



State of Utah

GARY R. HERBERT
Governor

GREGORY S. BELL
Lt. Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM NO. 1

Date: January 19, 2010

To: Contractors

From: Brian Bales – Project Manager

Reference: Stair and Shower Improvement – Northern Utah Community Correctional Center
Division of Adult Probation and Parole – Ogden, Utah
DFCM Project No. 09056120

Subject: **Addendum No. 1**

Pages

Addendum Cover Sheet	1 page
Revised Bid Form	2 pages
Specific DFCM Project Requirements	2 pages
<u>Architect's Addendum No. 1</u>	<u>36 pages</u>
Total	41 pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 SCHEDULE CHANGES: No Project Schedule Changes.

1.2 GENERAL ITEMS:

- 1.2.1 See attached Revised Bid Form - Unit Price No. 1 added.
- 1.2.2 See attached Specific DFCM Project Requirements.
- 1.2.3 See attached Architect's Addendum No. 1 dated January 19, 2010.



**BID FORM – REVISED
PER ADDENDUM NO. 1 DATED JANUARY 19, 2010**

NAME OF BIDDER _____ DATE _____

To the Division of Facilities Construction and Management
4110 State Office Building
Salt Lake City, Utah 84114

The undersigned, responsive to the "Notice to Contractors" and in accordance with the "Instructions to Bidders", in compliance with your invitation for bids for the **STAIR AND SHOWER IMPROVEMENT - NORTHERN UTAH COMMUNITY CORRECTIONAL CENTER – DIVISION OF ADULT PROBATION AND PAROLE – OGDEN, UTAH – DFCM PROJECT NO. 09056120** and having examined the Contract Documents and the site of the proposed Work and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of labor, hereby proposes to furnish all labor, materials and supplies as required for the Work in accordance with the Contract Documents as specified and within the time set forth and at the price stated below. This price is to cover all expenses incurred in performing the Work required under the Contract Documents of which this bid is a part:

I/We acknowledge receipt of the following Addenda: _____

BASE BID: For all work shown on the Drawings and described in the Specifications and Contract Documents, I/we agree to perform for the sum of:

_____ DOLLARS (\$ _____)
(In case of discrepancy, written amount shall govern)

ADDITIVE ALTERNATE NO. 1: For all work shown on the Drawings and described in the Specifications and Contract Documents for the Intake Restroom shower replacement, I/we agree to perform for the sum of:

_____ DOLLARS (\$ _____)
(In case of discrepancy, written amount shall govern)

ADDITIVE ALTERNATE NO. 2: For all work shown on the Drawings and described in the Specifications and Contract Documents for the Women’s Staff Restroom shower replacement, I/we agree to perform for the sum of:

_____ DOLLARS (\$ _____)
(In case of discrepancy, written amount shall govern)

ADDITIVE ALTERNATE NO. 3: For all work shown on the Drawings and described in the Specifications and Contract Documents to remove existing exhaust fans and furnish and install new fans and access door, I/we agree to perform for the sum of:

_____ DOLLARS (\$ _____)
(In case of discrepancy, written amount shall govern)

UNIT PRICE NO. 1: Epoxy Floor \$ _____/square foot

I/We guarantee that the Work will be Substantially Complete by **June 30, 2010**, should I/we be the successful bidder, and agree to pay liquidated damages in the amount of **\$150.00** per day for each day after expiration of the Contract Time as stated in Article 3 of the Contractor's Agreement.

This bid shall be good for 45 days after bid opening.

Enclosed is a 5% bid bond, as required, in the sum of _____

The undersigned Contractor's License Number for Utah is _____.

Upon receipt of notice of award of this bid, the undersigned agrees to execute the contract within ten (10) days, unless a shorter time is specified in the Contract Documents, and deliver acceptable Performance and Payment bonds in the prescribed form in the amount of 100% of the Contract Sum for faithful performance of the contract.

The Bid Bond attached, in the amount not less than five percent (5%) of the above bid sum, shall become the property of the Division of Facilities Construction and Management as liquidated damages for delay and additional expense caused thereby in the event that the contract is not executed and/or acceptable 100% Performance and Payment bonds are not delivered within the time set forth.

Type of Organization: _____ (Corporation, Partnership, Individual, etc.)

Any request and information related to Utah Preference Laws: _____

Respectfully submitted,

Name of Bidder

ADDRESS:

Authorized Signature

SPECIFIC DFCM PROJECT REQUIREMENTS

1. **Scope**

The contractor shall study the project plans and specifications prior to bid to fully understand the scope of work. Prior to bid, it is the contractor's responsibility to understand the details and scope of any subcontracted work and the costs associated with the performance of work by subcontractors.

2. **Risk**

The contractor shall identify risks for the project.

3. **General Conditions**

Prior to bidding this project, the contractor shall review the DFCM General Conditions paying special attention to the following articles.

- a. 4.1.5 Intent and hierarchy
- b. 4.2.2 Responsibility
- c. 6 Protection of persons and property

4. **Demolition**

The contractor is solely responsible to determine the means and methods for demolition. Adequate safety for personnel and property shall be provided. If required, temporary shoring, bracing and protection shall be provided. Due to the scale of the drawings, it is impossible to show the impact of every demolished surface on surrounding surfaces and structures. It is the contractor's responsibility to identify the extent and cost of repair work for surfaces that adjoin and are indicated to remain in place. Those costs shall be included in the contractor's bid. When existing ceilings are removed, the contractor shall be responsible to resupport items left unsupported by the ceiling removal. Supporting means shall be in compliance with building codes.

5. **Or Equal Products**

When the project has been designed with a specified manufacturer's product and "or equal" products are allowed, all or equal products shall be equivalent in all characteristics including proprietary operating systems so as to insure a complete functioning system. Products that do not meet these criteria will be considered to be a lower quality or lower cost product and will not be considered. It is the contractor's responsibility to insure prior to bid that all "or equal" products meet the stated criteria and specific project requirements. Requests for or equal determination shall be submitted in accordance with the project RFP and bid schedule.

SPECIFIC DFCM PROJECT REQUIREMENTS

Page No. 2

6. **ADA Accessibility**

For remodel and improvement projects in existing buildings, providing correct ADA compliance is a coordinated effort between the architect and the contractor. During the construction phase, the contractor shall coordinate closely with all trades so as to meet the requirements of the drawings and specifications. The contractor shall insure that all ADA required dimensions are maintained after the final finishes are applied. The contractor shall closely monitor the toilet stub ups and tile wall build up thickness. The contractor shall use the designed float or bust allowances to maintain the correct ADA requirements. Where the plans do not provide enough float or bust allowance, it shall be brought to the attention of the A/E before proceeding with ADA aspects of the project.

7. The final bid set of plans and specifications were provided at the pre-bid meeting. It is the contractor's responsibility to insure that the bid is based on the plans and specifications provided at the pre-bid.

8. N/A

9. The contractor is cautioned that the sidewalks have a limited load bearing capability. The contractor shall not drive heavy equipment on the sidewalks. Damage to the sidewalks or landscaping shall be repaired by the contractor at no cost to the owner.

10. N/A.

11. N/A

12. **Contract Documents**

DFCM will provide one set of printed plans and specifications. The contractor will be required to provide additional printed sets as needed for construction.

13. **N/A**

14. **N/A**

15. **Sole Source Suppliers**

When sole source suppliers are specified by DFCM it is the bidders responsibility to provide all material, labor and services required by the project documents. The bidder is responsible to insure the sole source supplier is providing all necessary products and labor for the project scope.



