

REFER TO THE DRAWINGS

- 2.7 **Drawing P001 Plumbing Legends and Notes:** Replace with attached Drawing P001 R1 revised June 9, 2026.

END OF ADDENDUM NUMBER TWO (2)

PROPOSAL FORM
SECTION 00 4200 R1

To: Department of Facilities Management
Alcorn State University
1000 ASU Drive 1169
Lorman, MS 39096

Re: Project # 26013
Project Title Renovation to Main Concourse Restrooms and Doors
Location Jack Spinks - Marino Casem Stadium
Alcorn State University, Lorman, MS 39096

I propose to complete all work in accordance with the Project Manual and Drawings no later than **September 19, 2026 for Phase 1 and October 3, 2026 for Phase 2** for the lump sum of:

BASE BID: (Write in the amount of the base bid in words and numbers. In case of conflict, the written word governs.)

Words: _____ Dollars (\$ _____)

ADD ALTERNATE 1: (Write in the amount of the alternate bid in words and numbers. In case of a conflict, the written work governs)

Words: _____ Dollars (\$ _____)

ADDENDA ACKNOWLEDGMENT:

No. _____ No. _____ No. _____
No. _____ No. _____ No. _____

ACCEPTANCE:

I certify that I am authorized to enter into a binding contract, if this Proposal is accepted.

Signature _____ Date _____
Name and Title _____
Name of Business _____

Complete spelling of bidder's name and address - exact as recorded at the Secretary of State

[<http://www.sos.state.ms.us/busserv/corp/soskb/csearch.asp>] which should be the same as you applied for at the Mississippi State Board of

Contractors [<http://www.msdoc.us/Search2.CFM>] (see 2.07, 3.01, 5.01) **PLEASE LOOK IT UP at SoS. SoS rules when the 2 are different.**

Address _____ (mailing)
Address _____ (physical)

City/State/Zip Code _____ County _____
Phone _____ Fax _____ Email _____

- **BIDDER'S CERTIFICATE OF RESPONSIBILITY NUMBER(S):** _____
- **MINORITY BUSINESS ENTERPRISE?** Yes _____ No _____ (to assist with Code 57-1-57)

-
- Attach copy of Non-Resident Bidder's Preference Law (5.04 of Bidder's Checklist)

■ **Mechanical / Plumbing / Electrical Contractors:**

Regarding said Divisions of the Specifications of the BoB Standard Form of Agreement Between The Owner and The Contractor:
List any Mechanical/Plumbing and/or Electrical Sub-Contractors that will perform work of this contract; regardless of cost even for under \$50,000.00. COR must be included where sub-contract exceeds \$50,000.00. If no sub-contractor is listed, and such work is within scope of contract and over \$50,000.00, bidder's own COR classification(s) must be sufficient to self-perform any such work. If no sub-contractor is listed, then use of sub-contractor to perform such scope will not be permitted. This is in accordance with 5.05 and 5.06 of the Bidder's Checklist.

Mechanical Contractor: _____ Certificate of Responsibility No. _____
Plumbing Contractor: _____ Certificate of Responsibility No. _____
Electrical Contractor: _____ Certificate of Responsibility No. _____

■

**STANDARD FORM OF AGREEMENT BETWEEN
THE OWNER AND THE CONTRACTOR
SECTION 00 5200 R1**

This Agreement made the _____ day of _____, 20____ between the Owner,

Alcorn State University
1000 ASU Drive
Lorman, Mississippi 39096

created by Section 7-1-451 et seq., and Section 31-11-1, et seq., **Mississippi Code of 1972, Annotated**, and acting for the State of Mississippi;
and between the Contractor:

Business Name _____
Address _____
City/State/Zip _____ Phone: _____ Fax: _____ Email: _____

The Contractor is a (check and complete one of the following):

_____ CORPORATION or LLC solely organized and existing under the laws of the State of _____
and having its principal office in _____,
(City) (County) (State)

_____ PARTNERSHIP of the following (list all partners):

_____ SOLE PROPRIETORSHIP

For the following Project:

GS#

This Agreement entered into as of the day and year first written above:

OWNER: Alcorn State University

CONTRACTOR:

By: _____
(Signature)

By: _____
(Signature)

(Name and Title)

(Name and Title)

APPROVED AS TO FORM:

By: _____
(Signature of Attorney)

THE OWNER AND THE CONTRACTOR AGREE AS SET FORTH IN PAGES ONE THROUGH THREE, ARTICLES ONE THROUGH FIVE, AS FOLLOWS:

ARTICLE 1: THE WORK AND CONTRACT DOCUMENTS

THE WORK

1.1.1 The Contractor will perform all the work required by the Contract Documents for the Project indicated above.

1.2 THE CONTRACT DOCUMENTS

1.2.1 The Contract Documents which constitute the entire Agreement between the Owner and the Contractor, are enumerated as follows:

