

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

PERMIT ISSUED		Permit No: 02-0603	Issue Date: JUL 29 2002	CBL: 119 I001001
Location of Construction: 400 Deering Ave		Owner Name: Temple Beth-el	Owner Address: 400 Deering Ave	Phone: 207-774-2649
Business Name: n/a		Contractor Name: Benchmark	Contractor Address: 650 Main St So. Portland	Phone: 2078742963
Lessee/Buyer's Name n/a		Phone: n/a	Permit Type: Additions - Commercial	Zone: R-5

Past Use: Place of Worship- Synagogue	Proposed Use: Synagogue / New classroom wing & platform addition. Renovations to existing kitchen, school and administration.
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Permit Fee: \$9,424.00	Cost of Work: \$1,342,866.00	CEO District: 3
FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: A4 Type: 2c 7/26/02 Signature: [Signature]	
Signature: [Signature]		

Proposed Project Description:
New classroom wing and interior renovations.

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

Permit Taken By: gg
 Date Applied For: 06/03/2002

Application **Zoning Approval**

- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Special Zone or Reviews

Shoreland *N/A*

Wetland

Flood Zone *Zone B*

Subdivision

Site Plan

Maj Minor MM

Date: 6/11/02

Zoning Appeal

Variance

Miscellaneous *institutional expansion to Board*

Conditional Use

Interpretation

Approved

Denied

Date: _____

Historic Preservation

Not in District or Landmark

Does Not Require Review

Requires Review

Approved

Approved w/Conditions

Denied

Date: _____

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 _____

Application ID Number: 2-0603

Delete Save Close

Department: Building

Status: Approved with Conditions

Reviewer: Mike Nugent

Comments: [Empty text box]

Approval Date: 07/26/2002

Given On Date: 06/04/2002

OK to Issue Permit Name: Mike Nugent Date: 07/26/2002 Date 2: [Empty]

Conditions Section: Add New Condition From Add New Condition Delete Condition

A statement of Special Inspections must be submitted, reviewed and approved pursuant to Section 1705. of the Building Code prior to commencement of construction. MJN.

[Large empty text area for additional conditions or notes]

Create Date: 06/06/2002 By: gg Update Date: 07/26/2002 By: mjn

Form # P 04

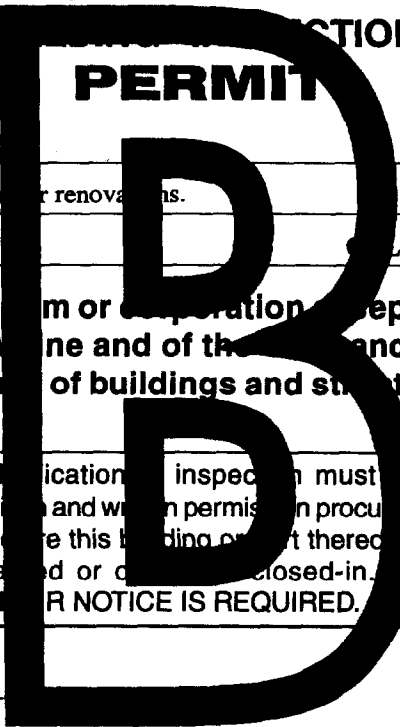
DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

Please Read Application And Notes, If Any, Attached

Permit Number: 020603

PERMIT



This is to certify that Temple Beth-el/Benchmark
has permission to New classroom wing and interior renovations.
AT 400 Deering Ave L 119 I001001

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

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

Notification of inspection must be given and when permission procured before this building or part thereof is laid or closed-in. HEAR NOTICE IS REQUIRED.