January 19, 2009

Project:

**State of Utah
Department of Corrections
Northern Utah Community Correction Center
Stair & Shower Improvements**

Northern Utah Community Correction Center,
Ogden, Utah

Owner:

State Of Utah - DFCM
4110 State Office Building
SALT LAKE City, UTAH 84190

DFCM Project Number: 09056120

Addendum #01

The data included herein is issued by the Architect as a clarification and addition to drawings, specifications, and contract documents relative to the above project. Except as effected by data herein, all other parts of the Contract Documents shall remain in full force and effect as issued by the Owner, **July 28, 2009**. (This Date Applies to all Project Bid Documents). It shall be the sole responsibility of the bidder to appropriately disseminate this data to all concerned prior to the assigned bid date and time. **Receipt of the addendum shall be recorded by the bidder in the appropriate space on the proposal form included in the Contract Documents.**

"Our Success Is Measured By The Level Of Our Client's Success".

I. GENERAL ITEMS

Item #01 - "Who is the manufacture of the existing shower units"

- The manufacture of the existing shower unit is Fiat.

Item #02 - "Is this project Tax Exempt"

- Taxes shall be included in the Contractor's bid. The Department of Corrections is not tax-exempt for this project.

Item #03 - "Can the Contractor work on Saturdays & Sundays"

- Yes, working weekends will be allowed. Arrangements shall be made with staff.

Item #04 - Phasing

- **Stairs** – Owner will allow one stair in each of the three housing sections to be modified at one time. Modifications must be completed and accepted by the Owner before work on the other stair in each housing section can begin.
- **Showers** – Four showers in each housing section can be remodeled at the same time. Modifications must be completed and accepted by the Owner before work on the other showers in each housing section can begin. Critical times for water to be on are between 5:30 and 7:30 am and between 5:00 and 7:00 pm. At other times, water can be shut off for two hours at a time maximum for plumbing work at the showers.

Item #05 - Patching of doors

- There will be no patching or refinishing of existing doors required once the sweeps are removed.

Item #06 - Prebid Investigation

- The Contractor is to be fully responsible for prebid investigation as to details for all aspects of the project.

Item #07 - Alternate stair and shower products

- No alternate materials will be acceptable for the stair treads and risers.
- Shower alternates will be acceptable if they completely meet the requirements of the drawing, specifications, this addendum and on-site existing conditions.

Item #08 - Notice to Contractors

- In the Notice to Contractors change the project budget from \$150,000 to \$295,000.

II. ARCHITECTURAL

A. SPECIFICATION ITEMS

Item #01 - Specification Section - 102116 SHOWER AND DRESSING COMPARTMENTS

- Add the following paragraph 2.3F

F. Horizontal two-wall grab bar 15-7/8" X 30-7/8"

1. Basis-of-Design Product: Bobrick Model B-6861
2. Mounting: Flanges with concealed fasteners
3. Material: Stainless steel, 0.05 inch thick
 - a. Finish: Smooth, No. 4, stain finish on ends and slip-resistant texture in grip area
4. Outside Diameter: 1-1/2 inches. Handicap size

18" Vertical Grab Bar

1. Basis-of-Design Product: Bobrick B-6806-18
2. Mounting: Flanges with concealed fasteners
3. Material: Stainless steel, 0.05 inch thick
 - a. Finish: Smooth, No. 4, stain finish on ends and slip-resistant texture in grip area
4. Outside Diameter: 1-1/2 inches. Handicap size

Item #02 – Not Used

Item #03 - 1/8" Decorative Broadcast Epoxy Flooring System

- For the 1/8" Decorative Broadcast Epoxy Flooring System required for patching of three floors or for complete floor recoating (See Unit Prices #1) see Architectural Supplementary Specification section at the end of the addendum.

Item #4 - Interior Wall Coating System

- For the Interior Wall Coating System see Architectural Supplementary Specification section at the end of the addendum.

Item #5 – Section 012300 3.1.C - Alternate #3

Add the following:

- All electrical work relating to the replacement of the exhaust fans is to be done by a licensed electrician.
- Access doors are to be removed and replaced only at the option and convenience of the Contractor. See specifications for new access doors if required.

Item #6 - Showers

- Standard (non ADA) showers are to be equal to Fiat Commander Shower Cabinets Model #S-86. Walls are to be stainless steel (304-4B) inside and outside

of panels. Floor is to be Terrazzo block with black and white marble chips. Units are to be shipped undrilled, less mixing valve and head. Provide 2" stainless steel integrally cast drain body with removable stainless steel strainer plate. Contractor is to be responsible to order "right" or "left" hand shower units. Cabinet size is 36" X 36" X 82". Include stainless steel 1" diameter curtain rod with brass chromium-plated brackets. Provide 10 oz. shower curtain with hooks. Include brass chromium-plated soap dish. Units must be leveled and set in a bed of mortar.

- ADA showers are to be equal to Fiat Commander Shower Cabinets Model #S-115. Walls are to be stainless steel (304-4B) inside and outside of panels. Floor is to be Terrazzo block with black and white marble chips. Units are to be shipped undrilled, less mixing valve and heads. Provide 2" stainless steel integrally cast drain body with removable stainless steel strainer plate. Contractor is to be responsible to order "right" or "left" hand shower units. Cabinet size is 39" X 39" X 82". Include stainless steel 1" diameter curtain rod with brass chromium plated brackets. Provide 10 oz. shower curtain with hooks. Include brass chromium-plated soap dish. Units are to include a retractable shower seat to meet ADA requirements as indicated on the drawings. Provide grab bars as indicated in Specifications Item #1 above in this addendum. Units must be leveled and set in a bed of mortar.

B. ARCHITECTURAL DRAWINGS ITEMS

Item #01 - Sheet AE-401 Detail B1 - Enlarged Plan of Exterior Stair

- Refer to ASD-01 & ASD-02 for modifications to the midway landing.

Item #02 - Sheet AE-501 Detail A1 - Stair Details

- Refer to ASD-03 for modifications to the bottom landing detail.

Item #03 - Not Used

Item #04 - Sheet AE-101 - Level 1 Floor Plan - Keyed Note #1

- Change note to read as follows:
"The existing access doors are 24" X 24" and are in good condition. As part of Alternate #3, the Contractor has the option of removing and replacing the access doors for convenience as part of the exhaust fan replacement at his cost."
- Add access door and Keyed Note #1 at rooms C-1 and C-6.

Item #05 - Sheet AE- 401 - Enlarged Plans - Keyed Note #4

- Change Keyed Note #4 to read as follows:
"Patching of existing epoxy floors due to the removal and installation of the showers shall be in the base bid. If required by the Owner, recoat entire floor and base. See Unit Prices Item #01 in "Unit Prices" Section of Supplementary Specification Section of this Addendum. See new spec for epoxy flooring in *1/8" Decorative Broadcast Epoxy Flooring System* found in the Supplementary Specification Section of this Addendum."

- Delete Keyed Note #4 from Enlarged Plans A4 and B4 and add a new Keyed Note #12 for each of those rooms. Keyed Note #12 is to read as follows:
"Patch as required the existing ceramic mosaic tile floor due to removal and replacement of showers. See new spec for Ceramic Mosaic Tile in Supplementary Specification Section of this Addendum."

Item #06 – Sheet AE- 401 – Enlarged Plans – A1, A2, A3 and B3

- Add new Keyed Note #13 to read as follows:
"Coat all walls and ceiling at the conclusion of the installation of the showers. See new spec for "Interior Wall Coating System" in Supplementary Specification Section of this Addendum"
- Add new Keyed Note #14 to read as follows:
Caulk joint between terrazzo shower receptor and the floor with urethane sealant. Color is to be approved the Architect.

Item #07 – Sheet GI-002 – Code Analysis

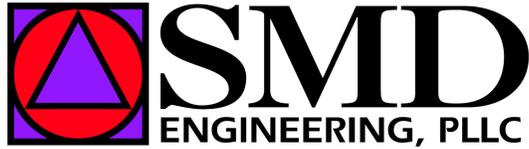
- Under "Deferred Submittals" delete item #4. Steel fabricator is not required to be on DFCM's approved fabricators list.

