Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

B[illegible]ECTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 040938

PERMIT ISSUED
AUG 13 2004
CITY OF PORTLAND

This is to certify that Cumberland County Of/Hard[illegible]nd Cons[illegible]

has permission to renovate courthouse by addin[illegible]ew conf[illegible]ce roo[illegible]

AT 142 Federal St [illegible] 028 F001001

provided that the person or persons, [illegible]m or [illegible]ation a[illegible]epting this permit shall comply with all of the provisions of the Statutes of M[illegible]ine and of th[illegible]ances of the City of Portland regulating the construction, maintenance and u[illegible] of buildings and st[illegible]ctures, 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.

N[illegible]fication [illegible] inspec[illegible]n must [illegible] g[illegible]n and w[illegible]n permi[illegible]n procu[illegible] b[illegible]re this [illegible]ding or [illegible]t thereo[illegible] la[illegible]ed or c[illegible]losed-in. [illegible] H[illegible]R 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. [illegible]

Health Dept. _____

Appeal Board _____

Other _____
Department Name

8/13/04
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
04-0938		028 F001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
142 Federal St	Cumberland County Of	142 Federal St	871-8293
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	HardyPond Construction	1039 Riverside St Suite 11 Portland	2077976066
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Alterations - Commercial	B-3

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
courthouse	courthouse w/new conference rooms within existing space	$1,560.00	$171,000.00	1

FIRE DEPT: ☑ Approved ☐ Denied
Signature:

INSPECTION:
Use Group: A/B Type: 2+
Signature: 8/12/04

Proposed Project Description:
renovate courthouse by adding new conference rooms

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied
Signature: Date:

Permit Taken By:	Date Applied For:
jodinea	07/08/2004

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. 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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☐ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: 8/12/04	Date:	Date: any exterior work requires Historic review

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

09/11/04 - FRAMING INSPECTION OKAY (MAE)

" " " - NEED SPECIAL INSPECTIONS FOR

STRUCTURAL STEEL BEAM & ROOFTOP HVAC UNIT

(MAE)

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
04-0938	07/08/2004	028 F001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
142 Federal St	Cumberland County Of	142 Federal St	( ) 871-8293
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	HardyPond Construction	1039 Riverside St Suite 11 Portland	(207) 797-6066
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Alterations - Commercial	

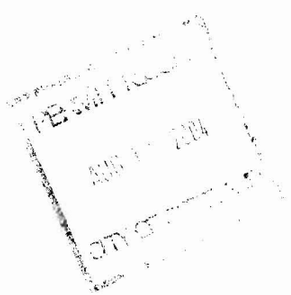
Proposed Use:	Proposed Project Description:
courthouse w/new conference rooms within existing space	renovate courthouse by adding new conference rooms

Dept:	Zoning	**Status:**	Approved	**Reviewer:**	Marge Schmuckal	**Approval Date:**	07/09/2004
Note:						**Ok to Issue:**	☑
Dept:	Building	**Status:**	Pending	**Reviewer:**	Mike Nugent	**Approval Date:**	
Note:						**Ok to Issue:**	☐
Dept:	Fire	**Status:**	Approved	**Reviewer:**	Lt. MacDougal	**Approval Date:**	07/12/2004
Note:						**Ok to Issue:**	☑

Comments:

07/16/2004-mjn: Left a message for the Winton Scott and Peter Whitemore from Hardypond that the plans are not stamped, no statement of special inspection for the steel erection and certification forms from the design professional.

07/19/2004-mjn: Got certifications and stamped plans, did not receive special inspections, Speke with Mark Wilcox



All Purpose 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: 142 Federal Street, Portland, ME		
Total Square Footage of Proposed Structure	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# 28 Block# F Lot# 1	Owner: County of Cumberland	Telephone: 871-8293
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone:	Cost Of Work: $ 171,000.00 **Fee: $**

Current use: Courthouse

If the location is currently vacant, what was prior use: N/A

Approximately how long has it been vacant: N/A

Proposed use: Courthouse, create new conference rooms within existing space.
Project description:

Contractor's name, address & telephone: Hardypond Construction, 1039 Riverside St. Suite 11, Portland, ME 04103 797-6066
Who should we contact when the permit is ready: Peter Whitmore (671-9378)
Mailing address: same as above

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a $100.00 fee if any work starts before the permit is picked up. **PHONE:** 207-797-6066

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APROVE THIS PERMIT.

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.

Signature of applicant:	**Date:** July 7, 2004

This is NOT a permit, you may not commence ANY work until the permit is issued.
If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: Winton Scott Architects

Address of Project: 142 Federal St.

Nature of Project: Convert 6,000 sf open lobby area into conference rooms at the Cumberland County Superior Court 1990 Annex

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.

Signature: [signature] 7/6/04

Title: Principal

(SEAL)

Firm: Winton Scott Architects

Address: 5 Milk St.
Portland, ME 04101

Phone: 774-4811

REGISTERED ARCHITECT
MARK M. WILCOX
No. 1299
STATE OF MAINE

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: Winton Scott Architects

RE: Certificate of Design

DATE: 7/6/04

These plans and / or specifications covering construction work on:

Cumberland County Superior Court Conference Rooms

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the ***BOCA National Building Code / 1999 (Fourteenth Edition)*** and local amendments.

(SEAL) REGISTERED ARCHITECT MARK M. WILCOX No. 1299 STATE OF MAINE

Signature: Mark M. Wilcox

Title: Principal

Firm: Winton Scott Architects

Address: 5 Milk St.
Portland, ME 04101

As per Maine State Law:

$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM DESIGNER: Winton Scott Architects

DATE: 7/6/04

Job Name: Cumberland County Superior Court Conference Room

Address of Construction: 142 Federal St.

THE BOCA NATIONAL BUILDING CODE / 1999 (FOURTEENTH EDITION)

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

Building Code and Year BOCA '99 Use Group Classification(s) A3 / B

Type of Construction 2A

Structural Systems

Roof Snow Load N/A.

_____Ground Snow Load (Pg)

_____If Pg >10 psf, Flat Roof snow load, Pf

_____If Pg >10 psf, snow exposure factor, Ce

_____If Pg >10 psf, roof thermal factor

_____If Pg >10 psf, snow load importance factor, I

_____Sloped Roof Snowload Ps

Earthquake Loads N/A.

_____Peak velocity-related acceleration, Av

_____Peak acceleration, Aa

_____Seismic hazard exposure group

_____Seismic performance category

_____Soil profile type

_____Basic structural system /seismic-resisting system

_____Response modification factor, R, and deflection amplification factor, Cd,

_____The documents must account for Drift snow load, unbalanced snow load and Sliding snow loads as required.

Wind Loads N/A.

_____Basic Wind Speed

_____Internal Pressure Coefficient

_____Wind Exposure Category _____Wind Design Pressure _____Wind Importance Factor

HARDYPOND CONSTRUCTION

1039 RIVERSIDE ST. - SUITE 11
PORTLAND, MAINE 04103
(207) 797-6066
FAX (207) 797-8986

July 7, 2004

City of Portland, Maine
Inspections Department
389 Congress Street
Portland, ME 04101

Attn: Building Inspector

RE: Cumberland County Superior Court
142 Federal Street

Dear Sirs,

Hardypond Construction is applying for a building permit to make modifications within the courthouse structure. We are not changing the exterior or increasing the footprint.

The purpose of this renovation is to create conference room space for lawyer client meetings. We look at this as a 3 to 4 month project. There will be separate requests for a mechanical and electrical permits.

If you have any questions about this project please feel free to contact us at your convenience.

Sincerely yours,

Peter A Whitmore

Peter A Whitmore
Project Manager

JUL 7 2004

2871

Conference Rooms Renovation

First Floor

Cumberland County Superior Court

142 Federal Street

Portland, Maine 04101

For The County of Cumberland, Maine

Commissioners:
Esther B. Clenott
Richard J. Feeney
Gary E. Plummer

Architect

Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207-774-4811

Mechanical and Electrical Engineer

Allied Engineering
One Westbrook Common
Westbrook, Maine 04092
207-854-8126

Abbreviations

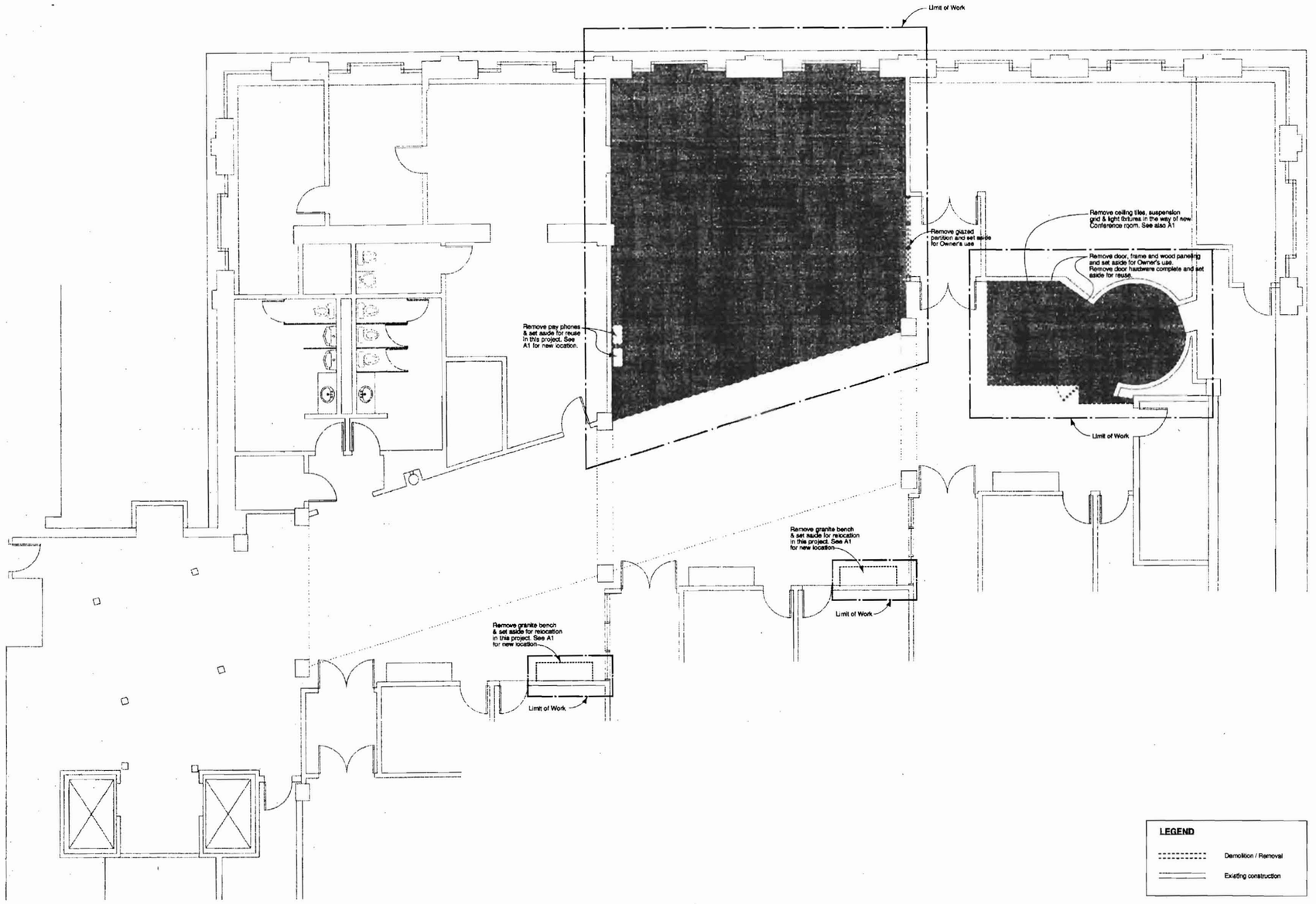
AB	Anchor Bolt
ABV	Above
ACT	Acoustical Ceiling Tile
ADJ	Adjustable, Adjacent
AFF	Above Finished Floor
AHU	Air Handling Unit
ALT	Alternate
ALUM	Aluminum
AP	Access Panel
ARCH	Architectural
@	At
B	Basement, Base
BB	Bulletin Board
BD	Board
BET	Between
BEV	Beveled
BIT	Bituminous
BLDG	Building
BLKG	Blocking
BM	Bench Mark, Beam
BOT	Bottom
BRK	Brick
C	Course
CAB	Cabinet
CAP	Capacity
CB	Chalk Board, Catch Basin
CEM	Cement
CI	Cast Iron
CJ	Control Joint
CL	Center Line
CLG	Ceiling
CLO	Closet
CLR	Clear
CMT	Ceramic Mosaic Tile
CMU	Concrete Masonry Unit
COL	Column
COMP	Compressible
CONC	Concrete
CONST	Construction
CONT	Continuous
COORD	Coordinate
CPT	Carpet
CT	Ceramic Tile
CTSK	Countersunk Screw
CUH	Cabinet Unit Heater
DBL	Double
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIM	Dimension
DRW	Drawer
DTL	Detail
DW	Dishwasher
DWG	Drawing
EA	Each
EL	Elevation
ELEC	Electrical
ELEV	Elevator, Elevation
EQ	Equal
EXH	Exhaust
EXIST	Existing
EXP	Expansion
EXT	Exterior
FC	Fire Code
FCH	Fuming Channel
FD	Floor Drain
FE	Fire Extinguisher
FFE	Finish Floor Elevation
FIN	Finished
FL	Flush
FLR	Floor
FLSHG	Flashing
FSR	Flexible Sheet Roofing
GA	Gauge
GALV	Galvanized
GB	Grab Bar
GC	General Contractor
GL	Glass
GWB	Gypsum Wall Board
GYP BD	Gypsum Board
HC	Handicapped, Hollow Core
HDW	Hardware
HDWD	Hardwood
HM	Hollow Metal
HORIZ	Horizontal
HP	High Point
HPL	High Pressure Laminate
HR	Hour
HT	Height
HTG	Heating
HW	Hot Water
ID	Inside Diameter
INCL	Inclusive
INS	Insulation
INT	Interior
INV	Invert
IS	Inside
JC	Janitors Closet
JST	Joist
JT	Joint
KIT	Kitchen
LAM	Laminated
LAV	Lavatory
LF	Linear Feet
LP	Low Point
LPL	Low Pressure Laminate
MAS	Masonry
MAT	Material
MAX	Maximum
MDO	Medium Density Overlay
MECH	Mechanical
MFR	Manufacturer
MH	Man Hole
MIN	Minimum
MIR	Mirror
MISC	Miscellaneous
MLDG	Molding
MO	Masonry Opening
MR	Moisture Resistant
MTG	Mounted, Mounting
MTL	Metal
NAT	Natural
NIC	Not In Contract
NO	Number
NOM	Nominal
NTS	Not To Scale
OA	Overall
OC	On Center
OD	Outside Diameter
OH	Overhead
OPNG	Opening
OPP	Opposite
OS	Outside
PARTN	Partition
PB	Particle Board
PC	Precast
PLAM	Plastic Laminate
PL	Plate
PLYWD	Plywood
PPB	Prefinished Particle Board
PREFIN	Prefinished
PT	Pressure Treated
PTD	Painted
QT	Quarry Tile
R	Radius, Riser
RAD	Radiator
RC	Resilient Channel
RD	Roof Drain
REF	Reference
REFR	Refrigerator
REINF	Reinforce, Reinforcing
REQD	Required
RL	Rain Leader
RM	Room
RO	Rough Opening
RUB	Rubber
SC	Solid Core
SECT	Section
SF	Square Feet
SHF	Shelf
SHT	Sheet
SHTH	Sheathing
SIM	Similar
SPECS	Specifications
SQ	Square
SST	Stainless Steel
STD	Standard
STL	Steel
STO	Storage
STRUCT	Structure, Structural
SUP	Support
SUSP	Suspended
SYM	Symmetrical
T	Tread
TB	Tackboard
TEMP	Tempered
THK	Thick
THR	Threshold
THRU	Through
TOC	Top of Concrete
TOS	Top Of Steel
TP	Toilet Paper
TR	Tack Rail
TYP	Typical
T&B	Top And Bottom
T&G	Tongue And Groove
UC	Undercut
UV	Unit Ventilator
V	Vinyl, Vent
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VERT	Vertical, Verticality
VEST	Vestibule
VWC	Vinyl Wall Covering
WB	White Board
WC	Water Closet
WD	Wood
W/	With
W/O	Without

