ADDENDUM
NO. 3

June 2, 2020

Additions & Renovations to Lawrence Central High School
7300 E.56th St.
Indianapolis, IN 46226

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and Drawings dated May 5, 2020, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 3-1 through ADD 3-2, Specification Section 00 11 00 Responsible Bidder Form, Specification Section 00 31 00 – Bid Form and attached Schmidt Associates Addendum No. 3, dated June 2, 2020 consisting of 21 pages, Drawing Sheets: S-416, AD1K1, AR001 and A-213.

A. **SPECIFICATION SECTION 00 11 00 SCHOOL BOARD RESOLUTION**

Responsible Bidder Form is attached to this addendum. **Fill out and submit with your bid**.

B. **SPECIFICATION SECTION 00 31 00 BID FORM**

Bid Form is attached to this addendum.

C. **SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY**

A. BID CATEGORY NO. 2 - GENERAL TRADES

Add the following Clarifications:

BC #2 Contractor is responsible to caulk their HM Frames.

B. BID CATEGORY NO. 13 – CASEWORK

Add the following Clarification:

Bid Category #13 Contractor is responsible to furnish and install all Solid Surfacing material.

C. BID CATEGORY NO. 14 – KITCHEN EQUIPMENT

Add the following Specification Sections:

02 41 19 – Selective Demolition (As applicable to the Kitchen Equipment).

D. BID CATEGORY NO. 17 - MECHANICAL

Add the following Specification Section:

26 29 23 – Variable Frequency Motor Controllers (Furnished by **BC#17 Contractor** and Installed and powered by **BC#19 Contractor**).

Add the following Clarification:

MSD of Lawrence Township utilizes Chardon Labs Water Services Group for their water treatment. **BC#17 Contractor** is to use Chardon to provide water treatment for the new and existing systems throughout the project. **BC#17 Contractor** is to include monies for drains and fills of the system, as necessary. Contact Mike Heirbrandt at Chardon 765-617-5193.

E BID CATEGORY NO. 19 – ELECTRICAL AND TECHNOLOGY

Add the following Clarifications:

26 29 23 – Variable Frequency Motor Controllers (Furnished by **BC#17 Contractor** and Installed and powered by **BC#19 Contractor**).

F. SPECIFICATION SECTION 01 23 00 ALTERNATES

Add Alternate:

Alternate 2c: HVAC Controls – Automated Logic - EMCOR

1. Base Bid: No HVAC Controls.
2. State the cost to provide HVAC controls by Automated Logic by EMCOR.

MSD of Lawrence Township

Responsible Bidding Practices Submission Form

Project: Lawrence Central High School

Bid Opening Date: _____

Bid Opening Time: _____

Name of Contractor: _____

Address: _____

Telephone No.: _____

Name of Primary Contact: _____

Category of Work: _____

Date of Submission: _____

Contractors proposing to submit bids on any MSD of Lawrence Township projects estimated to be at least three hundred thousand dollars ($300,000) or more must, prior to the opening of bids or with the sealed bid, submit a statement made under oath and subject to perjury laws, the following:

A. Attach to this form, a copy of a print-out of the Indiana Secretary of State's on-line records for the bidder dated within sixty (60) days of the submission of said document showing that the bidder is in existence, current with the Indiana Secretary of State's Business Entity Reports, and eligible for a certificate of good standing. If the bidder is an individual, sole proprietor or partnership, this section shall not apply.

B. List all former business names:

_____

_____

_____

_____

C. Provide violations of federal, state, or local laws as determined by a court or governmental agency (Not limited to violations of contracting or antitrust laws, tax or licensing laws, environmental laws, the Occupational Safety and health Act):

_____

_____

_____

_____

_____

_____

D. Provide a written statement on staffing capabilities, including labor sources:

_____

_____

_____

_____

_____

_____

_____

E. Attach to this form, evidence of participation in apprenticeship and training programs, applicable to the work to be performed on the project, which are approved by and registered with the United States Department of Labor's Office of Apprenticeship, or its successor organization. Include all applicable apprenticeship certificates or standards for these training programs.

F. Attach to this form, a copy of a written plan for employee drug testing that covers all employees of the bidder who will perform work on the public work project and meets, or exceeds, the requirements set forth in IC 4-13-18-5 or IC 4-13-18-6.

G. Provide the name and description of the management experience of each of the bidder's project managers and superintendents that bidder intends to assign to work on the project:

_____

_____

_____

_____

_____

H. Attach to this form, proof of any professional or trade license required by law for any trade or specialty area in which bidder is seeking a contract award; and disclosure of any suspension or revocation within the previous five years of any professional or trade license held by the company, or of any director, office or manager employed by the bidder.

I. Attach to this form, evidence that the contractor is utilizing a surety company which is on the United States Department of Treasury's Listing of Approved Sureties.

J. Provide a written statement of any federal, state or local tax liens or tax delinquencies owed to any federal, state or local taxing body in the last five years:

_____

_____

_____

_____

Print: _____

Signature: _____

Title: _____

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for MSDLT)

Additions and Renovations to Lawrence Central High School

MSD of Lawrence Township
Marion County, Indiana

PART I

(To be completed for all bids. Please type or print)

Date (month, day, year):_____

BIDDER (Firm) _____

Address _____ P.O. Box _____

City/State/Zip ___

Telephone Number: _____ Email Address: _____

Person to contact regarding this Bid_____

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

_____
Insert Category No. (s) and Name(s)

Of public works project, **Additions and Renovations to Lawrence Central High School**, in accordance with Plans and Specifications prepared by Schmidt Associates, 415 Massachusetts Ave., Indianapolis, IN 46204, as follows:

BASE BID

For the sum of _____
(Sum in words)

_____DOLLARS ($_____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:
Receipt of Addenda No. (s) _____

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO_____

Has visited the jobsite YES _____ NO_____

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent
Of the schedule can be met. YES _____ NO_____

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included XBE: DBE: YES _____% NO _____
MBE: YES _____% NO _____
WBE: YES _____% NO _____
VBE: YES _____% NO _____

Bidder has included their Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6. YES _____ NO_____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit bases, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS
(if applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

****MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE****

Alternate Bid No. 1 – Skylights

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2a – HVAC Controls – Automated Logic

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2b – HVAC Controls - Alerton

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2c – HVAC Controls – Automated Logic-EMCOR

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 3 – Belden Brick

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 4 – Irrigation System

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 5a – Exterior Painting – Metal Wall Panel

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 5b – Exterior Painting - EIFS

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 6 – 20 Year RoofSMART Quality Assurance Warranty

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 7 – Condensing Boilers Manufacturer

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 8 – Air-Cooled Rotary Screw Water Chillers Manufacturer

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 9 – Modular Indoor Central-Station Air Handling Units Manufacturer

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 10 – Vertical Unit Ventilators Manufacturer

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 11 – Victaulic

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

PART II
(For projects of $150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?_____If so, where and why?

_____

_____

_____

4. List references from private firms for which you have performed work.

_____

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

_____

_____

_____

_____

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

_____

_____

_____

_____

3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will required a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

_____

_____

_____

_____

4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

_____

_____

_____

_____

5. Have you into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which corroborate the process listed.

_____

_____

_____

_____

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT

Dated at _____this _____ day of _____, 20

_____
(Name of Organization)

By
_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named
_____

Swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____,
_____
(Title)

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

END OF SECTION 00 31 00

ADDENDUM NO. 3
JUNE 2, 2020

PREPARED BY SCHMIDT ASSOCIATES FOR:
LAWRENCE CENTRAL HIGH SCHOOL RENOVATION
LAWRENCE TOWNSHIP, M.S.D. OF

This Addendum consists of 21 Addendum pages and 8 attachment pages totaling 29 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 04 – MASONRY

A. Section 042000 "UNIT MASONRY"

1. DELETE Subparagraphs 2.5 B. 6. a. 2) b), c), and d) in their entirety and replace with the following:

   "b) Bowerston – Sunset Flash W/C
   c) Sioux City Brick (a Glen-Gery Company) - Toasted Fine Art Velour
   d) Watsontown Brick Company – Landover Dark KT, Type 7 "

2. DELETE Subparagraph 2.5 B. 6. b. 2) d) in its entirety and replace with the following:
   "d) Watsontown Brick Company – Slate"

2.2 DIVISION 05 – METALS

A. Section 057500 "DECORATIVE FORMED METAL"

1. ADD Subparagraph 2.3 A. 3. as follows:

   "3. SAF, Inc"

2. ADD Subparagraphs 2.4 A. 3. and 4. as follows:
   "3. Architectural Grilles & Sunshades, Inc (AGS)
   4. Industrial Louvers, Inc. - Custom Fins"

2.3 DIVISION 06 – WOODS, PLASTICS, AND COMPOSITES

A. Section 064023 "INTERIOR ARCHITECTURE MILLWORK"

1. DELETE Subparagraph 1.2 A. 1. In Its Entirety.

2. MODIFY Subparagraph Text 1.2 B. 3 As Follows:
   "Section 123200…"

2.4 DIVISION 08 – OPENINGS

A. Section 081113 "HOLLOW METAL DOORS AND FRAMES"

1. ADD Subparagraph 2.1 A. 4. as follows:
   "4. Metal Products Inc. (MPI)."

B. Section 084113 "ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS"

1. DELETE Paragraph 2.10 B. and associated subparagraph in its entirety.

C. Section 088000 "GLAZING"

1. DELETE Paragraph 3.8 A. in its entirety and replace with the following:
   "A. Glass Type LG-1: Clear laminated glass with two plies of heat strengthened float glass.
      1. Minimum Thickness of Each Glass Ply: 3 mm.
      2. Interlayer thickness: .060 inch (16 mm) minimum."