Item #8 Sheet AE-501 – Detail A4

- End caps are to be sized as required by the grate tread. The length is to be equal to the full width of the tread.

III. MECHANICAL

SEE ATTACHED MECHANICAL ADDENDUM



MECHANICAL ADDENDUM NO. 1

Northern Utah County Correctional Center

SMD PROJECT NO. 20090502

January 19, 2009

All contractors submitting proposals for this project shall be governed by the following addendum, changes, and explanations to the bidding documents. Bids shall be submitted in accordance with the following:

Item No.	Add, Delete or Clarify	Specification Section or Drawing No.	Reference / Description:
1	Add, Clarify	PP101	Revised Sheet note 1 and added notes 2 and 3.
2	Add, Clarify	PP102	Revised Sheet note 1 and added notes 2 and 3.
3	Add, Clarify	PP103	Revised Sheet note 1 and added notes 2 and 3.
4	Clarify	PP601	Revised SH-2.

PRODUCT SUBSTITUTIONS / PRIOR APPROVALS

Item No.	Product Type	Alternate Manufacturers
1	Plumbing Fixtures	Zurn
2	Exhaust Fans	ILG American Cool Air

The above named alternate equipment manufacturers stand approved in name only. Approval here in no way relieves the supplier from complying with all other engineering, weight spatial, and quality requirements of equipment indicated in the contract documents. Contractors using products from the above named alternate manufacturers shall provide additional engineering and are responsible for alternate equipment location, coordination, and sizing configuration.

END OF MECHANICAL ADDENDUM NO. 1

“Engineered Mechanical Solutions”

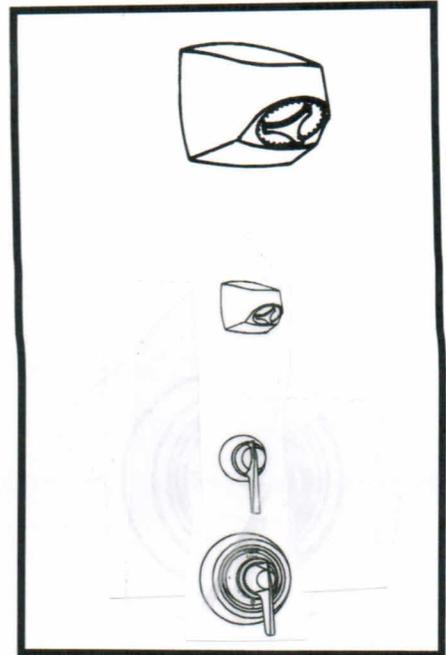
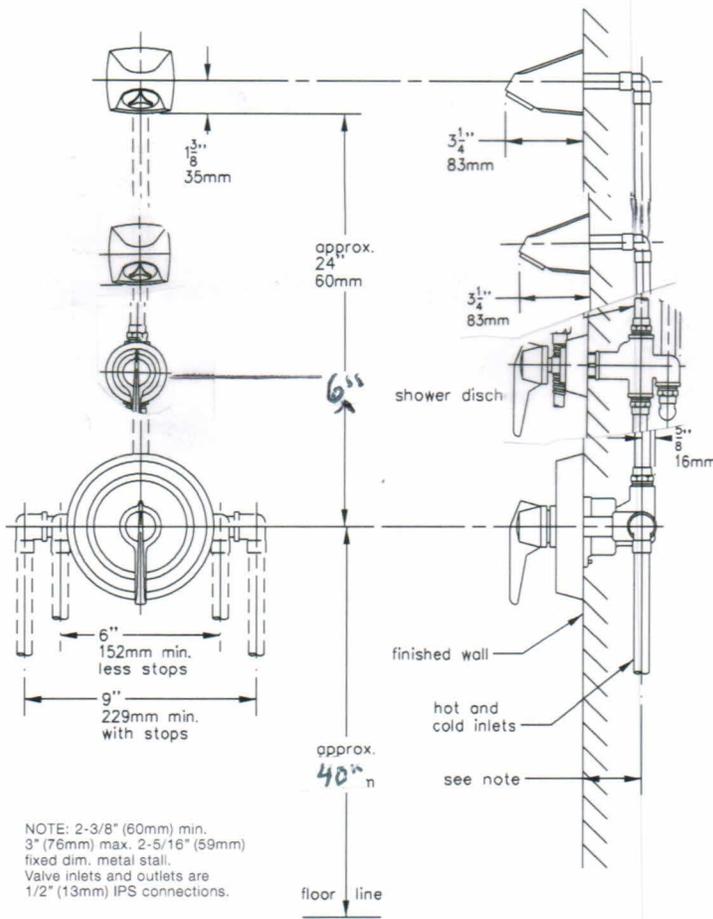
986 West Atherton Drive, Suite 200, Taylorsville, Utah 84123
 Voice (801) 268-DUCT (3828) • Fax (801) 268- FAX7 (3297) • www.smdengineering.com

1-117-150-FH-X-VP Safetymix® Shower System

Safetymix Pressure-Balancing mixing valve with lever handle and adjustable stop screw to limit handle turn. Senior shower head with semi-adjustable spray. Spray face is non-clogging and non-removable. All mounting fasteners for head are vandal resistant recessed hex socket type. Lever diverter with volume control for shower head

Modifications:

- ➔ **Suffix X:** Integral service stops—allows water shut-off at valve for service
- Suffix X-3/4:** 3/4" valve to increase flow approximately 20%
- ➔ **Suffix VP:** Vandal-resistant escutcheon screws
- Suffix BB:** Back plate and thru bolts for Fre-Flo, Senior, and Universal shower heads to accommodate extra thick wall up to 6" (Specify dimension for thicker wall)
- Suffix 15:** Space saving 15° spray angle showerhead



SYMMONS PRODUCTS MEET ANSI A112.18.1M, EPA '92 AND ALL KNOWN FLOW RATE REQUIREMENTS. Shower Heads and Hand Showers 2.5 GPM (9.5 L/min)

Job/Location

.....
.....

Engineer

.....
.....

Contractor

.....
.....

This drawing to be used for rough-in installation only. All floor to center dimensions optional. Concealed piping and fittings not furnished by manufacturer. For ADA compliance (Americans with Disabilities Act) consult ADAAG or your state regulations for proper product choice and mounting locations. For complete installation, adjustment and service information see installation instructions.

Symmons Industries, Inc. ■ 31 Brooks Drive ■ Braintree, MA 02184
(800) 796-6667, (781) 848-2250 ■ Fax (800) 961-9621, (781) 843-3849
Website: www.symmons.com ■ Email: customerservice@symmons.com

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SHEET NOTES

1. SHOWER ENCLOSURE, BASIN AND DRAIN SPECIFIED BY ARCHITECT.

2. CONNECT SHOWER VALVE TO EXISTING HOT AND COLD PIPE DROPS IN WALL. REPLACE PIPE DROPS AS REQUIRED DUE TO CORROSION.

3. CONNECT NEW BASIN DRAINS TO EXISTING BUILDING WASTE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO PROVIDE COMPLETE AND FUNCTIONAL SYSTEM.



