

ADDENDUM
PAGE 1 OF 4

OWNER:	Ohio Department of Rehabilitation and Correction Ohio Reformatory for Women Marysville, Union County
ENGINEER:	Fishbeck 10856 Reed Hartman Highway, Suite 175 Cincinnati, OH 45242
DRAWING REVISION NO.:	A1
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	00 10 10, 00 41 13, 03 01 33
SHEETS:	2.P01, 2.P02, 2.P03, 2.P04, 2.P05, 2.P06, 2.P07, 2.P08, 2.P09
PREBID ITEMS:	Prebid Meeting Agenda, Meeting Minutes, Attendance Sign In Sheet, Prebid RFI Questions and Responses
BIDS DUE:	Bids are due by Thursday, October 26, 2023, at 2:00 p.m.
This Addendum is issued to all Bid Set Holders, is a part of the Contract Documents, and modifies the previously issued Bidding Documents. Acknowledge receipt of this Addendum in the space provided on the Bid form; failure to do so may result in rejection of the Bid.	

ITEM NO. 1:

General: Prebid Meeting Agenda and Meeting Minutes (issued)

- A. Contractors are referred to the Prebid Meeting Agenda included in this Addendum (issued).
- B. Contractors are referred to the Prebid Meeting Minutes and Attendance Sign In Sheet included in this Addendum (issued).

ITEM NO. 2:

Section: 00 10 10 – Solicitation (reissued)

- A. Revise the bid date to October 26, 2023 at 2:00 pm.

ITEM NO. 3:

Section: 00 41 13 Bid Form (reissued)

- A. Revise the bid date to October 26, 2023 at 2:00 pm

ITEM NO. 4:

Section: 03 01 33 – Rehabilitation of Cast-in-Place Concrete (reissued)

- A. Add an additional approved Manufacturer “Koster” to each of the following materials: Structural Injection Resins; Water Reactive Injection Polyurethane Sealants; and Hydraulic (Water Stop) Grouts.

ITEM NO. 5:

Sheet: 2.P01 – BASEMENT AREA A SANITARY PIPING PLAN - ALTERNATE 1A (reissued)

- A. Added the following general note to the drawing “Provide test cleanouts at connections to existing sanitary locations as required”.

ADDENDUM
PAGE 2 OF 4

ITEM NO. 6:

Sheet: 2.P02 – BASEMENT AREA B SANITARY PIPING PLAN - ALTERNATE 1A (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".

ITEM NO. 7:

Sheet: 2.P03 – BASEMENT AREA C SANITARY PIPING PLAN - ALTERNATE 1B (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".
- B. Added a 3" Vent Stack to the drawing as well as coded note 5.

ITEM NO. 8:

Sheet: 2.P04 – BASEMENT AREA D SANITARY PIPING PLAN - ALTERNATE 1B (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".
- B. Increased the sanitary trap and piping size from existing washing machine.

ITEM NO. 9:

Sheet: 2.P05 – FIRST FLOOR AREA C SANITARY PIPING PLAN - ALTERNATE 1B (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".

ITEM NO. 10:

Sheet: 2.P06 – FIRST FLOOR AREA D SANITARY PIPING PLAN - ALTERNATE 1B (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".

ITEM NO. 11:

Sheet: 2.P07 – SECOND FLOOR AREA C SANITARY PIPING PLAN - ALTERNATE 1B (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".

ITEM NO. 12:

Sheet: 2.P08 – SECOND FLOOR AREA D SANITARY PIPING PLAN - ALTERNATE 1B (reissued)

- A. Added the following general note to the drawing "Provide test cleanouts at connections to existing sanitary locations as required".

ITEM NO. 13:

Sheet: 2.P09 – ISOMETRICS (reissued)

- A. Stacks 5, 9, 10, and 16 have been updated to Increase trap sizes from existing Washing Machines from 1-1/2" to 2" trap sizes and add venting.
- B. Stack 13 has been updated to add a 3" vent stack.

ADDENDUM
PAGE 3 OF 4

ITEM NO. 14:

General: Prebid RFI Questions and Responses

- A. *Is the cabinetry for the sink in wood work room 29 in the basement of Harmon to be repaired?*
Response: ORW will remove and replace cabinetry as required to facilitate the replacement of the sanitary piping.
- B. *Is there a square footage amount available for how much of the less than 1% plaster and terrazzo flooring is expected to be removed?*
Response: No terrazzo flooring is expected to be removed. It is anticipated that the <1% asbestos-containing plaster and terrazzo may only be disturbed during removal of piping and fixtures, and OSHA regulations should be followed to limit workers permissible exposure limit. No new wall and floor penetrations are anticipated.
- C. *If any removal of the asbestos containing materials are to be removed who will mark out the areas? Or will entire ceilings, floors, and walls be removed?*
Response: The general contractor and/or plumbing contractor will be required to mark out areas. Entire ceilings, floors, and walls are not being removed.
- D. *Is all the asbestos containing plaster and flooring in the Harmon Building? Is there any in the tunnels? If in tunnels how much?*
Response: The <1% asbestos-containing plaster and terrazzo are only present in the Harmon Building. No ACM identified in tunnels.
- E. *In the Hazardous Material Survey, it states "approximately 40 light ballasts were observed in the tunnel" are there any other light ballasts/fixtures you know of that would need to be removed?*
Response: No other lights being removed, only lights being removed are in the tunnel shown on the electrical demolition plans.
- F. *For the Lead-based Paint and Surfaces, we can remove and dispose of the brackets in the tunnel (quantity?) and the doors as well. With the white concrete pillars and the plaster wall we can scrape the loose paint off and encapsulate the material. Is that acceptable for you?*
Response: Yes, existing lead paint on pillars and walls can be encapsulated as long as the Contractor follows OSHA Lead in Construction standards. This is detailed in Section 3.1.F of Spec 02 83 00.
- G. *Demo note 1 on 1.sd01. Please clarify that the 20 locations of 50sf of partial depth floor repairs are not covered in the unit price section.*
Response: Correct. The locations noted above are to be included in the base bid and are not to be included as a unit price.
- H. *Is a waterproofing system installed on the existing tunnel? If so, is the type of system known? The type of system will need to be known to guarantee proper adhesion of new concrete to old in detail 7/1.s08.*
Response: We have not observed any waterproofing systems installed on the existing tunnel. One drawing dated 1965 has a note on the tunnel wall section stating, "WATERPROOF WALL WITH ASPHALT EMULSION".
- I. *Unit price quantities on bid form. The locations with these repairs are indicated on the structural drawing set. Are the unit price quantities in addition to the locations/quantities indicated on the drawings or inclusive of those?*
Response: The locations of repairs noted on the plan views in the structural drawings are intended to be inclusive of the unit price quantities on the bid form. Quantities included in the Notes on the structural drawings are in addition to the unit price quantities. See the question regarding the floor repair above.
- J. *Please provide specification for water repellant referenced in note 12 on 1.s07.*
Response: Water repellant is included in section 03 31 00 Structural Concrete.

Ohio Department of Rehabilitation and Correction
Ohio Reformatory for Women Improvements Project
Utility Tunnel Repairs & Harmon Building
Sanitary Pipe Repairs (Bid Package 2)
Project No. DRC-21F005-02
Project No. Fishbeck 220248

Addendum No. 01

Date: October 16, 2023

ADDENDUM
PAGE 4 OF 4

END OF ADDENDUM

Pre-Bid Agenda

PROJECT:	DRC-21F005-02	PROJECT NO.	Fishbeck No. 220248
SUBJECT:	Ohio Reformatory for Women Improvements Project Utility Tunnel Improvements and Harmon Sanitary Pipe Replacement (Bid Package 2)	MEETING DATE:	October 10, 2023

1. Introductions

- a. Sign-In Sheet.

2. Channel of Communications

All communication shall be through Fishbeck and will be forwarded to the appropriate area for response.

Fishbeck
Attn: Gary Louis
11353 Reed Hartman Highway Suite 500
Cincinnati, OH, 45241
Phone: 513-247-8565
Email: glouis@fishbeck.com

3. Comments/Bidding RFI's

All Questions should be submitted in writing.

Deadline for bidding questions **Friday October 13, 2023 at 5pm.**

4. Site Visit – Walk

Visit following meeting (if necessary).

5. Bid Opening

Bids will be publicly opened on **October 20, 2023 at 2:00 pm.** Please read the Instruction to Bidders within the Project Documents.

6. Delivery of Bid

Please be sure all bids are submitted prior to the Bid Opening Deadline.

- The bids will be electronic thru <https://bidexpress.com>

7. Bid Security Form

Bid Security Form must be for the full amount of the bid. The sanitary work at the Harmon Building is broken into Alternates 1a and 1b. A percentage is NOT acceptable, and the bid will be rejected. If Bidder wishes, a certified check, cashier's check, or letter of credit, in the amount of 10% of the bid would be acceptable. However, if that bidder is apparent low, the check will be returned upon receipt of a performance bond.

Should the company supplying the check be second or third low, the check will be held until an actual contract is signed with the low bidder.

There is an electrical allowance for demolition.

There is unit pricing requirements for tunnel structural work.

8. Registration with State of Ohio Secretary of State

Bidder's Company Name on Bid Form AND Bond/Bid Security Form must exactly match the Company Name registered on the State of Ohio Secretary of State's website.

<http://www5.sos.state.oh.us/ords/f?p=100:1:0:::>

9. EDGE

This project is subject to the State of Ohio Encouraging Diversity, Growth, and Equity (EDGE) Business Development Program with a goal of **5.0 percent**

10. Insurance Requirements

Please make sure that you can obtain the necessary Insurance Requirements as specified in Article 10 of the General Conditions.

11. Additional Documentation

Please make sure that you have the following documents and they are not expired, or you can easily obtain them. You are encouraged to submit these documents with your bid in order to expedite an evaluation of your bid. (Refer to Instruction to Bidders 2.10)

- Certificate of Compliance (Bonding Company).
- Ohio Worker's Compensation Certificate.
- EEO Certificate of Compliance (Equal Opportunity Division 614/466-8380)
<http://www.das.ohio.gov/Divisions/EqualOpportunity/ConstructionCompliance.aspx>.
- Certificate of Good Standing from the Secretary of State showing the right to do business in the State of Ohio – See Instruction to Bidders 2.10.3.14.
- Plumbing, Electrical, hydronics, refrigeration and heating, ventilating and air conditioning (HVAC) contractors' proof of licensing by the Department of Commerce, Industrial Compliance Division, Ohio Contractors Industry Examining Board (OCIEB).

12. Drug – Free Safety Program

All Bidders are required to show evidence of enrollment, and good standing in, a Drug-Free Safety Program (DFSP) approved by the Ohio Bureau of Workers' Compensation (OBWC). Bidders shall confirm their enrollment on the space provided on the Bid Form.

<https://www.bwc.ohio.gov/employer/services/StateContract/nlbwc/StateContract1.aspx>.

13. Drug-Free Safety Program – Subcontractors

Contractors entering into a Contract shall require each of its Subcontractors on the Project to also be enrolled a Drug-Free Safety Program (DFSP) approved by the Ohio Bureau of Workers' Compensation (OBWC). Prior to authorizing a Subcontractor to commence work on the Project, the Contractor shall submit confirmation of enrollment of its Subcontractors to the AE and Owner on the Subcontractor and Material Supplier Declaration.

14. Unresolved Findings

Effective January 1, 2004, Ohio Revised Code (ORC) 9.24 prohibits the State of Ohio from awarding a contract to any individual or organization against whom the Auditor of State has issued a finding for recovery if the findings for recovery is unresolved at the time of award of contract.

15. Wage Rates

This project requires Prevailing Wages to be paid.

16. Public Records Request

Any person seeking to review public records relating to the bid, such as other bids, may make the request to the Contracts Administrator. Although the law does not require the request to be made in writing, to facilitate a complete and timely response, OFCC recommends the request be made on the requestor's letterhead in writing to the Contracts Administrator.

17. Standard Requirements

Bidders are strongly encouraged to read the current "front-end" section of the specifications to familiarize themselves with the administrative rules. If there are any questions or problems during construction, the "front-end" is what will govern.

- Review 00 73 00 ORW Supplementary conditions – Institutional Security Orders and Expectations for Contractors.
- Contractors shall video/photo existing conditions prior to work

18. OAKS-CI: Project will be administered through the OFCC OAKS-CI, State of Ohio capital improvements computer program. OFCC will provide training if required.

19. Traffic and Parking

ORW will coordinate with contractor on parking requirements

20. Project Requirements

- Site Utilization.
- Storage.
- Trailer Space Availability.
- Deliveries and Scheduling.