1.2.2 Project Manual dated **May 13, 2026** _____

BIDDING REQUIREMENTS

Advertisement for Bids

Instructions to Bidders

Proposal Form

STANDARD FORM OF AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR

CONTRACT BOND

POWER OF ATTORNEY

CERTIFICATE OF INSURANCE

CONDITIONS OF THE CONTRACT

General Conditions

Supplementary Conditions

Labor Requirements

Addenda

SPECIFICATIONS (check the specs listed on the contents and included in the manual)

Division 1: General Requirements

Division 2: Existing Conditions

Division 3: Concrete

Division 4: Masonry

Division 5: Metals

Division 6: Wood, Plastics and Composites

Division 7: Thermal and Moisture Protection

Division 8: Openings

Division 9: Finishes

Division 10: Specialties

Division 11: Equipment

Division 12: Furnishings

Division 13: Special Construction

Division 14: Conveying Equipment

Division 21: Fire Suppression

Division 22: Plumbing

Division 23: HVAC

Division 25: Integrated Automation

Division 26: Electrical

Division 27: Communications

Division 28: Electronic Safety and Security

Division 31: Earthwork

Division 32: Exterior Improvements

Division 33: Utilities

Division 34: Transportation

Division 35: Waterway and Marine Construction

Division 40: Process Interconnections

Division 41: Material Processing and Handling Equipment

Division 42: Process Heating, Cooling, and Drying Equipment

Division 43: Process Gas and Liquid Handling, Purification, and Storage Equipment

Division 44: Pollution and Waste Control Equipment

Division 45: Industry-Specific Manufacturing Equipment

Division 46: Water and Wastewater Equipment

Division 48: Electrical Power Generation

1.2.3 Addenda

Addendum No. 1, dated _____

Addendum No. 2, dated _____

Addendum No. 3, dated _____

Addendum No. 4, dated _____

Addendum No. 5, dated _____

1.2.4 Drawings dated **May 13, 2026** _____

See Section 005200a for Drawing List

1.2.5.1 Other documents, dated _____

ARTICLE 2: CONTRACT SUM

2.1 CONTRACT SUM

2.1.1 The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order as provided in the Contract Documents, the Contract sum of _____ Dollars

(\$ _____). The Contract sum is determined as follows:

Base Bid			\$ _____
Modifications	<input type="checkbox"/> Adds	<input type="checkbox"/> Deducts	\$ _____
Negotiations			\$ _____
Alternate No. _____	<input type="checkbox"/> Adds	<input type="checkbox"/> Deducts	\$ _____
Alternate No. _____	<input type="checkbox"/> Adds	<input type="checkbox"/> Deducts	\$ _____
Alternate No. _____	<input type="checkbox"/> Adds	<input type="checkbox"/> Deducts	\$ _____
Alternate No. _____	<input type="checkbox"/> Adds	<input type="checkbox"/> Deducts	\$ _____
Alternate No. _____	<input type="checkbox"/> Adds	<input type="checkbox"/> Deducts	\$ _____
Total Contract Sum			\$ _____

2.2 LIQUIDATED DAMAGES

2.2.1 The stipulated liquidated damages described in Paragraph 9.11 of the *General Conditions* are in the amount of **fifteen hundred dollars (\$1,500.00)** for each calendar day.

ARTICLE 3: CONTRACT TIME

3.1 TIME

3.1.1 The work to be performed under this Contract shall be commenced upon the date stated in the *Notice to Proceed*. The work is to be substantially complete, subject to approved Change Orders, no later than **September 19, 2026 for Phase 1 and October 3, 2026 for Phase 2.**

ARTICLE 4: PAYMENTS AND FINAL PAYMENTS

4.1 PROGRESS PAYMENTS

4.1.1 Based upon applications for payment submitted to the Professional by the Contractor and *Certificates for Payment* issued by the Professional, the Owner will make progress payments on account of the Contract sum to the Contractor as provided in the Contract Documents.

4.2 FINAL PAYMENT

4.2.1 Final payment constituting the entire balance of the Contract sum will be paid by the Owner to the Contractor when the work has been completed, the Contract fully performed and a final Certificate for Payment has been issued by the Professional and approved by the Owner.

ARTICLE 5: MISCELLANEOUS PROVISION

5.1 DEFINITION OF TERMS

5.1.1 Terms used in this Agreement which are defined in the General, Supplementary, and Special Conditions of the Contract will have the meanings designated in those Conditions.

5.2 CONTRACTOR'S INTEREST IN AGREEMENT

5.2.1 The Contractor will not assign, sublet, or transfer the interest in this Contract agreement without the written consent of the Owner. The Owner and Contractor hereby agree to the full performance of the covenants contained herein.