TITLE:		REVISE NOTE 1, ADD NOTE 2 & 3		REFERENCE:
				ADD-1
PROJECT:			REFERENCE:	
NUCCC IMPROVEMENT			1/PP101	
BY:	JOB #:	SCALE:	DATE:	
SMD	20090502	NONE	01/19/2010	
				SHEET:
				PA-1

SHEET NOTES

1. SHOWER ENCLOSURE, BASIN AND DRAIN SPECIFIED BY ARCHITECT.

2. CONNECT SHOWER VALVE TO EXISTING HOT AND COLD PIPE DROPS IN WALL. REPLACE PIPE DROPS AS REQUIRED DUE TO CORROSION.

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TITLE:
REVISE NOTE 1, ADD NOTE 2 & 3

REFERENCE:
ADD-1

PROJECT:
NUCCC IMPROVEMENT

REFERENCE:
1/PP102

SHEET:
PA-2

BY: SMD JOB #: 20090502 SCALE: NONE

DATE:
01/19/2010

SHEET NOTES

1. SHOWER ENCLOSURE, BASIN AND DRAIN SPECIFIED BY ARCHITECT.

2. CONNECT SHOWER VALVE TO EXISTING HOT AND COLD PIPE DROPS IN WALL. REPLACE PIPE DROPS AS REQUIRED DUE TO CORROSION.

3. CONNECT NEW BASIN DRAINS TO EXISTING BUILDING WASTE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO PROVIDE COMPLETE AND FUNCTIONAL SYSTEM.



TITLE: REVISE NOTE 1, ADD NOTE 2 & 3

REFERENCE:
ADD-1

PROJECT: NUCCC IMPROVEMENT

REFERENCE:
1/PP103

SHEET:
PA-3

BY: SMD JOB #: 20090502 SCALE: NONE

DATE: 01/19/2010

PLUMBING FIXTURE SCHEDULE

FIXTURE

MARK	FIXTURE	ROUGH IN SIZE		MANUFACTURER MODEL	REMARKS
		HW IN	CW IN		
SH-1	PRESSURE BALANCED SHOWER VALVE AND TAMPER-PROOF SHOWER HEAD	1/2	1/2	SYMMONS SAFETYMIX SHOWER SYSTEM I-100-151-X-VP	PRESSURE BALANCED SHOWER VALVE W/INTEGRAL SERVICE STOPS, VANDAL RESISTANT ESCUTCHEON SCREWS, AND TAMPER-PROOF SHOWER HEAD, NOTE 1
SH-2	ADA COMPLIANT PRESSURE BALANCED SHOWER VALVE W/ HIGH AND LOW LEVER VALVES AND HIGH AND LOW SHOWER HEADS	1/2	1/2	SYMMONS SAFETYMIX SHOWER SYSTEM 1-117-150-FH-X-VP	PRESSURE BALANCED SHOWER VALVE W/INTEGRAL SERVICE STOPS, VACUUM BREAKER, VANDAL RESISTANT ESCUTCHEON SCREWS, HIGH AND LOW LEVER VALVES, AND HIGH AND LOW SHOWER HEADS, NOTE 1.

NOTE 1: REPLACE SHOWER BASIN, CONNECT SHOWER BASIN DRAIN TO EXISTING WASTE. CONNECT SHOWER VALVE TO EXISTING HOT AND COLD WATER.

 SMD ENGINEERING, PLLC "Engineered Mechanical Solutions" 986 WEST ATHERTON DRIVE, SUITE 200 TAYLORSVILLE, UTAH 84123 (801) 268-3828, FAX (801) 268-3297 WWW.SMDENGINEERING.COM		TITLE: REVISE SH-2		REFERENCE: ADD-1	
PROJECT: NUCCC IMPROVEMENT		REFERENCE: 1/PP601		SHEET: PA-4	
BY: SMD	JOB #: 20090502	SCALE: NONE	DATE: 01/19/2010		

IV. ARCHITECTURAL SUPPLEMENTARY SPECIFICATIONS

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 2. Division 01 Section "Quality Requirements" for general testing and inspecting requirements.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

A. Unit Price 1: Completely recoat epoxy flooring of Shower/Toilet rooms (showers not included).

1. Description: Unsatisfactory condition of finished floor materials in Shower/Toilet rooms may occur due to the removal and replacement of the showers.
2. Unit of Measurement: Square Foot of floor, based on measurement of size measured.

END OF SECTION 012200

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate #1 – Replace shower in Intake Restroom as shown on drawings. Replacement of the shower in the Men’s staff restroom will be done under the Base Bid.
- B. Alternate #2 – Replace shower in Women’s staff restroom as shown on drawings. Replacement of the shower in the Men’s staff restroom will be done under the Base Bid.
- C. Alternate #3 – Remove existing exhaust fans and furnish and install new fans as shown on the mechanical plans. New access doors are to be part of this alternate. Access doors are to be removed and replaced only at the option and convenience of the Contractor. See specifications for new access doors if required. Electrically connect the new fans into the same circuit to which the removed fans were connected . All electrical work relating to the replacement of the exhaust fans is to be done by a licensed electrician.

END OF SECTION 012300

SECTION 090300 - CERAMIC TILE (Patching at Staff Showers)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Ceramic mosaic tile patching.

1.3 DEFINITIONS

- A. Module Size: Actual tile size (minor facial dimension as measured per ASTM C 499) plus joint width indicated.
- B. Facial Dimension: Actual tile size (minor facial dimension as measured per ASTM C 499).
- C. Facial Dimension: Nominal tile size as defined in ANSI A137.1.

1.4 PERFORMANCE REQUIREMENTS

- A. Static Coefficient of Friction: For tile installed on walkway surfaces, provide products with the following values as determined by testing identical products per ASTM C 1028:
 - 1. Level Surfaces: Minimum 0.6.
 - 2. Step Treads: Minimum 0.6.
 - 3. Ramp Surfaces: Minimum 0.8.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of tile and grout indicated. Include Samples of accessories involving color selection.

1.6 QUALITY ASSURANCE

- A. Source Limitations for Tile: Obtain all tiles of same type and color or finish from one source or producer.
 - 1. Obtain tile from same production run and of consistent quality in appearance and physical properties for each contiguous area.

- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement in ANSI A137.1 for labeling sealed tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Store liquid latexes in unopened containers and protected from freezing.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
 - 1. Products: Subject to compliance with requirements, provide one of the products specified.
 - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.
 - 1. Provide tile complying with Standard grade requirements, unless otherwise indicated.
 - 2. For facial dimensions of tile, comply with requirements relating to tile sizes specified in Part 1 "Definitions" Article.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI standards referenced in "Setting and Grouting Materials" Article.
- C. Colors, Textures, and Patterns: Where manufacturer's standard products are indicated for tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, provide specific products or materials complying with the following requirements:
 - 1. As selected by Architect from manufacturer's full range.

- D. Factory Blending: For tile exhibiting color variations within ranges selected during Sample submittals, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
- E. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer, unless otherwise indicated.
 - 1. Where tile is indicated for installation in swimming pools on exteriors or in wet areas, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.

2.3 TILE PRODUCTS

- A. Manufacturers:
 - 1. American Olean; Div. of Dal-Tile International Corp.
 - 2. Daltile; Div. of Dal-Tile International Inc.
 - 3. Florida Tile Industries, Inc.
 - 4. Interceramic.
 - 5. United States Ceramic Tile Company.
- B. Unglazed Ceramic Mosaic Tile: Factory-mounted flat tile as follows:
 - 1. Composition: Porcelain.
 - 2. Surface: Smooth, without abrasive admixture.
 - 3. Module Size: 2 by 2 inch.
 - 4. Nominal Thickness: 1/4 inch.
 - 5. Face: Plain with cushion edges.
 - 6. Match existing tiles.

2.4 SETTING AND GROUTING MATERIALS

- A. Manufacturers:
 - 1. LATICRETE International Inc.
 - 2. MAPEI Corporation.
- B. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.1A and as specified below:
 - 1. Reinforcing Wire Fabric: Galvanized, welded wire fabric, 2 by 2 inches by 0.062-inch diameter; comply with ASTM A 185 and ASTM A 82 except for minimum wire size.
 - 2. Latex Additive: Manufacturer's standard water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed.
- C. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4, consisting of the following:
 - 1. Prepackaged dry-mortar mix combined with acrylic resin or styrene-butadiene-rubber liquid-latex additive.
 - a. For wall applications, provide nonsagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.