21. Utilities and Service Interruptions

- Coordinate with ORW

22. Project Scope Overview and Schedule

23. Questions

Meeting Minutes

PROJECT:	DRC-21F005-02 Ohio Department of Rehabilitation and Correction – Ohio Reformatory for Women Improvements Project – Utility Tunnel Repairs & Harmon Building Sanitary Pipe Repairs (Bid Package 2)	PROJECT NO.:	220248
SUBJECT:	Prebid Meeting	MEETING DATE:	October 10, 2023
MEETING SITE:	Harmon Building	START: 9:00 a.m.	ADJOURN: 11:00 a.m.
PREPARED BY:	J. Bradley Fitzsimmons, CPD	DISTRIBUTION DATE:	October 16, 2023 via Addendum No. 1
ATTENDING:	ODRC – Jeremy Hyer, Tim Stirr OFCC – Matt Spisak ORW – Richard Crawford Buckeye Construction – Todd Kisor H/C Electric – Corey Smith LRT – Trevor Monk NAES – Joel Fuentes Peterson Construction – Ryan Shurman Setterlin – Mitchell Hines Sidney Electric – Tom Mason, Ted Michel Fishbeck – Eric Dickinson, Brad Fitzsimmons, Gary Louis	ATTACHMENTS:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
DISTRIBUTION:	Attendees		

If information contained herein is thought to be inaccurate or incorrect, please contact writer at once for resolution.

The prebid meeting was held in Richard Crawford's office. All invitees received a Prebid Meeting Agenda. A copy of the Prebid Agenda is attached. A site walk was offered and conducted after the meeting.

1. The OSU Prebid Agenda was reviewed and is attached.
2. Gary Louis, Eric Dickinson, and Brad Fitzsimmons with Fishbeck reviewed the project scope at both the Harmon Building and Utility Tunnel.
3. Deadline to submit additional questions is 5:00 p.m. on Friday, October 13, 2023. Any questions that were asked in the meeting are to be followed up by RFI to Gary Louis. Answers will be provided in the first Addendum.
4. An Addendum will be issued on Monday, October 16, 2023, and will include Meeting Minutes and all questions and clarifications.
5. Jeremy Hyer indicated that the general contractor is required to provide site supervision of all subcontractors during their work.
6. Jeremy Hyer indicated that work hours will be finalized at the preconstruction meeting. Typically, four ten-hour days, but can be five eight-hour days if desired.

Attendance Sheet



MEETING: Pre-Bid Meeting

DATE: October 10, 2023

TIME: 10:00 a.m.

PROJECT NAME: Ohio Reformatory for Women Improvements Project
Utility Tunnel Improvements and Harmon Sanitary
Pipe Replacement (Bid Package 2)

LOCATION: ORW Marysville, Union County

PROJECT NO.: DRC-21F005-02

ATTENDED (INITIALS)	NAME	COMPANY REPRESENTED	PHONE NO.	EMAIL
	Gary Louis	Fishbeck	(513) 247-8565	glouis@fishbeck.com
	Kryn Schuman	Peterson Construction	419-941-2133	Schuman@petersonconstruction.co.ca
	Ted Michael	Sidney Electric	937-498-2357	timichael@sidneyelectric.com
	Tom Mason	Sidney Electric Buckeye Construction & Restoration	937-875-0193	tmason@sidneyelectric.com
	Todd Kisor		740-749-5735	tkisor@bcfmco.com
	Mitchell Hines	Settlerlin GC	614-643-3028	m.hines@settlerlin.com
	Trevor Monk	LET	573-907-0189	monkt@LET.biz
	Eric Dickinson	Fishbeck	616-464-3838	edickinson@fishbeck.com
	Brad Fitzsimmons	Fishbeck	614-363-1012	BFITZSIMMONS@FISHBECK.COM
	Tim Spick	ODRC odc Cans	380-201-5041	Timothy.Spick@odc.state.oh.us
	Jell Fremont	NRES	614 949 1638	jell@nres.ohio.com
	Matt Spisak	OFC	614-949-4419	Matthew.Spisak@OFC.ohio.gov
	Cory Smith	H/C Electric	330-745-8878	Csmith@Hischer-claibe.com
	Richard Crawford	ORW	937 337 2392	Richard.Crawford@odc.state.oh.us
	Jeremy Hyer	OSC OAMS	614-579-3926	Jeremy.Hyer@odc.state.oh.us

Document 00 10 00 - Solicitation (General Contracting / Electronic Bid) State of Ohio Standard Requirements for Public Facility Construction – ADDENDUM 1

Electronic bids will be received by:

Ohio Facilities Construction Commission (OFCC)
<https://bidexpress.com>

for the following Project:

Project DRC-21F005-02
Ohio Department of Rehabilitation and Correction
Ohio Reformatory for Women Improvements Project
Utility Tunnel Repairs & Harmon Building
Sanitary Pipe Repairs (Bid Package 2)
Marysville, Union County

in accordance with the Contract Documents prepared by:

Fishbeck
10856 Reed Hartman Highway, Suite 175, Cincinnati, OH 45242
513.469.2370
Gary W. Louis, PE
glouis@fishbeck.com

In compliance with Section 153.08 of the Ohio Revised Code and Section 153:1-8-01 of the Ohio Administrative Code, Bids for this Project are being received, opened, and published through electronic means using the State's electronic bidding service.

To access this Project through the electronic bidding service, you must first register at <https://bidexpress.com> by clicking on the "REGISTER FOR FREE" button and following the instructions. In order to bid, you must create and enable a digital ID within the service. This process requires the submission of notarized paperwork and may take up to five business days to complete. There are no fees to register, create and enable a digital ID, or to download bid documents. There is a small expense on a monthly or per bid basis to submit a bid. The electronic bidding service offers customer support that may be reached at 888.352.2439 or via email at support@bidexpress.com.

Bidders may submit requests for consideration of a proposed Substitution for a specified product, equipment, or service to the Architect/Engineer ("A/E") no later than 10 days prior to the bid opening. Additional products, equipment, and services may be accepted as approved Substitutions only by written Addendum.

From time to time, the Commission issues new editions of the "State of Ohio Standard Requirements for Public Facility Construction" and may issue interim changes. Bidders must submit Bids that comply with the version of the Standard Requirements included in the Contract Documents.

Prevailing Wage rates and Equal Employment Opportunity requirements are applicable to this Project.

This Project is subject to the State of Ohio's Encouraging Diversity, Growth, and Equity ("EDGE") Business Development Program. A Bidder is required to submit with its Bid and with its Bidder's Qualifications form, certain information about the certified EDGE Business Enterprise(s) participating on the Project with the Bidder. Refer to **Section 6.1.10** of the **Instructions to Bidders**.

The EDGE Participation Goal for the Project is **5.0 percent**.

The percentage is determined by the contracted value of goods, services, materials, and labor that are provided by EDGE-certified business(es). The participation is calculated on the total amount of each awarded contract. For more information about EDGE, contact the State of Ohio EDGE Certification Office at <http://das.ohio.gov/eod>, or at its physical location: 4200 Surface Road, Columbus, Ohio 43228-1395; or by telephone at (614) 466-8380.

The Bidder may be subject to a Pre-Award Affirmative Action Compliance Review in accordance with Section 123:2-5-01 of the Ohio Administrative Code including a review of the Bidder's employment records and an on-site review.

The Bidder must indicate on the electronic Bid Form, the locations where its services will be performed in the spaces provided or by attachment in accordance with the requirements of Executive Order 2019-12D related to providing services only within the United States and the requirements of Executive Order 2022-02D prohibiting

purchases from or investment in any Russian institution or company. Failure to do so may cause the Bid to be rejected as non-responsive.

DOMESTIC STEEL USE REQUIREMENTS AS SPECIFIED IN OHIO REVISED CODE SECTION 153.011 APPLY TO THIS PROJECT. COPIES OF OHIO REVISED CODE SECTION 153.011 CAN BE OBTAINED FROM ANY OF THE OFFICES OF THE OHIO FACILITIES CONSTRUCTION COMMISSION.

Bidders are encouraged to be enrolled in and to be in good standing in a Drug-Free Safety Program (“DFSP”) approved by the Ohio Bureau of Workers' Compensation (“OBWC”) prior to submitting a Bid and provide, on the Electronic Bid Form with its Bid, certain information relative to their enrollment in such a program; and, if awarded a Contract, shall comply with other DFSP criteria described in **Section 1.6** of the **General Conditions**.

Electronic bids will be received for:

<u>Trade</u>	<u>Estimate</u>
Base Bid General Contract	\$4,700,000
Alternate 1A	\$320,000
Alternate 1B	\$300,000

until **October 26, 2023** , at **2:00 pm**, when all Bids will be electronically opened. Bid tabulations will be posted no later than 5:00 p.m. on the day Bids are opened.

All Bidders are strongly encouraged to attend the Pre-Bid Meeting on **October 10, 2023**, at 10:00 am. until approximately **12:00 p.m.**, at the following location: Ohio Reformatory for Women, 1479 Collins Avenue Marysville, OH 43040, initial meeting in the Harmon Building.

It is mandatory all attendees shall notify Richard Crawford Richard.Crawford@odrc.state.oh.us 24-hours prior to ensure a gate pass is in place for entry to the facility.

The Contractor is responsible for scheduling the Project, coordinating the Subcontractors, and providing other services identified in the Contract Documents.

The Contract Documents may be downloaded as electronic PDF files from the State’s electronic bidding service at <https://bidexpress.com> at no charge.

END OF DOCUMENT

Document 00 41 13 - Bid Form (General Contract / Electronic Bid)
State of Ohio Standard Requirements for Public Facility Construction – ADDENDUM 1

THIS SAMPLE BID FORM IS PROVIDED WITH THE PROJECT MANUAL AS A PLACEHOLDER ONLY – SUBMIT YOUR BID USING THE ELECTRONIC BID FORM ON [HTTPS://BIDEXPRESS.COM](https://bidexpress.com)

General Info	Alt Total:	Bid Total:
<p>Deadline October 26, 2023 2:00 pm</p> <p>Advertised September 28, 2023</p> <p>Number DRC-21F005-02</p> <p>Business Name Ohio Facilities Construction Commission (OFCC)</p>	<p>Description Ohio Department of Rehabilitation and Correction Ohio Reformatory for Women Improvements Project Utility Tunnel Repairs & Harmon Building Sanitary Pipe Repairs (Bid Package 2).</p> <p>This project provides structural, electrical, plumbing, and HVAC repairs to the existing Utility Tunnel.</p> <p>Alternate #1A of the project replaces existing sanitary pipe in the "A" and "B" wings of the Harmon Building</p> <p>Alternate #1B of the project replaces existing sanitary pipe in the "C" and "D" wings of the Harmon Building</p>	

Procurement Documents

«insert Public Bid Advertisement file name»
→ Public Bid Advertisement

«insert Solicitation file name»
→ Notice to Bidders

«insert Project Manual file name»
→ Procurement & Contracting Requirements and Specifications

«insert Drawings file name»
→ Plans, elevations, sections, details, and schedules

«4» Attachments

Contract Times and Addenda

Contract Times

The time for Substantial Completion of all Work is 365 consecutive days from the Notice to Proceed.

Acknowledgement of receipt of Addenda

Date Addendum #1 Received	Date Addendum #2 Received	Date Addendum #3 Received	Date Addendum #4 Received

■ Allowance Instructions

Allowance amounts are fixed and no entry of data is required by the Bidder. Include each and every Allowance amount in the Base Bid. The Bidder's Fee (overhead and profit) and costs for unloading and handling on the Site, labor, installation costs, and other expenses contemplated for the Allowance must be included in the Base Bid and NOT in the Allowance amount.

■ Allowances (General Contract)

Item	Description	Allowance Amount	Extension
Allowance A-1	Electrical Demolition	\$20,000 x 1 =	\$20,000

■ Unit Price Instructions

Enter the price per unit of measure in the Bid Form and the extension will be automatically calculate. Include the Extension for each and every Unit Price in the Base Bid. Unit prices will be used solely for the purpose of determining the adjustment to the Contract Sum for differences between the estimated quantities on the electronic Bid Form and the actual quantities provided.

■ Unit Prices (General Contract)

Item	Description	Quantity	Unit Price*	Unit of Measure	Extension
Unit Price U-1	Concrete Wall Repair	462	_____	Square Feet	
Unit Price U-2	Concrete Repair at Wall Joint, Full Height	44	_____	Each	
Unit Price U-3	Partial Concrete Wall Replacement	10	_____	Linear Feet	
Unit Price U-4	Full Concrete Wall Replacement	145	_____	Linear Feet	
Unit Price U-5	Concrete Repair around Pipe Penetration	2	_____	Each	
Unit Price U-6	Beam Replacement	3	_____	Each	
Unit Price U-7	Exterior Slab Replacement	1	_____	Each	
«7» Items					Total:

■ Base Bid Instructions

Enter the amount of the Base Bid for ALL LABOR AND MATERIALS to complete the scope of Work. Include the amount of each Allowance (if applicable) and the subtotal of each Unit Price Extension (if applicable) in the Base Bid amount. Failure to include Allowance or Unit Price Extensions in the Base Bid is the responsibility of the Bidder and will not be sufficient reason for adjustment of the Bid amount after the Bid deadline. Do not include Alternates (if applicable) in the Base Bid amount.

