

Ms. Kandi Talbot
October 4, 2004
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As previously stated, the Condominium Plat and Plan has been modestly revised to include the reconfiguration/realignment of building unit areas No. 7, No. 8, No. 10, and No. 11, and the deletion of building unit area No. 6. Refer to the accompanying revised Condominium Plat and Plan and revised Site Plan Drawings included in the submission package for further explanation of these revisions.

The revisions to the Condominium Plat and Plan include the following:

Building Unit Area No. 6:

- Building unit No. 6 and the accompanying parking and loading configuration have been deleted from the Plat and Plan. The previously approved building unit No. 6 included 6,000 sq. ft. (100 ft. X 60 ft.) of building area footprint and a future building expansion area of 3,000 sq. ft. for a total of 9,000 sq. ft. of building area.

Building Unit Area No. 7:

- The building area footprint for unit No. 7 has been revised from 6,000 sq. ft. to 25,000 sq. ft. (125 ft. X 200 ft.) of building area with no designated future building expansion area. The proposed building area footprint for unit No. 7 also includes 5,000 sq. ft. of concrete pad for covered, outside storage and approximately 5,000 sq. ft. of concrete pad for uncovered, outside storage for a total of 10,000 sq. ft. of concrete pad for outside storage. The previously approved 6,000 sq. ft. (100 A. X 60 ft.) of building area for unit No. 7 included a future building expansion area of 2,100 sq. ft. for a total of 8,100 sq. ft. of building area.
- The proposed building area footprint for unit No. 7 encompasses the approximate building area footprints for the previously approved building unit No. 6 and building unit No. 7. The proposed alignment for building unit No. 7 is approximately that of the previously approved building unit No. 6, and the eastern side of the building footprint now abuts the eastern/rear 25-foot property boundary setback.
- The parking and loading configuration has been revised modestly. In general, however, the building and development area are similar to the approved plan layout and will continue to be served by public utilities.
- The total impervious area associated with the reconfiguration/realignment of building unit area No. 7 has been increased approximately 5,000 sq. ft. The slight increase in impervious area is due to the outside concrete storage pads and has been included at the request of the prospective tenant for building unit area No. 7. This increase is considered insignificant as it relates to stormwater runoff and the originally approved water quality treatment measures will continue to provide adequate treatment.
- The proposed building area footprint for unit No. 7 impacts approximately 3,617 sq. ft. of additional wetlands impacts for a total of 7,831 sq. ft. of wetlands impacts for the

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October 4, 2004
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development site. DHAI will be submitting a request to amend the previously approved Department of the Army (ACOE) General Permit #200400088 authorizing the fill of approximately 4,214 sq. ft. of wetlands in conjunction with the planned development under a Tier 1 NRPA permit review. A copy of the NRPA Application will be forwarded to the City, as will the approved permit amendment will be submitted to the Planning Authority upon receipt.

Building Unit Area No. 8:

(Submitted to the Planning Authority on September 17, 2004)

- The building area footprint for unit No. 8 has been revised from 10,000 sq. ft. to 9,800 sq. ft. (100 ft. X 98 ft.) of building area with no designated future building expansion area. The previously approved 10,000 sq. ft. building area for unit No. 8 included 6,000 sq. ft. (100 ft. X 60 ft.) of building area with a future building expansion area of 4,000 sq. ft. for a total of 10,000 sq. ft. of building area.
- The building area footprint alignment for unit No. 8 has been modestly revised such that the eastern side of the building footprint now abuts the eastern/rear 25-foot property boundary setback. The previously approved Plat included the southern/back side of the building footprint previously abutting the southern/rear 25-foot property boundary setback.
- The parking and loading configuration has been revised modestly to include additional parking along the western side of building unit No. 8. In general, however, the building and development area are similar to the approved plan layout and will continue to be served by public utilities.
- The total impervious area associated with the reconfiguration/realignment of building unit area No. 8 has been slightly increased approximately 4,000 sq. ft. This increase is considered insignificant as it relates to stormwater runoff and the originally approved water quality treatment measures will continue to provide adequate treatment.

Building Unit Area No. 10:

- The building area footprint for unit No. 10 has been revised from 9,333 sq. ft. to 5,000 sq. ft. (100 ft. X 50 ft.) of building area with no designated future building expansion area. The previously approved 9,333 sq. ft. of building area for unit No. 10 included 2,400 sq. ft. (40 ft. X 60 ft.) building area with a future building expansion area of 6,933 sq. ft. for a total of 9,333 sq. ft. of building area.
- The building area footprint alignment for unit No. 10 has been modestly revised by relocating the building to the northwest such that the building footprint is approximately 90 feet from the eastern/side 25-foot property boundary setback. The previously approved Plat

Ms. Kandi Talbot
October 4, 2004
Page 4

included the eastern side of the building footprint abutting the east side 25-foot property boundary setback.

- Parking and loading configurations have been provided for building unit No. 10 and include 6 parking spaces, a drive-in loading area, and paved storage area. The building will be served by public utilities within the area.
- The total impervious area associated with the reconfiguration/realignment of building unit area No. 10 has been increased approximately 12,000 sq. ft (0.28 acre). Portions of the stormwater runoff generated from the proposed impervious areas will be collected in a proposed stormwater drainage system and directed towards Water Quality Treatment Unit (WQU) No. 2. WQU No. 2 was installed in the summer of 2004 as part of the development of building unit No. 5 and is currently in operation.

DHAI has revised the HydroCAD computer program model to include the 12,000 sq. ft of additional impervious area for Subcatchment 3 in the postdevelopment conditions and reviewed the sizing criteria provided by Vortech for WQU No. 2 to confirm that the increase in stormwater runoff from the impervious areas does not exceed the operational flow criteria for WQU No. 2.

Also, the additional impervious area for Subcatchment 3 will not increase flows above the predevelopment conditions for the 2, 10, and 25-year storm events at the 6-foot box culvert below Riverside Street and the point of analysis for the development project. This can be attributed partly to the fact that the site area designated for development consists of gravels in the existing, predevelopment conditions and the HydroCAD computer program considers gravels to essentially be an impervious surface when estimating stormwater runoff.

City Staff may recall that due to the 16-acre on-site watershed being located at the lower end of the overall 700+ acre watershed, the peak flow coming from the project site will occur earlier in the traditional storm event routing period than the peak flow from the 700+ acre watershed and any increases in impervious surface and resultant increases in stormwater runoff from the project site are mitigated by the fact that the overall watershed peak discharges occur later as peak runoff from higher in the watershed is released and routed through the watershed.

Building Unit Area No. 11 :

- The building area footprint for unit No. 11 has been revised from 9,000 sq. ft. with no designated future building expansion area to 8,600 sq. ft. of building area with no designated future building expansion area.
- The building area footprint alignment for unit No. 11 is essentially unchanged from the previously approved Plat.

Ms. Kandi Talbot
October 4, 2004
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- Parking and loading configurations have been provided for building unit No. 11 and include 12 parking spaces, a drive-in loading area, and a recessed loading dock. The building will be served by public utilities within the area.
- The total impervious area associated with the reconfiguration/realignment of building unit area No. 11 has been increased approximately 10,000 sq. ft (0.23 acre). Portions of the stormwater runoff generated from the proposed impervious areas will be collected in a proposed stormwater drainage system and directed towards Water Quality Treatment Unit (WQU) No. 2.

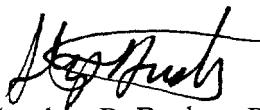
DHAI has revised the HydroCAD computer program model to include the 10,000 sq. ft of additional impervious area for Subcatchment 3 in the postdevelopment conditions and reviewed the sizing criteria provided by Vortechincs for WQU No. 2 to confirm that the increase in stormwater runoff from the impervious areas does not exceed the operational flow criteria for WQU No. 2 and will not increase flows above the predevelopment conditions for the 2, 10, and 25-year storm events at the point of analysis. Again, this can be attributed partly to the fact that the site area designated for development consists of gravels in the existing, predevelopment conditions.

We trust these statements and supporting documentation satisfy the City's requirements and we look forward to review and approval of the revised Condominium Plat and Plan and Site Plan drawings by City Staff and the Corporation Counsel. It is the Applicant's intent to record the Amended Condominium Plat and Plan with the Cumberland County Registry of Deeds upon receipt of approval by City Staff and the Corporation Counsel.

Please contact this office with any questions and concerns.

Sincerely,

DeLUCA-HOFFMAN ASSOCIATES, INC.



Stephen R. Bushey, PE
Senior Engineer

SRB/sq/JN2360/Talbot9-30-04

Enclosure Minor Site Plan Amendment Application submission package

c: Bob Gaudreau, 1039 Riverside Street LLC
 Marge Schmuckal, Codes and Zoning Department
 Jack Lufkin, Economic Development Department
 David Galgay, Verrill & Dana

From: Marge Schmuckal
To: Kandi Talbot; Sarah Hopkins
Date: Mon, Nov 22, 2004 10:52 AM
Subject: 1039 Riverside Street

Kandi,

I have a permit application for building #7 at this location. I also have a copy of a letter to you from Deluca Hoffman requesting revisions to the previously approved site plan for buildings # 7, #8, #10, #11, and #6. But I do not have a stamped approved revised site plan from you. When there is one, please give that plan to me so I can further review this permit for compliance.

Marge

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: 1039 RIVERSIDE ST BLDG #7		
Total Square Footage of Proposed Structure 25,000 SQFT + 5,000 CANOPY	Square Footage of Lot CONDO	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: 1039 RIVERSIDE, LLC 55 HARDY RD FALMOUTH, ME 04105	Telephone: 797-6066
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: 1039 RIVERSIDE, LLC 55 HARDY RD FALMOUTH, ME 04105	cost Of Work: \$911,723 Fee: \$2226.50
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: right;">FOR</p>		
Contractor's name, address & telephone: HARDY POND CONSTRUCTION 1039 RIVERSIDE ST, SUITE 11 PORTLAND, ME 04103 Who should we contact when the permit is ready: BOB GAUDREAU 318-7512 CELL 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: 318-7512		

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 APPROVE 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: 11/17/04
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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

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

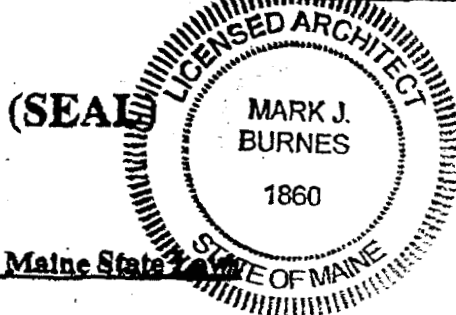
PROM: MARK BURNES, FORESIDE ARCHITECTS

RE: Certificate of Design

DATE: 11 ' 6 / 04

These plans and / or specifications covering construction work on:

BUILDING #7 - 1039 RIVERSIDE DRIVE, PORTLAND, ME
BUILDING PRODUCTS
PRE-ENGINEERED BUILDING TO BE USED AS A STORAGE AND SALES FACILITY
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: [Handwritten Signature]

Title: PRESIDENT / ARCHITECT

Firm: FORESIDE ARCHITECTS, LLC

Address: PO BOX 66736, FALMOUTH, ME

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

ACCESSIBILITY CERTIFICATE

Designer: MARK J. BURNES

Address of Project: 1039 RIVERSIDE DR. PORTLAND, ME

Nature of Project: BUILDING #7

STORAGE AND SALES FACILITY
FOR BUILDING PRODUCTS

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: [Handwritten Signature]

Title: PRINCIPAL / ARCHITECT

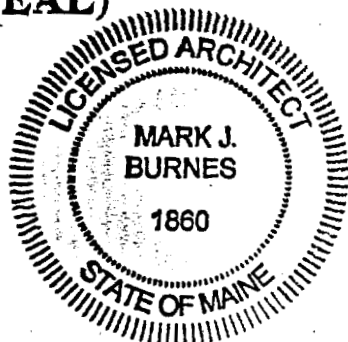
Firm: FORESIDE ARCHITECTS, LLC

Address: PO BOX 66736

FALMOUTH, ME 04105

Phone: (207) 781-3344

(SEAL)





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: ALLIED ENGINEERING INC

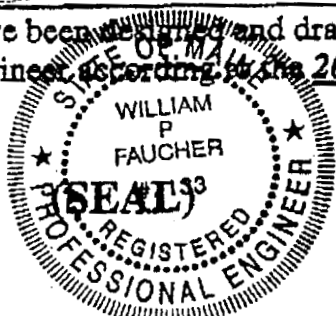
RE: Certificate of Design

DATE: 1-17-04

These plans and / or specifications covering construction work on:

BUILDING #7 - 1039 RIVERSIDE DRIVE, PORTLAND ME

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: [Handwritten Signature]

Title: PRINCIPAL

Firm: ALLIED ENGINEERING, INC

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.

Address: ONE WESTBROOK COMMON
WESTBROOK ME 04092
207-854-8126

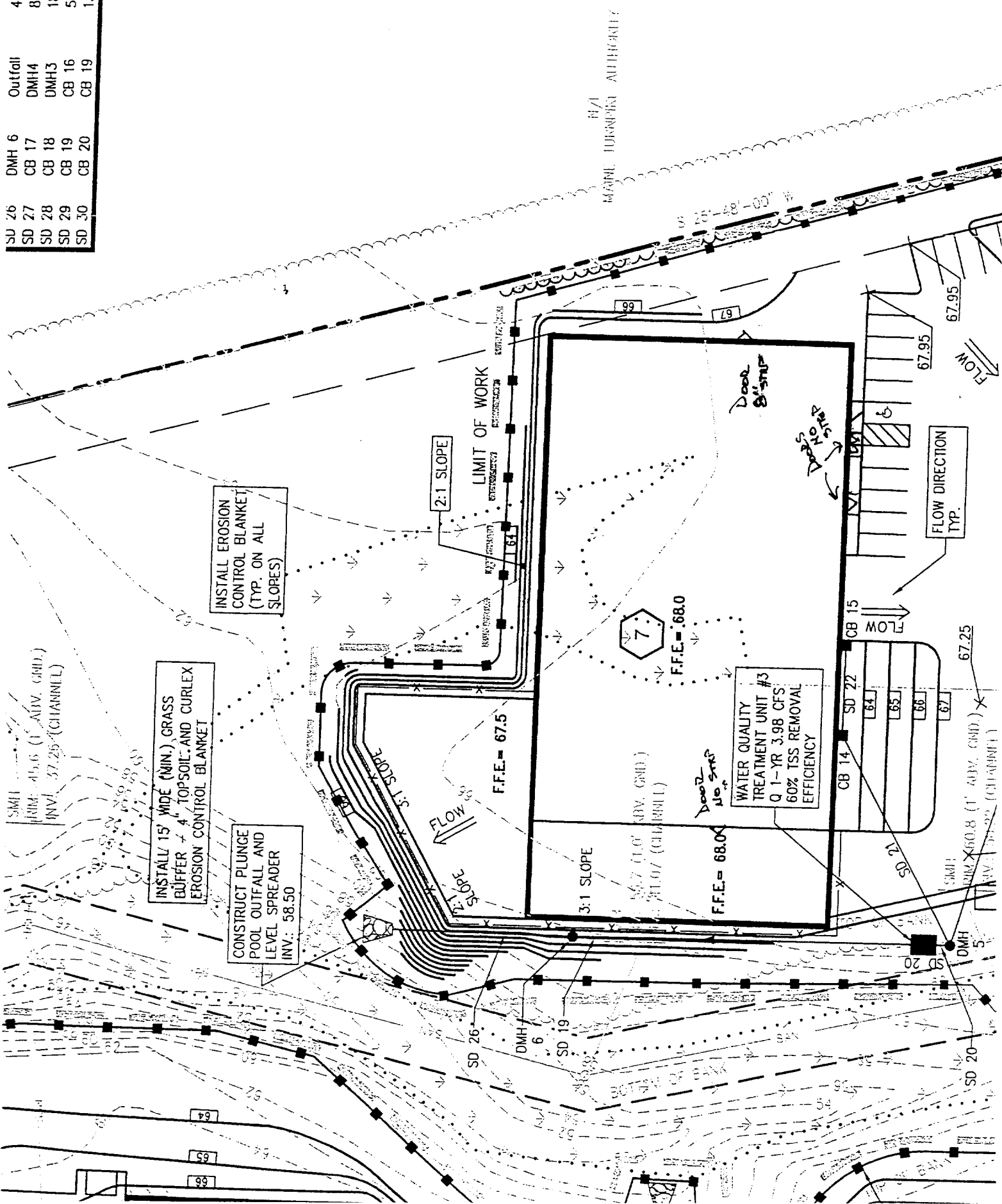
Memorandum

To: Bob Gaudreau
From: Mike Nugent/Manager of Inspection Services
Date: 12/08/2004
Re: Building # 7 1039 Riverside St. (331 A001)

I have commenced the review of the remainder of the building plans and require the following information from your design team prior to allowing the next phase of construction:

- 1) The "Kirby" plans are not stamped.
- 2) Need a cross section of the fire separation assembly w/ UL listing
- 3) Need a Fire glazing detail w/ ASTM testing standard.
- 4) Need elevations to determine if the entrances will need stairs (based on the site plan there is a 2 foot to four foot difference between grade and the FFE. Need structural details of the stairs and or ramps w/ tread , riser, guard and width details. Any exterior stairway must be protected from the accumulation of Ice and Snow.
- 5) Will the Fire Supression system be installed above and below the Office area Ceiling.
- 6) What will the ceiling be? Need cross section.
- 7) Please provide flame spread and smoke development info in the interior finishes in compliance w/ Chapter 8 of the 2003 IBC.
- 8) What type of Fire alarm system, please provide specs.
- 9) Please provide documentation that the point loads associated with the HVAC units has been accounted for in the Kirby design, and provide stamped installation plans.
- 10) Retaining wall height and specs.,.Guard may be required, if so guard info.