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

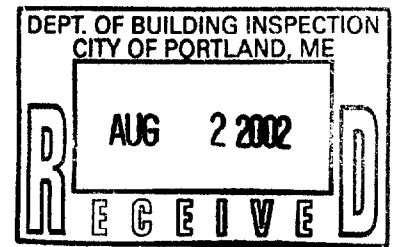
OTHER REQUIRED APPROVALS

Fire Dept. Handwritten Signature
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

Handwritten Signature 2/26/02
Director - Building Inspection Services

PENALTY FOR REMOVING THIS CARD

SEAM



Structural Engineering Association of Maine

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Temple Beth El
LOCATION: Portland, ME
PERMIT APPLICANT: Temple Beth El
APPLICANT'S ADDRESS: 400 Deering Avenue
Portland, ME 04103

STRUCTURAL ENGINEER OF RECORD: Timothy S. Dean, P.E. Pinkham & Greer Engineers
NAME FIRM

ARCHITECT OF RECORD: Stephen J. Blatt, R.A. Stephen Blatt Architects
NAME FIRM

This Statement of Special Inspections is submitted in accordance with Section 1705.0 of the 1999 BOCA National Building Code. It includes a listing of special inspections applicable to this project as well as the name of the Special Inspector, and the names of other agencies intended to be retained for conducting these inspections.

The Special Inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Code Official and to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected the discrepancies shall be brought to the attention of the Code Official and to the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and to the Registered Design Professional of Record monthly, unless more frequent submissions are requested by the Code Official.

Job site safety is solely the responsibility of the Contractor. Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect or install the materials listed.

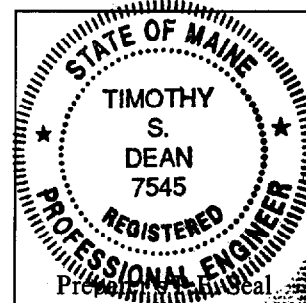
Prepared By:

Timothy S. Dean, P.E.

NAME

SIGNATURE

DATE



Applicant's Authorization:

SIGNATURE

DATE

Building Code Official:

SIGNATURE

DATE

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: TEMPLE BETH EL

PAGE 1 OF 4

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #
1705.3 STEEL CONSTRUCTION	1.00							
Steel Fabrication		In-plant review Part A - Fabrication procedures	N		Fabricator is AISC certified			
		Part B - Procedures implementation Review conformance to Part A	N	SER to determine extent after completion of Part A				
	1.01	Review material certificates of compliance (structural steel & weld filler material)	N	ALL		1,2,OR 3		
		Review connections	N					
		Review welding of seismic-resisting system in Cat. "C" buildings	N					
Steel Erection	1.02	Review welder certification	Y	ALL		1,2,OR 3		
	1.03	Review materials certificates of compliance (Bolts, nuts, washers, & weld filler material)	Y	ALL		1,2,OR 3		
		Review primary steel connections						
	1.04	Moment connections	N					
	1.05	Shear connections	Y	VISUAL, INITIAL SAMPLE 10%		5		
	1.06	Bracing connections	Y	VISUAL, ALL		5		
		Review welded Cat. "C" seismic connections	N					
		Review welded column splices	N					
		Review base metal testing for "t" > 1 1/2"	N					
		Review secondary steel connections						
		Girts	N					
	1.07	Steel deck	Y	VISUAL, INITIAL SAMPLE 25%		5		
	1.08	Lintels	Y	VISUAL, INITIAL SAMPLE 10%		1,2,OR 3		
		Review installation of shear studs	N					
1.09	Review Details / Steel Frame	Y	SAMPLE		1,2,3,OR 5			

All Steel Construction Special Inspections have been completed in accordance with BOCA Section 1705.3

Special Inspector _____

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: TEMPLE BETH EL

PAGE 2 OF 4

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #
1705.3 STEEL CONSTRUCTION (CONTINUED)	1.00							
Steel Joist & Joist Girder Fabrication		In-plant review Part A - Fabrication procedures	N		Unless excepted by 1705.2 review fabrication Q/A procedures per 1705.2			
		Part B - Procedures implementation Review conformance to Part A	N		SER to determine extent after completion of Part A			
	1.10	Review material certificates of compliance (structural steel & weld filler material)	Y	ALL		1,2,OR 3		
		Review connections	N					
Steel Joist & Joist Girder Erection	1.11	Review welder certification	Y	ALL		1,2,OR 3		
	1.12	Review joist bearing connection	Y	SAMPLE (INITIAL SAMPLE 25%) VISUAL		5		
	1.13	Review joist bearing length	Y	SAMPLE (INITIAL SAMPLE 25%) VISUAL		5		
	1.14	Review joist bridging	Y	SAMPLE (INITIAL SAMPLE 25%) VISUAL		5		

All Steel Construction Special Inspections have been completed in accordance with BOCA Section 1705.3