■ Base Bid (General Contract)			
Item	Description	Base Bid Amount*	Extension
Base Bid	All Labor and Materials (include Allowances and Unit Price Extensions above)	_____	
1 Item			Total:

■ Alternate Instructions

Enter the amount of each and every Alternate to ADD TO or DEDUCT FROM the Base Bid. Indicate amounts to DEDUCT FROM the Base Bid by entering a minus sign (-) before the amount entered. Do not include Alternate amounts in the Base Bid.

■ Alternates (General Contract)			
Item	Description	Alternate Amount*	Extension
! Alternate: Owner-agency may award independently from entire bid.			
Alternate 1a	All Sanitary pipe replacement work and associated work shown at the Harmon Building areas "A" and "B"	_____	
Alternate 1b	All Sanitary pipe replacement work and associated work shown at the Harmon Building areas "C" and "D"	_____	
«2» Items		Alternate Total:	Total:

■ Bidder Affirmation and Disclosure

The Bidder acknowledges that by submitting its Bid, the Bidder has read and understands the applicable Executive Orders regarding the prohibitions of performance of offshore services, locating State data offshore in any way, or purchasing from Russian institutions or companies. If awarded a Contract, the Bidder will become the Contractor and affirms that both the Contractor and its Subcontractors shall perform no services requested under this Contract outside of the United States.

The Bidder shall provide the locations where services under this Contract will be performed in the spaces provided below or by attachment. Failure to provide this information as part of its Bid may cause the Bidder to be deemed non-responsive and no further consideration will be given to its Bid. If the Bidder will not be using Subcontractors, indicate "Not Applicable" in the appropriate spaces.

1. Principal business location of Contractor:

Contractor Address*	City, State, and Zip*
<input type="text"/>	<input type="text"/>

Name / Principal business location of Subcontractor(s), if known at time of Bid deadline: +

Subcontractor Name*	Address, City, State, and Zip*

2. Location(s) where services will be performed by Contractor (Project Sites): +

Name*	Address, City, State, and Zip*

Name(s) / Location(s) where services will be performed by Subcontractors (Project Sites): +

Subcontractor Name	Address, City, State, and Zip

3. Location(s) where State data will be located by Contractor: +

Address*	City, State, and Zip*

Location(s) where State data will be located by Subcontractor(s), if known at time of Bid deadline: +

Subcontractor Name	Address, City, State, and Zip

Bidder also affirms, understands and agrees that the Contractor and its Subcontractors are under a duty to disclose to the State any change or shift in location of services performed by the Contractor or its Subcontractors before, during and after execution of any Contract with the State. Bidder agrees it shall so notify the State immediately of any such change or shift in location of its services. The State has the right to immediately terminate the contract, unless a duly signed waiver from the State has been attained by the Contractor to perform the services outside the United States.

On behalf of the Bidder, I acknowledge that I am duly authorized to execute this electronic Bid Form including this Bidder Affirmation and Disclosure form and have read and understand that this form is a part of any Contract that Bidder may enter into with the State and is incorporated therein.

EDGE Program Commitment to Participate

Option A

The Bidder commits to meet or exceed the advertised EDGE Participation Goal of the Contract award amount, calculated as a portion of the Base Bid plus all accepted Alternates, by using EDGE-certified Business(es).

The Bidder agrees that if selected for consideration of the Contract, it shall provide (if not provided with the Bidder's Bid) to the Contracting Authority, at the location required and within 3 business days after receiving notice from the Contracting Authority, its fully completed Bidder's Qualification Form, including an EDGE Affidavit form for each EDGE-certified Business proposed for use by the Bidder if awarded the Contract for this Project.

Option B (indicate percentage of participation below)

The Bidder declares that it does not meet the advertised EDGE Participation Goal percentage, but, if awarded the Contract for this Project, commits to provide the percentage of the Contract award amount, indicated above, calculated as a portion of the Base Bid plus all accepted Alternates, by using EDGE-certified Business(es).

The Bidder acknowledges it understands the requirement for it to provide and agrees to provide to the Contracting Authority, if selected for consideration of the Contract, within 3 business days after notice from the Contracting Authority, a detailed Demonstration of Good Faith form describing its efforts undertaken prior to submitting its Bid to meet the advertised EDGE Participation Goal percentage for the Contract for this Project.

The Bidder commits to provide to the Contracting Authority at the location required, and within 3 days after receiving notice from the Contracting Authority, its fully completed Bidder's Qualifications Form, including an EDGE Affidavit form for each EDGE-certified Business proposed for use by the Bidder if awarded the Contract for this Project.

Option C

The Bidder declares that the Bidder is an EDGE-certified Business and that if awarded this Contract, the EDGE Participation percentage will be 100 percent of the Contract award amount.

Select EDGE option above*

Choices...

If option B selected, enter percentage

■ Certifications (State Prevailing Wages)

1. The Bidder has read and understands the proposed Contract Documents and agrees to comply with all requirements of the proposed Contract Documents, regardless of whether the Bidder has actual knowledge of the requirements and regardless of any statement or omission made by the Bidder, which might indicate a contrary intention.
2. The Bidder represents that the Bid is based upon the Basis of Design and Acceptable Components specified by the proposed Contract Documents.
3. The Bidder has visited the Site, become familiar with local conditions, and has correlated personal observations about the requirements of the proposed Contract Documents. The Bidder has no outstanding questions regarding the interpretation or clarification of the proposed Contract Documents.
4. The Bidder understands that the execution of the Project will require sequential, coordinated, and interrelated operations, which may involve interference, disruption, hindrance, or delay in the progress of the Bidder's Work. The Bidder agrees that the Contract Sum, as amended from time to time, shall cover all amounts due from the State resulting from interference, disruption, hindrance, or delay that is not caused by the State or its agents and employees. The Bidder agrees that any such interference, disruption, hindrance, or delay is within the contemplation of the Bidder and the State and that the Contractor's sole remedy from the State for any such interference, disruption, hindrance, or delay shall be an extension of time in accordance with the proposed Contract Documents.
5. During the performance of the Contract, the Bidder agrees to comply with Ohio Administrative Code ("OAC") Chapters 123:2-3 through 123:2-9 and agrees to incorporate the monthly reporting provisions of OAC Section 123:2-9-01 into all subcontracts on the Project, regardless of tier. The Bidder understands the State's Equal Opportunity Coordinator or the Contracting Authority may conduct pre-award and post-award compliance reviews to determine if the Bidder maintains nondiscriminatory employment practices, maintains an affirmative action program, and is exerting good faith efforts to accomplish the goals of the affirmative action program. For a full statement of the rules regarding Equal Employment Opportunity in the Construction Industry, see OAC Chapters 123:2-1 through 123:2-9.
6. The Bidder and each Person submitting a Bid on behalf of the Bidder certifies, and in the case of a Bid by a joint venture each member thereof certifies as to such member's entity, under penalty of perjury, that to the best of the undersigned's knowledge and belief: (a) the Base Bid, any Unit Prices, and any Alternate bid in the Bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Prices or Alternate bid with any other Bidder; (b) unless otherwise required by law, the Base Bid, any Unit Prices and any Alternate bid in the Bid have not been knowingly disclosed by the Bidder and shall not knowingly be disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Prices, or Alternate bid; (c) no attempt has been made or shall be made by the Bidder to induce any other Person to submit or not to submit a Bid for the purpose of restricting competition.
7. The Bidder shall execute the Agreement with the Contracting Authority, if a Contract is awarded on the basis of this Bid, and if the Bidder does not execute the Agreement for any reason, other than as authorized by law, the Bidder and the Bidder's Surety are liable to the State as provided in Article 5 of the Instructions to Bidders.
8. The Bidder certifies that the upon the award of a Contract, as the Contractor it shall make a good faith effort to ensure that all of the Contractor's employees, while working on the Site, shall not purchase, transfer, use, or possess illegal drugs or alcohol or abuse prescription drugs in any way.

- 9. The Bidder acknowledges that it read all of the Instructions to Bidders, and in particular, Section 2.10 - Submittals With Bid Form, and by submitting its Bid certifies that it has read the Instructions to Bidders and it understands and agrees to the terms and conditions stated in them.
- 10. The Bidder agrees to furnish any information requested by the Contracting Authority or the Architect/Engineer to evaluate the responsibility of the Bidder.
- 11. The Bidder agrees to furnish the submittals required by Section 6.1 of the Instructions to Bidders for execution of the Agreement within 10 days of the date of the Notice of Intent to Award.
- 12. When the Bidder is a corporation, partnership or sole proprietorship, an officer, partner or principal of the Bidder, as applicable, shall enter the legal name of the Bidder and the name of the officer, partner or principal of the Bidder (in lieu of signing the Bid Form) in the data fields provided.
- 13. When the Bidder is a joint venture, an officer, partner or principal, as applicable, of each member of the joint venture shall enter the legal name of the applicable member and the name of the officer, partner or principal (in lieu of signing the Bid Form) in the data fields provided.
- 14. The Bidder understands that the Contract is subject to all the provisions, duties, obligations, remedies and penalties of Ohio Revised Code Chapter 4115 and that the Bidder shall pay any wage increase in the locality during the term of the Contract.
- 15. The Bidder represents that the individual that is submitting and digitally signing the electronic Bid is legally authorized to do so.
- 16. Bidder acknowledges that by the act of submitting an electronic Bid that it is digitally signing the actual Bid, which shall serve as the Bidder's authorization for the further consideration and activity in the bidding and contract process.



The Bidder hereby acknowledges that the above representations in this Bid are material and not mere recitals.*

■ Procurement Forms

[Document 00 43 13 - Bid Security Form](#)

→ Upload below and provide original document within 3 days

[Document 00 45 13 - Bidder's Qualifications](#)

→ Upload below or provide within 3 days of request

[Document 00 45 39 - EDGE Affidavit](#)

→ Upload below or provide within 3 days of request

3 Attachments

■ Instructions for Providing Bid Submittals

Submission of Electronic Facsimile of Bid Guaranty with Electronic Bid

The Bidder SHALL UPLOAD and ATTACH TO ITS BID an ELECTRONIC FACSIMILE (scanned PDF document) OF ITS BID GUARANTY, payable to the Contracting Authority, in the form of either: (1) the signed and sealed Document 00 43 13 - "Bid Security Form" contained in the Contract Documents (and provided for the Bidder's convenience in the block above) for the amount of the Base Bid plus all additive Alternates; or (2) a certified check, cashier's check, or letter of credit, for 10 percent of the Base Bid, plus all additive Alternates – a letter of credit shall expressly provide that it is revocable only by the Contracting Authority. Refer to Sections 2.10.1.1 and 5.1 of Document 00 21 13 - "Instructions to Bidders."

Submission of Original Bid Guaranty

In addition to the Electronic Facsimile above, the Bidder SHALL DELIVER ITS ORIGINAL UNALTERED BID GUARANTY to the Project Coordinator at the address identified below WITHIN 3 BUSINESS DAYS AFTER THE BID DEADLINE as provided in Ohio Administrative Code Section 153:1-8-01(H). THIS REQUIREMENT APPLIES TO ALL BIDDERS. Refer to Section 2.10.1.2 of the Instructions to Bidders.

Mr. Gary Kubicki
 Project Coordinator
 Ohio Facilities Construction Commission (OFCC)
 30 W. Spring Street
 4th Floor
 Columbus OH 43215

Non-responsive Bid for Failure to Submit Bid Guaranty

Each Bidder MUST SUBMIT BOTH THE ELECTRONIC FACSIMILE AND THE ORIGINAL UNALTERED BID GUARANTY as described above. The Contracting Authority SHALL REJECT A BID AS NON-RESPONSIVE if the Bidder fails to submit BOTH elements of the Bid Guaranty. The checkboxes below are to identify that you have uploaded the other form of Bid Guaranty. DO NOT CHECK ALL BOXES. Refer to Section 2.10.1 of the Instructions to Bidders.

Submission of Bidder's Qualifications and EDGE Affidavit

The Bidder is encouraged to submit background information with its Bid using Document 00 45 13 - "Bidder's Qualifications" and Document 00 45 39 - "EDGE Affidavit" with the EDGE-certified Business(es) the Bidder proposes to use on the Project (forms provided for the Bidder's convenience in the block above). If the Bidder does not submit the Bidder's Qualifications form and/or the EDGE Affidavit form and related information attached to the electronic Bid Form, the Bidder shall provide it within 3 days of request. Refer to Sections 2.10.3 and 3.5.4 of the Instructions to Bidders.