Plan Set #1

Architectural Drawings

Release Date: May 7, 2004

Drawing List



Conference Rooms

Renovation

Cumberland County

Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

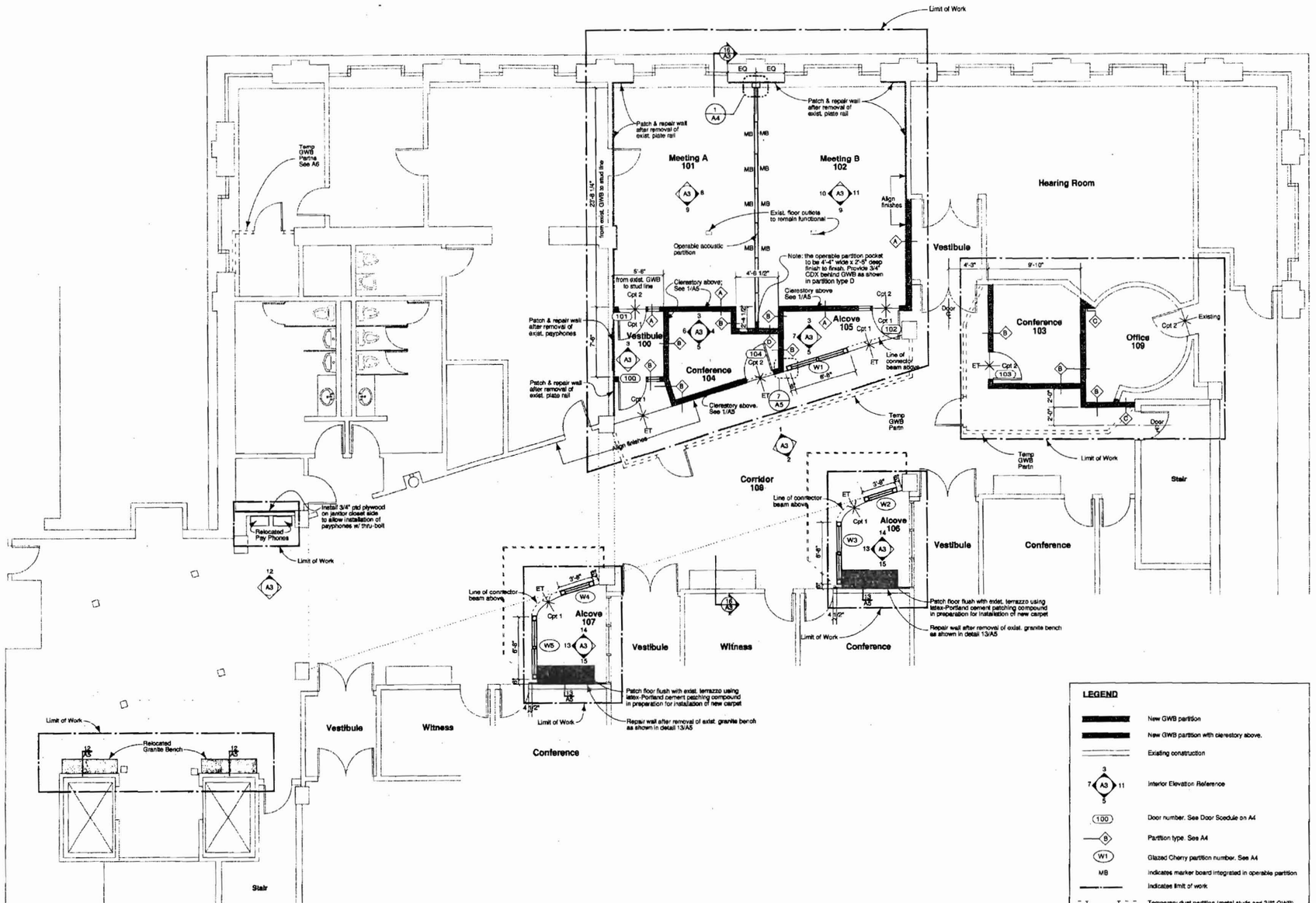
Allied Engineering

Westbrook, ME

D1

Demolition Plan

May 7, 2004 | 3/16" = 1'-0"



LEGEND

- New GWB partition
- New GWB partition with clerestory above.
- Existing construction
- Interior Elevation Reference
- (100) Door number. See Door Schedule on A4
- (8) Partition type. See A4
- (W1) Glazed Cherry partition number. See A4
- MB Indicates marker board integrated in operable partition
- Indicates limit of work
- Temporary dust partition (metal studs and 3/8" GWB) with temporary metal door
- Temporary dust partition (6 mil. poly)

Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

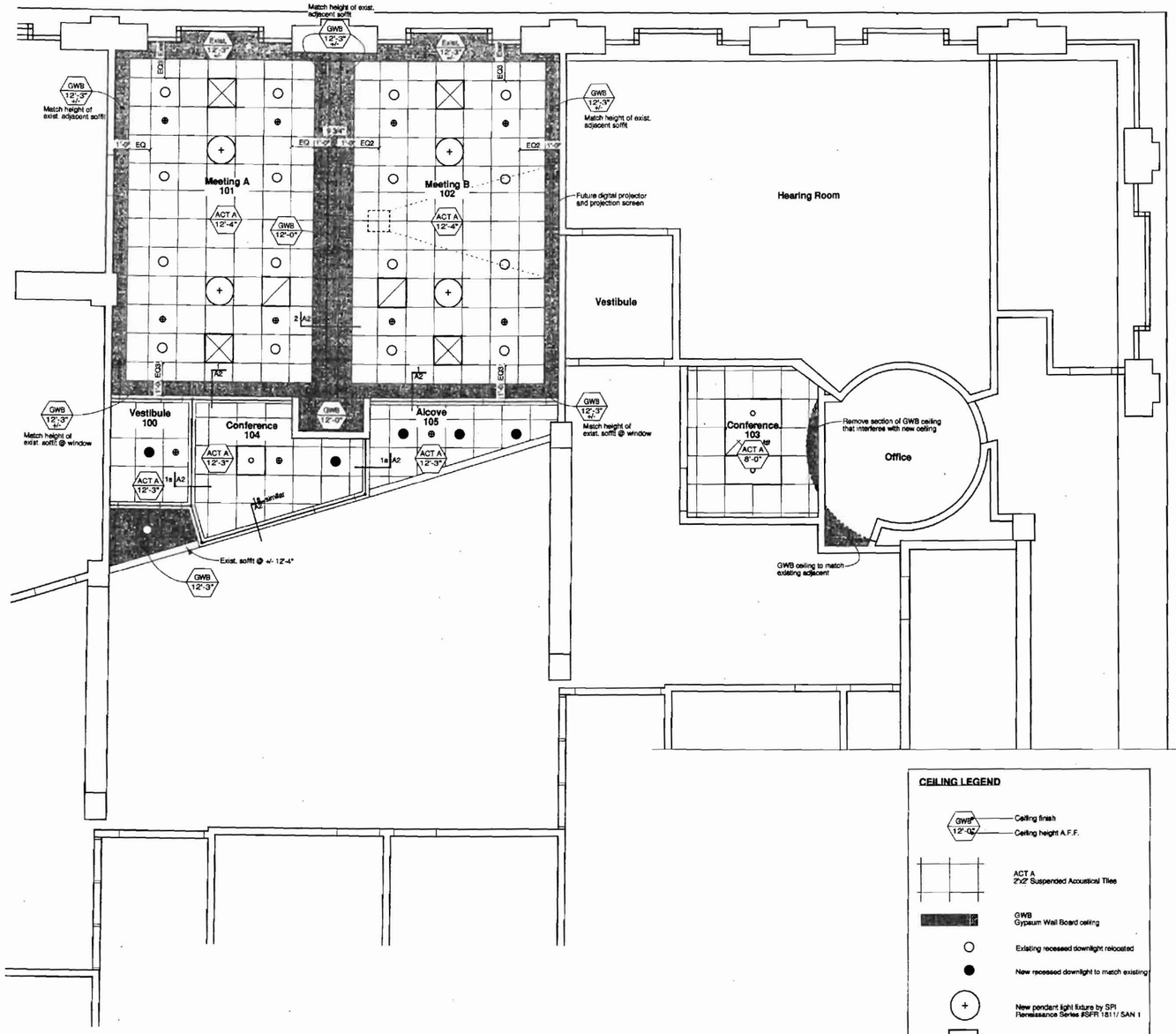
Allied Engineering

Westbrook, ME

A1

Floor Plan

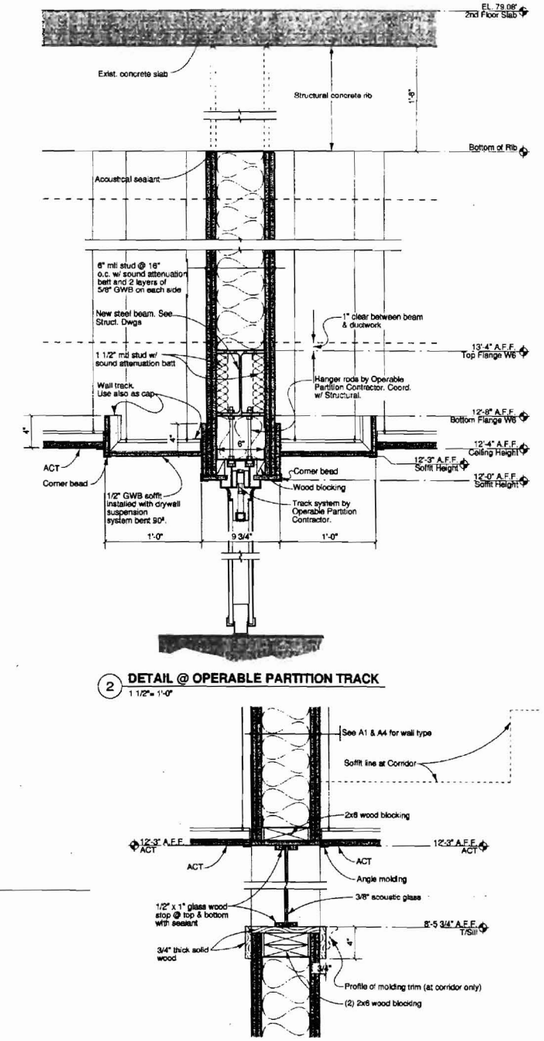
May 7, 2004 | 3/16" = 1'-0"



REFLECTED CEILING PLAN
1/4"= 1'-0"

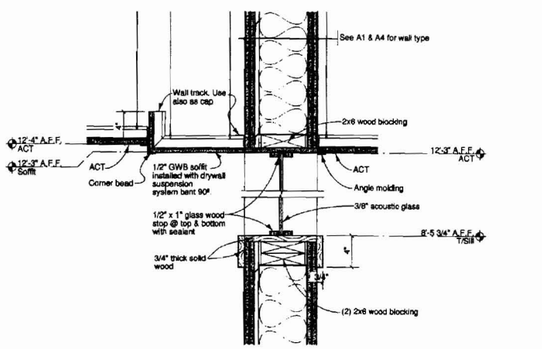
CEILING LEGEND

- GWB 12'-0" — Ceiling finish / Ceiling height A.F.F.
- ACT A 2'x2' Suspended Acoustical Tilee
- GWB Gypsum Wall Board ceiling
- Existing recessed downlight relocated
- New recessed downlight to match existing
- New pendant light fixture by SPI Renaissance Series #SFR 1811/ SAN 1
- 2' x 2' recessed parabolic fixture
- 2' x 4' recessed parabolic fixture
- Supply air diffuser grille
- Return air grille
- Sprinkler head



2 DETAIL @ OPERABLE PARTITION TRACK
1 1/2"= 1'-0"

1a DETAIL @ CLERESTORY
1 1/2"= 1'-0"



1 DETAIL @ CLERESTORY
1 1/2"= 1'-0"

Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

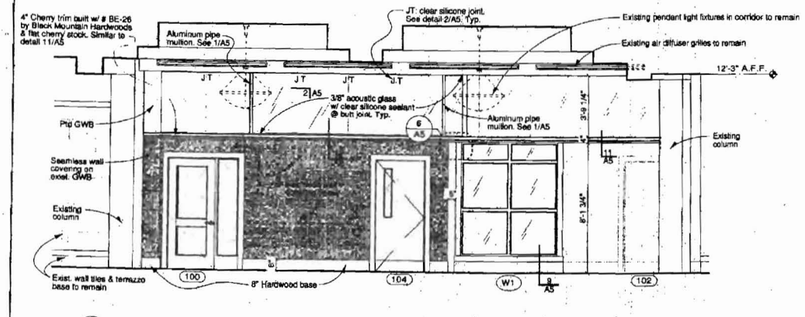
Allied Engineering

Westbrook, ME

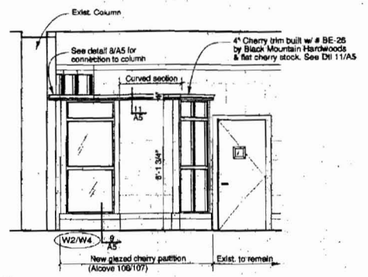
A2

Reflected Ceiling Plan

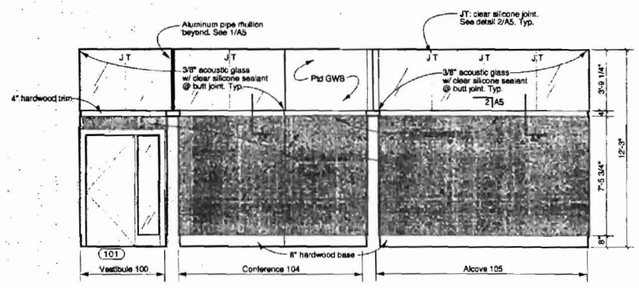
May 7, 2004 | Scale: as indicated



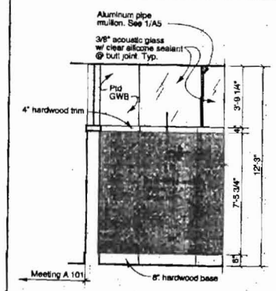
1 **Corridor Elevation**
1/4" = 1'-0"



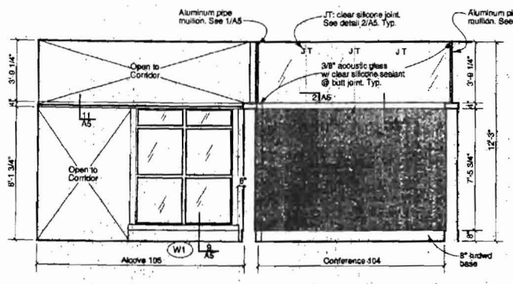
2 **Alcove 106 Elevation (sim. at Alcove 107)**
1/4" = 1'-0"



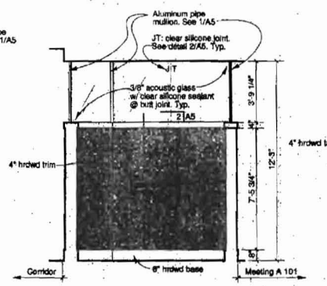
3 **Elevation at Vestibule 100, Conference 104 & Alcove 105**
1/4" = 1'-0"



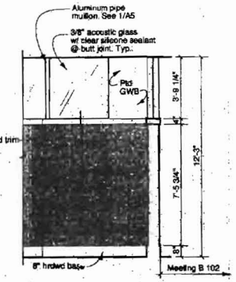
4 **Elevation at Conference 104**
1/4" = 1'-0"



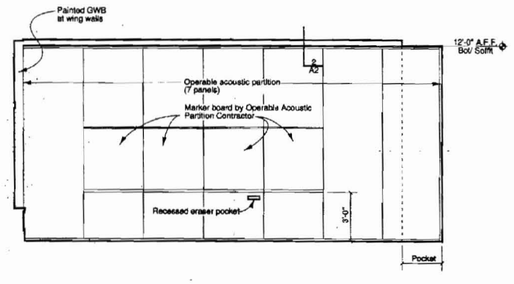
5 **Elevation at Alcove 105 & Conference 104**
1/4" = 1'-0"



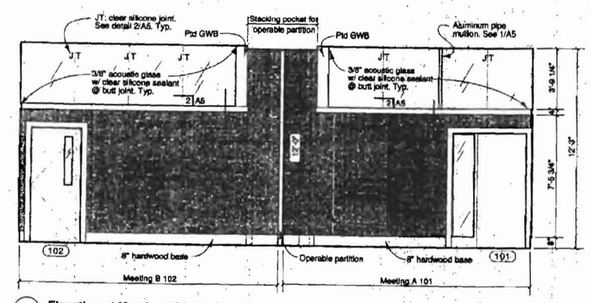
6 **Elevation at Conference 104**
1/4" = 1'-0"



