

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK
CITY OF PORTLAND

Please Read
 Application And
 Notes, If Any,
 Attached

BUILDING INSPECTION

PERMIT

Permit Number: 090181

This is to certify that CUMBERLAND COUNTY Of Doton C

has permission to Restroom modification

AT 134 FEDERAL ST

028-F001001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise enclosed-in. 24 HOURS NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. CRPT. K. Gauthier

Health Dept. _____

Appeal Board _____

Other _____

Department Name

Chp. M 3/13/09
 Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling
- Final inspection required at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

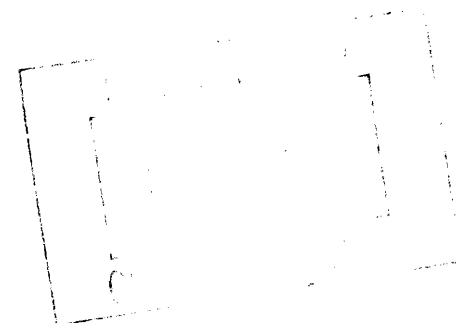
CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Cherie Barry
Signature of Applicant/Designee

3/13/09
Date

K. J. A. A.
Signature of Inspections Official

3-13-09
Date



City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

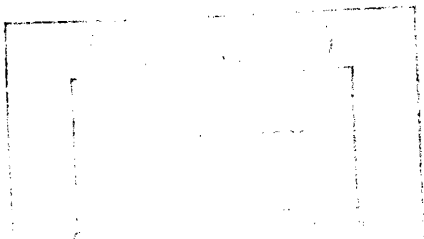
Permit No: 09-0181	Issue Date: 3/13/09	CBL: 028 F001001
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Location of Construction: 134 FEDERAL ST	Owner Name: CUMBERLAND COUNTY OF	Owner Address: 142 FEDERAL ST	Phone:
Business Name:	Contractor Name: Doten Construction	Contractor Address: 175 South Freeport Rd. Freeport	Phone: 2078659012
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: B-3

Past Use: Cumberland County Courthouse	Proposed Use: Cumberland County Courthouse - Restroom modification	Permit Fee: \$410.00	Cost of Work: \$38,109.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied * See Conditions	INSPECTION: Use Group: A-3 Type: <i>existing IBC</i> IBC-2003	

Proposed Project Description: Restroom modification	Signature: <i>KG</i>	Signature: <i>CL 3/13/09</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: Ldobson	Date Applied For: 03/09/2009	Zoning Approval
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Denied Date: <i>3/10/09</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>Requires A</i> <i>Separate request & approved</i>
			

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

From: Benjamin Wallace
To: maegan.crowley@stantec.com; Michael Collins
Date: 3/13/2009 8:22:16 AM
Subject: Re: Fwd: Portland Jetport - Operator's Building - Walk though question

Good morning,
The question with regards to the emergency lighting was more to the function if it is there. The way it see it though, the garage is storage/ industrial use which does require emergency lighting. It is definitely not incidental to the business use, and it shares egress with the business use.
Thanks,

Benjamin A. Wallace Jr.
Fire Prevention Officer
Portland Fire Department
380 Congress Street
Portland, Maine 04101
(207)756-8096
wallaceb@portlandmaine.gov

>>> Michael Collins 03/12 7:47 AM >>>
Please review
Thanks

>>> "Crowley, Maegan" <maegan.crowley@stantec.com> 03/11 12:50 PM >>>
Mike and Keith,

I understand that a question was raised during the walk through at the Operator's Building regarding the Emergency Lighting.

Could you elaborate, please?

It is our understanding per the life safety code NFPA 101 sections 38/39 for business occupancies that this building does not meet the conditions listed for requiring Emergency Lighting.

Listed below are the conditions listed for new and existing Business Occupancies

NFPA 101 Section 38.2.9.1 - Business Occupancies (New)

Emergency lighting shall be provided in accordance with section 7.9 in any building where any one of the following conditions exist.

- (1) The building is two or more stories in height above the level of exit discharge.
- (2) The occupancy is subject to 50 or more occupants above or below the level of exit discharge.
- (3) The occupancy is subject to 300 or more total occupants.

NFPA 101 Section 39.2.9.1 - Business Occupancies (Existing)

Emergency lighting shall be provided in accordance with section 7.9 in any building where any one of the following conditions exist.

- (1) The building is two or more stories in height above the level of exit discharge.
- (2) The occupancy is subject to 100 or more occupants above or below the level of exit discharge.
- (3) The occupancy is subject to 1000 or more total occupants.

Thanks

Maegan Crowley
Stantec
22 Free Street Suite 205
Portland ME 04101-3900
Ph: (207) 775-3211 Ext. 120
Cell: (802) 376-5110
maegan.crowley@stantec.com
stantec.com <<http://www.stantec.com/>>

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ü Please consider the environment before printing this email.

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-0181	Date Applied For: 03/09/2009	CBL: 028 F001001
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Location of Construction: 134 FEDERAL ST	Owner Name: CUMBERLAND COUNTY OF	Owner Address: 142 FEDERAL ST	Phone:
Business Name:	Contractor Name: Doten Construction	Contractor Address: 175 South Freeport Rd. Freeport	Phone (207) 865-9012
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

Proposed Use: Cumberland County Courthouse - Restroom modification	Proposed Project Description: Restroom modification
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 03/10/2009

Note: **Ok to Issue:**

- 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work. It is understood that all work is interior.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Chris Hanson **Approval Date:** 03/13/2009

Note: **Ok to Issue:**

- 1) The demolition of the drywall, mudded fittings and asbestos floor tile done by the owner will require separate Demolition permit.
- 2) State law requires notification of hazardous materials and abatement by a licensed professional
- 3) Separate permits are required for any electrical, plumbing, HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Keith Gautreau **Approval Date:** 03/10/2009

Note: **Ok to Issue:**

- 1) No means of egress shall be affected by this renovation
- 2) A single source supplier should be used for all through penetrations.
- 3) All construction shall comply with NFPA 101



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>142 Federal St. Portland, ME</u>		
Total Square Footage of Proposed Structure/Area <u>175 sq. ft.</u>		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# <u>28</u> Block# <u>F</u> Lot# <u>1</u>	Applicant * must be owner, Lessee or Buyer * Name <u>Cumberland County</u> Address <u>142 Federal St</u> City, State & Zip <u>Portland Me 04101</u>	Telephone: <u>871-8293</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of # Work: \$ <u>38109</u> C of O Fee: \$ _____ Total Fee: \$ <u>410</u>
Current legal use (i.e. single family) <u>Court House</u> If vacant, what was the previous use? _____ Proposed Specific use: _____ Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>Restroom modification</u>		
Contractor's name: <u>Daten's Construction</u> Address: <u>175 South Freeport Rd</u> City, State & Zip <u>Freeport Me 04032</u> Telephone: <u>865-4412</u> Who should we contact when the permit is ready: <u>Bruce Tarbox</u> Telephone: <u>871-8293</u> Mailing address: <u>142 Federal St Portland Me 04101</u> <u>A. Cherie</u>		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

MAR - 9 2009

Signature: Bruce Tarbox Date: 3/9/09

This is not a permit; you may not commence ANY work until the permit is issued.

Mar 06 09 01:37p

HKTA Architects Inc.

207-774-9128

p. 4



Certificate of Design Application

From Designer:

HKTA / ARCHITECTS

Date:

3/6/09

Job Name:

ADA RESTROOMS UPGRADE - SECOND FLOOR

Address of Construction:

CUMBERLAND COUNTY COURTHOUSE
142 FEDERAL STREET

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year 2003 Use Group Classification (s) A2 + B

Type of Construction _____

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC N/AIs the Structure mixed use? EXIST If yes, separated or non separated or non separated (section 302.3) _____Supervisory alarm System? EXIST Geotechnical/Soils report required? (See Section 1802.2) N/A

Structural Design Calculations

N/A Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (1603.11, 1807)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

	Design option utilized (1609.1.1, 1609.6)
	Basic wind speed (1809.3)
	Building category and wind importance Factor, I_p (table 1603.5, 1603.5)
	Wind exposure category (1605.4)
	External pressure coefficient (ASCE 7)
	Component and cladding pressures (1609.1.1, 1609.6.2.2)
	Main force wind pressures (1603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

	Design option utilized (1614.1)
	Seismic use group ("Category")
	Spectral response coefficients, S_s & S_1 (1617.1)
	Site class (1615.1.5)

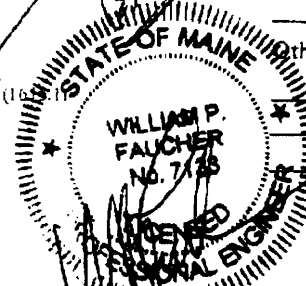
	Live load reduction
	Roof live loads (1603.1.2, 1607.11)
	Roof snow loads (1603.7.3, 1608)
	Ground snow load, P_g (1608.2)
	If $P_g > 10$ psf, flat-roof snow load, P_f
	If $P_g > 10$ psf, snow exposure factor, C_e
	If $P_g > 10$ psf, snow load importance factor, I_s
	Roof thermal factor, C_t (1608.4)
	Sloped roof snowload, P_s (1608.4)
	Seismic design category (1616.3)
	Basic seismic force resisting system (1617.6.2)
	Response modification coefficient, R , and
	deflection amplification factor, C_d (1617.6.2)
	Analysis procedure (1616.6, 1617.5)
	Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

	Flood Hazard area (1612.3)
	Elevation of structure

Other loads

	Concentrated loads (1607.4)
	Partition loads (1607.5)
	Misc. loads (Table 1607.6, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)





Certificate of Design

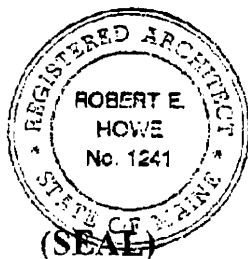
Date: 3/6/09

From: HKTA / ARCHITECTS

These plans and / or specifications covering construction work on:

SECOND FLOOR BATHROOMS - ADA UPGRADES

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.



Signature: Robert E. Howe

Title: PRESIDENT

Firm: HKTA / ARCHITECT

Address: 482 CONGRESS STREET
PORTLAND, ME 04101

Phone: 774-6016

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



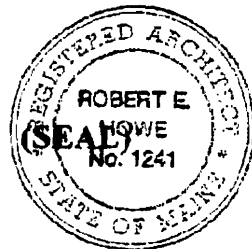
Accessibility Building Code Certificate

Designer: HKTA / ARCHITECTS

Address of Project: CUMBERLAND COUNTY COURT HOUSE
142 FEDERAL STREET

Nature of Project: ADA RESTROOMS UPGRADE -
SECOND FLOOR

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature: Robert E. Howe

Title: HKTA - PRESIDENT

Firm: HKTA / ARCHITECT

Address: 482 CONGRESS STR.
PORTLAND, ME 04101

Phone: 774-6016

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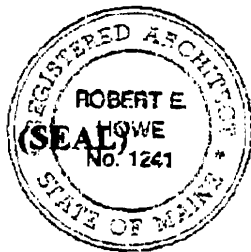
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Mar 06 09 01:37p

HKTA Architects Inc.

207-774-9128

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HKTA / ARCHITECTS

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Job Name:

ADA RESTROOMS UPGRADE - SECOND FLOOR

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CUMBERLAND COUNTY COURTHOUSE
142 FEDERAL STREET

2003 International Building Code

Construction project was designed to the building code criteria listed below.

