

1. Please provide the descriptions of the type products and/or materials, such as manufacturers, model numbers, colors, and etc. to be used on this renovation which meet UDC Standard, as follow:
- A. Toilet partitions / urinal screens
 - B. Toilet accessories
 - C. Floor finishes
 - D. Wall/base finishes and specified heights
 - E. Paint
 - F. Ceiling finish
 - G. Plumbing fixtures (the preferred fixture models and model #'s for the stalls, urinals, and toilets, in respect to ADA compliance)
 - H. Light fixtures (the preferred LED lighting color and fixture / recess or surface mounting)

Response: See the following table and the attached specification sections

Item	Basis of Design (BOD) mfg(s)	BOD Model # /Type /Description
Water Closet	American Standard, AFWall EverClean Toilet 3351.101.020	Hard Wired Sensor Operated: Sloan ECOS® SENSOR FLUSHOMETER ECOS 111-1.28-HW 1.28 GPF Elongated Open Front Seat
Urinal	American Standard Vitreous China Urinal Washbrook FloWise 6590.001EC.020	Hardwired Sensor Operated: Sloan ECOS® SENSOR FLUSHOMETER ECOS 186 HW-0.5-OR-HW 0.5 GPF
Lavatory	American Standard Lucerne 0356.xxx	Wall Hung Vitreous China, Faucet: SLOAN Optima ETF-80 Hardwired Sensor, 0.5 GPM
Toilet/Urinal Partitions	Hadrian HDPE Solid Plastic General Partitions HDPE	HDPE w/ no-sightline option panels & doors w/ full height stainless steel hardware
Toilet Accessories	Bobrick or Equal (From full selection)	Stainless Steel
Touchless Hand Dryer	Dyson Blade	High velocity High efficiency hand dryer with 2 stage HEPA Air filtration
LED Lighting	Not specified	LED 4000k. Fixture type and Lumens to be specified by design Architect from full range of recessed and surface mounted lighting fixtures.
Painted Finishes	Walls, Ceilings Doors and Door frames	See attached Specification 99123 for product, colors, finishes and application requirements
Wall Tile	Porcelain Tile - Daltile Elect EL-30 12x24 White Elect 3x24 White Bullnose	All Fixture walls from top of Cove base to 7'-6" above finished floor (AFF). Toilet stall side walls to 7'-6" AFF and 6" beyond stall door. To 4' AFF all other walls. Cap borders with 3x24 Bull nose tile. See attached Specification 93013 for requirements
Ceiling Finishes	Remove existing hard ceilings as needed to complete ALL required work & replace in kind. Patch and paint to new like appearance.	See attached specification 99123 for product, color, finish, and application requirements.
Floor Finish in ALL RENOVATED RESTROOM	Resinous Coating Dur-A-Gard by Dur-A-Flex, Inc. Color: Smoke Blue Finish: Armor Top Smoke Blue Gloss	See attached "Resinous Coating" Specification and integral base detail.

NOTE: ALL WALL MOUNTED PARTITIONS AND ACCESSORIES MUST BE MOUNTED TO SOLID WOOD BLOCKING. NO HOLLOW WALL ANCHORS WILL BE PERMITTED.

2. What is the occupancy load for each restroom (including the stalls in women's and the stalls and urinals in the men's) for ADA compliance? Are we replacing the same number of toilets, urinals, sinks and accessories?
 - A This task is the awarded design team's responsibility to determine based on code compliance requirements.
3. Please confirm there are 6 public restrooms and 5 private restrooms.
 - A Yes, there are 6 group restrooms and 5 single restrooms. The restrooms to be renovated are clearly identified in building Units "A" & "B" on the attached original As-Built drawings. As-built drawings are provided for restroom and plumbing chase location reference only. All dimensions and existing conditions MUST be field verified by the awarded design build contractor.
4. There are four group restrooms on the second and third floor in the north gymnasium wing. Are those excluded from this RFP?
 - A Yes, they are excluded. There is no work in the unrenovated ("Unit C") North Gymnasium wing.
5. Are we replacing and/or install new the doors/frames/hardware and/or door operators to all public restrooms?
 - A Yes, See the issued solicitation text for requirements on all restroom entry doors and base your proposal on that information
6. Are we replacing all doors/frames/hardware to all private toilets?
 - A See the issued solicitation text for requirements on all restroom entry doors and base your proposal on that information.
7. Are the restrooms required to be a conditioned space? If so, are we updating the heating/cooling and tie-in into the existing systems?
 - A There is no central heating or cooling supply systems available for connection of the restrooms. Warm weather conditioning is expected thru an efficient conditioned building air intake & exhaust fan system. The renovated restrooms shall include cold weather space conditioning with a new "high efficiency" supplemental heat source or sources to meet code requirements.
8. Are we using the existing ducts and fans for the exhaust?
 - A Reuse of existing ducts is acceptable provided they meet design requirements. All exhaust fan units shall be new. Replace wiring, conduits, and elec. boxes/covers as needed to ensure new work is properly installed to code, functional and watertight. Provide 2 years' worth replacement belts as attic stock for each fan unit replaced as part of this requirement.
9. Are there any modifications and/or replacement to the fire alarm, fire sprinkler, and mechanical systems? If so, who are the manufacturers of the existing systems should we need to tie-ins?
 - A This will be determined by the awarded design team and the completed facility must meet all applicable code requirements. Any required changes or modifications to the fire alarm and fire suppression systems shall be the Design Build team's

responsibility to determine; design and execute based on their own survey of the site. The Fire Alarm system is Simplex. DC Life Safety is the University's Fire Alarm (FA) and Fire Suppression (FS) Contractor. All direct interaction with existing systems such as but not limited to: system call outs for FA device connections and suppression system drain downs must be scheduled and coordinated on-site with the University's FA & FS Contractor at no cost to the University.

10. Are all restrooms require to have a functional floor drain?
 - A Yes. Connect new floor drains to the nearest usable sanitary connection at each public location and ensure proper venting. Install easily accessible and serviceable trap primers. See attached original as-built drawings for restroom layouts and chase locations. The original As-Built documents are being provided for reference only and may or may not be accurate and does not relieve the design build team of the responsibility to field verify all information for accuracy.
11. For the first-floor restroom work, are the existing plumbing water lines, vent line on grade or crawlspace?
 - A The first-floor restrooms are slab on grade.
12. Please confirm if the existing hot water systems, such as hot water heaters, piping and recirculation pumps are adequate for the renovation?
 - A The existing water heater and recirculating system appear to be functional. However, it is the design-build team's responsibility to survey the adequacy of the system for the renovated restrooms and make any necessary changes required to meet the renovated space's demand.
 - A Replacement of the hot water recirculation pump is required regardless of the adequacy of the existing system. Ensure adequacy of the recirculating systems is
13. What is the preferred LED lighting color and fixture? Will the lighting be recess or surface mounting?
 - A See response to question #1
14. Are there any hazmat materials to be removed? If so, who is responsible for survey and remediate the hazmat materials? In addition, can UDC provide an allowance for this work?
 - A A hazmat survey has not been conducted in the areas to be renovated so no positive confirmation of the presence of hazmat exist. However, in a previous renovation, pipe insulation in adjacent spaces was determined to have a hazardous material on the fittings and the insulation mastic. Additionally, ACM containing fireproofing insulation was previously found above hard ceilings. The cost of testing shall be included in the RFP. See response #17 for additional Hazmat requirements.
15. How many public or private restrooms can we perform work at the same time? Are we separating this work into 3 phases, completing one floor at a time?
 - A At least one (1) Men's and 1 Women's restroom must remain in service for the duration of construction. It is the awarded contractor's responsibility to submit a phasing plan to the Contract Administrator for approval prior to mobilization.
 - A Mobilization must start within 7 calendar days of Notice To Proceed.