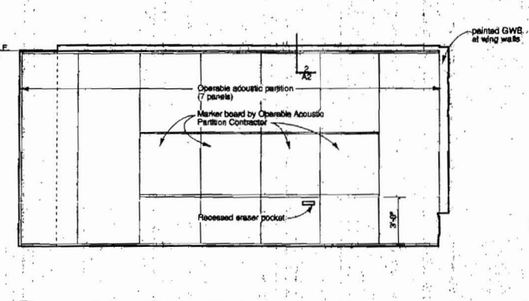
7 **Elevation at Alcove 105**
1/4" = 1'-0"



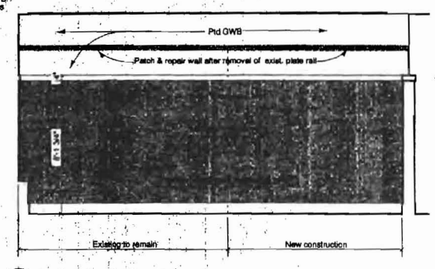
8 **Operable Partition Elevation at Meeting 101**
1/4" = 1'-0"



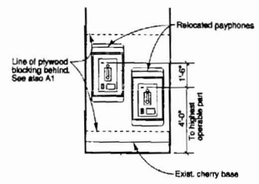
9 **Elevation at Meeting 101 & 102**
1/4" = 1'-0"



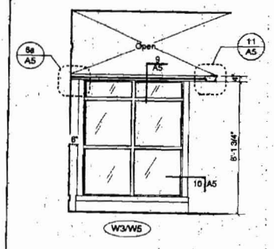
10 **Operable Partition Elevation at Meeting 102**
1/4" = 1'-0"



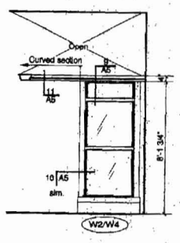
11 **Elevation at Meeting 102**
1/4" = 1'-0"



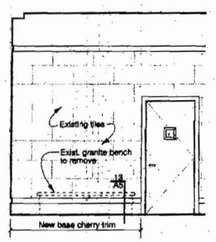
12 **Elevation at Relocated Payphones**
1/4" = 1'-0"



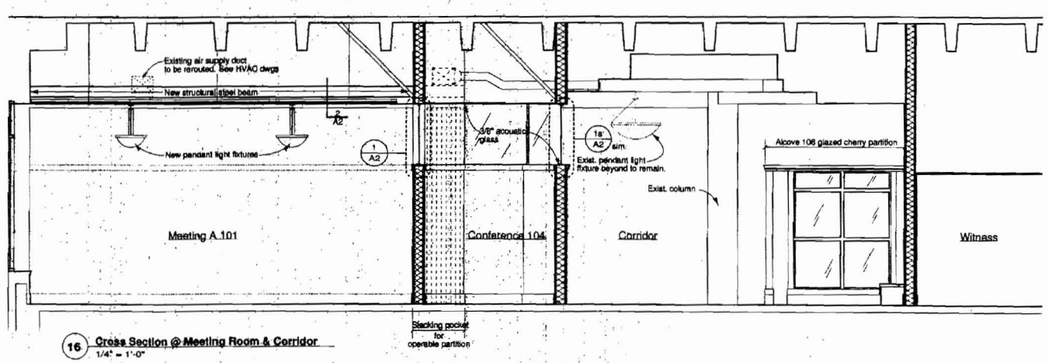
13 **Elevation at Alcove 106 / 107**
1/4" = 1'-0"



14 **Elevation at Alcove 106 / 107**
1/4" = 1'-0"



15 **Elevation at Alcove 106 / 107**
1/4" = 1'-0"



16 **Cross Section @ Meeting Room & Corridor**
1/4" = 1'-0"

Conference Rooms

Renovation

Cumberland County

Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

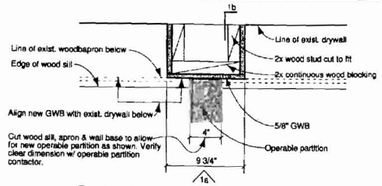
Allied Engineering

Westbrook, ME

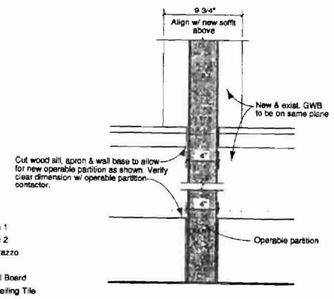
A3

Interior Elevations

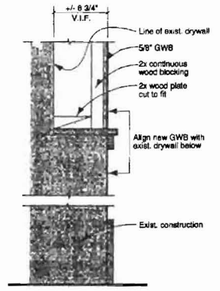
May 7, 2004 | 1/4" = 1'-0"



1 **Plan detail @ Operable Partition end wall**
1 1/2" = 1'-0"



1a **Elevation @ Operable Partition**
1 1/2" = 1'-0"



1b **Section Detail @ Operable Partition end wall**
1 1/2" = 1'-0"

Finish Legend

CPT 1	Carpet Type 1
CPT 2	Carpet Type 2
ET	Existing Terrazzo
WD	Hardwood
GWB	Gypsum Wall Board
ACT	Acoustical Ceiling Tile
ETR	Existing to Remain
Ptd	Painted
SWC	Seamless Wall Covering
Nat	Natural

Finish Schedule

Room	Room Name	Floor	Base	Walls	Ceiling	Clg. Ht.	Remarks
100	Vestibule	CPT 1	8" WD	SWC	GWB	12'-3"	
101	Meeting A	CPT 2	8" WD	SWC	ACT	12'-4"	
102	Meeting B	CPT 2	8" WD	SWC	ACT	12'-4"	
103	Conference	CPT 2	8" WD	SWC	ACT	8'-0"	
104	Conference	CPT 2	8" WD	SWC	ACT	12'-3"	
105	Alcove	CPT 1	8" WD	SWC	ACT	12'-3"	
106	Alcove	CPT 1	12" WD	ETR	ETR	+/-12'-4" (exist.)	
107	Alcove	CPT 1	12" WD	ETR	ETR	+/-12'-4" (exist.)	
108	Corridor	ET	ETR/WD	ETR / SWC	ETR	Varies	
109	Office	CPT 2	8" WD	SWC	ETR / GWB	+/- 8'-0" (exist.)	

Glazed Partition Schedule

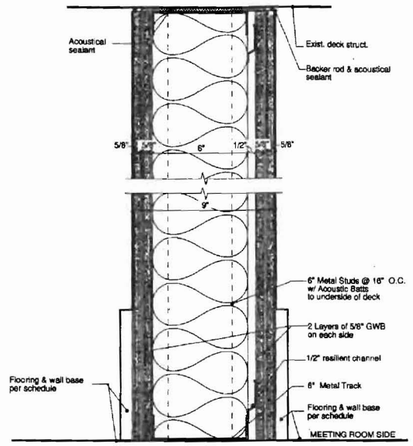
Partition No.	Dimensions	Type
W1	6'-8" x 8'-0"	A
W2	3'-8" x 8'-0"	B
W3	6'-8" x 8'-0"	A
W4	3'-8" x 8'-0"	B
W5	6'-8" x 8'-0"	A

Door and Frame Schedule

General Door No.	Size	Thickness	Door Material	Door Finish	Door Type	Frame Material	Frame Finish	Frame Type	Details Head	Details Jamb	Threshold	Hardware	Remarks
100	3'-0" x 7'-0"	1 3/4"	WD	Nat.	A	H.M.	Ptd	F2	H3	J1	-	HW1	Stile and rail door as per Specifications Section 08400 - Arch. Woodwork
101	3'-0" x 7'-0"	1 3/4"	WD	Nat.	C	H.M.	Ptd	F2	H2	J2	T1	HW2	
102	3'-0" x 7'-0"	1 3/4"	WD	Nat.	C	H.M.	Ptd	F1	H2	J2	T1	HW1	
103	3'-0" x 7'-0"	1 3/4"	WD	Nat.	B	H.M.	Ptd	F1	H1	J1	T2	HW3	
104	3'-0" x 7'-0"	1 3/4"	WD	Nat.	B	H.M.	Ptd	F1	H3	J1	T3	HW3	

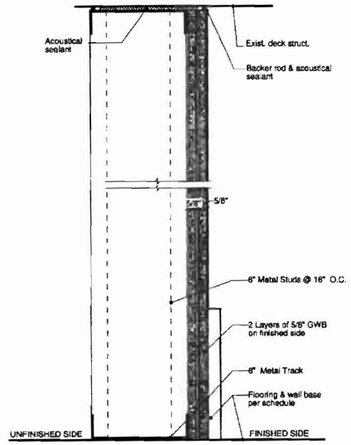
HW2

PARTITION TYPES
3" = 1'-0"

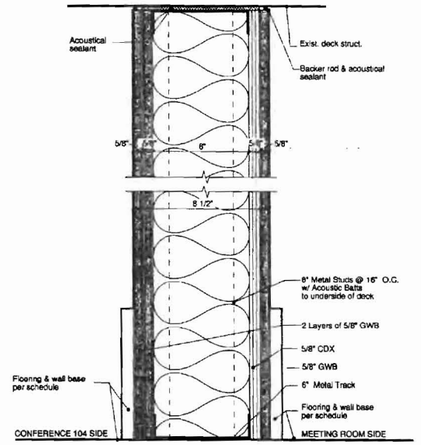


A As shown

B Omit resilient channel



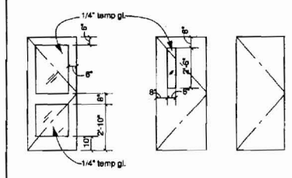
C As shown



D As shown

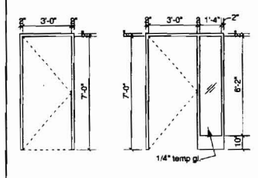
DOOR TYPES
1/4"= 1'-0"

Note: See floor plan for swing, typical.



A B C

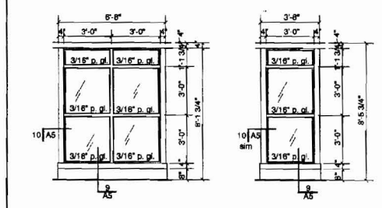
FRAME TYPES
1/4"= 1'-0"



F1 F2

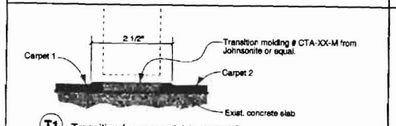
GLAZED PARTITION TYPES
1/4"= 1'-0"

Note: p. gl. indicates patterned glass. See Spec Section 08800

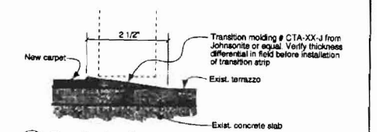


A B

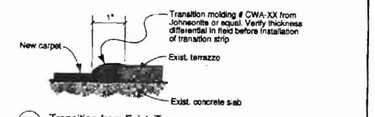
FLOOR TRANSITION TYPES
6"= 1'-0"



T1 Transition from carpet 1 to carpet 2

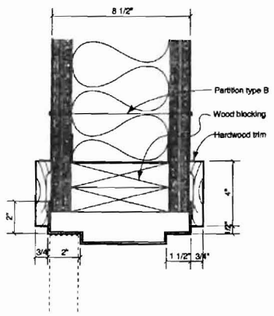


T2 Transition from Exist. Terrazzo to carpet on terrazzo

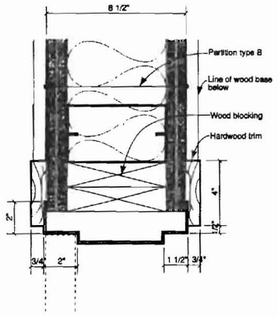


T3 Transition from Exist. Terrazzo to carpet on slab

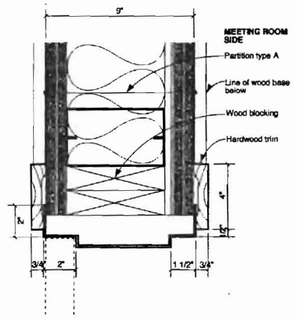
HEAD & JAMB DETAILS
3"= 1'-0"



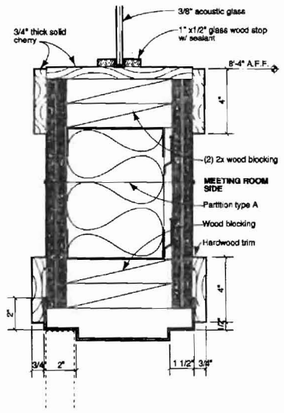
H1 Head
Door 103



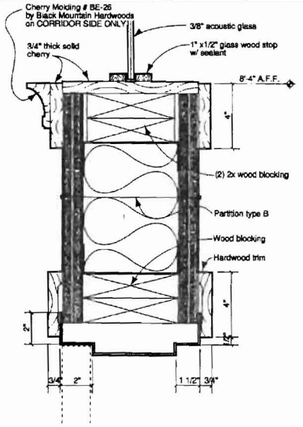
J1 Jamb
Door 100, 103, 104



J2 Jamb
Door 101, 102



H2 Head
Door 101, 102



H3 Head
Door 100, 104

Conference Rooms

Renovation

Cumberland County

Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

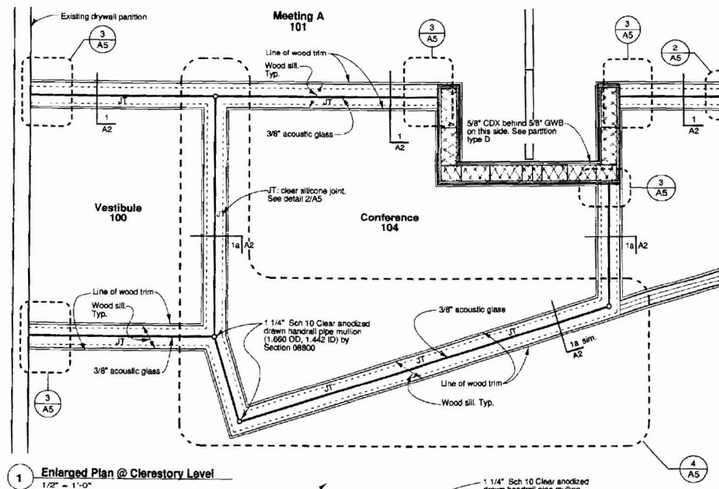
Allied Engineering

Westbrook, ME

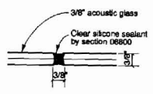
A4

Partition Types, Schedules & Details

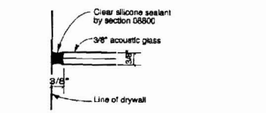
May 7, 2004 | Scale: as indicated



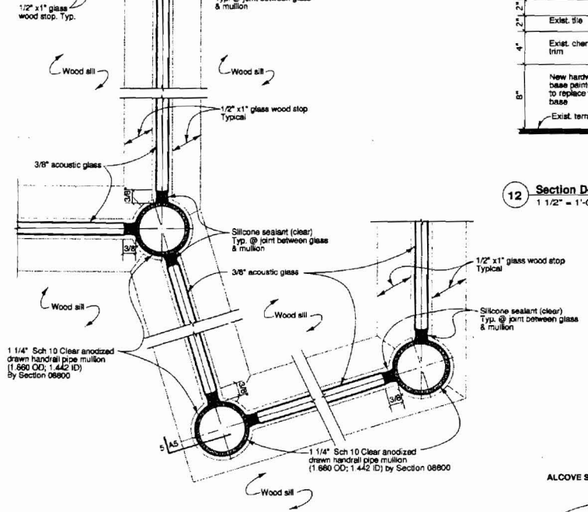
1 **Enlarged Plan @ Clerestory Level**
1/2" = 1'-0"



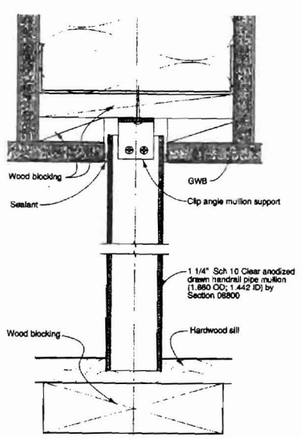
2 **Typ. Butt Joint Detail**
6" = 1'-0"



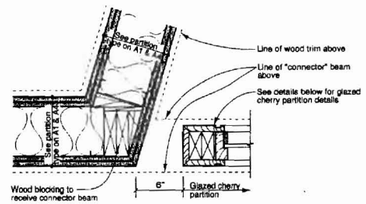
3 **Typ. Joint Detail @ Glass & Drywall**
6" = 1'-0"



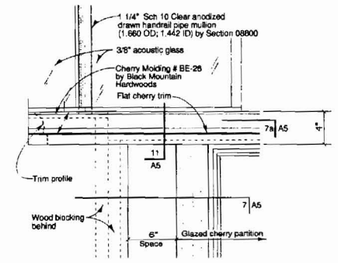
4 **Plan Detail @ Glass & Mullion**
6" = 1'-0"



