATISFACTION, WITH BLEACH OR CHLORINE GAS. AFTER DISINFECTING, FLUSH THE SYSTEM AS HEREIN BEFORE DESCRIBED UNDER FLUSHING. PROVIDE NIPPLES AND VALVES AS REQUIRED TO INTRODUCE DISINFECTANT AND WATER.

FILL THE SYSTEM UNIFORMLY WITH A DISINFECTION SOLUTION OF 100 PPM AVAILABLE CHLORINE. THE DISINFECTANT SHALL BE RETAINED ON LESS THAN 24 HOURS. AS AN ALTERNATE, A SOLUTION OF 300 PPM HELD FOR 3 HOURS IS ALSO ACCEPTABLE. AFTER THE HOLDING PERIOD, A TEST FOR RESIDUAL CHLORINE SHALL BE MADE. IF NONE IS FOUND, THE SYSTEM SHALL BE DRAINED AND THE DISINFECTION PROCEDURE REPEATED. WHEN A POSITIVE RESIDUAL CHLORINE TEST IS ACCOMPLISHED, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER AND PUT INTO OPERATION.

INSULATION SHALL BE PROVIDED ON ALL DOMESTIC WATER PIPING AS FOLLOWS: 1. FIBERGLASS PIPE INSULATION WITH MINIMUM NOMINAL DENSITY OF 3 LBS. PER CU. FT., AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75 DEGREES F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450 DEGREES F WITH VAPOR

3. HANGERS ON ALL WATER PIPING SHALL BE OVERSIZED FOR PIPE INSULATION AND SHALL NOT BE INSULATED.

1. ABOVE FLOOR: COPPER TUBE, TYPE L, HARD TEMPER, ASTM B88.

ACCEPTABLE MANUFACTURERS: NIBCO, APOLLO AND WATTS, SUBJECT TO PROVIDING VALVES EQUAL TO ITEM SPECIFIED.
 FULL PORT, 2-PIECE, BRONZE BODY, CHROME PLATED BRONZE BALL, TEFLON SEATS, BLOWOUT-PROOF STEM, THREADED OR

SOLDERED JOINT, WATTS FBV OR FBVS.

AIR COMPRESSOR:

SINGLE-STAGE, OIL-LUBRICATED ROTARY SCREW AIR COMPRESSOR, 20 HP MOTOR (460/3/60 VOLTAGE), MOUNTED ON 120-GALLON ASME HORIZONTAL RECEIVER TANK, SAFETY RELIEF VALVE, AUTO DRAIN. MOUNTED REFRIGERATED AIR DRYER

PIPE: SCHEDULE 40, CLASS 12454 (PVC 1120), ASTM D1785 FITTINGS: DRAIN, WASTE AND VENT (DWV) PATTERN FITTINGS, ASTM D2665; SOCKET FITTING PATTERNS, ASTM D3311.

SANITARY WASTE AND VENT PIPING (PLENUM APPLICATIONS):

SUPPORT CAST IRON PIPING AT EVERY COUPLING. LOCATE HANGER WITHIN 18" OF COUPLING.

PIPE: COPPER TUBE, TYPE L, HARD DRAWN, ASTM B88

WROUGHT COPPER, SOLDER JOINT, PRESSURE RATED, ANSI B16.22

LEAD FREE (<0.2%) SOLDER, ASTM B32, FLUX, ASTM B813

INSTRUMENTS, TEST EQUIPMENT AND PERSONNEL REQUIRED FOR THESE TESTS AND MAKE ALL PROVISIONS FOR REMOVAL OF TEST FOUIPMENT.

ALL JOINTS ARE VISUALLY INSPECTED FOR LEAKS. WATER TEMPERATURE SHALL NOT EXCEED 100 DEGREE F.

REMOVE SCREENS FROM ALL IN-LINE STRAINERS EXCEPT THOSE AT PUMP STATION. OPEN ALL CONTROL VALVE TO FULLY OPEN POSITION.