16. Who is responsible for applying and paying the building permit at DCRA?

A The awarded contractor shall be responsible for all permits and permit fees.

17. ABOVE CEILING FIREPROOFING WORKSHEET

ALL BIDDERS must complete the following worksheet and provide the unit price total on the DIV. 13 line of the B.5 PRICE SCHEDULE and be include in the LUMP SUM TOTAL bid price.

The contractor shall provide unit pricing for abatement of 1000SF of Above Ceiling Asbestos containing spray on fireproofing. This price is for “ACM Remediation Only”. Only the abatement of hazardous materials can be invoiced against the Div. 13 Line Item. Hazardous material disposal manifests must be submitted with invoice. All costs to demolish and replace hard ceilings must be included in bidders base price. Contractor must include cost of ACM testing in base contract price.

Above Ceiling Spray on Fireproofing Unit Price: \$x.xx/SF \$ _____
Total price for 1000SF of Above Ceiling ACM fireproofing \$ _____*

*Total price MUST be entered on Div.13 line of the B.5 PRICE SCHEDULE

18. TOILET ACCESSORIES

A. Owner to select from full line of stainless-steel or Chrome accessories including but limited to the following:

- i. WALL MOUNTED MIRRORS (SIZES VARY)
- ii. SURFACE-MOUNTED LAVATORY SOAP DISPENSER
- iii. COUNTER-MOUNTED LAVATORY SOAP DISPENSER
- iv. SEMI-RECESSED WASTE RECEPTACLE
- v. TOILET-SEAT-COVER DISPENSER
- vi. DIAPER CHANGING STATION
- vii. GRAB BARS
- viii. DOUBLE-ROLL TOILET TISSUE DISPENSER
- ix. SANITARY NAPKIN DISPOSAL
- x. SANITARY NAPKIN/TAMPON VENDOR
- xi. ROBE AND CLOTHING HOOKS

B.5 [PRICE SCHEDULE]

The Offeror must complete this breakdown of prices and submit it with the proposal.

DIVISION NO. *	TOTAL PRICE BREAKDOWN	TOTAL PRICE BREAKDOWN
Div. 01	General Requirements	
Div. 02	Demolition & Removals (Non-Hazardous Waste Disposal)	
Div. 03	Concrete	
Div. 04	Masonry	
Div. 05	Metals	
Div. 06	Wood, Plastics and Composites	
Div. 07	Thermal and Moisture Protection	
Div. 08	Wood and Windows	
Div. 09	Finishes	
Div. 10	Specialties	
Div. 11	Equipment	
Div. 12	Furnishings & Casework	
Div. 13*	HAZMAT Abatement cost from Worksheet SEE PRE-BID Q&A RESPONSE #17 FOR REQUIREMENT	
Div. 14	Conveying Equipment	
Div. 21	Fire Suppression	
Div. 22	Plumbing	
Div. 23	Heating, Ventilation and Air Conditioning	
Div. 25	Integrated Automation	
Div. 26	Electrical	
Div. 27	Communications	
Div. 28	Electronic Safety and Security	
Div. 31	Earthwork	
Div. 32	Exterior Improvements	
Div. 33	Utilities	
Design Fee		
ALLOWANCE		\$75,000.00
Lump Sum Bid Price	Lump Sum Proposal Price (copy from CLIN 0001, Section-B.4, Part-I of RFP)	

*Div. 13 Line item cost is required

GF-2020-R-0013 for Design-Build Services for the Bertie Backus Restroom Renovations

Section B.5 Price Schedule

Allowance	Latent Conditions - Owners Allowance	\$75,000.00
-----------	--------------------------------------	-------------

- A. Allowance No. 5: Latent Conditions – Owners Allowance: Include the sum of \$75,000.00.00 for latent or unforeseen site conditions or value added engineering
1. Latent and/or unforeseen site conditions are defined as a construction element identified in the field by the Architect, Owner’s Contract Administrator or General Contractor that is not part of the base contract and complies with one of the following criteria.
 - i. A construction element identified by the Architect or Owner as not in the base contract but required to complete the project and meet the design objective.
 - ii. A construction element identified by the General Contractor as critical to support the base contract work and confirmed as “not in the base contract” by the Architect and Owner’s contract administrator.
 - iii. Any construction element identified by the Owner as required for the continued support of the Bertie Backus Building and its infrastructure.
 2. Any task initiated under this allowance MUST be confirmed by and at the direction of the Contract Administrator (CA) in writing as an unforeseen or latent condition and not part of the base contract requirements.
 - i. Immediately after receipt of the CA written directions, the contractor will proceed with the identified task in a manner that allows all work to be completed by the scheduled project completion date. The General Contractor will secure at minimum two (2) competitive cost proposals for any work directed by the CA under this allowance.
 - ii. All work performed under this allowance will comply with all terms and conditions of the base contract in its entirety.

DIV.13 ABOVE CEILING FIRPROOFING WORKSHEET

ALL BIDDERS must complete the following worksheet and provide the unit price total on the DIV. 13 line of the B.5 PRICE SCHEDULE and be include in the LUMP SUM TOTAL bid price.

The contractor shall provide unit pricing for abatement of 1000SF of Above Ceiling Asbestos containing spray on fireproofing. This price is for “ACM Remediation Only”. Only the abatement of hazardous materials can be invoiced against the Div. 13 Line Item. Hazardous material disposal manifests must be submitted with invoice. All costs to demolish and replace hard ceilings must be included in bidders base price. Contractor must include cost of ACM testing in base contract price.

Above Ceiling Spray on Fireproofing Unit Price: \$x.xx/SF \$ _____

Total price for 1000SF of Above Ceiling ACM fireproofing \$ _____ *

*Total price MUST be entered on Div.13 line of the B.5 PRICE SCHEDULE

SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Porcelain tile.
 - 2. Glass wall tile.
 - 3. Stone thresholds.
 - 4. Tile backing panels.
 - 5. Waterproof membrane for thinset applications.
 - 6. Crack isolation membrane.
 - 7. Metal edge strips.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 - 1. Product Data: For adhesives, indicating VOC content.
 - 2. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
 - 3. Laboratory Test Reports: For sealers, indicating compliance with requirements for low-emitting materials.
- C. Samples:
 - 1. Assembled samples mounted on a rigid panel, with grouted joints, for each type and composition of tile and for each color and finish required.
 - 2. Stone thresholds.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer is a five-star member of the National Tile Contractors Association.
2. Installer employs Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers.

B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Build mockup of floor tile installation.
2. Build mockup of each type of wall tile installation.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

PART 2 - PRODUCTS

2.1 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide Standard-grade tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

2.2 TILE PRODUCTS

C. Ceramic Tile Walls: Porcelain wall tile. (at restrooms)

1. Basis-of-Design Product: Subject to compliance with requirements, provide Daltile Elect EL-30 White Porcelain Tile 12" x 24" and 3" x 24" Bullnose cap.
2. Module Size: 12 by 24 inches (304 by 608 mm).
3. Thickness: (3/8 inch).
4. Finish: Unpolished.
5. Tile Color and Pattern: EL30 White.
6. Grout Color: As selected by Architect from manufacturer's full range.

2.3 THRESHOLDS

- A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
 - 1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to **1/16 inch (1.5 mm)** above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to **1/2 inch (12.7 mm)** or less above adjacent floor surface.
- B. Marble Thresholds: ASTM C 503/C 503M, with a minimum abrasion resistance of 12 according to ASTM C 1353 or ASTM C 241/C 241M and with honed finish.
 - 1. Description: Uniform, fine- to medium-grained white stone with gray veining.

2.4 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 or ASTM C 1325, Type A.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. National Gypsum Company.
 - b. USG Corporation.