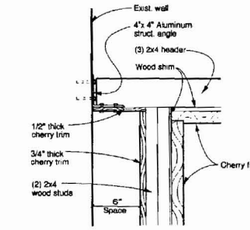
5 **Tube Mullion Section**
6" = 1'-0"



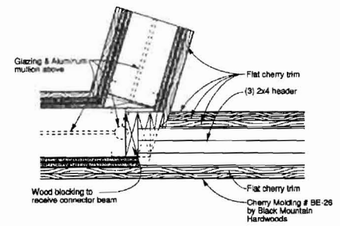
7 **Plan Detail @ Glazed Cherry Partition and New Wall**
1 1/2" = 1'-0"



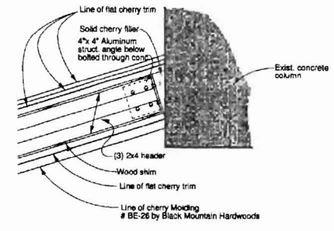
6 **Detail @ "Connector" Beam and New Wall**
1 1/2" = 1'-0"



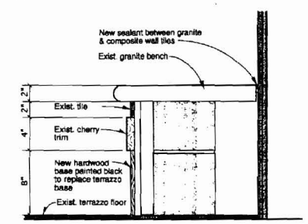
6a **Detail @ "Connector" Beam and Exist. Wall**
1 1/2" = 1'-0"



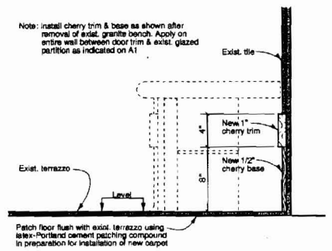
7a **Plan Dtl @ Glazed Cherry Partition and New Wall**
1 1/2" = 1'-0"



8 **Plan Dtl @ "Connector" Beam and Exist. Column**
1 1/2" = 1'-0"



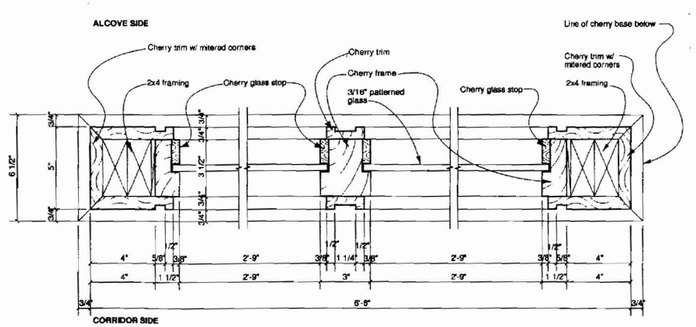
12 **Section Detail @ Relocated Granite Bench**
1 1/2" = 1'-0"



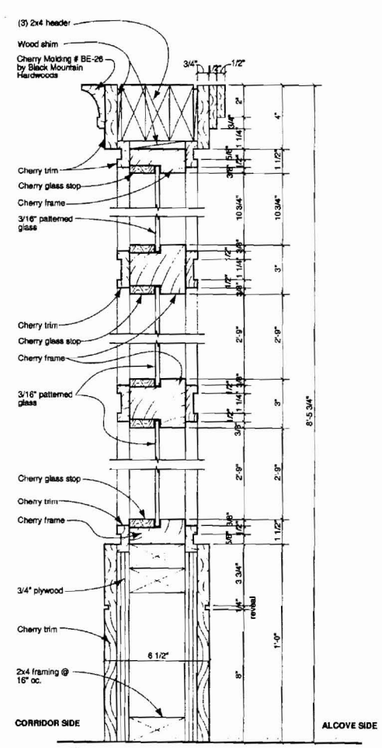
13 **Detail @ New Base on Existing Wall**
1 1/2" = 1'-0"

Note: Portion of connector beam is curved at Alcove 106 & 107. See A1

11 **Section Detail at Connector Beam**
3" = 1'-0"



10 **Plan Detail at Glazed Cherry Partition**
3" = 1'-0"



9 **Section Detail at Glazed Cherry Partition**
3" = 1'-0"

Conference Rooms

Renovation

Cumberland County

Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

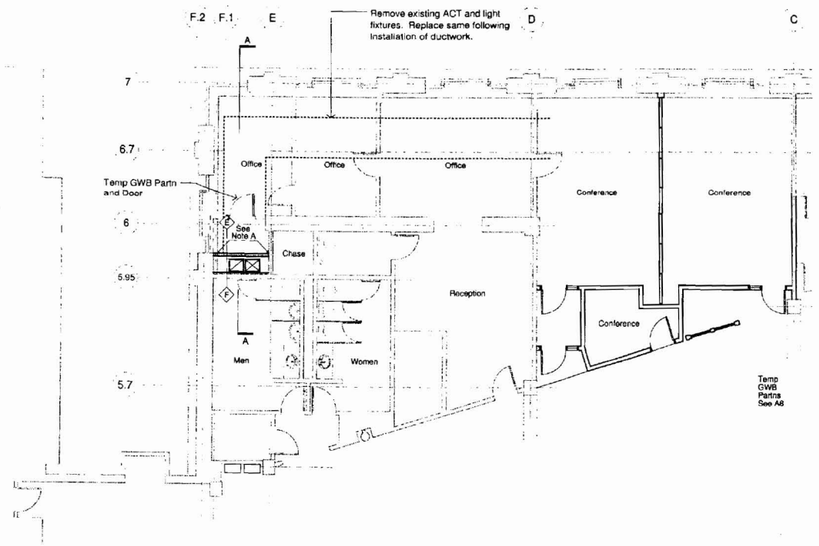
Allied Engineering

Westbrook, ME

A5

Glazing and Miscellaneous Details

May 7, 2004 | Scale: as indicated



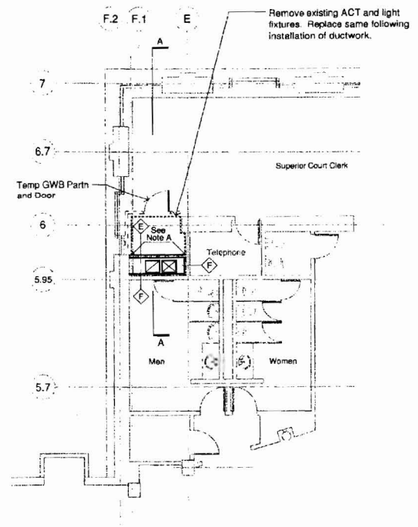
First Floor Plan

1/8" = 1' - 0"

0 4 8 16

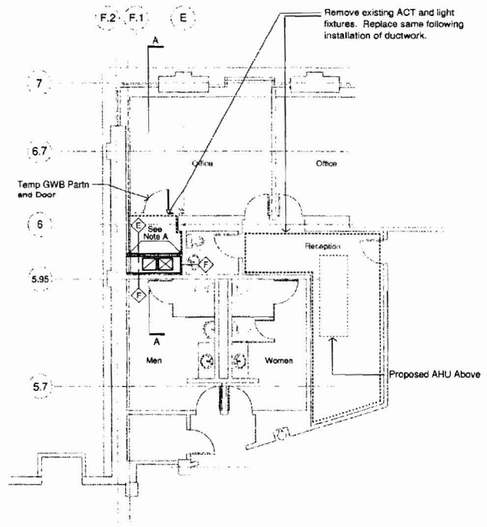
Notes

A Provide 3/4" x 8" Nat Finish Cherry Base To Match Existing Exactly



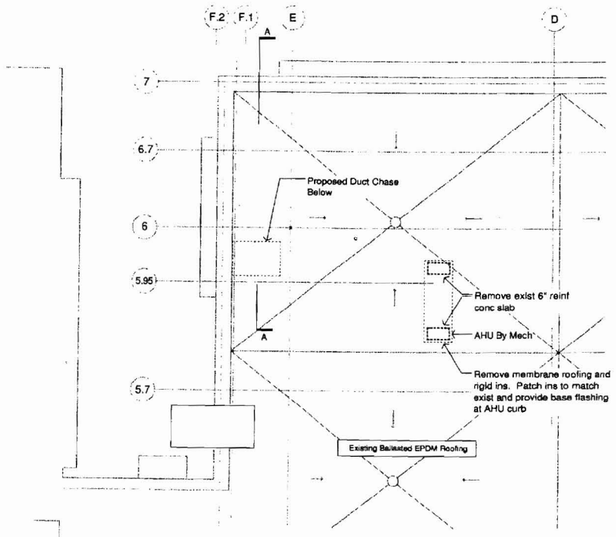
Second Floor Plan

1/8" = 1' - 0"



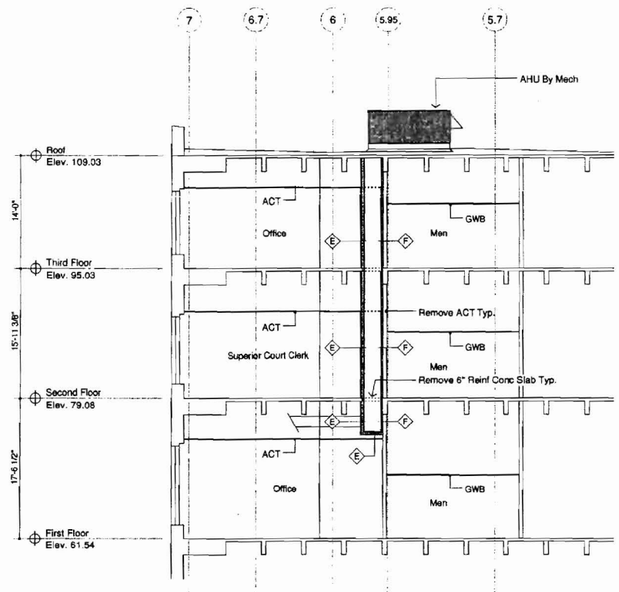
Third Floor Plan

1/8" = 1' - 0"



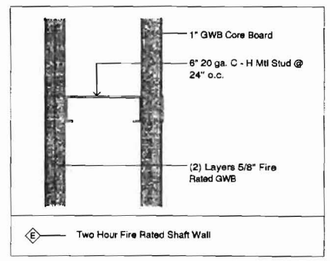
Roof Plan

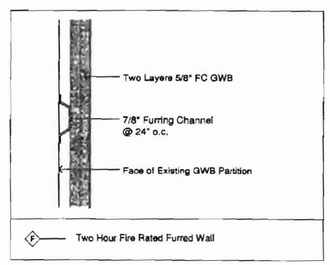
1/8" = 1' - 0"



A | A Proposed Mechanical Chase Section

1/8" = 1' - 0"





Duct Shaft Partition Types

3" = 1' - 0"

Conference Rooms

Renovation

Cumberland County

Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

Allied Engineering

Westbrook, ME

A 6

Mechanical Chase

May 7, 2004 | 1/8" = 1'-0"

Conference Rooms Renovation

First Floor

Cumberland County Superior Court

142 Federal Street

Portland, Maine 04101

For The County of Cumberland, Maine

Commissioners: Esther B. Clenott
Richard J. Feeney
Gary E. Plummer

Architect

Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207-774-4811

Mechanical and Electrical Engineer

Allied Engineering
One Westbrook Common
Westbrook, Maine 04092
207-854-8126

Abbreviations

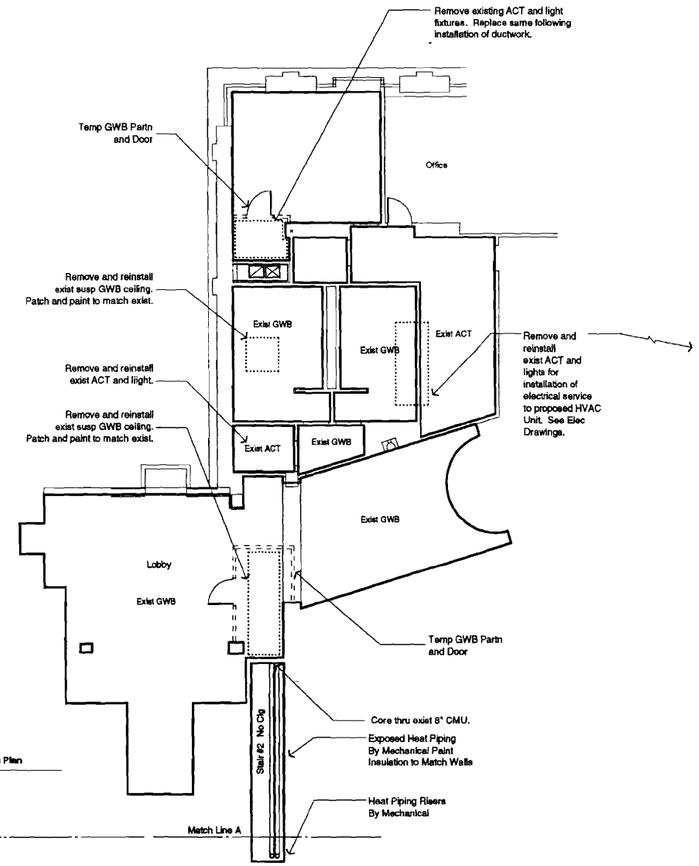
AB	Anchor Bolt	COL	Column	FL	Flush	LAM	Laminated	PARTN	Partition	STRUCT	Structure, Structural
ABV	Above	COMP	Compressible	FLR	Floor	LAV	Lavatory	PB	Particle Board	SUP	Support
ACT	Accustical Ceili g Tile	CONC	Concrete	FLSHG	Flashing	LF	Linear Feet	PC	Precast	SUSP	Suspended
ADJ	Adjustable, Adjacent	CONST	Construction	FSR	Flexible Sheet Roofing	LP	Low Point	PLAM	Plastic Laminate	SYM	Symmetrical
AFF	Above Finished Floor	CONT	Continuous			LPL	Low Pressure Laminate	PL	Plate		
AHU	Air Handling Unit	COORD	Coordinate	GA	Gauge			PLYWD	Plywood	T	Tread
ALT	Alternate	CPT	Carpet	GALV	Galvenized	MAS	Masonry	PPB	Prefinished Particle Board	TB	Tackboard
ALUM	Aluminum	CT	Ceramic Tile	GB	Grab Bar	MAT	Material	PREFIN	Prefinished	TEMP	Tempered
AP	Access Panel	CTSK	Countersunk Screw	GC	General Contractor	MAX	Maximum	PT	Pressure Treated	THK	Thick
ARCH	Architectural	CUH	Cabinet Unit Heater	GL	Glass			PTD	Painted	THR	Threshold
@	At			GWB	Gypsum Wall Board	MDO	Medium Density Overlay	QT	Quarry Tile	THRU	Through
		DBL	Double	GYP BD	Gypsum Board	MECH	Mechanical			TOC	Top of Concrete
B	Basement, Base	DF	Drinking Fountain			MFR	Manufacturer	R	Radius, Riser	TOS	Top Of Steel
BB	Bulletin Board	DH	Double Hung	HC	Handicapped, Hollow Core	MH	Man Hole	RAD	Radiator	TP	Toilet Paper
BD	Board	DIA	Diameter	HDW	Hardware	MIN	Minimum	RC	Resilient Channel	TR	Tack Rail
BET	Between	DIM	Dimension	HDWD	Hardwood	MIR	Mirror	RD	Roof Drain	TYP	Typical
BEV	Beveled	DRW	Drawer	HM	Hollow Metal	MISC	Miscellaneous	REF	Reference	T&B	Top And Bottom
BIT	Bituminous	DTL	Detail	HORIZ	Horizontal	MLDG	Molding	REFR	Refrigerator	T&G	Tongue And Groove
BLDG	Building	DW	Dishwasher	HP	High Point	MO	Masonry Opening	REINF	Reinforce, Reinforcing		
BLKG	Blocking	DWG	Drawing	HPL	High Pressure Laminate	MR	Moisture Resistent	REQD	Required	UC	Undercut
BM	Bench Mark, Beam			HR	Hour	MTG	Mounted, Mounting	RL	Rain Leader	UV	Unit Ventilator
BOT	Bottom	EA	Each	HT	Height	MTL	Metal	RM	Room		
BRK	Brick	EL	Elevation	HTG	Heating			RO	Rough Opening	V	Vinyl, Vent
		ELEC	Electrical	HW	Hot Water	NAT	Natural	RUB	Rubber	VB	Vapor Barrier
C	Course	ELEV	Elevator, Elevation			NIC	Not In Contract	SC	Solid Core	VCT	Vinyl Composition Tile
CAB	Cabinet	EQ	Equal	ID	Inside Diameter	NO	Number	SECT	Section	VERT	Vertical, Vertically
CAP	Capacity	EXH	Exhaust	INCL	Inclusive	NOM	Nominal	SF	Square Feet	VEST	Vestibule
CB	Chalk Board, Catch Basin	EXIST	Existing	INS	Insulation	NTS	Not To Scale	SHF	Shelf	VWC	Vinyl Wall Covering
CEM	Cement	EXP	Expansion	INT	Interior			SHT	Sheet		
CI	Cast Iron	EXT	Exterior	INV	Invert	OA	Overall	SMTH	Sheathing	WB	White Board
CJ	Control Joint			IS	Inside	OC	On Center	SIM	Similar	WC	Water Closet
		FC	Fire Code			OD	Outside Diameter	SPECS	Specifications	WD	Wood
CL	Center Line	FCH	Furring Channel	JC	Janitors Closet	OH	Overhead	SQ	Square	W/	With
CLG	Ceiling	FD	Floor Drain	JST	Joist	OPNG	Opening	SST	Stainless Steel	W/O	Without
CLO	Closet	FE	Fire Extinguisher	JT	Joint	OPP	Opposite	STD	Standard		
CLR	Clear	FFE	Finish Floor Elevation			OS	Outside	STL	Steel		
CMT	Ceramic Mosaic Tile	FIN	Finished	KIT	Kitchen			STO	Storage		
CMU	Concrete Masonry Unit										