- D. Standard Sanded Cement Grout: ANSI A118.6, color as indicated.
- E. Grout for Pregrouted Tile Sheets: Same silicone rubber used in factory to pregrout tile sheets.

2.5 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
- B. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- C. Grout Sealer: Manufacturer's standard silicone product for sealing grout joints that does not change color or appearance of grout.

2.6 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
 - 1. Verify that substrates for setting tile are firm; dry; clean; free of oil, waxy films, and curing compounds; and within flatness tolerances required by referenced ANSI A108 Series of tile installation standards for installations indicated.
 - 2. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed before installing tile.
 - 3. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.

- B. Provide concrete substrates for tile floors installed with thin-set mortar that comply with flatness tolerances specified in referenced ANSI A108 Series of tile installation standards.
 - 1. Fill cracks, holes, and depressions with trowelable leveling and patching compound according to tile-setting material manufacturer's written instructions. Use product specifically recommended by tile-setting material manufacturer.
 - 2. Remove protrusions, bumps, and ridges by sanding or grinding.
- C. Blending: For tile exhibiting color variations within ranges selected during Sample submittals, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION, GENERAL

- A. ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.
- B. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with TCA installation methods indicated in ceramic tile installation schedules.
- C. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- D. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- E. Jointing Pattern: Lay tile in grid pattern, unless otherwise indicated. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
 - 1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
- F. Lay out tile wainscots to next full tile beyond dimensions indicated.
- G. Expansion Joints: Locate expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. Locate joints in tile surfaces directly above joints in concrete substrates.
 - 2. Prepare joints and apply sealants to comply with requirements in Division 7 Section "Joint Sealants."
- H. Grout tile to comply with requirements of the following tile installation standards:
 - 1. For ceramic tile grouts (sand-portland cement; dry-set, commercial portland cement; and latex-portland cement grouts), comply with ANSI A108.10.

3.4 FLOOR TILE INSTALLATION

- A. General: Install tile to comply with requirements in the Floor Tile Installation Schedule, including those referencing TCA installation methods and ANSI A108 Series of tile installation standards.
 - 1. For installations indicated below, follow procedures in ANSI A108 Series tile installation standards for providing 95 percent mortar coverage.
 - a. Exterior tile floors.
 - b. Tile floors in wet areas.
 - c. Tile swimming pool decks.
 - d. Tile floors in laundries.
 - e. Tile floors composed of tiles 8 by 8 inches or larger.
 - f. Tile floors composed of rib-backed tiles.
- B. Joint Widths: Install tile on floors with the following joint widths:
 - 1. Ceramic Mosaic Tile: 1/16 inch.
- C. Stone Thresholds: Install stone thresholds at locations indicated; set in same type of setting bed as abutting field tile, unless otherwise indicated.
 - 1. Set thresholds in latex-portland cement mortar for locations where mortar bed would otherwise be exposed above adjacent nontile floor finish.
- D. Grout Sealer: Apply grout sealer to grout joints according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer that has gotten on tile faces by wiping with soft cloth.

3.5 CLEANING AND PROTECTING

- A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions, but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.
 - 2. Remove temporary protective coating by method recommended by coating manufacturer that is acceptable to tile and grout manufacturer. Trap and remove coating to prevent it from clogging drains.
- B. When recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear.
- C. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- D. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION 09310

SECTION 096723 - 1/8" DECORATIVE BROADCAST EPOXY FLOORING SYSTEM

Part 1 - General

1.01 Work Included

- A. Furnish necessary material, labor, and equipment required to prepare designated areas and install a 1/8" Decorative Broadcast Epoxy Flooring System including coved base.

1.02 Related Work

- A. Drawings and general provisions of contract including General and Special Conditions and Division I.
- B. See "Unit Prices" Item #1 in Section 012200 UNIT PRICES

1.03 Quality Assurance

- A. **Manufacturer's Qualifications**
Obtain 1/8" Decorative Broadcast Epoxy Flooring System materials from a single manufacturer with a minimum of five years verifiable experience providing materials of the type specified in this section.
- B. **Contractor's Qualifications**
Installation must be performed by a manufacturer certified contractor with skilled mechanics having not less than three (3) years satisfactory experience in the installation of the type of system as specified in this section, and must be certified in writing by the manufacturer of the 1/8" Decorative Broadcast Epoxy Flooring System.

1.04 Warranty

- A. The contractor and the manufacturer shall furnish a standard guarantee of the 1/8" Decorative Broadcast Epoxy Flooring System for a period of one year after installation. The labor and material guarantee shall include loss of bond and wear-through to the concrete substrate from normal use.
- B. Not included in the warranty are damage due to structural design deficiencies including but not limited to slab cracking from lateral, vertical or rotational movement, and gouging or other damage due to fork lifts, other equipment, delamination caused by vapor transmission, Acts of God, or other elements beyond the scope of protection of this system nor causes not related to the system materials.
- C. In case of a warranty claim, the owner will notify the manufacturer and contractor in writing within 30 days of the first appearance of problems covered under this warranty. The owner will provide free and unencumbered access to the area during normal working hours for warranty rework. Property protection is also the owner's responsibility. Remedy is limited to direct repair of the 1/8" Decorative Broadcast Epoxy Flooring System.

1.05 Submittal

- A. **System Data**
Submit manufacturer's specifications on cured system and individual components of the 1/8" Decorative Broadcast Epoxy Flooring System, including physical properties and performance properties and tests described in part 2.01 B and submit Material Safety

Data Sheets. Each individual component of the system will be evaluated on the basis of these standards. For any tests not listed in the manufacturer's standard nationally published data, the manufacturer must supply the missing data accompanied by the independent testing laboratory's test results which prove compliance in accordance with the referenced standard(s). Furnish three sets of this information. Manufacturer's standard color chart shall also be submitted and must afford the owner color selection from at least all standard colors and computerized custom color matching shall be available upon request. Furnish three sets of this information.

- B. The contractor shall submit a 6" x 6" cured system sample which the contractor has made for verification purposes and finish texture approval.
- C. Contractor Experience
The contractor shall furnish a list of projects using either specified material or equivalent that they have installed during the last five years. Information shall include: project name, square footage, owner contact name with owner's address and phone number. Also, the contractor shall furnish résumés detailing the experience of key project personnel including supervisors and mechanics.
- D. It is the intention of this Section to provide the products as named. This product matches the existing system and will come close to matching if a patch is required.
- E. The contractor shall submit a copy of the manufacturer's packing slip, tagged for this specific job, along with calculations, signed by an officer of the primary material supplier demonstrating that the quantity of material furnished for the project will achieve the specified coverage and mil thickness.

1.06 Material Delivery, Handling and Storage

- A. Primary system materials shall be delivered in the manufacturer's undamaged, unopened containers. Each container shall be clearly marked with the following:
 - Product name(s) and/or Number(s)
 - Manufacturer's name
 - Component designation (A, B, etc.)
 - Product Mix Ratio
 - Health and Safety Information
 - CHEMTREC Emergency Response Information
- B. Provide equipment and personnel to handle the materials by methods which prevent damage.
- C. The contractor shall promptly inspect direct jobsite material deliveries to assure that quantities are correct, comply with requirements and are not damaged.
- D. The contractor shall be responsible for materials furnished by him, and he shall replace, at his own expense, such materials that are found to be defective in manufacture or that have become damaged in transit, handling or storage.
- E. Store material(s) in accordance with manufacturer's instructions, with seals and labels intact and legible. Maintain temperatures within the required range. Do not use materials which exceed the manufacturer's maximum recommended shelf life.