2. Thickness: 5/8 inch (15.9 mm).

2.5 WATERPROOF MEMBRANE

- A. General: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
 1. Adhesives shall have a VOC content of 65 g/L or less.
 2. Adhesive shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.6 CRACK ISOLATION MEMBRANE

- A. General: Manufacturer's standard product that complies with ANSI A118.12 for high performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
 1. Adhesive shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.7 SETTING MATERIALS

- A. Standard Dry-Set Mortar (Thinset): ANSI A118.1.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Custom Building Products.
 - b. LATICRETE SUPERCAP, LLC.
 - c. MAPEI Corporation.
 2. For wall applications, provide nonsagging mortar.

2.8 GROUT MATERIALS

- A. High-Performance Tile Grout: ANSI A118.7.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide butech Porcelanosa Grupo ; Grey. or a comparable product by one of the following:
 - a. Custom Building Products.
 - b. LATICRETE SUPERCAP, LLC.
 - c. MAPEI Corporation.

2. Polymer Type: Dry, redispersible form, prepackaged with other dry ingredients.
3. Polymer Type: Liquid-latex form for addition to prepackaged dry-grout mix.

2.9 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. Metal Edge Strips: Angle or L-shape, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; nickel silver exposed-edge material.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Blanke Corporation.
 - b. Ceramic Tool Company, Inc.
 - c. Schluter Systems L. P.

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 the Work.
 1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.

2. Verify that concrete substrates for tile floors installed with thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- B. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped **1/4 inch per foot (1:50)** toward drains.
- C. Blending: For tile exhibiting color variations, 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 CERAMIC TILE INSTALLATION

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:
 - a. Tile floors in wet areas.
 - b. Tile floors consisting of tiles **8 by 8 inches (200 by 200 mm)** or larger.
 - c. Tile floors consisting of rib-backed tiles.
- B. 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.
- C. 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.
- D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
- E. Where accent tile differs in thickness from field tile, vary setting bed thickness so that tiles are flush.
- F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize

the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

- G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
- ~~1. Floor Porcelain Tile: 1/8 inch (3.2 mm) at T-4.~~
 - ~~2. Glass Wall Tile: 1/4 inch (6.4 mm) at T-3.~~
 3. Porcelain Wall Tile: 1/8 inch (3.2 mm).
- H. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
- I. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.
1. At locations where mortar bed (thickset) would otherwise be exposed above adjacent floor finishes, set thresholds in mortar (thinset).
 2. Do not extend cleavage membrane waterproofing or crack isolation membrane under thresholds set in mortar. Fill joints between such thresholds and adjoining tile set on cleavage membrane waterproofing or crack isolation membrane with elastomeric sealant.
- J. Metal Edge Strips: Install at locations indicated.
- K. Floor Sealer: Apply floor sealer to grout joints in tile floors according to floor-sealer manufacturer's written instructions. As soon as floor sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.
- L. Install tile backing panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.
- M. Install waterproofing to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
- N. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.

3.4 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

- A. Interior Wall Installations, Wood or Metal Studs or Furring:

—

—

—

—

1. Ceramic Tile Installation at all tile walls: TCNA W244C or TCNA W244F; thinset mortar on cementitious backer units or fiber-cement backer board.
 - a. Ceramic Tile Type: Daltile - Elect EL30 White.
 - b. Thinset Mortar: Improved modified dry-set mortar.

END OF SECTION 093013

SECTION 096723 - RESINOUS COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Decorative resinous flooring systems.
2. High-performance resinous flooring systems.

B. Related Sections:

1. Section 079200 "Joint Sealants" for sealants installed at joints in resinous flooring systems.
2. Section 096623 "Resinous Matrix Terrazzo Flooring" for thin-set, resinous matrix terrazzo.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include manufacturer's technical data, application instructions, and recommendations for each resinous coating component required.

- B. Samples for Verification: For each resinous coating system required, 6 inches (150 mm) square, applied to a rigid backing by Installer for this Project.

1.5 INFORMATIONAL SUBMITTALS

- A. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.

- B. Material Certificates: For each resinous coating component, from manufacturer.

- C. Material Test Reports: For each resinous coating system, by a qualified testing agency.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For resinous coating to include in maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.
- B. Engage an installer who is certified in writing by resinous coating manufacturer as qualified to apply resinous coating systems indicated.
- C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Apply full-thickness mockups on 96-inch- (2400-mm-) square floor and wall area selected by Architect.
 - a. Include 96-inch (2400-mm) length of integral cove base with inside and outside corner.
 - 2. Simulate finished lighting conditions for Architect's review of mockups.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

1.9 FIELD CONDITIONS

- A. Environmental Limitations: Comply with resinous coating manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous coating application.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous coating application.
- C. Close spaces to traffic during resinous coating application and for 24 hours after application unless manufacturer recommends a longer period.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Flammability: Self-extinguishing according to ASTM D635.

2.2 MANUFACTURERS

- A. Source Limitations: Obtain primary resinous coating materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Obtain secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from manufacturer recommended in writing by manufacturer of primary materials.

Basis-of-Design Product: Subject to compliance with requirements, use product Dur-A-Gard by Dur-A-Flex, Inc., or comparable and approved product by one of the following:

1. Stonhard, Inc.
2. Crossfield Products Corp.; Dex-O-Tex
3. Tnemec Company, Inc.

2.3 RESINOUS COATINGS

- A. Resinous Coating Systems: Abrasion-, impact-, and chemical-resistant, aggregate-filled, and resin-based monolithic surfacing designed to produce a seamless coating and integral cove base.
- B. High-Performance Resinous Coating for Concrete Floor:
 1. System Characteristics:
 - a. Color and Pattern: Smoke Blue by (Dur-A-Gard)
 - b. Wearing Surface: Textured for slip resistance on floors.
 - c. Overall System Thickness: 3/16"
 - d. Federal Agency Approvals: USDA approved for food-processing environments.
 2. Primer:
 - a. Resin: Epoxy.
 - b. Formulation Description: High solids.
 - c. Type: Clear.
 - d. Thickness: As recommended by the manufacturer.
 3. Patching and Fill Material: Resinous product of or approved by resinous coating manufacturer and recommended by manufacturer for application indicated.

4. Body Coats:
 - a. Resin: Epoxy.
 - b. Formulation Description: 100 percent solids.
 - c. Type: Pigmented.
 - d. Application Method: Self-leveling slurry with broadcast aggregates.
 - e. Thickness of Coats: As recommended by the manufacturer
 - f. Aggregates: Manufacturer's standard.

5. Topcoats: Sealing or finish coats.
 - a. Resin: Epoxy.
 - b. Formulation Description: 100 percent solids.
 - c. Type: Pigmented.
 - d. Thickness of Coats: As recommended by the manufacturer
 - e. Finish: Gloss.

6. System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:
 - a. Compressive Strength: 7,700 psi per ASTM C 579 after 7 days.
 - b. Tensile Strength: 1000 psi per ASTM C 307.
 - c. Flexural Strength: 2,400 psi per ASTM C 580.
 - d. Flexural modulus of Elasticity: 2.6×10^6 psi per ASTM C 580.
 - e. Water Absorption: < 1 percent per ASTM C 413.
 - f. Thermal Coefficient of Linear Expansion: 1.1×10^{-5} in./in. °C per ASTM C-531.
 - g. Indentation: <Insert number> percent maximum per MIL-D-3134.
 - h. Impact Resistance: No chipping, cracking, or delamination and not more than 1/16-inch (1.6-mm) permanent indentation per MIL-D-3134.
>160 in./lbs. per ASTM D-2794.
 - i. Resistance to Elevated Temperature: No slip or flow of more than 1/16 inch (1.6 mm) per MIL-D-3134.
 - j. Abrasion Resistance: .05 gm max maximum weight loss per ASTM D 4060, CS-17.
 - k. Flammability: Self-extinguishing per ASTM D 635.
 - a. Critical Radiant Flux: **0.45 W/sq. cm** or greater per NFPA 253.
 - b. Hardness: 80 to 84 Shore D per ASTM D 2240.