SECTION: PIPE INSULATION

INSTALL AS RECOMMENDED TO MANUFACTURER RECOMMENDATIONS.

SECTION: COMPRESSED AIR SYSTEM

2. BELOW FLOOR: COPPER TUBE, TYPE K, SOFT TEMPER, ASTM B88. FITTINGS: WROUGHT COPPER OR BRONZE, SOLDER JOINT, PRESSURE RATED, ANSI B16.22.

JOINTS: LEAD FREE (<0.2%) SOLDER, BRIDGIT OR SILVABRITE, ASTM B32; FLUX, ASTM B813. UNIONS WROUGHT COPPER UNION, NIBCO 633-W. BALL VALVES:

1. ACCEPTABLE MANUFACTURERS: AIR MITE, ARO, FISHER, FOSTER, GENERANT, GRACO, LINCOLN, MILTON, QUINCY AND HANSON. 2. AO-1: CHICAGO NO. 937-WHAGVCP (0 PSI to 125 PSI) STRAIGHTWAY NEEDLE VALVE WITH WHEEL HANDLE AND SERRATED NOZZLE. PROVIDE: SHUTOFF VALVE AND AIR REGULATOR (0 PSI to 125 PSI) UPSTREAM OF NOZZLE.

DESIGNED TO PROVIDE A 40°F PRESSURE DEW POINT – (115/1/60 VOLTAGE). VARIABLE SPEED DRIVE. VIBRATION ISOLATORS. CAPACITY TO BE 75.5 CFM FREE AIR AT 100-125 PSI DISCHARGE PRESSURE RANGE.

HSR ASSOCIATES INC. 100 MILWAUKEE STREET LA CROSSE, WISCONSIN PHONE: 608.784.1830 FAX: 608.782.5844 www.hsrassociates.com Consultant: CHINCA Ш HSR Project Number: Project Date: Drawn By: Key Plan:

