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PROJECT: First Financial Bank
Fourth Floor Finish Out

PROJECT NUMBER: 13.011

DATE: November 07, 2013

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ADDENDUM

Number: FIVE

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents " and becomes a part of the Contract Documents as provided therein. This Addendum includes:

- A. Addendum Pages: ADD1-1 through ADD1-1 as prepared by MMS-A/E, Inc.
- B. Attachments: Revised Specification Sections
Q&A
Revision to SD06: Third floor ceiling

PART 1 - BIDDING & CONTRACT REQUIREMENTS

1.01 N.A.

PART 2 - SPECIFICATIONS

2.01 15741 Revised
2.02 15940 Revised

PART 3 - DRAWINGS

3.01 SD07: Plumbing Clarification
3.02 SD08: Plumbing Clarification
3.03 SD06R: Revision to Third Floor Ceiling

ADD 1-1

Please acknowledge receipt of Addendum No. 2 on bid form.

SECTION 15741

WATER-SOURCE UNITARY HEAT PUMPS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following types of water-source heat pumps:
 - 1. Concealed horizontal or vertical units, 6 tons and smaller.

1.3 SUBMITTALS

- A. Product Data: Include rated capacities, furnished specialties, and accessories for each model.
- B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 1. Wiring Diagrams: Power, signal, and control wiring.

1.4 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Floor plans, reflected ceiling plans, and other details, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
 - 1. Suspended ceiling components.
 - 2. Structural members to which heat pumps will be attached.
 - 3. Method of attaching hangers to building structure.
 - 4. Size and location of initial access modules for acoustical tile.
 - 5. Items penetrating finished ceiling, including the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Speakers.
 - d. Sprinklers
 - e. Access panels.
- B. Product Certificates: For each type of water-source heat pump, signed by product manufacturer.
- C. Field quality-control test reports.
- D. Warranty: Special warranty specified in this Section.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For water-source heat pumps to include in emergency, operation, and maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. One set(s) of matched fan belts for each belt-driven fan.
 - 2. One set(s) of filters for each unit.

1.7 QUALITY ASSURANCE

- A. Product Options: Drawings indicate size, profiles, and dimensional requirements of water-source heat pumps and are based on the specific system indicated. Refer to DIVISION 1 “Product Requirements.”
 - 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect’s approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. ASHRAE Compliance:
 - 1. ASHRAE 15.
 - 2. Applicable requirements in ASHRAE 62.1, Section 5 – “Systems and Equipment” and Section 7 – “Construction and Startup.”
- D. ASHRAE/IESNA Compliance: Applicable requirements in ASHRAE/IESNA 90.1, Section 6 – “Heating, Ventilating, and Air-Conditioning.”
- E. Comply with NFPA 70.
- F. Comply with safety requirements in UL 484 for assembly of free-delivery water-source heat pumps.
- G. Comply with safety requirements in UL 1995 for duct-system connections.

1.8 COORDINATION

- A. Coordinate layout and installation of water-source heat pumps and suspension components with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system components, and partition assemblies.
- B. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Section 077200 “Roof Accessories.”

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of water-source heat pumps that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, refrigeration components.
 - 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - 1. Available Manufacturers: Submit to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to manufacturers specified.
 - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 CONCEALED WATER-SOURCE HEAT PUMPS, 6 TONS AND SMALLER

- A. Manufacturers:
 - 1. Carrier Corporation
 - 2. Climate Master, Inc.
 - 3. Mammoth
 - 4. Trane
 - 5. Water Furnace International, Inc.
- B. Description: Packaged water-source heat pump with temperature controls; factory assembled, tested, and rated according to ARI-ISO-13256-1.
- C. Cabinet and Chassis: Galvanized-steel casing with the following features:
 - 1. Access panel for access and maintenance of internal components.
 - 2. Knockouts for electrical and piping connections.
 - 3. Flanged duct connections.
 - 4. Cabinet Insulation: Glass-fiber liner, minimum $\frac{3}{4}$ inch thick, 1.5 pound, skim-coated fiberglass, complying with UL 181.
 - 5. Condensate Drainage: Plastic or stainless-steel drain pan with condensate drain piping projecting through unit cabinet and complying with ASHRAE 62.1.
 - 6. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1
 - 7. Sound Attenuation Package:
 - a. Minimum 0.598-inch thick compressor enclosure and front panel.
Minimum 0.0937-inch thick foam gasket around the compressor and perimeter of end panel.
 - b. Sound attenuating blanket over compressor.
 - c. Hot-gas muffler.