2. DELETE Paragraph 3.9 D. 5. b. and associated subparagraphs in its entirety and replace with the following:
   "b. Interlayer thickness: .060 inch (16 mm) minimum."

3. DELETE Paragraph 3.9 E. 6. b. and associated subparagraphs in its entirety and replace with the following:
   "b. Interlayer thickness: .060 inch (16 mm) minimum."

2.5 DIVISION 09 – FINISHES

A. Section 095113 "ACOUSTICAL PANEL CEILINGS"

1. DELETE Subparagraph 1.5 A. 3. in its entirety and replace with the following:

   "3. Hold-Down Clips: Equal to 2 percent of quantity installed."

2. ADD Subparagraphs 2.10 A. 3. And 4. as follows:
   "3. Plank and Tile, Snap-in, CertainTeed
   4. Visions 800, American Decorative Ceilings"

3. DELETE Paragraph 3.4 B. in its entirety and replace with the following:
   "B. Moldings and Trim: Install moldings and trim to substrate and level with ceiling suspension system to a tolerance of 1/8 inch in 12 feet, non-cumulative."

B. Section 095423 – "LINEAR METAL CEILINGS"

1. DELETE Paragraph 2.2 A. 1. and replace with the following:
   "1. Basis-of-Design Product: Subject to compliance with requirements, provide Metalworks Linear Ceiling by Armstrong Ceiling Solutions or comparable product by one of the following:"

2. DELETE Subparagraph 2.2 A. 1. g. in its entirety and replace with the following:
   "g. Endura by Rulon."

C. Section 098413.99 "ACOUSTICAL SURFACE TREATMENT"

1. ADD Subparagraphs 2.2 A. v. and vi. as follows:
   "v. ESSI Barrel-Shaped Diffuser Panels
   vi. MPI Barrel Diffusers"

2. ADD Subparagraph 2.3 C. iv. E. as follows:
   "e. ESSI Absorber Panels"

D. Section 099123.99 "INTERIOR PAINTING"

1. ADD Paragraph 2.3 D. As Follows:

   "D. Existing Lockers to be Painted

   1. All existing lockers to be painted in their entirety, including all exposed sides, top valance, & trim. Existing locker Doors to be painted, on all sides, interior & exterior. (Existing Locker Interior Finish to Remain).

   2. Colors to be selected by Architect from Manufacturers Full Range of Colors

      a. Locker Color 1: (To be Selected)

         1. Location: (Extent of Location(s) to be determined during submittal)

      b. Locker Color 2: (To be Selected)

         1. Location: (Extent of Location(s) to be determined during submittal)

      c. Locker Color 3: (To be Selected)

1. Location: (Extent of Location(s) to be determined during submittal)"

2. DELETE AND REPLACE Article 3.6 with the following:

"3.6 INTERIOR PAINTING SCHEDULE

A. Basis of Design Product: Subject to compliance with requirements, provide Sherwin Williams as listed in Painting Schedule below, or comparable product by one of the following:

1. Benjamin Moore & Co.
2. PPG Paints.

B. CMU Substrates:

1. Latex System:

a. Block Filler:

1) S-W PrepRite Block Filler, B25W25 Block filler, latex, interior/exterior.

b. Intermediate Coat: Latex, interior matching topcoat.
c. Topcoat: Latex, interior semi-gloss:

1) S-W ProMar200 Zero Voc Latex Semi-Gloss, B31-2600 Series , at 4.0 mils wet, 1.6 dry , per coat.

C. Metal Substrates (Aluminum, Steel, and Galvanized Steel):

1. Latex System

a. Prime Coat:

1) Primer, rust-inhibitive, water-based: S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series at 5.0 to 10 mils wet, 2.0 to 4.0 mils dry.

b. Intermediate Coat: Water-based acrylic, interior, matching topcoat.
c. Topcoat: Water-based acrylic, semi-gloss:

1) S-W Pro Industrial Acrylic Semi-Gloss Coating, B66-650 Series at 2.5 to 4.0 mils dry, per coat.

2. Water-Based Dry-Fall System:

a. Topcoat: Dry-fall latex, flat:

1) S-W Pro Industrial Waterborne Acrylic Dry-fall Flat, B42-80 Series at 6.0 mils wet, 1.7 mils dry.

D. Existing Wall-covering w/ Gypsum Board Substrates:

1. Oil Based System

a. Prime Coat: Primer, latex, interior:

1) S-W Extreme Block primer, B49W600.

b. Intermediate Coat: Latex, Interior, Matching top coat

c. Topcoat: Latex, interior, egg shell:

1) S-W ProMar 200 HP Zero VOC Latex Egg-Shel, B20-2600 Series at 4.0 mils wet, 1.7 mils dry.

E. Gypsum Board Substrates:

1. Latex System

a. Prime Coat: Primer, latex, interior:

1) S-W ProMar 200 Zero VOC Latex Primer, B20W01900 at 4.0 mils wet, 1.5 mils dry.

b. Intermediate Coat: Latex, interior, matching topcoat.

c. Topcoat: Latex, interior, egg shell:
1. S-W ProMar 200 HP Zero VOC Latex Egg-Shel, B20-2600 Series at 4.0 mils wet, 1.7 mils dry."

2.6 DIVISION 10 – SPECIALTIES

A. Section 101400 "SIGNAGE"

1. DELETE Subparagraph 2.2 B. 2. b. in its entirety and replace with the following:

   "b. Color: As selected by Architect from manufacture's full range"

2. DELETE Subparagraph 2.2 C. 3. 1. In its entirety and replace with the following subparagraphs:
   "1. Mounting:
   a. Freestanding with rail mount attached to roof where indicated.
   b. Flush mount to wall surface at interior locations indicated."

3. ADD Subparagraph 2.2 D.1. f. as follows:
   "f. Sign Type: Illuminated Face-Lit Characters"

4. ADD Subparagraph 2.2 D. 2. f. as follows:
   "f. Sign Type: Illuminated Face-Lit Characters"

5. ADD Subparagraph 2.2 D. 3. e. as follows:
   "e. Sign Type: Cutout Characters"

6. ADD Subparagraph 2.2 D. 4. g. as follows:
   "g. Sign Type: Cutout Characters"

7. ADD Paragraph 2.4 G. as follows:
   "G. Refer to Sheet AC1K1 for note on ceiling mounted signage included in Serving J124."

8. DELETE Paragraph 2.9 in its entirety.

2.7 DIVISION 22 – PLUMBING

A. Section 221423 "STORM DRAINAGE PIPING SPECIALTIES"

1. DELETE and REPLACE Specification Section per the attached.

B. Section 223400 "FUEL -FIRED DOMESTIC-WATER HEATERS"

1. DELETE AND REPLACE Article 2.1 as follows:

"2.1 COMMERCIAL, GAS-FIRED, DOMESTIC-WATER HEATERS

A. Commercial, Gas-Fired, High-Efficiency, Domestic-Water Heaters:
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      a. Aerco International, Inc.
      b. INTELEHOT
   2. Description: Instantaneous gas-fired domestic water heater.
   3. Heaters: Multiple 316L stainless steel heat exchangers for redundancy with individual controls. Masterless cascading with common venting.
   4. Touch screen access and controls. Wi-Fi connectivity and BMS interface."