ARCHITECTURE

ENGINEERING

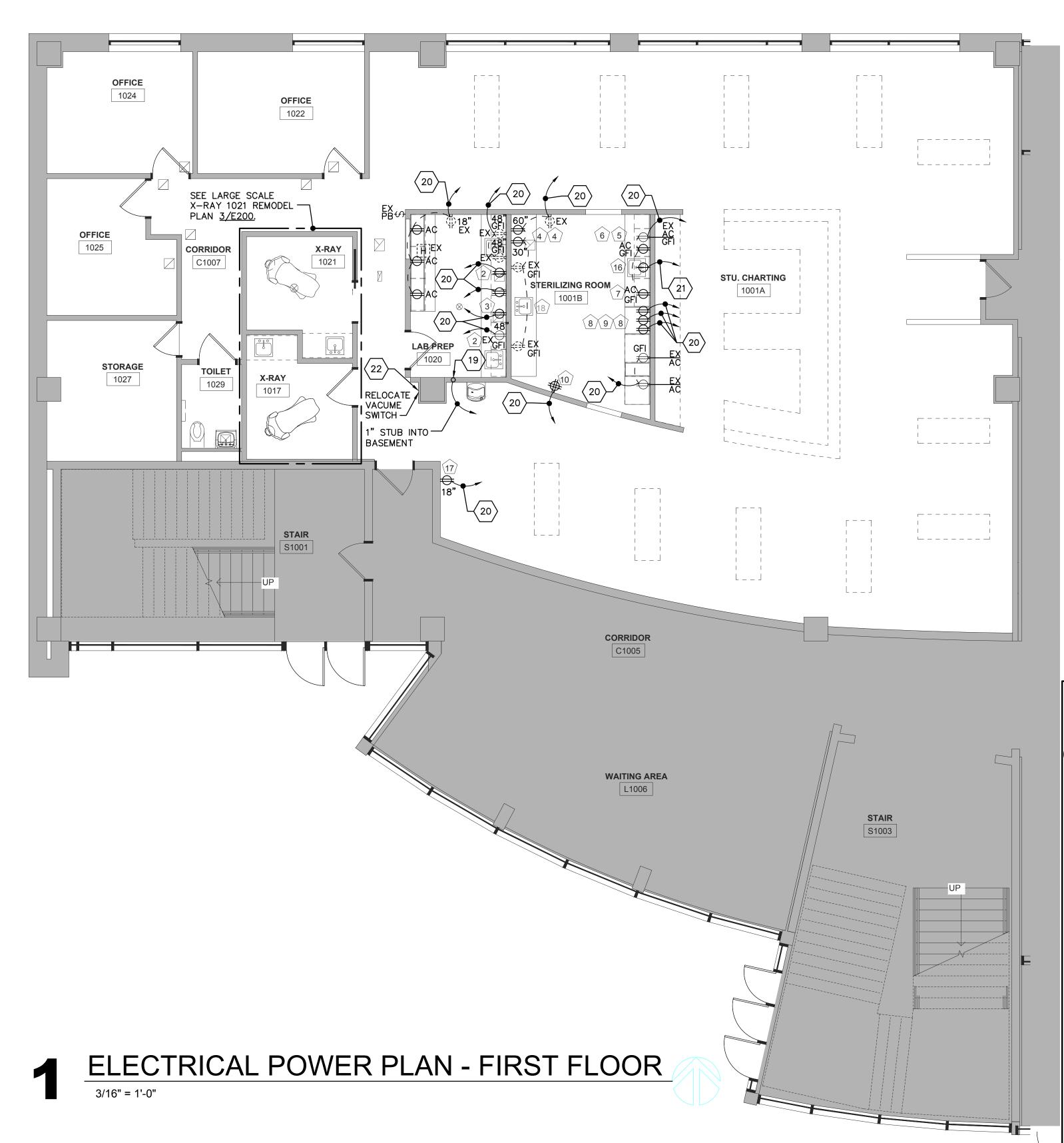
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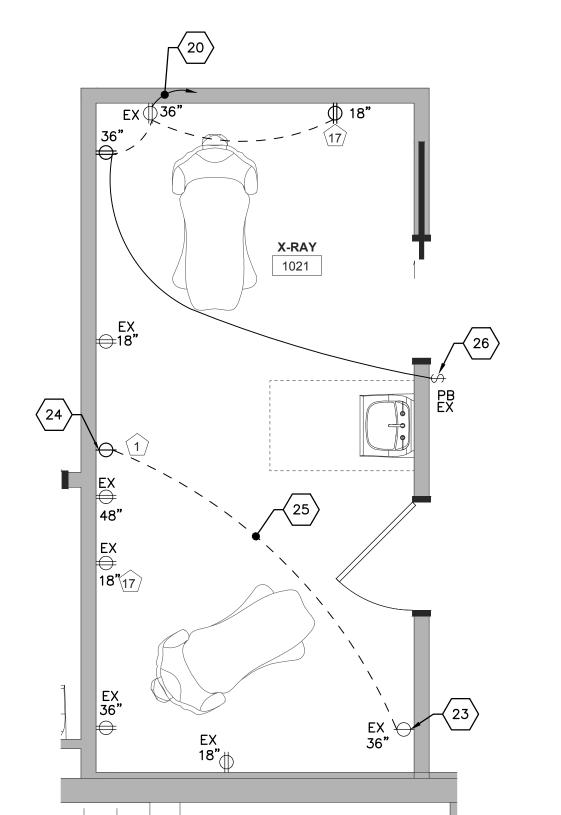
24030 OCTOBER 2024 RGJ