Required Bid Guaranty Upload	
Name	File*
Document 00 43 13 - Bid Security Form → Upload a scan of the fully executed Bid Security Form AND submit the original document to the Contracting Authority within 3 days of the bid deadline	<input type="button" value="Select file..."/> no file selected <input type="checkbox"/> I am NOT enclosing this document because the omission terms have been met. (Bidder submitted a Cashier's check below)
Power of Attorney → Upload a scan of the fully executed Power of Attorney AND submit the original document to the Contracting Authority within 3 days of the bid deadline	<input type="button" value="Select file..."/> no file selected <input type="checkbox"/> I am NOT enclosing this document because the omission terms have been met. (Bidder submitted a Cashier's check below OR included with the Bid Security Form above)
Cashier's Check for 10% of the Bid → Upload a scan of the Cashier's Check AND submit the original check to the Contracting Authority within 3 days of the bid deadline	<input type="button" value="Select file..."/> no file selected <input type="checkbox"/> I am NOT enclosing this document because the omission terms have been met. (Bidder submitted the Bid Security Form AND Power of Attorney above)
3 Required Documents	

Bidder's Qualifications and EDGE Affidavit Upload	
Name	File*
Document 00 45 13 - Bidder's Qualifications → Upload fully completed form and attachments	<input type="button" value="Select file..."/> no file selected <input type="checkbox"/> I am NOT enclosing this document because the omission terms have been met. (Must be submitted to the Contracting Authority within 3 days of request)

no file selected

Document 00 45 39 - EDGE Affidavit
→ Upload a completed form for each EDGE business

I am NOT enclosing this document because the [omission terms](#) have been met. (Must be submitted to the Contracting Authority within 3 days of request)

2 Required Documents

■ Bidder Signatory Information

Bidder Signatory

Name of Bidder's Authorized Signatory:* **Title of Authorized Signatory:***

All Bidders complete all information in this form. Duplicate and complete the block below for each Joint Venturer:

Bidder Information

Business Name:*

Business Mailing Address, City, State, Zip:*

Telephone Number:* **Facsimile Number:** **Email Address:***

Federal Tax ID Number:* **State of Incorporation (if applicable):**

Contact person for Contract processing:* **Date enrolled in an OBWC-approved DFSP (month/date/year):**

President or Chief Executive Officer's Name:* **President or Chief Executive Officer's Title:***

END OF DOCUMENT

SECTION 03 01 33 – REHABILITATION OF CAST-IN-PLACE CONCRETE

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:
1. Locating and removing delaminated, spalled and unsound concrete.
 2. Preparing cavities created by removals to receive patching materials.
 3. Replacing existing deteriorated concrete and reinforcement.
 4. Repairing concrete expansion joints.
 5. Crack repair.
- B. Concrete restoration work will be paid for on a Lump Sum basis. Refer to Division 00 Bid Form. Provide a Unit Price for any adjustments made to this amount.

1.3 REFERENCES

- A. Except as herein specified or as indicated on the Drawings, the work of this Section shall comply with the following:
1. ASTM:
 - a. A615 – Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.
 - b. A1064 – Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete.
 - c. C31 – Making and Curing Concrete Test Specimens in the Field.
 - d. C33 – Concrete Aggregates.
 - e. C39 – Compressive Strength of Cylindrical Concrete Specimens.
 - f. C94 – Ready-Mixed Concrete.
 - g. C109 – Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens).
 - h. C136 – Sieve Analysis of Fine and Coarse Aggregates.
 - i. C142 – Slump of Hydraulic Cement Concrete.
 - j. C150 – Portland Cement.
 - k. C260 – Air-Entraining Admixtures for Concrete.
 - l. C309 – Liquid Membrane-Forming Compounds for Curing Concrete.
 - m. C494 – Chemical Admixtures for Concrete.
 - n. C1064 – Temperature of Freshly Mixed Hydraulic Cement Concrete.
 - o. D3575 – Flexible Cellular Materials Made From Olefin Polymers.
 2. ACI:
 - a. 301 – Specifications for Structural Concrete.
 - b. 302.1R – Guide for Concrete Floor and Slab Construction.
 - c. 309R – Guide to Consolidation of Concrete.
 - d. 347R – Guide to Formwork for Concrete.
 - e. 503.2 – Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive.
 - f. 503R – Use of Epoxy Compounds with Concrete.
 - g. 546.1R – Guide for Repair of Concrete Bridge Superstructures.
 3. US Corps of Engineers:
 - a. EM – 1110-2 – Corp of Engineers Manual.
 4. International Concrete Repair Institute (ICRI).

1.4 DEFINITIONS

- A. Delaminations: Fracture planes or “internal cracks,” within concrete. Typically, these fractures are parallel to the member face and vary in depth.

- B. Spalls: Potholes, cavities or voids in floor slabs, beams, columns, or walls, usually the result of delaminations migrating to the face of the concrete member. When the delamination reaches the surface, concrete encompassed by the delamination breaks away, resulting in a spall.
- C. Unsound Concrete: Concrete exhibiting one or more of the following:
 - 1. Incipient fractures present beneath existing delaminated or spalled surfaces.
 - 2. Honeycombing.
 - 3. Friable or punky areas.
 - 4. Deterioration from freeze-thaw action.
- D. Scaling: Deterioration which attacks the mortar fraction (paste) of the concrete mix. Scaling first appears as minor flaking and disintegration of a concrete surface and eventually progresses deeper into concrete, exposing aggregate which breaks away. Concrete scaling is caused by freeze-thaw action. If concrete is frozen in a saturated state, excess water freezing in concrete causes high internal stresses.
- E. Saturated Surface Dry (SSD): The condition in which a surface is saturated with water and cannot absorb more, but no free water is present on the surface and is in accordance with the ICRI recommendations.

1.5 SUBMITTALS

- A. Product Data:
 - 1. Submit for each Product to be used on the Project.
 - 2. Include specifications and recommended application procedures showing compliance with the Project requirements.
 - 3. Provide safety data sheets for products used.
 - 4. Provide either an approved ICBO Evaluation Report number in the name of the system and system's Manufacturer, or an evaluation by independent testing facility.
 - 5. Product Suitability:
 - a. Submit signed letter from Product Manufacturer's technical representative stating that they have visited the Site, reviewed conditions and agree that the products specified are suitable for this application.
 - b. The letter shall certify that the Product Manufacturer's technical representative:
 - 1) Is familiar with the project, aware of job conditions and aware of associated products, such as sealants, concrete repair products, and others proposed for the Project.
 - 2) Agrees with the intended application of their products as specified.
 - 3) Agrees with the surface preparation specified.
 - 4) Agrees with project specifications. If necessary, submit revisions to project specifications.
 - 5) Agrees that their product is compatible with associated products, such as sealants, concrete repair materials, and other proposed for the Project.
 - 6) Agrees with the type and quantity of testing specified to ensure their product is adequately installed.
 - 7) Agrees that components of concrete repair materials furnished comply with this Specification and are compatible.
- B. Surface Preparation Methods: Submit details of preparation method to Engineer for review prior to commencing work.

1.6 QUALITY ASSURANCE

- A. Fabrication and Installation Personnel Qualifications:
 - 1. Trained and experienced in the fabrication and installation of the materials and equipment.
 - 2. Knowledgeable of the design and the reviewed Shop Drawings.
 - 3. Each component of a system or product shall be installed by Manufacturer trained personnel. Installers shall demonstrate knowledge of product, installation, and provide documentation of experience on 5 recently completed projects.

- B. **Manufacturer's Services:** Provide 1 day of product Manufacturer's technical representative for start-up of application for each repair product. Review the work to be performed with the applicator.
- C. **Formwork:**
 - 1. Design of formwork is the responsibility of the Contractor.
 - 2. Submit proposed method of forming to Engineer for review prior to placement of concrete.
 - a. Include materials and means of bracing and sealing formwork.
 - 3. Provide adequate means of ensuring complete filling of forms with concrete using bird's mouths or other methods.
 - 4. Refer to ACI 347R for assistance with design of formwork.
- D. **Testing:**
 - 1. **Concrete and Prebagged Mixes:**
 - a. A special inspector will be engaged as indicated in Division 01 Section "Special Inspections and Tests".
 - b. Cooperate fully with the special inspector while they perform special inspections.
 - c. Provide for additional material, time, expense and repair cost to allow testing to be performed.
 - d. Special inspector shall be at the Site for sampling, inspection and testing during concrete repair placement.
 - e. **Concrete Repair Material Testing:**
 - 1) Perform compressive strength, slump and concrete temperature tests at the point of placement for each batch of ready-mixed concrete and prebagged repair mixes used each day.
 - 2) Mold 3 x 6 compressive strength test specimens in accordance with ASTM C31 and test in accordance with ASTM C39.
 - 3) Perform slump and temperature tests in accordance with ASTM C143 and C1064, respectively.
 - 4) Test 2 cylinders minimum per set of specimens for compressive strength at 7 days and 2 cylinders minimum for compressive strength at 28 days.
 - 5) Mold 2 reserve cylinders for testing at later ages if required.
 - f. **Trowel Applied Prebagged Mixes:** Make 1 set of three 2-inch cubes from each prebagged mix placed each day to test in accordance with ASTM C109 and Manufacturer's requirements.

1.7 PROJECT CONDITIONS

- A. Provide temporary/mobile air temperature, humidity and ventilation control during the course of this project.
- B. Provide equipment and fuel as required to condition the space for surface preparation, application of products, and curing of those products, in accordance with Manufacturer's requirements. Equipment may include, but not be limited to, dehumidification, heaters, and fans for intake and exhaust air.
- C. Contractor may use Owner's electrical power for temporary/mobile air system.

1.8 WARRANTY

- A. Installed products under this section shall be fully warranted for a period of five years against defects in materials or workmanship commencing with the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. **VOC Compliance:**
 - 1. Individual coatings and coating systems shall have VOC levels at or below the EPA recommendations identified in 40 CFR Part 59.
 - 2. Test VOC content in accordance with EPA Method 24.

- B. Vertical and Overhead (Walls and Ceilings) Trowelable Concrete Repairs:
 - 1. Prebagged products.
 - 2. SikaQuick VOH.
 - 3. Euclid Verticoat Supreme.

- C. Vertical and Overhead (Walls and Ceilings) Form and Pour Concrete Repairs: Sikacrete 211 SCC+.

- D. Horizontal (Slabs) Trowelable Concrete Repairs:
 - 1. Prebagged Products:
 - a. SikaTop 122+.
 - b. Euclid Concrete-Top Supreme.

- E. Horizontal (Slabs) Form and Pour Concrete Repairs: Sikacrete 211 SCC+.

- F. Horizontal (Slabs) Cementitious Overlays:
 - 1. For thickness of 1/4-inch to 2-inches: SikaQuick 1000 neat.
 - 2. For thicknesses of 2-inches to 6-inches: SikaQuick 1000 extended.
 - 3. For thicknesses 1-inch to 8-inches: Sikacrete 211 SCC+.

- G. Structural Injection Resins:
 - 1. Sikadure 52 by Sika Corp.
 - 2. Denepox I 300 by DeNeef.
 - 3. ULV140 by ThoRoc.
 - 4. Sure Inject by Dayton-Superior.
 - 4.5. Koster KB-Pox IN.

- H. Water Reactive Injection Polyurethane Sealants:
 - 1. Hydrophobic:
 - a. Webac (Seal Boss) 1572.
 - b. DeNeef Flex LV.
 - c. Sika Fix HH Plus.
 - c-d. Koster IN 5.
 - d-e. Or equal.
 - 2. Hydrophilic:
 - a. Adeka Ultra Seal P-201.
 - b. Sika Fix HH Hydrophilic.
 - b-c. Koster IN 7.
 - c-d. Or equal.
 - 3. Oakum:
 - a. Dry twisted jute oakum.
 - b. Federal Spec HH-P-117.
 - c. DeNeef; or equal.
 - 4. Plastic Foam:
 - a. Closed-cell polyethylene foam, unless otherwise indicated, in accordance with ASTM D3575.
 - b. Preformed, compressible, resilient, non-waxing, non-extruding flexible, non-gassing strips, non-absorbent to water and gas.
 - c. Of size, shape and density to control sealant depth.

- I. Hydraulic (Water Stop) Grouts:
 - 1. ThoRoc Plug by ThoRoc.
 - 2. Water Stop by Dayton-Superior.
 - 3. Sika Set Plug by Sika Corp.
 - 3.4. Koster Micro Grout 1C.