- D. Fan: Direct driven, centrifugal, with multispeed motor resiliently mounted in fan inlet.
 - 1. General requirements for motors are specified in Section 15058 “Common Motor Requirements for HVAC Equipment.”
 - 2. Motor: Multispeed, permanently lubricated, ECM motor.

- E. Water Circuit:
 - 1. Refrigerant-to-Water Heat Exchangers:
 - a. Coaxial heat exchangers with copper water tube with enhanced heat-transfer surfaces inside a steel shell; both shell and tube leak tested to 450 psig on refrigerant side and 400 psig on water side. Factory mount heat exchanger in unit on resilient rubber vibration isolators.
 - b. Stainless-steel, brazed-plate heat exchanger leak tested to 450 psig for refrigerant side and 400 psig for water side. Factory mount heat exchanger in unit on resilient rubber vibration isolators.
 - 2. Water-Side Economizer: Copper tube and aluminum fin coil with three-way valve and entering-water temperature sensor and controller. Valve diverts water to water-side economizer coil ahead of refrigerant-to-water heat exchanger when entering-water temperature falls to 55 degrees F.
 - 3. Water Regulating Valves: Limit water flow through refrigerant-to-water heat exchanger, and control head pressure on compressor during cooling and heating. Valves shall close when heat-pump compressor is not running.
 - 4. Motorized Water Valve: Stop water flow through the unit when compressor is off.

- F. Refrigerant-to-Air Coils: Copper tubes with aluminum fins, leak tested to 450 psig.

- G. Refrigerant Circuit Components:
 - 1. Sealed Refrigerant Circuit: Charge with R-410A refrigerant.
 - 2. Filter-Dryer: Factory installed to clean and dehydrate the refrigerant circuit.
 - 3. Charging Connections: Service fittings on suction and liquid for charging and testing.
 - 4. Reversing Valve: Pilot-operated sliding-type valve designed to be fail-safe in heating position with replaceable magnetic coil.
 - 5. Compressor: Hermetic scroll compressor installed on vibration isolators and housed in an acoustically treated enclosure with factory-installed safeties as follows:
 - a. Antirecycle timer.
 - b. High-pressure cutout.
 - c. Low-pressure cutout or loss of charge switch.
 - d. Internal thermal-overload protection.
 - e. Freezestat to stop compressor if water-loop temperature in refrigerant-to-water heat exchanger falls below 35 degrees F.
 - f. Condensate overflow switch to stop compressor with high condensate level in condensate drain pan.
 - 6. Refrigerant Piping Materials: ASTM B 743 copper tube with wrought-copper fittings and brazed joints.
 - 7. Pipe Insulation: Refrigerant minimum 3/8-inch thick, flexible elastomeric insulation on piping exposed to airflow through the unit. Maximum 25/50 flame-spread/smoke-development indexes according to ASTM E 84.
 - 8. Refrigerant Metering Device: Capillary tube.