Graphic Scale: **VARIES**

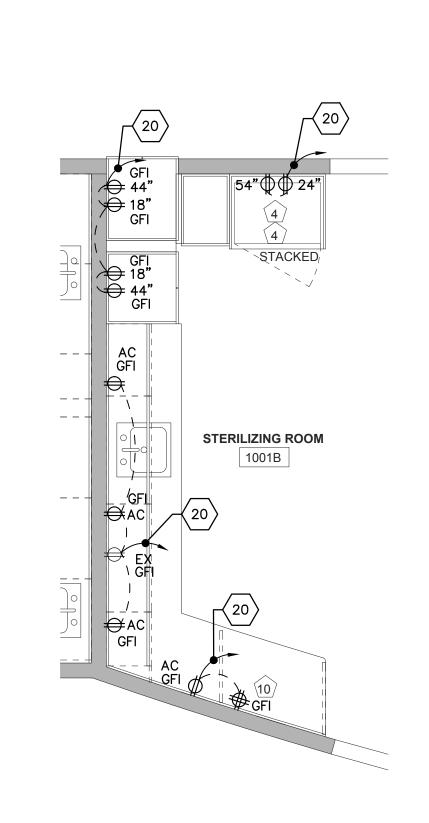
A1 Addendum #1 A2 Addendum #2

Last Update: 10/21/2024 2:03:33 PM

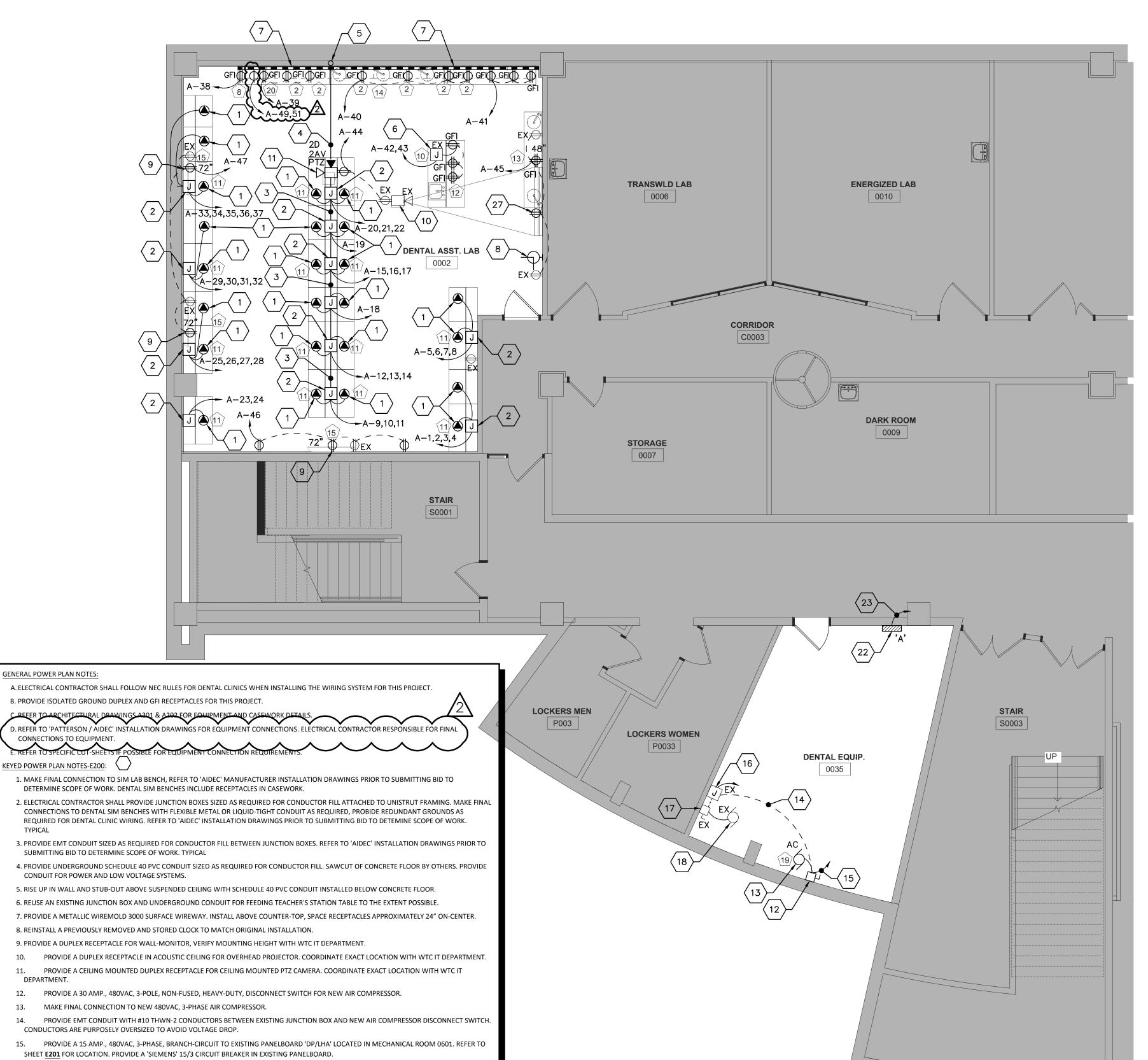




X-RAY 1021 - POWER ALTERNATE BID #1



STERILIZING ROOM 1001B - POWER ALTERNATE BID #2



ELECTRICAL POWER PLAN - BASEMENT

PROVIDE A DUPLEX RECEPTACLE ABOVE PROJECTION SCREEN FOR SOUNDBAR. COORDINATE WITH WTC IT DEPARTMENT. **EQUIPMENT SCHEDULE FURNISHED INSTALLED DESCRIPTION** MFG. | MODEL | LOCATION | CONNECT. | OWNER | CONTRACT. | OWNER | CONTRACT. **REMARKS** WHIP MIX). 4 ADDITIONAL NEW UNITS (MFG. AND MODEL TBD BY OWNER). OWNER SUPPLIED - OWNER INSTALLED HANDPIECE MAINTENANCE SYSTEM JTOCLAVES AND STATIM STACKED IN TOWER ROOM 1001B. LOCATED OWNER REP SUPPLIED - OWNER REP INSTALLED SIM LAB BENCH 12 TEACHING STATION 593 ACCESSORY ELECT./DATA/WATER/DRA FEACHING STATION TO HAVE DATA CONNECTIONS TO MONITORS AND CONSOLE OVERHEAD PROJECTOR. OWNER REP SUPPLIED - OWNER REP 13 HAND WASH STATION WATER/DRAIN/AIR ONSOLE WNER REP SUPPLIED - OWNER REP INSTALLED EACHING STATION TO HAVE DATA CONNECTIONS TO MONITORS AND OVERHEAD PROJECTOR. CONTRACTOR