- J. Membrane Curing Compound:
 - 1. Water based, dissipating.
 - 2. Type 1 - Clear or translucent without dye.
 - 3. Comply with ASTM C309.
- K. Corrosion Inhibitor:
 - 1. For surface application on reinforcing bars:
 - a. Sika Armatec 110 Epo Cem by Sika.
 - b. Dural Prep AC by Euclid.
- L. Steel Reinforcing:
 - 1. Reinforcing Bars: ASTM A615, yield stress $F_y = 60,000$ psi.
 - 2. Welded Wire Fabric: ASTM A185 or A1064, yield stress $F_y = 65,000$ psi.
- M. Provide primers as required in accordance with Manufacturer's recommendations.

PART 3 - EXECUTION

3.1 GENERAL

- A. Installation: In accordance with Manufacturer's recommendations.
- B. Inspection: Do not install patching or reinforcing material until special inspector has inspected the repair location.
- C. Temporary Shoring:
 - 1. May be required at slab, beam, joist, or column repairs.
 - 2. Review marked removal and preparation areas and request clarification by Engineer for shoring requirements in questionable areas.
 - 3. In areas requiring shores, place shores prior to concrete removal and cavity preparation.
 - 4. Provide catch platform for removed concrete if necessary to prevent damage to portions of the Site to remain.
- D. Waste: Remove material from Site and dispose of legally.

3.2 CONCRETE REPAIRS

- A. General:
 - 1. Delaminated Areas:
 - a. Examine cavities prior to commencement of patching operations.
 - b. Sound surfaces as part of examination.
 - c. Remove delamination noted during sounding as specified in this Section.
 - d. Once located, further sound delaminations to define limits.
 - e. Mark limits with chalk or paint.
 - f. Remove concrete from within marked limits to minimum depth using 15 pound maximum electric or pneumatic chipping hammers or hand tools.
 - g. If delaminations exist beyond minimum removal depth, continue chipping until unsound and delaminated concrete has been removed from cavity.
 - h. Engineer will define and mark additional unsound concrete areas for removal, if required.

2. Spalls:
 - a. Locate spalls by visual inspection.
 - b. Mark boundaries with chalk or paint after sounding surface.
 - c. Engineer will define and mark additional unsound concrete areas for removal, if required.
3. Embedments:
 - a. Locate and determine depth of embedded reinforcement, electrical conduit, and other embedments in repair area.
 - b. Mark these locations for reference during concrete removal.
 - c. Where embedded reinforcement or electrical conduit is exposed by concrete removal, exercise caution to avoid damaging it during removal of unsound concrete.
 - d. Repair damage to embedments due to removal operations in accordance with building code requirements at no cost to the Owner.
 - e. Embedded materials which are defective prior to construction may be repaired or replaced by Contractor or abandoned at Owner's option and cost.
4. Sawcut Edges:
 - a. Sawcut marked limits to depth of 3/4-inch into existing concrete, measured from original surface.
 - b. Make sawcut edges straight and patch areas square or rectangular-shaped.
 - c. Diamond blade saws or grinders with abrasive disk suitable for cutting concrete are acceptable for performing work.
 - d. Dress edge cut at delamination limits perpendicular to member face and uniform depth, for length of cut.
 - e. Exercise caution during saw cutting to avoid damaging existing reinforcement, electrical conduit and other embedded items near surface of concrete.
 - f. Repair damage to existing reinforcement or other embedment caused by Contractor at no additional cost to Owner.
5. Clearance:
 - a. Remove concrete to provide minimum of 3/4-inch clearance on all sides of defective or damaged exposed embedded reinforcement that is left in place.
 - b. Provide minimum of 1-1/2-inch concrete cover over new and existing reinforcement.
 - c. Concrete cover over reinforcement may be reduced to 1-inch with Engineer approval if coated with a reviewed epoxy resin.
6. Preparing Cavities:
 - a. Sandblast cavities; water blasting is prohibited.
 - b. Remove deleterious materials such as damaged concrete, corrosion, laitance, dirt and grease from concrete surfaces.
 - c. Roughen surface to CSP-7 as defined by the ICRI.
 - d. Air blast as final step, to remove sand.
 - e. Apply corrosion inhibitor on full circumference of reinforcing bars.
7. Rectangular Areas:
 - a. Prepare areas to be removed as straight and rectangular as practical to encompass repair and provide neat patch.
 - b. Avoid acute angles on patch.
8. Reinforcement Repair:
 - a. Supplement defective or damaged embedded reinforcement by addition of reinforcement of equal diameter with Class "B" minimum splice in accordance with ACI 318 extending beyond damaged portion of reinforcement.
 - b. Secure new reinforcement to existing reinforcement with wire ties or approved anchors into concrete, or both.
 - c. Install supplemental reinforcement in accordance with ACI 318 and ACI 301.
 - d. If rust is present on embedded reinforcement where it enters sound concrete, perform additional concrete removal along and beneath reinforcement.
 - e. Continue additional removal until non-rusted reinforcement is exposed. Concrete removal may be terminated as Engineer directs.
 - 1) If bond between exposed embedded reinforcement and adjacent concrete is impaired by removal operations, perform additional removal around and beyond perimeter of reinforcement for minimum of 3/4-inch along entire length affected at no cost to Owner.
 - 2) Remove rust from the full circumference of reinforcement.

- f. Defective Reinforcement:
 - 1) Embedded reinforcement exposed during surface preparation that has lost more than 10% of original cross-section due to corrosion.
 - 2) Exposed reinforcement that has lost section to extent specified as direct result of Contractor's removal operations.
 - g. Clean exposed rusted steel to bare metal by sandblasting; water blasting is not allowed.
 - h. Complete cleaning immediately before patch placement to ensure that base metal is not exposed to elements and further rusting for extended periods of time.
 - i. Securely anchor loose reinforcement exposed during preparation prior to patch placement.
 - j. Drilled-in anchors shall be reviewed by Engineer.
 - k. Engineer will determine adequacy of wire ties and approve other anchoring devices prior to their use.
 - l. Securing loose reinforcement is incidental to surface preparation and no additions to the Contract Sum will be allowed for this work.
9. Inspection of Repair Preparation:
- a. Inspection:
 - 1) After removals are complete, but prior to final cleaning, inspect cavity and exposed reinforcement and obtain Engineer's review for compliance with requirements of this Section.
 - 2) Where Engineer finds unsatisfactory cavity preparation, perform additional removals. Engineer will verify areas after additional removals.
 - b. Defects:
 - 1) Inspect embedded reinforcement and conduits exposed within cavity for defects due to corrosion or damage resulting from removal operations.
 - 2) Notify Engineer of defective and damaged reinforcement, conduits or other embedments.
 - 3) Replace damaged or defective embedments according to this Section and as directed by Engineer.
10. Provide other preparation as required by the Manufacturer of the patching compounds.
11. Inform Engineer at least 2 days in advance of concrete repair placement to allow adequate time for Engineer to schedule inspection.
12. Use form and fill method, trowel on fill method, or shotcrete fill method, as Manufacturer recommends.
13. Pre-dampen cavity surface with clean water to a saturated surface dry (SSD) condition with no free water.
- a. Provide 24 continuous hours of poured water on horizontal surface cavities and 24 continuous hours of sprinkler wetting on vertical surface cavities immediately prior to placement of concrete repair material.
14. Place concrete continuously at each repair area until reinforcing steel is encapsulated, forms are full and air pockets are eliminated.
15. Utilize vibrators to assist in consolidating concrete.
- a. Do not over vibrate concrete.
 - b. Concrete over vibration (concrete segregation) will be cause for rejection of the work.
 - c. Refer to ACI 309R for assistance with the selection, numbers and use of vibrators.
16. Protect freshly applied concrete from premature drying and maintain with minimal moisture loss at a relatively constant temperature for a minimum of 7 days.
17. Use a form release agent that is compatible with specified curing compounds.
18. Leave forms in place for a minimum of 3 days.
19. Immediately after removing forms, either wet cure or apply at least 2 coats of curing compound in accordance with Manufacturer's recommendations.
20. 14 days or later after installation of repairs, sound repaired concrete in presence of Engineer. Remove delaminated or otherwise unsound concrete encountered and place new repair concrete.
- B. Floor Slabs:
- 1. Sound designated floors for delaminations.
 - 2. Locate delaminations by sounding surface with hammer, rod, or chain drag.
 - 3. When delaminated area is struck, a distinct hollow sound will be heard.
- C. Vertical and Overhead Surfaces:
- 1. Locate delaminations by sounding appropriate member with hammer or rod.
 - 2. Cracks, usually horizontal in orientation along beam faces, and vertical in orientation near column corners are indicators of delaminated concrete.

- D. Crack Repair:
 - 1. Refer to Drawings for specific criteria for crack repair.
 - 2. Follow sealant Manufacturer's specific guidelines where more stringent than those specified herein.
 - 3. Seal cracks the same day as they are prepared.
 - 4. Utilize a dry process to rout cracks.

- E. Coat and Protect:
 - 1. After sandblasting operations and cleanup are completed, paint exposed steel with the reviewed epoxy.
 - 2. Protect prepared surfaces from damage prior to and during patch placement.

3.3 CRACK INJECTION

- A. Preparation:
 - 1. With Owner's representative, identify cracks and cold joints on the Site requiring crack injection.
 - 2. Ensure cracks and adjacent substrate are clean, sound and free of frost.
 - 3. Remove dust, laitance, grease, curing compounds, waxes, impregnations, foreign particles, efflorescence and other bond inhibiting materials from the surface by mechanical means, such as high pressure water blasting, or other methods as recommended by the Manufacturer.

- B. Injection Ports:
 - 1. Locate injection ports directly on the crack or drill them along the side of the crack at 45 degrees.
 - 2. Drill the hole to intersect the crack midway through the substrate.
 - 3. Install the injection packers (ports) in the holes.
 - 4. Install injection ports and grout ports as recommended by the product Manufacturer.
 - 5. Space injection ports as required to achieve travel of the adhesive for the pressure injection grouting between ports and to completely fill the cracks.
 - 6. Stagger ports each side of the crack.

- C. Injection:
 - 1. Mix injection products which are composed of individual components in accordance with the Manufacturer's recommendations.
 - 2. Dispense the adhesive for injection under constant pressure in accordance with procedures recommended by the equipment Manufacturer or as required to achieve maximum filling and penetration of the prepared cracks without the inclusion of air pockets or voids in the adhesive.
 - 3. Begin injection of adhesive into each crack at the entry port at the lowest elevation.
 - 4. Continue injection at the first port until the injection adhesive begins to flow out of the port at the next highest elevation or until the material is flowing out of the crack between these ports.
 - 5. Upon completion, remove injection packers, clean ports and grout holes.

3.4 PROTECTION

- A. Enclosures:
 - 1. If recommended by Manufacturer construct a weather-tight enclosure around the exterior of the surface to be repaired, to control temperature.
 - 2. The enclosure shall be of such quality as to maintain optimal conditions for the repair work.
 - 3. The enclosures shall remain until the repair work is sufficiently cured.

- B. Equipment:
 - 1. Provide as required to condition the space for repair work.
 - 2. Equipment may include, but not be limited to, heaters, dehumidification, and fans for intake and exhaust air.

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Engineer: Check work.

- B. Promptly make corrections, changes, and additions required by Manufacturer's engineer.