Building Code & Year 2003 Use Group Classification (s) A3 & B

Type of Construction _____

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC N/AIs the Structure mixed use? EXIST If yes, separated or non separated or non separated (section 302.3) _____Supervisory alarm System? EXIST Geotechnical/Soils report required? (See Section 1802.2) N/A

Structural Design Calculations

N/A

Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

	Design option utilized (1609.1.1, 1609.2)
	Basic wind speed (1809.3)
	Building category and wind importance Factor, I_w (table 1604.5, 1609.5)
	Wind exposure category (1609.4)
	Internal pressure coefficient (ASCE 7)
	Component and cladding pressures (1609.1.1, 1609.6.2.2)
	Main force wind pressures (1603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

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	Site class (1615.1.5)

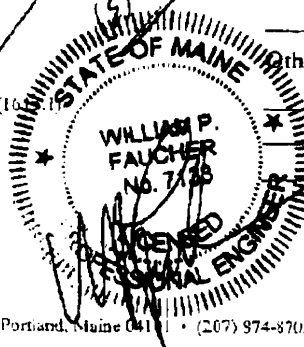
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	Ground snow load, P_g (1608.2)
	If $P_g > 10$ psf, flat-roof snow load P_f
	If $P_g > 10$ psf, snow exposure factor, C_e
	If $P_g > 10$ psf, snow load importance factor, I_s
	Roof thermal factor, C_t (1608.4)
	Sloped roof snowload, P_s (1608.4)
	Seismic design category (1616.3)
	Basic seismic force resisting system (1617.6.2)
	Response modification coefficient, R , and deflection amplification factor, C_d (1617.6.2)
	Analysis procedure (1616.6, 1617.5)
	Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

	Flood Hazard area (1612.3)
	Elevation of structure

Other loads

	Concentrated loads (1607.4)
	Partition loads (1607.5)
	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



REQUEST FOR BIDS

CUMBERLAND COUNTY

CCCH – Bathroom Renovations

BID CLOSE: 2:00PM, Friday, March 6 2009.

The Cumberland County Commissioners are requesting bids for bathroom renovations for ADA compliance located at the Cumberland County Courthouse, 142 Federal Street, Portland, ME. A mandatory walk-thru is required in order to bid. Please see the attached specifications and prints for complete requirements for this project.

TOTAL COST: ^{\$} 31,150.00

3/4/09 - Addendum #1 Included + Reviewed

COMPANY NAME & ADDRESS: Doten's Construction, Inc.
175 South Freeport Rd
Freeport, ME 04032

CONTACT PERSON: Mike Doten PHONE: 865-4412

Cumberland County is exempt from all federal, state and local taxes.

Please Submit Bids to:
County of Cumberland
Facilities Department
142 Federal Street
Portland, ME 04101

All bids must be in a sealed envelope clearly marked "**CCCH – ADA Bathroom Renovations**". Bids will be awarded at the next regularly scheduled Commissioners Meeting.

The Cumberland County Commissioners, reserve the right to accept or reject any or all bids, and at their discretion, waive all formalities.

CUMBERLAND COUNTY COURTHOUSE

ADA RESTROOM UPGRADES

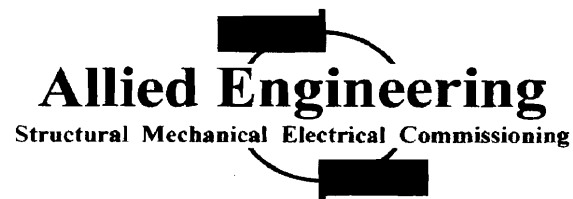
PORTLAND, MAINE

Issued for Construction

February 20, 2009

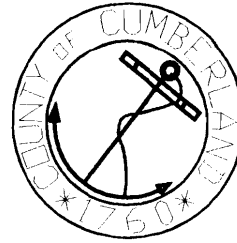
AEI Project No. 09-005

By:



160 Veranda Street
Portland, ME 04103

T 207.221.2260
F 207.221.2266
Web: www.allied-eng.com



CUMBERLAND COUNTY FACILITIES DEPARTMENT

**142 Federal Street
Portland, ME 04101
(207) 871-8293 - Fax: (207) 871-8377**

Bruce D. Tarbox, Facilities Manager

March 4, 2009

**CUMBERLAND COUNTY
BATHROOM RENOVATIONS**

REQUEST:

This package contains the necessary specifications and drawings for submittal of cost proposals for bathroom renovations (upgrade) to make them ADA compliant. The bathroom is located at the Cumberland County Courthouse, 142 Federal Street, Portland, ME. A **mandatory** walk thru is required in-order to bid

SCOPE OF WORK:

- Review all drawings and documents presented
- Identify and present any issues with project bid
- Although the working area is available, the remainder of the building is occupied 8:00am-4:30pm therefore, major noises, smells can be cause to shut the project down.
- Project can be worked on 24/7 as long as adhering to policy.
- If awarded contract, must be able to attend a pre-construction meeting @ 9:00am March 27, 2009.

Bids will be due: **Friday, March 6, 2009 @ 2:00PM**

The Cumberland County Commissioners reserve the right to accept or reject any and all bids, and at their discretion, waive all formalities.

REQUEST FOR BIDS
CUMBERLAND COUNTY
CCCH – Bathroom Renovations

BID CLOSE: 2:00PM, Friday, March 6 2009.

The Cumberland County Commissioners are requesting bids for bathroom renovations for ADA compliance located at the Cumberland County Courthouse, 142 Federal Street, Portland, ME. A mandatory walk-thru is required in order to bid. Please see the attached specifications and prints for complete requirements for this project.

TOTAL COST: _____

COMPANY NAME & ADDRESS: _____

CONTACT PERSON: _____ **PHONE:** _____

Cumberland County is exempt from all federal, state and local taxes.

Please Submit Bids to:
County of Cumberland
Facilities Department
142 Federal Street
Portland, ME 04101

All bids must be in a sealed envelope clearly marked “**CCCH – ADA Bathroom Renovations**”. Bids will be awarded at the next regularly scheduled Commissioners Meeting.

The Cumberland County Commissioners, reserve the right to accept or reject any or all bids, and at their discretion, waive all formalities.

Table of Contents

Division	Section Title
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AIA DOCUMENT A105 - 2007

DIVISION 1 - GENERAL REQUIREMENTS

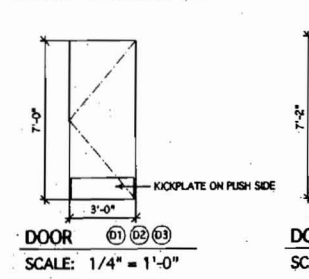
01010	SUMMARY OF WORK
01250	CONTRACT MODIFICATION PROCEDURES
01290	PAYMENT PROCEDURES
01330	SUBMITTAL PROCEDURES
01731	CUTTING AND PATCHING
01732	SELECTIVE DEMOLITION
01770	CLOSEOUT PROCEDURES

DRAWINGS

	TITLE SHEET
A-101	TOILET ROOM LAYOUT
PL-000	PLUMBING AND MECHANICAL ABBREVIATIONS AND LEGENDS
PL-100	PLUMBING AND MECHANICAL PLANS, SCHEDULES AND DETAILS
PL-500	PLUMBING AND MECHANICAL SPECIFICATIONS
E-100	ELECTRICAL PLAN, LEGEND, NOTES, RISER AND SCHEDULES

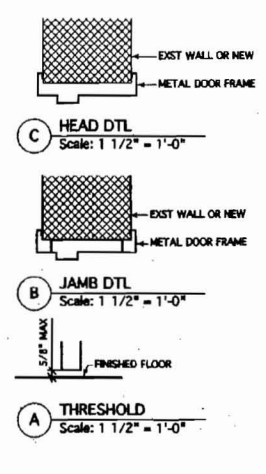
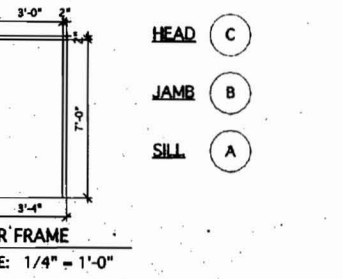
DOOR
 MANUFACTURERS: ALGOMA HARDWOODS, MOHAWK, EGERS
 MATERIAL: FLUSH WOOD INTERIOR VENEER FACE, 5 PLY
 PARTICLE BOARD CORE, PREMIUM ROTARY CUT RED OAK
 FINISH: FACTORY TRANSPARENT FINISH, MATCH EXIST STAIN

HARDWARE
 EACH DOOR TO RECEIVE:
 HINGES: 3 EACH HAGER BB1279 4 1/2" x 4 1/2" x 652
 LOCKSET: 1 EACH SCHLAGE A553P SAT 526
 CLOSER: 1 EACH LCN 4010 SERIES
 FLOOR STOP: 1 EACH HAGER 2418 x USC6D
 KNOCKPLATES: 1 EACH HAGER 1935 8"x2" LW 628
 SILENCERS: 3 EACH HAGER 307D RBR



FRAME
 MANUFACTURERS: CEDD, CURRIES, STEELCRAFT
 MATERIAL: 16 GA. HOLLOW METAL KNOCK-DOWN (KD)
 FINISH: PAINT

REMARKS
 SIGN PACKAGE: 3 "TOILET"
 CORRESPONDING SIGNAGE IN GRADE TWO BRILLE PER ADA
 SIGNS BY WELCH ARCHITECTURAL SIGNAGE, MOHAWK SIGN SYSTEMS.
 SIGNS INSTALLED BY GENERAL CONTRACTOR PER ADA REQUIREMENTS.



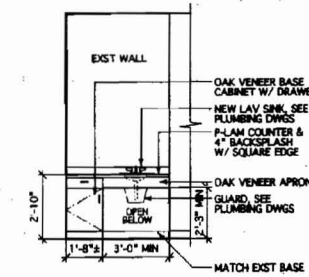
FINISHES

- GYPSUM WALLBOARD: GYPSUM PANELS COMPLYING WITH ASTM D3273, WITH INORGANIC GLASS FIBER MAT EMBEDDED INTO THE SIDE OF A GYPSUM CORE. ASTM 117, ASTM 630, "DENSARMOR PLUS" BY G-P GYPSUM. THICKNESS 5/8" THICK.
- SUSPENDED ACOUSTICAL TILE CEILING: FIBERGLASS ACOUSTICAL PANELS, ARMSTRONG PAINTED NUBBY NO. 3200 OR EQUAL. TEXTURE FINE, COLOR WHITE, SQUARE TRIANGULAR EDGE 1" THICK BY 24 BY 24 INCHES. ANTIMICROBIAL TREATMENT, NRC 0.95 MIN.
- METAL SUSPENSION SYSTEM: PRELUDE 15/16" EXPOSED TEE SYSTEM BY ARMSTRONG WORLD INDUSTRIES, INC. OR EQUAL, HIGH HUMIDITY FINISH, COLOR WHITE. HANGER WIRE ZINC COATED CARBON STEEL NOT LESS THAN 0.105 INCH DIAMETER.
- VINYL COMPOSITION TILE: ARMSTRONGS WORLD INDUSTRIES IMPERIAL TEXTURE STANDARD EXCELON OR EQUAL, COLOR AND PATTERN TO MATCH THAT OF EXISTING TOILET ROOM, CLASS 2 (THROUGH-PATTERN), STATIC COEFFICIENT OF FRICTION 0.6, THICKNESS 1/8 INCH, SIZE 12 BY 12 INCHES. RESILIENT ACCESSORIES: VINYL BASE COMPLYING WITH FS SS-14-40, TYPE II BY ARMSTRONGS WORLD INDUSTRIES OR EQUAL, PROVIDE FULL RANGE OF COLORS AND PATTERNS. STYLE: COVE WITH TOP-SET TOE, MINIMUM THICKNESS 1/8 INCH, HEIGHT 4 INCHES.
- INSTALLATION ACCESSORIES: WATERPROOF ADHESIVE TYPE RECOMMENDED BY MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS.
- PLASTIC LAMINATE: HIGH PRESSURE NEMA LD 3, GRADE AS REQUIRED BY WOODWORK QUALITY STANDARD.
- MANUFACTURERS: FORMICA CORP., LAMIN-ART, NEVAMAK DECORATIVE SURFACES, PRONITE DECORATIVE SURFACES, WILSONART INTL.
- WOOD DRAWER CABINET: CONTRACTOR SUPPLIED OAK VENEER SOLID HARDWOOD WITH 4 INCH WIRE PULLS, 5 KNUCKLE HINGES, 100 POUND DRAWER SLIDES.
- EXPOSED HARDWARE FINISHES: SATIN CHROMIUM PLATED, SATIN STAINLESS STEEL.
- PAINT MANUFACTURERS: CALIFORNIA PAINT CO. (CAL), BENJAMIN MOORE & CO. (MOORE), ICI DULUX PAINTS (ICI), SHERWIN WILLIAMS CO. (SW)