SUPPLIED - CONTRACTOR OWNER REP SUPPLIED - OWNER REP INSTALLED 16 STERILIZATION CENTER WATER/DRAIN/AIR STERILIZATION CENTER 17 ERGOTRON WORKSTATION ELECT./DATA RELOCATED EXISTING EQUIPMENT. OWNER SUPPLIED - CONTRACTOR 18 STERILIZATION WEST CABINETRY OWNER REP SUPPLIED - OWNER REP INSTALLED STERILIZATION 19 AIR COMPRESSOR
20 HANDPIECE MAINTENANCE SYSTEM CONTRACTOR SUPPLIED - CONTRACTOR INSTALLED ELECT./AIR 21 PRINTER
22 CAMERA
23 PROJECTOR
24 PROJECTOR SCREEN
25 SOUND BAR LECT./DATA RINTER. OWNER SUPPLIED-OWNER INSTALLED

16. REUSE EXISTING JUNCTION BOX WITH ¾" CONDUIT CONNECTED TO EXISTING PANELBOARD 'DP/LHA' LOCATED IN MECHANICAL ROOM 0601 TO

PROVIDE A 1" EMT EMPTY CONDUIT AND STUB TO CEILING BELOW IN BASEMENT. THIS CONDUIT WILL BE USED TO RECONNECT A VACUUM

PROVIDE A 20 AMP., 120VAC, BRANCH-CIRCUIT TO EXISTING PANELBOARD 'G/C' LOCATED IN ELECTRICAL ROOM #1102. REFER TO SHEET E202

DISCONNECT, REMOVE AND DISPOSE OF EXISTING 20 AMP., 208VAC, SINGLE-PHASE RECEPTACLE AND PROVIDE A BLANK STAINLESS STEEL COVER

EXISTING 30 AMP., 480VAC, 3-POLE DISCONNECT FOR EXISTING AIR COMPRESSOR TO REMAIN AS IS. NO WORK REQUIRED.