9. Refrigerant Metering Device: Thermal expansion valve to allow specified operation with entering-water temperatures from 25 to 125 degrees F.
 10. Hot-Gas Reheat Valve: Pilot-operated sliding-type valve with replaceable magnetic coil.
- H. Electric Heating Coil: Helix-wound, nickel-chromium wire-heating elements in ceramic insulators mounted on steel supports. Energize on call for heating when entering-water-loop temperature is less than 25 degrees F.
- I. Hot-Gas Reheat: Reheat valve diverts refrigerant hot gas to reheat coil when remote humidistat calls for dehumidification.
- J. Filters:
1. Adequate clearances must be allowed for cleaning or changing filters.
 2. Air filtration systems shall utilize replaceable media, 100 percent non-woven polyester synthetic fibers, 1 ½” thick blend of variable polyester fibers, permanently bonded, pre-crimped fibers in laminates, each graduating down in diameter. The media shall be white on the air-inlet side and colored on the air-outlet side. The downstream section shall be uniformly impregnated with a non-drying, non-migratory tackifier to assure dust retention. Media specification:
 - a. Media shall be at least UL-Class II.
 - b. Minimum media performance and particle efficiency shall be:
 - 1) Weight: 11.0 oz. per sq. yd.
 - 2) Minimum performance (24” x 24” x 1-1/2” media):
 - a) 0.21” w.c. resistance at 300 fpm.
 - b) 30 percent ASHRAE efficiency
 - c) 92 percent average weight arrestance
 - d) 221 gm. dust-holding capacity at 1.0” w.c.
 - 3) Minimum particle efficiency:
 - a) 46.1 percent at 1 to 5 microns
 - b) 86.1 percent at 5 to 10 microns
 - c) 89.3 percent over 10 microns
 3. Filter frames shall accommodate replaceable media in plastic filter frames as provided by the equipment manufacturers.
 4. Plastic Filter Frames
 - a. Shall be permanent-style designed for replacement media.
 - b. Frames shall be constructed of PVC channel shaped perimeter with 14-gauge 2” x 2” galvanized welded wire back guard.
 - c. Frame construction shall provide a competent seal of the filter media in order to minimize air flow bypass.
 - d. Frame size shall be clearly marked on one side of each frame.
 5. Each filter bank shall be equipped with a Magnehelic (or similar) gauge that indicates static pressure drop across the filters along with digital sensor to indicate when filters require replacement.
 6. The design change-out pressure drop, in inches water gauge, shall be indicated on the gauge.
- K. Control equipment and sequence of operation are specified in Section 15940 “Sequence and Operations.”

- L. Controls:
 - 1. Basic Unit Controls: (See Section 15940 – Sequence of Operation)
 - a. Low- and high-voltage protection.
 - b. Overcurrent protection for compressor and fan motor.
 - c. Random time delay, three to ten seconds, start on power up.
 - d. Time delay override for servicing.
 - e. Control voltage transformer.

- M. Electrical Connection: Single electrical connection.

- N. Capacities and Characteristics:
 - 1. Fan:
 - a. Airflow: per schedule.
 - b. External Static Pressure: per schedule
 - c. Fan Speed: per schedule
 - d. Maximum Brake Horsepower for Fan: per schedule
 - e. Motor Speed: per schedule
 - f. Motor Horsepower: per schedule
 - 2. Water Supply:
 - a. Water Flow: per schedule
 - b. Pressure Loss: per schedule
 - c. Entering-Water Temperature (Cooling): per schedule
 - d. Entering-Water Temperature (Heating): per schedule
 - e. Antifreeze Protection Chemical: per schedule

2.3 HOSE KITS

- A. General: Hose kits shall be designed for minimum 400 psig working pressure, and operating temperatures from 33 to 211 degrees F. Tag hose kits to equipment designations.

- B. Hose: Length 24 inches. Minimum diameter, equal to water-source heat-pump connection size.

- C. Isolation Valves: Two-piece bronze-body ball valves with stainless-steel ball and stem and galvanized-steel level handle. Provide valve for supply and return. If balancing device is combination shutoff type with memory stop, the isolation valve may be omitted on the return.

- D. Strainer: Y-type with blowdown valve in supply connection.