C. Section 226600 "CHEMICAL-WASTE SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES"

1. DELETE Article 2.3 NEUTRALIZATION TANKS in its entirety

D. Section 223100 "DOMESTIC WATER SOFTENERS"

1. DELETE Paragraph 2.1 B. 3 Mounting: On skids, in its entirety

2.8 DIVISION 27 – COMMUNICATIONS

A. Section 277710.99 "AUDIO/VIDEO SYSTEMS"

1. ADD Paragraph 2.2 as follows:

   A. A/V wall input plate and connectors
      a. Provide wall plate connectors and cabling as detailed on sheet T-501.
      b. Coordinate with the cabling to coordinate manufacturer.
      c. Provide all cabling required to connect wall plate to the projector.
   B. Projector
      a. 198" diagonal
      b. (2) HDMI inputs

c. (1) VGA inputs
d. (2) 3.5mm inputs
e. Provide Epson PowerLite L610W, or approved equal.
f. Provide Chief SYSAUW ceiling mount kit, or approved equal.

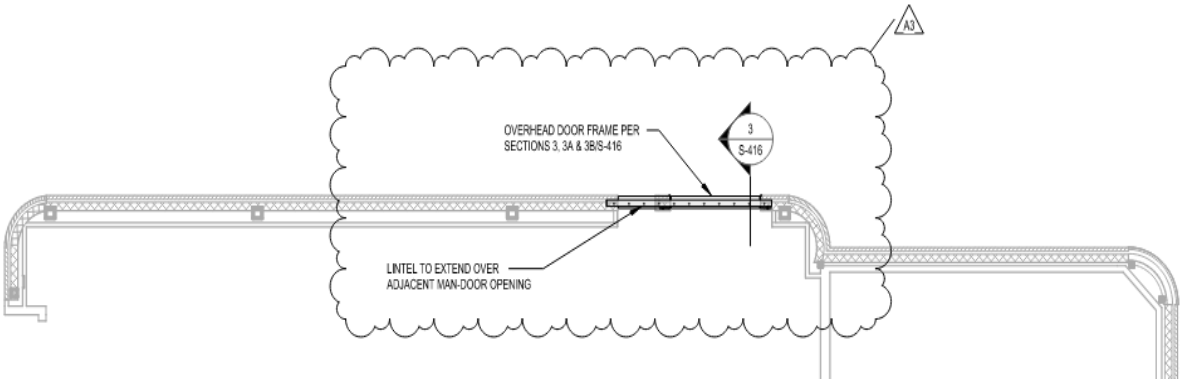
PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 S-SERIES DRAWINGS

A. Sheet Number SF1KR

1. In 2/SF1KR, at the eastern overhead door, change the section callout to 3/S-416 and add two notations as shown below:



B. Sheet Number S-416

1. DELETE AND REPLACE with attached Drawing S-416 “FRAMING SECTIONS AND DETAILS”. (Note: Sections 3, 3A, and 3B added)

3.2 A-SERIES DRAWINGS

A. Sheet Numbers AD1C1 through AD1J2

1. DELETE Demolition Floor Plan Note 18 and replace with the following:
“18. EXISTING VINYL WALL COVERING TO REMAIN. PATCH AND REPAIR AS REQUIRED TO PREP FOR NEW PAINT FINISH OVER WALLCOVERING.”

B. Sheet Number AD1C2

1. ADD the following General Note to the Sheet:

“NOTE: REFER TO SHEET AD102 FOR DEMOLITION SCOPE FOR THIS SHEET. DASHED AREAS ARE INCLUDED IN STRUCTURE DEMOLITION SCOPE AREA.”

C. Sheet Number AD1H2

1. ADD the following General Note to the Sheet:
   "NOTE: NO ARCHITECTURAL DEMOLITION WORK REQUIRED ON THIS SHEET – DISREGARD DOOR DEMOLITON INTO MECHANICAL ROOM – CONDITION DOES NOT EXIST."

D. Sheet Numbers AF1B1, AF1B2, and AF1B3

1. CHANGE the tag for the curtainwall along column line RB17, between column lines RBD and RBE from "CW4" to "CW3".

E. Sheet Numbers AF1C1 through AF1K1

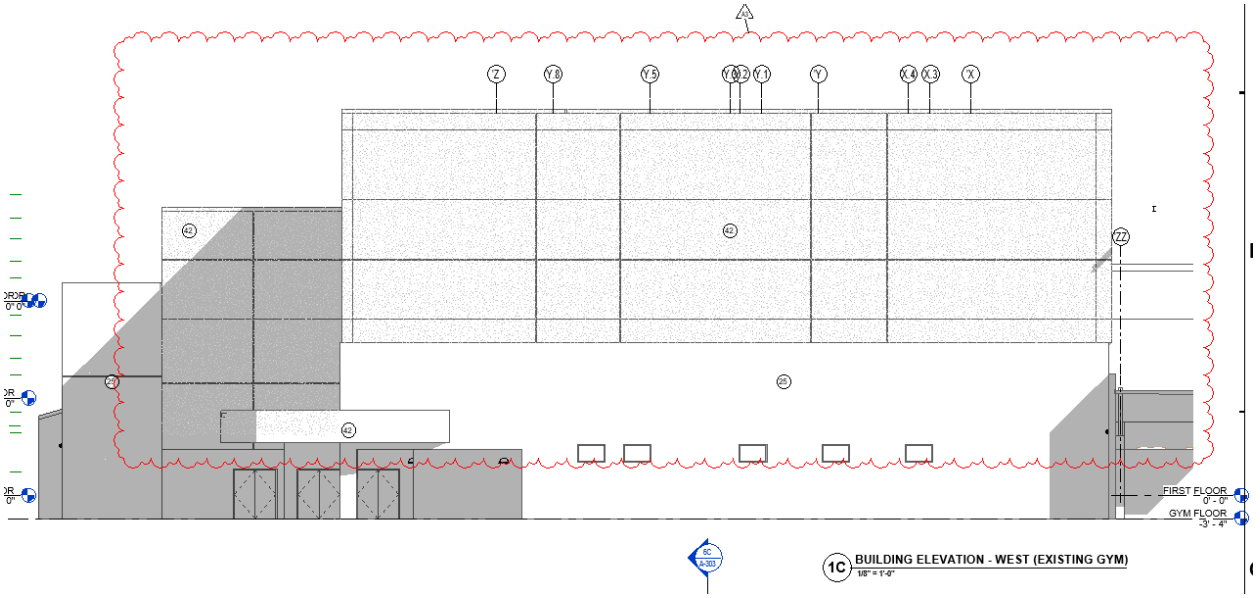
1. DELETE Floor Plan Note 28 and replace with the following.
   "28. NOT USED"

F. Sheet Numbers A-210 to A-213

1. ADD to the BUILDING ELEVATION NOTES note 42 as follows:
   42. 099113.99 – EXTERIOR PAINTING EIFS ALTERNATE. REPAINT AND RESEAL EXISTING EIFS WALL AREA AND ASSOCIATED CONTROL JOINTS. (HATCHED AREA)"

G. Sheet Number A-210

1. DELETE Drawing 1C and replace with drawing below:



H. Sheet Number A-422

1. ADD the following General Note under the Acoustical Wall Panels table:
   "NOTE: ALL ABSORPTION PANELS (AWP_AP-X) ARE "TUNED" ABSORPTION PANELS."

I. Sheet Number A-600

1. CHANGE Frame type for openings AV101.3 and AV101.4 from “SF10” to “SF12”.

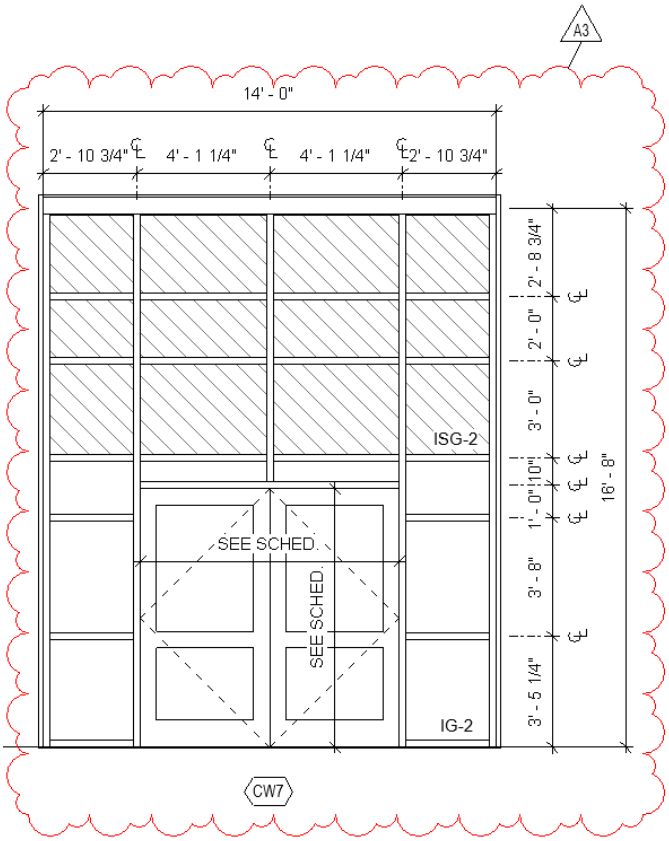
2. DELETE “45 MIN” label for Opening B200P.2. This opening has no rating requirement.