- C. System Chemical Resistance: Test specimens of cured resinous flooring system are unaffected when tested according to [ASTM D 1308 for 50 percent immersion] [ASTM D 543, Procedure A, for immersion] [ASTM C 267 for immersion] <Insert testing requirements> in the following reagents for no fewer than seven days:
 1. <Insert list of reagents that Owner has determined are likely to contact resinous flooring during in-service use>.

2.4 ACCESSORIES

- A. Waterproofing Membrane: Type recommended by manufacturer for substrate and primer and body coats indicated.
 - 1. Formulation Description: High solids.
- B. Reinforcing Membrane: Flexible resin formulation that is recommended by manufacturer for substrate and primer and body coats indicated and that prevents substrate cracks from reflecting through resinous flooring.
 - 1. Formulation Description: High solids
 - a. Provide fiberglass scrim embedded in reinforcing membrane.
- C. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare and clean substrates according to resinous coating manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous coating application.
- B. Concrete Substrates (Floors): Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous coating.
 - 1. Roughen concrete substrates as follows:
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
 - b. Comply with NACE No. 6/SSPC-SP13, with a Concrete Surface Profile (CSP) of 3 or greater in accordance with the International Concrete Repair Institute (ICRI) Technical Guideline No. 310.2R, unless manufacturer's written instructions are more stringent.
 - 2. Repair damaged and deteriorated concrete according to resinous coating manufacturer's written instructions.
 - 3. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
 - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with application of resinous coating only after substrates have maximum moisture-vapor-emission rate of 3 lb. of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) of slab area in 24 hours.

- b. Relative Humidity Test: Use in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 80 percent relative humidity level measurement.
- C. Patching and Filling: Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
 - 1. Control Joint Treatment: Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous coating according to manufacturer's written instructions.
- D. Resinous Materials: Mix components and prepare materials according to resinous coating manufacturer's written instructions.

3.2 APPLICATION

- A. Apply components of resinous coating system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
 - 1. Coordinate application of components to provide optimum adhesion of resinous coating system to substrate, and optimum intercoat adhesion.
 - 2. Cure resinous coating components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
 - 3. Expansion and Isolation Joint Treatment: At substrate expansion and isolation joints, comply with resinous coating manufacturer's written instructions.
- B. Primer: Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Integral Cove Base: Apply cove base mix to wall surfaces before applying coating. Apply according to manufacturer's written instructions and details, including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.
 - 1. Integral Cove Base: 4 inches (100 mm) high.
- D. Self-Leveling Body Coats: Apply self-leveling slurry body coats in thickness indicated for coating system.
 - 1. Aggregates: Broadcast aggregates at rate recommended by manufacturer and, after resin is cured, remove excess aggregates to provide surface texture indicated.
- E. Troweled or Screeded Body Coats: Apply troweled or screeded body coats in thickness indicated for coating system. Hand or power trowel and grout to fill voids. When body coats are cured, remove trowel marks and roughness using method recommended by manufacturer.
- F. Topcoats: Apply topcoats in number indicated for coating system and at spreading rates recommended in writing by manufacturer and to produce wearing surface indicated.

3.3 FIELD QUALITY CONTROL

- A. Material Sampling: Owner may, at any time and any number of times during resinous coating application, require material samples for testing for compliance with requirements.
 - 1. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Contractor.
 - 2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
 - 3. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reapply coating materials to comply with requirements.

- B. Core Sampling: At the direction of Owner and at locations designated by Owner, take one core sample per 1000 sq. ft. (92.9 sq. m) of resinous coating, or portion of, to verify thickness. For each sample that fails to comply with requirements, take two additional samples. Repair damage caused by coring. Correct deficiencies in installed coating as indicated by testing.

3.4 PROTECTION

- A. Protect resinous coating from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous coating manufacturer.

END OF SECTION 096723

SECTION 099123 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and the application of paint systems on interior substrates.

1.2 DEFINITIONS

- A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- B. MPI Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- C. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- D. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- E. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- F. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- G. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Include Printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
- B. Sustainable Design Submittals:
 - 1. Product Data: For paints and coatings, indicating VOC content.
 - 2. Laboratory Test Reports: For paints and coatings, indicating compliance with requirements for low-emitting materials.
- C. Samples: For each type of paint system and in each color and gloss of topcoat.

1.4 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
1. Architect will select one surface to represent surfaces and conditions for application of each paint system.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
 - b. Other Items: Architect will designate items or areas required.
 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide (PT-1 at Restroom Walls) Sherwin Williams Pre-Catalyzed Waterbased Epoxy K45-150 Series Eg-Shel or comparable product by one of the following:
1. Benjamin Moore & Co.
 2. Pratt & Lambert.
 3. Valspar Corporation - Architectural (Pro).
- B. Products: Subject to compliance with requirements, provide product listed in the Interior Painting Schedule for the paint category indicated.

2.2 PAINT, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- C. VOC Content: For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:

1. Flat Paints and Coatings: 50 g/L.
 2. Nonflat Paints and Coatings: 150 g/L.
 3. Primers, Sealers, and Undercoaters: 200 g/L.
 4. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
 5. Pretreatment Wash Primers: 420 g/L.
- D. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- E. Colors:
1. PT-1 Sherwin Williams 7006 Extra White for use on all restroom walls.
 2. PT-2 Sherwin Williams 7757 High Reflective White Flat for use on all restroom ceilings.
 3. PT-3 Sherwin Williams 7661 Reflection Semi-Gloss for use on all doors and frames.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
1. Masonry (Clay and CMUs): 12 percent.
 2. Wood: 15 percent.
 3. Gypsum Board: 12 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
- B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 INTERIOR PAINTING SCHEDULE

A. CMU Substrates:

- 1. High-Performance Architectural Latex System **MPI INT 4.2D MPI INT 4.2P:**
 - a. Block Filler: Block filler, latex, interior/exterior, **MPI #4.**
 - 1) Sherwin Williams ProIndustrial B42 Series 00151.
 - b. Intermediate Coat: Latex, interior, high performance architectural, matching topcoat.
 - c. Topcoat: Latex, interior, high performance architectural (MPI Gloss Level 3), **MPI #139.**
 - 1) Sherwin Williams ProIndustrial K45-150 Series Eg-Shel.