SU 26	DMH 6	Outfall	44'	.008
SD 27	CB 17	DMH4	88'	.020
SD 28	CB 18	DMH3	192'	.020
SD 29	CB 19	CB 16	56'	.005
SD 30	CB 20	CB 19	134'	.005



MAIN TURNPIKE AUTHORITY

INSTALL EROSION CONTROL BLANKET (TYP. ON ALL SLOPES)

INSTALL 15' WIDE (MIN.) GRASS BUFFER + 4' TOPSOIL AND CURLEX EROSION CONTROL BLANKET

CONSTRUCT PLUNGE POOL OUTFALL AND LEVEL SPREADER INV.: 58.50

WATER QUALITY TREATMENT UNIT #3
Q 1-YR 3.98 CFS
60% TSS REMOVAL EFFICIENCY

FLOW DIRECTION TYP.

2:1 SLOPE

3:1 SLOPE

F.F.E. = 67.5

F.F.E. = 68.0

F.F.E. = 68.0

67.95

67.25

67.25

67.25

67.95

67.95

67.95

67.95

67.95

67.95

67.95

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.

Total Square Footage of Proposed Structure 25,000 SQFT + 5,000 CANOPY		Square Footage of Lot CONDO	
Tax Assessor's Chart, Block & Lot Chart# 331 Block# A Lot# 1		Owner: 1039 RIVERSIDE, LLC 55 HARDY RD FALMOUTH, ME 04103	
Lessee/Buyer's Name (if Applicable)		Telephone: 797-6066	
Applicant name, address & telephone: 1039 RIVERSIDE, LLC		Cost Of Work: \$911,723 Fee: \$222.50	
<div style="border: 1px solid black; padding: 5px; display: inline-block; transform: rotate(-15deg);"> RECEIVED NOV 8 1 00 PM '04 </div> <p style="margin-top: 20px;"><u>WAREHOUSE / DISTRIBUTOR WITH SMALL SHOWROOM +</u> SPRINKLER PER USE RATING FOR VINYL SIDING + WINDOW STOCK.</p>			
Contractor's name, address & telephone: HARDY POND CONSTRUCTION 1039 RIVERSIDE ST, SUITE 11 PORTLAND, ME 04103 Who should we contact when the permit is ready: BOB CAUDREAU 318-7512 CELL 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: 318-7512			

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 APPROVE 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: 11/17/04
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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

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

FROM: MARK BURNES, FORBESIDE ARCHITECTS

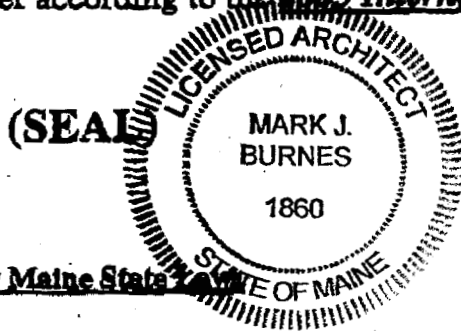
RE: Certificate of Design

DATE: 11/16/04

These plans and / or specifications covering construction work on:

BUILDING #7 - 1037 RIVERSIDE DRIVE, PORTLAND, ME
BUILDING PRODUCTS
PRE-ENGINEERED BUILDING TO BE USED AS A STORAGE AND SALES FACILITY

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: [Handwritten Signature]

Title: PRESIDENT / ARCHITECT

Firm: FORBESIDE ARCHITECTS, LLC

Address: PO BOX 66736, FALMOUTH, ME

As per Maine State Code

\$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.



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

ACCESSIBILITY CERTIFICATE

Designer: MARK J. BURNES

Address of Project: 1039 RIVERSIDE DR. PORTLAND, ME

Nature of Project: BUILDING #7
STORAGE AND SALES FACILITY
FOR BUILDING PRODUCTS

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: [Handwritten Signature]

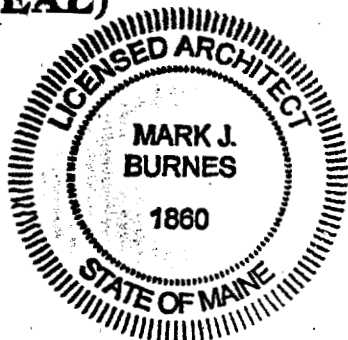
Title: PRESIDENT / ARCHITECT

Firm: FORESIDE ARCHITECTS, LLC

Address: PO BOX 66736
FALMOUTH, ME 04105

Phone: (207) 781-3344

(SEAL)





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: ALLIED ENGINEERING INC

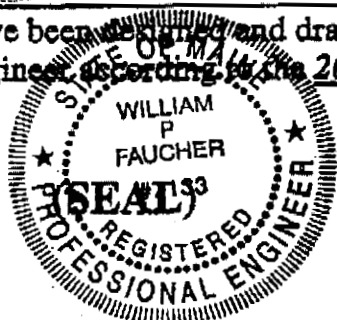
RE: Certificate of Design

DATE: 11-17-04

These plans and / or specifications covering construction work on:

BUILDING #7 - 1039 RIVERSIDE DRIVE, PORTLAND ME

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: [Handwritten Signature]

Title: PRINCIPAL

Firm: ALLIED ENGINEERING, INC

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.

Address: ONE WESTBROOK COMMON
WESTBROOK ME 04092
207-854-8126

FROM DESIGNER: ALLIED ENGINEERING, INC.
 DATE: 11-17-04
 Job Name: Building Sacer
 Address of Construction: 1039 Riverside St., Portland, ME

2003 International Building Code

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

Building Code and Year IBC 2003 Use Group Classification(s) MERCHANTILE

Type of Construction 3B ²⁰⁰³

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IBC YES

Is the Structure mixed use? No If yes, separated or non separated (see Section 302.3)

Suppression alarm system? YES Geotechnical/Soils report required? (See Section 1802.2) No.

STRUCTURAL DESIGN CALCULATIONS

N/A submitted for all structural members (109.1, 109.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1609)

Uniformly distributed floor live loads (1603.1.1, 1607)

Floor Area Use	Loads Shown
<u>No Floors above grade</u>	<u>1.0</u>
_____	<u>1.0</u>
_____	<u>1.0</u>
_____	<u>N/A</u>

N/A Live load reduction (1603.1.1, 1607.8, 1607.10)

N/A Roof live loads (1603.1.2, 1607.11)

60 Roof snow loads (1603.1.3, 1608)

42.0 Ground snow load, P_g (1608.2)

1.0 If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3)

1.0 If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1)

1.0 If $P_g > 10$ psf, snow load importance factor, I_s (Table 1604.5)

N/A Roof thermal factor, C_t (Table 1608.3.2)

N/A Sloped roof snowload, P_s (1608.4)

B Seismic design category (1613.2)

Conc. Braced Fr. Basic seismic-force-resisting system (Table 1617.8.2)

5 Response modification coefficient, R , and deflection amplification factor, C_d (Table 1617.8.2)

18.0K Analysis procedure (1616.6, 1617.6)

18.0K Design base shear (1617.4, 1617.8.1)

Wind loads (1604.1.4, 1609)

1609.6 Design option utilized (1609.1.1, 1609.6)

100 Basic wind speed (1609.5)

I, 1.0 Building category and wind importance factor, I_w (Table 1604.5, 1609.5)

C Wind exposure category (1609.4)

N/A Internal pressure coefficient (ASCE 7)

26/23 psf @ 100 ft Component and cladding pressures (1609.1.1, 1609.6.2.2)

20.5/13.6 psf Main force wind pressures (1609.1.1, 1609.6.2.1)

N/A Flood loads (1603.1.6, 1612)

N/A Flood hazard area (1612.3)

N/A Elevation of structure

N/A Other loads

N/A Concentrated loads (1607.4)

N/A Partition loads (1607.5)

N/A Impact loads (1607.8)

N/A Misc. loads (Table 1607.9, 1607.9.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

Earthquake design data (1603.1.6, 1614 - 1623)

1614.1 Design option utilized (1614.1)

I Seismic use group (Category) (Table 1604.5, 1616.2)

$S_{05} = .522$
 $S_{01} = .233$

D Spectral response coefficients, S_{ps} & S_{p1} (1615.1)



P.O. Box 390 • 124 Kirby Drive • Portland, TN 37148 • (615) 325-4165

ANDRE ROBIDOUX
 2 Southgate Ave.
 Biddeford, ME 04005

DATE: November 4, 2004
JOB NUMBER; 530801
LOCATION; Portland, ME
BLDG DESCRIPTION: BS-3, 125 X 240 X 28

Gentlemen:

This is to certify that the metal building components furnished by Kirby Building Systems, an **AISC-MB** certified manufacturer, are designed for the load capacities shown below as specified on the purchase order documents. This project was designed in our Portland office and is scheduled for fabrication in our Portland, TN, plant

Design Loads:

- 20 PSF Roof Live Load (L)
- 20 PSF Frame Live Load (L)
- Occupancy Category I
- 90 MPH Wind Load (W)
Exp 8, I = 1.1
- 42 PSF Roof Snow Load (S)
Pg = 60 PSF, I = 1.0,
Ce = 0.7, Ct = 1.0
- 5 PSF Collateral Load (C)
- Auxiliary Loads: (5) 300# Heater Units
- Dead Load (per KBS Design) (D)
- Seismic Data as Follows: (E)
 $A_v = 0.10, A_h = 0.10$
 Seismic Use Group I
 Seismic Design Category C
 Lateral Force Resisting System = OMF
 Longitudinal Force Resisting System = QMF, CBF
 Equivalent Lateral Force Procedure

Design Load Combinations:

- D + L + L_r + C
- D + L + S + C
- 0.6D + W
- D + W + L + L_r + C
- D + W + L + S + C
- 0.9D + 0.9C + E
- 1.20 + 1.2C + 1.0E + (1.0/0.5)L + (0.5/0.7)S


Note: This project is designed as an **Enclosed Building**. Accessories (doors, windows, etc.) by others must be designed as "components and cladding" in accordance to the specific wind provisions of the referenced Building Code.

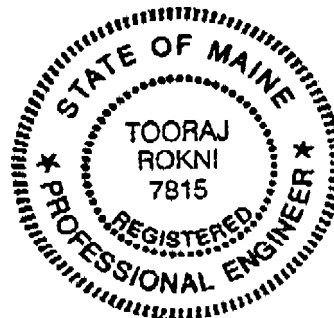
Please note that unless otherwise specified on your Purchase Order, Kirby Building Systems Serviceability Standards (2002 MBMA Section III/ AISC Design Guide 3) will be used for design and fabrication of your order.

These design loads and combinations are applied in accordance with the 1999 edition of the BOCA National Building Code. The design is in general accordance with the A.I.S.C. (Ninth Edition) and A.I.S.I. (1996) specifications with the 1999 addendum.

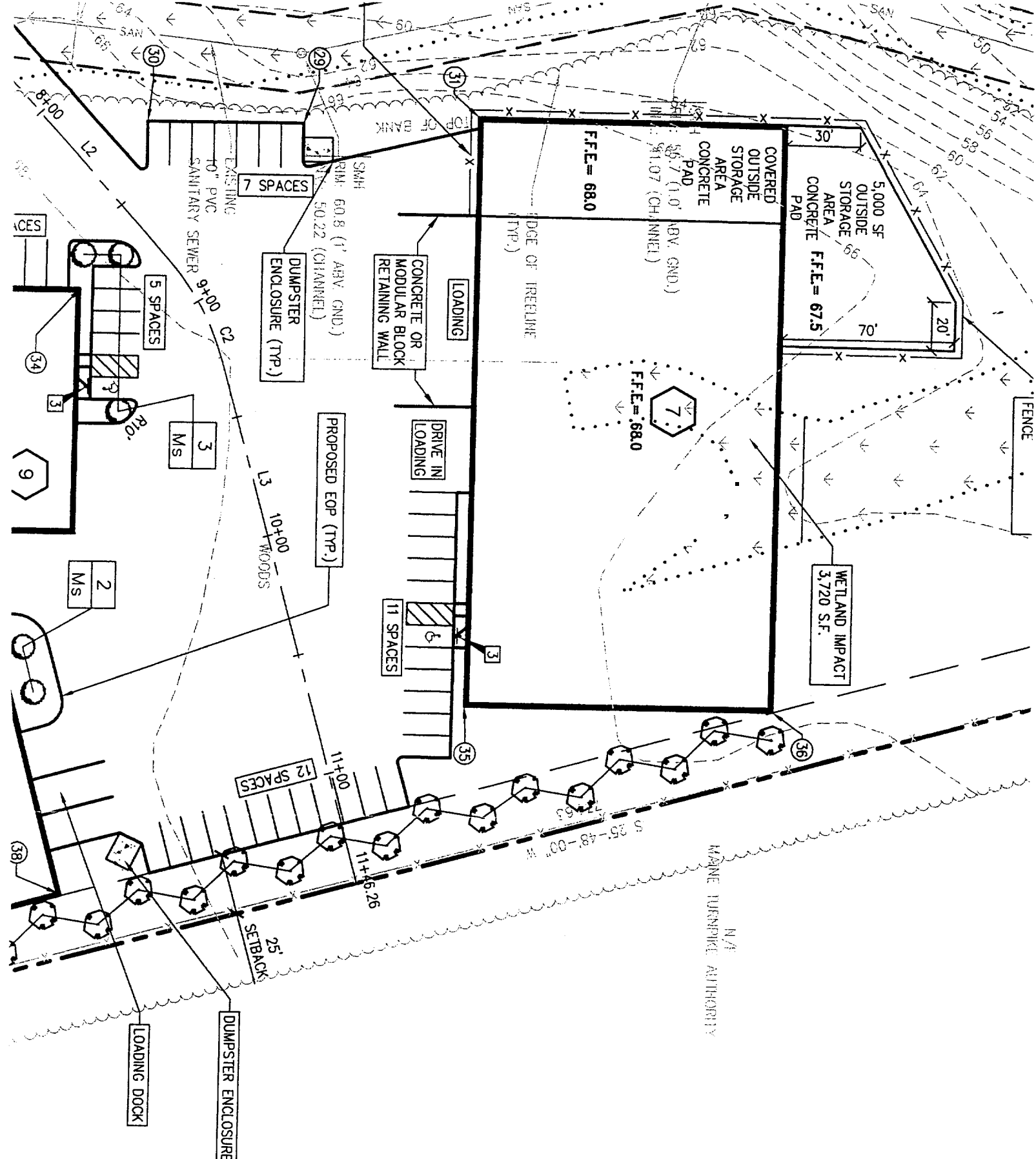
The roof systems materials supplied by Kirby Building Systems for this project, provided they are erected in accordance with Kirby Building Systems erection instructions and Underwriters Labor Construction No. 93 qualify for an underwriters Laboratories Class 90 wind uplift rating.

This certification is limited to the structural design of the framing and covering parts manufactured by Kirby Building Systems and as specified in the contract. Accessory items such as doors, windows, louvers, translucent panels, and ventilators are not included. Also excluded are other parts of the project not provided by Kirby such as foundations, masonry walls, mechanical equipment and the erection and inspection of the building. The building should be erected on a properly designed foundation in accordance with Kirby's Erection Drawings for the referenced project. The undersigned is not the engineer of record for the overall project.