1.07 Job Conditions

- A. The contractor shall visit the jobsite prior to the installation of the 1/8" Decorative Broadcast Epoxy Flooring System to evaluate substrate condition, including substrate

moisture transmission, quantity and severity of cracking, and the extent of repairs needed. Substrate imperfections should be repaired only after mechanical preparation of the substrate. Surface preparation reveals most imperfections requiring repair. Concrete substrates shall be tested to verify that the moisture vapor transmission of the substrate does not exceed the 1/8" Decorative Broadcast Epoxy Flooring System manufacturers' recommendations. Cost associated with repair, leveling and remediation of the substrate are the responsibility of the provider of the substrate.

- B. The contractor should exercise care during surface preparation and system installation to protect surrounding substrates and surfaces, as well as in-place equipment. The contractor shall prepare the substrate to remove laitance and open the surface. This shall be achieved by light brush grit blasting. Surface profile achieved shall be similar to medium grit sandpaper and free from bond-inhibiting contaminants.
- C. Each drain in the installation area must be working and raised or lowered to the actual finished elevation of the 1/8" Decorative Broadcast Epoxy Flooring System.
- D. System must be protected by the General Contractor or, as a separate bid item, by the installing contractor until it is inspected and turned over to the owner.
- E. The minimum slab temperature must be conditioned to 60 degrees F before commencing installation, during installation, and for at least 72 hours after installation is complete. The substrate temperature must be at least 5 degrees F above the dew point during installation.
- F. Maintain lighting at a minimum uniform level of 50 or more foot candles in areas where the 1/8" Decorative Broadcast Epoxy Flooring System is being installed. It is the recommendation of the manufacturer that the permanent lighting be in place and working during the installation.
- G. Leaks from pipes and other sources must be corrected prior to the installation of the 1/8" Decorative Broadcast Epoxy Flooring System.

Part 2 - Products

2.01 Materials

A. System Overview

The 1/8" Decorative Broadcast Epoxy Flooring System consists of 3579 Standard Primer / Binder as the primer, 3561 Epoxy Resin Glaze as the binder resin, 5900F ESTES Colored Quartz Aggregate, and 3744 High Performance CR Epoxy as the grout.

Select seal coat: Match existing

B. Typical Physical Properties

Color	Pre-Blended Standard Colors Custom Color Blends Available
Hardness @ 24 hours Shore D ASTM D 2240	70/65
Compressive strength ASTM C 579	12,000 psi

Tensile Strength	
ASTM C 307	2,500 psi
ASTM D 638	6,000 psi
Abrasion Resistance	90-100 milligrams lost
ASTM D 4060, CS-17 Wheel, 1,000 cycles	
Flexural Strength	4,500 psi
ASTM C 580	10,000 psi
ASTM D 790	
Adhesion	350 psi
ACI 503R	100% concrete failure
Flammability	Self-extinguishing over concrete
Resistance Elevated Temperatures	No slip or flow at required temperature of 158°F
MIL-D-3134J	

ASTM C = Mortar system
ASTM D = Resin only

Part 3 - Execution

3.01 Surface Preparation

- A. For thorough instructions regarding preparation of concrete substrates consult "Instruction for Concrete Surface Preparation" (Form G-1).

3.02 Installation

- A. General
Apply each component of the 1/8" Decorative Broadcast Epoxy Flooring System in compliance with manufacturer's written installation instructions and strictly adhere to mixing and installation methods, recoat windows, cure times and environmental restrictions. The 1/8" Decorative Broadcast Epoxy Flooring System is to be installed directly over non-moving control joints and cracks which have been treated with EPO-FLEX epoxy, and the 1/8" Decorative Broadcast Epoxy Flooring System will terminate at the edge of isolation and expansion joints as designated by the Architect, Engineer or Design Professional. Integral cove base shall be included.
- B. Cracks
After preparation, evaluation of quantity and severity of cracks in concrete will determine the needed repairs. Original bid assumes repair and treatment of ____ linear feet of cracks and control joints. Additional treatment is considered excessive and must be bid on a per linear foot basis. For information pertaining to the treatment of cracks in concrete substrates, consult Manufacturer's publication, Concrete 102.
- C. Control Joints
Original bid assumes repair and treatment of ____ linear feet of cracks and control joints. Additional treatment is considered excessive and must be bid on a per linear foot basis. For information pertaining to the treatment of control joints in concrete substrates, consult Manufacturer's publication, Concrete 103.
- D. Isolation/Expansion and Other Joints Subject to Movement
All expansion joints must be honored through the flooring system. For information pertaining to the above, consult Manufacturer's publication, Concrete 105.

- E. System Primer
3579 Standard Primer / Binder
- F. First Broadcast
3561 Epoxy Resin Glaze
5900F ESTES Colored Quartz Aggregate
- G. Second Broadcast
3561 Epoxy Resin Glaze
5900F ESTES Colored Quartz Aggregate
- H. Grout Coat
3744 High Performance CR Epoxy
- I. Seal Coat
Match Existing

3.03 Curing, Cleaning and Protection

- A. Cure the 1/8" Decorative Broadcast Epoxy Flooring System materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of the installation and prior to completion of the curing process.
- B. Protect the 1/8" Decorative Broadcast Epoxy Flooring System from damage and wear during other phases of the construction operation, using temporary coverings as recommended by the manufacturer, if required. Remove temporary covering just prior to final inspection.
- C. Clean the 1/8" Decorative Broadcast Epoxy Flooring System just prior to final inspection, using materials and procedures suitable to the system manufacturer.
- D. Some cleaners will affect the color, gloss or texture of your polymer floor surfaces. To determine how your cleaner will perform, first test each cleaner, in a small area, utilizing your cleaning technique. This precaution will demonstrate the effect of your cleaner and technique. If no deleterious effects are observed, continue with the procedure. If deleterious effects do occur, modify the cleaning material and/or procedure. For recommendations regarding types of cleaners, contact the 1/8" Decorative Broadcast Epoxy Flooring System manufacturer.

END OF SECTION 096723

SECTION 099600 - INTERIOR WALL COATING SYSTEM

Part 1 - General

1.01 Work Included

- A. Furnish all necessary material, labor, and equipment required to prepare designated areas and install an Interior Wall Coating System.

1.02 Related Work

- A. All drawings and general provisions of contract including General and Special Conditions and Division I.

1.03 Quality Assurance

- A. **Manufacturer's Qualifications**
Obtain Interior Wall Coating System materials from a single manufacturer with a minimum of five years verifiable field installation experience providing antimicrobial system materials of the type specified in this section.
- B. **Contractor's Qualifications**
Installation must be performed by a manufacturer approved contractor with skilled mechanics having not less than five years satisfactory experience in the installation of the type of system as specified in this section, and must be approved in writing by the manufacturer of the Interior Wall Coating System.

1.04 Warranty

- A. The contractor and the manufacturer shall furnish a standard guarantee of the Interior Wall Coating System for a period of one year after installation. This labor and material guarantee shall include loss of bond and wear-through to the substrate through normal wear and tear.
- B. Not included in the warranty are damage due to structural design deficiencies including but not limited to slab cracking from lateral, vertical or rotational movement, and gouging or other damage due to fork lifts, other equipment, delamination caused by sub-surface hydrostatic pressure, Acts of God, or other elements beyond the scope of protection of this system nor causes not related to the system materials.
- C. In case of a warranty claim, the owner will notify the manufacturer and contractor in writing within 30 days of the first appearance of problems covered under this warranty, and will provide free access to the area during normal working hours. Property protection is also the owner's responsibility. Remedy is limited to direct repair of the Wall Surfacing System.