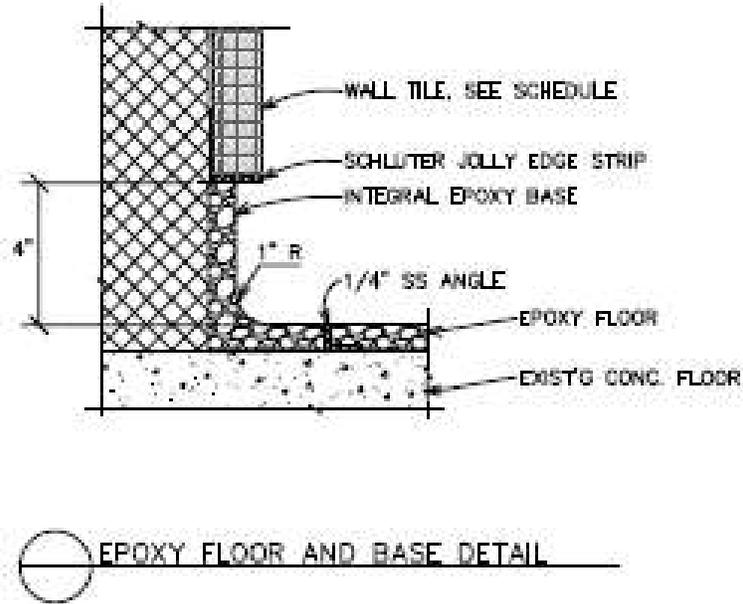
B. Gypsum Board Substrates:

- 1. Institutional Low-Odor/VOC Latex System **MPI INT 9.2M:**
 - a. Prime Coat: Primer sealer, interior, institutional low odor/VOC, **MPI #149.**
 - b. Intermediate Coat: Latex, interior, institutional low odor/VOC, matching topcoat.
 - c. Topcoat: Latex, interior, institutional low odor/VOC, flat (MPI Gloss Level 1), **MPI #143.**
 - d. Topcoat: Latex, interior, institutional low odor/VOC (MPI Gloss Level 3), **MPI #145.**
 - e. Topcoat: Latex, interior, institutional low odor/VOC, semi-gloss (MPI Gloss Level 5), **MPI #147.**
- 2. High-Performance Architectural Latex System **MPI INT 9.2B:**
 - a. Prime Coat: Primer sealer, latex, interior, **MPI #50.**
 - 1) Sherwin Williams ProMar 200 Zero VOC Primer

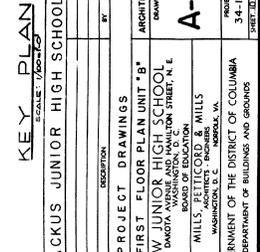
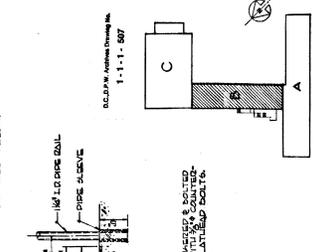
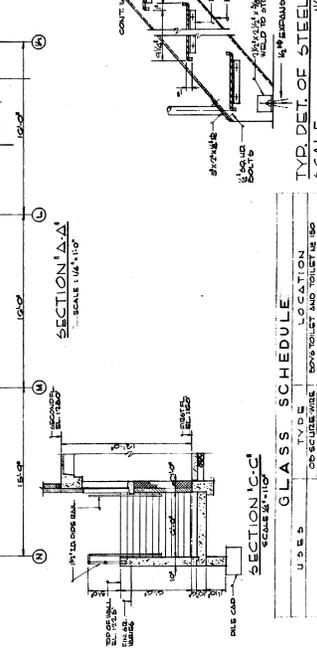
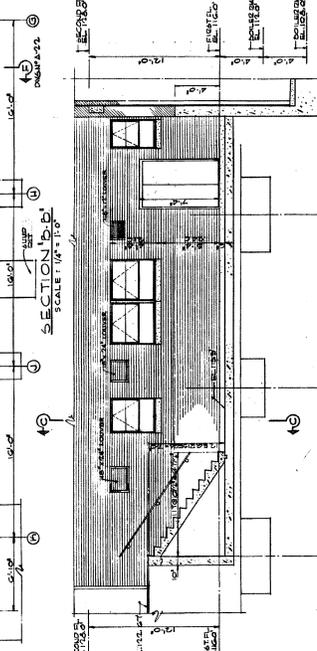
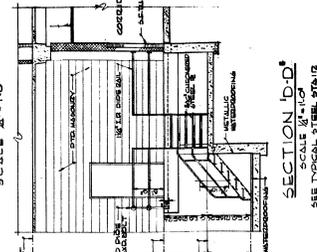
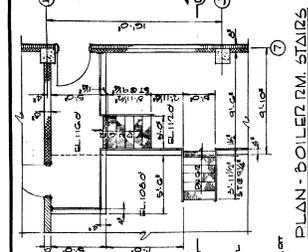
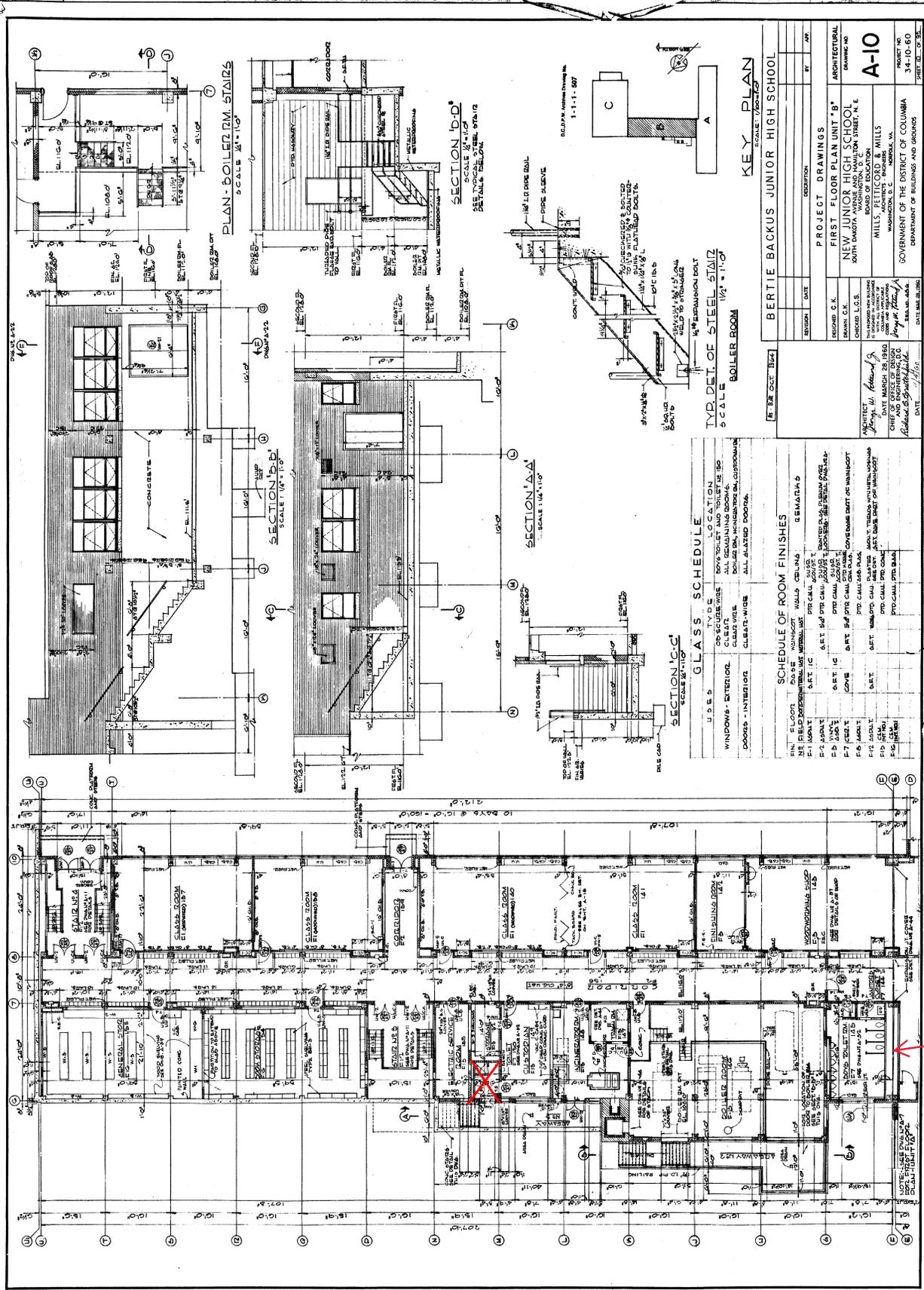
- b. Intermediate Coat: Latex, interior, high performance architectural, matching topcoat.
- c. Topcoat: Latex, interior, high performance architectural (MPI Gloss Level 3), **MPI #139**.
 - 1) Sherwin Williams ProIndustrial Pre-Catalyzed Waterbased Epoxy K45-150 Series Eg-Shel.