Sincerely,
 KIRBY BUILDING SYSTEMS

 Tooraj Rokni, P.E.
 Senior Design Engineer



Nov, 4, 04



- 17. A STREET OPENING SHALL BE MAINTAINED AT ALL TIMES.
- 16. ALL SANITARY SERVICES SHALL BE IN ACCORDANCE WITH THE PORTLAND PUBLIC HEALTH CODE.
- 15. PROPERTY MARKS SHALL BE SET AND MAINTAINED AT ALL TIMES.
- 14. ANY DAMAGE TO THE PROPERTY SHALL BE REPAIRED AT THE OWNER'S EXPENSE.
- 13. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PORTLAND PUBLIC HEALTH CODE.
- 12. WARNING SIGNS, BARRIERS, AND RIVERSIDE STREET LIGHTS SHALL BE MAINTAINED AT ALL TIMES.
- 11. AN APPROVED CONTRACTOR SHALL BE AVAILABLE AT ALL TIMES FOR THE CONSTRUCTION OF THE FACILITY.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE FACILITY AND SHALL BE AVAILABLE AT ALL TIMES FOR THE CONSTRUCTION OF THE FACILITY.
- 9. ALL METHODS AND MATERIALS TO BE USED IN THE CONSTRUCTION OF THE FACILITY SHALL BE IDENTIFIED HEREIN AND SPECIFICALLY LISTED IN THE TECHNICAL SPECIFICATIONS AND DRAWINGS.
- 8. THE FACILITY SHALL BE OVERHEAD AND SHALL BE MAINTAINED AT ALL TIMES.
- 7. ALL METHODS AND MATERIALS TO BE USED IN THE CONSTRUCTION OF THE FACILITY SHALL BE IDENTIFIED HEREIN AND SPECIFICALLY LISTED IN THE TECHNICAL SPECIFICATIONS AND DRAWINGS.



S.W. COLE
ENGINEERING, INC.

• *Geotechnical Engineering* • *field & Lab Testing* • *Scientific & Environmental Consulting*

04-0238

April 1, 2004

Hardy Pond Construction
Attention: Bob Goudreau
1039 Riverside Street, Suite 11
Portland, Maine 04103

Subject: Preliminary Geotechnical Engineering Services
Limited Investigation
Bearing Capacity Assessment
Proposed Second Tee Business Park
1039 Riverside Street
Portland, Maine

Dear Mr. Goudreau:

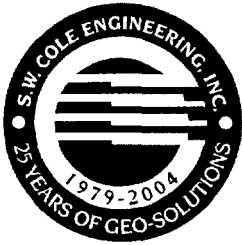
As requested, S. W. COLE ENGINEERING, INC. has observed a subsurface investigation for the proposed Second Tee Business Park located at 1039 Riverside Street in Portland, Maine. The purpose of our work was to observe the subsurface conditions at the site and provide a preliminary assessment of allowable soil bearing capacity. The contents of this report are subject to the limitations set forth in Attachment A.

PROPOSED CONSTRUCTION

We understand that a new business park is proposed on a 16-acre parcel of land at 1039 Riverside Street in Portland, Maine. The parcel will be developed for 10 structures measuring from 6,000 to 25,000 square feet. The structures will be one story metal buildings with finish floor grades within 1 to 2 feet of existing grade and light floor loading.

EXPLORATION AND TESTING

As requested, we observed four test pits made at the site on March 26, 2004. The explorations were selected and located in the field by Hardy Pond Construction. The approximate locations of the explorations are shown on the "Exploration Location Sketch" attached as Sheet 1.



04-0238
April 1, 2004

Logs of the explorations, based on our observations and laboratory testing are attached as Sheets 2 and 3. A key to the notes and symbols used on the logs is attached as Sheet 4.

Laboratory testing was performed on selected samples recovered from the explorations. One grain size analysis was performed and the results are presented on Sheets 5 and 6.

SUBSURFACE CONDITIONS

Test Pits TP-1 through TP-4 generally encountered 0.5 to 1.0 feet of dark brown sandy silt with organics overlying 4 to 6 feet of brown silty fine to medium sand. The silty sand overlies gray silty sand with silt and clay layers. Test Pits TP-1 through TP-3 were terminated in the gray silty sand at a depth of 8.5, 8.0 and 6.0 feet, respectively. Test Pit TP-4 encountered gray silty clay at a depth of 7 feet and was terminated at 8.0 feet.

Groundwater was observed in the explorations at depths of about 4 to 4.5 feet at the time of the fieldwork. The soils were generally wet below the ground surface. Long-term groundwater information is not available.

EVALUATIONS AND RECOMMENDATIONS

Based on our observations and shallow groundwater conditions encountered, we recommend that the footings be placed on **8** inches of crushed stone over a geotextile fabric placed on the undisturbed native silt sand. We further recommend that a smooth edged bucket be utilized to excavate to subgrade in order to reduce disturbance of the bearing soils. Footings should be placed at a depth of at least 4.5 feet below exterior finish grade to provide frost protection. Based on the findings at the widely spaced test pits, we recommend that preliminary foundation design consider a net allowable bearing contact pressure not exceeding 2.5 ksf. All footings should be at least 24 inches in width.

Groundwater will be encountered during excavation work. Sumping and pumping dewatering techniques should be adequate to control groundwater below footing subgrade elevation. Controlling the water levels to a at least one foot below subgrade elevations will help stabilize the subgrade and provide a more suitable working surface during construction.

Our services have been limited by the client to widely spaced test pits and providing a preliminary assessment of allowable soil bearing capacity at those locations. Other services were specifically not requested by the client. We recommend that additional explorations



04-0238
April 1, 2004

including test pits and/or test borings be made specific to each structure proposed at the site. This is to determine if soil conditions are consistent with those found at these explorations.

S. W. COLE ENGINEERING, INC. should be on-site to observe subgrades prior to fill or concrete placement in the event that subsurface conditions are found to differ from those anticipated. S. W. COLE ENGINEERING, INC. is available to provide field and laboratory testing of soils, concrete, asphalt, masonry, spray-applied fire-proofing and structural steel.

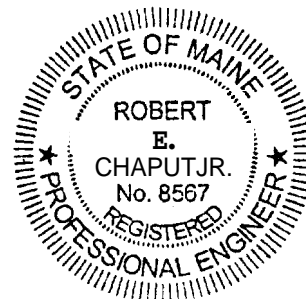
CLOSING

It has been a pleasure to be of assistance to you with this phase of your project. If you have any questions or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

S. W. COLE ENGINEERING, INC.

Robert E. Chaput, Jr., P.E.
Vice President



REC:kml

P:\Swc-2004\04-0238\04-0238 Report.doc

ATTACHMENT A

Limitations

This report has been prepared for the exclusive use of Hardy Pond Construction for specific application to the Proposed Second Tee Business Park at 1039 Riverside Street in Portland, Maine as described herein. Our services were limited by Hardy Pond Construction to an assessment of soil bearing capacity only and a deeper soils investigation to evaluate settlement and other geotechnical considerations was specifically excluded by Hardy Pond Construction. Hardy Pond Construction has agreed to protect and hold harmless S.W.COLE ENGINEERING, INC. from any and all claims, including third-party claims, for damages or consequential damages due to underlying soil conditions including but not limited to post-construction settlement. S.W.COLE ENGINEERING, INC. has endeavored to conduct the work in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made.

The soil profiles described in the report are intended to convey general trends in subsurface conditions. The boundaries between strata are approximate and are based upon interpretation of exploration data and samples. Observations have been made during exploration work to assess site groundwater levels. Fluctuations in water levels will occur due to variations in rainfall, temperature, and other factors.

The analyses performed during this investigation and recommendations presented in this report are based in part upon the data obtained from subsurface explorations made at the site. Variations in subsurface conditions may occur between explorations and may not become evident until construction. If variations in subsurface conditions become evident after submission of this report, it will be necessary to evaluate their nature and to review the recommendations of this report.

S.W.COLE ENGINEERING, INC.'s scope of work has not included the investigation, detection, or prevention of any Biological Pollutants at the project site or in any existing *or* proposed structure at the site. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms.

Recommendations contained in this report are based substantially upon information provided by others regarding the proposed project. In the event that any changes are made in the design, nature, or location of the proposed project, S.W.COLE ENGINEERING, INC. should review such changes as they relate to analyses associated with this report. Recommendations contained in this report shall not be considered valid unless the changes are reviewed by S.W.COLE ENGINEERING, INC.

Schedule B



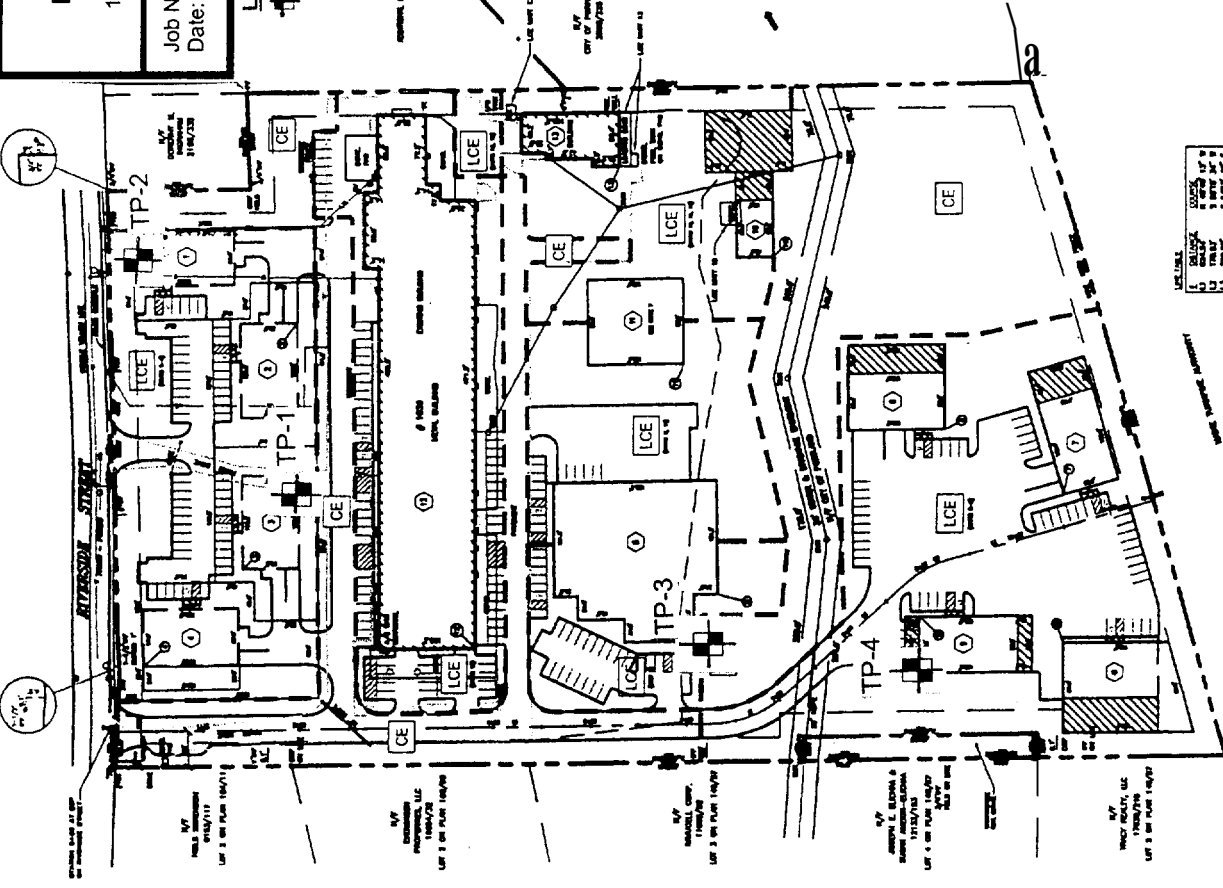
HARDY POND CONSTRUCTION
 EXPLORATION LOCATION SKETCH
 PROPOSED SECOND TEE BUSINESS PARK
 1039 RIVERSIDE STREET, PORTLAND, MAINE

Sheet 1

Job No. 04-0238
 Date: 04/01/04

LEGEND

- TEST PIT LOCATION
- NOTES ON THE PLAN:
 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MAINE CONSTRUCTION CODE (24-A MRSA).
- LEGEND
- 1. EXISTING SIDEWALK
 - 2. EXISTING DRIVEWAY
 - 3. EXISTING DRIVEWAY
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 - 5. EXISTING DRIVEWAY
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STATION AND OFFSET

STATION	OFFSET
1+00	10.00
2+00	20.00
3+00	30.00
4+00	40.00
5+00	50.00
6+00	60.00
7+00	70.00
8+00	80.00
9+00	90.00
10+00	100.00
11+00	110.00
12+00	120.00
13+00	130.00
14+00	140.00
15+00	150.00
16+00	160.00
17+00	170.00
18+00	180.00
19+00	190.00
20+00	200.00

SCHEDULE OF AREAS

NO.	AREA	AREA
1	AREA 1	AREA 1
2	AREA 2	AREA 2
3	AREA 3	AREA 3
4	AREA 4	AREA 4
5	AREA 5	AREA 5
6	AREA 6	AREA 6
7	AREA 7	AREA 7
8	AREA 8	AREA 8
9	AREA 9	AREA 9
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11	AREA 11	AREA 11
12	AREA 12	AREA 12
13	AREA 13	AREA 13
14	AREA 14	AREA 14
15	AREA 15	AREA 15
16	AREA 16	AREA 16
17	AREA 17	AREA 17
18	AREA 18	AREA 18
19	AREA 19	AREA 19
20	AREA 20	AREA 20

- NOTES
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MAINE CONSTRUCTION CODE (24-A MRSA).
 2. THE EXPLORATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINE CONSTRUCTION CODE (24-A MRSA).
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 20. THE EXPLORATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINE CONSTRUCTION CODE (24-A MRSA).

- PLAN REFERENCES
1. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.
 2. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.
 3. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.
 4. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.
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 18. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.
 19. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.
 20. MAINE CONSTRUCTION CODE (24-A MRSA), 2003 EDITION.

GRAPHIC SCALE

DATE: 04/01/04
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT NO.: 04-0238

APPROVAL—CITY OF PORTLAND
 PLANNING AUTHORITY

STATE OF MAINE

COUNTY SS REGISTRY OF DEEDS
 RECEIVED _____ 20
 AT _____ M. AND RECORDED IN
 PLAN BOOK _____ PAGE _____ REGISTER

CONDOMINIUM PLAN
 SECOND TEE BUSINESS PARK CONDOMINIUM
 1039 RIVERSIDE STREET, PORTLAND, MAINE
 OWEN HASKELL, INC.

JOHN C. BROWN, P.E. F.I.C.E.
 CIVIL ENGINEER
 1039 RIVERSIDE STREET, PORTLAND, MAINE 04108
 TEL: 855-8888 FAX: 855-8888
 MAILING ADDRESS: 1039 RIVERSIDE STREET, PORTLAND, MAINE 04108
 TEL: 855-8888 FAX: 855-8888

REVISIONS

NO.	DATE	DESCRIPTION
1	04/01/04	ISSUE FOR PERMIT
2	04/01/04	REVISED PER PLAN NO. 04-0238-1
3	04/01/04	REVISED PER PLAN NO. 04-0238-2
4	04/01/04	REVISED PER PLAN NO. 04-0238-3
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S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT CLIENT: PROPOSED SECOND TEE BUSINESS PARK / HARDY POND CONSTRUCTION
LOCATION: 1039 RIVERSIDE STREET, PORTLAND, MAINE

PROJECT NO.: 04-0238
SWC REP: TJC

BACKHOE FIRM: HARDY POND CONSTRUCTION OPERATOR: BOB GOUDREAU

TEST PIT TP-1

SEE SHEET 1

SAMPLE NO	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	DARK BROWN SANDY SILT, TRACE GRAVEL WITH ORGANICS	
		LIGHT BROWN SILTY FINE TO MEDIUM SAND	
S-1	7'	GRAY SILTY FINE SAND WITH SILT AND CLAY LAYERS	
	8.5'	BOTTOM OF EXPLORATION AT 8.5'	

COMPLETION DEPTH 8.5'

DEPTH TO WATER 4'

TEST PIT TP-2

SAMPLE NO	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	DARK BROWN SANDY SILT WITH ORGANICS	
		LIGHT BROWN SILTY FINE TO MEDIUM SAND	
S-2	4'		
	5.0'		
		GRAY SILTY FINE SAND WITH SILT AND CLAY LAYERS	
	8.0'	BOTTOM OF EXPLORATION AT 8'	

COMPLETION DEPTH: 8'

DEPTH TO WATER: 4.5'



TEST PIT LOGS

PROJECT/CLIENT: PROPOSED SECOND TEE BUSINESS PARK / HARDY POND CONSTRUCTION
 LOCATION: 1039 RIVERSIDE STREET, PORTLAND, MAINE
 BACKHOE FIRM: HARDY POND CONSTRUCTION OPERATOR: BOB GOUDREAU