Plan Set #2

Structural, Mechanical, Electrical and Ceiling And Additional Ceiling Work Drawings

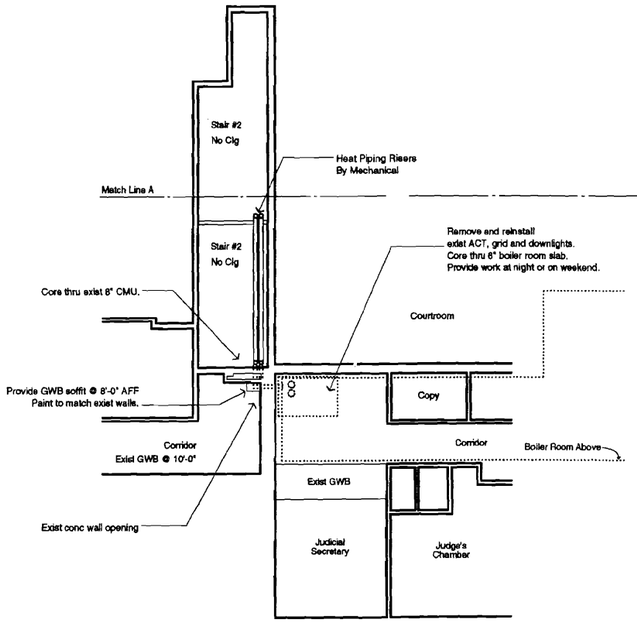
Release Date: May 14, 2004

Drawing List



Third Floor Reflected Ceiling Plan

1/8" = 1' - 0"



Second Floor Reflected Ceiling Plan

1/8" = 1' - 0"

North

0 4 8 16

REGISTERED ARCHITECT MARK M. WILCOX No. 1299 STATE OF MAINE

Conference Rooms

Renovation

Cumberland County

Courthouse

Portland, Maine

Architect :

Winton Scott Architects

Portland, ME

Mechanical / Electrical / Structural Engineering :

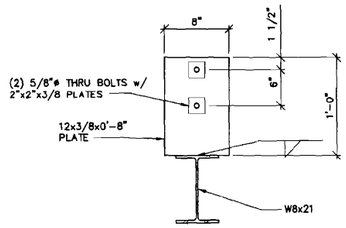
Allied Engineering

Westbrook, ME

A 7

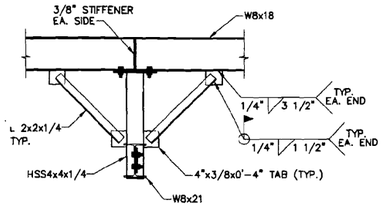
Ceiling Work

May 14, 2004 | 1/8" = 1'-0"

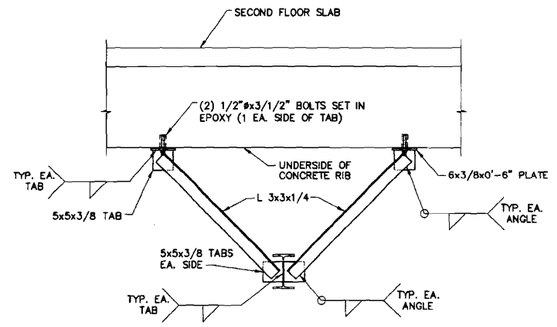


SECTION "A"

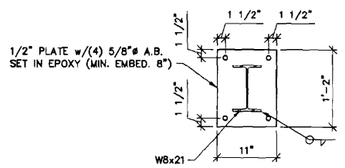
D1	DETAIL
3/4" = 1'-0"	



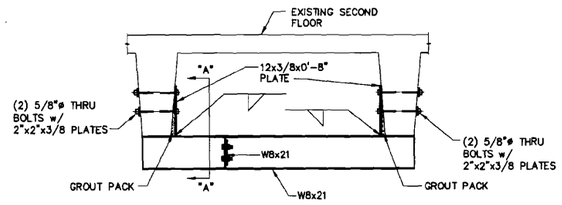
F4	DETAIL @ HANGING COLUMN
3/4" = 1'-0"	



F6	BEAM SUPPORT DETAIL
3/4" = 1'-0"	



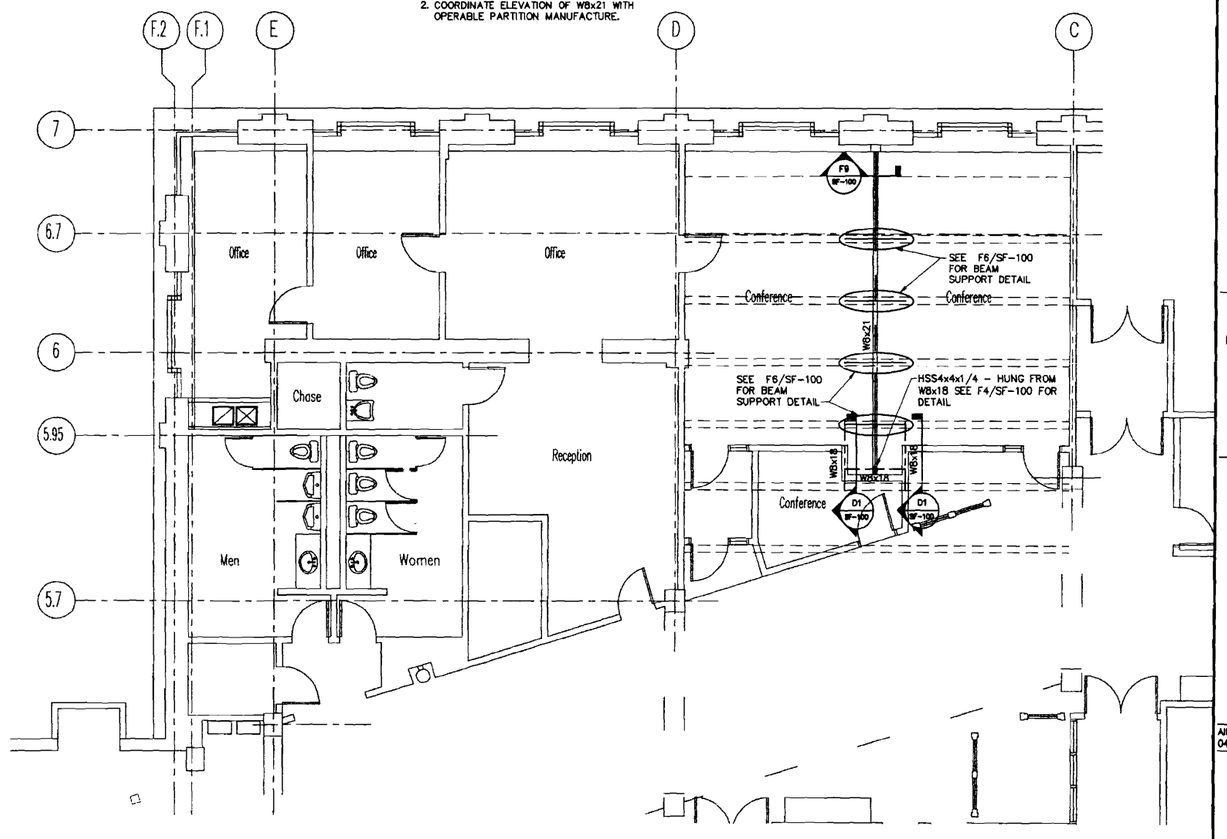
F9	DETAIL @ END WALL
1" = 1'-0"	



1. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE LATEST EDITION OF THE FOLLOWING BUILDING CODES: IBC 2000
2. THE CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER. TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES WITHOUT EXCEPTION.
3. ALL WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUBCONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.
4. ALL UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES OR AS INDICATED BY THE SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ALL ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND ALL TEMPORARY SHORING, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, REMOVAL OF WASTE MATERIAL, PROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUBCONTRACTORS AS REQUIRED FOR THE DURATION OF THE CONTRACT.

A1	GENERAL NOTES

NOTE:
1. PROVIDE HOLES IN BOTTOM FLANGE OF W8x21 FOR OPERABLE PARTITION.
2. COORDINATE ELEVATION OF W8x21 WITH OPERABLE PARTITION MANUFACTURE.



A4	STRUCTURAL PART PLAN
3/16" = 1'-0"	

STATE OF MAINE
WILLIAM P. BAUCHER
#7174
REGISTERED PROFESSIONAL ENGINEER

allied engineering, inc.

Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

Architect:
Winton Scott Architects
Portland, ME

Mechanical/Electrical/Structural Engineering:

Allied Project No.	Cad File:
04041	04041S.DWG

STRUCTURAL PART PLAN, NOTES AND DETAILS

SF-100

Date: 05-14-2004	Scale: AS NOTED

PIPE ELBOW TURNED DN
PIPE ELBOW TURNED UP
PIPING TEE DOWN
PIPING TEE UP
PIPE RISER
45° ELBOW DOWN
PIPING TO BE REMOVED
CAPPED PIPING
CAPPED BELOW FINISHED FLOOR
CONCENTRIC REDUCER
ECCENTRIC REDUCER
DIRECTION OF FLOW
PIPING PITCHES DOWN
PIPE GUIDE
EXPANSION JOINT
PIPE ANCHOR
UNION
FLANGED CONNECTION
BACKFLOW PREVENTER
FLEXIBLE CONNECTION
SHUT-OFF/ISOLATION VALVE REFER TO SPECIFICATIONS
GATE VALVE ~ OUTSIDE SCREW & YOKE (OS&Y)

GLOBE VALVE
LOCKABLE BALL VALVE
PLUG VALVE
2-WAY CONTROL VALVE
3-WAY CONTROL VALVE
LOCK & SHIELD VALVE
CHECK VALVE
AIR ELIMINATOR
BALANCING VALVE (CIRCUIT SETTER)
AUTOMATIC AIR VENT
MANUAL AIR VENT W/4" HIGH CHAMBER
STRAINER
STRAINER W/BLOWDOWN VALVE AND CAP
EXPANSION VALVE (AUTOMATIC)
RELIEF/SAFETY VALVE
PRESSURE GAUGE/COCK
SIGHT GLASS
PRESSURE REDUCING VALVE

FLOW SWITCH
SELF-CONTAINED TEMP. CONTROL VALVE WITH REMOTE SENSOR
STEAM TRAP (FLOAT & THERMOSTATIC INDICATED T.T. = THERMOSTAT, B.T. = BUCKET TRAP)
PUMP ~ POINT OF TRIANGLE INDICATES DIRECTION OF FLOW
GAS SHUT-OFF VALVE
HOSE END DRAIN VALVE W/CAP
TEMPERATURE/PRESSURE TAP (PETE'S PLUG)
THERMOMETER/COCK
SOLENOID VALVE
ORIFICE FLOWMETER
DIFFERENTIAL PRESSURE TRANSMITTER
HUMIDIFIER
FINNED TUBE BASEBOARD
HOSE BIB/WALL HYDRANT
FLOOR CLEANOUT
FUSIBLE LINK VALVE

WALL CLEANOUT
AQUASTAT
EXPANSION LOOP
FLOOR DRAIN
SHOCK ABSORBER (WATER HAMMER ARRESTER)
FIRE DEPARTMENT CONNECTION
FREE STANDING FIRE DEPARTMENT CONNECTION
WATER GONG

D1	PIPING SYMBOLS LEGEND
NONE	

DUCTWORK ~ FIRST DIMENSION IS SIDE SHOWN IN INCHES S= SUPPLY, R= RETURN, E= EXHAUST, FA= FRESH AIR F.O. = FLAT OVAL
ACCOUSTICAL LINING (DUCT DIMENSION FOR NET FREE AREA)
DUCTWORK TO BE REMOVED
DUCT TRANSITION
SQUARE TO ROUND TRANSITION
FLEX DUCT ~ DOUBLE LINE
FLEX DUCT ~ SINGLE LINE
CHANGE IN ELEVATION (UP OR DOWN)
SUPPLY DUCT TURNED UP/DN
RETURN DUCT TURNED UP/DN
EXHAUST DUCT TURNED UP/DN
ROUND DUCT TURNED UP/DN
MITERED DUCT ELBOW W/TURNING VANES
RADIUS DUCT ELBOW
DUCT/PIPE CAP (SINGLE/DOUBLE LINE)

SMOKE DAMPER
DAMPER ~ FIRE
FIRE AND SMOKE DAMPER
VOLUME DAMPER
BACKDRAFT DAMPER
DAMPER ~ MOTORIZED
FLEXIBLE CONNECTOR
THERMOSTAT OR TEMP. SENSOR (AS SPECIFIED)
HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)
SWITCH
ACCESS PANEL
DUCT SMOKE DETECTOR
FAN ~ EXHAUST ROOF
FAN ~ SUPPLY ROOF VENT
CEILING DIFFUSER ~ 4-WAY BLOW
CEILING DIFFUSER ~ 3-WAY BLOW

CEILING DIFFUSER ~ 2-WAY BLOW
CEILING DIFFUSER ~ CORNER BLOW
CEILING RETURN GRILLE
CEILING EXHAUST GRILLE
POINT OF CONNECTION EXISTING TO NEW
DIRECTION OF AIR FLOW (SUPPLY)
DIRECTION OF AIR FLOW (RETURN)
R, G & D TAG — DIFFUSER, REGISTER OR GRILLE No. — QUANTITY — CFM AIR FLOW
FINTUBE TAG — FINTUBE No. — LENGTH — GPM
VAV TAG — VAV No. — MINIMUM CFM — MAXIMUM CFM — GPM
EQUIPMENT TAG — TYPE DESIGNATOR — NUMBER
DETAIL No. — DETAIL REFERENCE SYMBOL — SHEET DETAIL LOCATED ON
SECTION No. — SECTION REFERENCE SYMBOL — SHEET SECTION LOCATED ON

D6	AIR DISTRIBUTION SYMBOLS LEGEND
SCALE	

ACID	ACID WASTE
AR	ARGON
ATV	AIR RELIEF
BBD	BOILER BLOWDOWN
C	CONDENSATE
C	CONDENSATE (BELOW FLOOR)
CA	COMPRESSED AIR
CDA	CLEAN DRY AIR
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC WATER RECIRC.
D	DRAIN
FOD	FUEL OIL DISCHARGE
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
GHR	GLYCOL HEATING RETURN
GHS	GLYCOL HEATING SUPPLY
H	HUMIDIFICATION LINE
H2	HYDROGEN GAS
HPH2	HIGH PRESSURE HYDROGEN GAS
HCV	HOUSE CLEANING VAC.
HE	HELIUM GAS
HPC	HIGH-PRESSURE CONDENSATE
HPS	HIGH-PRESSURE CONDENSATE SUPPLY
HTWR	HIGH-TEMP. HOT WATER RETURN
HWR	LOW-HOT. WATER RETURN
HWS	HOT WATER SUPPLY
IND	INDUSTRIAL WASTE
IW	INDIRECT DRAIN
LN	LIQUID NITROGEN
LOX	LIQUID OXYGEN
LPC	LOW-PRESSURE CONDENSATE
LPG	LIQUID PETROLEUM GAS
LPS	LOW-PRESSURE STEAM
MA	MEDICAL AIR
MPC	MEDIUM-PRESSURE CONDENSATE
MPS	MEDIUM-PRESSURE STEAM
MU	MAKEUP WATER
N2	NITROGEN
NG	NATURAL GAS
NO	NITROUS OXIDE
NPW	NON-POTABLE WATER
OX	OXYGEN
PC	PUMPED CONDENSATE
PCWR	PROCESSED COLD WATER RETURN
PCWS	PROCESSED COLD WATER SUPPLY
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	SANITARY SOIL WASTE (ABOVE FLOOR)
	SANITARY SOIL WASTE (BELOW FLOOR)
	SANITARY SOIL VENT (ABOVE FLOOR)
	SANITARY SOIL VENT (BELOW FLOOR)
SV	SANITARY WASTE & VENT COMBINATION
SD	STORM DRAIN ABOVE FLOOR OR GRADE
SD	STORM DRAIN BELOW FLOOR OR GRADE
SP	SPRINKLER MAIN PIPING
SW	SOFT WATER
TP	TRAP PRIMER PIPING ABOVE GRADE
TP	TRAP PRIMER PIPING BELOW GRADE
TWR	TEMPERED RETURN WATER
TWS	TEMPERED SUPPLY WATER
VAC	VACUUM (AIR)
VC	VACUUM CLEANING
VPD	VACUUM PUMP DISCHARGE