- E. Balancing Device: Mount in return connection. Include meter ports to allow flow measurement with differential pressure gage.
 - 1. Automatic balancing valve, factory set to operate within 10 percent of design flow rate over a 40:1 differential pressure range of 2 to 80 psig.
 - 2. Manual, calibrated-orifice balancing valve.
 - 3. Manual, venturi-type balancing valve.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of water-source heat pumps.
- B. Examine roughing-in for piping and electric installations for water-source heat pumps to verify actual locations of piping connections and electrical conduit before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Equipment Mounting: Install water-source heat pumps with continuous-thread hanger rods and spring hangers with vertical-limit stop of size required to support weight of water-source heat pump unit.
 - 1. Comply with requirements for seismic-restraint devices specified in Section 15070 “Vibration and Seismic Controls for HVAC Piping and Equipment.”
 - 2. Comply with requirements for hangers and supports specified in Section 15060 “Hangers and Supports for HVAC Piping and Equipment.”
- B. Curb Support: Install roof curb on roof structure, level and secure, according to NRCA’s “The NRCA Roofing and Waterproofing Manual, Fifth Edition.” Install and secure water-source heat pumps on curbs, and coordinate roof penetrations and flashing with roof construction.
- C. Install wall-mounting thermostats, humidistats, and switch controls in electrical outlet boxes at heights to match lighting controls or as required in Section 230900 “Instrumentation and Control for HVAC.”

3.3 CONNECTIONS

- A. Drawings indicate general arrangement of piping, fittings, and specialties. Specific connection requirements are as follows:
 - 1. Connect supply and return hydronic piping to heat pump with unions and shutoff valves and hose kits.
 - 2. Connect heat-pump condensate drain pan to indirect waste connection with condensate trap of adequate depth to seal against the pressure of fan. Install cleanouts in piping at changes of direction.
- B. Duct installation requirements are specified in other Sections. Drawings indicate general arrangement of ducts. Specific connection requirements are as follows:
 - 1. Connect supply and return ducts to water-source heat pumps with flexible duct connectors specified in Section 15820 “Air Duct Accessories.”
 - 2. Install ducts to termination in roof curb.
 - 3. Remove roof decking only as required for passage of ducts. Do not cut out decking under entire roof curb.

4. Terminate return-air duct through roof structure and insulate space between roof and bottom of unit with 2-inch thick, acoustic duct liner.
- C. Install electrical devices furnished by manufacturer but not specified to be factory mounted.
 - D. Install piping adjacent to machine to allow service and maintenance.
 - E. Ground equipment according to DIVISION 16 “Grounding and Bonding for Electrical Systems.”
 - F. Connect wiring according to DIVISION 16 “Low-Voltage Electrical Power Conductors and Cables.”

3.4 FIELD QUALITY CONTROL

- A. Manufacturer’s Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and to assist in field testing. Report results in writing.
- B. Perform the following field tests and inspections and prepare test reports:
 1. After installing water-source heat pumps and after electrical circuitry has been energized, test units for compliance with requirements.
 2. Inspect for and remove shipping bolts, blocks, and tie-down straps.
 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Remove and replace malfunctioning units and retest as specified above.

3.5 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
- B. Complete installation and startup checks according to manufacturer’s written instructions and do the following:
 1. Inspect for visible damage to unit casing.
 2. Inspect for visible damage to compressor, coils, and fans.
 3. Inspect internal insulation.
 4. Verify that labels are clearly visible.
 5. Verify that clearances have been provided for servicing.
 6. Verify that controls are connected and operable.
 7. Verify that filters are installed.
 8. Adjust vibration isolators.
 9. Inspect operation of barometric dampers.
 10. Verify bearing lubrication on fan.
 11. Inspect fan-wheel rotation for movement in correct direction without vibration and binding.
 12. Adjust fan belts to proper alignment and tension.

13. Start unit according to manufacturer's written instructions.
14. Complete startup sheets and attach copy with Contractor's startup report.
15. Inspect and record performance of interlocks and protective devices; verify sequences.
16. Operate unit for an initial period as recommended or required by manufacturer.
17. Verify thermostat and humidistat calibration.
18. Inspect outdoor-air dampers for proper stroke and interlock with return-air dampers.
19. Inspect controls for correct sequencing of heating, mixing dampers, refrigeration, and normal and emergency shutdown.
20. Start refrigeration system and measure and record the following:
 - a. Coil leaving-air, dry- and wet-bulb temperatures.
 - b. Coil entering-air, dry- and wet-bulb temperatures.
 - c. Outdoor-air, dry-bulb temperature.
 - d. Outdoor-air-coil, discharge-air, dry-bulb temperature.
21. Measure and record the following minimum and maximum airflows. Plot fan volumes on fan curve.
 - a. Supply-air volume.
 - b. Return-air volume.
 - c. Relief-air volume.
 - d. Outdoor-air intake volume.