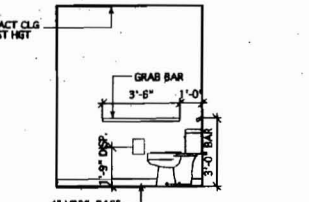
SCHEDULE: H-BUILD PRIMER FOR MOLD RESISTANT GYPSUM BOARD
 CAL: HIDE-A-SPRAY, 91-20
 ICI: 1040-1200, PREP & PRIME HIGH BUILD FILL & SEAL
 SW: PREPRITE HIGH BUILD INTERIOR LATEX PRIMER/SURFACER B28W601
 LOW-LUSTER ACRYLIC-ENAMEL WALL FINISH: 2 FINISH COATS OVER PRIMER (LOW VOC)

PRIMER:
 CAL: PROPRIME UNDERCOATER PRIMER-SEALER S4500
 MOORE: SUPER SPEC LATEX ENAMEL UNDERCOATER & PRIMER SEALER #253
 ICI: 1000-1200 DULUX ULTRA INTERIOR LATEX WALL PRIMER
 SW: PREPRITE 200 LATEX PRIMER B28W200 SERIES.
 FIRST AND SECOND COATS:

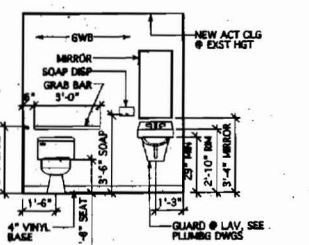
CAL: PREMIUM 100% ACRYLIC LATEX EGGSHELL 5310x
 MOORE: SUPER SPEC LATEX EGGSHELL ENAMEL #247
 ICI: 1412-XXXX ULTRA-HIDE LATEX EGGSHELL OR 1414-XXXX ULTRA-HIDE SATIN LATEX ENAMEL
 SW: PROMAR 200 INTERIOR LATEX EGGSHELL B20W200 SERIES.



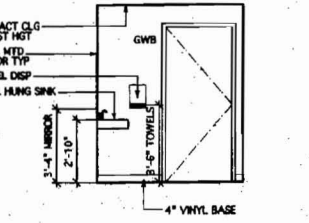
5 LAV COUNTER ELEVATION
 Scale: 1/4" = 1'-0"



4 TOILET ELEVATION
 Scale: 1/4" = 1'-0"



3 TOILET ELEVATION
 Scale: 1/4" = 1'-0"



2 TOILET ELEVATION
 Scale: 1/4" = 1'-0"

GENERAL NOTES

- THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. IF DISCREPANCIES OR CONFLICTS ARE FOUND, NOTIFY THE ARCHITECT IN WRITING FOR RESOLUTION PRIOR TO CONSTRUCTION.
- VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK. COORDINATE ALL SITE, MECHANICAL AND ELECTRICAL REQUIREMENTS.
- THE FINISHED WORK SHALL BE FIRM, WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCES WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCRIBED. THE FINISH WORK SHALL HAVE NO EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
- CONTRACTORS ARE RESPONSIBLE FOR ALL PERMITS, GOVERNMENTAL FEES, LICENCES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.

FINISH LEGEND

CIA	2x2 scored acoustical tile
N	Existing to remain
PCB	Pld gypsum wall board
VB	Vinyl Base - 4"
VCT	Vinyl composition tile

ROOM FINISH SCHEDULE

Room Number	Room Name	Floor	Wall	East	West	North	South	Notes
101	TOILET	VCT	VB	N	PGB	PGB	PGB	PAINT EXIST WALLS, MATCH EXIST COLOR
102	TOILET	VCT	VB	N	PGB	PGB	PGB	PAINT EXIST WALLS, MATCH EXIST COLOR
103	TOILET	VCT	VB	N	PGB	PGB	PGB	PAINT EXIST WALLS, MATCH EXIST COLOR

BATHROOM NOTES

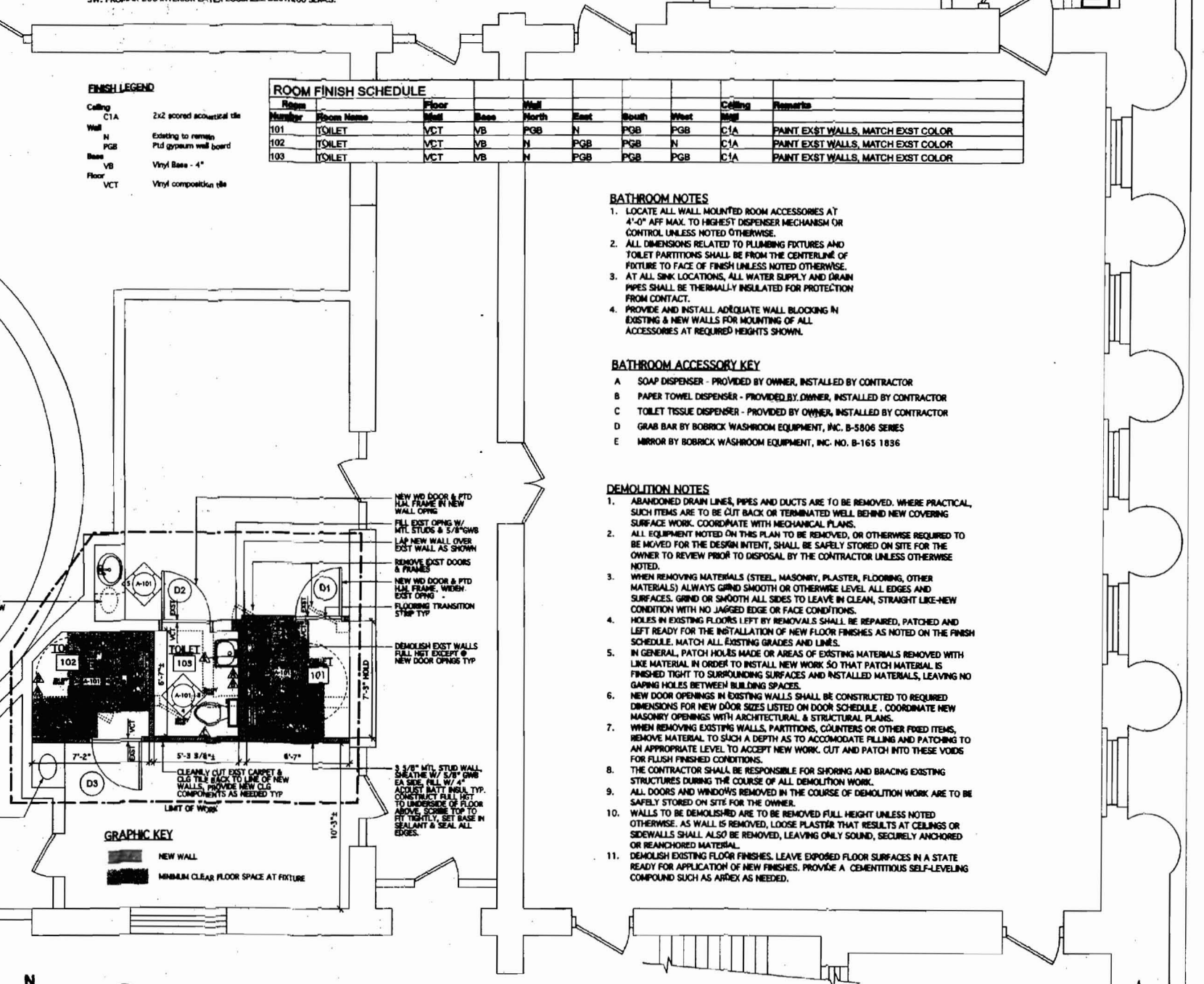
- LOCATE ALL WALL MOUNTED ROOM ACCESSORIES AT 4'-0" AFF MAX. TO HIGHEST DISPENSER MECHANISM OR CONTROL UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS RELATED TO PLUMBING FIXTURES AND TOILET PARTITIONS SHALL BE FROM THE CENTERLINE OF FIXTURE TO FACE OF FINISH UNLESS NOTED OTHERWISE.
- AT ALL SINK LOCATIONS, ALL WATER SUPPLY AND DRAIN PIPES SHALL BE THERMALLY INSULATED FOR PROTECTION FROM CONTACT.
- PROVIDE AND INSTALL ADEQUATE WALL BLOCKING IN EXISTING & NEW WALLS FOR MOUNTING OF ALL ACCESSORIES AT REQUIRED HEIGHTS SHOWN.

BATHROOM ACCESSORY KEY

- A SOAP DISPENSER - PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
- B PAPER TOWEL DISPENSER - PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
- C TOILET TISSUE DISPENSER - PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
- D GRAB BAR BY BOBRICK WASHROOM EQUIPMENT, INC. B-5806 SERIES
- E MIRROR BY BOBRICK WASHROOM EQUIPMENT, INC. NO. B-165 1836