5.3 PROFESSIONAL

5.3.1 The Professional assigned to this Project is as follows:

Jared Pierce, AIA (Principal in Charge)
CCD Architects
Jackson, Mississippi 39201
(601) 948-7337 ext. 245
jared@ccdarchitects.com

*** END OF SECTION ***

SECTION 011126 - PROJECT SEQUENCING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section sets forth specific sequencing requirements of the work.
- B. Work of Phases shall be completed by the time indicated on the Proposal Form.

1.2 PHASES

- A. Phase 1 shall include all Work in Main Concourse 200, Womens 201, Mens 202, Mens 205, and Womens 206. Work of this phase shall commence with the Owner's issue of a Notice to Proceed and shall be completed no later than September 19, 2026.
- B. Phase 2 shall include all Work in Womens 203 and Mens 204. Work of this phase shall not commence before August 30, 2026 and shall be completed no later than October 3, 2026.

PART 2 - PRODUCTS NOT USED

PART 3 - EXECUTION NOT USED

END OF SECTION 011126

SECTION 224000 R1 - PLUMBING FIXTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Water closets.
- B. Lavatories.
- C. Urinals
- D. Floor Drains
- E. Electric Drinking Fountains (Refrigerated)

1.02 RELATED REQUIREMENTS

- A. Section 079200 - Joint Sealants: Sealing joints between fixtures and walls and floors.
- B. Section 221005 - Plumbing Piping.
- C. Section 221006 - Plumbing Piping Specialties.
- D. Section 223000 - Plumbing Equipment.
- E. Section 260583 - Wiring Connections: Electrical characteristics and wiring connections.

1.03 REFERENCE STANDARDS

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design 2010.
- B. ASHRAE Std 18 - Methods of Testing for Rating Drinking-Water Coolers with Self-Contained Mechanical Refrigeration. 2013.
- C. ASME A112.18.1 - Plumbing Supply Fittings 2018.
- D. ASME A112.19.5 - Flush Valves and Spuds for Water Closets, Urinals, and Tanks 2017.
- E. ASSE 1070 - Performance Requirements for Water Temperature Limiting Devices 2015.
- F. ASTM D570 - Standard Test Method for Water Absorption of Plastics 1998 (Reapproved 2010).
- G. ASTM D638 - Standard Test Method for Tensile Properties of Plastics 2014.
- H. ASTM D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between - 30 C and 30 C with a Vitreous Silica Dilatometer 2016.
- I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2018b.
- J. IAPMO Z124 - Plastic Plumbing Fixtures 2017.
- K. NSF 61 - Drinking Water System Components - Health Effects 2017.
- L. NSF 372 - Drinking Water System Components - Lead Content 2016.

1.04 SUBMITTALS

Renovations to Main Concourse

Restrooms and Doors

Jack Spinks – Marino Casem Stadium

224000 R1

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CCD Project No. 26013

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide catalog illustrations of fixtures, sizes, rough-in dimensions, utility sizes, trim, and finishes.
- C. Samples: Submit two lavatory supply fittings.
- D. Manufacturer's Instructions: Indicate installation methods and procedures.
- E. Sustainable Design Documentation: Submit appropriate evidence that materials used in potable water systems comply with the specified requirements.
- F. Maintenance Data: Include fixture trim exploded view and replacement parts lists.
- G. Waterless Urinals: Submit recommended frequency of maintenance and parts replacement, methods of cleaning, sources of replacement supplies and parts.
- H. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

1.06 REGULATORY REQUIREMENTS

- A. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Accept fixtures on site in factory packaging. Inspect for damage.
- B. Protect installed fixtures from damage by securing areas and by leaving factory packaging in place to protect fixtures and prevent use.

1.08 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Provide five year manufacturer warranty for electric water cooler.

PART 2 PRODUCTS

2.01 GENERAL

- A. Potable Water Systems: Provide plumbing fittings and faucets that comply with NSF 61 and NSF 372 for maximum lead content; label pipe and fittings.
- B. Water Efficiency: EPA WaterSense label is required for all water closets, urinals, lavatory faucets, and showerheads.

2.02 FLUSH VALVE WATER CLOSETS

- A. BASE BID:
 - 1. WC-1: (Water Closet Flush Valve and Seat): Provide Zurn (Z6000AV) manual water closet flush valve, contractor to coordinate flow requirements with existing fixtures. Beneke (523-CH-SS) open front, elongated seat with stainless

steel hinges and posts. Coordinate with Architectural elevations for exact mounting height.

2. WC-2: (Water Closet ADA): Provide Zurn (Z6000AV) manual water closet flush valve, contractor to coordinate flow requirements with existing fixtures. Beneke (523-CH-SS) open front, elongated seat with stainless steel hinges and posts. Coordinate with Architectural elevations for exact mounting height.