PROJECT NO.: 04-0238
 SWCREP: TJG

TEST PIT <u>TP-3</u>			
DATE: <u>3/26/2004</u>		SURFACE ELEVATION: <u>NOT AVAIL</u>	
		LOCATION	<u>SEE SHEET 1</u>
SAMPLE NO	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
S-3	0.5'	BROWN SAND AND GRAVEL, TRACE COBBLES	
		ORANGE/BROWN SILTY FINE TO MEDIUM SAND	
	4.5'	GRAY FINE SAND WITH SILT AND CLAY LAYERS	
	6.0'	BOTTOM OF EXPLORATION AT 6'	
COMPLETION DEPTH: <u>6'</u>		DEPTH TO WATER: <u>4'</u>	

TEST PIT <u>TP-4</u>			
DATE: <u>3/26/2004</u>		SURFACE ELEVATION: <u>NOT AVAIL</u>	
		LOCATION	<u>SEE SHEET 1</u>
SAMPLE NO	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
S-4	8"	DARK BROWN SANDY SILT WITH ORGANICS	
		LIGHT BROWN FINE SANDY SILT	
	3.5'	BROWN SILTY SAND	
	6.5'	GRAY SILTY FINE SAND WITH SILT AND CLAY LAYERS	
	7.0'	GRAY SILTY CLAY	
	8.0'	BOTTOM OF EXPLORATION AT 8'	
COMPLETION DEPTH: <u>8'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

KEY TO THE NOTES & SYMBOLS

Test Boring and Test Pit Explorations

All stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Key to Symbols Used:

w	-	water content, percent (dry weight basis)
q_u	-	unconfined compressive strength, kips/sq. ft. - based on laboratory unconfined compressive test
S_v	-	field vane shear strength, kips/sq. ft.
L_v	-	lab vane shear strength, kips/sq. ft.
q_p	-	unconfined compressive strength, kips/sq. ft. based on pocket penetrometer test
O	-	organic content, percent (dry weight basis)
W_L	-	liquid limit - Atterberg test
W_P	-	plastic limit - Atterberg test
WOH	-	advance by weight of hammer
WOM	-	advance by weight of man
WOR	-	advance by weight of rods
HYD	-	advance by force of hydraulic piston on drill
RQD	-	Rock Quality Designator - an index of the quality of a rock mass. RQD is computed from recovered core samples.
γ_T	-	total soil weight
γ_B	-	buoyant soil weight

Description of Proportions:

0 to 5% TRACE
5 to 12% SOME
12 to 35% "Y"
35+% AND

REFUSAL: Test Boring Explorations - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

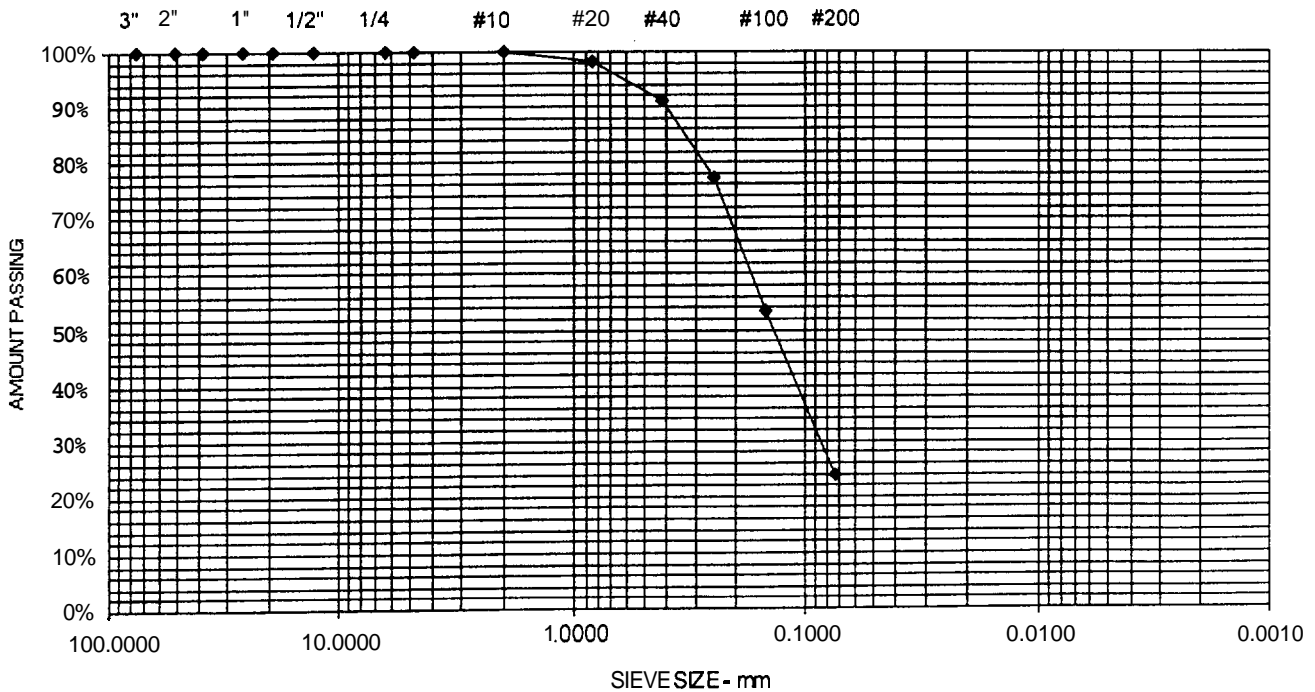
REFUSAL: Test Pit Explorations - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.

Project Name **HARDYPOND PORTLAND RIVERSIDE COMMERCIAL SUBDIVISION**
 SSI
 Client **HARDYPOND CONSTRUCTION INC**
 Exploration **TP-2,S-2,4.0'**
 Material Source

Project Number **04-0238**
 Lab ID **984A**
 Date Received **3/26/2004**
 Date Completed **3/29/2004**
 Tested By **RYAN BRAGG**

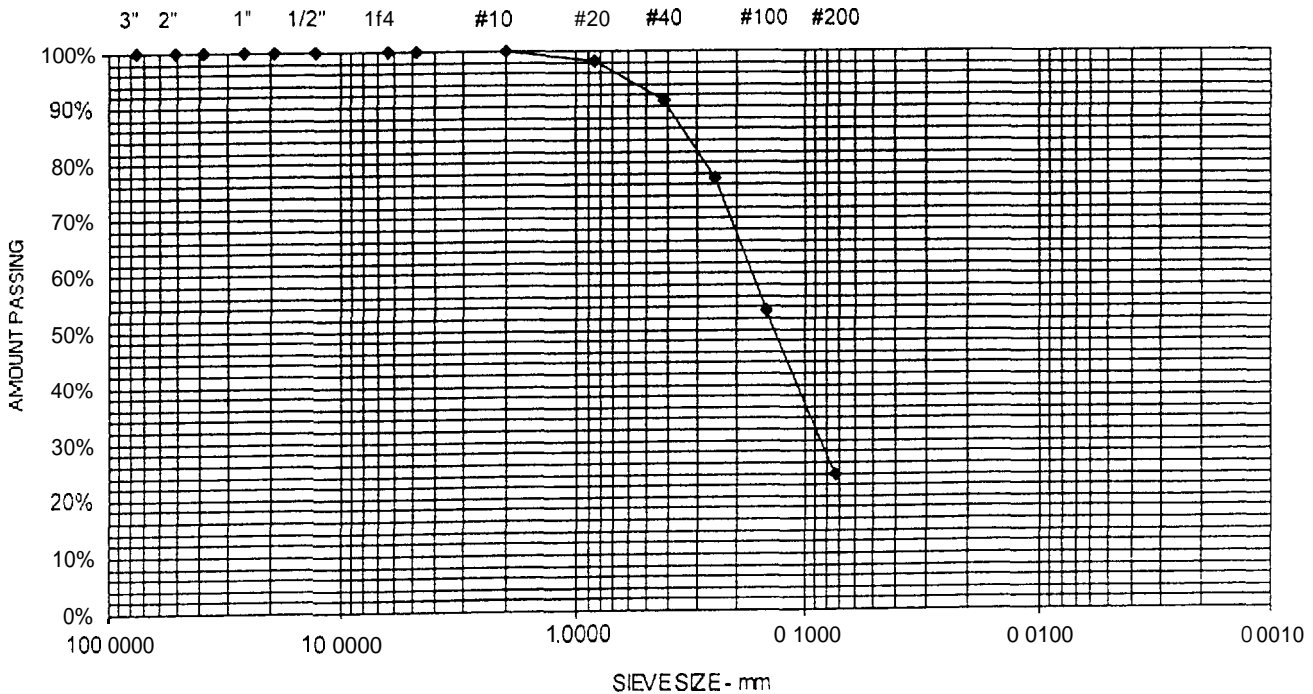
<u>SIEVE OPENING (mm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
152.4	6"	100	
127	5"	100	
101.6	4"	100	
76.1	3"	100	
50.8	2"	100	
38.1	1-1/2"	100	
25.7	1"	100	
19	3/4"	100	
12.7	1/2"	100	
6.35	1/4"	100	
4.76	No. 4	100	0% Gravel
2	No. 10	100	
0.841	No. 20	98	
0.42	No. 40	91	76.3% Sand
0.25	No. 60	77	
0.149	No. 100	53	
0.074	No. 200	23.7	23.7% Fines



Project Name **HARDYPOND PORTLAND RIVERSIDE COMMERCIAL SUBDIVISION**
 SSI
 Client **HARDYPOND CONSTRUCTION INC**
 Exploration **TP-2,S-2,4.0'**
 Material Source

Project Number **04-0238**
 Lab ID **984A**
 Date Received **3/26/2004**
 Date Completed **3/29/2004**
 Tested By **RYAN BRAGG**

<u>SIEVE OPENING (mm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
152.4	6"	100	
127	5"	100	
101.6	4"	100	
76.1	3"	100	
50.8	2"	100	
38.1	1-1/2"	100	
25.7	1"	100	
19	3/4"	100	
12.7	1/2"	100	
6.35	1/4"	100	
4.76	No. 4	100	0% Gravel
2	No. 10	100	
0.841	No. 20	98	
0.42	No. 40	91	76.3% Sand
0.25	No. 60	77	
0.149	No. 100	53	
0.074	No. 200	23.7	23.7% Fines



FROM DESIGNER: ALLET ENGINEERING, INC.
 DATE: 11.17.04
 Job Name: Building Sacer
 Address of Construction: 1039 Riverside St., Portland, ME
2003 International Building Code

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

Building Code and Year BOCA 1999 Use Group Classification(s) MERCHANTILE
 Type of Construction 3B
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES
 Is the Structure mixed use? No if yes, separated or non separated (see Section 302.3) _____
 Supervisory alarm system? YES Geotechnical/Soils report required? (See Section 1802.2) No.

STRUCTURAL DESIGN CALCULATIONS

N/A Submitted for all structural members (106.1, 106.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads (1603.1.1, 1607)

Floor Area Use	Loads Shown
<u>No Floors above grade</u>	<u>1.0</u>
_____	<u>1.0</u>
_____	<u>1.0</u>
_____	<u>N/A</u>

N/A Live load reduction (1603.1.1, 1607.9, 1607.10)
N/A Roof live loads (1603.1.2, 1607.11)

60 Roof snow loads (1603.1.3, 1608)
42.0 Ground snow load, P_g (1608.2)

1.0 If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3)

1.0 If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1)

1.0 If $P_g > 10$ psf, snow load importance factor, I_s (Table 1604.3)

1.0 Roof thermal factor, C_t (Table 1608.3.2)

N/A Sloped roof snowload, P_s (1608.4)

C Seismic design category (1618.3)

Conc. Braced Fr. Basic seismic-force-resisting system (Table 1617.8.2)

5 Response modification coefficient, R , and deflection amplification factor, C_d (Table 1617.8.2)

Equiv. Lateral Force Analysis procedure (1618.6, 1617.5)

63.5K Design base shear (1617.4, 1617.8.1)

Wind loads (1603.1.4, 1609)

1609.1 Design option utilized (1609.1.1, 1609.6)

85 Basic wind speed (1609.3)

1.10 Building category and wind importance factor, I_w (Table 1604.5, 1609.5)

C Wind exposure category (1609.4)

± 25 Internal pressure coefficient (ASCE 7)

32.4/28.6 PSF Component and cladding pressures (1609.1.1, 1609.6.2.2)

29 PSF Main force wind pressures (1609.1.1, 1609.6.2.1)

Earthquake design data (1603.1.5, 1614 - 1623)

1614.1 Design option utilized (1614.1)

I-C Seismic use group ("Category") (Table 1604.5, 1616.2)

A=16, A=11 Spectral response coefficients, S_{DS} & S_{D1} (1615.1)

Flood loads (1603.1.6, 1612)

N/A Flood hazard area (1612.3)

_____ Elevation of structure

Other loads

N/A Concentrated loads (1607.4)

N/A Partition loads (1607.5)

N/A Impact loads (1607.6)

N/A Misc. loads (Table 1607.6, 1607.8.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

FROM DESIGNER: ALLEN ENGINEERING, INC.
 DATE: 11-17-04
 Job Name: Building Sever
 Address of Construction: 1039 Riverside St., Portland, ME

2003 International Building Code

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

Building Code and Year IBC 2003 Use Group Classification(s) MERCHANTILE
 Type of Construction 3B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES
 Is the Structure mixed use? No separated or non separated (see Section 302.3)
 Supervisory alarm system? YES Geotechnical/Soils report required? (See Section 1802.2) No.

STRUCTURAL DESIGN CALCULATIONS

N/A Submitted for all structural members (100.1, 100.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads (1603.1.1, 1607)

Floor Area Use	Loads Shown
<u>No Floors above grade</u>	<u>1.0</u>
_____	<u>1.0</u>
_____	<u>1.0</u>
_____	<u>N/A</u>

N/A Live load reduction (1603.1.1, 1607.9, 1607.10)
N/A Roof live loads (1603.1.2, 1607.11)
 Roof snow loads (1603.1.3, 1608)
60 Ground snow load, P_g (1608.2)
42.0 If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3)
1.0 If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1)
1.0 If $P_g > 10$ psf, snow load importance factor, I_s (Table 1604.5)
1.0 Roof thermal factor, C_r (Table 1608.3.2)
N/A Sloped roof snowload, P_s (1608.4)

Wind loads (1603.1.4, 1609)

1609.6 Design option utilized (1609.1.1, 1609.6)
100 Basic wind speed (1609.3)
I, 1.0 Building category and wind importance factor, I_w (Table 1604.5, 1608.5)
C Wind exposure category (1609.4)
N/A Internal pressure coefficient (ASCE 7)

Conc. Braced Fr.

B Seismic design category (1616.3)
5 Basic seismic-force-resisting system (Table 1617.6.2)
Eq. Level Force Response modification coefficient, R , and deflection amplification factor, C_d (Table 1617.6.2)
18.0K Analysis procedure (1616.6, 1617.5)
18.0K Design base shear (1617.4, 1617.8.1)

26/23 psf @ 100 ft²
20.5/13.6 psf

Component and cladding pressures (1609.1.1, 1609.6.2.2)
 Main force wind pressures (1609.1.1, 1609.6.2.1)

Flood loads (1603.1.6, 1612)

N/A Flood hazard area (1612.3)
 Elevation of structure

Earthquake design data (1603.1.5, 1614 - 1629)

1614.1 Design option utilized (1614.1)
I Seismic use group ("Category") (Table 1604.5, 1616.2)

N/A
N/A
N/A
N/A

Concentrated loads (1607.4)
 Partition loads (1607.5)
 Impact loads (1607.8)
 Misc. loads (Table 1607.6, 1607.8.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

Spectral response coefficients, S_{DS} & S_{D1} (1615.1)

$S_{DS} = .525$
 $S_{D1} = .233$

FORESIDE ARCHITECTS, LLC

ARCHITECTURE / PLANNING / INTERIOR DESIGN

TRANSMITTAL

RE: Alside Supply Center -
Building Center #7

To: Mr. Mike Nugent
Inspection Service
City of Portland, ME
Phone 874-8716

We are sending you:

- Prints
- Layouts
- Estimates
- Copy of Letter
- Specifications
- Plans
- Photography
- Samples
- Shop Drawings
- Presentation
- Change Order
- Other

Copies	Date	Description
1	12/1/04	Construction Permit + Banner Free Permit from State Fire Marshall

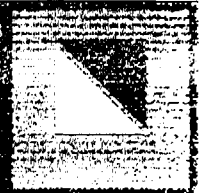
- Returned for corrections
- Approved & noted
- Return _____ corrected prints
- Resubmit _____ copies for _____
- For your use
- Returned after loaned to us
- Construction approval
- For review & comment
- Submit _____ copies for _____
- As requested
- For approval
- For bids due

Remarks: Please contact me with any questions, Thanks.