END OF SECTION 099123

Epoxy Floor and Cove Base Detail



MATERIAL SCHEDULE							
ITEM MARK	SPEC SECTION	ITEM DESCRIPTION	MANUFACTURER	STYLE NAME/NO	COLOR	FINISH/SIZE	REMARKS
RC-1	096723	RESINOUS FLOORING	DUR-A-FLEX, INC.	DUR-A-GARD	SMOKE BLUE	ARMOR TOP SMOKE BLUE GLOSS	RESTROOM FLOOR, 4" INTEGRAL BASE



PROJECT DRAWINGS
FIRST FLOOR PLAN UNIT 'B'
NEW JUNIOR HIGH SCHOOL
 30th STREET, WASHINGTON, D.C. DISTRICT, N.E.
 MILLS, PETTICORD & MILLS
 ARCHITECTS - ENGINEERS
 WASHINGTON, D.C.
 GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF BUSINESS AND FINANCE
 PROJECT NO. 34-10-60
 SHEET NO. 1-12

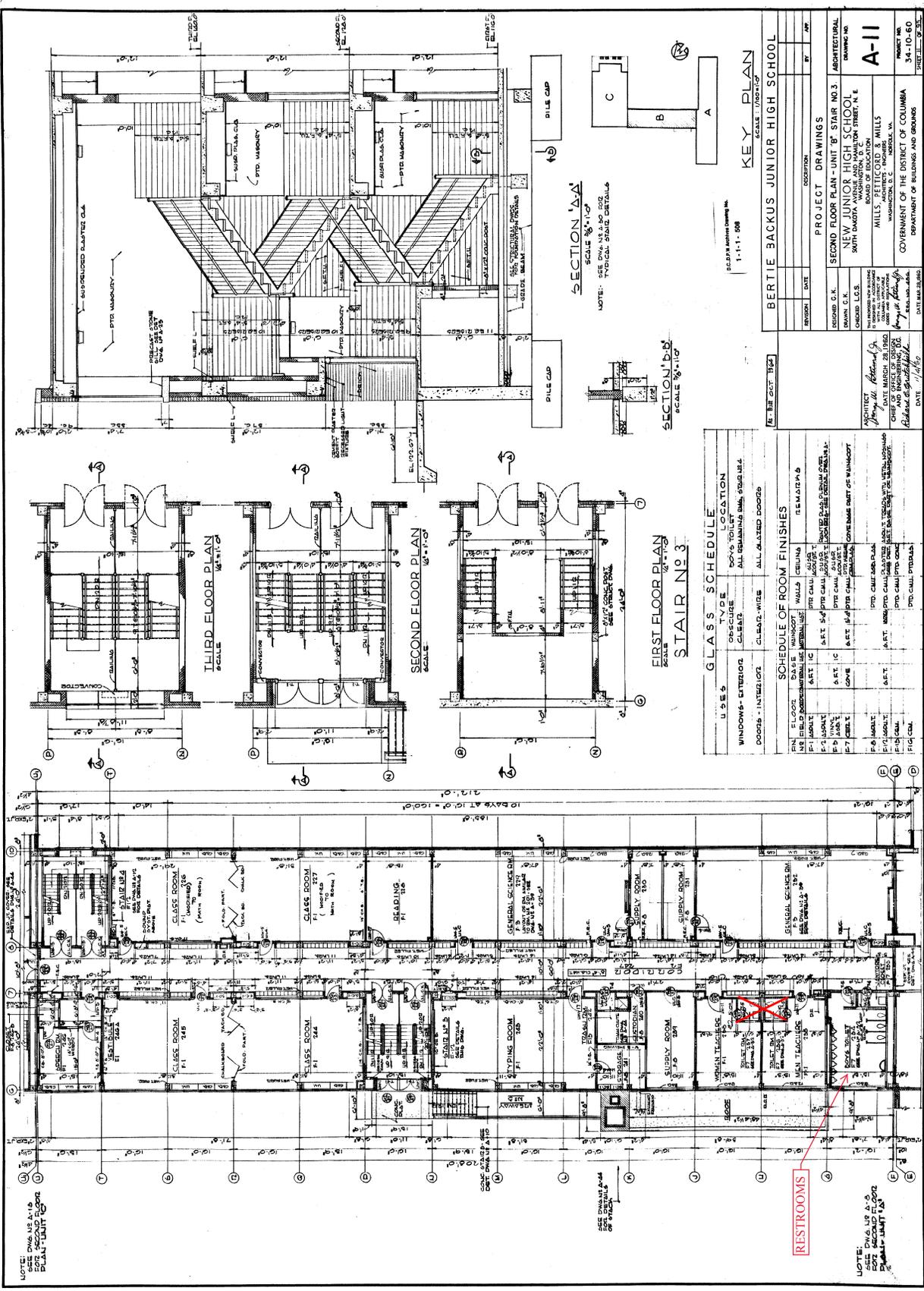
GLASS SCHEDULE

U.S.S.	TYPE	LOCATION
W-1	WINDOWS - EXTERIOR	DOVE TOWER AND TOWER 50
W-2	WINDOWS - INTERIOR	ALL REMAINING ROOMS
W-3	DOORS - INTERIOR	ALL GLAZED DOORS

SCHEDULE OF ROOM FINISHES

FLOOR	BASE	WALLS	CEILING	CEMARTAS
1st	FIELD EXPANDED METAL LATH	MINERAL WOL	MINERAL WOL	MINERAL WOL
2nd	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
3rd	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
4th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
5th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
6th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
7th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
8th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
9th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT
10th	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT	1/2" ASPHALT

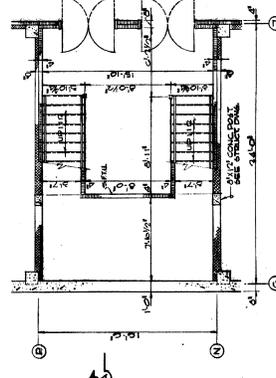
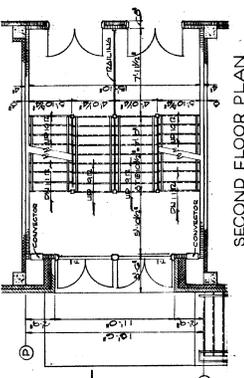
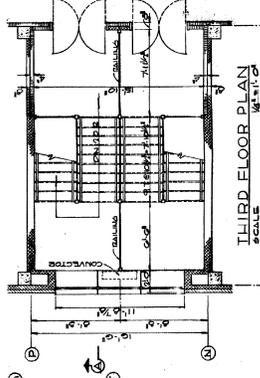
RESTROOM



NOTE: SEE DRAWING FOR PLANTING PLAN

SEE DRAWING FOR PLAN OF SECTION

NOTE: SEE DRAWING FOR PLAN OF SECTION



SECTION 'A-A'
SCALE 3/8" = 1'-0"

NOTE: SEE DRAWING FOR PLAN OF SECTION

SECTION 'B-B'
SCALE 3/8" = 1'-0"

SECTION 'C-C'
SCALE 3/8" = 1'-0"

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

U.S.E.S.	TYPE	LOCATION	REMARKS
WINDOWS - EXTERIOR	DOORS - EXTERIOR	ALL EXTERIOR DOORS	ALL EXTERIOR DOORS
WINDOWS - INTERIOR	DOORS - INTERIOR	ALL INTERIOR DOORS	ALL INTERIOR DOORS

KEY PLAN
SCALE 1/8" = 1'-0"

PROJECT DRAWINGS

SECOND FLOOR PLAN - UNIT 'B' STAIR NO. 3

ARCHITECTURAL DRAWING NO.