1.05 Submittal

- A. **Product Data**
Submit manufacturer's specifications on cured system and individual components of the Interior Wall Coating System, including physical properties and performance properties and all tests described in part 2.01 B in this section and submit all Material Safety Data Sheets. Each individual component of the system will be evaluated on the basis of these standards. For any of these tests not listed in the manufacturer's standard nationally published data, the manufacturer must supply the missing data from an independent test laboratory tested according to the referenced standard. Furnish three sets of this information. Manufacturer's standard color chart shall also be submitted and must afford

the owner color selection from at least all standard colors. Furnish three sets of this information.

- B. The contractor shall submit a 6" x 6" system sample for verification purposes and finish texture approval.
- C. Contractor Experience
The contractor shall furnish a list of ten projects using either specified material or another material pre-approved for this project that they have installed during the last five years. Information shall include: project name, square footage, contact name with owner address and phone number. Also, the contractor shall furnish resumes detailing the experience of key project personnel including supervisors and technicians.

1.06 Material Delivery, Handling and Storage

- A. Primary system materials shall be delivered in the manufacturer's undamaged, unopened containers. Each container shall be clearly marked with the following:
 - Product name(s) and/or Number(s)
 - Manufacturer's name
 - Component designation (A, B, etc.)
 - Product Mix Ratio
 - Health and Safety Information
 - CHEMTREC Emergency Response Information
- B. Provide equipment and personnel to handle the materials by methods which prevent damage.
- C. The contractor shall promptly inspect direct jobsite material deliveries to assure that quantities are correct, comply with requirements and are not damaged.
- D. The contractor shall be responsible for materials furnished by him, and he shall replace, at his own expense, such materials that are found to be defective in manufacture or that have become damaged in transit, handling or storage.
- E. Store material(s) in accordance with manufacturer's instructions, with seals and labels intact and legible. Maintain temperatures within the required range. Do not use materials which exceed the manufacturer's maximum recommended shelf life.

1.07 Job Conditions

- A. The contractor shall visit the jobsite prior to beginning the installation of the Interior Wall Coating System to evaluate substrate condition, including substrate moisture content, and the extent of repairs required, if any. Concrete substrates shall be tested to verify that the moisture content of the substrate does not exceed Interior Wall Coating System manufacturers' recommendations. Cost of repair and remediation of the substrate cannot be predicted prior to inspection and testing, and therefore is not encompassed within the installation estimates.
- B. The contractor should exercise care during surface preparation and system installation to protect surrounding substrates and surfaces, as well as in-place equipment. The contractor shall use his discretion as to the physical means used for preparation and protection. Any costs incurred for resultant damage from negligence or inadequate protection shall be the sole responsibility of the contractor.
- C. Job area to be free of and protected from the activities of other trades during installation and for a period of time recommended by the manufacturer upon completion of the job.

- D. The minimum substrate temperature must be conditioned to 60° F before commencing installation, during installation, and for at least 72 hours after installation is complete.
- E. Use of respirators and/or adequate ventilation must be provided.
- F. Maintain lighting at a minimum uniform level of 50 or more foot candles in all areas where the Interior Wall Coating System is being installed. It is the recommendation of the manufacturer that the permanent lighting be in place and working during the installation.
- G. All leaks from pipes and other sources must be corrected prior to the installation of the Interior Wall Coating System.

Part 2 - Products

2.01 Materials

A. System Overview

The Interior Wall Coating System shall be SANIGLAZE High Build Wall System or equal, consisting of two coats of 3479 Water-Based Epoxy Wall Coating and 4408 WB Polyurethane as finish coat.

B. Typical Physical Properties @ 73°F (unless otherwise noted)

Colors	White
Hardness, Shore D ASTM D 2240	65/60
Tensile Strength ASTM D 412	6,000 psi
Adhesion ACI 503R	350 psi 100% Substrate Failure
Flammability	Self Extinguishing on Substrate
Thermal Cycling ASTM C 884 (24 hours, 6°F to 77°F)	No cracking
Permeability MIL-I-16923 @ 95% humidity	≤ 0.01 gm/ft ² /24 hrs /inch thickness

Part 3 - Execution

3.01 Surface Preparation

- A. Proper surface preparation prior to installation of materials is essential for interior wall coating systems. Read the following recommended methods of surface preparation carefully. Consult manufacturer for answers to questions prior to installation.
 - 1. Closely examine all substrates for undulation, cleanliness, holes, cracks and soundness.
 - 2. Surface contaminants must be removed by mechanical abrasion or other approved methods to ensure proper adhesion of the system.
 - 3. Substrate finish will affect the final appearance of the wall coating.

Drywall: Must be finish to a minimum of Level #4 Finish utilizing materials compatible with the wall board product and the resinous wall coating system.

4. Surface and air temperature should be a minimum of 50° F / 15° C
5. Air movement must be present in application area to prevent surface condensation during installation.

3.02 Installation

- A. General
Apply each component of the Interior Wall Coating System in compliance with manufacturer's written installation instructions and strictly adhere to mixing and installation methods, recoat windows, cure times and environmental restrictions.

If necessary, install Pre-formed Vinyl Corner Moldings with fast setting, high strength adhesive.
- B. Optional Surface leveling materials depending upon substrate
Bughole Filler, Block Filler, etc as approved by Manufacturer
- C. Primer
3479 Water-Based Epoxy Wall Coating
- D. Base Coat
3479 Water-Based Epoxy Wall Coating (two coats)
- E. Optional Finish Coat
4408 WB Polyurethane