A1	PIPING LINETYPE LEGEND
NONE	

AAV	AUTOMATIC AIR VENT	DT	DROP AND TRANSITION	MBH	1000 BTU/HR.	TP	TRAP PRIMER
AC	ABOVE CEILING	DV	DRAIN VALVE	MFR	MANUFACTURER	TSP	TOTAL STATIC PRESSURE
ACC	AIR COOLED CONDENSER	DWG	DRAWING	MIN	MINIMUM	TTS	TIGHT TO STEEL
ACU	AIR CONDITIONING UNIT	EA	EXHAUST AIR	MOD	MOTOR OPERATOR DAMPER	TV	TURNING VANE
ADA	AMERICANS WITH DISABILITIES ACT	EF	EXHAUST FAN	MPG	MEDIUM PRESSURE GAS	TW	TEMPERED WATER
AD	ACCESS DOOR	EL; ELEV	ELEVATION	MPV	MULTI-PURPOSE VALVE	TYP	TYPICAL
AE	ACID EXHAUST	ELONG	ELONGATE	MTD	MOUNTED	UH	UNIT HEATER
AW	ACID WASTE	ENC	ENCLOSURE	MTG	MOUNTING	UIC	UP IN CHASE
AFF; A.F.F.	ABOVE FINISHED FLOOR	ER	EXHAUST REGISTER	MUA	MAKE UP AIR	UIW	UP IN WALL
AHU	AIR HANDLING UNIT	ET	EXPANSION TANK	N.C.	NORMALLY CLOSED	UV	UNIT VENTILATOR
AP	ACCESS PANEL	EX.; (E)	EXISTING	N.O.	NORMALLY OPEN	V	VENT
APPROX	APPROXIMATE; APPROXIMATELY	F & T	FLOAT AND THERMOSTATIC	NIC	NOT IN CONTRACT	VB	VACUUM BREAKER
APWR	AS PER MFR'S RECOMMENDATIONS	FBO	FURNISHED BY OTHERS	NPT	NATIONAL PIPE THREAD	VCFF	VALVE & CAP FOR FUTURE
ATC	AUTOMATIC TEMPERATURE CONTROL	FBP	FACE AND BYPASS	NTS	NOT TO SCALE	VD	VOLUME DAMPER - MANUAL
AV	AIR VENT	FC	FLEXIBLE CONNECTION	OA	OUTSIDE AIR	VLV	VALVE
BC	BALANCING COCK	FCO	FLOOR CLEANOUT	OBD	OPPOSED BLADE DAMPER	VS	VENT STACK
BDD	BACKDRAFT DAMPER	FD-#	FLOOR DRAIN TAG	OED	OPEN ENDED DUCT	VTR; V.T.R.	VENT THROUGH ROOF
BG	BLAST GATE	FD	FIRE DAMPER	P-#	PLUMBING FIXTURE TAG	W	WASTE
BF	BARRIER FREE	FIN	FINISH	PD	PUMPED DISCHARGE	W/	WITH
BFP	BACKFLOW PREVENTER	FL	FLOOR	PPE	PRE PURCHASED EQUIPMENT	WB	WET BULB TEMPERATURE, °F
BLDG	BUILDING	FTG	FOOTING	PRS	PRESSURE REDUCING STATION	WCO	WALL CLEANOUT
BOD	BOTTOM OF DUCT	FTR	FINNED TUBE RADIATION	PRV	PRESSURE REDUCING VALVE	WH	WATER HEATER
B.T.U.	BRITISH THERMAL UNIT	FS	FLOW SWITCH	RA	RETURN AIR	WHYD	WALL HYDRANT
C; CONV.	CONVECTOR	FM	FORCE MAIN	RD	ROOF DRAIN	NTS	NOT TO SCALE
CFT	CAPPED FOR FUTURE	GC	GENERAL CONTRACTOR	REC	RECOMMENDATION	12"ø	12" DIAMETER DUCT
CFM	CUBIC FEET PER MINUTE	GPM	GALLONS PER MINUTE	REG	REGULAR	@	AT
CLG	CEILING	GV	GRAVITY VENTILATOR	RF	RETURN FAN	&	AND
C.O.	CLEANOUT	H	HUMIDIFIER	RG	RETURN GRILLE	%	PERCENT
CM	CONSTRUCTION MANAGER	HC;HBIDC	HOSE BIB	RHC	REHEAT COIL		
CNTR	COUNTER; COUNTERTOP	HGT, HT.	HANDICAP ACCESS HEIGHT	RM	ROOM		
CONN	CONNECT; CONNECTION	HP	HEAT PUMP	RPZ	REDUCED PRESSURE BFP		
CONT	CONTINUE; CONTINUATION	HPT	HOSE PIPE THREAD	RR	RETURN REGISTER		
COORD	COORDINATE	HRU	HEAT RECOVERY UNIT	RV	RELIEF VALVE		
CORR	CORRIDOR	HTR	HEATER	S	SUPPLY AIR		
CR	CHEMICAL RESISTING	H & V	HEATING AND VENTILATION	SA-" "	SHOCK ABSORBER OF PDI SIZE (" ") AS INDICATED		
CT	COOLING TOWER	HVAC	HEATING, VENTILATING, & AIR COND.	SL	SOIL		
CTE	CONNECT TO EXISTING	HW	HOT WATER	SCV	SELF CONTAINED VALVE		
CTR	CENTER	HWR	HOT WATER RETURN	SD	SMOKE DAMPER		
CTRLN	CENTERLINE	HX	HEAT EXCHANGER	SF	SUPPLY FAN		
CU	COPPER	IN WG	INCHES WATER GAUGE	SG	SUPPLY GRILLE		
CUH	CABINET UNIT HEATER	INCL	INCLUDING	SGL	SINGLE		
C.V.	CONTROL VALVE	INV EL	INVERT ELEVATION	SHT	SHEET		
CW	COLD WATER	IPS	IRON PIPE SIZE	SK	SINK		
DB	DRY BULB TEMPERATURE, °F	KE-#	KITCHEN EQUIPMENT NUMBER	SPLR	SPRINKLER		
DC	DOUBLE CONTAINED	LD	LINEAR DIFFUSER	SQ FT	SQUARE FEET		
DDC	DIRECT DIGITAL CONTROL	LE-#	SCIENCE LAB EQUIPMENT NUMBER	S/O	SHUT OFF		
DET	DETAIL	LPG	LIQUID PETROLEUM GAS	SR	SUPPLY REGISTER		
DIA	DIAMETER	LPR	LOW PRESSURE STEAM RETURN	SS; S.S.	STAINLESS STEEL		
DIC	DOWN IN CHASE	LPS	LOW PRESSURE STEAM SUPPLY	TG	TRANSFER GRILLE		
DIW	DOWN IN WALL	MAX	MAXIMUM	TOD	TOP OF DUCT		
DN	DOWN						
DS	DOWNSPOUT						

A4	ABBREVIATIONS
NONE	

NOTE

ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL 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.

STATE OF MAINE — ANTHONY R. DAVIS #8834 — REGISTERED PROFESSIONAL ENGINEER

Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

Architect:
Winton Scott Architects
Portland, ME

Mechanical/Electrical/Structural Engineering:
allied engineering, inc.

Allied Project No. 04041 | Cad File: 04041M.DWG

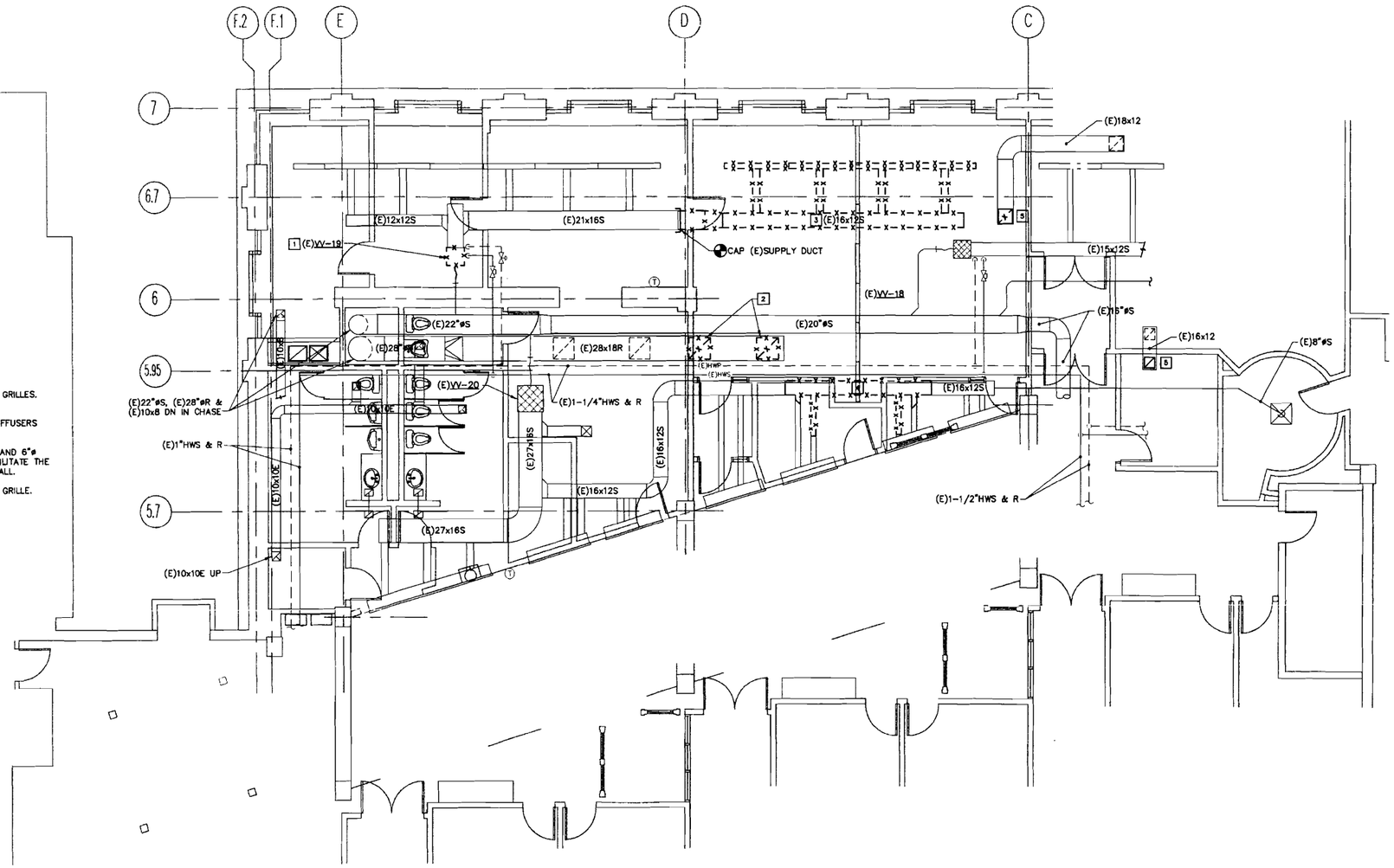
Plumbing and HVAC Notes, Legend, and Abbreviations

MH-000

Date: 05-14-2004 | Scale: AS NOTED

DEMOLITION KEY NOTES

1. REMOVE (E)VV-19 COMPLETE.
2. REMOVE AND RELOCATE (E)TRANSFER GRILLES. CAP OPENINGS IN DUCT.
3. REMOVE SUPPLY DUCT AND LINEAR DIFFUSERS COMPLETE.
4. REMOVE SECTION OF (E)16x12S MAIN AND 6"ø BRANCH DUCTS AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW DIVIDER WALL.
5. REMOVE AND RELOCATE (E)TRANSFER GRILLE.



A1	MECHANICAL DEMOLITION PLAN
3/16" = 1'-0"	

STATE OF MAINE
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Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

Architect:
Winton Scott Architects
Portland, ME

Mechanical/Electrical/Structural Engineering:

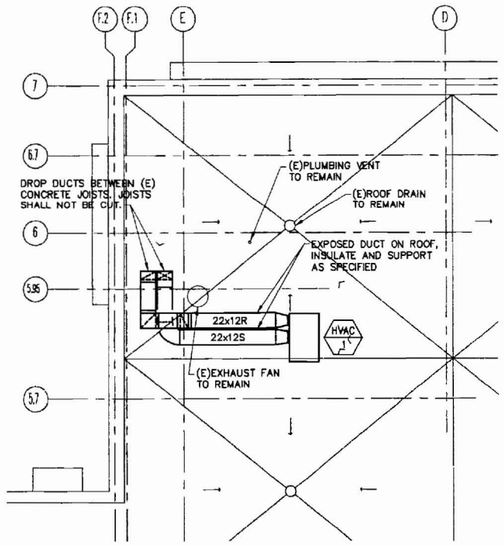
allied
engineering, inc.

Allied Project No.	Cad File:
04041	04041M.DWG

Mechanical Demolition Plan

MD-100

Date: 05-14-2004 | Scale: AS NOTED



(PACKAGED) ROOFTOP UNIT SCHEDULE

	ITEM	RTU-1
GENERAL	SERVES	
	MFR	TRANE
	MODEL	THC 060 HIGH EFF.
	NOMINAL TONS	5
	VOLTS-PH+Z	208/3/60
	MCA / MOP	28.8/45
FILTER SECTION	PRE-FILTERS	30% - 1"
	MIN. AREA, sf	3.3
	VELOCITY	500
SUPPLY FAN	DRIVE	BELT
	AIRFLOW, CFM	1,850
	MIN. OUTSIDE AIR	330
	MAX. OUTSIDE AIR	1,850
	E.S.P. in wc.	1.2"
	RPM	1130
	RATED HP	0.89
ECONOMIZER	POWER EXHAUSTER	YES
	ELECTRICAL	----
	RPM	----
	HP	----
DX COOLING COIL	ENT. AIR, DB/WB(100% OA)	89/71
	TMBTUH	58.7
	SMBTUH	40.7
	TONS	5.0
	MIN COIL AREA, sf.	7.71
	COIL FACE VELOCITY	214
CONDENSING SECTION	ESP AT ARI CONDITIONS	
	REFRIGERANT	R22
	AMBIENT DB, deg-F.	95
	MIN OA TEMP, deg-F.	0
	SCROLL COMP QTY.	1
	SCROLL COMP RLA (ea.)	17.4
	SCROLL COMP LRA (ea.)	123
	COND. FAN QTY	1
	COND FAN FLA (ea.)	2.0
	MIN. COOLING STAGES	1
OVERALL DIMENSIONS	LENGTH	5-10"
	WIDTH	3'-4"
	HEIGHT	3'
	CURB HEIGHT	1'-2"
	OVERALL HEIGHT	4'-2"
	OPERATING WEIGHT, lbs.	650

NOTES:

DUCT HEATING COIL SCHEDULE

TAG	AIRFLOW	LENGTH	HEIGHT	FACE VEL	EDB	LDB	MBH	MAX APD	GPM	EWT	LWT	MAX WPD	RUNOUT SIZE
HC-1	1850	28	18	507	-20	55	134.3	0.2"	9.0	180	150	3"	1 1/2"

NOTES:

REGISTERS - GRILLES - DIFFUSERS SCHEDULE

TAG	MFR	MODEL	TYPE	NOMINAL DUCT SIZE	FACE SIZE	CFM RANGE	MAX TOTAL PRESSURE DROP	MAX NC LEVEL	NOTES
S1	TITUS	TMS	A	8" DIA	24" x 24"	0-150	0.07"	16	
S2	TITUS	TMS	A	10" DIA	24" x 24"	279-440	0.07"	22	
E1	TITUS	350RL	C	12" x 12"	13 3/4" x 13 3/4"	171-440	0.05"	27	
E2	TITUS	350RL	C	18" x 12"	19 3/4" x 13 3/4"	441 - 670	0.05"	27	

NOTES:
1. DIFFUSER BRANCH DUCT SIZE SHALL EQUAL ROUND NECK SIZE UNLESS SHOWN OTHERWISE ON PLANS
2. BORDER TYPE SHALL MATCH MOUNTING CONDITIONS FOR ALL R-G-DS, COORNATE WITH PLANS.