3.6 ADJUSTING

- A. Adjust initial temperature and humidity set points.
- B. Set field-adjustable switches and circuit-breaker trip ranges as indicated.
- C. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project during other than normal occupancy hours for this purpose.

3.7 CLEANING

- A. Replace filters used during construction prior to air balance or substantial completion.
- B. After completing installation of exposed, factory-finished water-source heat pumps, inspect exposed finishes and repair damaged finishes.

3.8 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain water-source heat pumps.

END OF SECTION 15741

SECTION 15940
SEQUENCE OF OPERATION

PART 1 GENERAL

1.1 SCOPE

- A. Water Source Heat Pump Control

- B. Exhaust Fan Control

1.2 RELATED SECTIONS

- A. Existing Building Temperature Control System. (Honeywell WEBs-AX Based System)

1.3 SYSTEM DESCRIPTION

- A. This Section defines the manner and method by which controls and mechanical equipment function. Requirements for each type of control system operation are specified. Equipment, devices, and system components required for control systems are specified in other Sections.

1.4 SUBMITTALS

- A. Submit diagrams indicating mechanical system controlled and control system components. Label with settings, adjustable range of control and limits. Include detailed written description of control sequence, stating all initial set points, operating ranges, interlocks, etc.

- A. Include flow diagrams for each control system, graphically depicting control logic.

- B. Include draft copies of graphic displays indicating mechanical system components, control system components, and controlled function status and valve.

1.5 PROJECT RECORD DOCUMENTS

- A. Accurately record actual set points and settings of controls, including changes to sequences, operating spans, etc. made after systems commissioning.

PART 2 PRODUCTS

- 2.1 The extension of the shall be designed by Jackson Control Company of Indianapolis, Indiana and shall consist of Honeywell specific application heat pump controllers to match the existing system.

Part 3 Execution

3.1 Water Source Heat Pump Control:

A. System Interface:

Provide W7750A Heat Pump Controllers to match the present system. Connect to the present E-Bus 2 located on the third (3rd) floor.

A. Unoccupied (Night Setback):

When the space temperature is below the unoccupied heating setpoint (60°F adj) the supply fan will start and the hot water valve will open. When the space temperature rises above the unoccupied heating setpoint (60°F adj) plus the unoccupied differential (2°F adj) the supply fan will stop and the hot water valve will close.

B. Occupied:

During occupied periods the supply fan will run continuously. All valves will modulate to maintain the active space temperature setpoint.

C. Space Temperature Control:

The space temperature will be maintained between the occupied cooling setpoint (74°F adj) and the occupied heating setpoint (71°F adj). The unit will transition to the cooling mode when the space temperature rises one degree above the occupied cooling setpoint (74°F adj). The unit will transition to the heating mode when the space temperature drops one degree below the occupied heating setpoint (71°F adj).

D. Morning Warm-up:

During optimal start, if the space temperature is 3°F or more below the occupied heating setpoint, a morning warm-up sequence will be activated. The supply fan will start and the hot water valve will open to raise the space temperature to the occupied heating setpoint. Mode will terminate when the space temperature reaches the occupied heating setpoint.

E. Supply Fan Operation:

The fan will be off in the unoccupied mode. When the controller is in the occupied mode, the supply fan will operate at high speed for 3 seconds before changing to any other speed. The fan speed shall automatically go from Low to Medium to High based on demand.

3.2 Exhaust Fan Control:

The occupied/unoccupied mode shall be based on the Time of Day Schedule in the BAS. Status feedback is not required.

3.2 Temperature Control Contractor

- A. The Temperature Control Installer shall be factory trained in the installation of the Honeywell WEBS-AX Systems and shall have installed similar systems within a 50 mile radius of this project.