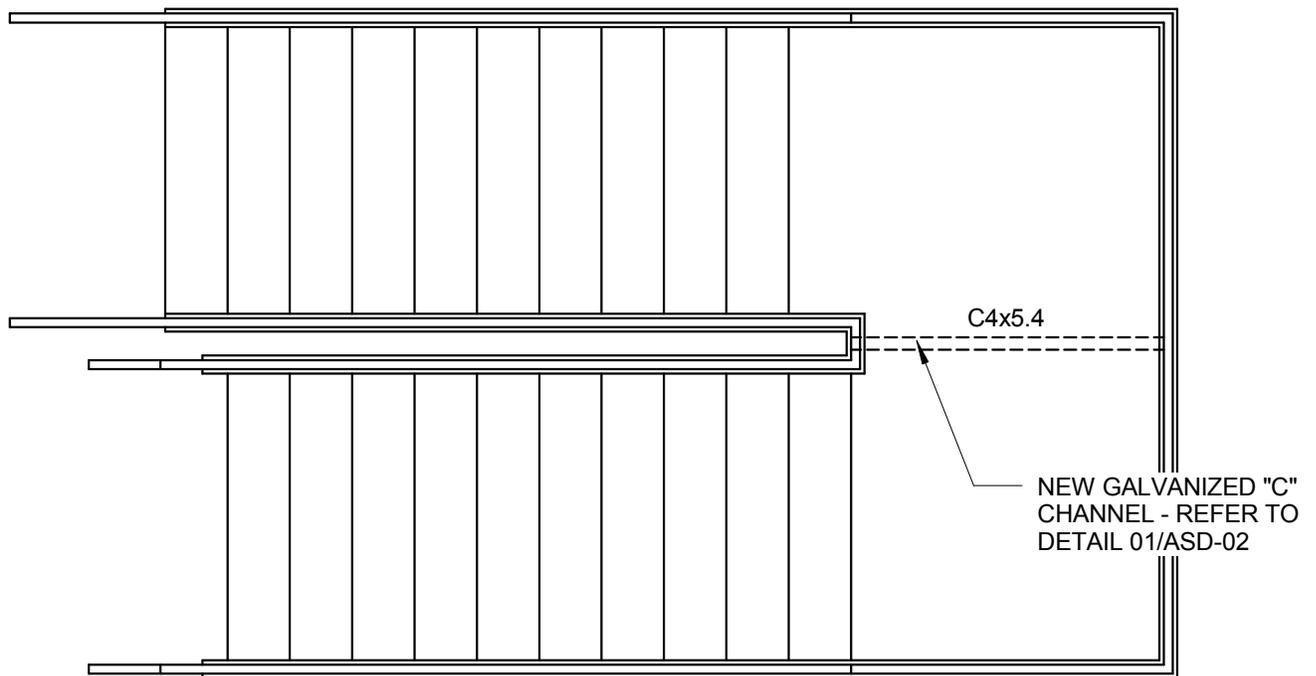
3.03 Curing, Cleaning and Protection

- A. Cure all Interior Wall Coating System materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of the installation and prior to completion of the curing process.
- B. Protect the Interior Wall Coating System from damage and wear during other phases of the construction operation, using temporary coverings as recommended by the manufacturer, if required. Remove temporary covering just prior to final inspection.
- C. Clean the Interior Wall Coating System just prior to final inspection, using materials and procedures suitable to the system manufacturer.
- D. Some cleaners will affect the color or texture of your polymer wall surfaces. To determine how your cleaner will perform, first test each cleaner, in a small area, utilizing your cleaning technique. This precaution will demonstrate the effect of your cleaner and technique. If no deleterious effects are observed, continue with the procedure. If deleterious effects do occur, modify the cleaning material and/or procedure.

END OF SECTION 099600

V. ARCHITECTURAL SUPPLEMENTARY DRAWINGS

REFER TO DETAIL B1/AE-401
FOR ALL OTHER DETAILS



01

01/ASD-01 ENLARGED STAIR PLAN

3/8" = 1'-0"



**SCOTT P. EVANS - ARCHITECT
& ASSOCIATES P.C.**

108 WEST CENTER STREET
BOUNTIFUL, UTAH 84010
(801) 298-1368 FAX (801) 298-2192

**NORTHERN UTAH COMMUNITY CORRECTION CENTER
STAIR & SHOWER IMPROVEMENTS**

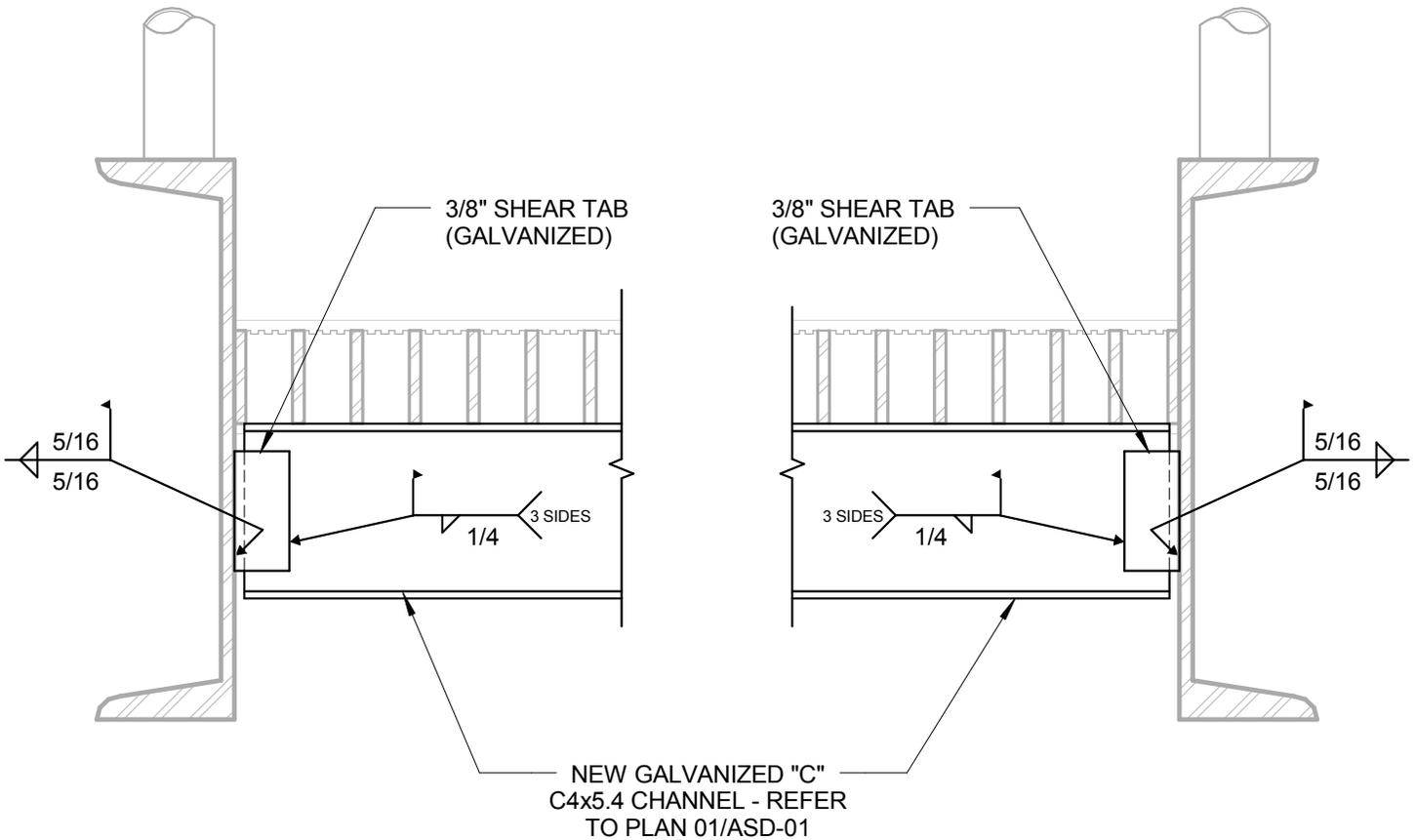
SUPPLEMENTARY DRAWING

Project Number

01/14/10

ASD-01

REFER TO DETAIL A1/AE-501
FOR ALL OTHER DETAILS



01

ASD-02 "C" CHANNEL DETAIL

3" = 1'-0"



**SCOTT P. EVANS - ARCHITECT
& ASSOCIATES P.C.**

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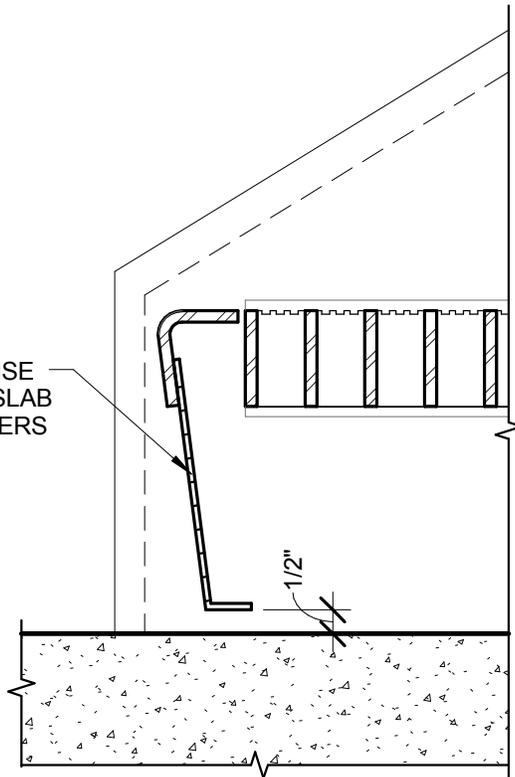
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ASD-02

HOLD BOTTOM LANDING RAISE
UP 1/2" OFF OF CONCRETE SLAB
AS SHOWN - PROVIDE SPACERS
AS REQUIRED



01

BOTTOM LANDING STAIR DETAIL

3" = 1'-0"



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ASD-03