CC: Bdr Gaudreau @ Hand Pond

Signed: FSWA Rakuph Date: 12-3-04

PO BOX 66736 FALMOUTH, ME 04105
PHONE 207.781.3344 / FAX 207.781.5735 / EMAIL mburnes@maine.rr.com

Foreside Architects, LLC**Architecture/Planning/Interior Design****Mark J. Barnes, AIA - Principal**

Fax Document

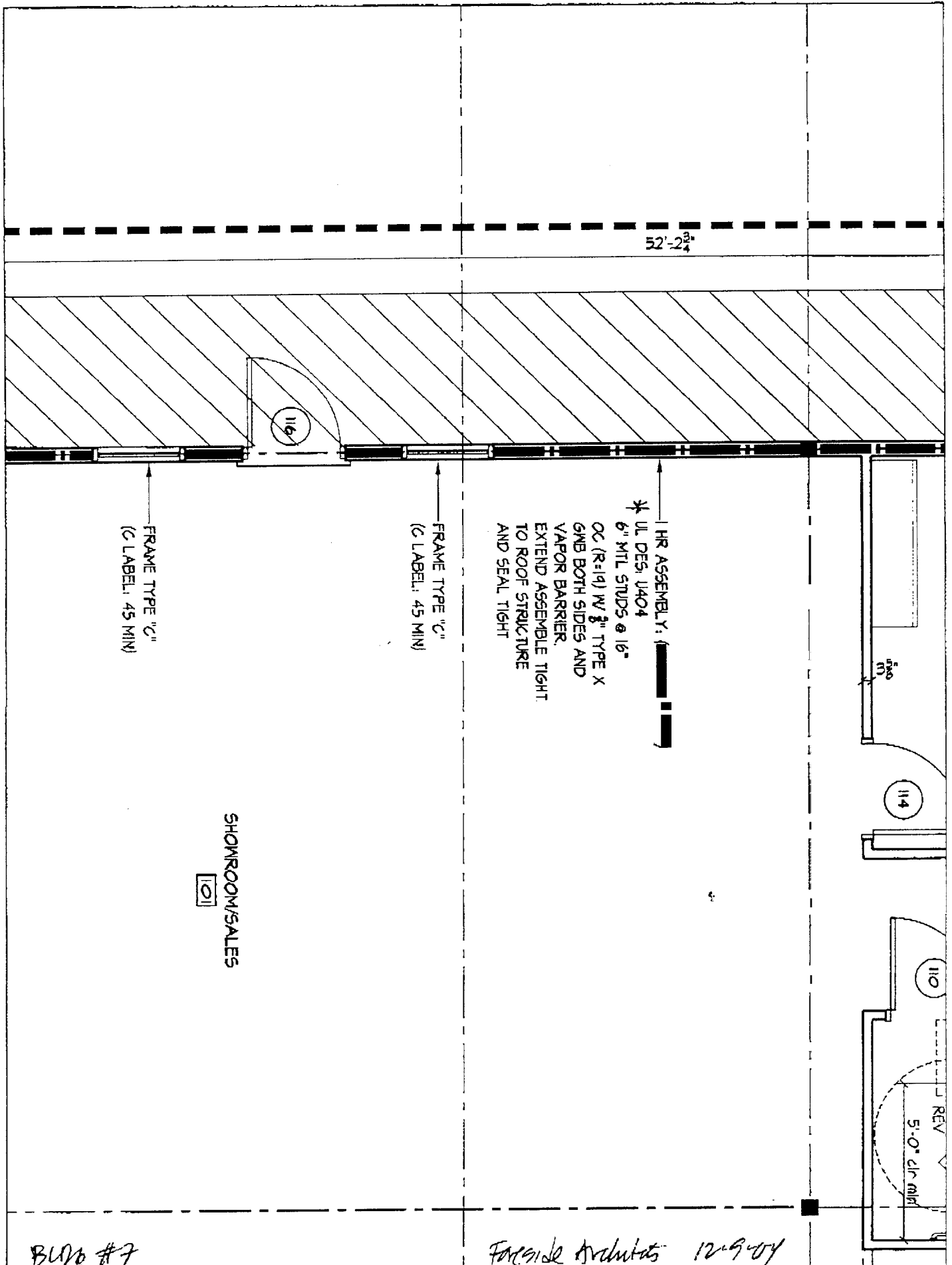
To: Bob Gaudreau
Fax No. 797-8986
From: Scott Pakulski, Foreside Architects
Tele. No. 207-781-3344
Date. December 9.2004
No. Pages: 8

Message:

Bob.
enclosed please find UL information for the **interior** rated partition as requested by Mike Nugent. This is also the system that was submitted and approved by the State Fire Marshal's Office.


Please call with any- questions.

Scott



FRAME TYPE "C"
(C LABEL: 45 MIN)

FRAME TYPE "C"
(C LABEL: 45 MIN)

HR ASSEMBLY: 
 * UL DES. U404
 6" MIL STUDS @ 16"
 OC (R-19) W/ 3/8" TYPE X
 GMB BOTH SIDES AND
 VAPOR BARRIER.
 EXTEND ASSEMBLY TIGHT
 TO ROOF STRUCTURE
 AND SEAL TIGHT

SHOWROOM/SALES

101

BLDG #7

Forside Architects 12-9-04



BXUV.U404

Fire Resistance Ratings - ANSI/UL 263

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Questions?

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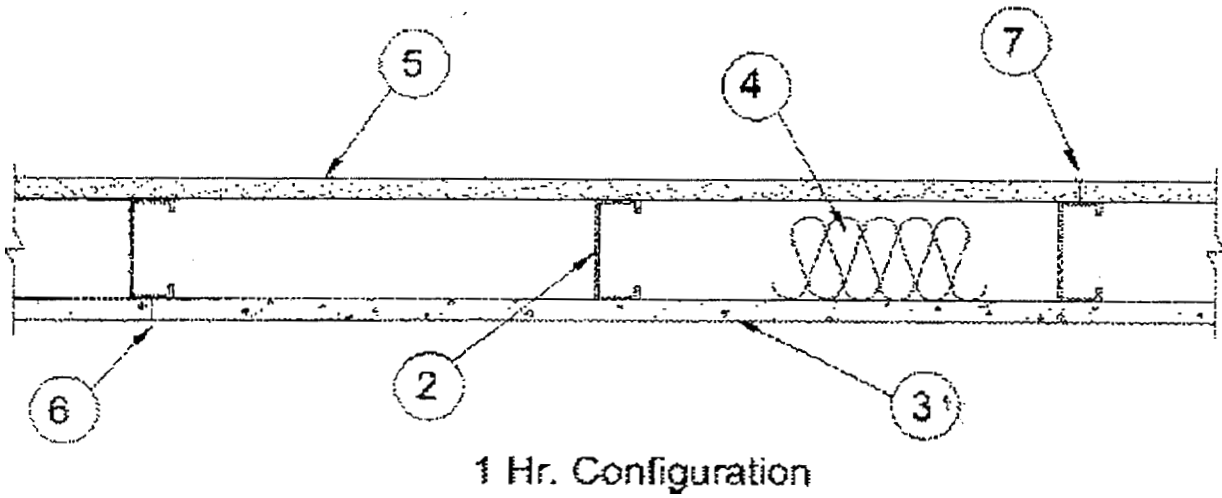
Fire Resistance Ratings - ANSI/UL 263

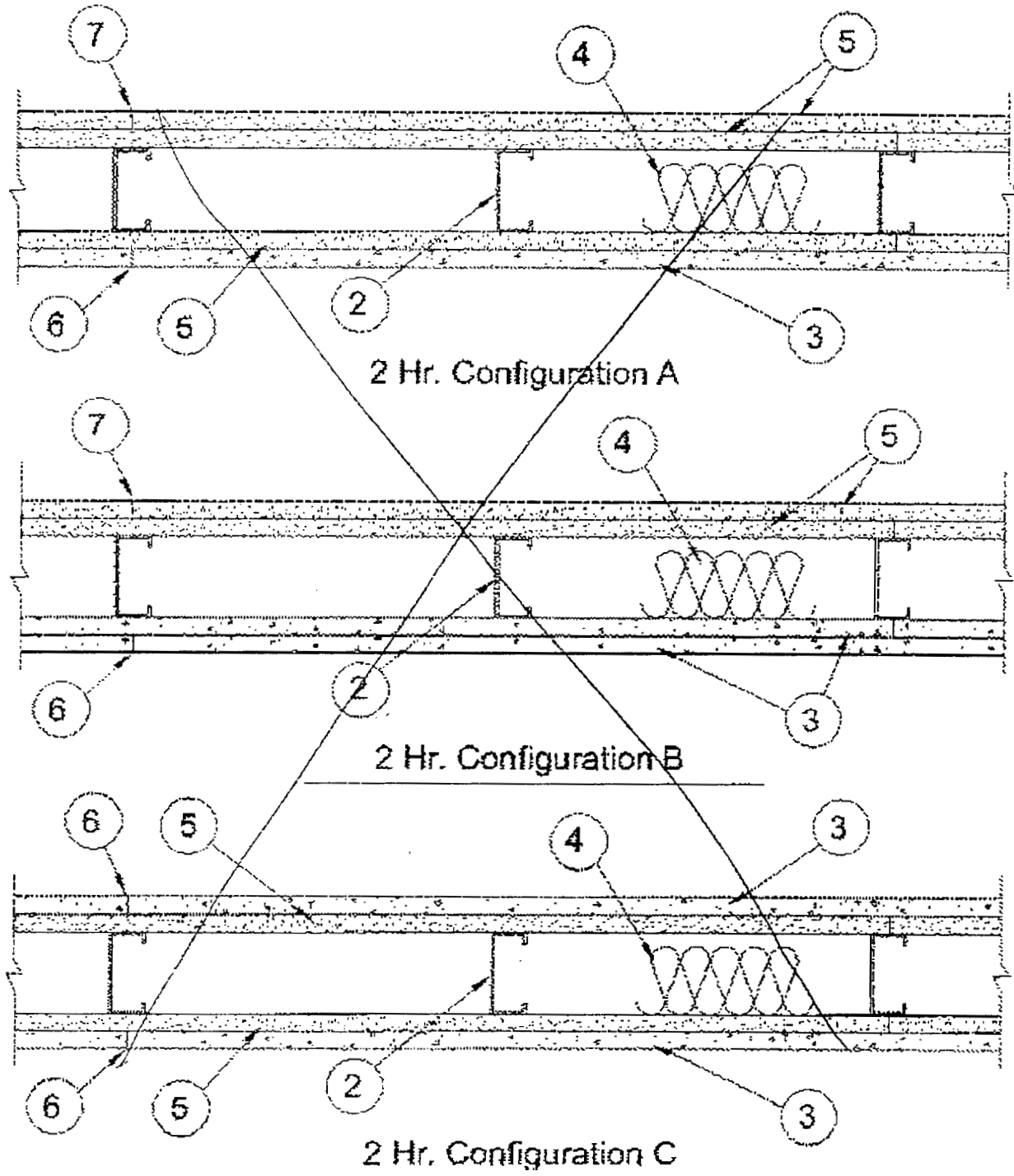
Guide Information

Design No. U404
June 10, 2003

Bearing Wall Rating — 1 and 2 Hr (See Items 2, 3 and 5)

Nonbearing Wall Rating — 1 and 2 Hr (See Items 2, 3 and 5)





1. **Steel Floor and Ceiling Runners** — (Not Shown) — Channel shaped, 3-1/2 in. wide by 1-1/4 in. deep, fabricated from min 20 MSG (0.0329 in., min bare metal thickness) galvanized steel. Attached to floor and ceiling with steel fasteners spaced 24 in. OC max.

2. **Steel Studs** — 3-1/2 in. wide, fabricated from min 20 MSG (0.0329 in., min bare metal thickness) galvanized steel, spaced max 16 in. OC. For bearing walls, studs

shall be designed in accordance **with** the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details **enhancing** the structural integrity of the **bearing** wall assembly, including the axial design load of the **studs**, shall be as specified by the steel **stud** designer and/or producer **and** shall meet the requirements of all applicable local code agencies. Steel studs attached to floor and ceiling runners with 3/8 in. long Type S-12 steel screws on both sides of the **studs** or by welded or bolted connections designed in accordance with the AISI specifications- For nonbearing walls, studs to be cut 3/8 to 3/4 in. less than assembly height and friction-fitted into floor **and** ceiling runners .

3. Cementitious Backer Units" — 1/2 in. or 5/8 in. thick, **applied** vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with corrosion resistant, chamfered, ribbed wafer head screws **with a minimum** head diameter of .400 inch. For nonbearing systems, fastened to studs and bottom runners with the uppermost screws placed 1/2 in. to 2 in. **below** the bottom edge of the leg of the top member. Horizontal joints need not be backed by framing. **1-Hr System** - Screws shall be min 1-1/4 in. long **and spaced** a max of 8 in. OC. All vertical joints staggered one stud cavity from gypsum board vertical joints **on the** opposite side of studs. Horizontal edge joints **and** horizontal butt joints on opposite sides of **studs** need not be staggered. **2-Hr System** - For the base layer in Configuration B, the screws shall be min 1-1/4 in. long and spaced a max of 12 in. OC. For the face layers. screws shall be 1-5/8 in. long and spaced a max of 8 in. OC. All face layer joints offset min 12 in. from underlying base layer joints. Joints in either **layer** need not be staggered from **joints** on the opposite side of the wall.

UNITED STATES GYPSUM CO — DUROCK Exterior Cement Board, or DUROCK Brand Cement Board.

4. Batts and Blankets" — Min 3 in. **thick** mineral wool insulation batts, friction-fitted between studs -

THERMAFIBER INC — Type SAFB.

5. Gypsum Board* — 5/8 in. **thick**, with square *or* tapered edges, **applied** vertically or horizontally with vertical joints centered over studs. Horizontal joints need not be backed by framing. Fastened with **Type S-12** screws. **1-Hr System** - For vertical application, fastened to *studs and runners* **with** 1 in. long screws **spaced max 8 in.** OC at vertical edges and spaced **max 12 in.** OC in the field. For horizontal application, fastened to studs **and** runners with 1 in. long screws **spaced max 8 in.** OC. Vertical joints staggered one stud cavity from cement board vertical joints on opposite side of studs. Horizontal edge joints and horizontal **butt** joints on opposite sides of studs need not be staggered. **2-Hr System** - **Base** layer with an overlying gypsum board face **layer**, fastened with 1 in. long screws spaced max 16 in. OC *to studs and runners*. Base layer **with** an overlying cement board face layer, fastened with 1 in. long screws **spaced max 12 in.** OC *to studs and runners*. Face layers fastened **with** 1-5/8 in. long screws **spaced max 16 in.** OC *to studs and runners* **with** screws offset 8 in. from face layer screws. Face **layer** joints offset min 12 in. from base layer joints. Joints in either layer need not be staggered from joints **on the opposite side of the wall**.

CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX.

6. Joints — Covered with glass fiber mesh tape **and latex** modified Portland cement mortar or basecoat, or Type I organic adhesive.

7. Joints — When tapered edge gypsum board is used, face layer joints covered with joint compound **and** paper tape. **As an alternate, gypsum veneer** plaster may be **applied** to the entire surface of Classified veneer baseboard with joints reinforced. When square-edge gypsum board is used, treatment of joints **is optional**.

8. Vapor Ketarder, Water Barrier or Weather Resistive Barrier — (Optional — Not shown) — As required.

*Bearing the UL Classification Mark

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[UL Recognized Components](#)

[Products Certified for Canada](#)

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assembly shall be constructed of the materials and *in the* manner described in the **individual** ti400 and V400-Series Wall and Partition Design in the UL Fire Resistance Directory and shall include *the* following construction features:

A. Light Gauge Framing* - Deflection Trak — Deflection trak of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C) and with offset legs to accommodate wall cladding (Item 3A). Deflection trak installed parallel or perpendicular to the floor units. When installed perpendicular (Configuration A), min No. 25 gauge deflection trak secured on both sides to valley of floor units with 1-1/2 in. long welds spaced max 12 in. OC. Min No. 20 gauge deflection trak may be secured with steel fasteners spaced 12 in. OC. When installed parallel (Configuration B), min No. 25 gauge deflection trak secured on one side to valley of floor units with 1-1/2 in. long welds spaced 12 in. OC. Min No. 20 gauge deflection trak may be secured with steel fasteners spaced max 12 in. OC. The other side of the deflection trak is secured to Z-Furring clips (Item 2B) with two No. 8 by 1/2 in. long tec screws. On concrete floor (Configuration C), min No. 20 gauge deflection trak attached to concrete at ceiling with steel fasteners spaced max 12 in. OC.