END OF SECTION -

Questions & Answers Addendum 5

Q.1 Your finish schedule indicates 4" and 6" vinyl cove base, whereas your spec section 9678 indicates Tight Lock base. What is required? Tight Lock seems a bit much for the locations indicated for vinyl base. Please clarify.

A.1 4" may be standard. 6" to be Tight Lock.

Q.2 I am trying to find window sizes on the prints online for the bank and can't find them. Can you help me?

A.2 They are approximately 4' wide by 5' tall. Please field verify dimensions.

Q.3 Are the floors rated in this facility? If so, 2 hour? Are the existing shaft walls (such as stairs, elevators, chase etc.) rated? If so, are they 1 or 2 hour rated?

A.3 All are 2 hour.

Q.4 On the 3rd floor ceiling that was issued in Addendum #4 it mentions to match the existing adjacent space ceiling. Can you confirm what that ceiling type is? Or, would you like for us to figure the new ceiling for this area the same as the base bid type?

A.4 This has changed via attached SD06R

Q.5 Are the quartz tops to be the standard 3cm (1 1/8") thick?

A.5 Standard thickness is fine for the countertops.

Q.6 Do the cabinet makers need to be union?

A.6 The owner says that only the installers need to be union.

Q.7 In the waiting area you show the wood plank ceiling at 11' AFF and show the acoustical ceiling to the east and west at 10'6" AFF but do not show a bulkhead separating the two different ceiling heights. Please clarify what we are supposed to do in these locations.

A.7 Use Armstrong's Axiom trim to transition vertically from the wood ceiling down to the 2x2 grid. Submit full range of color samples to choose from.

Q.8 Can you provide a detail for the bulkheads east and west of the double elevators going into the conference room? What does the butt glazing attach to?

A.8 Use 4/A200 and 5/A200 header to begin at 9' AFF. Use anodized bronze for the trim system.

Q.9 Detail 3/SD03 shows 3/4" black reveal bead on the radius veneer short walls. Is that just a reveal with a black back piece, or is there some sort of black beaded insert that goes into the reveal? Please clarify.

A.9 Use black reveal material like "Trim Tex" F channel or equal.

Q.10 On the installer for the Silestone tops, it has been determined that non-union labor is acceptable. Does this labor need to be prevailing wage? That can increase the cost substantially.

A.10 Yes, use prevailing wage.

Q.11 Per addendum there was an issued drawing SD03 that incorporated Details 3 and 4 into the project. These details stated that there was a metal stud knee wall in the casework. This needs to be a part of the casework as this metal stud cannot be supported with the toe kick as illustrated. Unless you want the toe kick removed so the metal stud can reach the floor, I suggest that the metal stud become part of the casework as wood stud.

A.11 That is acceptable. If awarded the contract, submit shop drawings for approval.

Q.12 The radiused walls at Reception/Waiting show metal studs being used with walnut veneer and Kerfkore material which means these things would need to be applied in the field. Can the radiused wall be built in the casework suppliers shop in the largest size(s) possible, utilizing wood studs instead of metal studs since that material is more compatible to fasten wood to (wood to wood)? I think doing the joinery in a shop would give it a much better quality look in a controlled environment.

A.12 That is acceptable. If awarded the contract, submit shop drawings for approval. We would like the front of the reception counter to appear to be one piece.

Q.13 What size will the new columns finish out at? We cannot anchor wood blocking to steel because of the fireproofing.

A.13 For purposes of bidding, bid the columns as they are shown at approximately 13x13. If this becomes an issue in the field, we can discuss our options.

Q.14 Who do I need to speak with to view the existing furniture the bank has already purchased?

A.14 Sarah Stroot, Maintenance Coordinator for FFB. (812) 238-6492 Email: sstroot@first-online.com

Q.15 Is any work required on the existing exterior glazing or aluminum sealants/caulking?

A.15 No.

Q.16 What is the address of the owner's storage facility for the furnishings to be moved?

A.16 The FFB Operations Center at 3rd and Washington.