B. ADD ALTERNATE (FURNISHED BY OWNER):

1. WC-1: (Water Closet): Kohler Kingston Ultra (K-84325-L-0) wall hung, vitreous china, 1-1/2" top spud, elongated closet bowl with 2-1/8 inch passageway. Provide Zurn (Z6000AV) 1.6 gpf manual water closet flush valve. Beneke (523-CH-SS) open front, elongated seat with stainless steel hinges and posts. Coordinate with Architectural elevations for exact mounting height.
2. WC-2: (Water Closet ADA): Kohler Kingston Ultra (K-84325-L-0) wall hung, vitreous china, 1-1/2" top spud, elongated closet bowl with 2-1/8 inch passageway. Provide Zurn (Z6000AV) 1.6 gpf manual water closet flush valve. Beneke (523-CH-SS) open front, elongated seat with stainless steel hinges and posts. Coordinate with Architectural elevations for exact mounting height.

2.03 LAVATORIES

A. BASE BID:

1. L-1: (ADA Compliant Lavatory): Solid Surface Sink (specified by Architect), provide with Zurn (Z86100-XL) metered faucet with ½ GPM aerator, Kohler (K-13885) 1-1/4" offset drain assembly with open strainer, K-7608, 3/8 inch supplies with stop. K-8998, 1-1/4 inch adjustable trap. Provide with Powers Hydroguard (LFLM495) manual thermostatic mixing valve.

2.04 URINALS

A. BASE BID:

1. U-1 (Urinal Flush Valve): Provide Zurn (Z6003AV) Urinal manual flush valve, contractor to coordinate flow requirements with existing fixtures. Coordinate with Architectural elevations for exact height.
2. U-2 (ADA Compliant Urinal Flush Valve): Provide Zurn (Z6003AV) Urinal manual flush valve, contractor to coordinate flow requirements with existing fixtures. Mount at handicap height. Coordinate with Architectural elevations for exact height.

B. ADD ALTERNATE(FURNISHED BY OWNER):

1. U-1 (Urinal): Kohler Stanwell (K4972T) vitreous china, wall hung, blow out urinal with jet, integral flushing rim, integral trap, wall hangers and Zurn (Z6003AV) Urinal manual flush valve 1/2 GPF flow, Zurn Model Z-1222 floor carrier. Coordinate with Architectural elevations for exact height.
2. U-2 (ADA Compliant Urinal): Kohler Stanwell (K4972T) vitreous china, wall hung, blow out urinal with jet, integral flushing rim, integral trap, wall hangers and Zurn (Z6003AV) Urinal manual flush valve 1/2 GPF flow, Zurn Model Z-1222 floor carrier. Mount at handicap height. Coordinate with Architectural elevations for exact height.

2.05 ELECTRIC DRINKING FOUNTAIN

A. BASE BID:

1. EDF-1 (Electric Drinking Fountain): Elkay model (EZWS-EDFPBM114K) non-refrigerated, stainless steel, Bottle Filling station with integral fountain. Fixture to be connected to remote cooler in serving restroom. Provide Zurn (Z1225) in wall carrier with rectangular tubing. Coordinate with Architectural elevations for exact height.
2. EDF-2 (ADA Compliant Electric Drinking Fountain): Elkay model (EZWS-EDFPBM114K) non-refrigerated, stainless steel, Bottle Filling station with integral fountain. Fixture to be connected to remote cooler in serving restroom. Provide Zurn (Z1225) in wall carrier with rectangular tubing. Mount at handicap height. Coordinate with Architectural elevations for exact height.

2.06 FLOOR DRAIN

A. BASE BID:

1. FD-1 (Floor Drain Strainer): Nickel bronze strainer from Zurn or equivalent manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that walls and floor finishes are prepared and ready for installation of fixtures.
- B. Verify that electric power is available and of the correct characteristics.
- C. Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

3.02 PREPARATION

- A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture rough-in schedule for particular fixtures.

3.03 INSTALLATION

- A. Install each fixture with trap, easily removable for servicing and cleaning.
- B. Provide chrome plated rigid or flexible supplies to fixtures with loose key stops, reducers, and escutcheons.
- C. Install components level and plumb.
- D. Install and secure fixtures in place with wall supports and bolts.
- E. Solidly attach water closets to floor with lag screws. Lead flashing is not intended hold fixture in place.

3.04 INTERFACE WITH WORK OF OTHER SECTIONS

- A. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

3.05 ADJUSTING

- A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.

3.06 CLEANING

- A. Clean plumbing fixtures and equipment.
- B. See Section 017419 - Construction Waste Management and Disposal, for additional requirements.

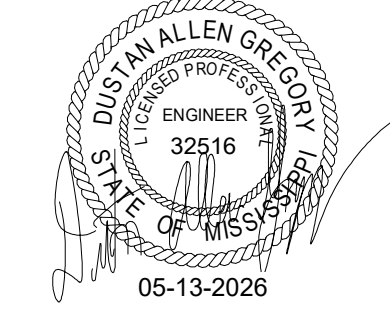
3.07 PROTECTION

- A. Protect installed products from damage due to subsequent construction operations.
- B. Do not permit use of fixtures by construction personnel.
- C. Repair or replace damaged products before Date of Substantial Completion.