FIRE TRAK CORP — Shadowline

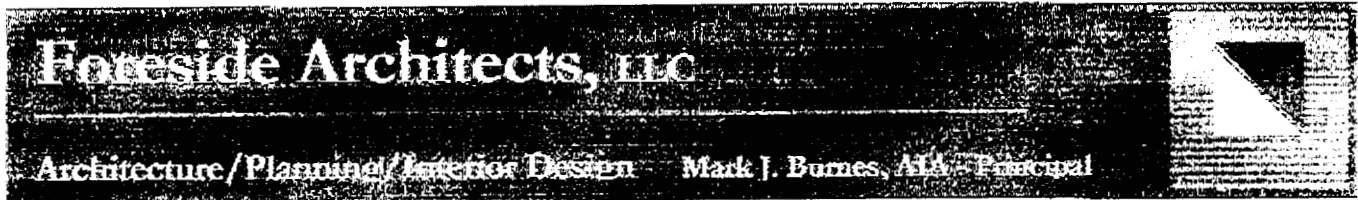
B. Z-Furring - (Parallel Units) — When trak is installed parallel to floor units, Z-Furring clips are attached to the bottom of the floor units within the crests with two steel fasteners. Clip spacing not to exceed 24 in. OC.

C. Studs — Steel studs to be min 2-1/2 in. wide and as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Studs cut 1-1/2 in. less in length than the assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. OC.

D. Gypsum Board* — Gypsum board sheets installed and attached to studs and runners as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nominal 1 in. gap shall be maintained between top of the gypsum board and the bottom flange of the deflection trak. Top row of screws shall be installed into the studs 3 in. below the top edge of the gypsum board sheets.

The hourly assembly rating of the joint system is equal to the fire rating of the wall.

Firestop Configuration A



Fax Document

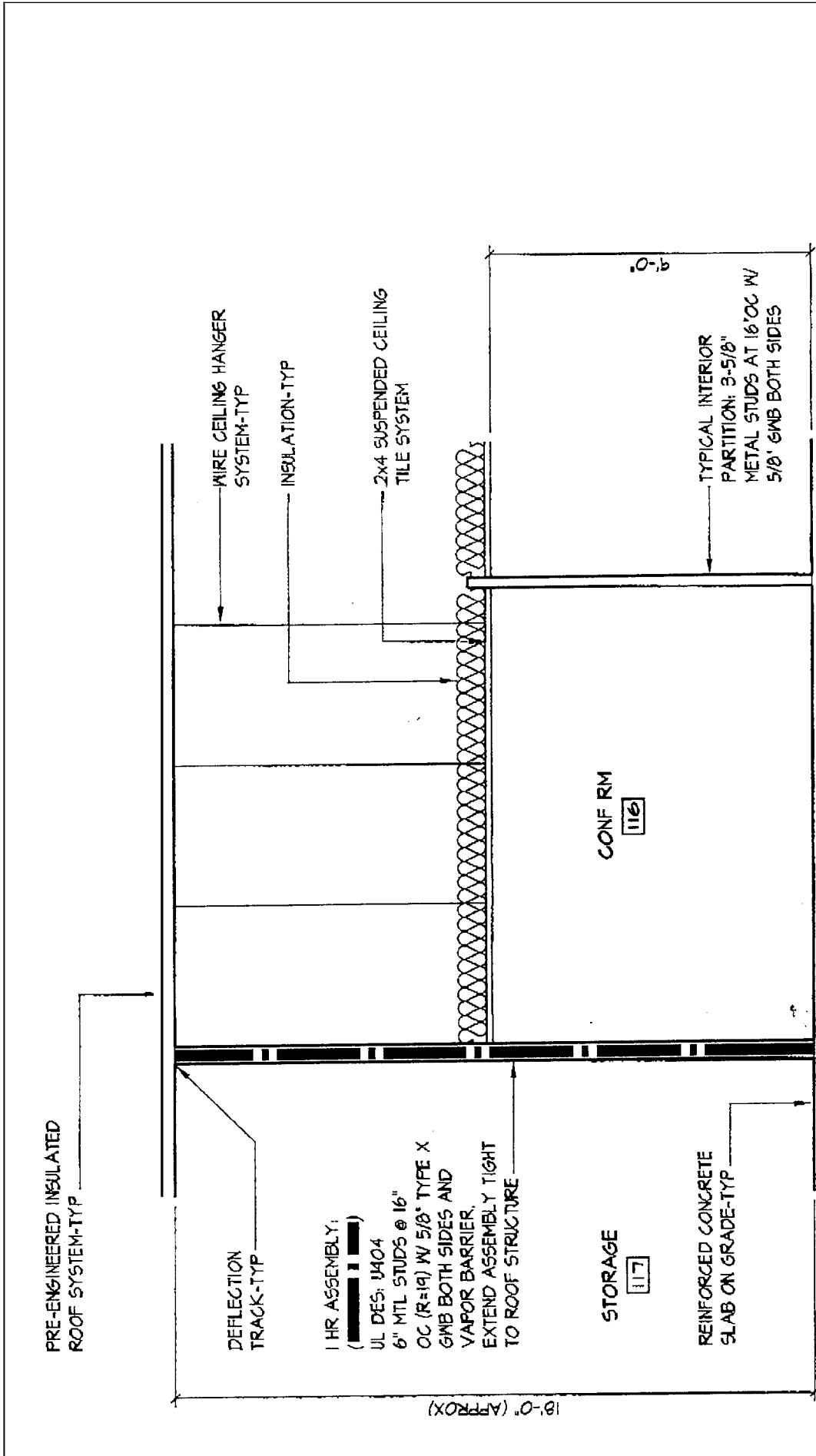
To: Bob Gaudreau
RE: Building 7, 1039 Riverside Street
Fax No. 797-8986
From: Scott Pakulski, Foreside Architects
Tele. No. 207-781-3344
Date: December 9, 2004
No. Pages: 2

Message:

Bob,
enclosed please find a sketch showing the typical interior cross section for Building 7 as requested by Mike Nugent.

Please call with any questions.

Scott Pakulski



1 TYPICAL INTERIOR CROSS-SECTION
SCALE: 1/4" = 1'-0"

FORESIDE
ARCHITECTS, LLC
P.O. Box 66736
Portland, Maine 04105 Date: 9 December 2005

Building 7
1039 Riverside Street
Portland, Maine

VCT FLOORING
BUILDING #7#8

MANUFACTURING SPECIFICATIONS	US	METRIC
Style	Essentials™	
Construction	Designer Essentials™ Composed of binder (organic), fillers (inorganic), and pigments. The organic binder <i>portion</i> contains vinyl resins, plasticizers, additives, and 10% or greater, recycled vinyl content. The inorganic portion is natural limestone	
S	12" x 12"	305mm x 305mm
Gauge	1/8"	3.2
Package Count	45/cdn	
Shipping Weight	Average 65 lbs, per carton	Average 29.5 kg per carton
Static Load Limit	75 p.s.i.	5.28 kg/cm ²
ASTM Specification (F-1066)	Class 2	
Federal Specification (SS-T-312B) (1)	Type IV, Composition 1	
Canadian Specification (CCMC CSA-A-126.1)	VCT Type A	
Flooring Radiant Panel Test (ASTM-E-648)	Passes (Class 1)	
Flame Spread (ASTM E-84)	Passes	
N.B.S. Smoke Chamber Test (ASTM-E-662)	<450 (Flaming Mode)	
MIL (STD 1623D)	Passes	
Installation Adhesive	Mannington V-11 / 200 ft ² gal	

- Limited Five Year Commercial Warranty
- Color and pattern extend through the thickness of the tile.
- Meets the requirements of the Americans with Disabilities Act for static coefficient of friction as manufactured.
- Mannington Commercial VCT is not recommended for use in hospital operating suites, commercial kitchens, exterior areas, or in areas that require static dissipation.
- VCT is not recommended in commercial areas where the consistent temperature either exceeds 100° F (38° c) or is below 55° F (13° c).
- Wood subfloors directly on concrete or sleepers either on or below grade are unsatisfactory for VCT installation.
- Dirt, wetness, finish selection and maintenance schedule may cause significant variation in actual performance.
- Specifications are based on averages from normal manufacturing tolerances. Such variations do not effect product performance.
- This product is intended solely for use as an indoor floor covering and is not recommended or sold for any other purpose.
- Use door mats outside each entrance to prevent dirt, sand, grit, and other substances from being tracked onto floor.
- Floor designs are copyrighted by Mannington Mills, Inc. © Mannington Mills, Inc. 2002.

ARCHITECTURAL SPECIFICATIONS

Guide Specifications: All floors shown in the Finish Schedule or listed in this specification shall be Mannington Commercial Essentials™ and/or Designer Essentials™, manufactured in the USA by Mannington Resilient Floors, Salem, New Jersey, 08079. Color number _____ (insert number). The product shall be of through-pattern construction, and shall contain recycled vinyl content as a percentage of the product composition. The product shall have an overall gauge of 1/8" (3.2 mm) nominal, and be available in a 12" x 12" (305 mm x 305 mm) nominal size. The vinyl composition tile shall be manufactured in accordance with ASTM Specification F-1066, Class 2 (through-pattern), or Federal Specification SS-T-312B(1) as a Type IV, Composition 1 product and shall be asbestos free. The product shall have a limited 5-year commercial warranty against manufacturing defects. The adhesive shall be Mannington Commercial V-11 Premium Latex Adhesive. Installation shall be in accordance with the Mannington Professional Installation Guide.

For information on installation and maintenance, contact our Technical Service Department at 1-800-41-2262, or Mannington Commercial Facts On Demand at 1-800-FLOOR-85. Or visit our website at www.mannington.com.

NINGTON
MERCIAL.

Statement 26 #Q8405

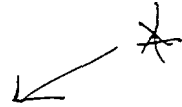
CARPET BUILDING #7 #8

SPECIFICATIONS

Construction:	Tufted Loop Pile
Fiber:	Queen Solution Dyed Nylon
Yarn Ply:	3 Ply
Tufted Yarn Weight:	26 oz./ sq. yd.
Dye Method:	Solution Dyed
Gauge:	1/10
Tufted Pile Height:156
Finished Pile Density:140
Stitches Per Inch:	10.33
Primary Backing:	Woven Polypropylene
Secondary Backing:	ActionBac [®]
Total Weight:	62 oz. cu. yd.
Density:	6,686
Density Weight:	173,829
Width:	12 ft.

PHYSICAL TESTING

ASTM E - 648 (Radiant Panel)	Class I
NBS Smoke Chamber Test	Less than 450 (Flaming)
Static Propensity	Less than 3.5 KV



Product specifications are derived from averages resulting from normal manufacturing tolerances in yarn, fiber, temperature, humidity and color, and may vary within normal industry tolerances. Performance is not affected by such variances.

As in all quality carpets, colors are subject to dye lot variations.

WARRANTY - QUEEN TEN YEAR WEAR

Statement 28 #Q8406

SPECIFICATIONS

Construction:	Tufted Loop Pile
Fiber:	Queen Solution Dyed Nylon
Yarn Ply:	3 Ply
Tufted Yarn Weight:	28 oz./ sq. yd.
Dye Method:	Solution Dyed
Gauge:	1/10
Tufted Pile Height:156
Finished Pile Density:149
Stitches Per Inch:	11
Primary Backing:	Woven Polypropylene
Secondary Backing:	ActionBac [®]
Total Weight:	64 oz. cu. yd.
Density:	6,765
Density Weight:	189,423
Width:	12 ft.

PHYSICAL TESTING

ASTM E - 648 (Radiant Panel)	Class I
NBS Smoke Chamber Test	Less than 450 (Flaming)
Static Propensity	Less than 3.5 KV

Product specifications are derived from averages resulting from normal manufacturing tolerances in yarn, fiber, temperature, humidity and color, and may vary within normal industry tolerances. Performance is not affected by such variances.

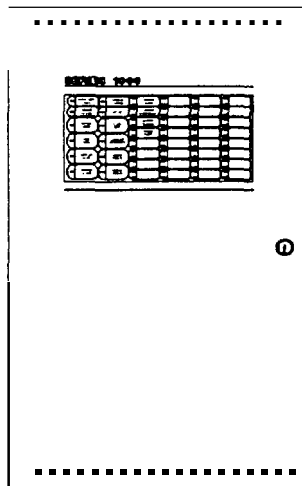
As in all quality carpets, colors are subject to dye lot variations.



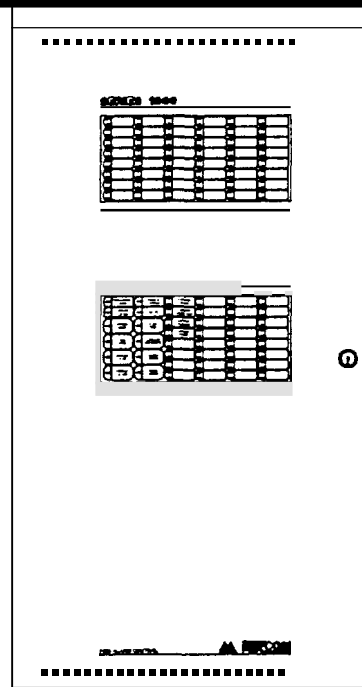
FA-1000 SERIES

Microprocessor Based - Fire Alarm Control Panel

INSTALLATION and OPERATION MANUAL



UP TO 24 ZONES



UP TO 72 ZONES

NOTICE

All information, documentation, and specifications contained in this manual are subject to change without prior notice by the manufacturer.

1.0 INTRODUCTION

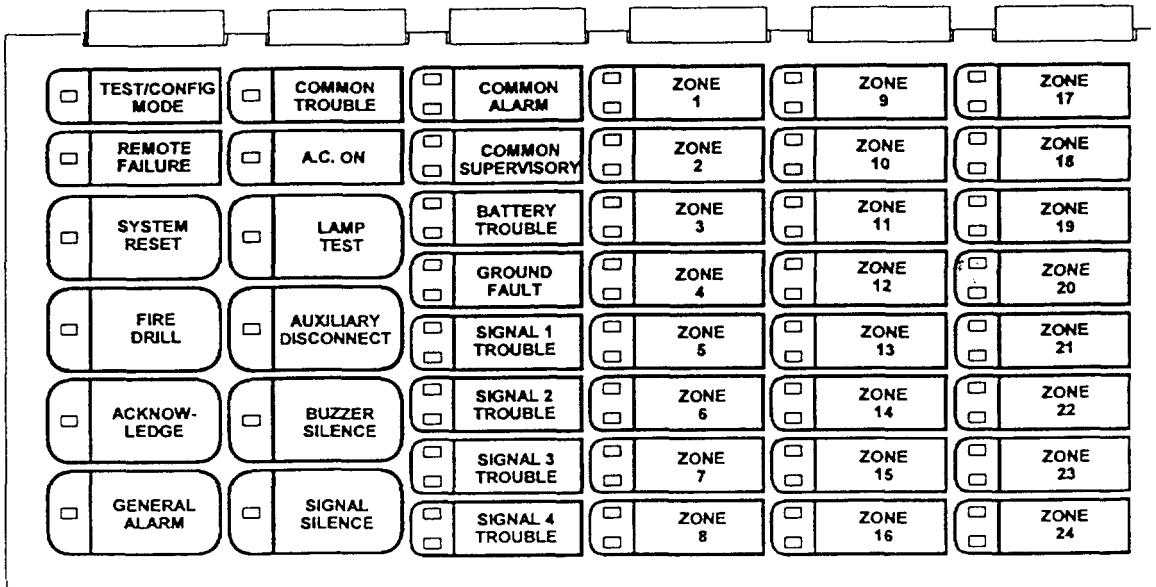
Introduction :

Mircom's **SERIES 1000 Fire Alarm Control Units** provide a large capacity of supervised Class A or B (UL Style D or B) Initiating Circuits, and supervised Class A or B (UL Style Z or Y) indicating Circuits. All Circuits are supervised for opens and ground faults, and Indicating Circuits for shorts. Optional Modules include additional Initiating and Indicating Circuits, Relay, and Polarity Reversal & City Tie. Flush or surface mountable enclosures can be used for retrofits and on new installations.