Q.17 Are the Allowances to be included in the Base Bid?

A.17 Yes.

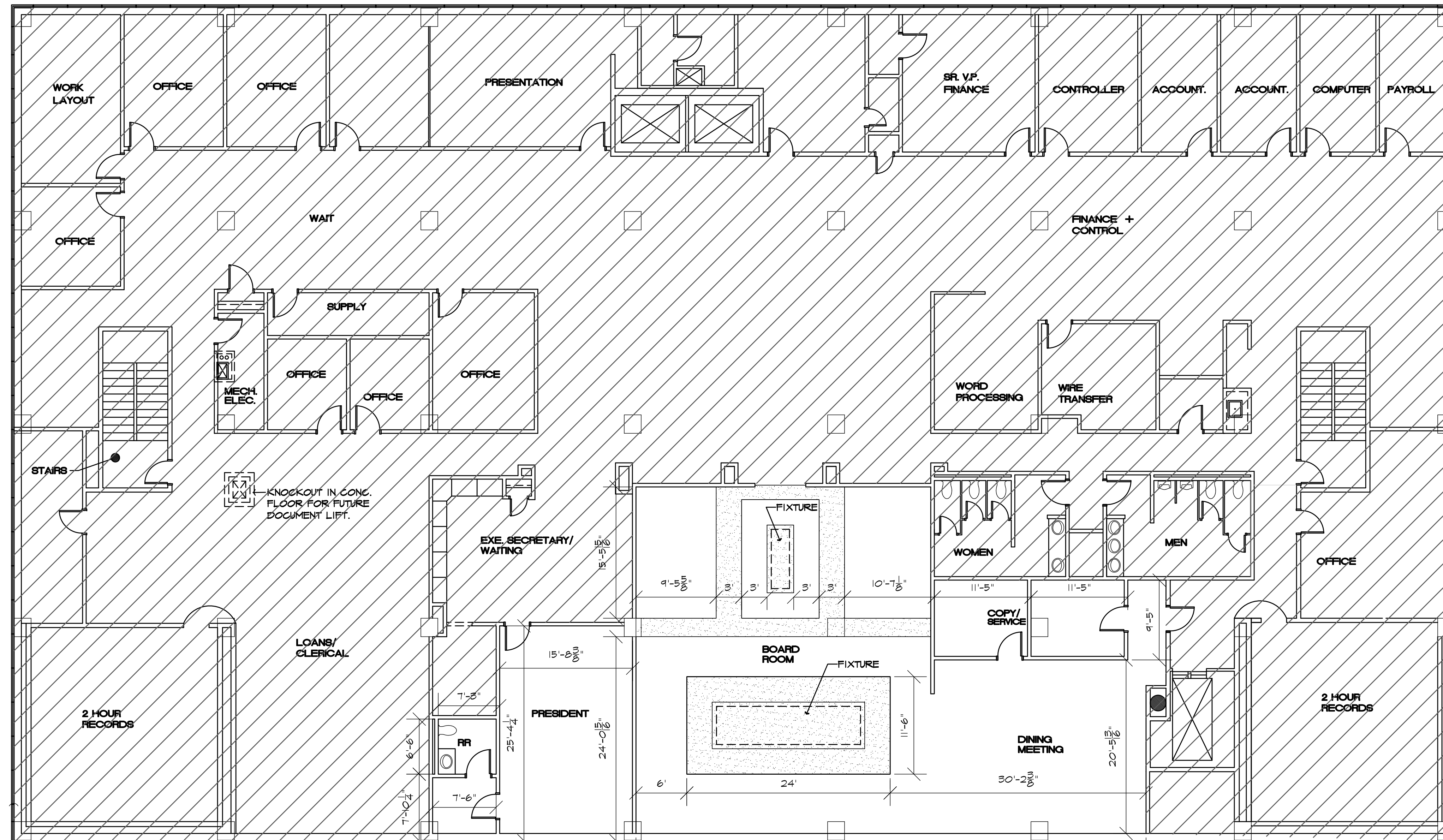
Q.18 In order to keep costs down would FFB be willing to the following:

1. Allow us to use toilets within the building (no money for temporary toilets)
2. Allow us to use FFB water, phone, electric, gas through construction (FFB pays utility bills)
3. Jobsite office (is there a place within the building we can have to use for construction office (keep \$ out for trailer rental/hookup/move-in/move-out) etc.