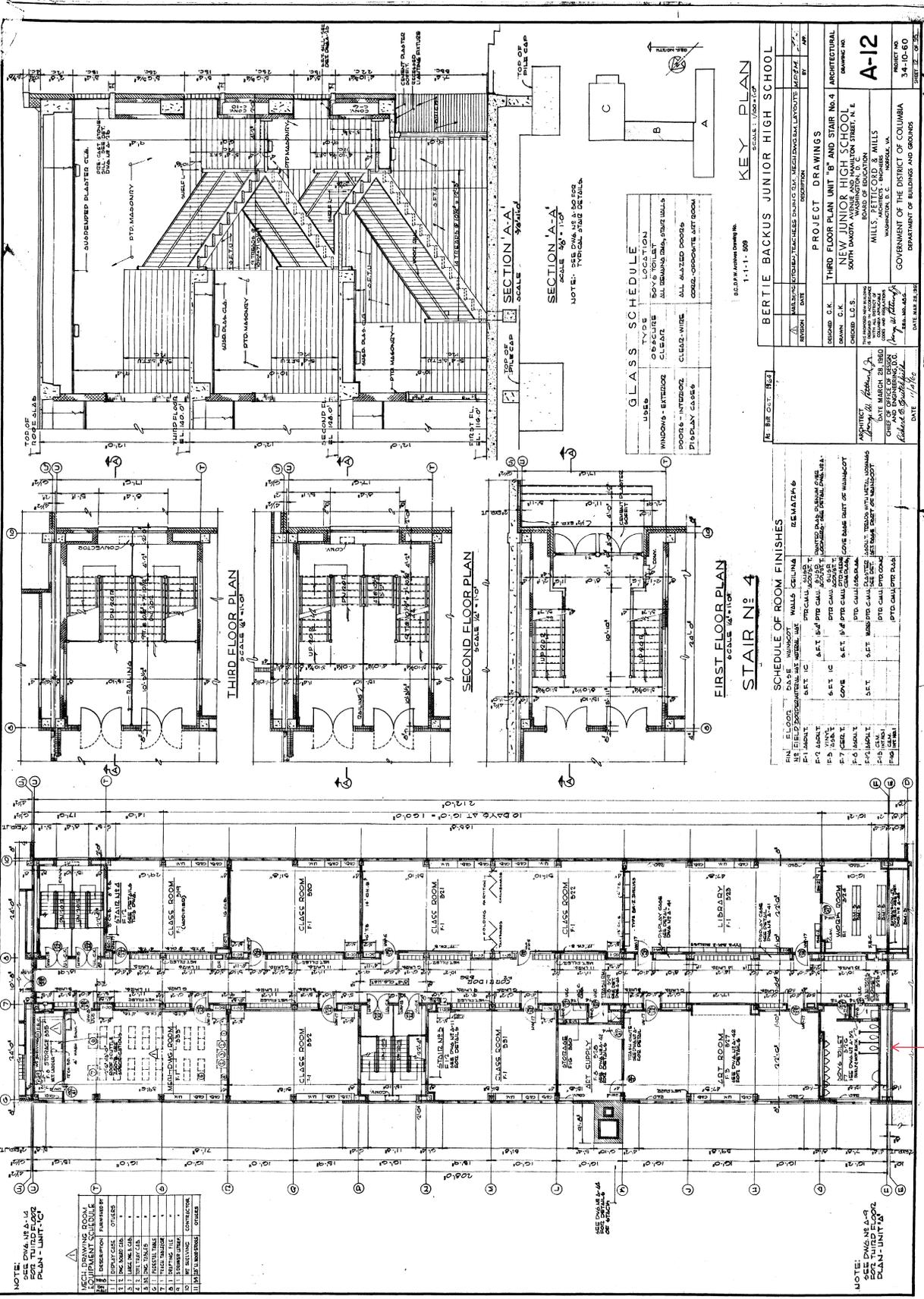
A-11

DATE: 11/15/60

SCALE: 3/8" = 1'-0"

RETURN DRAWINGS TO PLAN FILE

1-12



NOTE:
SEE DWG. A-14
FOR THIRD FLOOR
PLAN - UNIT 'C'

MECH. DRAWING ROOM	EQUIPMENT	REMARKS
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

NOTE:
SEE DWG. A-13
FOR FIRST FLOOR
PLAN - UNIT 'A'

REVISION	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

PROJECT DRAWINGS
THIRD FLOOR PLAN 'B' AND STAIR No. 4
NEW JUNIOR HIGH SCHOOL
 5000 NORTH DAKOTA AVENUE, WASHINGTON STREET, N. E.
 BOARD OF EDUCATION
 WASHINGTON, D. C.
 ARCHITECT: CHARLES W. MILLS
 WASHINGTON, D. C.
 NORFOLK, VA.
 GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF BUILDINGS AND GROUNDS
 SHEET No. 12 OF 26
 DATE: 11/16/68

REVISIONS TO PLAN FILES
 DATE: 11/16/68

SCHEDULE OF ROOM FINISHES

FLOOR	REMARKS
F1	FIELD EXPOSED CONCRETE
F1	WALLS
F1	CEILING
F1	DOORS
F1	WINDOWS
F1	STAIRS
F1	RESTROOMS
F1	LIBRARY
F1	CLASSROOMS
F1	MEDIA CENTER
F1	ART ROOM
F1	MUSIC ROOM
F1	GYMNASIUM
F1	CAFETERIA
F1	OFFICES
F1	STORAGE
F1	MEDIA CENTER
F1	ART ROOM
F1	MUSIC ROOM
F1	GYMNASIUM
F1	CAFETERIA
F1	OFFICES
F1	STORAGE