3.08 SCHEDULES

- A. Fixture Heights: Install fixtures to heights above finished floor as indicated.
 - 1. Water Closet:
 - a. Standard: 15 inches to top of bowl rim.
 - b. Accessible: 18 inches to top of seat.
 - 2. Lavatory:
 - a. Standard: 31 inches to top of basin rim.
 - b. Accessible: 34 inches to top of basin rim.
- B. Fixture Rough-In
 - 1. Water Closet (Tank Type):
 - a. Cold Water: 1/2 Inch.
 - b. Waste: 4 Inch.
 - c. Vent: 2 Inch.
 - 2. Lavatory:
 - a. Hot Water: 1/2 Inch.
 - b. Cold Water: 1/2 Inch.
 - c. Waste: 1-1/2 Inch.
 - d. Vent: 1-1/4 Inch.

END OF SECTION 224000 R1



NON PRESSURE SPECIFICATIONS NOTE

- SANITARY AND VENT PIPING SHALL BE SCHEDULE 40 PVC, ASTM 2665. PIPING INSTALLED IN RETURN PLENUM SHALL BE WRAPPED WITH ASTM E 84 RATED INSULATION
- CONNECT TO EXISTING SANITARY PIPING AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONFIRM EXACT SIZE, LOCATION, INVERT, AND DIRECTION OF FLOW OF EXISTING PIPING PRIOR TO INSTALLING ANY NEW PIPING.
- PIPING TO BE INSTALLED PER REQUIREMENTS OF LOCAL CODES (IF NO LOCAL PLUMBING CODE IS IN EFFECT, INTERNATIONAL PLUMBING CODE SHALL BE USED)

PRESSURE SPECIFICATIONS NOTE

- ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER, ASTM B 88
- BELOW GROUND WATER PIPING SHALL BE PEX "A" EQUAL TO UPONOR. NO JOINTS INSTALLED BELOW SLAB
- CONNECT TO EXISTING SANITARY PIPING AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONFIRM EXACT SIZE, LOCATION, INVERT, AND DIRECTION OF FLOW OF EXISTING PIPING PRIOR TO INSTALLING ANY NEW PIPING
- PIPING TO BE INSTALLED PER REQUIREMENTS OF LOCAL CODES (IF NO LOCAL PLUMBING CODE IS IN EFFECT, INTERNATIONAL PLUMBING CODE SHALL BE USED)
- A. FURNISH AND INSTALL INSULATION FOR THE FOLLOWING PIPING SYSTEMS AND EQUIPMENT. ALL INSULATION AND INSULATING MATERIALS, EXCEPT AS HEREIN SPECIFIED, SHALL BE AS MANUFACTURED BY KNAUF, OWENS-CORNING COMPANY, OR MANVILLE. INSULATION ADHESIVES, SEALERS, CEMENTS, MASTICS, AND OTHER SIMILAR ITEMS, EXCEPT AS HEREIN SPECIFIED, SHALL BE MANUFACTURED BY HB FULLER, MON-ECO, CHILDERS, OR VIMASCO. SAME TYPE INSULATION MATERIALS SHALL BE USED CONSISTENTLY THROUGHOUT THE ENTIRE INSTALLATION. THICKNESSES SHALL BE "1".
- PIPING INSULATION SHALL BE "HEAVY DENSITY" 1-PIECE MOLDED FIBERGLASS WITH FACTORY APPLIED TYPE A888SS "ALL SERVICE" JACKET WITH SELF-SEALING LAP. AVERAGE THERMAL CONDUCTIVITY SHALL NOT EXCEED .25 BTU-IN. PER SQUARE FOOT PER DEGREE FAHRENHEIT PER HOUR AT A MEAN TEMPERATURE OF 75 DEGREES. THICKNESS SHALL CONFORM TO SCHEDULE FOR PIPE SIZE AND SERVICE AS SPECIFIED HEREIN.
- VAPOR-BARRIER JACKET FOR THE FIBERGLASS SYSTEM SHALL BE WHITE KRAFT PAPER BONDED TO ALUMINUM FOL AND REINFORCED WITH GLASS FIBER, AND PRESSURE SENSITIVE, SELF-SEALING LAP ADHESIVE CONFORMING TO THE PHYSICAL PROPERTIES LISTED BELOW
- THE FIBERGLASS INSULATING SYSTEM, INCLUDING INSULATION, JACKET ADHESIVES, MASTICS AND CEMENTS, SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER PROCEDURE ASTM E-84, NFPA 265, AND UL 723. NOT EXCEEDING: FLAME SPREAD - 25, FUEL CONTRIBUTED - 50, SMOKE DEVELOPED -50.
- FITTINGS FOR THE FIBERGLASS SYSTEM SHALL ALSO BE 25/50/50 RATED AS DESCRIBED IN THE PRECEDING PARAGRAPH
- AEROFLEX, NOMACO-FLEX, OR APPROVED EQUIVALENT, 25/50 RATED, WILL BE ACCEPTABLE FOR ROLLED OR STRAIGHT LENGTHS OF PEX TUBING AND FITTINGS ONLY.