J. Sheet Number A-601

1. CHANGE Door height for opening FC102 from “8’-10”” to “8’-0””.

K. Sheet Number A-604

1. DELETE Curtain Wall Elevation CW7 and replace with the following:



L. DELETE AND REPLACE the following Sheets with the attached:

1. AD1K1
2. AR001
3. A-216

3.3 I-SERIES DRAWINGS

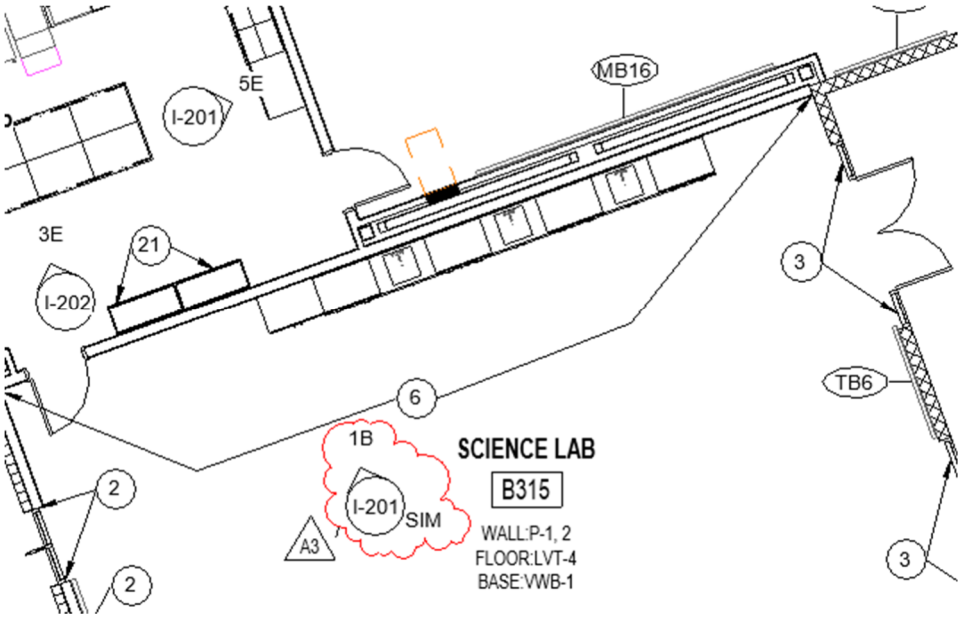
A. IN Sheets

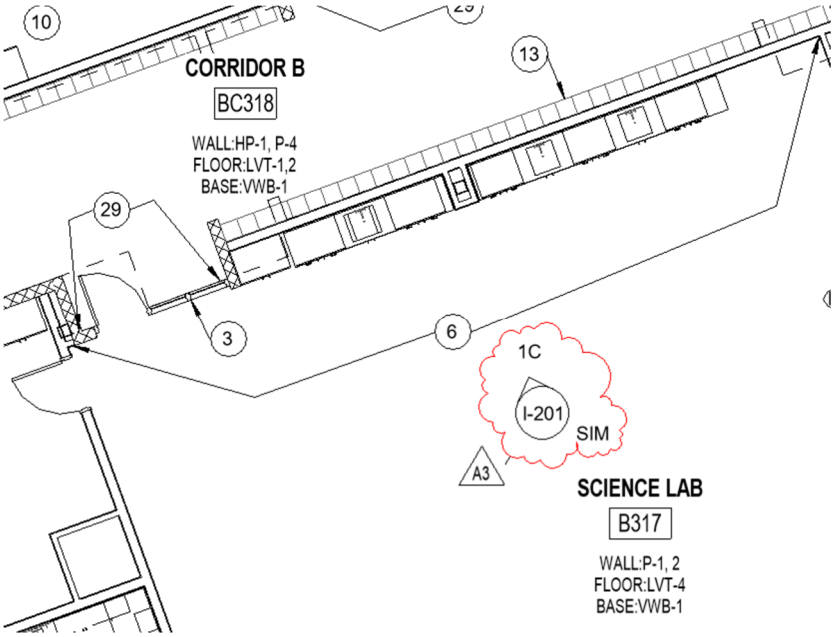
1. DELETE & REPLACE Interior Plan Note #13 Prefix, As follows:

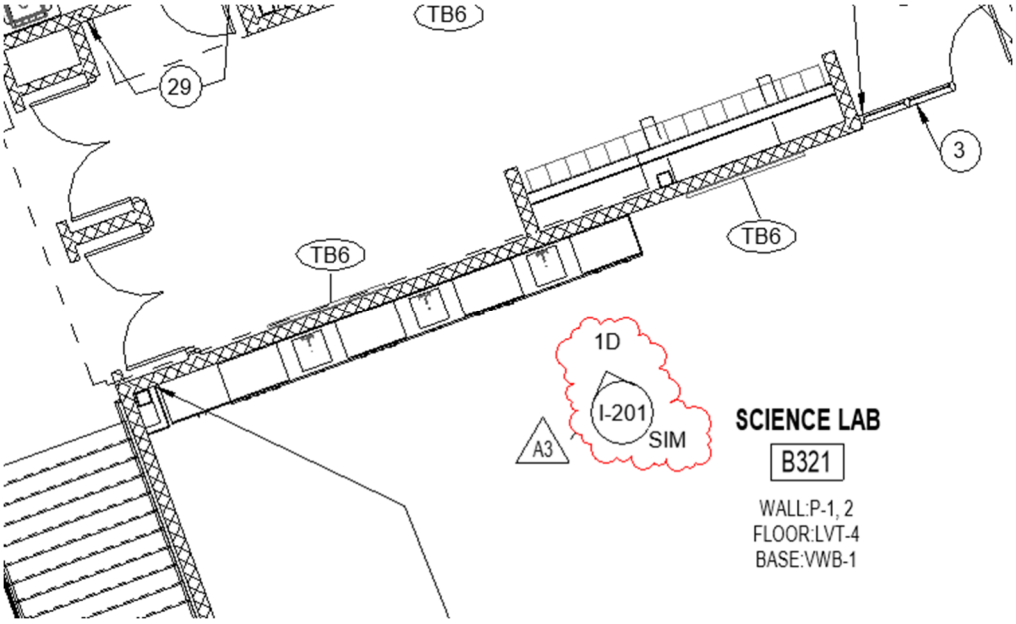
"Tackable acoustical wall panels "AWP-1" to be provided on length of wall above lockers, to extend to underside of ceiling above. Provide Manufacturers edge trim at exposed outside edges. To be provided and installed in section 098413.99, by third party."

B. Sheet Number IN1B3

1. ADD Elevation Markers as shown below:







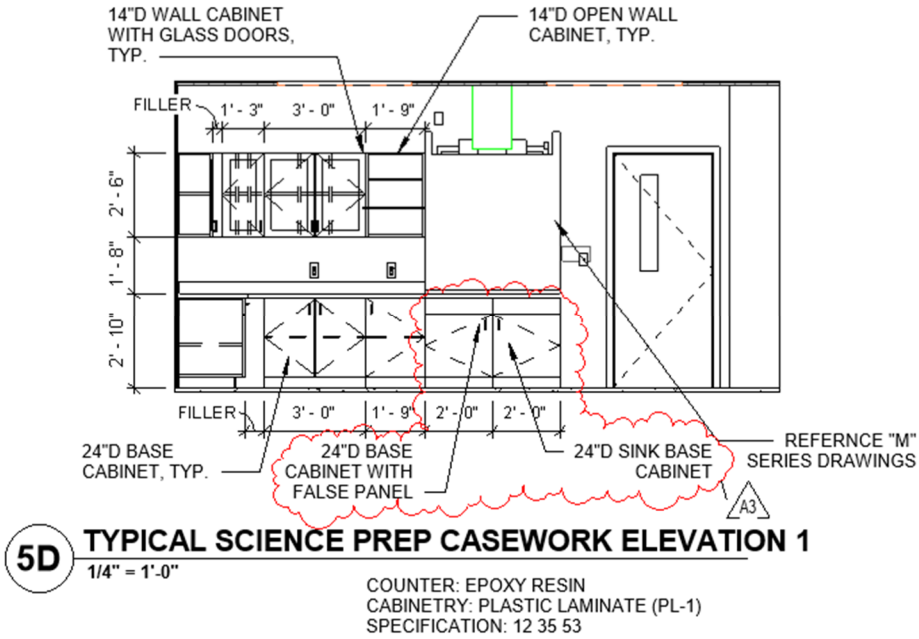
C. Sheet Number IN1H1

1. MODIFY Interior Plan Note #23 Prefix, As follows:

   "09 64 68.99 - Refinish Wood Floor Within Parameters of Existing Court Lines & Verify In Field."