DEMOLITION NOTES

- ABANDONED DRAIN LINES, PIPES AND DUCTS ARE TO BE REMOVED, WHERE PRACTICAL, SUCH ITEMS ARE TO BE CUT BACK OR TERMINATED WELL BEHIND NEW COVERING SURFACE WORK. COORDINATE WITH MECHANICAL PLANS.
- ALL EQUIPMENT NOTED ON THIS PLAN TO BE REMOVED, OR OTHERWISE REQUIRED TO BE MOVED FOR THE DESIGN INTENT, SHALL BE SAFELY STORED ON SITE FOR THE OWNER TO REVIEW PRIOR TO DISPOSAL BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- WHEN REMOVING MATERIALS (STEEL, MASONRY, PLASTER, FLOORING, OTHER MATERIALS) ALWAYS GRIND SMOOTH OR OTHERWISE LEVEL ALL EDGES AND SURFACES. GRIND OR SMOOTH ALL SIDES TO LEAVE IN CLEAN, STRAIGHT LIKE-NEW CONDITION WITH NO JAGGED EDGE OR FACE CONDITIONS.
- HOLES IN EXISTING FLOORS LEFT BY REMOVALS SHALL BE REPAIRED, PATCHED AND LEFT READY FOR THE INSTALLATION OF NEW FLOOR FINISHES AS NOTED ON THE FINISH SCHEDULE. MATCH ALL EXISTING GRADES AND LINES.
- IN GENERAL, PATCH HOLES MADE OR AREAS OF EXISTING MATERIALS REMOVED WITH LIKE MATERIAL IN ORDER TO INSTALL NEW WORK SO THAT PATCH MATERIAL IS FINISHED TIGHT TO SURROUNDING SURFACES AND INSTALLED MATERIALS, LEAVING NO GAPING HOLES BETWEEN BUILDING SPACES.
- NEW DOOR OPENINGS IN EXISTING WALLS SHALL BE CONSTRUCTED TO REQUIRED DIMENSIONS FOR NEW DOOR SIZES LISTED ON DOOR SCHEDULE. COORDINATE NEW MASONRY OPENINGS WITH ARCHITECTURAL & STRUCTURAL PLANS.
- WHEN REMOVING EXISTING WALLS, PARTITIONS, COUNTERS OR OTHER FIXED ITEMS, REMOVE MATERIAL TO SUCH A DEPTH AS TO ACCOMMODATE FILLING AND PATCHING TO AN APPROPRIATE LEVEL TO ACCEPT NEW WORK. CUT AND PATCH INTO THESE VOIDS FOR FLUSH FINISHED CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING EXISTING STRUCTURES DURING THE COURSE OF ALL DEMOLITION WORK.
- ALL DOORS AND WINDOWS REMOVED IN THE COURSE OF DEMOLITION WORK ARE TO BE SAFELY STORED ON SITE FOR THE OWNER.
- WALLS TO BE DEMOLISHED ARE TO BE REMOVED FULL HEIGHT UNLESS NOTED OTHERWISE. AS WALL IS REMOVED, LOOSE PLASTER THAT RESULTS AT CEILING OR SIDEWALLS SHALL ALSO BE REMOVED, LEAVING ONLY SOUND, SECURELY ANCHORED OR REANCHORED MATERIAL.
- DEMOLISH EXISTING FLOOR FINISHES. LEAVE EXPOSED FLOOR SURFACES IN A STATE READY FOR APPLICATION OF NEW FINISHES. PROVIDE A CEMENTITIOUS SELF-LEVELING COMPOUND SUCH AS AIREX AS NEEDED.

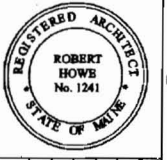


1 FLOOR PLAN - TOILET RENOVATION
 Scale: 1/4" = 1'-0"

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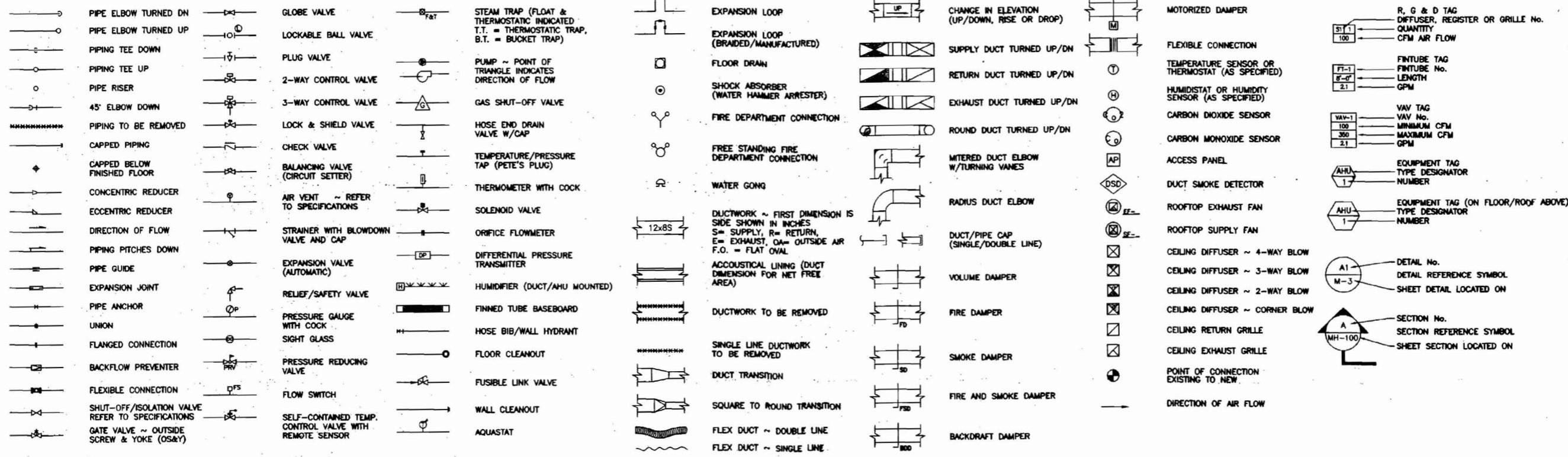


REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Drawn By: XXX
 Checked By: XXX
 Project Mgr: WFF
 Project No: 09005
 Date: 08-20-2009
 Scale: 0

TOILET ROOM LAYOUT - SECOND FLOOR
 ADA RESTROOM UPGRADE
 CUMBERLAND COUNTY COURTHOUSE
 142 FEDERAL STREET, PORTLAND, MAINE



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NO.	REVISIONS	DATE	BY	NUMBER	DESCRIPTION

Date: 02-20-2009
Drawn By: SQL
Checked By: ASD
Project Mgr: MFF
Project No: 09005
Code File: 09005P.DWG
Graphic Scale: 0

PLUMBING AND MECHANICAL ABBREVIATIONS AND LEGEND
ADA RESTROOM UPGRADE
CUMBERLAND COUNTY COURTHOUSE
142 FEDERAL STREET, PORTLAND, MAINE

NOTE
ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING AND HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

D1 SYMBOLS LEGEND

AW	ACID WASTE	LPR	LOW-PRESSURE CONDENSATE
ATV	AIR RELIEF	LPS	LOW-PRESSURE STEAM
BBD	BOILER BLOWDOWN	MA	MEDICAL AIR
BF	BOILER FEED	MPR	MEDIUM-PRESSURE CONDENSATE
C	CONDENSATE (HVAC DRAIN PAN)	MPS	MEDIUM-PRESSURE STEAM
C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	MU	MAKEUP WATER
CA	COMPRESSED AIR	N2	NITROGEN
CHWR	CHILLED WATER RETURN	NG	NATURAL GAS
CHWS	CHILLED WATER SUPPLY	NO	NITROUS OXIDE
CWS	CONDENSER WATER SUPPLY	NPW	NON-POTABLE WATER
CWR	CONDENSER WATER RETURN	OX	OXYGEN
	DOMESTIC COLD WATER	PC	PUMPED CONDENSATE
	DOMESTIC HOT WATER	PCWR	PROCESSED COLD WATER RETURN
	DOMESTIC WATER RECIRC.	PCWS	PROCESSED COLD WATER SUPPLY
D	DRAIN	RD	REFRIGERANT DISCHARGE
FM	PUMP FORCE MAIN	RL	REFRIGERANT LIQUID
FOF	FUEL OIL FILL	RS	REFRIGERANT SUCTION
FOR	FUEL OIL RETURN	RW	RAIN WATER ABOVE FLOOR
FOS	FUEL OIL SUPPLY	RW	RAIN WATER BELOW GRADE
FOV	FUEL OIL TANK VENT		SANITARY SOIL WASTE (ABOVE FLOOR)
FW	FEEDWATER		SANITARY SOIL WASTE (BELOW FLOOR)
GR	GLYCOL RETURN		SANITARY SOIL VENT (ABOVE FLOOR)
GS	GLYCOL SUPPLY		SANITARY SOIL VENT (BELOW FLOOR)
H	HUMIDIFICATION LINE		SANITARY WASTE & VENT COMBINATION
H2	HYDROGEN GAS	SP	SPRINKLER MAIN PIPING
HPWR	HEAT PUMP WATER RETURN	SWR	SOLAR WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY	SWS	SOLAR WATER SUPPLY
HPC	HIGH-PRESSURE CONDENSATE	TP	TRAP PRIMER PIPING ABOVE GRADE
HPS	HIGH-PRESSURE STEAM	TP	TRAP PRIMER PIPING BELOW GRADE
HTWR	HIGH-TEMP. HOT WATER RETURN	TWR	TEMPERED RETURN WATER
HWR	HOT WATER RETURN	TWS	TEMPERED SUPPLY WATER
HWS	HOT WATER SUPPLY	VAC	VACUUM (AIR)
IND	INDUSTRIAL WASTE	VC	VACUUM CLEANING (HOUSE)
IW	INDIRECT WASTE	VPD	VACUUM PUMP DISCHARGE
LN	LIQUID NITROGEN		
LOX	LIQUID OXYGEN		
LPC	LOW-PRESSURE CONDENSATE		
LP	LIQUID PETROLEUM GAS		