ROOM #1102. REFER TO SHEET E202 FOR LOCATION. PROVIDE A 'SIEMENS' 20/2 CIRCUIT BREAKER IN EXISTING PANELBAORD.

EXTEND EXISTING 20 AMP., 208VAC, SINGLE-PHASE, BRANCH-CIRCUIT AS REQUIRED TO ENERGIZED EQUIPMENT #1.

24. PROVIDE A 20 AMP., 208VAC, SINGLE-PHASE, SINGLE RECEPTACLE TO MATCH CORD AND PLUG ON EQUIPMENT #1.

EXISTING 480VAC, 3-PHASE, AIR COMPRESSOR TO REMAIN AS IS. NO WORK REQUIRED.

FOR LOCATION. PROVIDE A 'SIEMENS' 20/1 CIRCUIT BREAKER IN EXISTING PANELBAORD.

26. REWIRE EXISTING X-RAY CONTROL SWITCH TO MATCH ORIGINAL INSTALLATION.



Consultant:



24030

OCTOBER 2024

Project Date:

Key Plan:

ADDENDUM # 2 Graphic Scale: Last Update: 10/1/2024

SOUND BAR. OWNER SUPPLIED-OWNER INSTALLED



OVERALL BASEMENT POWER & LOW VOLTAGE PLAN

KEYED POWER AND LOW VOLTAGE PLAN NOTES-E201:

ELECTRICAL DEPARTMENT.

1. USE EXISTING JUNCTION BOX TO FEED NEW 480VAC, 3-PHASE, AIR COMPRESSOR.

2. USE EXISTING ¾" CONDUIT CONNECTED BETWEEN JUNCTION BOX AND PANELBOARD 'DP/LHA' FOR FEEDING NEW 480VAC, 3-PHASE, AIR COMPRESSOR.

3. LOCATION OF EXISTING 'SIEMENS', 480VAC, 3-PHASE, PANELBOARD 'DP/LHA'. PROVIDE A 15/3 CIRCUIT BREAKER FOR

4. PROVIDE EMT CONDUIT #10 THWN-2 CONDUCTORS BETWEEN EXISTING JUNCTION BOX AND NEW AIR COMPRESSOR DISCONNECT.

5. PROVIDE A 30 AMP., 3-POLE, NON-FUSED, HEAVY DUTY, 480VAC, DISCONNECT SWITCH FOR NEW AIR COMPRESSOR. 6. MAKE FINAL CONNECTION TO NEW 480VAC, 3-PHASE, AIR COMPRESSOR.

7. PROVIDE A NEW 225 AMP., 120/208VAC, 3-PHAE, 4-WIRE, 54 SPACE PANELBOARD 'A' WITH ISOLATED GROUNDING BAR TO FEED BRANCH-CIRCUITS IN REMODELED DENTAL ASSIST. LAB 0002. PLEASE LABEL AS DIRECTED BY UWL

8. PROVIDE A 225 AMP., 120/208VAC, 3-PHASE, 4-WIRE FEEDER BETWEEN NEW PANELBOARD 'A' AND EXISTING DISTRIBUTION PANELBOARD 'DP/LA' LOCATED IN ELECTRICAL ROOM 0104. PROVIDE 4-#4/0 THWN-2 AND 1-#4

THWN-2 (GRD) IN 2-1/2" EMT CONDUIT. 9. LOCATION OF EXISTING 800 AMP., 120/208VAC, 3-PHASE, 4-WIRE DISTRIBUTION PANELBOARD 'DP/LA'. PROVIDE A