A.18

1. No, because of security and disruption issues.
2. This acceptable with the exception of phone costs.
3. There isn't any available space outside of the fourth floor.

Note:
All MEP items to be concealed in walls as depicted on the drawings or sent via Addenda clarification.



SCOPE OF ADDITIONAL WORK:

REMOVE EXISTING CONCEALED SPLINE CEILING TILES IN AREA TO RECEIVE NEW 2'X2' CEILING COMPLETE TO ACCOMMODATE ANY MECHANICAL, ELECTRICAL, IT, VOICE COMMUNICATION, AND/OR PLUMBING WORK ON THE FOURTH FLOOR.

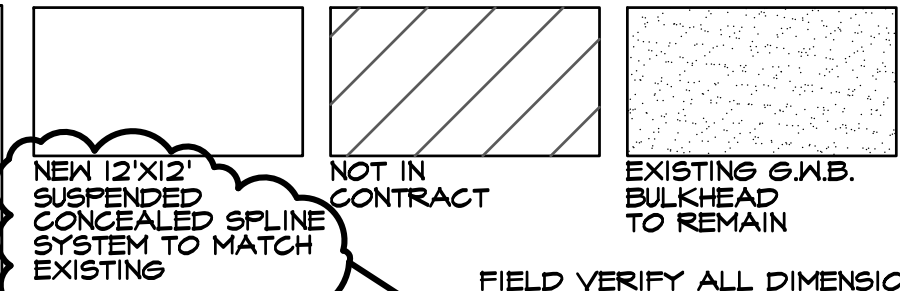
REPLACE WITH NEW 2'X2' SUSPENDED ACOUSTIC CEILING SYSTEM TO MATCH EXISTING ADJACENT SPACE. FIELD VERIFY FOR EXACT MATCH AND SUBMIT TO ARCHITECT.

CEILING HEIGHT TO REMAIN AS CLOSE TO THE EXISTING AS POSSIBLE.

ALL CEILING MOUNTED ITEMS TO REMAIN IN CURRENT LOCATIONS.

PROTECT AND REPAIR OR REPLACE TO LIKE NEW CONDITION ANY ITEM THAT IS DISTURBED AS A RESULT OF CONSTRUCTION.

COORDINATE WITH ALL FIELDS FOR A COMPLETE AND PROPERLY FUNCTIONING PROJECT.



NEW CEILING ON THIRD FLOOR
SCALE: 1/8"=1'-0"

REVISION PER OWNER'S REQUEST:

REMOVE EXISTING CONCEALED SPLINE CEILING TILES IN AREA TO RECEIVE NEW 12'X12' CONCEALED SPLINE CEILING COMPLETE TO ACCOMMODATE ANY MECHANICAL, ELECTRICAL, IT, VOICE COMMUNICATION, AND/OR PLUMBING WORK ON THE FOURTH FLOOR.

REPLACE WITH NEW 12'X12' SUSPENDED CONCEALED SPLINE CEILING SYSTEM TO MATCH EXISTING. FIELD VERIFY FOR MATCH AND SUBMIT FULL RANGE TO ARCHITECT. USE 'ARMSTRONG' FISURED OR EQUAL.

CEILING HEIGHT TO REMAIN AS CLOSE TO THE EXISTING AS POSSIBLE.

ALL CEILING MOUNTED ITEMS TO REMAIN IN CURRENT LOCATIONS.

PROTECT AND REPAIR OR REPLACE TO LIKE NEW CONDITION ANY ITEM THAT IS DISTURBED AS A RESULT OF CONSTRUCTION.

COORDINATE WITH ALL FIELDS FOR A COMPLETE AND PROPERLY FUNCTIONING PROJECT.

FIRST FINANCIAL BANK
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