1.1 Overall Features:

- T Basic unit has 8 Class B (Style B) Initiating Circuits which may be configured as 4 Class A (Style D) Circuits. These are configurable as Alarm, Verified Alarm, Waterflow Alarm, Sprinkler Alarm, Latching or Non-Latching Supervisory, or Trouble-Only Circuits. There are two LED's per Circuit; one for Trouble (Amber), and one for Status (Red/Amber).
- T Basic unit has 4 Power Limited Class A/B (Style Z/Y) Indicating Circuits with individual trouble indicators. Each Circuit can be configured as Audible (silenceable) or Visual (non-silenceable). Audibles may be steady, Temporal Code, California Code, or March Time.
- T Initiating and Indicating Circuits may be individually Disconnected by a DIP Switch (Slide-Switch on "S" Versions for the USA Market only).
- T Configurable Signal Silence Inhibit, Auto Signal Silence, Two-Stage Operation, One-Man Walk Test.
- T Subsequent Alarm, Supervisory, and Trouble operation
- T Two outputs for 4 wire resettable smoke power supply (200 mA each Max., 300 mA total Max.)
- T Auxiliary Relay Contacts for Common Alarm and Common Supervisory (disconnectable), and a Common Trouble relay.
- T RS-485 Interface for RA-1000 Series Remote Multiplex Annunciators.
- T Optional Modules for additional Initiating, Indicating, & Relay Circuits, & City Tie & Polarity Reversal Signalling.
- T Easy Configuration via Push-Buttons and Switches.
- T Extensive transient protection
- T Surface Mountable Enclosures, Flush Trims Available

1.2 Controls and Indicators: 8 Push-Buttons, 16 Common Indicators, provision for up to 24 Circuits
(Expansion Chassis adds provision for up to another 48 Circuits)



7.7 POWER SUPPLY CONNECTIONS

The power supply is part of the Main Chassis. The ratings are:

Model MCC-1024-6(S) Main Chassis:

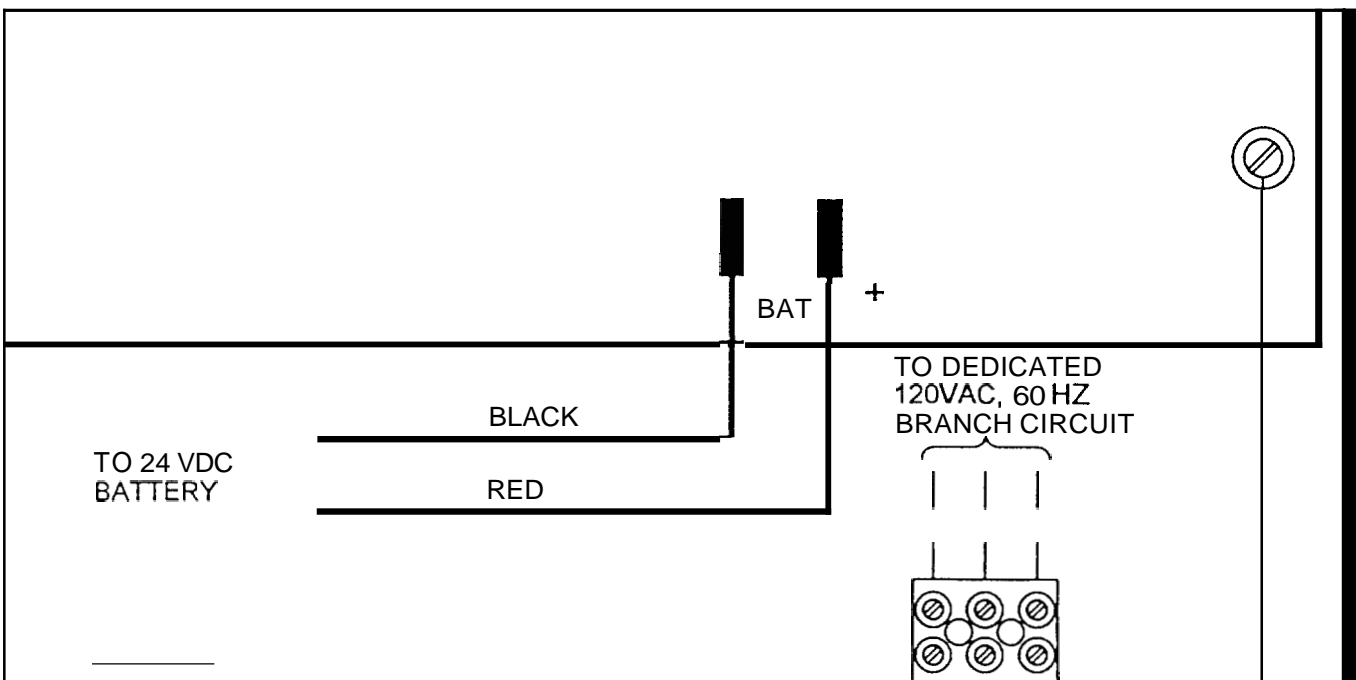
Electrical input ratings:	120 VAC, 60 Hz, 4 A main primary circuit breaker
Power supply total current:	6 A maximum
Battery Fuse on Main Module:	Replace with 20 Amp, 1-1/4" Fast Acting Fuse

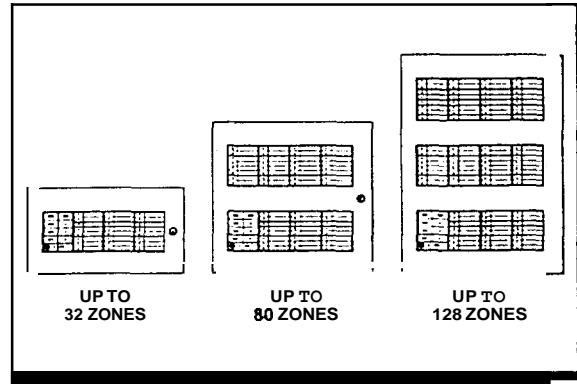
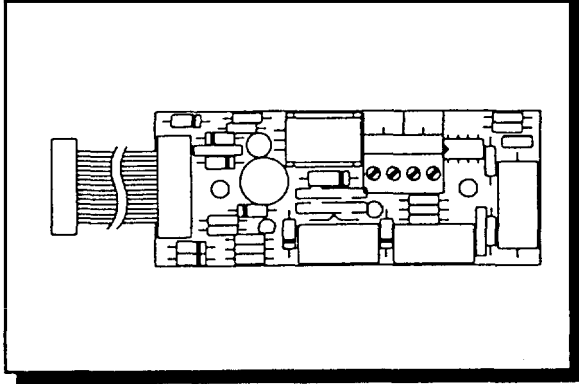
Model MCC-1024-12(S) Main Chassis:

Electrical input ratings:	120 VAC, 60 Hz, 4 A main primary circuit breaker
Power supply total current:	12 A maximum
Battery Fuse on Main Module:	Replace with 20 Amp, 1-1/4" Fast Acting Fuse

CAUTION: Do not exceed power supply ratings.

See Appendix for specifications. Wire as shown using proper wire gauges.





3.1 CHASSIS TYPES

- Model: MCC-1024-6 Main Chassis with 8 Style B / 4 Style D Initiating Circuits, 4 Style Y or Z Indicating Circuits, and a 6 ampere Power Supply. See Module Specifications for more detail.
- Model: MCC-1024-12 Same as MCC-1024-6, but with a 12 ampere Power Supply. See Module Specifications for more detail.
- Model: MCC-1024-6S Same as MCC-1024-6, but with Disconnect Slide Switches instead of DIP Switches. For the USA Market only.
- Model: MCC-1024-12S Same as MCC-1024-12, but with Disconnect Slide Switches instead of DIP Switches. For the USA Market only.
- Model: ECH-1048 Expander Chassis for up to 48 additional Zones / Circuits. DIP Switches for Disconnect only. See Module Specifications for more detail.

3.2 SERIES 1000 FIRE ALARM CONTROL PANEL - KITS

- Model: FA-1008K Expandable Kit for the Canadian Market, 8 Class B (or 4 Class A) Initiating & 4 (Class A or B) Indicating Circuits, Expandable to 24 Circuits, 6 Amp Power Supply (MCC-1024-6 Main Chassis in a BB-1024 Enclosure).
- Model: FA-1008KU Expandable Kit for the **USA** Market, 8 Class B (or 4 Class A) Initiating & 4 (Class A or B) Indicating Circuits, Expandable to 24 Circuits, 6 **Amp** Power Supply (MCC-1024-6 Main Chassis in a BB-1024R Enclosure).
- Model: FA-1012K Non-Expandable Kit for the Canadian Market only, 12 Class B Initiating & 2 Class B Indicating Circuits Fire Alarm Kit. 6 Amp Power Supply. 'Packaged in a BB-1024 Enclosure.

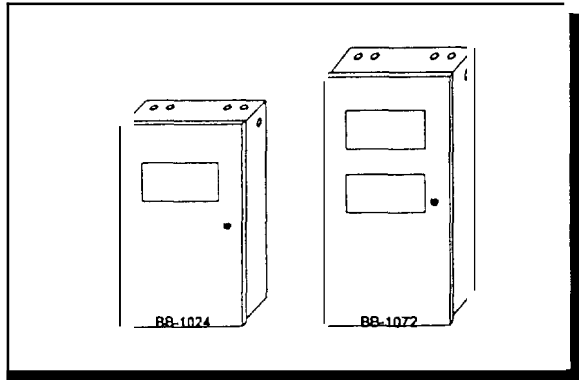
For any other sizes, etc., components are ordered separately.

3.3 SERIES 1000 ACCESSORIES

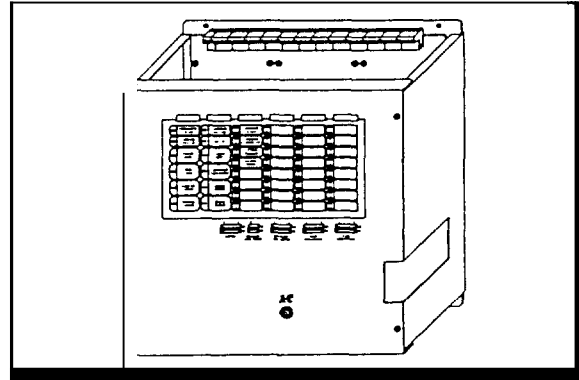
- Model: MP-300 EOL Resistor Plate
- Model: MP-300R EOL Resistor Plate, Red
- Model: MP-300S EOL Resistor Plate, Stainless steel finish

3.0 SYSTEM COMPONENTS

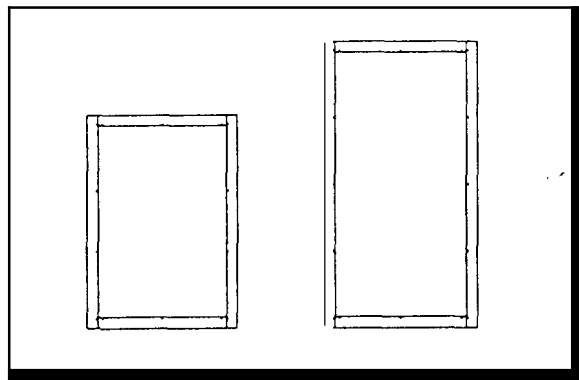
Model: **BB-1024** Surface Endosure 24 Circuits
BB-1072 Surface Endosure 72 Circuits
 (add suffix R for Red Enclosure)



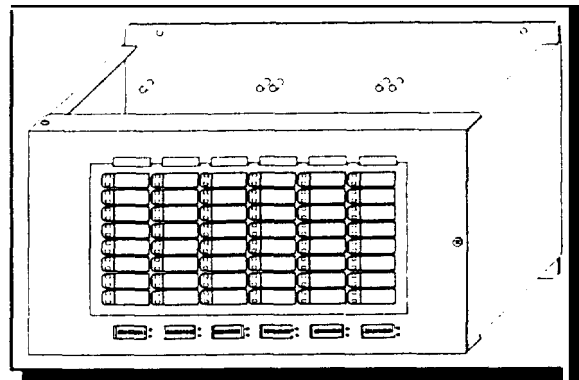
Model: **MCC-1024-6** 6 A Main Chassis
MCC-1024-12 12 A Main Chassis
 (add Suffix S for Slide Switches)



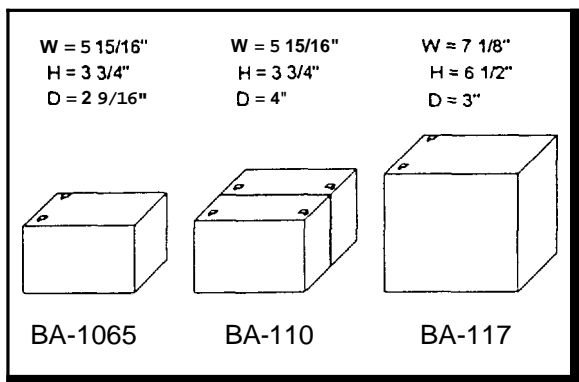
Model: **FA-1024TR** Flush Trim Ring
FA-1072TR Flush Trim Ring
 (add another suffix R for Red Enclosure)



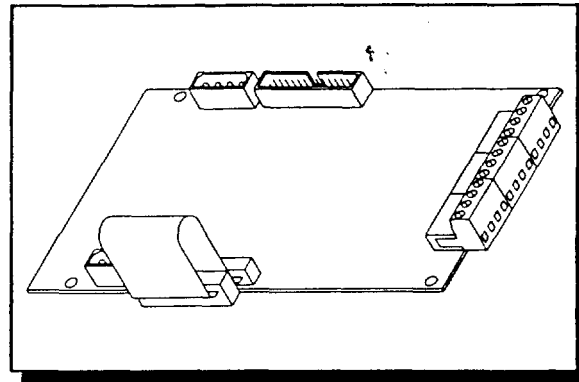
Model: **ECH-1048** 48 Display Expander Chassis



Model: Batteries (6.5 to 40 AH)



Model: Circuit Adder Modules
 DM-1008(A), SGM-1004(A), RM-1008(A),

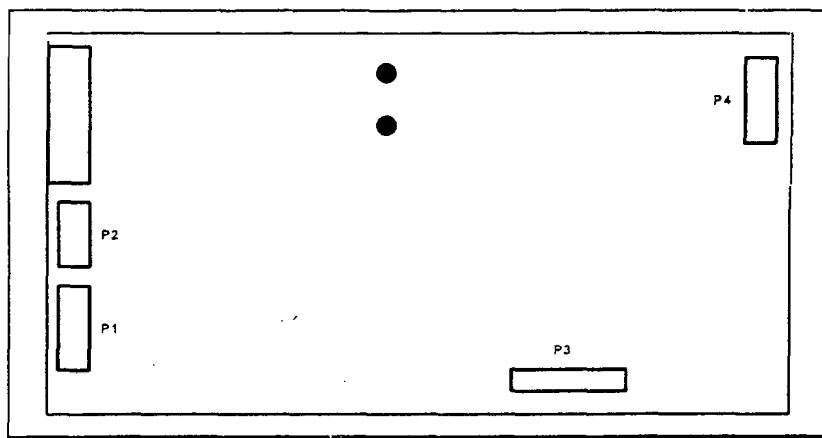




DACT-700A

Digital Communicator

INSTALLATION and OPERATION MANUAL



NOTICE

All information, documentation, and specifications contained in this manual are subject to change without prior notice by the manufacturer.

INTRODUCTIONS AND FEATURES

DACT-100A: A single board Digital Communicator that can connect via Contact Closure Inputs on a single ribbon cable to a Mircom Fire Alarm Control Panel (FACP) such as the FA-200 Series. It can transmit Common Alarm, Common Supervisory, and Common Trouble information on *two* telephone lines.

- ✓ Communicates to a FACP via Contact Closure **Inputs** (DACT-100A).
- ✓ User Configurable with **CFG-100** Configuration Tool. This includes a 4-Line LCD Display and Keypad in a rugged metal enclosure, with a ribbon cable to connect to the Communicator.
- ✓ Communicates to a Central Monitoring Station using Aderenco Contact ID or SIA DCS Protocols.
- ✓ The **DACT-100A** can transmit Common-Alarm, Common Supervisory and Common Trouble information on two telephone lines.

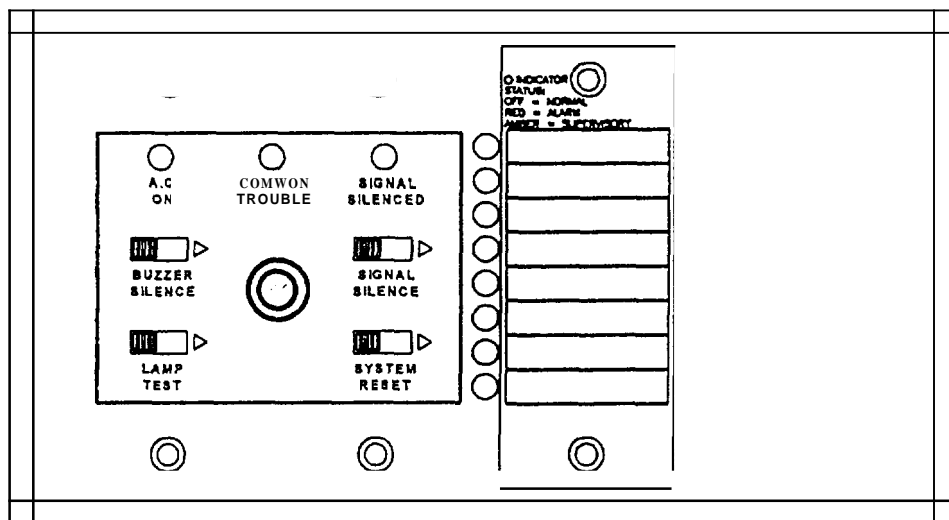
The **DACT Products** continuously supervise the state of each of two connected Telco Lines (at approximately 1 minute intervals) by a Line-DC level measurement. If supervision fails, a Line #1 or Line #2 Trouble event will be reported. Once a Line has been restored, a Line Trouble Restored event will be reported. The product will *always* report events sorted in the order in which they are received / recognized. The products are capable of reporting multiple event to a single Account number, within a single call session. Up to 3 retries, for a single message not yet reported, will be made within a single call-attempt. A failure to communicate to either or both Accounts will generate a corresponding event which will be queued for reporting.