TYPES:
- A SQ. CEILING SUPPLY DIFFUSER
- B DOUBLE DEFLECTION REGISTER
- C STEEL RETURN GRILLE, 3/4" SPACING, 35 DEG VANES
- D STEEL RETURN GRILLE, 3/4" SF
- E ALUM. RETURN GRILLE, 3/4" SPACING, 35 DEG VANES
- F ALUM. RET. REG, 3/4" SPACG, 35 DEG VANES
- G ALUM. HD GYM RET. GRILLE, 1/2" SPACG, 0 DEG VANES

VAV BOX SCHEDULE

TAG	MFR - MODEL	CFM MIN	CFM MAX	INLET SIZE	OUTLET SIZE	MAX RAD NC	MIN. INLET STATIC PRESSURE	MBH	GPM	MAX WPD	EWT	EAT	LAT	ROWS	RUNOUT SIZE
VV-C1	TRANE VCWE-11	350	700	8	15"x12"	30	0.5"	26.8	2.0	1.06'	180	55	90	2	3/4"
VV-C2	TRANE VCWE-11	350	700	8	15"x12"	30	0.5"	26.8	2.0	1.06'	180	55	90	2	3/4"
VV-C3	TRANE VCWE-03	50	100	5	12"x10"	30	0.10"	2.2	0.5	0.79'	180	55	95	1	1/2"
VV-C4	TRANE VCWE-03	75	100	5	12"x10"	30	0.10"	3.3	0.6	0.79'	180	55	95	1	1/2"
VV-19R	TRANE VCWE-17	700	1400	10	21"x16"	30	0.5"	26.0	2.0	1.19'	180	55	95	2	1/2"
BD-1	TRANE VADA 010	0	825	10	10" DIA	---	---	---	---	---	---	---	---	---	---

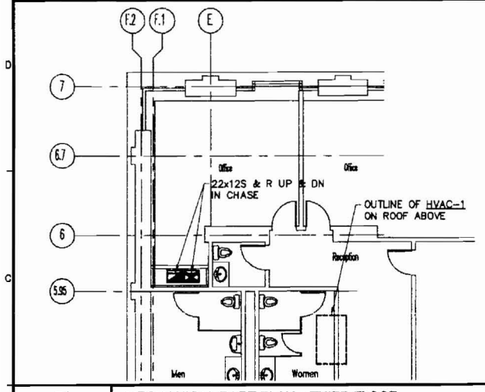
NOTES:
VV-19R shall incorporate pneumatic controllers to match existing VV-19. Control for VV-19R shall operate as VV-19 currently operates.

PUMP SCHEDULE

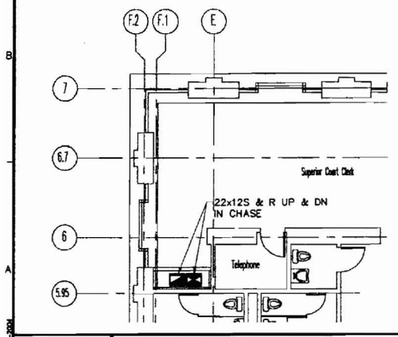
TAG	SERVES	TACO MODEL	TYPE	GPM	HEAD	RPM	NPSH FT	BHP	MOL HP	MOTOR HP	SUCT / DISCH	VOLTS/ PH	NOTES
P-1	HEATING COILS	1615	INLINE	14	25	1750	5	0.27	0.4	0.33	1.5 x 1.5	115/1	
P-2	SECONDARY	IL113	INLINE	9	15	1750				0.12	3/4x3/4	115/1	

NOTES:

D1 | MECHANICAL PART PLAN ~ ROOF
1/8" = 1'-0"

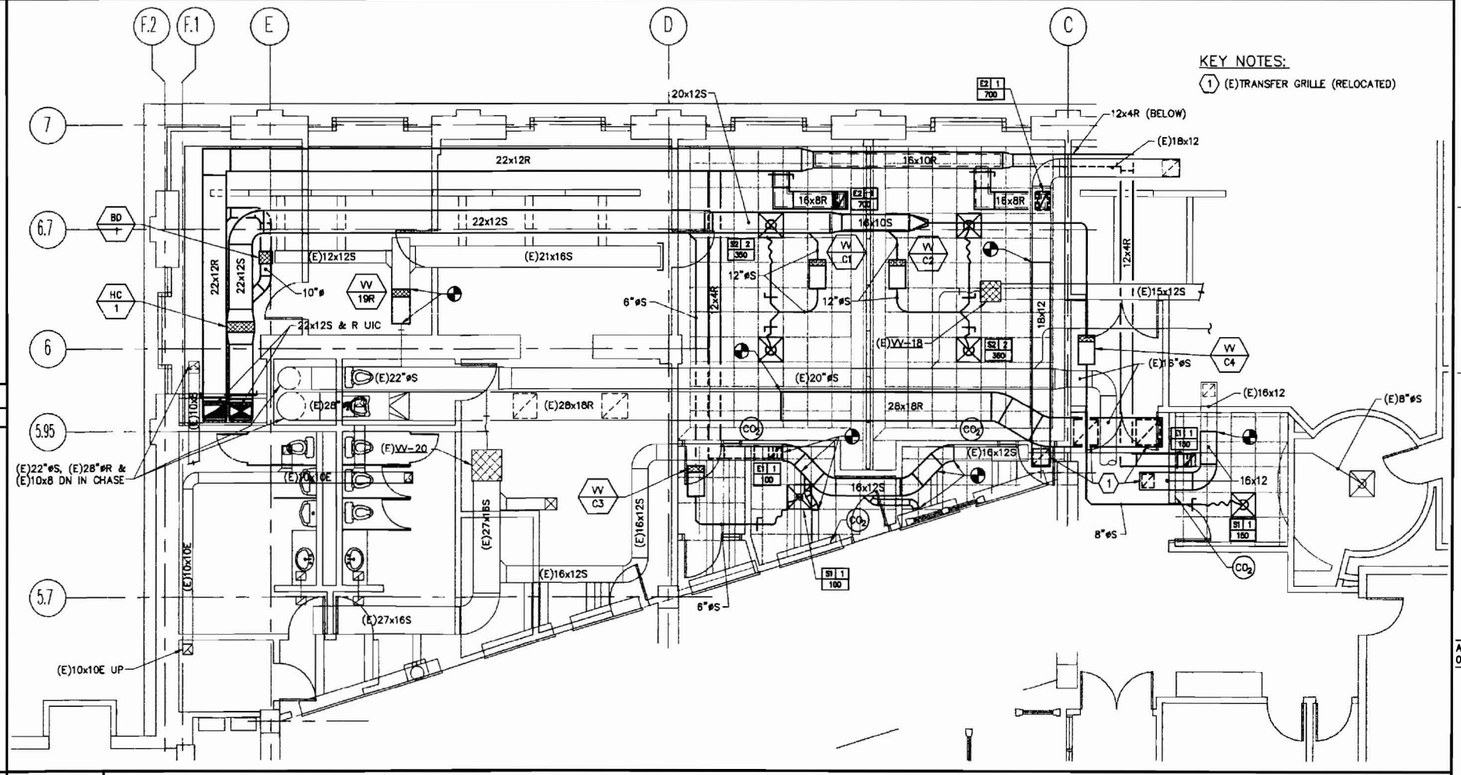


C1 | MECHANICAL PART PLAN ~ THIRD FLOOR
1/8" = 1'-0"



A1 | MECHANICAL PART PLAN ~ SECOND FLOOR
1/8" = 1'-0"

D3 | MECHANICAL SCHEDULES
NONE



A3 | MECHANICAL PART PLAN ~ FIRST FLOOR
3/16" = 1'-0"

STATE OF MAINE
ANTHONY & DAVIS #8834
REGISTERED PROFESSIONAL ENGINEER

Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

Architect:
Winton Scott Architects
Portland, ME

Mechanical/Electrical/Structural Engineering:

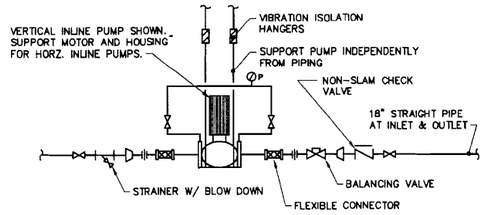
allied engineering, inc.

Allied Project No. 04041 | Cad File: 04041M.DWG

Mechanical Part Plans and Schedules

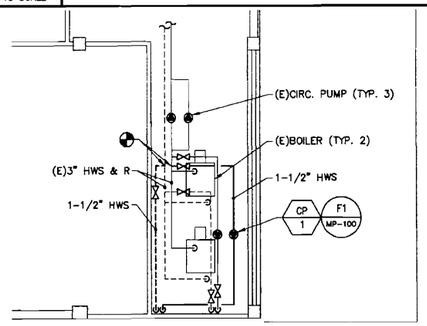
MH-100

Date: 05-14-2004 | Scale: AS NOTED



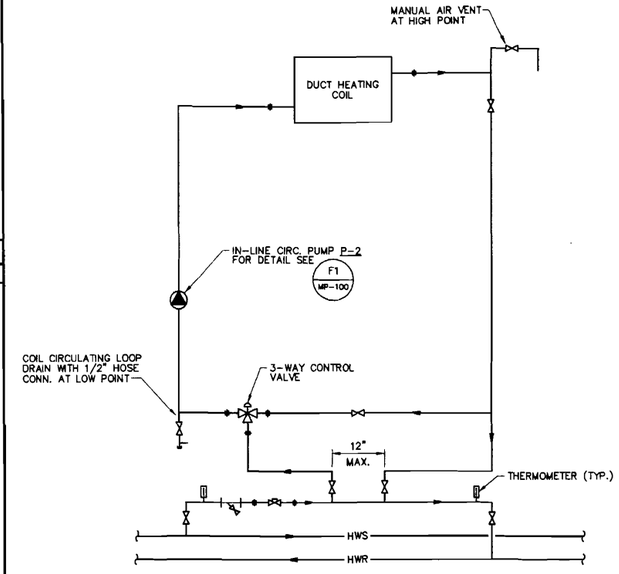
F1 DETAIL ~ VERTICAL IN-LINE PUMP

NOT TO SCALE



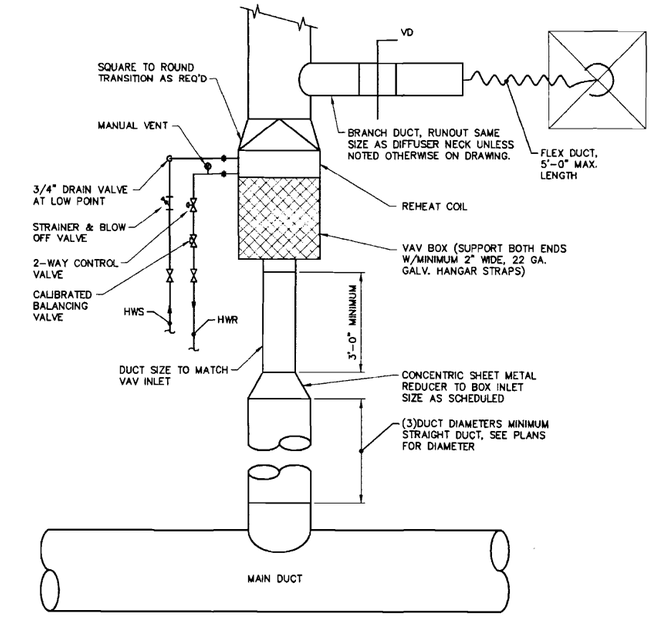
D1 BOILER ROOM PART PLAN

1/8" = 1'-0"



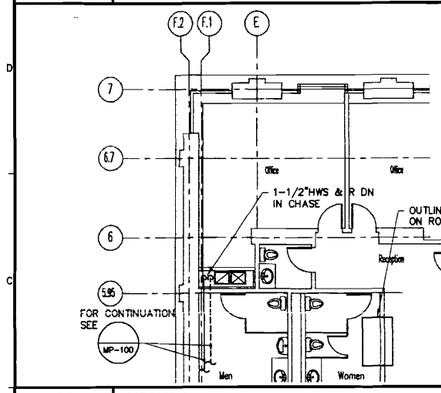
D3 DETAIL ~ DUCT HEATING COIL PIPING

NOT TO SCALE



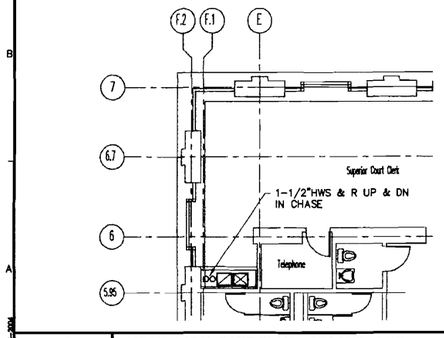
D7 DETAIL ~ VAV BOX SCHEMATIC

NO SCALE



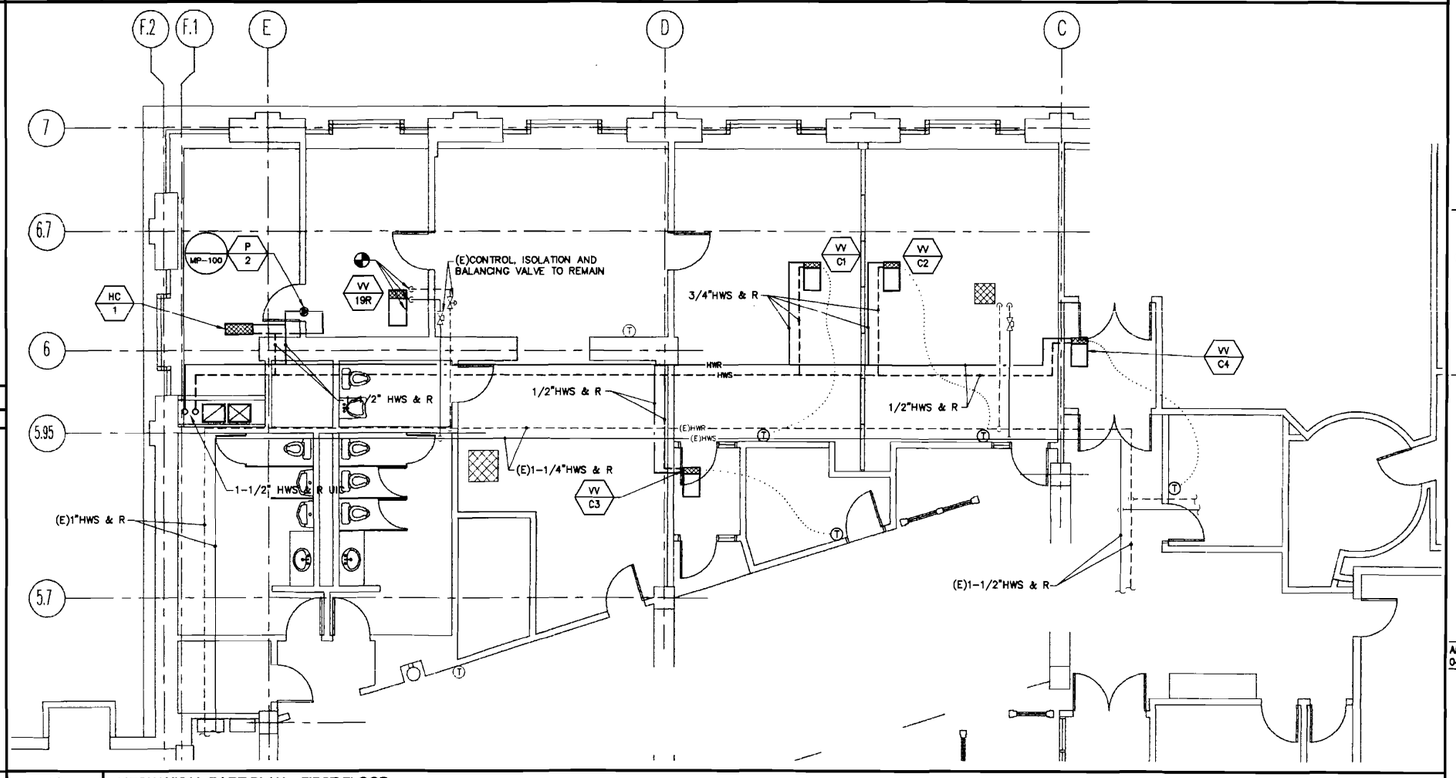
C1 MECHANICAL PART PLAN ~ THIRD FLOOR

1/8" = 1'-0"