D. Sheet Number I-201

1. MODIFY Elevation as shown below:

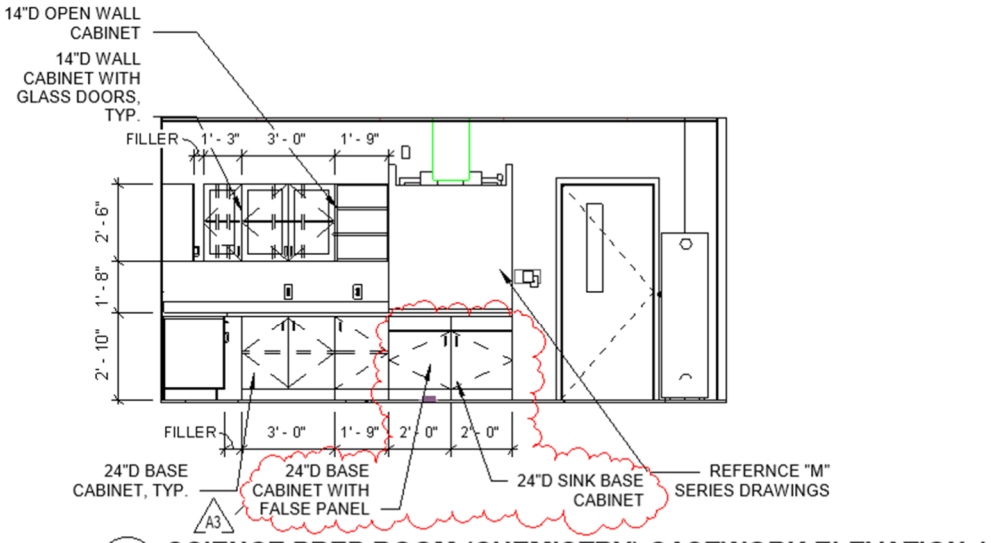


5D TYPICAL SCIENCE PREP CASEWORK ELEVATION 1
1/4" = 1'-0"

COUNTER: EPOXY RESIN
CABINETRY: PLASTIC LAMINATE (PL-1)
SPECIFICATION: 12 35 53

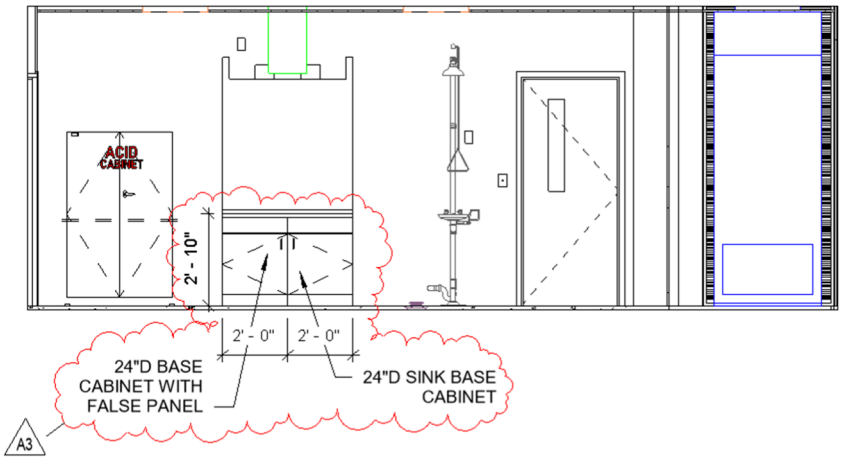
E. Sheet Number I-202

1. MODIFY Elevations as shown below:



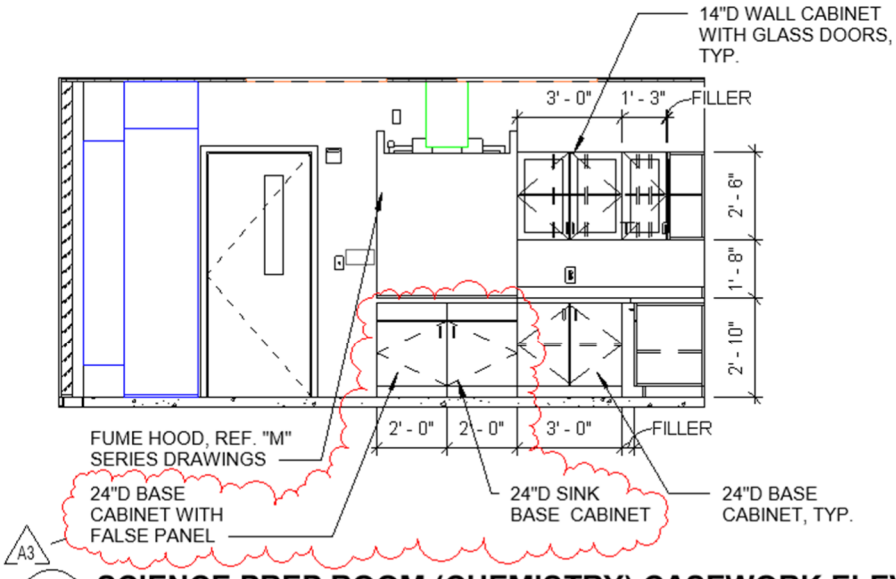
3A SCIENCE PREP ROOM (CHEMISTRY) CASEWORK ELEVATION 1
1/4" = 1'-0"

COUNTER: EPOXY RESIN
CABINETRY: PLASTIC LAMINATE (PL-1)
SPECIFICATION: 12 35 53



3B SCIENCE PREP ROOM (CHEMISTRY) CASEWORK ELEVATION 2
1/4" = 1'-0"

COUNTER: EPOXY RESIN
CABINETRY: PLASTIC LAMINATE (PL-1)
SPECIFICATION: 12 35 53



3C SCIENCE PREP ROOM (CHEMISTRY) CASEWORK ELEVATION 3
1/4" = 1'-0"

COUNTER: EPOXY RESIN
CABINETRY: PLASTIC LAMINATE (PL-1)
SPECIFICATION: 12 35 53

F. Sheet Number I-601

1. ADD row to Interior Finish Legend as follows:

   a. Location: Flooring

   b. Mark: CFC-1

   c. Description: Resinous Flooring Level I

d. Manufacturer: General Polymers

e. Collection/Pattern: 3746 Epoxy Coating

f. Color: To be determined

g. Spec: 09 67 2 3.13

h. Comments: Location(s): Utility Spaces.