Ohio Department of Rehabilitation and Correction
Ohio Reformatory for Women Improvements Project
Utility Tunnel Repairs & Harmon Building Sanitary Pipe
Repairs (Bid Package 2)
Owner Project Number: DRC-21F005-02
Project Number Fishbeck: 220248 – **ADDENDUM NO. 1**

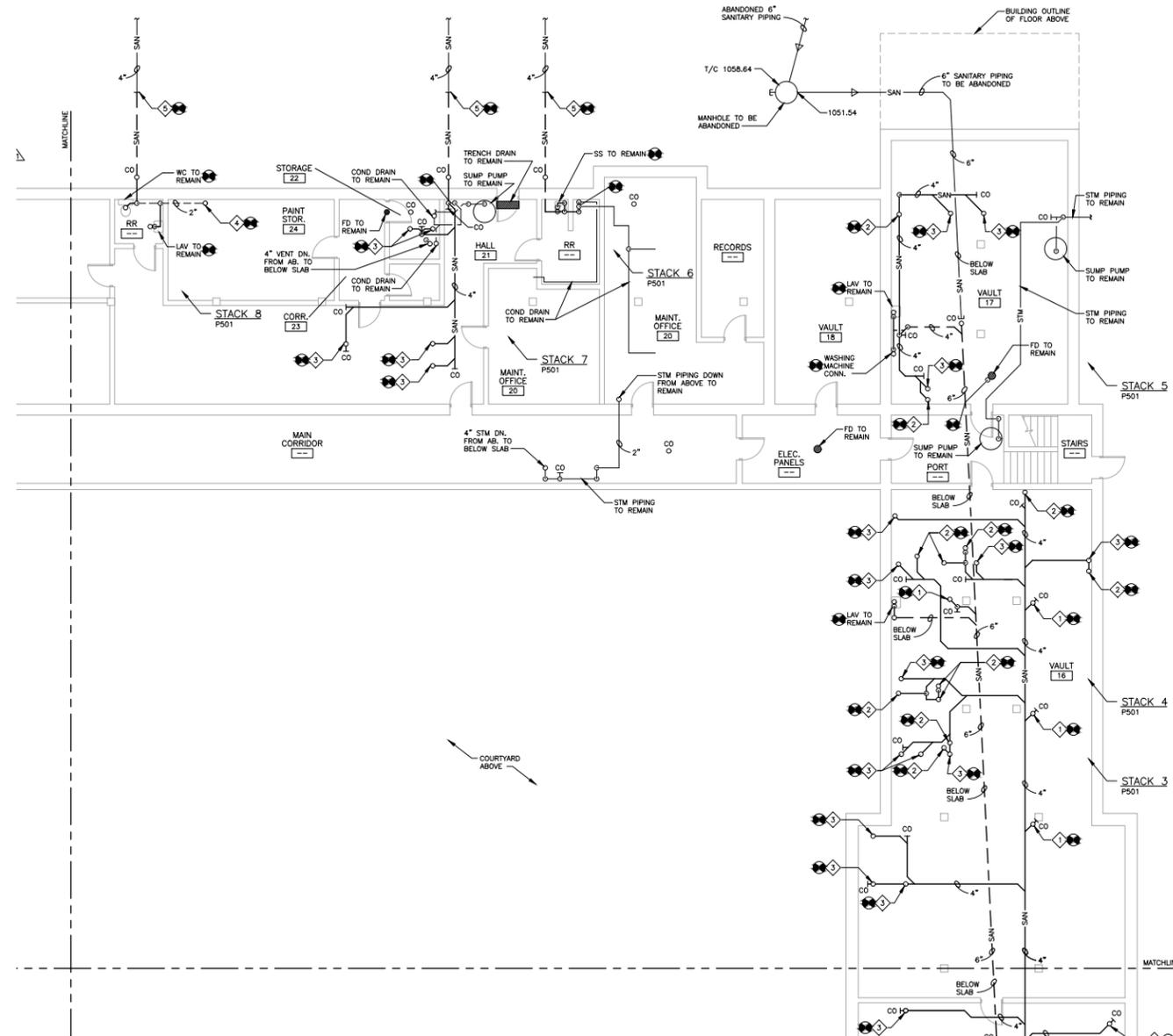
Rehabilitation of Cast-in-Place Concrete

Section 03 01 33

3.6 CLEANING

- A. Clean materials installed under this Section in accordance with Division 01 Section "Cleaning and Waste Management."

END OF SECTION 03 01 33



NOTES

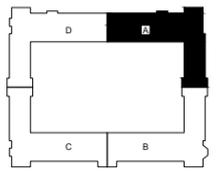
1. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES ON THIS FLOOR AND FLOOR ABOVE AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT. RECONNECT TO EXISTING VENT AND DUCTS, WHEN PIPING AS REQUIRED.
2. PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

KEY NOTES

1. 4" SAN PIPING DOWN FROM FLOOR ABOVE.
2. 2" SAN PIPING DOWN FROM FIXTURE ABOVE.
3. 4" SAN PIPING DOWN FROM FIXTURE ABOVE.
4. 2" VENT PIPING UP TO FLOOR ABOVE.
5. 4" SAN PIPING TO CONNECT TO NEWER PVC PIPING AT APPROXIMATELY 15'-0" OUTSIDE BUILDING.

ALTERNATE 1A
BASEMENT AREA A SANITARY PIPING PLAN
SCALE: 1/8" = 1'-0"
FINISHED FLOOR ELEVATION = 1054.25

KEY PLAN



OHIO REFORMATORY FOR WOMEN
Marysville, Ohio
Hammon Building Sanitary Pipe Repairs

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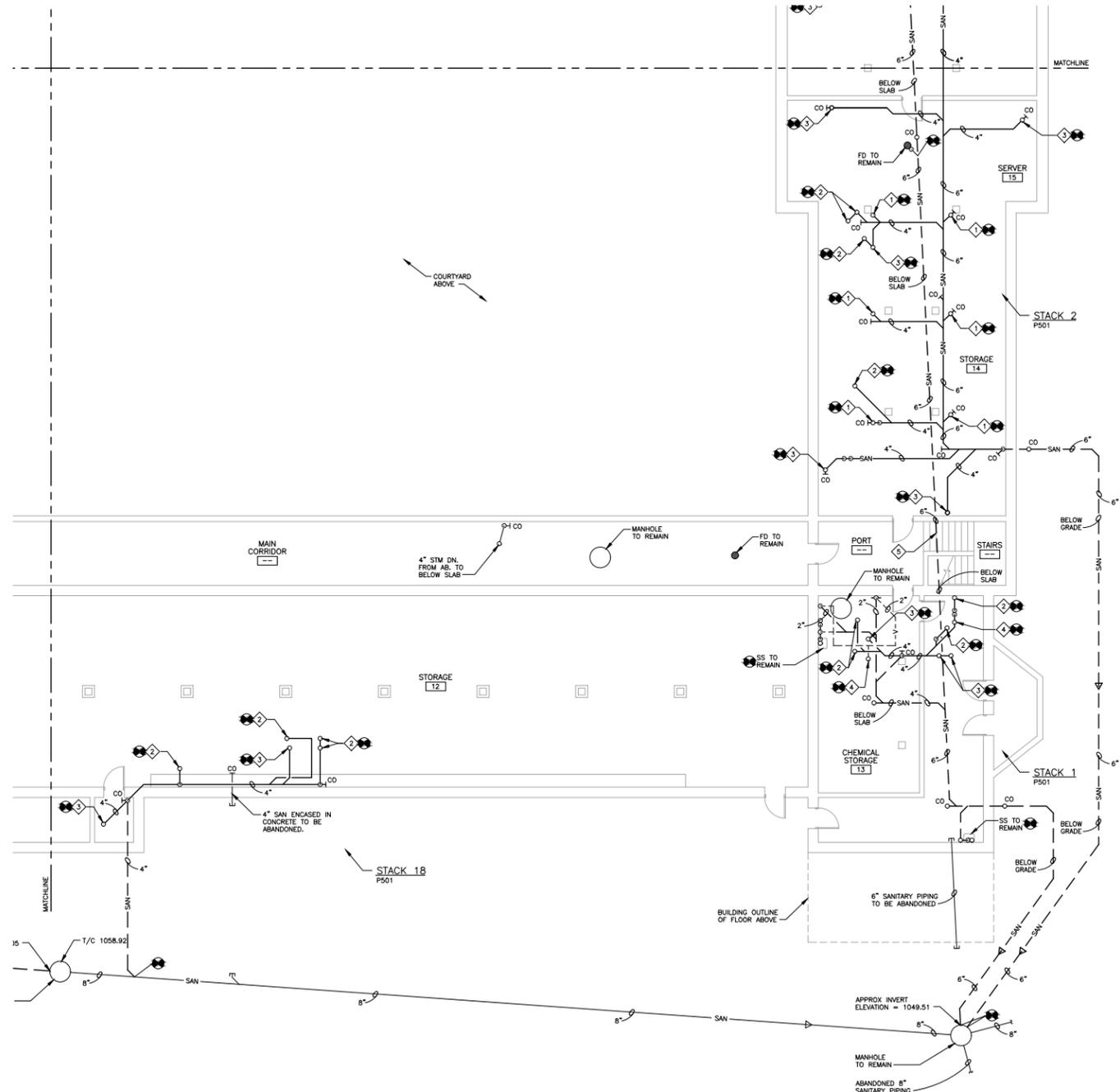
Drawn By: JIS
Designer: JIS
Reviewer: GWL
Manager: GWL

PROJECT NO.
220248
SHEET NO.

2.P01

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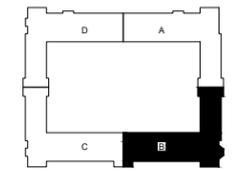


ALTERNATE 1A
BASEMENT AREA B SANITARY PIPING PLAN
 SCALE: 1/8" = 1'-0"
 FINISHED FLOOR ELEVATION = 1054.25

- NOTES**
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES ON THIS FLOOR AND FLOOR ABOVE AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT, RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
 - PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

- KEY NOTES**
- 4" SAN PIPING DOWN FROM FLOOR ABOVE.
 - 2" SAN PIPING DOWN FROM FIXTURE ABOVE.
 - 4" SAN PIPING DOWN FROM FIXTURE ABOVE.
 - 2" VENT PIPING UP TO FLOOR ABOVE.
 - VERIFY EXACT LOCATION OF BELOW SLAB SANITARY PIPING IN RELATION TO STAIRS. PIPING HAS BEEN SHOWN IN ANTICIPATED LOCATION. ROUTE NEW PIPING AROUND STAIRS IF REQUIRED.

KEY PLAN



REVISIONS

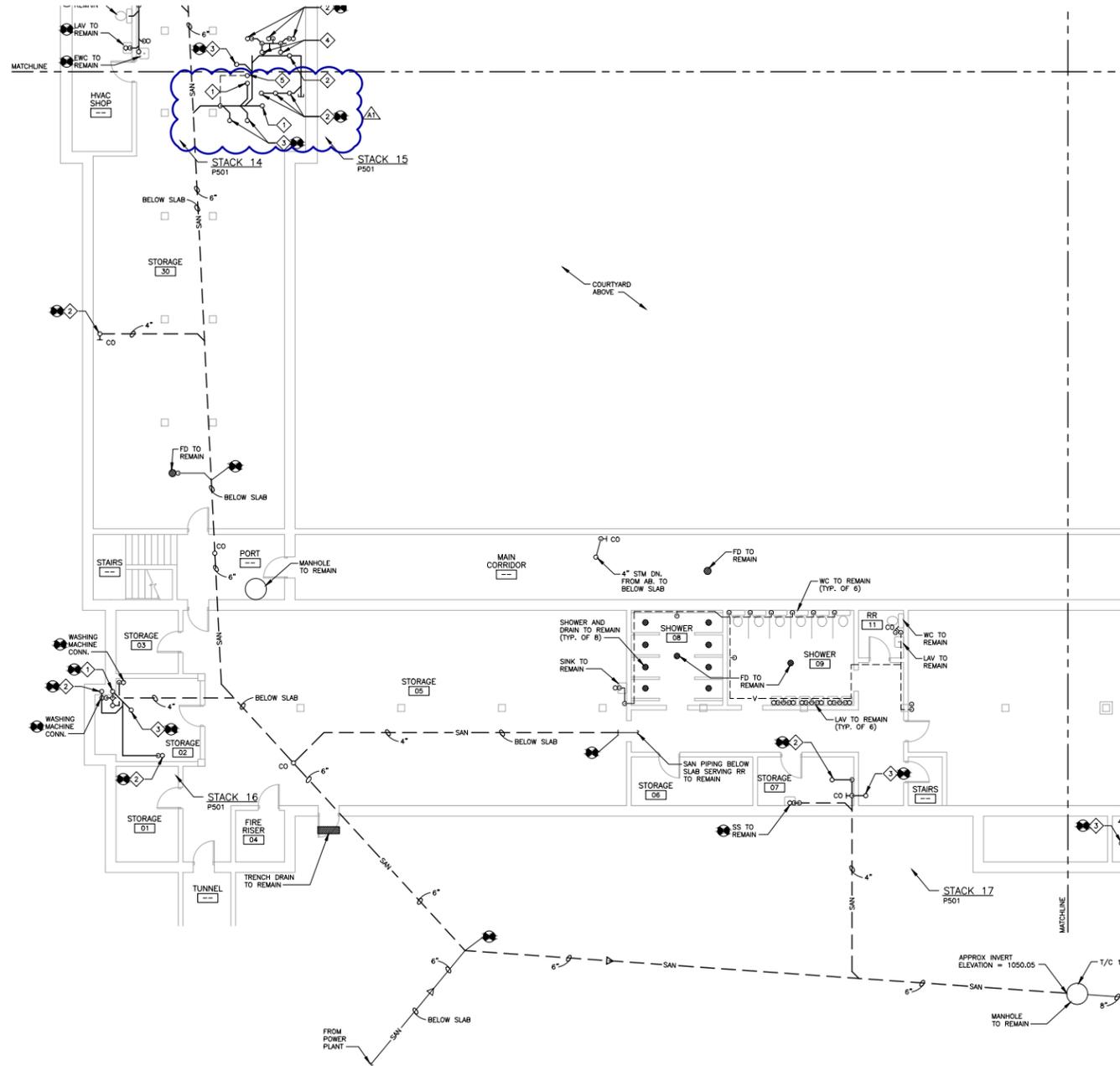
10/16/2023	A1	ADDENDUM NO. 1
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Drawn By: JBP
 Designer: JBP
 Reviewer: GWL
 Manager: GWL

PROJECT NO.
220248

SHEET NO.