AAV	AUTOMATIC AIR VENT	DN	DOWN	LP	LIQUID PETROLEUM GAS	TP	TRAP PRIMER
AC	ABOVE CEILING	DS	DOWNSPOUT	LPR	LOW PRESSURE STEAM RETURN	TSP	TOTAL STATIC PRESSURE
ACC	AIR COOLED CONDENSER	DT	DROP AND TRANSITION	LPS	LOW PRESSURE STEAM SUPPLY	TTS	TIGHT TO STEEL
ACU	AIR CONDITIONING UNIT	DV	DRAIN VALVE	MAX	MAXIMUM	TV	TURNING VANE
ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	MBH	1000 BTU/HR.	TW	TEMPERED WATER
AD	ACCESS DOOR	EA	EXHAUST AIR	MFR	MANUFACTURER	TYP	TYPICAL
AE	ACID EXHAUST	EF	EXHAUST FAN	MH	MINIMUM	UH	UNIT HEATER
AW	ACID WASTE	EG	EXHAUST GRILLE	MOD	MOTOR OPERATED DAMPER	UC	UP IN CHASE
AFF, A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MPG	MEDIUM PRESSURE GAS	UW	UP IN WALL
AHU	AIR HANDLING UNIT	ELONG	ELONGATE	MPY	MULTI-PURPOSE VALVE	UV	UNIT VENTILATOR
AP	ACCESS PANEL	ENC	ENCLOSURE	MTD	MOUNTED	V	VENT
APPROX	APPROXIMATE; APPROXIMATELY	ER	EXHAUST REGISTER	MTC	MOUNTING	VAC	VACUUM
APMR	AS PER MFR'S RECOMMENDATIONS	ESP	EXTERNAL STATIC PRESSURE	MUA	MAKE UP AIR	VB	VACUUM BREAKER
ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	N.C.	NORMALLY CLOSED	VCF	VALVE & CAP FOR FUTURE
AV	AIR VENT	(E)	EXISTING	N.O.	NORMALLY OPEN	VD	VOLUME DAMPER - MANUAL
BC	BALANCING COCK	F & T	FLOAT AND THERMOSTATIC	NIC	NOT IN CONTRACT	VLV	VALVE
BDD	BACKDRAFT DAMPER	FBO	FURNISHED BY OTHERS	NPT	NATIONAL PIPE THREAD	VS	VENT STACK
BG	BLAST GATE	FBP	FACE AND BYPASS	NTS	NOT TO SCALE	VTR	VENT THROUGH ROOF
BF	BARRIER FREE	FC	FLEXIBLE CONNECTION	OA	OUTSIDE AIR	W	WASTE
BFP	BACKFLOW PREVENTER	FD	FLOOR CLEANOUT	OBDD	OPPOSED BLADE DAMPER	W/	WITH
BHP	BRAKE HORSEPOWER	FD-#	FLOOR DRAIN TAG	OD	OUTSIDE DIAMETER	WB	WET BULB TEMPERATURE, °F
BLDG	BUILDING	FD	FIRE DAMPER	OED	OPEN ENDED DUCT	WCO	WALL CLEANOUT
BOD	BOTTOM OF DUCT	FIN	FINISH	P-#	PLUMBING FIXTURE TAG	WH	WATER HEATER
B.T.U.	BRITISH THERMAL UNIT	FL	FLOOR	PD	PUMPED DISCHARGE	WHYD	WALL HYDRANT
C, CONV.	CONVECTOR	FL	FLOOR	PRS	PRESSURE REDUCING STATION	NTS	NOT TO SCALE
CCW	COUNTER CLOCKWISE	FTC	FOOTING	PRV	PRESSURE REDUCING VALVE	#	DIAMETER
CCW	COUNTER CLOCKWISE	FTR	FINNED TUBE RADIATION	RA	RETURN AIR	@	AT
CF	CAPPED FOR FUTURE	FS	FLOW SWITCH	RD	ROOF DRAIN	&	AND
CFM	CUBIC FEET PER MINUTE	FM	FORCE MAIN	REC	RECOMMENDATION	%	PERCENT
CLG	CEILING	GC	GENERAL CONTRACTOR	REG	REGULAR		
CO	CLEANOUT	GPM	GALLONS PER MINUTE	RF	RETURN FAN		
CM	CONSTRUCTION MANAGER	GV	GRAVITY VENTILATOR	RG	RETURN GRILLE		
CNTR	COUNTER; COUNTERTOP	H	HUMIDIFIER	RHC	REHEAT COIL		
CONN	CONNECT; CONNECTION	HB	HOSE BIB	RM	ROOM		
CONT	CONTINUE; CONTINUATION	HG, HDC	HANDICAP ACCESS	RPZ	REDUCED PRESSURE BFP		
COORD	COORDINATE	HGT, HT.	HEIGHT	RR	RETURN REGISTER		
CORR	CORRIDOR	HP	HEAT PUMP	RV	RELIEF VALVE		
CR	CHEMICAL RESISTING	HRU	HEAT RECOVERY UNIT	RW	RAIN WATER		
CT	COOLING TOWER	HTR	HEATER	S	SUPPLY AIR		
CTE	CONNECT TO EXISTING	H & V	HEATING AND VENTILATION	SA-"	SHOCK ABSORBER OF PDI SIZE ("") AS INDICATED		
CTR	CENTER	HVAC	HEATING, VENTILATING, & AIR COND.	SCV	SELF CONTAINED VALVE		
CTRNL	CENTERLINE	HW	HOT WATER	SD	SMOKE DAMPER		
CJ	COPPER	HWR	HOT WATER RETURN	SF	SUPPLY FAN		
CUH	CABINET UNIT HEATER	HWS	HOT WATER SUPPLY	SG	SUPPLY GRILLE		
C.V.	CONTROL VALVE	HX	HEAT EXCHANGER	SGL	SINGLE		
CW	COLD WATER/CLOCKWISE	ID	INSIDE DIAMETER	SHT	SHEET		
DB	DRY BULB TEMPERATURE, °F	IN WG	INCHES WATER GAUGE	SPLR	SPRINKLER		
DC	DOUBLE CONTAINED	INCL	INCLUDING	SQ FT; S. F.	SQUARE FEET		
DDC	DIRECT DIGITAL CONTROL	INVT	INVERT ELEVATION	SR	SUPPLY REGISTER		
DET	DETAIL	IPS	IRON PIPE SIZE	S/O	SHUT OFF		
DIA	DIAMETER	IPS	KITCHEN EQUIPMENT NUMBER	S.S.	STAINLESS STEEL		
DIC	DOWN IN CHASE	LD	LINEAR DIFFUSER	TG	TRANSFER GRILLE		
DIW	DOWN IN WALL	LE-#	SCIENCE LAB EQUIPMENT NUMBER	TOD	TOP OF DUCT		

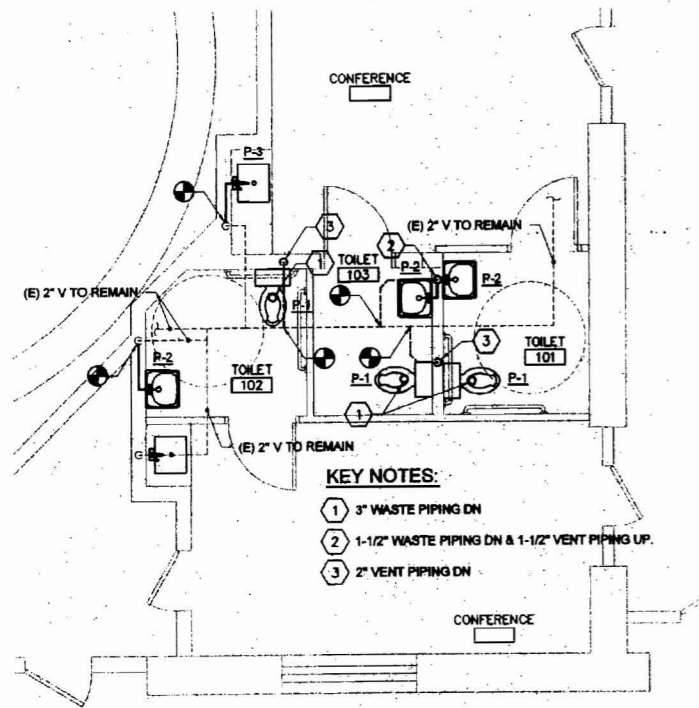
A1 PIPING LINETYPE LEGEND

NONE	1	2	3	4	5	6	7

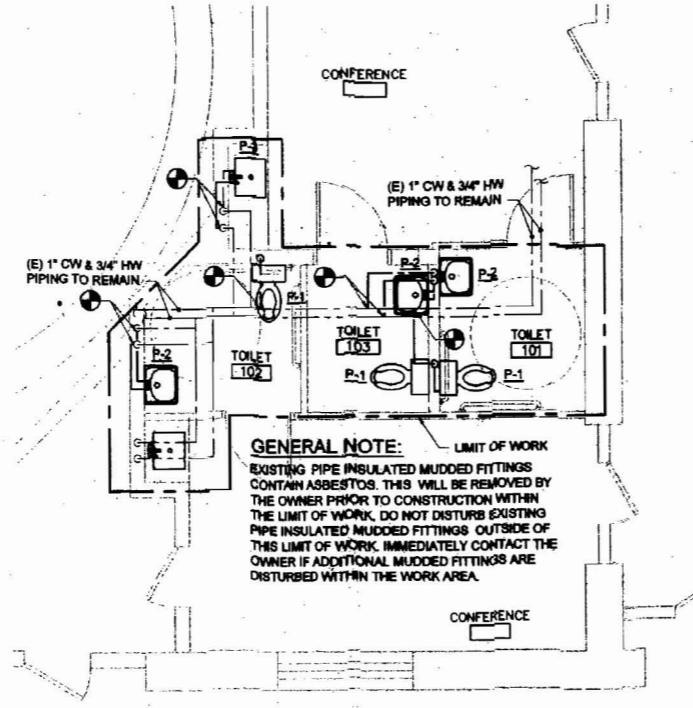
A4 ABBREVIATIONS

NONE	1	2	3	4	5	6	7

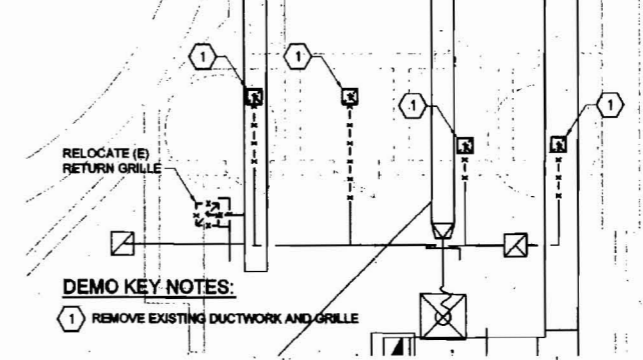
PL-000



- KEY NOTES:**
- 1 3" WASTE PIPING DN
 - 2 1-1/2" WASTE PIPING DN & 1-1/2" VENT PIPING UP.
 - 3 2" VENT PIPING DN



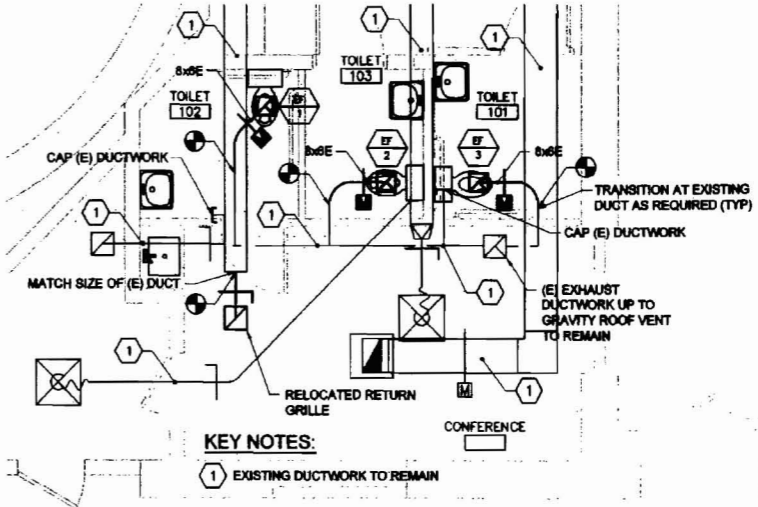
GENERAL NOTE: LIMIT OF WORK
 EXISTING PIPE INSULATED MUDDIED FITTINGS CONTAIN ASBESTOS. THIS WILL BE REMOVED BY THE OWNER PRIOR TO CONSTRUCTION WITHIN THE LIMIT OF WORK. DO NOT DISTURB EXISTING PIPE INSULATED MUDDIED FITTINGS OUTSIDE OF THIS LIMIT OF WORK. IMMEDIATELY CONTACT THE OWNER IF ADDITIONAL MUDDIED FITTINGS ARE DISTURBED WITHIN THE WORK AREA.



DEMO KEY NOTES:

- 1 REMOVE EXISTING DUCTWORK AND GRILLE

F7 MECHANICAL DEMO PLAN ~ SECOND FLOOR
 1/4" = 1'-0"



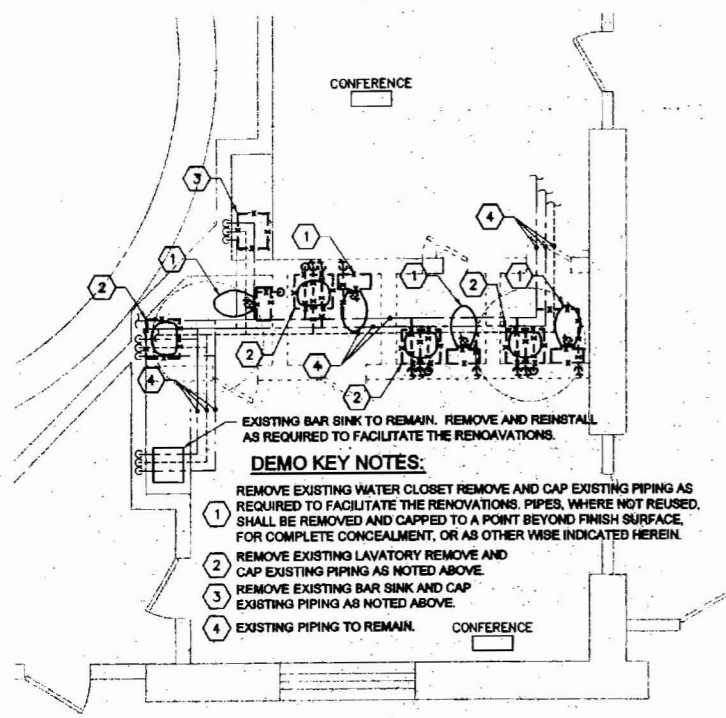
KEY NOTES:

- 1 EXISTING DUCTWORK TO REMAIN

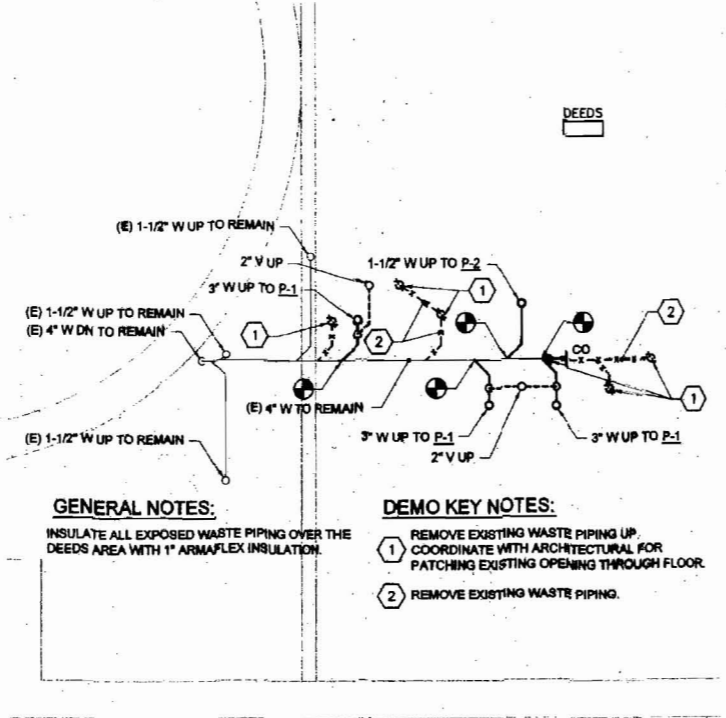
D7 MECHANICAL PLAN ~ SECOND FLOOR
 1/4" = 1'-0"

D1 PLUMBING SANITARY PLAN ~ SECOND FLOOR
 1/4" = 1'-0"

D4 PLUMBING DOMESTIC PLAN ~ SECOND FLOOR
 1/4" = 1'-0"



- EXISTING BAR SINK TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO FACILITATE THE RENOVATIONS.**
- DEMO KEY NOTES:**
- 1 REMOVE EXISTING WATER CLOSET REMOVE AND CAP EXISTING PIPING AS REQUIRED TO FACILITATE THE RENOVATIONS. PIPES, WHERE NOT REUSED, SHALL BE REMOVED AND CAPPED TO A POINT BEYOND FINISH SURFACE. FOR COMPLETE CONCEALMENT, OR AS OTHER WISE INDICATED HEREIN.
 - 2 REMOVE EXISTING LAVATORY REMOVE AND CAP EXISTING PIPING AS NOTED ABOVE.
 - 3 REMOVE EXISTING BAR SINK AND CAP EXISTING PIPING AS NOTED ABOVE.
 - 4 EXISTING PIPING TO REMAIN.



- GENERAL NOTES:**
- INSULATE ALL EXPOSED WASTE PIPING OVER THE DEEDS AREA WITH 1" ARMAFLEX INSULATION.
- DEMO KEY NOTES:**
- 1 REMOVE EXISTING WASTE PIPING UP. COORDINATE WITH ARCHITECTURAL FOR PATCHING EXISTING OPENING THROUGH FLOOR.
 - 2 REMOVE EXISTING WASTE PIPING.

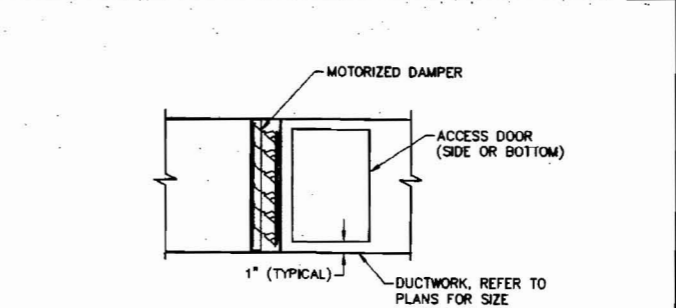
A1 PLUMBING DEMO PLAN ~ SECOND FLOOR
 1/4" = 1'-0"

A4 PLUMBING PLAN ~ FIRST FLOOR
 1/4" = 1'-0"

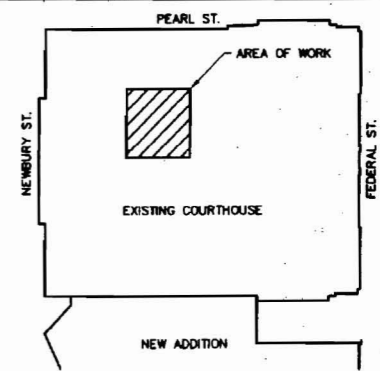
FAN SCHEDULE																	
TAG	SERVES	MANUFACTURER-MODEL	TYPE	DRIVE	CFM	SP (IN WC.)	MAX RPM	ELECTRICAL									
								MAX BHP	MOTOR WATTS	MOTOR SPEED	SPEED CONTROLLER	STARTER FURN BY	DISC. SWITCH FURN BY	VOLTS/PH	MAX SONES	WEIGHT (LBS.)	DAMPER
EF-1	TOILET 102	COOK-GC-144	CEILING	DIRECT	100	0.375	1100	-	96	-	YES	N/A	23	115/140	3.2	15	MOTORIZED
EF-2	TOILET 103	COOK-GC-144	CEILING	DIRECT	100	0.375	1100	-	96	-	YES	N/A	23	115/140	3.2	15	MOTORIZED
EF-3	TOILET 101	COOK-GC-144	CEILING	DIRECT	100	0.375	1100	-	96	-	YES	N/A	23	115/140	3.2	15	MOTORIZED

PLUMBING FIXTURE SCHEDULE					
TAG	DESCRIPTION	BRANCH SIZES			TRAP PRIMER NOTES
		CW	HW	WASTE	
P-1	WATER CLOSET - TANK TYPE	1/2"	1/2"	2"	
P-2	LAVATORY, WALL MOUNT - BARRIER FREE	1/2"	1/2"	1 1/2"	1 1/2"
P-3	BAR SINK - BARRIER FREE	1/2"	1/2"	1 1/2"	1 1/2"

B7 PLUMBING FIXTURE AND FAN ~ SCHEDULE
 NONE



A7 DETAIL ~ MOTORIZED DAMPER
 NONE



A9 KEY PLAN
 NONE

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REVISIONS			
NUMBER	DATE	BY	DESCRIPTION

Date: 02-20-2009
 Drawn By: SCL
 Checked By: ASD
 Project Mgr: WFF
 Project No: 08005
 Cad File: 08005P.DWG
 Graphic Scale: 0

PLUMBING AND MECHANICAL PLAN ~ SECOND FLOOR SCHEDULES & DETAILS
 ADA RESTROOM UPGRADE
 CUMBERLAND COUNTY COURTHOUSE
 142 FEDERAL STREET, PORTLAND, MAINE

PL-100

MECHANICAL INSULATION

- A. **Mineral Fiber Glass Pipe Insulation** shall be heavy density molded one piece; maximum temperature 1000°F. Thermal Conductivity (k value) of .21 at 75°F mean temperature, conforming to ASTM C 547; ASTM C 585; NFPA 90A and 90B; noncombustible. ASJ/SSL jacketing shall conform to ASTM C 1136, Type 1 (replacing HH-B-1(00B)); with a maximum vapor transmission rating of .02 perms.
- A. **Flexible Elastomeric:**
Basics-of-Design Product: Subject to compliance with requirements, provide Armacel LLC: AP Armaflex, or a comparable product by one of the following: Materials shall have a flame spread index of less than 25 and a smoke developed index of less than 50 when tested in accordance with ASTM E 84, latest revision. Materials shall have a maximum thermal conductivity of 0.27 Btu-in./h-ft²-°F at a 75°F mean temperature when tested in accordance with ASTM C 177 or ASTM C 518, latest revisions. Closed-cell, foam- or expanded-rubber materials containing an EPA-approved anti-microbial additive. Comply with ASTM C 534, Type I, Grade 1, for tubular materials and Type II, Grade 1, for sheet materials. Provide product recognized under Underwriters Laboratories "UL 94 - Plastic Component Classification" and listed in Factory Mutual "FM Approval Guide."
- B. **Prefabricated Thermal Insulating Fittings Covers** shall comply with ASTM C 450 for dimensions used in pre-forming insulation to cover valves, elbows, tees, and flanges.
- C. Utilize type 40 pipe insulation protection shields at each hanger, 12" shield length for 4" and smaller piping.
- D. **Mastics:** Materials recommended by insulation material manufacturer that are compatible with
- E. insulation materials, jackets, and substrates.
- F. **Return/Exhaust-air ducts within heated building envelope** need not be insulated.
- G. **Domestic hot water** shall be insulated with 1/2" thick mineral fiber pipe insulation, no vapor retarder shall be required.
- H. **Domestic cold water** shall be insulated with 1/2" thick mineral fiber pipe insulation, and shall include a vapor retarder.
- I. Waste piping where indicated shall be insulated with 1/2" flexible elastomeric.

DUCTWORK AND ACCESSORIES

- A. **Duct** shall be constructed of galvanized, sheet steel, normal service: Lock-forming quality, ASTM A 653, G60 or G90. Joint sealant/mastic shall be flexible, water-based, adhesive sealant designed for use in all pressure duct systems. After curing, it shall be resistant to ultraviolet light and shall prevent the entry of water, air and moisture into the duct system. Sealer shall be UL 723 and UL 181 listed and meet NFPA 90A requirements. Maximum 5 flame spread and 0 smoke developed (ASTM E-84 Tunnel Test) for mastic/sealers, resistant to mold, mildew and water, gray in color. Flange Gaskets shall be butyl rubber gasket complying with UL Standard 181 and 723 testing and meets MIL-C 18969B and TTS-S-001657. Building Attachments shall utilize concrete inserts, powder-actuated fasteners, or structural-steel fasteners appropriate for building materials. Hanger materials shall be sheet steel or round, threaded steel rod. Straps and rod sizes shall comply with SMACNA's "HVAC Duct Construction Standards-Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Hanger to duct attachments shall be via sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials. Fabricate ducts, elbows, transitions, offsets, branch connections, and other construction with sheet steel, according to SMACNA's "HVAC Duct Construction Standards-Metal and Flexible." Comply with requirements for metal thickness, reinforcing types and intervals, tie-rod applications, and joint types and intervals. Fabricate supply ducts of galvanized steel according to SMACNA's "HVAC Duct Construction Standards-Metal and Flexible" latest edition.
- B. **Fittings** per SMACNA acceptable, specific fittings requirements: Fig. 2-3 Rectangular Elbows: Type RE2 square throat with vanes or Type RE1 radius, Fig. 2-6 Branch Connections: 45-degree entry, 45-degree lead-in, bell-mouth (single diffuser supply only), Fig. 2-7 Offsets and Transitions.
- C. **Round ducts:** Concealed round ducts shall be longitudinal Grooved Seam Flat lock (RL-5 seam) at 2-inch wg construction.
- D. **Round joints** shall be interior slip coupling beaded at center and fastened to duct with screws shall be used to join ducts. Seal joint with an approved sealing compound, continuously applied around joint prior to assembling and after fastening, making certain that majority of sealant resides on interior of the joint.
- E. **90-Degree Tees and Laterals and Conical Tees:** Fabricate to comply with SMACNA's "HVAC Duct Construction Standards-Metal and Flexible," with metal thicknesses specified for longitudinal seam straight duct.
- F. **Diverging-Flow Fittings:** Fabricate with a reduced entrance to branch taps with no excess material projecting from body onto branch tap entrance.
- G. **Elbows:** Diameters 3 through 8 inches shall be two section die stamped, all others shall be gored construction, maximum 18 degree angle, with all seams continuously welded or standing seam. Coat galvanized areas of fittings damaged by welding with corrosion resistant aluminum paint or galvanized repair compound.
- H. **Manual volume dampers** shall be factory fabricated with required hardware and accessories. Stiffen damper blades for stability. Include locking device to hold single-blade dampers in a fixed position without vibration. Close duct penetrations for damper components to seal duct consistent with pressure class. Dampers shall include end bearings or other seals for ducts with axial full length of damper blades and bearings at both ends of operating shaft, opposed-blade design, standard leakage rating, with linkage outside airstream, and suitable for horizontal or vertical applications.
- I. **Duct access panels** shall be rated for 4" w.g. minimum operating pressure (SMACNA Seal Class A). Construct doors in accordance with Figure 2-10 of the 1995 SMACNA Manual, "HVAC Duct Construction Standards, Metal & Flexible" Second Edition. Manufacturer to provide an installed neoprene gasket around perimeter of access door for airtight seal.
- J. **Flexible ducts** shall comply with UL 181, Class I, Flame Spread: Less than 25 Smoke Developed: Less than 50, shall be certified by Greenguard Environmental Institute; independent testing of products for emissions of respirable particles and Volatile Organic Compounds (VOCs), including formaldehyde and other specific product-related pollutants, and shall be rated for 10" w.g. positive/1/2" negative pressure per UL-181. Flexible ducts shall be insulated via 1 1/2" glass fiber insulation with outer jacket and continuous inner liner of polyethylene film. Flexible duct shall utilize stainless-steel band with cadmium-plated hex screw to tighten band with a worm-gear action.
- K. **Static-Pressure Classifications:** Unless otherwise indicated, construct supply ducts for a minimum pressure class of 4" w.g. and exhaust ducts for 4" w.g. negative/4" w.g. positive pressure.
- L. **Seam And Joint Sealing:** Seal duct seams and joints according to the duct pressure class indicated and as described in SMACNA's "HVAC Duct Construction Standards-Metal and Flexible." Seal to SMACNA Class A; all joints, longitudinal and transverse seams, and connections in ductwork shall be securely fastened and sealed with duct sealant.