3.4 M-SERIES DRAWINGS

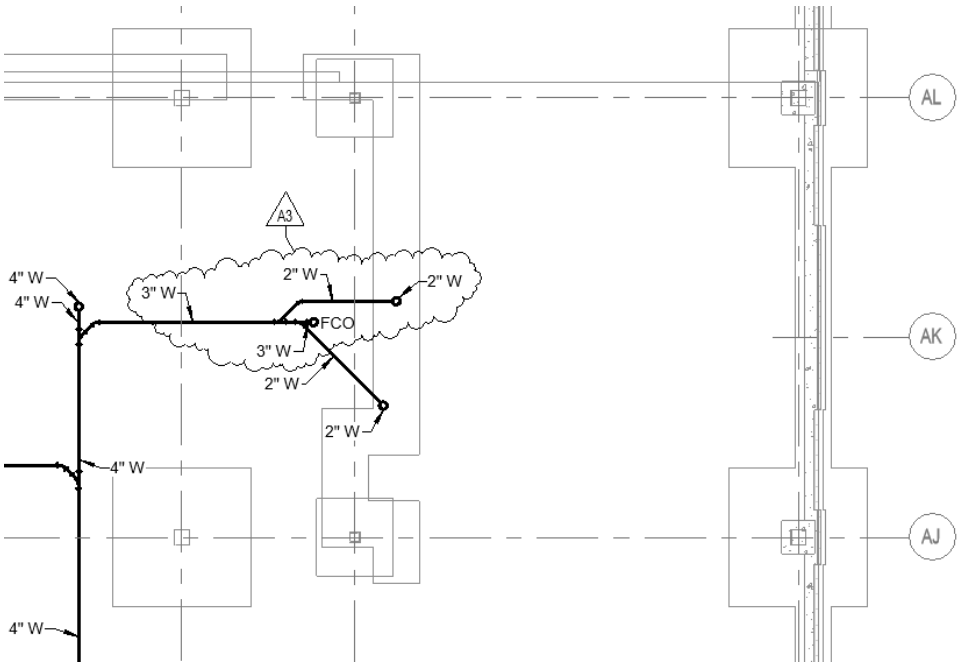
A. Drawings M-601

1. ADD Note 6 to AIR COOLED CHILLER SCHEDULE and apply to all chillers as follows: "6. Fluid contains 30% PG."

3.5 P-SERIES DRAWINGS

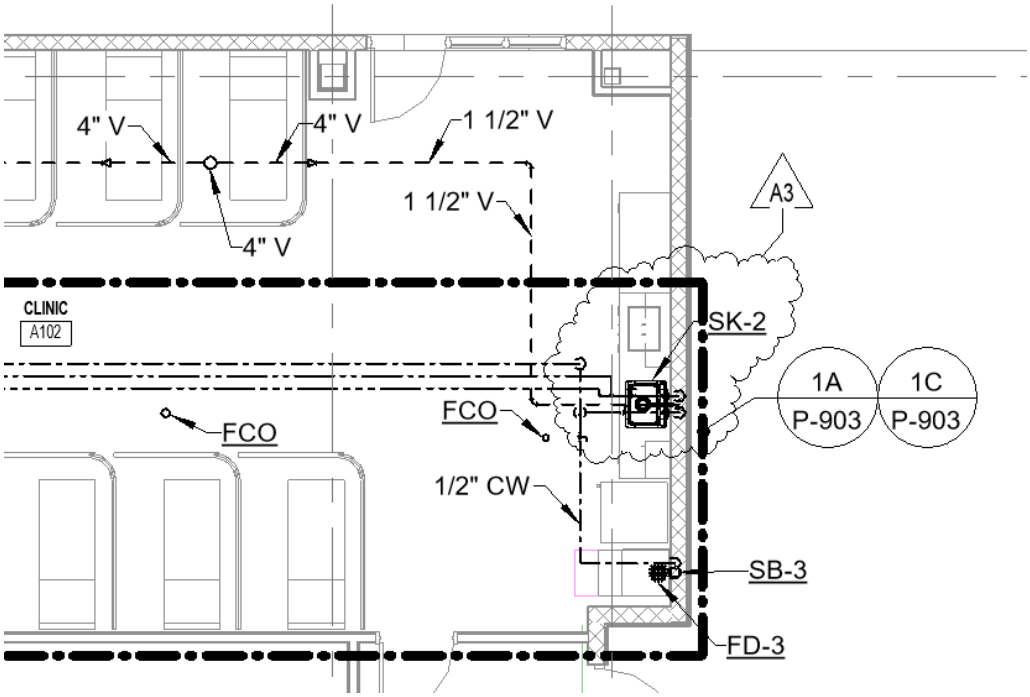
A. Drawing Number PF1A0

1. MODIFY underslab waste piping shown on 2A as shown below:



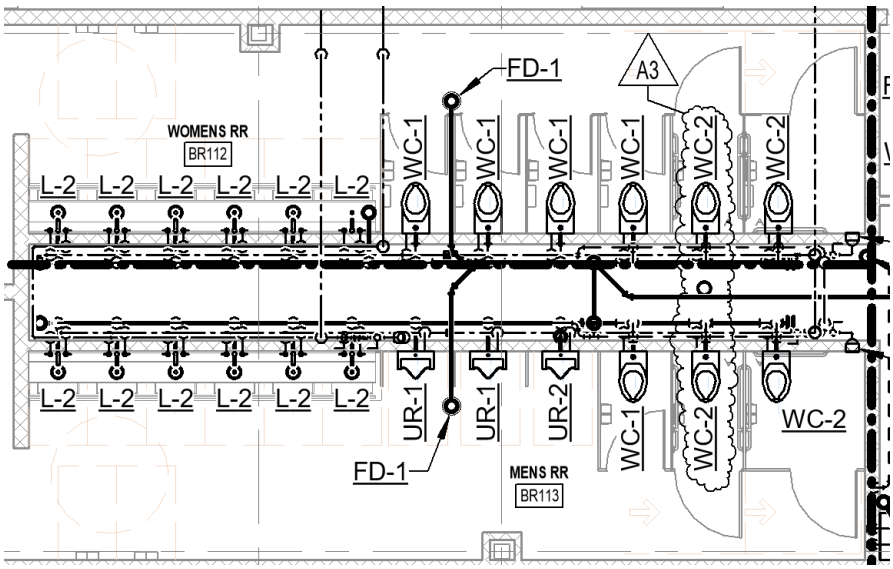
B. Drawing Number PF1A0

1. MODIFY Clinic A102 sink location and piping layout as shown below:



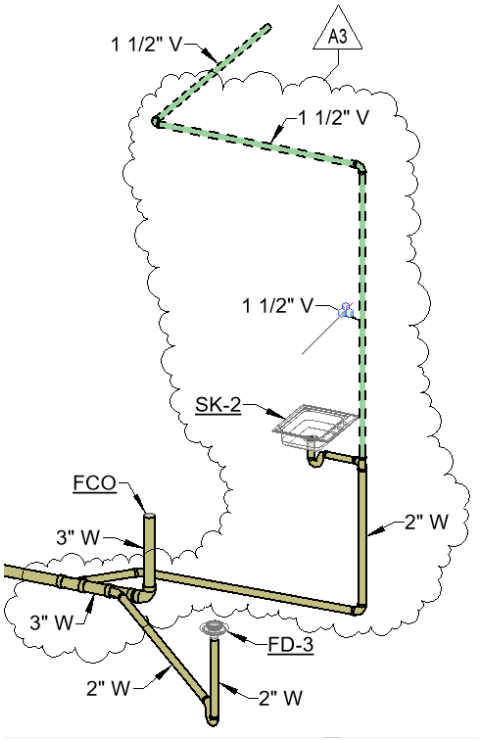
C. Drawing Numbers PP1B1, PP1B2, PP1B3

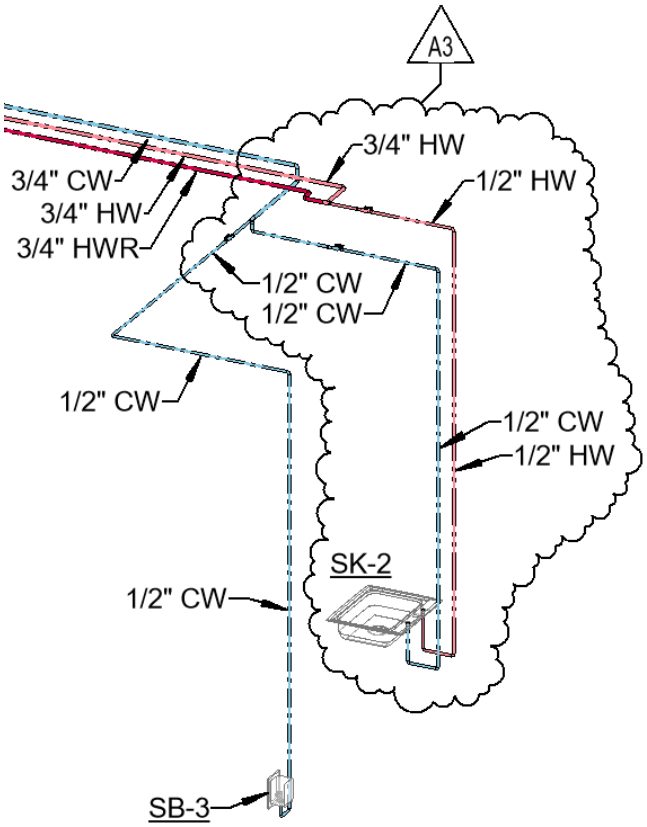
1. DELETE AND REPLACE water closet fixture type WC-1 with WC-2 in ambulatory stalls of Unit B gang restrooms on First, Second, and Third floors. See below for typical:



2. **Drawing Number P-903**

   a. MODIFY 1A and 1C for Clinic A102 sink location and piping layout as shown below:





3.6 E-SERIES DRAWINGS

A. Sheet Number ES102

1. MODIFY Drawing ES102 as follows:

   a. Provide (1) 1" conduit underground from ELEC BM112A on the 1st Floor of Unit B to digital school sign just south of unit B outside building. Coordinate location with C-Series drawings. Coordinate wiring size and quantity and circuit breaker with sign requirements.