'SIEMENS' 225/3 CIRCUIT BREAKER. 10. LOCATION OF EXISTING 250 AMP., 120/208VAC, 3-PHASE, 4-WIRE, 'SIEMENS' PANELBOARD 'LA'. PLEASE NOTE SEVERAL EXISTING BRANCH-CIRCUITS FEEDING DENTAL ASSIST. LAB WILL NEED TO BE REMOVED FROM THIS

11. LOCATION OF EXISTING 480/277 VAC, 3-PHASE, LIGHTING CONTROL PANEL 'RC/LA' FEEDING DENTAL ASSIST.

12. LOCATION OF EXISTING IT EQUIPMENT RACK FEEDING DATA JACKS IN DENTAL ASSIST. LAB. PROVIDE NEW CAT6A PATCH PANELS IN THIS EXISTING RACK AS REQUIRED TO FEED NEW DATA JACKS, ETC. IN REMODEL PROJECT. COORDINATE THOROUGHLY WITH WTC IT DEPARTMENT.

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	1
1	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	$\frac{1}{1}$
3	EQUIPMENT #11	20/1	1.00	1.00	20/1	EQUIPMENT #11	+
5	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	\dashv
7	EQUIPMENT #11	20/1	1.00	1.00	20/1	EQUIPMENT #11	_
9	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	\exists
11	EQUIPMENT #11	20/1	1.00	0.96	20/1	EQUIPMENT #11	\dashv
13	EQUIPMENT #11	20/1	0.62	1.00	20/1	EQUIPMENT #11	
15	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT#11	\dashv
17	EQUIPMENT #11	20/1	1.00	0.62	20/1	EQUIPMENT #11	\dashv
19	EQUIPMENT #11	20/1	0.62	0.96	20/1	EQUIPMENT #11	
21	EQUIPMENT #11	20/1	0.62	1.00	20/1	EQUIPMENT#11	_
23	EQUIPMENT #11	20/1	0.31	1.00	20/1	EQUIPMENT #11	
25	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	_
27	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	
29	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	
31	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	\dashv
33	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT#11	\neg
35	EQUIPMENT #11	20/1	0.96	0.62	20/1	EQUIPMENT #11	
37	EQUIPMENT #11	20/1	1.00	1.50	20/1	EQUIPMENT #8	
39	RECEPTACLE	20/1	1.92	0.72	20/1	RECEPTACLE	
41	RECEPTACLE	20/1	0.54	0.36	20/1	RECEPTACLE	
43	RECEPTACLE	20/1	0.72	0.50	20/1	RECEPTACLE	
45	RECEPTACLE	20/1	0.90	0.72	20/1	RECEPTACLE	_
47	RESEPTACLE	20/1	0.72		20/1	SPARE	
49	EQUIPMENT #20	20/2	0.10		20/1	SPARE	
51	n	20/2	0.10		20/1	SPARE	
53	SPARE	20/1	\langle		20/1	SPARE	
55	SPARE	20/1			20/1	SPARE	
57	SPARE	20/1			20/1	SPARE	_
59	SPARE	20/1			20/1	SPARE	
61	SPARE	20/1			20/1	SPARE	
63	SPARE	20/1			20/1	SPARE	
65	SPARE	20/1			20/1	SPARE	
67	SPARE	20/1			20/1	SPARE	
69	SPARE	20/1			20/1	SPARE	
71	SPARE	20/1			20/1	SPARE	\neg
	LIGHTING (KVA): RECEPTACLES (KVA):	39.11					
	MOTOR/EQUIPMENT (KVA):				TOTAL AT	D .	_
	TOTAL (KVA):	39.11			TOTAL AM	r.:	\dashv

INTERIOR DESIGN 100 MILWAUKEE STREET

LA CROSSE, WISCONSIN

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Consultant:

ARCHITECTURE

OCTOBER 2024

DOCUMENTS

No. Description
ADDENDUM # 2

Last Update: 10/1/2024