2.P02



ALTERNATE 1B
BASEMENT AREA C SANITARY PIPING PLAN
 SCALE: 1/8" = 1'-0"
 FINISHED FLOOR ELEVATION = 1054.25

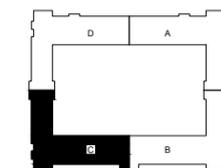
NOTES

1. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES ON THIS FLOOR AND FLOOR ABOVE AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT, RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
2. PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

KEY NOTES

1. 4" SAN PIPING DOWN FROM FLOOR ABOVE.
2. 2" SAN PIPING DOWN FROM FIXTURE ABOVE.
3. 4" SAN PIPING DOWN FROM FIXTURE ABOVE.
4. 2" VENT PIPING UP TO FLOOR ABOVE.
5. 3" VENT STACK UP TO FLOOR ABOVE.

KEY PLAN



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 220248
 SHEET NO.

2.P03

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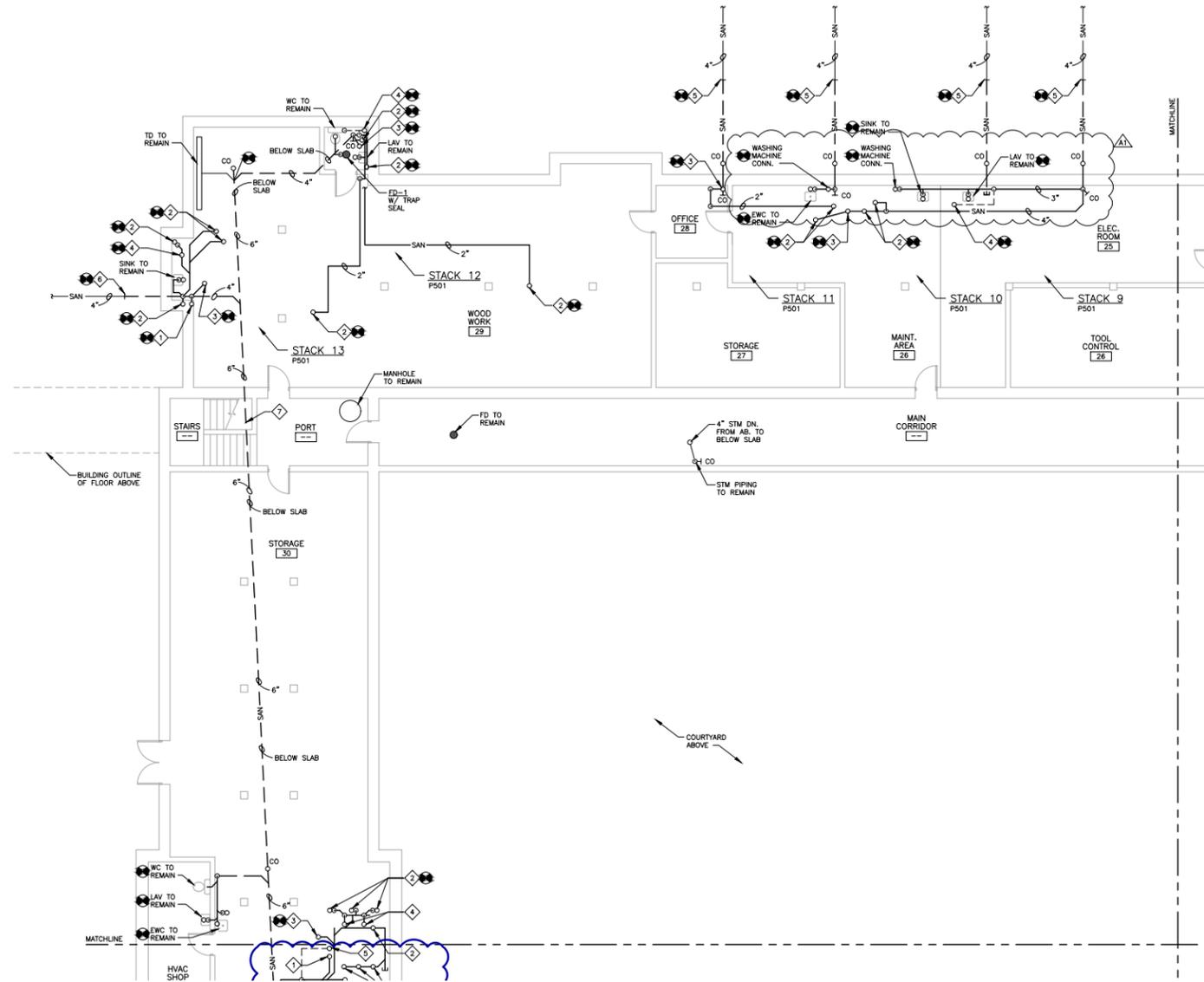
OHIO REFORMATORY FOR WOMEN
 Marysville, Ohio
 Hammon Building Sanitary Pipe Repairs

REVISIONS

10/18/2021	A1	ACCENDUM NO. 1
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Drawn By: JIF
 Designer: JIF
 Reviewer: GWL
 Manager: GWL

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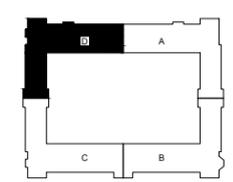


- NOTES**
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES ON THIS FLOOR AND FLOOR ABOVE AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT, RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
 - PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

- KEY NOTES**
- 4" SAN PIPING DOWN FROM FLOOR ABOVE.
 - 2" SAN PIPING DOWN FROM FIXTURE ABOVE.
 - 4" SAN PIPING DOWN FROM FIXTURE ABOVE.
 - 2" VENT PIPING UP TO FLOOR ABOVE.
 - 4" SAN PIPING TO CONNECT TO NEWER PVC PIPING AT APPROXIMATELY 13'-0" OUTSIDE BUILDING.
 - 4" SAN PIPING TO CONNECT TO EXISTING AT APPROXIMATELY 5'-0" OUTSIDE BUILDING.
 - VERIFY EXACT LOCATION OF BELOW SLAB SANITARY PIPING IN RELATION TO STAIRS. PIPING HAS BEEN SHOWN IN ANTICIPATED LOCATION. ROUTE NEW PIPING AROUND STAIRS IF REQUIRED.

ALTERNATE 1B
BASEMENT AREA D SANITARY PIPING PLAN
SCALE: 1/8" = 1'-0"
FINISHED FLOOR ELEVATION = 1054.25

KEY PLAN



OHIO REFORMATORY FOR WOMEN
Marysville, Ohio
Hammon Building Sanitary Pipe Repairs

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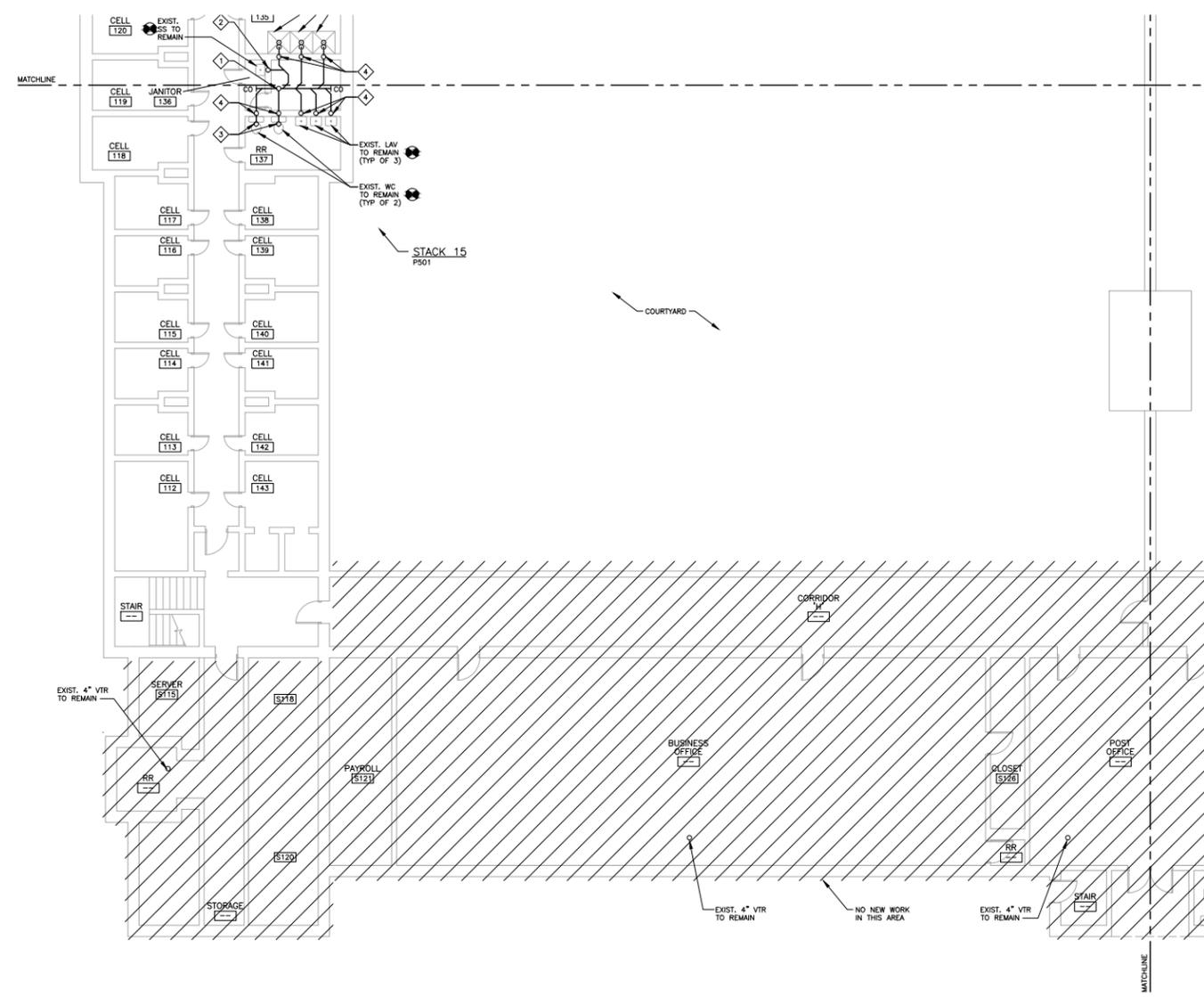
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Drawn By: JIS
Designer: JIS
Reviewer: GWL
Manager: GWL

PROJECT NO.
220248
SHEET NO.

2.P04

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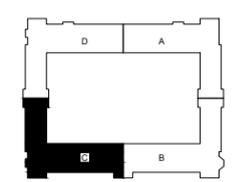


ALTERNATE 1B
FIRST FLOOR AREA C SANITARY PIPING PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

- NOTES**
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT. RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
 - PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

- KEY NOTES**
- 4" SAN PIPING DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.
 - 2" SAN PIPING DOWN FROM FIXTURE ABOVE.
 - 4" SAN PIPING DOWN FROM FIXTURE ABOVE.
 - 2" VENT PIPING UP TO FLOOR ABOVE.