SHEET LIST - PLUMBING

SHEET NUMBER	SHEET NAME
P001 R1	PLUMBING LEGENDS AND NOTES
PD101	FLOOR PLANS - DEMOLITION
PD102	FLOOR PLANS - DEMOLITION
PD103	FLOOR PLANS - DEMOLITION
P101	FLOOR PLANS - PLUMBING
P102	FLOOR PLANS - PLUMBING
P103	FLOOR PLANS - PLUMBING

GENERAL NOTES:

- THE DRAWINGS MAY NOT SHOW ALL EXISTING ITEMS OR CONDITIONS. CONTRACTOR SHALL NOT RECEIVE EXTRA PAYMENT FOR REQUIREMENTS WHICH CAN BE INFERRED THROUGH OBSERVATION OF EXISTING CONDITIONS AT THE SITE. IN THE EVENT CONCEALED CONDITIONS ARE ENCOUNTERED WHICH MAY VARY SIGNIFICANTLY FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH WORK.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND FIELD VERIFY ALL POINTS OF CONNECTING TO BACK FEED EXISTING PIPING TO SUBMITTING A BID.
- CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.
- CONTRACTOR SHALL FIELD VERIFY BY MEASUREMENT THE EXACT LOCATION OF EXISTING EQUIPMENT, PIPING, STRUCTURE AND OTHER CONDITIONS WHICH WILL AFFECT INSTALLATION. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH EXISTING FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.
- PROVIDE SHUT OFF VALVES AT ALL CONNECTIONS BETWEEN NEW AND EXISTING ON WATER AND GAS LINES.
- COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING TO MATCH EXISTING.
- COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF ROOF WHERE ROOF DRAINS AND VENTS THRU ROOF ARE REMOVED.
- WHERE CHASES ARE REMOVED, OFFSET ALL EXISTING LINES TO NEW CHASES OR WALLS AND RECONNECT ABOVE CEILING AND BELOW FLOOR AS REQUIRED.
- ALL EXISTING SYSTEMS TO REMAIN IN SERVICE SHALL BE BACKFED AND RESTORED TO FULL OPERATION.
- EXISTING FIXTURES TO REMAIN WITHIN THE RENOVATION AREAS SHALL BE CLEANED AFTER CONSTRUCTION.
- PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.
- FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.
- INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 80 FT.
- EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVICES.
- ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.
- ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.
- ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.
- CONTRACTOR SHALL OFFER ALL REMOVED PLUMBING FIXTURES TO OWNER. CONTRACTOR SHALL DISPOSE OF ALL FIXTURES NOT ACCEPTED BY OWNER OFFSITE.
- REMOVE ALL PLUMBING FIXTURES SHOWN IN HATCHED AREAS. CAP WASTE PIPING BELOW FLOOR AND REMOVED ALL WATER PIPING SERVING PLUMBING FIXTURE BEING REMOVED. WASTE PIPING WHICH IS TO BE REUSED SHALL BE CLEANED AND ROODED. PATCH FLOOR TO MATCH EXISTING.
- COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL PENETRATION WHERE WALL MOUNTED ITEMS ARE REMOVED.
- ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"x18"x16" THICK CONCRETE PAD.
- WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
- ALL HORIZONTAL GAS, AIR, WATER, AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
- ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
- COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
- ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 18" ABOVE FINISHED GRADE OR FINISHED FLOOR UNLESS NOTED OTHERWISE.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
- NO VENT THRU ROOF IS TO BE LOCATED WITHIN 25 FEET OF ANY BUILDING AIR INTAKES. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
- DOMESTIC WATER AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
- CONTRACTOR SHALL COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL AND PLUMBING EQUIPMENT PRIOR TO INSTALLATION.
- PROVIDE SHOCK ARRESTORS AT ALL PLUMBING DROPS. SIZE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE SHUTDOWN WITH OWNER. NOTIFY OWNER 24 HOURS PRIOR TO INTENDED SHUTDOWN. SHUTDOWN IS INTENDED FOR FINAL CONNECTION OF NEW VACUUM PUMP AND AIR COMPRESSOR ONLY. ALL OTHER CONSTRUCTION TO BE DONE PRIOR TO FINAL SHUTDOWN. LIMIT SERVICE INTERRUPTION AND PROVIDE OWNER APPROVAL OF INTERRUPTION DURATION. PROVIDE TEMPORARY SERVICES AS NEEDED DURING SHUTDOWN TO KEEP EXISTING SYSTEMS IN OPERATION.
- ALL MEDICAL GAS PIPING SHALL BE LABELED AND INSTALLED IN ACCORDANCE WITH NFPA 99 AND APPLICABLE PLUMBING CODES. ALL WORK TO BE PERFORMED IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES OF THE MEDICAL FACILITY.
- MEDICAL GAS INSTALLER SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE WITH COMPARABLE PROJECTS. CONTRACTOR SHALL BE A LICENSED MEDICAL GAS INSTALLER. ALL MEDICAL GAS PIPING SHALL BE SUPPORTED PER NFPA 99. MEDICAL GAS SYSTEM TO BE TESTED AND CERTIFIED.
- LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
- CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
- CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
- PROVIDE DISINFECTANT OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
- INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
- ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
- ALL FLOOR DRAINS AND INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS WITH TRAP SEAL PROTECTION AS APPROVED BY LOCAL AUTHORITY.
- ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
- INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
- THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE 18" FROM FINISH WALL TO CENTER OF WATER CLOSET.
- WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
- COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
- NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS, MAINTAIN ALL REQUIRED CLEARANCES.
- CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
- MAINTAIN A MAXIMUM OF 55 PSIG WATER PRESSURE AT PLUMBING FIXTURES, CONSISTENT WITH ADEQUATE FLOW RATES.
- VENTS THRU ROOF MUST BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE.
- SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
- ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
- OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
- DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