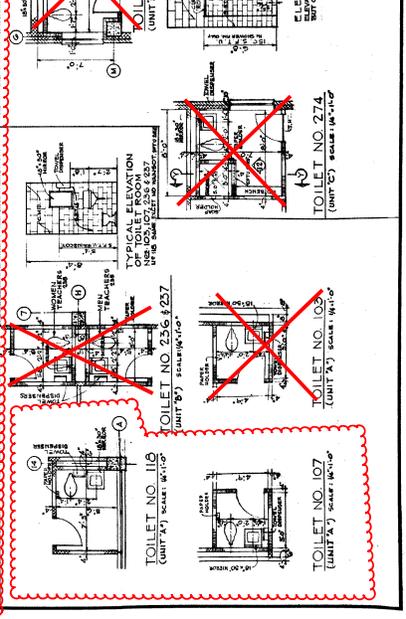
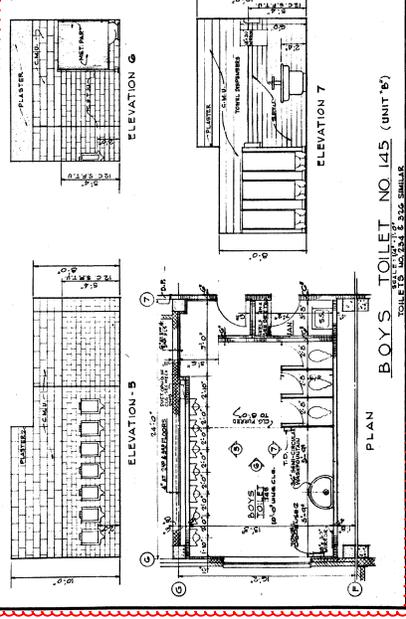
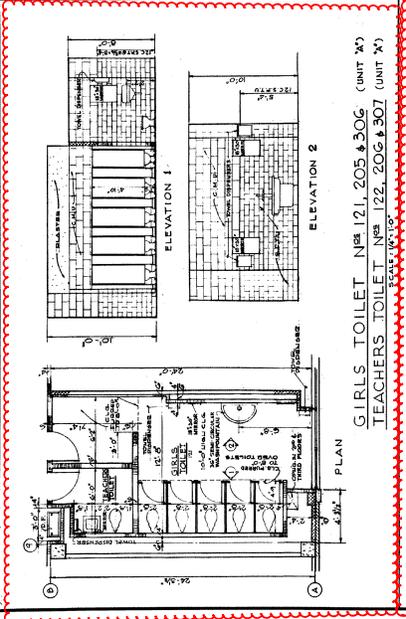
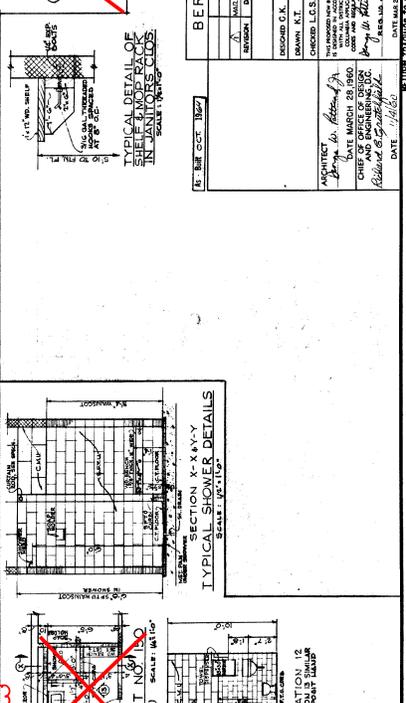
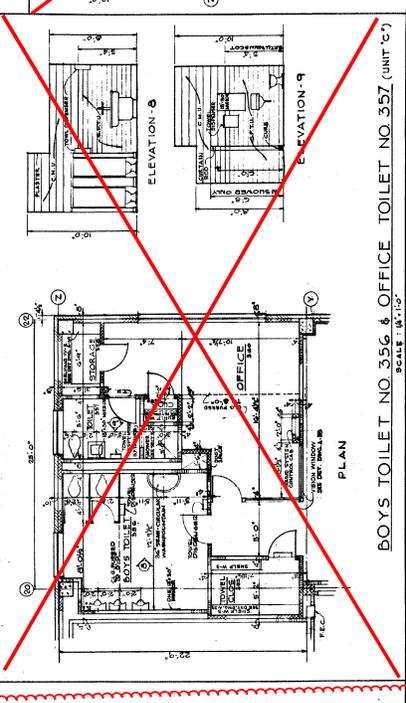
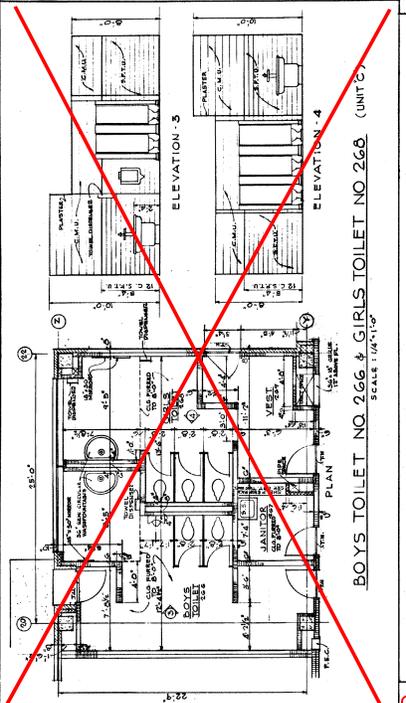
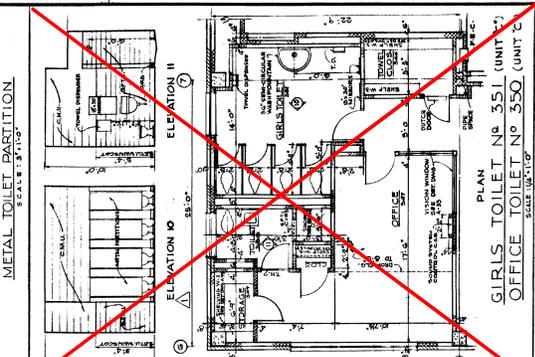
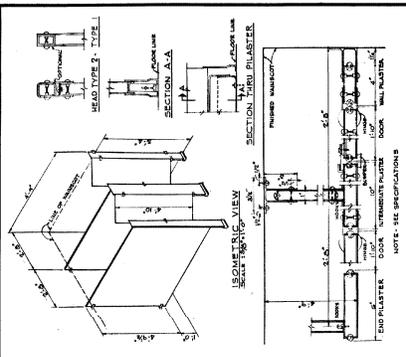
GLASS SCHEDULE

ITEM	DESCRIPTION
1	WINDOWS - INTERIOR
2	WINDOWS - EXTERIOR
3	DOORS - INTERIOR
4	DOORS - EXTERIOR
5	GLASS PARTITIONS
6	GLASS STAIRS
7	GLASS ELEVATORS
8	GLASS CURTAINS
9	GLASS PARTITIONS
10	GLASS STAIRS
11	GLASS ELEVATORS
12	GLASS CURTAINS

SECTION 'A-A'
 SCALE: 1/8" = 1'-0"
 NOTES: 1. SEE DWG. A-14 FOR THIRD FLOOR PLAN - UNIT 'C'.
 2. SEE DWG. A-13 FOR FIRST FLOOR PLAN - UNIT 'A'.

KEY PLAN
 SCALE: 1/8" = 1'-0"
 BERTIE BACKUS JUNIOR HIGH SCHOOL

RESTROOM



PROJECT DRAWINGS

TOILET ROOM DETAILS

NEW JUNIOR HIGH SCHOOL

SOUTH DAMONA AVENUE AND MORTON STREET, N.E.

BOARD OF EDUCATION

MILLS, BETTE COLE WILLIS

ARCHITECT

WASHINGTON, D. C.

NOVEMBER, VA.

GOVERNMENT OF THE DISTRICT OF COLUMBIA

34-10-60

PROJECT NO.

1-111-059

DATE

1-11-59

SCALE 1/4" = 1'-0"

PLAN

GIRLS TOILET NO. 351 (UNIT 'C')

OFFICE TOILET NO. 350 (UNIT 'C')

PROJECT DRAWINGS

TOILET ROOM DETAILS

NEW JUNIOR HIGH SCHOOL

SOUTH DAMONA AVENUE AND MORTON STREET, N.E.

BOARD OF EDUCATION

MILLS, BETTE COLE WILLIS

ARCHITECT

WASHINGTON, D. C.

NOVEMBER, VA.

GOVERNMENT OF THE DISTRICT OF COLUMBIA

34-10-60

PROJECT NO.

1-111-059

DATE

1-11-59

SCALE 1/4" = 1'-0"

PLAN

BOYS TOILET NO. 356 & OFFICE TOILET NO. 357 (UNIT 'C')

PROJECT DRAWINGS

TOILET ROOM DETAILS

NEW JUNIOR HIGH SCHOOL

SOUTH DAMONA AVENUE AND MORTON STREET, N.E.

BOARD OF EDUCATION

MILLS, BETTE COLE WILLIS

ARCHITECT

WASHINGTON, D. C.

NOVEMBER, VA.

GOVERNMENT OF THE DISTRICT OF COLUMBIA

34-10-60

PROJECT NO.

1-111-059

DATE

1-11-59

SCALE 1/4" = 1'-0"

PLAN

BOYS TOILET NO. 145 (UNIT 'B')

RETURN DRAWINGS TO PLAN FILES

1-12