A1 MECHANICAL PART PLAN ~ SECOND FLOOR

1/8" = 1'-0"



A3 MECHANICAL PART PLAN ~ FIRST FLOOR

3/16" = 1'-0"

STATE OF MAINE ANTHONY B. DAVIS #8834 REGISTERED PROFESSIONAL ENGINEER

Conference Rooms Renovation

Cumberland County Courthouse

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Mechanical/Electrical/Structural Engineering:
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Allied Project No.	Cad File:
04041	04041M.DWG

Mechanical Piping Part Plans and Details

MP-100

Date: 05-14-2004	Scale: AS NOTED

LIGHT FIXTURE ~ RECESSED PARABOLIC TROFFER ~ TYPICAL
F1 — INDICATES LIGHT FIXTURE TYPE ON LUMINAIRE SCHEDULE
a — LOWER CASE LETTER INDICATES SWITCHING ~ TYPICAL
2 — NUMBER INDICATES CIRCUITING ~ TYPICAL

RECESSED DOWNLIGHT

WALL MOUNTED LIGHT FIXTURE ~ TYPICAL

PENDANT LIGHT FIXTURE ~ TYPICAL

~ CENTERLINE 48" AFF ~

LIGHT SWITCH ~ 20A,125/277V
LETTER INDICATES SWITCHING

KEY OPERATED SWITCH

MULTI-GANGED SWITCHES ~ GANG UNDER ONE PLATE ~
LETTER INDICATES SWITCHING

OS — OCCUPANCY SENSOR SWITCH, WALL MOUNTED

PANELBOARD ~ SURFACE MOUNTED

NON-FUSED DISCONNECT SWITCH

MOTOR

JUNCTION BOX ~ CEILING MOUNTED

HOMERUN ~ (2)#12+(1)#12G UNO ~ 20A 1POLE CB UNO

FLEXIBLE CONNECTION

FUSED DISCONNECT SWITCH

~ MOUNT WITH CENTERLINE 18"AFF UNO ~
~ MOUNT EXTERIOR WITH CENTERLINE 24"AFG UNO ~

DUPLEX RECEPTACLE ~ 20A, 125V

WP — GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF

SMOKE DETECTOR

AUDIO/VISUAL INDICATING APPLIANCE
~ CANDELA AS NOTED ON PLANS

SSC — SECURITY CAMERA

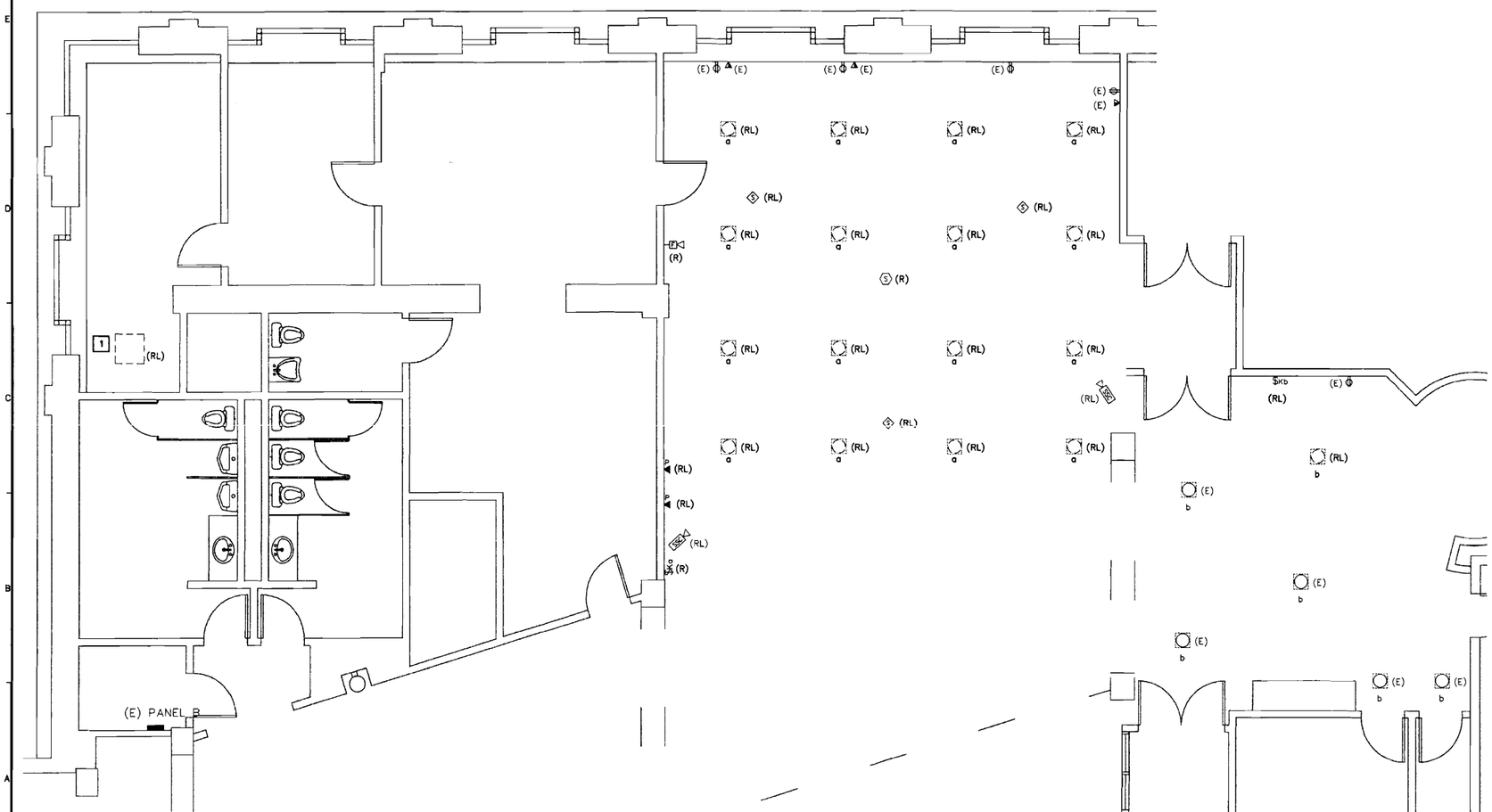
S — SPEAKER ~ CEILING MOUNTED

P — PAY TELEPHONE OUTLET ~ 18"AFF UNO

TELEPHONE/DATA OUTLET ~ 18" AFF UNO

AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
BRKRS	CIRCUIT BREAKERS
P/O	PART OF
WG	WIREGUARD
CB	CIRCUIT BREAKER
MT	MOUNT
(E)	EXISTING ITEM TO REMAIN
(R)	REMOVE ITEM AND TURN OVER TO OWNER
(ER)	RELOCATED ITEM AT NEW LOCATION
(RL)	REMOVE AND RELOCATE

A1 — ELECTRICAL LEGEND



A1 — ELECTRICAL DEMOLITION PLAN
3/16" = 1'-0"

1. BRANCH CIRCUIT WIRING NOT SHOWN. CONNECT ITEMS TO CIRCUITS INDICATED.

2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 16 AND OTHER DIVISIONS.

3. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

4. 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 STRUCTURAL/ARCHITECTURAL REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.

5. ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.

6. COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.

7. VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN.

8. POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 16. CONTROL WIRING FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 15.

9. NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.

B9 — ELECTRICAL GENERAL NOTES

1 — REMOVE AND RELOCATE LIGHT FIXTURES ON SECOND AND THIRD FLOORS SIMILAR TO CONDITION INDICATED FOR FIRST FLOOR.

A9 — DEMOLITION KEY NOTES

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Portland, ME

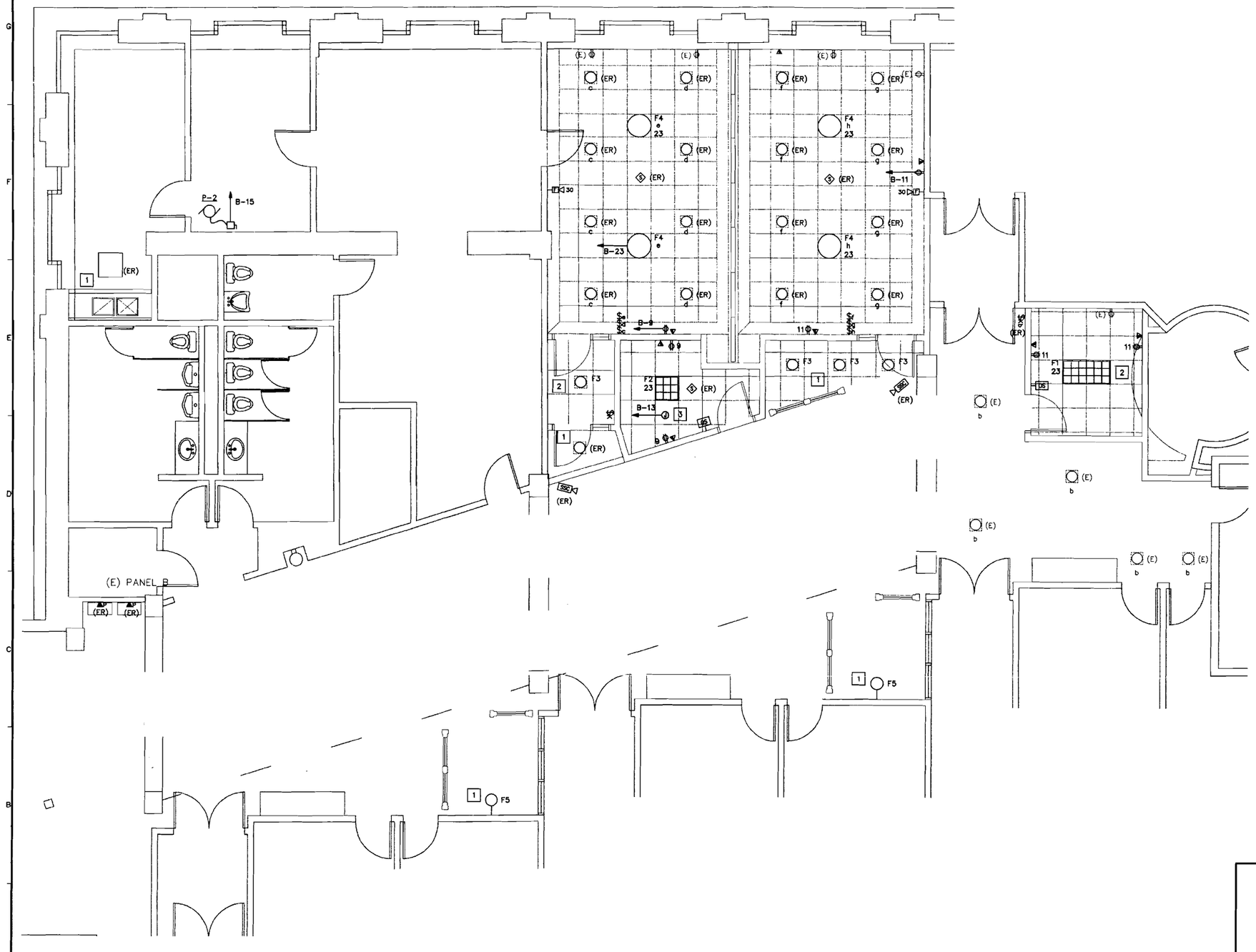
Mechanical/Electrical/Structural Engineering:
allied engineering, inc.

Allied Project No. 04041 | Cad File: 04041E.DWG

Electrical Legend, Notes and Demolition Plans

E1

Date: | Scale: AS NOTED



1	CONNECT TO EXISTING COMMON AREA CIRCUIT AND SWITCHING ~ VERIFY THAT EXISTING CIRCUIT HAS ADEQUATE CAPACITY FOR ADDITIONAL LOAD
2	CONNECT TO EXISTING LIGHTING CIRCUIT VIA INDICATED SWITCHING ~ VERIFY THAT EXISTING CIRCUIT HAS ADEQUATE CAPACITY FOR ADDITIONAL LOAD
3	PROVIDE BRANCH CIRCUIT AND JUNCTION BOX FOR EXTENSION BY DIVISION 15 ~ VERIFY EXACT LOCATION WITH DIVISION 15

A1 — ELECTRICAL PLAN ~ FIRST FLOOR — 1/4" = 1'-0"

A9 — DEMOLITION KEY NOTES — 1/4" = 1'-0"

STATE OF MAINE
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Conference Rooms Renovation

Cumberland County Courthouse

Portland, Maine

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Portland, ME

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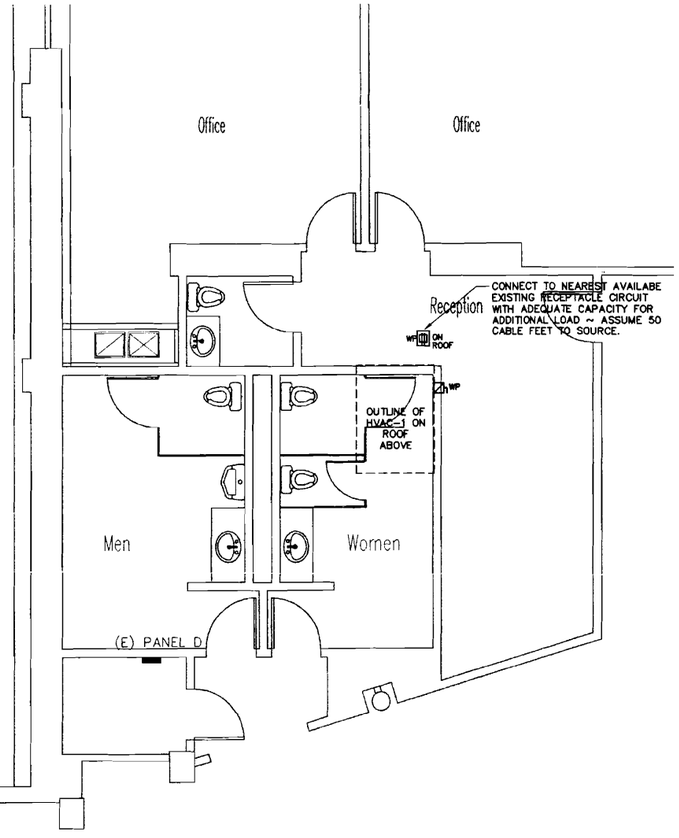
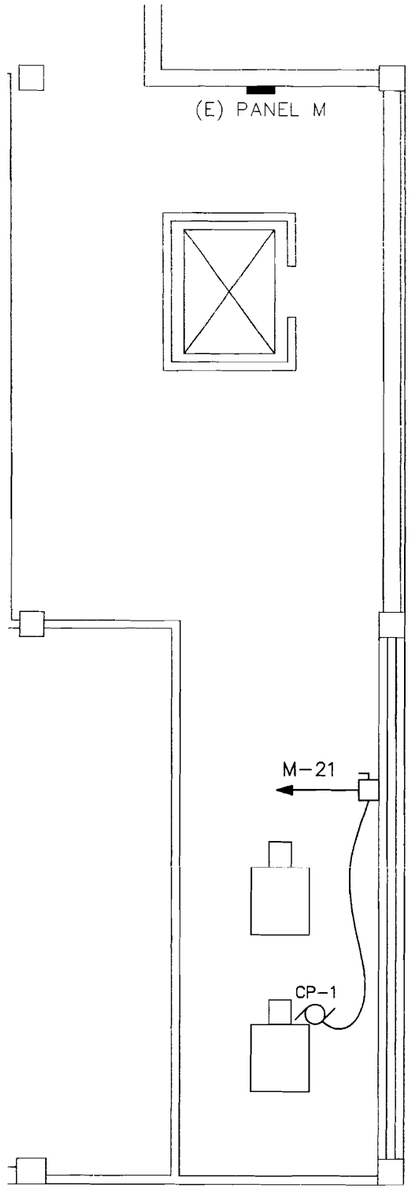
First Floor Electrical Plan

E2

Date: | Scale: AS NOTED





A1	ELECTRICAL PART PLAN ~ THIRD FLOOR	A6	ELECTRICAL PART PLAN ~ BOILER ROOM ~ ROOF
1/4" = 1'-0"		1/4" = 1'-0"	

STATE OF MAINE
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Conference Rooms Renovation

Cumberland County Courthouse

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Allied Project No.	Cad File
04041	04041E.DWG

Electrical Part Plans

E3

Date: | Scale: AS NOTED