B. Sheet Number EL1G1

1. MODIFY Drawing EL1G1 as follows:

   a. In AUX. STUDIO FC102A control downlight type L20 fixtures with southern light switch and control track lights type L48 fixtures and track with northern light switch. Connect to circuit 12G1-33 with AUX. STUDIO FC120B track fixtures for power.

   b. In AUX. STUDIO FC102B control downlight type L20 fixtures with southern light switch and control track lights type L48 fixtures and track with northern light switch.

c. In STOR H110A change type L7 fixture closest to panelboard 12G2 to a type L7S fixture and circuit to nearest emergency lighting circuit for the area.

d. In MEDIA CENTER J129 provide one (1) four-way wall switch, nine (9) three-way wall switches and one (1) standard wall switch for control of lighting per the snip below. Coordinate control through occupancy sensors and fixtures in Bid Documents as indicated.

e. Outside VEST JV102 provide at least forty-three (43) junction boxes to power lighting for sign letters with lighting plan note 16, “INSTALL WALL MOUNT JUNCTION BOX CENTERED BEHIND EACH SIGN LETTER. COORDINATE EXACT LOCATION WITH SIGN CONTRACTOR AND "A" SERIES SHEETS.” Contractor verify final count. Provide 277V, 20A circuit from spare circuit breaker #16 in panelboard 1H4 through lighting contactor LC-1J for power and controls.

C. Sheet Number EP1B1

1. MODIFY Drawing EP1B1 as follows:

a. In VEST BS113A provide 208V, 3Φ, 3W, F30 circuit from 3P-20A circuit breaker in panelboard 12B2 and connect through manufacturer provided disconnect switch to electric heater <u>EUH-1</u>.

D. Sheet Number EP1D1

1. MODIFY Drawing EP1D1 as follows:

a. In STOR 113A change fusible disconnect switch to ceramics kiln #1 from 60A rating to 200A rating and rename from DS-1DKILN to DS-1DK1. DS-1DK1 shall retain 60A fuses. Change feeder to DS-1DK1 from Switchboard 1LD3 from F60 to F110 and change fuses is fused disconnect in Switchboard 1LD3 from 60A to 110A.

b. In STOR 113A provide new fusible disconnect switch DS-1DK2 (240V, 3Φ, 60A w/ 60A fuses) for ceramics kiln #2. Extend F110 feeder from DS-1DK2 to line side of DS-1DK1 for shared circuit connection back to Switchboard 1LD3.

c. In STOR 113A rename motor-rated toggle switch with thermal overloads for exhaust fan KILN-1 from MS-1DKEF to MS-1DKEF1.

d. In STOR 113A provide new motor-rated toggle switch with thermal overloads MS-1DKEF2 for connection to exhaust fan KILN-2. Provide F20 circuit from spare 1P-20A circuit breaker in Panelboard 1L17.

e. Above the ceiling of CORRIDOR CC100 provide duct smoke detectors on the supply and return ducts for RTAHU-3.

f. In CORRIDOR CC100 provide 20A, 208V, 3Φ circuit from Switchboard 12BSB1 to circulation fan CF-D1 with power plan note "CONNECT CIRCULATION FAN TO CIRCUIT INDICATED AND CONTROL THROUGH MANUFACTURER FURNISHED CONTROLLER. INTERCONNECT WITH FIRE ALARM SYSTEM TO DE-ENERGIZE POWER UPON A SPRINKLER SYSTEM ALARM." Provide 20A, 120V circuit from closest spare 1P-20A circuit breaker to circulation fan controller. Coordinate location with M-Series drawings. Connect to controls complete.

E. Sheet Number EP1F1

1. MODIFY Drawing EP1F1 as follows:

a. In MULTIPURPOSE J113 provide 120V, 20A circuit connection to receptacle for projector and junction box for projector screen from available spare 1P-20A circuit breaker in panelboard 12F1.

b. In MULTIPURPOSE J113 provide 20A, 208V, 3Φ circuit from Panelboard 12F1 to circulation fans CF-F1, -F2, and F3 with power plan note "CONNECT CIRCULATION FAN TO CIRCUIT INDICATED AND CONTROL THROUGH MANUFACTURER FURNISHED CONTROLLER. INTERCONNECT WITH FIRE ALARM SYSTEM TO DE-ENERGIZE POWER UPON A SPRINKLER SYSTEM ALARM." Provide 20A, 120V circuit from closest spare 1P-20A circuit breaker to circulation fan controller. Coordinate location with M-Series drawings. Connect to controls complete.

F. Sheet Number EP1G1

1. MODIFY Drawing EP1G1 as follows:

a. In VEST JV102 provide 120V, 20A circuit connection through manufacturer provided disconnect switch in cabinet unit heater CUH-G1 from available spare 1P-20A circuit breaker in panelboard 12G1.

G. Sheet Number EP1H2

1. MODIFY Drawing EP1H2 as follows:

   a. In MECH KM201 provide new motor-rated toggle switch with thermal overloads MS-2HCPAHUB3 for connection to circulation pump CP-AHU-B3. Provide F20 circuit from spare 1P-20A circuit breaker in Panelboard 1L37.

H. Sheet Number ER1D1

1. MODIFY Drawing ER1D1 as follows:

   a. On roof provide new disconnect switches DS-2DRTAHU3SF and DS-2DRTAHU3RF for connection to supply and return fans for rooftop air handling unit RTAHU-3. Provide 3P-60A circuit breaker in panelboard 1H11 with F60 feeder to supply fan disconnect switch and extend F60 feeder from line side of that disconnect switch to the return fan disconnect switch.

   b. On roof adjacent to rooftop air handling unit RTAHU-3 provide rooftop duplex GFCI receptacle with roof plan note 1 'ROOFTOP RECEPTACLE. LOCATE BACKBOX +24" ABOVE ROOF MEMEBRANE TO CENTERLINE. REFER TO MOUNTING DETAIL SHEET E-501.' Provide 120V, 20A circuit from available spare 1P-20A circuit breaker in panelboard 1L19. Share circuit with 2-3 other rooftop receptacles in same area.

   c. On roof adjacent to rooftop condensing units CU-D1 and CU-D2 provide one (1) rooftop duplex GFCI receptacle with roof plan note 1 'ROOFTOP RECEPTACLE. LOCATE BACKBOX +24" ABOVE ROOF MEMEBRANE TO CENTERLINE. REFER TO MOUNTING DETAIL SHEET E-501.' Provide 120V, 20A circuit from available spare 1P-20A circuit breaker in panelboard 1L19. Share circuit with 2-3 other rooftop receptacles in same area.

   d. On roof adjacent to rooftop exhaust fans EF-D1, EF-D2, EF-D3, EF-D4, EF-D5, and EF-D6 provide one (1) rooftop duplex GFCI receptacle with roof plan note 1 'ROOFTOP RECEPTACLE. LOCATE BACKBOX +24" ABOVE ROOF MEMEBRANE TO CENTERLINE. REFER TO MOUNTING DETAIL SHEET E-501.' Provide 120V, 20A circuit from available spare 1P-20A circuit breaker in panelboard 1L19. Share circuit with 2-3 other rooftop receptacles in same area.

I. Sheet Number ER1F1

1. MODIFY Drawing ER1F1 as follows:

   a. In MECH JM211 provide new motor-rated toggle switch with thermal overloads MS-2FCPAHU7 for connection to circulation pump CP-AHU-7. Provide F20 circuit from spare 1P-20A circuit breaker in Panelboard 12F1.

J. Sheet Number E-401

1. MODIFY Drawing E-401 as follows:

a. Provide 2P-40A circuit breaker in panelboard 12K1 for connection to E106 Cook and Hold Cabinet in SERVICE KITCHEN J118.

b. Relocate note to below Kitchen Equipment Schedule:
"DRAWINGS AND SCHEDULE INTENT IS ONLY TO INDICATE CIRCUIT NUMBERS, FEEDER/BRANCH CIRCUIT SIZE, RECEPTACLE REQUIREMENTS, AND LOCATIONS. REFER TO KITCHEN EQUIPMENT DRAWINGS, QF-SERIES AND SPECIFICATIONS FOR ALL ROUGH-IN LOCATIONS, DETAILS, WIRING, AND INSTALLATION REQUIREMENTS FOR KITCHEN EQUIPMENT PRIOR TO BID AND INSTALLATION.