REMOTE CHILLER SCHEDULE

ACCESSORIES:
1. ON-WALL CHILLER SHELF FOR USE WITH 80PH CHILLERS
2. UNIVERSAL FILTRATION KIT (1,500 GALLON)

MARK	NO. OF STATIONS SERVED	INSTALLATION LOCATION	CHILLING CAPACITY	ELECTRICAL					WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
				V	PH	HZ	WATTS	FLA			
RC-1	2	INDOOR	8.0 GPH	120	1	60	370	5	43	1.2	ELKAY MODEL ECH8

PLUMBING FIXTURE ROUGH-IN SCHEDULE

MARK	DESCRIPTION	PIPE SIZE				C.W.	H.W.	BASE BID BID REMARKS	ADD ALTERNATE BID BID REMARKS
		TRAP	WASTE	VENT	1"				
WC-1	WATER CLOSET	4"	4"	2"	1"	---	FLUSH VALVE FOR EXISTING WATER CLOSET AND HEAVY DUTY SEAT	WALL HUNG WATER CLOSET WITH FLUSH VALVE SEAT AND ALL ACCESSORIES (FIXTURE PROVIDED BY OWNER)	
WC-2	WATER CLOSET	4"	4"	2"	1"	---	FLUSH VALVE FOR EXISTING WATER CLOSET AND HEAVY DUTY SEAT / ADA HEIGHT	WALL HUNG WATER CLOSET WITH FLUSH VALVE SEAT AND ALL ACCESSORIES/ADA HEIGHT (FIXTURE PROVIDED BY OWNER)	
U-1	URINAL	2"	2"	2"	1"	---	FLUSH VALVE FOR EXISTING URINAL	WALL HUNG URINAL WITH FLUSH VALVE SEAT AND ALL ACCESSORIES (FIXTURE PROVIDED BY OWNER)	
U-2	URINAL	2"	2"	2"	1"	---	FLUSH VALVE FOR EXISTING URINAL / ADA HEIGHT	WALL HUNG URINAL WITH FLUSH VALVE SEAT AND ALL ACCESSORIES/ADA HEIGHT (FIXTURE PROVIDED BY OWNER)	
L-1	LAVATORY	1-1/4"	2"	2"	1/2"	1/2"	FAUCET MOUNTED ON SOLID SURFACE COUNTER BY ARCHITECT. PROVIDE TRAPS, TAIL PIECE, WATER CONNECTIONS, STOPS AND COVERS. (FLOOR DRAIN STRAINER)	FAUCET MOUNTED ON SOLID SURFACE COUNTER BY ARCHITECT. PROVIDE TRAPS, TAIL PIECE, WATER CONNECTIONS, STOPS AND COVERS. (FLOOR DRAIN STRAINER)	
FD-1	FLOOR DRAIN	4"	4"	2"	---	---		FLOOR DRAIN STRAINER	
EDF-1	ELECTRIC DRINKING FOUNTAIN	2"	2"	---	3/4"	---	DRINKING FOUNTAIN/ADA WITH REMOTE CHILLER (RC-1)	DRINKING FOUNTAIN/ADA WITH REMOTE CHILLER (RC-1)	