KEY PLAN



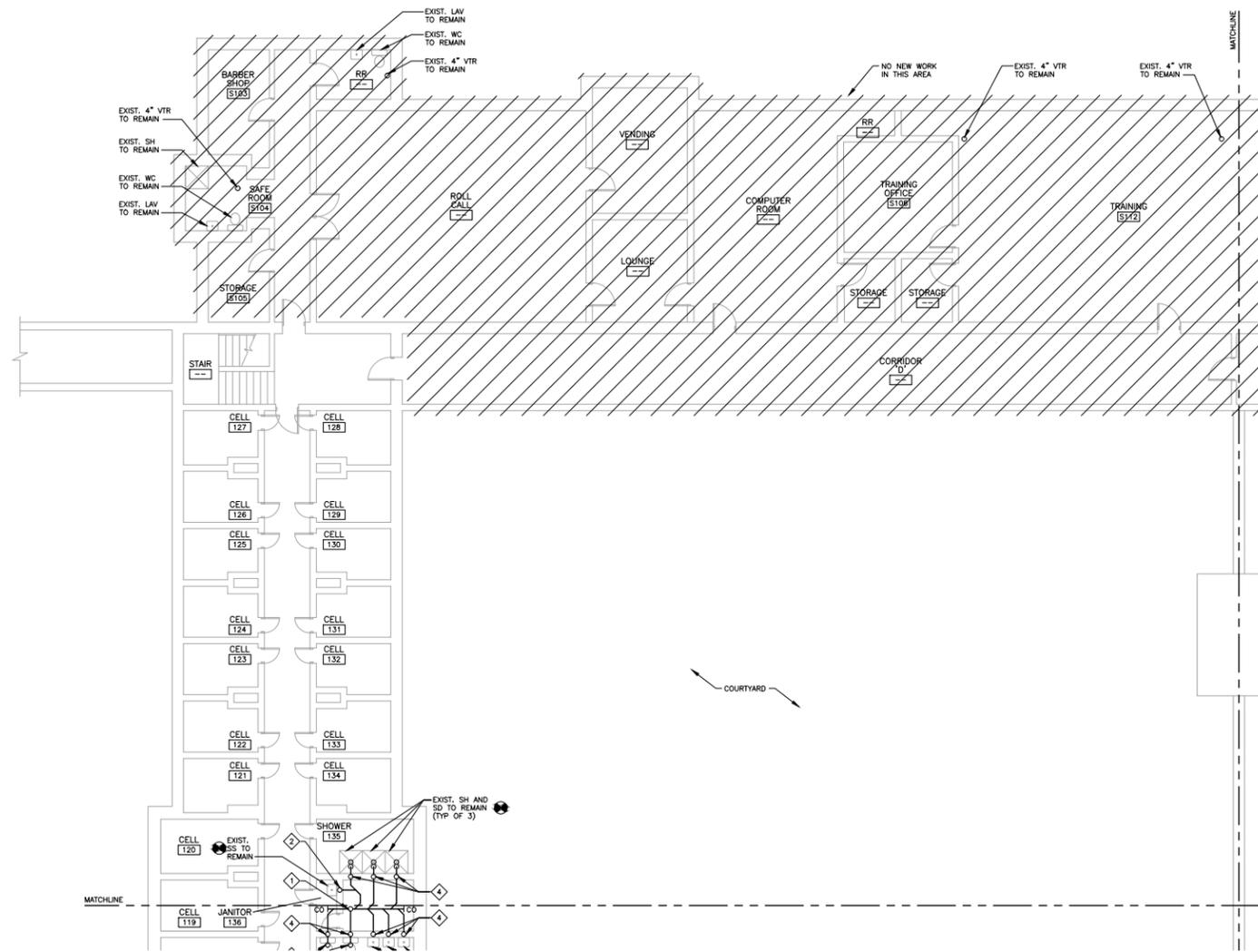
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Drawn By: JIS
 Designer: JIS
 Reviewer: GWL
 Manager: GWL

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2.P05



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT, RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
2. PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

KEY NOTES

1. 4" SAN PIPING DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.
2. 2" SAN PIPING DOWN FROM FIXTURE ABOVE.
3. 4" SAN PIPING DOWN FROM FIXTURE ABOVE.
4. 2" VENT PIPING UP TO FLOOR ABOVE.

ALTERNATE 1B
FIRST FLOOR AREA D SANITARY PIPING PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

OHIO REFORMATORY FOR WOMEN
 Marysville, Ohio
Hammon Building Sanitary Pipe Repairs

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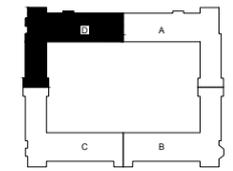
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Drawn By: JIS
 Designer: JIS
 Reviewer: GWL
 Manager: GWL

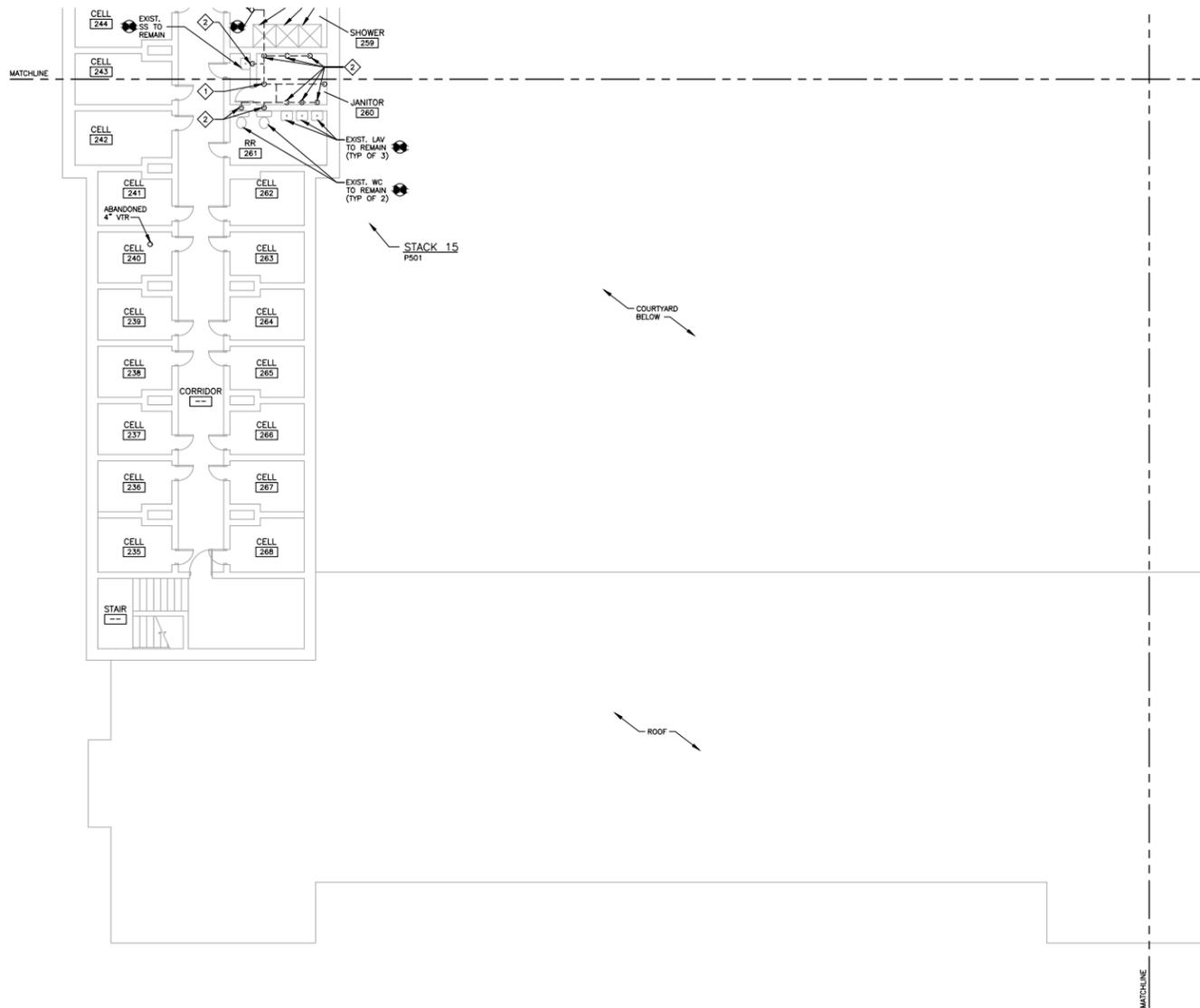
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220248
 SHEET NO.

2.P06

KEY PLAN



PLOT INFO: 2:59:20/2024/6/20/2024/2024/DWG LAYOUT 2.P07 DATE: 10/16/2023 TIME: 11:14:59 AM USER: JBFITZSIMMONS



ALTERNATE 1B
SECOND FLOOR AREA C SANITARY PIPING PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

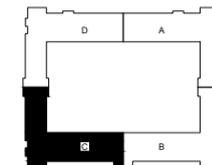
NOTES

- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES AS REQUIRED. TO FACILITATE SANITARY PIPING REPLACEMENT, RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
- PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

KEY NOTES

- 4" VENT UP FROM FLOOR BELOW.
- 2" VENT PIPING UP FROM FLOOR BELOW.

KEY PLAN



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 SHEET NO.

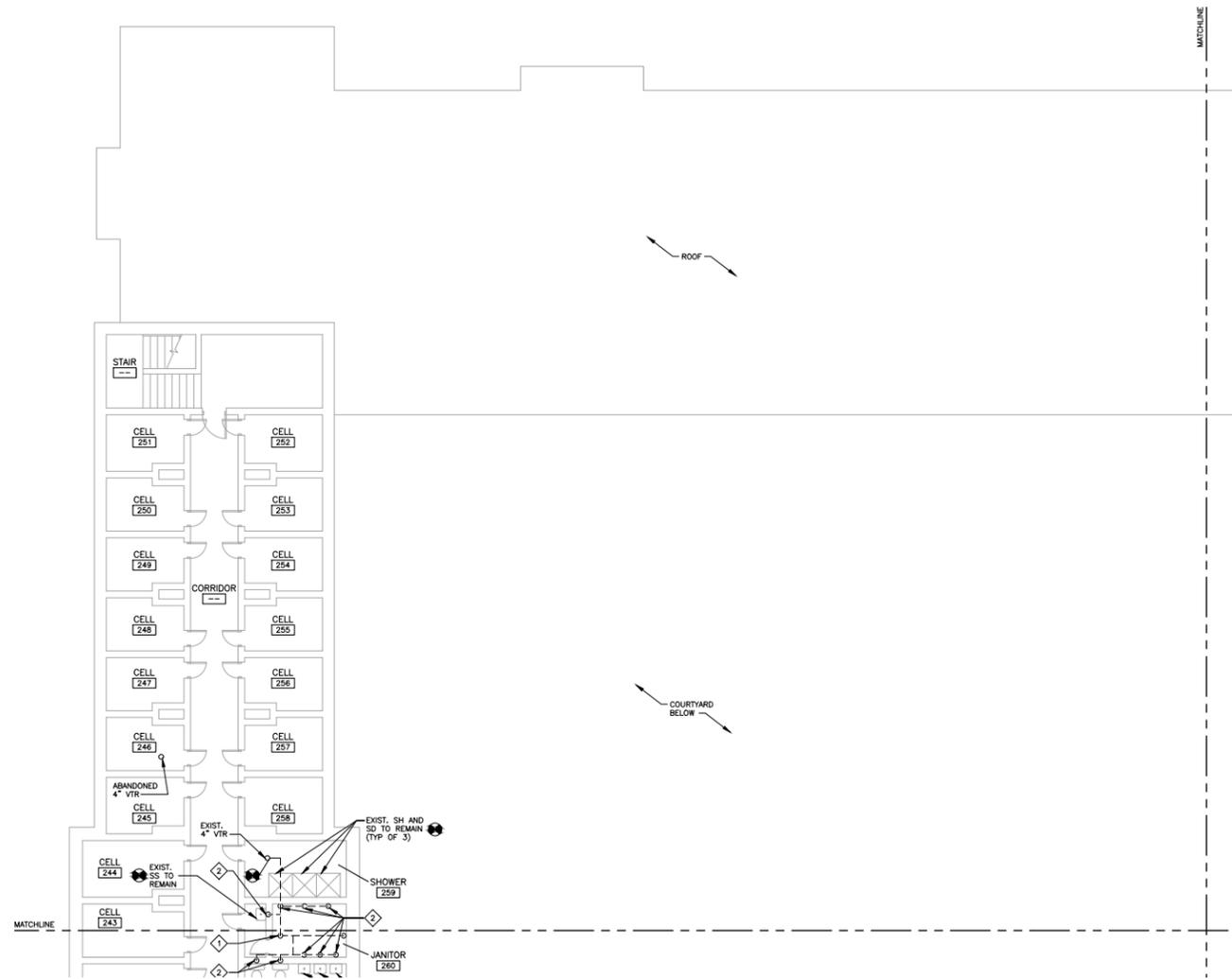
2.P07

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10/16/2023	A1 ACCENDUM NO. 1

Drawn By: JBF
 Designer: JBF
 Reviewer: GWL
 Manager: GWL

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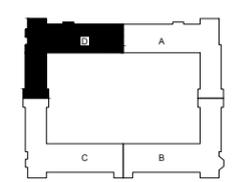


ALTERNATE 1B
SECOND FLOOR AREA D SANITARY PIPING PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

- NOTES**
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING EXISTING PLUMBING FIXTURES AS REQUIRED TO FACILITATE SANITARY PIPING REPLACEMENT. RECONNECT TO EXISTING VENT AND DOMESTIC WATER PIPING AS REQUIRED.
 - PROVIDE TEST CLEANOUTS AT CONNECTIONS TO EXISTING SANITARY LOCATIONS AS REQUIRED.

- KEY NOTES**
- 4" VENT UP FROM FLOOR BELOW.
 - 2" VENT PIPING UP FROM FLOOR BELOW.

KEY PLAN



OHIO REFORMATORY FOR WOMEN
 Marysville, Ohio
Hammon Building Sanitary Pipe Repairs

REVISIONS

NO.	DATE	DESCRIPTION
01	10/18/2023	A1 ACCENDUM NO. 1

DESIGN AND CONSTRUCTION
 Drawn By: JIS
 Designer: JIS
 Reviewer: GWL
 Manager: GWL

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2.P08