IN LINE CEILING VENTILATOR

- A. **In line ventilator** shall be ducted unit, direct drive (Cook Model GN-144) as scheduled. Provide motorized damper at fan outlet. Provide variable-speed controller with solid-state control to reduce speed from 100 percent to less than 50 percent. Provide disconnect switch, nonfusible type, with thermal-overload protection mounted inside fan housing, factory wired through an internal aluminum conduit. Interlock with light switch.
- B. **PIPE, FITTINGS, AND ACCESSORIES**
- A. **Domestic hot and cold water piping** shall be hard copper tube, ASTM B 88, Type L, water tube, drawn temper and shall utilize copper pressure fittings complying with ASME B16.18, cast-copper-alloy or ASME B16.22, wrought-copper, solder-joint fittings. Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body, with ball-and-socket, metal-to-metal seating surfaces and solder-joint or threaded ends. Perform the following steps before operation: remove close drain valves, hydrants, and hose bibs, open shutoff valves to fully open position, remove plugs used during testing of piping and plugs used for temporary sealing of piping during installation, remove and clean strainer screens, close drain valves and replace drain plugs. Test domestic water piping as follows: test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested, cap and subject piping to static water pressure of 50 psig above operating pressure, without exceeding pressure rating of piping system materials, isolate test source and allow to stand for four hours, repair as necessary, and retest piping or portion thereof until satisfactory results are obtained, prepare reports for tests and required corrective action. Clean and disinfect potable domestic water piping per code requirements or administrative authority requirements. Sample procedure as indicated: purge new piping and parts of existing domestic water piping that have been altered, extended, or repaired before using, use purging and disinfecting procedures prescribed by authorities having jurisdiction or, if methods are not prescribed, procedures described in either AWWA C651 or AWWA C652 or as follows: flush piping system with clean, potable water until dirty water does not appear at outlets, fill system or part thereof with water/chlorine solution with at least 50 ppm of chlorine. Isolate with valves and allow to stand for 24 hours, flush system with clean, potable water until no chlorine is in water coming from system after the standing time, submit water samples in sterile bottles to authorities having jurisdiction, repeat procedures if biological examination shows contamination.
- B. **Isolation Valves for domestic hot and cold water** shall be 600# W.O.G., cast bronze two piece body, hard chrome plated forged brass ball, true adjustable packing nut ("O"-ring only type stem seal not acceptable), blow-out proof stem. Swing check valves for non-potable domestic hot and cold water shall be Class 125, bronze body, screwed cap, Teflon disc Iron Body Valves. Install shutoff valve on each water supply to equipment and on each water supply to plumbing fixtures without supply stops. Use ball or gate valves for piping NPS 2 and smaller. Use butterfly or gate valves for piping NPS 2-1/2 and larger.
- C. **Sanitary waste and vent piping** shall be cast iron, hubless pipe and fittings. Cast iron shall comply with ASTM A 888 or CISPI 301. Couplings shall be ASTM C 1277 assembly of metal housing, corrosion-resistant fasteners, and ASTM C 564 rubber sleeve with integral, center pipe stop. Install cast-iron soil piping according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings." Make changes in direction for soil and waste drainage and vent piping using appropriate branches, bends, and long-sweep bends. Sanitary tees and short-sweep 1/4 bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Use long-turn, double Y-branch and 1/8-bend fittings if 2 fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Use proper size of standard increasers and reducers if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited. Install drainage and vent piping at the minimum slopes as required by the local plumbing code. Perform tests in presence of authorities having jurisdiction. Arrange for rough-in inspection before concealing or closing-in after roughing-in and before setting fixtures, arrange for final inspection by authorities having jurisdiction to observe tests and to ensure compliance with requirements. Test sanitary drainage and vent piping according to procedures of authorities having jurisdiction or, in absence of published procedures, as follows: test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested, leave uncovered and unobscured new, altered, extended, or replaced drainage and vent piping until it has been tested and approved, close openings in piping system and fill with water to point of overflow, but not less than 10-foot head of water, from 15 minutes before inspection starts to completion of inspection, water level must not drop, inspect joints for leaks. Finished Plumbing Test Procedure: After plumbing fixtures have been set and traps filled with water, test connections and prove they are gastight and watertight. Plug vent-stack openings on roof and building drains where they leave building. Introduce air into piping system equal to pressure of 1-inch wg. Use U-tube or manometer inserted in trap of water closet to measure this pressure. Air pressure must remain constant without introducing additional air throughout period of inspection. Inspect plumbing fixture connections for gas and water leaks. Repair leaks and defects with new materials and retest piping, or portion thereof, until satisfactory results are obtained. Prepare reports for tests and required corrective action.

TESTING, ADJUSTING, AND BALANCING

- A. The work of this contract shall include testing, adjusting, and balancing for the air systems within the renovated space by a technician qualified to perform the work.
- B. Balancing shall include submission of a final report documenting compliance with the specifications.
- C. Tolerance shall be +/- 5% for supply and exhaust air.

PLUMBING FIXTURES

1.1 WATER CLOSETS

Water Closets, Pressure assisted water closet (P-1): American Standard Cadet 2377.100 Vitreous china Low-consumption (1.6 gpf/6.0 Lpf) Bowl rim at 16-1/2" Elongated bowl Pressure-assisted siphon jet flush action Fully-glazed 2" ballpup trapway 10" x 12" water surface area Close-coupled Flushometer tank Side-mounted chrome trip lever Speed Connect tank/bowl coupling system

- 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. American Standard Companies, Inc.
 - 1) Bowl Type: Elongated with siphon-jet design. Include bolt caps matching fixture.
 - 2) Height: Accessible.
 - 3) Design Consumption: 1.6 gal./flush (6 L/flush).
 - 4) Tank: Flushometer-tank type with trim and pressurized tank. Include cover.
 - 5) Trip Mechanism: Lever-handle actuator.
 - 6) Color: White.
 - b. Supply: NPS 3/8 (DN 10) chrome-plated brass or copper with wheel-handle stop.

1.1 LAVATORY ADA Wall-Hung Lavatory (P-2): American Standard Murro 0954 wall-mount lavatory shall be 21-1/4" in length, 22" in width. Lavatory shall be made of vitreous china. Lavatory shall have 4" centers. Lavatory shall be ADA compliant.

- B. Typical for All Lavatories:
 - 1. Coordinate hole punchings with faucet.
 - 2. Provide overflow.
 - 3. Drain: cast brass, solid-top, open-grid, C/O plug with 1-1/4" diameter 17-gauge tailpiece and cast brass locknut for sink depths up to 2-1/4". Offset tailpiece for ADA applications.
 - 4. P-trap: chrome plated, cast body p trap, tubular wall bend 10-1/2" CL, die cast nuts, shallow escutcheon with 1-1/4" compression inlet x 1-1/2" compression outlet.
 - 5. Supply line: supplied by fixture manufacturer, or by McGuire or Brasscraft; loose key standard stop lavatory supply kit, two polished chrome, solid brass angle stops with round wheel handles, two 12" flexible chrome-plated lavatory risers complete with two chrome-plated steel flanges, connections: 1/2" sweat x 3/8" OD.
 - 6. Provide TuroBro LevGuard-2, or approved equal, under-sink piping covers. Insulate per ADA 4.19.4 and IBC all exposed lavatories drain piping, hot/cold stops and supplies. Insulation shall conform to International Building Code (IBC) with testing standard of ASTM E84 Class A Material (25 Flame/450 Smoke) criteria and IAPMO PS 94-2001A Listed. Protectors shall consist of closed-cell PVC with anti-fungal and antimicrobial properties with (non-sawn) heat welded construction. Protectors shall be a one-piece universal fit jacket with smooth and soft texture. Protectors shall have PVC Velcro fasteners adhered with (non-sawn) heat weld bonding to allow for custom trimming. Protectors shall have PVC Velcro fasteners for full enclosure and shall have weep hole at bottom of J-band to provide for condensation drainage and air circulation. Protectors shall be secured by Heavy-Duty interlocking Snap Fasteners for permanent safe fit option to deter theft and/or injury.
- C. ADA Two Handle Faucet: Delta Model 21C heavy duty cast brass center set faucet, 4" centers, two handle, Polished chrome plated finish with polished under spout, Metal hold-down package, Color indexed metal handles with vandal resistant screws, 1/4 turn ceramic structure.
 - 1. With cast ADA offset open grid strainer
 - 2. With pop up
 - 3. Vandal Resistant 0.5 USGPM Flow Control Non-Aerating Spray Outlet
 - 4. 3" ADA lever blade handles.

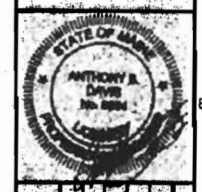
C STAINLESS STEEL SINKS (P-3)

- A. Sink Manufacturers:
 - 1. Elkay Manufacturing Co.
 - 2. Just Manufacturing Co.
- B. Faucet Manufacturers:
 - 1. Symons
 - 2. Delta Commercial
 - 3. Chicago
 - 4. Zurn
- C. Common requirements:
 - 1. Protective Shielding (Guards): Provide for ADA installation with exposed piping.
 - 2. Hole punchings to match faucet type.
 - 3. Supplies: Provide gaps below sink
- D. Standard Kitchen Sink: Elkay LRADQ2521 or Just Mfg. SL-ADA-2125-A-GR, counter-mounting, single compartment, Type 304stainless-steel fixture.
 - 1. Overall Size: 25" X 21-1/4".
 - 2. Sink Faucet: Symons S-26 single handle kitchen faucet with pull-out spray spout with retractable pull-out spray hose; pull-out spray spout with spray to stream touch control; integral vacuum breaker and ceramic control components; 1/2 inch IPS connections; single hole or 3 hole installation (includes optional escutcheon); metal construction with chrome finish; ASME A112.18.1-2005.
 - 3. Drain Fitting: Type 304 stainless steel body and removable conical basket strainer with metal stem and rubber stopper; fits 3-1/2" opening; polished finish; chrome plated brass 1-1/2" x 4" tailpiece or 1-1/2" elbow for ADA offset.