REFER TO LIGHTING AND POWER PLANS FOR ADDITIONAL ELECTRICAL INFORMATION IN KITCHEN AREA."

K. Sheet Number E-602

1. MODIFY Drawing E-602 as follows:

a. Correct naming of transformer from T-1LJ1 to T-1J1 to match plans and schedules.

b. Adjust annotation of existing UTILITY TRANSFORMER feeding new Switchboard MDP1 to add "FORMERLY FEEDING OLD MDP1."

c. Feeder from UTILITY TRANSFORMER to Switchboard MDP1 to be concrete encased.

d. Change Panelboard 14DPLS1 from and MLO panelboard to a 400A MCB panelboard. Change blank feeder size to F400 feeder.

e. Change Switchboard 14DPJ1 from 800A MLO to 1200A MLO. Change blank feeder size to F1200 feeder. Change circuit breaker in feeding 14DPJ1 from 3P-800A to 3P-1200A.

f. Change feeders to and from disconnect switch DS-T1J2 through Transformer T-1J2 to F800 feeders.

g. Change feeder from Transformer T-1J2 to Switchboard 12DPJ2 to F1600 feeder.

h. Feeder between MDP2 and disconnect switch DS-T1C1 for Transformer T-1C1 to be F250 feeder.

L. Sheet Number E-603

1. MODIFY Drawing E-603 as follows:

a. Feeder from UTILITY TRANSFORMER to Switchboard 14BSB1 to be concrete encased.

M. Sheet Number E-606

1. MODIFY Drawing E-606 as follows:

a. Add fractional horsepower rated toggle switch with thermal overloads MS-2FCPAHU7 for circulation pump CP-AHU-7 to MOTOR CONTROLLER/STARTER/VFD SCHEDULE.

b. Rename fractional horsepower rated toggle switch with thermal overloads from MS-1DKEF to MS-1DKEF1 for exhaust fan KILN-1.

c. Add fractional horsepower rated toggle switch with thermal overloads MS-1DKEF2 for kiln exhaust fan KILN-2.

d. Add fusible disconnect switches DS-2DRTAHU3SF (480V, 3Φ, 60A frame, NEMA 3R, 35A fuses) for rooftop air handling unit RTAHU-3 supply fans and DS-2DRTAHU3RF (480V, 3Φ, 30A frame, NEMA 3R, 30A fuses) for rooftop air handling unit RTAHU-3 return fans to DISCONNECT SWITCH SCHEDULE.

e. Add circuit 1H4-16 to "CIRCUITS CONTROLLED" for lighting contactor LC-1J in LIGHTING CONTACTOR SCHEDULE.

N. Sheet Number E-607

1. MODIFY Drawing E-607 as follows:

a. Change circuit breaker in feeding Switchboard 14DPJ1 from 3P-800A to 3P-1200A.

b. Change mains rating of Switchboard 14DPJ1 from 800A to 1200A.

3.7 T-SERIES DRAWINGS

A. Sheet Number: All TF – Series Drawings

1. DELETE Plan Note #3 in its entirety and replace with the following:

"Telecommunications Racks by others."

END OF ADDENDUM 3

SECTION 221423 - STORM DRAINAGE PIPING SPECIALTIES

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. Section Includes:

1. Roof drains.
2. Cleanouts.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

A. Drainage piping specialties shall bear label, stamp, or other markings of specified testing agency.

B. Standardize on same manufacturers for the entire project.

1. Provide the same manufacturer throughout the project for storm drainage piping specialties.

PART 2 - PRODUCTS

2.1 METAL ROOF DRAINS

A. Cast-Iron, Medium-Sump, General-Purpose Roof Drains :

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Josam Company.
b. Marathon Roofing Products.
c. MIFAB, Inc.
d. Portals Plus; Commercial Products Group of Hart & Cooley, Inc.

e. Smith, Jay R. Mfg. Co.
f. Tyler Pipe.
g. Watts Water Technologies, Inc.
h. Zurn Plumbing Products Group; Light Commercial Products Operation.
i. Zurn Plumbing Products Group; Specification Drainage Operation.

2. Standard: ASME A112.6.4, for general-purpose roof drains.
3. Body Material: Cast iron.
4. Dimension of Body: 8- to 12-inch diameter.
5. Combination Flashing Ring and Gravel Stop: Not required.
6. Flow-Control Weirs: Not required.
7. Outlet: Bottom.
8. Extension Collars: Required.
9. Underdeck Clamp: Required.
10. Expansion Joint: Not required.
11. Sump Receiver Plate: Required.
12. Dome Material: Cast iron.
13. Wire Mesh: Not required.
14. Perforated Gravel Guard: Not required.
15. Vandal-Proof Dome: Required.
16. Water Dam: 2 inches high.

2.2 CLEANOUTS

A. Floor Cleanouts :

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Josam Company.
   b. Smith, Jay R. Mfg. Co.
   c. Tyler Pipe.
   d. Watts Water Technologies, Inc.
   e. Zurn Plumbing Products Group; Light Commercial Products Operation.

2. Standard: ASME A112.36.2M, for adjustable housing cast-iron soil pipe with cast-iron ferrule cleanouts.
3. Size: Same as connected branch.
4. Type: Adjustable housing Cast-iron soil pipe with cast-iron ferrule.
5. Body or Ferrule Material: Cast iron.
6. Clamping Device: Required.
7. Outlet Connection: Inside calk.
8. Closure: Brass plug with straight threads and gasket.
9. Adjustable Housing Material: Cast iron with threads.
10. Frame and Cover Material and Finish: Nickel-bronze, copper alloy.
11. Frame and Cover Shape: Round.
12. Top-Loading Classification: Heavy Duty.
13. Riser: ASTM A 74, Service class, cast-iron drainage pipe fitting and riser to cleanout.

B. Wall Cleanouts :

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Josam Company.
   b. MIFAB, Inc.
   c. Smith, Jay R. Mfg. Co.
   d. Tyler Pipe.
   e. Watts Water Technologies, Inc.
   f. Zurn Plumbing Products Group; Specification Drainage Operation.

2. Standard: ASME A112.36.2M, for cleanouts. Include wall access.
3. Size: Same as connected drainage piping.
4. Body Material: Hub-and-spigot, cast-iron soil-pipe T-branch as required to match connected piping.
5. Closure: Countersunk or raised-head, brass plug.
6. Closure Plug Size: Same as or not more than one size smaller than cleanout size.
7. Wall Access: Round, flat, chrome-plated brass or stainless-steel cover plate with screw.
8. Wall Access: Round, nickel-bronze, copper-alloy, or stainless-steel wall-installation frame and cover.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install roof drains at low points of roof areas according to roof membrane manufacturer's written installation instructions.
   1. Install flashing collar or flange of roof drain to prevent leakage between drain and adjoining roofing. Maintain integrity of waterproof membranes where penetrated.
   2. Install expansion joints, if indicated, in roof drain outlets.
   3. Position roof drains for easy access and maintenance.

B. Install cleanouts in aboveground piping and building drain piping according to the following instructions unless otherwise indicated:
   1. Use cleanouts the same size as drainage piping up to NPS 4. Use NPS 4 for larger drainage piping unless larger cleanout is indicated.
   2. Locate cleanouts at each change in direction of piping greater than 45 degrees.
   3. Locate cleanouts at minimum intervals of 50 feet for piping NPS 4 and smaller and 100 feet for larger piping.
   4. Locate cleanouts at base of each vertical soil and waste stack.

C. For floor cleanouts for piping below floors, install cleanout deck plates with top flush with finished floor.

D. For cleanouts located in concealed piping, install cleanout wall access covers, of types indicated, with frame and cover flush with finished wall.

E. Install wall cleanouts in vertical conductors. Install access door in wall if indicated.

3.2 CONNECTIONS

A. Comply with requirements for piping specified in Section 221413 "Facility Storm Drainage Piping." Drawings indicate general arrangement of piping, fittings, and specialties.

3.3 PROTECTION

A. Protect drains during remainder of construction period to avoid clogging with dirt or debris and to prevent damage from traffic or construction work.

B. Place plugs in ends of uncompleted piping at end of each day or when work stops.

END OF SECTION 221423