RAM-208

Remote Multiplex Annunciator Panels

WIRING and INSTALLATION INSTRUCTION



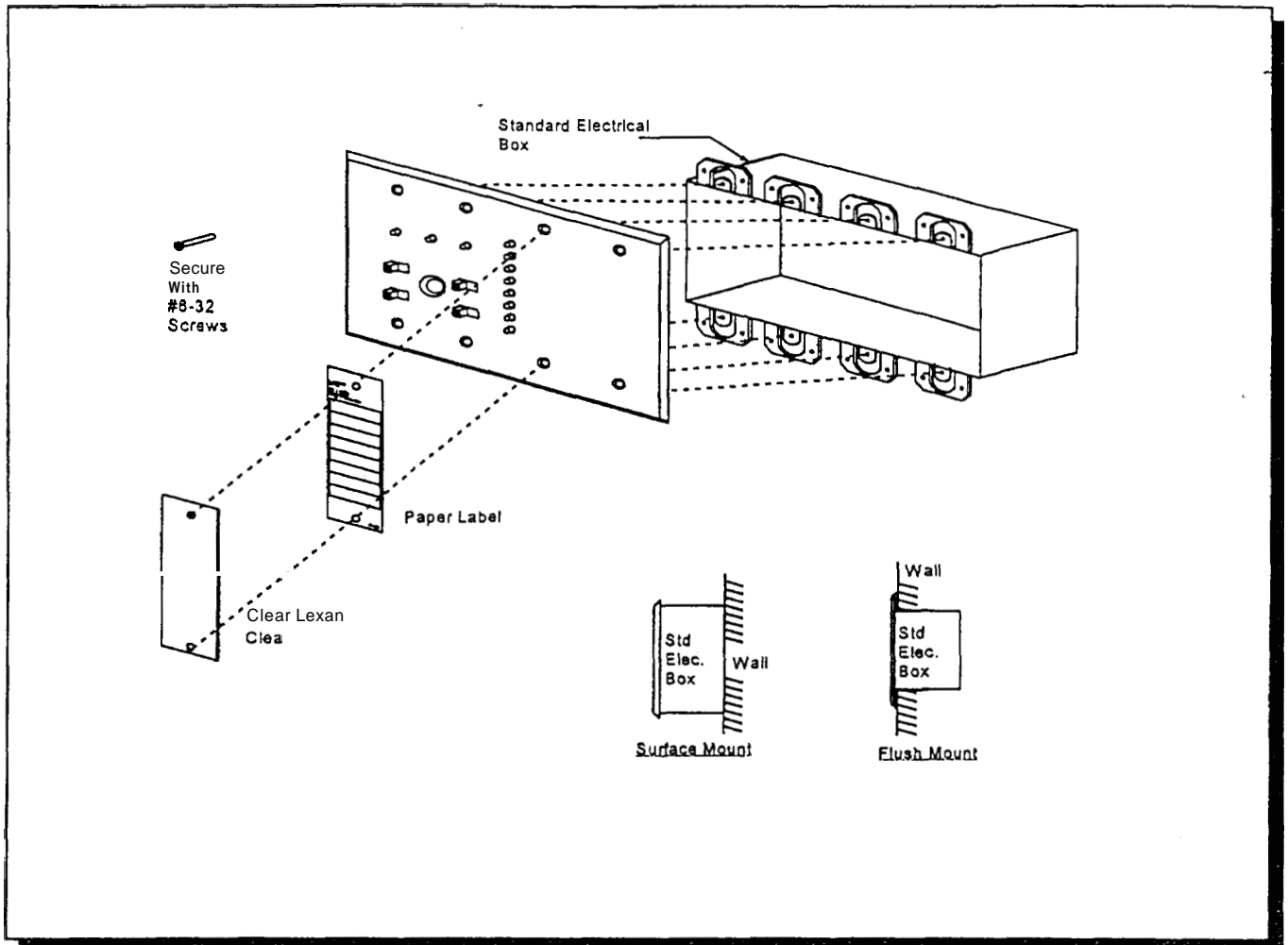
NOTICE

All information, documentation, and specifications contained in this *manual* are subject to change without prior notice by the manufacturer.

INTRODUCTION:

Mircom's RAM-208 Annunciator is an 8 Circuit Annunciator for use with **Mircom's** FA-201, FA-202, FA-204, **FA-204E** Fire Alarm Control **Panels**. The annunciators mount into standard 4-gang electrical boxes, and may not be expanded. Control access is by a keyswitch. Each Circuit Indicator is a bi-colour LED that is automatically configured to match the Fire Alarm Control Panel configuration.

INSTALLATION INSTRUCTION:



NOTES:

Note that the RAM-208 is supplied with **NP-386 Labels** for zone identification.

This Annunciator displays Initiating Circuit Status only (no individual Circuit Troubles). Indicating and Relay Circuits are not remotely displayed. See the Fire Alarm Control Panel Manual for more details.

The RAM-208 has a keyswitch to enable the four slide-switch controls. The key should be appropriately secured.

CONTROLS & DISPLAYS:

For precise definitions of Control 8 Display operation, refer to the manual for the Fire Alarm Control Panel that the Annunciator is being connected to.

Controls

System Reset, Signal Silence, Buzzer Silence, Lamp Test.

Displays

AC On, Common Trouble, Signal Silence, 8 Circuit Status LED's.

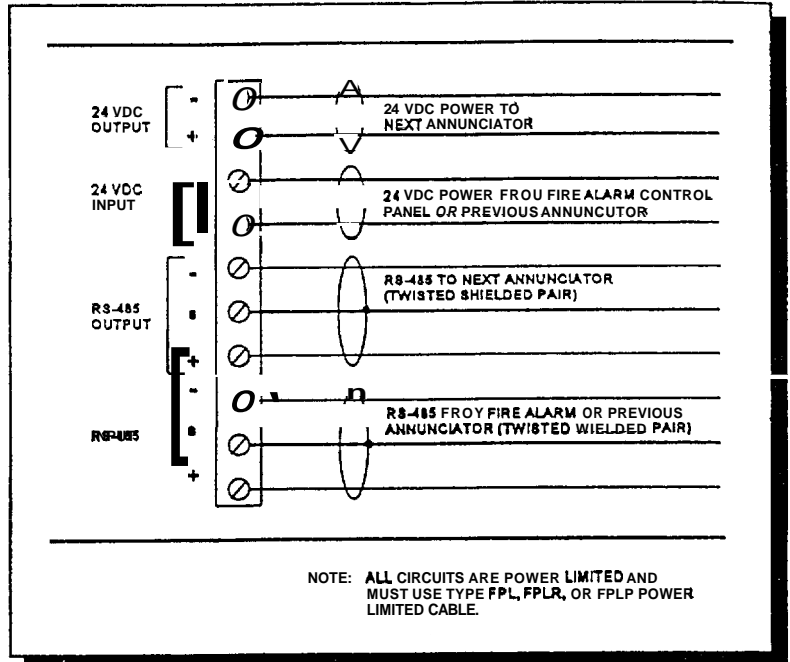
WIRING INSTRUCTION:

The RS-485 Wiring to the RAM-208 Module is recommended to be Twisted Shielded Pair as shown in the diagram. The wire gauge may be;

- 22 AWG up to 2000 ft.
- 20 AWG up to 4000 ft.
- 18 AWG up to 8000 ft.

The RS-485 wiring from the Fire Alarm Control Panel to the Annunciator(s) must be point-to-point from the FA Panel to the first Annunciator, then the next Annunciator, and so on. No star-wiring or T-tapping is allowed. Each RAM-208 Annunciator Module has a **120 ohm End-of-Line Resistor** on its RS-485 Output terminals. This is removed on all except the last wired Module.

The 24 VDC field wiring needs to be of an appropriate gauge for the number of annunciators and the total wiring run length. See the Specifications section "Current Drain for Battery Calculations", and calculate the Maximum current for **all** Annunciators summed together ...



WARNING!!

Accidentally connecting any of the 24 VDC wires to the RS-485 wiring **will result in damage** to the Annunciator and/or to the Fire Alarm Control Panel to which it is connected !!!

Maximum for all Annunciators	MAXIMUM WIRING RUN TO LAST ANNUNCIATOR								MAX. LOOP RESISTANCE
	18AWG		16AWG		14AWG		12AWG		
Amperes	ft	m	ft	m	ft	m	ft	m	Ohms
0.30	470	143	750	229	1200	366	1900	579	6
0.60	235	71	375	114	600	183	850	259	3
0.90	156	47	250	76	400	122	570	174	2
1.20	118	36	185	56	300	91	425	129	1.5
1.50	94	29	150	46	240	73	343	105	1.2
1.70	78	24	125	38	200	61	285	87	1.0

UNDERWRITER'S LABS INC. (UL)
UNITED STATES: 2-WIRE SMOKE DETECTOR CONTROL PANEL COMPATIBILITY

NOTES:

- 1) Whether mixing different models of compatible smoke detectors, or using the same model on the same Circuit, total standby current of all detectors must not exceed 3 mA.
- 2). The below listed Smoke Detectors are compatible with Initiating Circuits having Compatibility Identifier "A".

SMOKE DETECTOR MAKE MODEL / BASE	COMPATIBILITY IDENTIFIER HEAD / BASE	RATED STANDBY CURRENT	SMOKE DETECTOR MAKE MODEL / BASE	COMPATIBILITY IDENTIFIER HEAD / BASE	RATED STANDBY CURRENT
HOCHIKI			2451 / B406B	A - A	0.12 mA
DCD-190/HSC-220R	HD-3/HB-72	0.035mA	2451 / DH400	A - A	0.12 mA
DCD-190/NS6-220	HD-3/HB-3	0.035mA	2451TH / B401	A - A	0.12 mA
DCD-190/NS4-220	HD-3/HB-3	0.035mA	2451TH / B401B	A - A	0.12 mA
DCD-135/HSC-220R	HD-3/HB-3	0.035mA	2451TH / B406B	A - A	0.12 mA
DCD-135/NS6-220	HD-3/HB-3	0.035mA	4451HT / B401	A - A	0.12 mA
DCD-135/NS4-220	HD-3/HB-3	0.035mA	4451HT / B401B	A - A	0.12 mA
SIJ-24/HSC-220R	HD-3/HB-72	0.040mA	4451HT / B406B	A - A	0.12 mA
SIJ-24/NS6-220	HD-3/HB-3	0.040mA	5451 / B401	A - A	0.12 mA
SIJ-24/NS4-220	HD-3/HB-3	0.040mA	5451 / B401B	A - A	0.12 mA
SLR-24/HSC-220R	HD-3/HB-72	0.045mA	5451 / B406B	A - A	0.12 mA
SLR-24/NS6-220	HD-3/HB-3	0.045mA			
SLR-24/NS4-220	HD-3/HB-3	0.045mA	SENTROL - ESL		
SLR-24H/NS6-220	HD-3/HB-3	0.045mA	429C	SIOA - N/A	0.10 mA
SLR-24H/NS4-220	HD-3/HB-3	0.045mA	429CT	SIOA - N/A	0.10 mA
				S11A - N/A	0.10 mA
				S11A - N/A	0.10 mA
				S10A - S00	0.10 mA
				S10A - S00	0.10 mA
SLR-8358-2	HD-6	55uA @ 24VDC	713-5U / 701E, 701U, 702E, 702U	SIOA - S00	0.10 mA
			713-6U / 701E, 701U, 702E, 702U	SIOA - S00	0.10 mA
			721U / 702E, 702U	SIOA - S00	0.10 mA
			721UT / 702E, 702U	SIOA - S00	0.10 mA
SYSTEM SENSOR			722U / 702E, 702U	SIOA - S00	0.10 mA
1100	A - N/A	0.12 mA	731U / 702U, 702U, 702RE, 702RU	S11A - S00	0.10 mA
1151 / B110LP		0.12 mA	732U / 702E, 702U, 702RE, 702RU	S11A - S00	0.10 mA
1151 / B116LP	A - A	0.12 mA			
1400	A - N/A	0.10 mA	DETECTION SYSTEMS INC.		
1451 / B401	A - A	0.12 mA			
1451 / B401B	A - A	0.12 mA	DS250TH	B - N/A	0.10 mA
1451 / B406B	A - A	0.12 mA	DS282	B - N/A	0.10 mA
1451DH / DH400	A - A	0.12 mA	DS282TH	B - N/A	0.10 mA
2100	A - N/A	0.12 mA			
2100T	A - N/A	0.12 mA			
2151 / B110LP	A - A	0.12 mA	MIRCOM		
2151 / B116LP	A - A	0.12 mA	MIR-525U	FDT-1	0.10 mA
2400	A - N/A	0.12 mA	MIR-525TU	FDT-1	0.10 mA
2400TH	A - N/A	0.12 mA			
2451 / B401	A - A	0.12 mA			
2451 / B401B	A - A	0.12 mA	NAPCO		
			FW-2	HD-6	55uA @ 24VDC

Memorandum

To: Bob Gaudreau
From: Mike Nugent/Manager of Inspection Services
Date: 12/08/2004
Re: Building # 7 1039 Riverside St. (331 A001)

I have commenced the **review** of the remainder of the building **plans** and require the following information **from** your **design** team prior to allowing the **next** phase of construction:

- | | |
|--|--|
| <p>✓ 1) FORRSIDE —</p> <p>" —</p> <p>11 —</p>
<p>Drawn Allen
ACT "CONCRETE" 5)</p> <p>6) FORRSIDE</p> <p>7) 12</p>
<p>Kearley Elec 8)</p> <p>✓ 9)</p>
<p>ALLIAD RMC 10)</p> | <p>1) The "Kirby" plans are not stamped. <i>WAS SUBMITTED WITH PACKAGE</i></p> <p>2) Need a cross section of the fire separation assembly w/ UL listing</p> <p>3) Need a Fire glazing detail w/ ASTM testing standard.</p> <p>4) Need elevations to determine if the entrances will need stairs (based on the site plan there is a 2 foot to four foot difference between grade and the FFE. Need structural details of the stairs and or ramps w/ tread, riser, guard and width details. Any exterior stairway must be protected from the accumulation of Ice and Snow.</p> <p>5) Will the Fire Supression system be installed above and below the Office area Ceiling, <i>NO</i></p> <p>6) What will the ceiling be? Need cross section.</p> <p>7) Please provide flame 'spread and smoke development info in the interior finishes in compliance w/ Chapter 8 of the 2003 IBC.</p> <p>8) What type of Fire alarm system, please provide specs.</p> <p>9) Please provide documentation that the point loads associated with the HVAC Units has been accounted for in the Kirby design, and provide stamped installation plans. <i>SUBMITTED WITH APPLICATION</i></p> <p>10) Retaining wall height and specs...Guard may be required, if so guard info.</p> |
|--|--|



Wire Glass Certification

[Search](#) |
 [Dictionary](#) |
 [Home](#)

WIRE GLASS CERTIFICATION

This is to certify that the Polished Wire Glass manufactured by Pilkington, and distributed by Guardian Industries Corp., and its subsidiaries fully complies with **USA Federal** Specification DD-G-451d, Type II, Class I & II, Form 1, quality q8, mesh M1 & M2, polished both faces and ASTM standard specifications for flat glass ASTM C 1036. This glass has also been tested and complies with test standard ANSI Z97.1 of the American National Standards Institute. Mesh opening M2 requires maximum openings in the mesh to not exceed 5/8" between wire intersections measured along a side of the square.

Additionally, the Polished Wire Glass is tested and approved for use as a fire retardant glazing material to forty-five (45) minutes by Warnock Hersey International Inc., reference file no. WHI-495-0693A, and by Underwriters Laboratories Inc., file no. R7273-1 December 7, 1973. Also, it conforms to all specifications of NFPA 80.

If you require any additional information, do not hesitate to contact us at any of the following Commercial Glass Contcns:

Lewistown, Pennsylvania
 717/242-2571
 800/669-5324

Scarborough, Ontario
 416/292-1481

This page was last updated on Monday; March 2, 1998

Post-it* Fax Note	7671	Date	12/9/04	# of pages	2
To	ED BRILL	From	Andy		
Co /Dept		Co.	Sigco		
Phone #		Phone #			
Fax #	782-6014	Fax #			