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REVISIONS	NUMBER	DATE	BY	DESCRIPTION

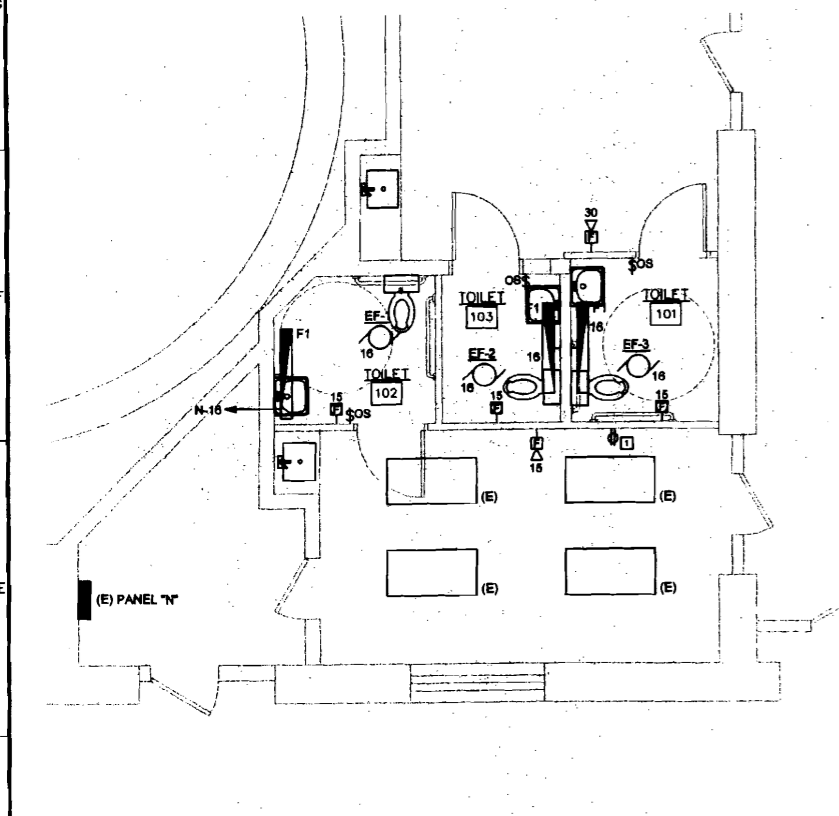
Date: 02-20-2009	Drawn By: SCL	Checked By: ASD	Project Mgr: MFF	Project No: 08005	Coord File: 08005.DWG	Graphic: D	Scale:
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PLUMBING AND MECHANICAL SPECIFICATIONS

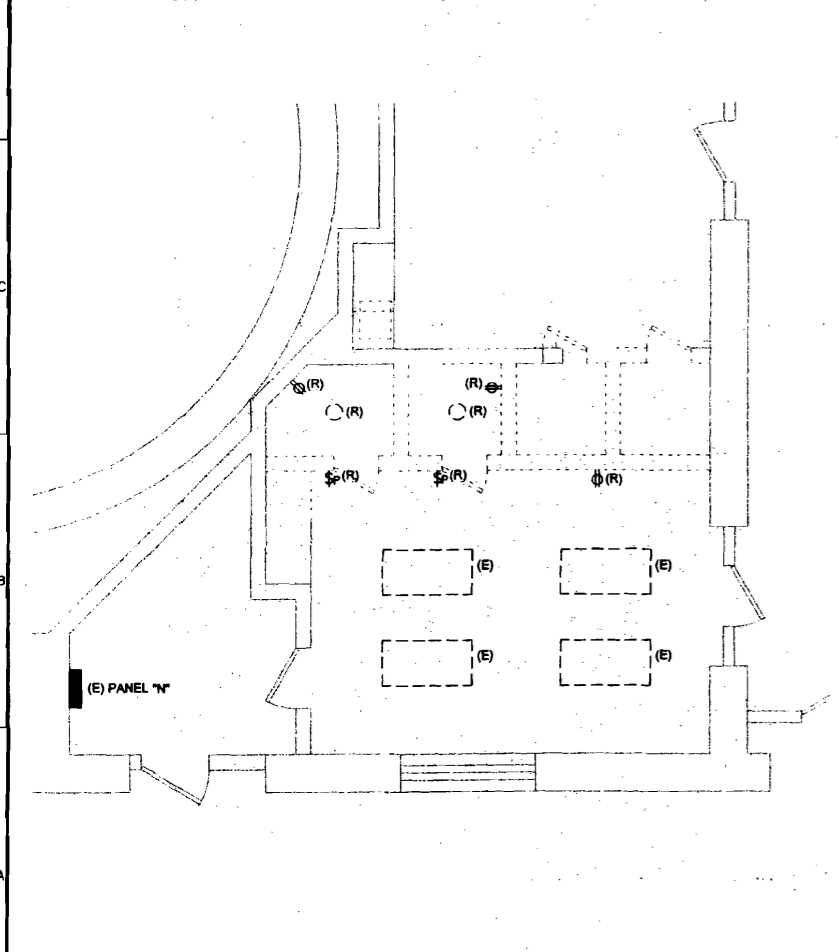
ADA RESTROOM UPGRADE
CUMBERLAND COUNTY COURTHOUSE
142 FEDERAL STREET, PORTLAND, MAINE

PL-500

Project: 2009\09005 - CCH 1st Restroom Upgrade\00 Drawing File\09005E.dwg Feb 20, 2009 - 10:55am



D1 ELECTRICAL PLAN ~ SECOND FLOOR
1/4" = 1'-0"



A1 ELECTRICAL DEMOLITION PLAN ~ SECOND FLOOR

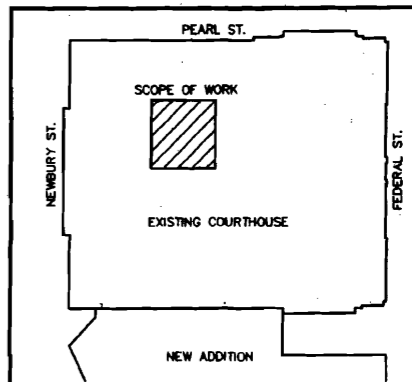
- BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE WORK OF THIS PROJECT. WHERE ELECTRICAL ITEMS ARE REMOVED, REMOVE CONDUIT AND WIRING BACK TO SOURCE.
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS, IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS.
- ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.
- COORDINATE WORK WITH OTHER DIVISIONS. VERIFY EXACT POWER REQUIREMENTS OF MECHANICAL EQUIPMENT WITH DIVISION 23. POWER WIRING FOR EQUIPMENT & CONTROL IS TO BE PERFORMED BY DIVISION 28.
- ALL WIRING SHALL BE CONCEALED WITHIN WALLS AND ABOVE CEILINGS UNLESS OTHERWISE NOTED.
- WHERE LOAD IS ADDED TO EXISTING BRANCH CIRCUITS, VERIFY THAT THOSE CIRCUITS HAVE ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOAD.
- LINE VOLTAGE WIRING METHODS SHALL BE SINGLE CONDUCTORS IN EMT OR MC CABLE.
- REMOVE ALL EXISTING ITEMS FROM WALLS TO BE REMOVED WHETHER THOSE ITEMS ARE SPECIFICALLY SHOWN OR NOT. PROVIDE WIRING AND CONNECTIONS AS REQUIRED TO MAINTAIN OPERATION OF EXISTING ITEMS TO REMAIN THAT ARE CONNECTED TO THE SAME BRANCH CIRCUIT AS ITEMS TO BE REMOVED.
- PROVIDE TYPE 302 STAINLESS STEEL WALL PLATES FOR ALL DEVICES.
- ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICIANS AND IN ACCORDANCE WITH ALL CURRENT CODES AND ORDINANCES.
- ALL WIRING METHODS SHALL BE PLENUM RATED.
- COORDINATE EXACT LOCATIONS OF DEVICES WITH OTHER DIVISIONS PRIOR TO ROUGH-IN.
- NO WIRING THAT BECOMES UNUSED AS A RESULT OF THIS PROJECT SHALL BE ABANDONED IN PLACE.

D6 GENERAL NOTES
NO SCALE

- 1** CONNECT TO EXISTING CIRCUIT FROM WHICH EXISTING RECEPTACLE WAS REMOVED.
- G9 KEY NOTES**
- (E) EXISTING ITEM TO REMAIN
 - (R) REMOVE ITEM AND DISPOSE OF PROPERLY
 - (ER) RELOCATED ITEM AT NEW LOCATION
 - (RL) REMOVE AND RELOCATE
 - AFF ABOVE FINISHED FLOOR
 - UNO UNLESS NOTED OTHERWISE

- F9 ABBREVIATIONS**
NO SCALE
- ⊕ DUPLEX RECEPTACLE, 20A, 125V, MOUNT 18" AFF UNO.
 - ⊕ OS OCCUPANCY SENSOR WALL SWITCH PW-100 OR EQUAL.
 - ⊕ LIGHT FIXTURE: 4 WALL MOUNTED 2 LAMP LUMINAIRE - LITHONIA WC-232-3MVOLT-GE810PS WITH ONE LAMP ON EMERGENCY BATTERY BALLAST.
 - ⊕ RECESSED MOUNTED 2x4 LIGHT FIXTURE
 - CEILING MOUNTED LIGHT FIXTURE
 - 15 ⊕ AUDIOVISUAL INDICATING APPLIANCE TO MATCH EXISTING - CANDELA AS NOTED ON PLANS, MOUNT 8" AFF TO BOTTOM OR 6" BELOW CEILING WHICHEVER IS LOWER. CONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT. PROVIDE POWER SUPPLIES AS REQUIRED.
 - 15 ⊕ FIRE ALARM STROBE 15 CANDELA TO MATCH EXISTING - MOUNT 8" AFF TO BOTTOM OF DEVICE OR 6" BELOW CEILING WHICHEVER IS LOWER. CONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT. PROVIDE POWER SUPPLIES AS REQUIRED.
 - SURFACE MOUNTED PANELBOARD
 - ⊕ EXHAUST FAN - CONNECT FOR CONTROL BY OCCUPANCY SENSOR, DISCONNECTING MEANS FURNISHED WITH EQUIPMENT BY DIVISION 23.
 - ← HOME RUN TO PANEL (2) #12 + (1) #12 G UNO - PROVIDE GE TYPE THQL 20A, 1P OS UNO.

D9 ELECTRICAL LEGEND
NO SCALE

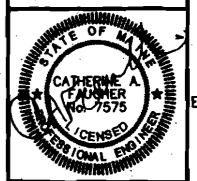


A9 KEY PLAN
NONE

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REVISIONS	DATE	BY	DESCRIPTION

Date: 02-20-2009
Drawn By: JAM
Checked By: SM
Project Mgr: WFF
Project No: 09005
Cdd File: 09005E.DWG
Graphic: 0
Scale: 1"

ELECTRICAL PLAN ~ SECOND FLOOR
ADA RESTROOM UPGRADE
CUMBERLAND COUNTY COURTHOUSE
142 FEDERAL STREET, PORTLAND, MAINE

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