PLUMBING LEGEND

SYMBOL/DESIGNATION	DESCRIPTION
-----RL-----	EXISTING RAIN LEADER PIPING
-----SS-----	EXISTING SANITARY WASTE PIPING
-----GW-----	EXISTING SANITARY VENT PIPING
-----AW-----	EXISTING GREASE WASTE PIPING
-----F-----	EXISTING ACID PIPING
-----G-----	EXISTING FIRE PROTECTION WATER PIPING
-----MPC-----	EXISTING LOW PRESSURE GAS PIPING
-----PCW-----	EXISTING MEDIUM PRESSURE GAS PIPING
-----PHW-----	EXISTING POTABLE COLD WATER PIPING
-----PHWR-----	EXISTING POTABLE HOT WATER PIPING
-----PHWR(140)-----	EXISTING POTABLE HOT WATER RETURN PIPING
-----PHWR(140)-----	EXISTING 140 POTABLE HOT WATER PIPING
-----PHWR(140)-----	EXISTING 140 POTABLE HOT WATER RETURN PIPING
-----SL-----	EXISTING MEDIUM PRESSURE GAS PIPING
-----G-----	EXISTING REFRIGERANT SUCTION AND LIQUID PIPING
-----S-----	NEW MEDIUM PRESSURE GAS PIPING
-----RL-----	NEW LOW PRESSURE GAS PIPING
-----SS-----	NEW SITE STORM DRAIN PIPING
-----SS-----	NEW RAIN LEADER PIPING
-----SS-----	NEW SANITARY WASTE PIPING
-----SS-----	NEW SANITARY VENT PIPING
-----SS-----	NEW POTABLE COLD WATER PIPING
-----SS-----	NEW POTABLE HOT WATER PIPING (120°F)
-----SS-----	NEW POTABLE RECIRCULATING HOT WATER PIPING (120°F)
-----SS-----	NEW POTABLE TEMPERATE WATER
-----SS-----	NEW POTABLE HOT WATER PIPING (140°F)
-----SS-----	NEW POTABLE RECIRCULATING HOT WATER PIPING (140°F)
-----SS-----	NEW CONDENSATE DRAIN PIPING
-----SS-----	NEW REFRIGERANT SUCTION AND LIQUID PIPING
-----SS-----	FULL PORT BALL VALVE (LEAD FREE)
-----SS-----	GAS COCK
-----SS-----	UNION
-----SS-----	CHECK VALVE
-----SS-----	TYPICAL FINISHED GRADE CLEANOUT
-----SS-----	PRESSURE REDUCING VALVE
-----SS-----	BUTTERFLY VALVE
-----SS-----	AUTOMATIC CONTROL VALVE (2-WAY)
-----SS-----	AUTOMATIC CONTROL VALVE (3-WAY)
-----SS-----	SOLENOID VALVE
-----SS-----	HOSE BIBB
-----SS-----	WALL CLEANOUT
-----SS-----	POINT OF CONNECTION TO EXISTING
-----SS-----	NEW SANITARY SEWER MANHOLE
-----SS-----	TYPICAL NATURAL GAS REGULATOR AND/OR METER
-----SS-----	NEW POST INDICATOR VALVE
-----SS-----	NEW POST TYPE FIRE DEPARTMENT CONNECTION 6" x 2-1/2" x 2-1/2" x 2-1/2"
-----SS-----	TYPICAL NEW DEEP SHUTOFF VALVE IN TELESCOPIC CAST IRON VALVE BOX WITH COVER LABELED "WATER"
-----SS-----	TYPICAL NEW SHALLOW SHUTOFF VALVE IN CAST IRON VALVE BOX WITH COVER LABELED "WATER"
-----SS-----	TYPICAL NEW FULL LINE SIZE COMPOUND WATER METER WITH FULL PORT BALL VALVES ON EITHER SIDE
-----SS-----	THRUST BLOCKING
-----SS-----	BACKFLOW PREVENTER
-----SS-----	FLOOR DRAIN
-----SS-----	FLOOR SINK
-----SS-----	HOT WATER
-----SS-----	COLD WATER
-----SS-----	WASTE
-----SS-----	VENT
-----SS-----	ABOVE CEILING
-----SS-----	BELOW SLAB
-----SS-----	BELOW FLOOR
-----SS-----	ABOVE FINISHED GRADE
-----SS-----	BELOW FINISHED GRADE
-----SS-----	IN WALL
-----SS-----	DOWN
-----SS-----	FINISHED FLOOR CLEANOUT
-----SS-----	FINISHED GRADE CLEANOUT
-----SS-----	ACID WASTE FINISHED FLOOR CLEANOUT
-----SS-----	ACID WASTE FINISHED GRADE CLEANOUT
-----SS-----	VENT THRU ROOF
-----SS-----	ABOVE FINISHED FLOOR
-----SS-----	CLEANOUT
-----SS-----	ROOF DRAIN

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