Special Inspector _____

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: TEMPLE BETH EL

PAGE 3 OF 4

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #
1705.4 CONCRETE CONSTRUCTION	2.00							
Concrete Materials	2.01	Review materials (ACI Chapter 3)	Y	ALL		1,2,OR 3		
	2.02	Review mix design (ACI Chapter 4)	Y	ALL		1,2,OR 3		
		Review reinforcing certification & weldability (ASTM A 706) if required	N					
Placing Reinforcement	2.03	Review condition & placement of reinforcing and prestressing steel (ACI 318 7.4-7.7)	Y	SAMPLE		1,2,OR 3		
		Review welding of reinforcing in Cat "C" seismic-resisting systems	N					
Formwork		Review formwork (ACI 318 6.1)	N					
		Review form removal & reshoring (ACI 318 6.2)	N					
Concrete Operations	2.04	Review concrete strength tests (ACI 318 5.6)	Y	ALL		1,2,OR 3 & 4		
		Review mix proportions and technique (ACI 318 5.2, 5.3, 5.4, & 5.8)	N					
	2.05	Review concrete placement (ACI 318 5.9 & 5.10)	Y	SAMPLE		1,2,OR 3		
	2.06	Review curing technique & temperature (ACI 318 5.11, 5.12, & 5.13)	Y	SAMPLE		1,2,OR 3		
Prestressing Operations		Review application of prestressing force (ACI 318 18.18)	N					
		Review grouting of bonded prestressing tendons in Cat. "C" seismic-resisting systems	N					
Precast Manufacturing		In-plant review						
		Part A - Fabrication procedures	N					
		Part B- Procedures implementation						
Erection of Precast Concrete		Review erection of precast units	N					
		Review key reinforcement	N					
		Review key grouting	N					
		Review concrete topping	N					
		Review connections	N					

All Steel Construction Special Inspections have been completed in accordance with BOCA Section 1705.3

Special Inspector _____

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: TEMPLE BETH EL

PAGE 4 OF 4

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #
1705.5 MASONRY CONSTRUCTION	3.00							
Masonry Materials	3.01	Review materials certification Masonry units	N					
	3.02	Review grout materials & mix design	N					
	3.03	Review mortar materials & mix design	N					
		Review strength determination Unit strength method. Review unit strengths & grout, mortar mixes	N					
		Review strength method. Review pre- construction test results. Field tests during construction.	N					
	3.04	Grout testing Determine compressive	N					
		Mortar testing Field test compressive strength ASTMC780 (Reqd. only if property reqs of ASTM C270 are used)	N					
General Masonry work	3.05	Review mortar mix proportions & mixing (ACI 530.1; 2.3.2.5)	N					
	3.06	Review grout mix proportions & mixing (ACI 530.1; 4.2.2)	N					
	3.07	Review general installation of mortar, grout, masonry units.	N					
	3.08	Review installation of horiz., vert., & joint reinforcing (incl. Location, sizes, splices, & positioning devices) (ACI 530, Ch.8)	N					
	3.09	Review hot/cold weather procedures (ACI 530.1; 2.3.2.2, 2.3.2.3)	N					
		Review installation of anchorage devices (ACI 530-4.2.5.14)	N					
	3.1	Review installation of lintels	N					
	Review welding of reinf., grouting, consolidation and reconsolidation for seismic Cat. "C" buildings							

All Steel Construction Special Inspections have been completed in accordance with BOCA Section 1705.3

Special Inspector _____

SEAM

Structural Engineering Association of Maine

LIST OF AGENTS

PROJECT: Temple Beth El, Portland, Maine

STRUCTURAL ENGINEER OF RECORD: Timothy S. Dean, P.E. Pinkham & Greer
NAME FIRM

170 Us. Route One, Falmouth, ME 04105
ADDRESS

ARCHITECT OF RECORD: Stephen J. Blatt, R.A. Stephen Blatt Architects
NAME FIRM

10 Danforth Street, Portland, ME 04101
ADDRESS

Following is the List of Agents selected for performance of Special Inspections for this project.

	Name	Firm
1. Special Inspector	Timothy S. Dean, P.E.	Pinkham & Greer
2. Inspector	Ken I. Marsh, E.I.T.	Pinkham & Greer
3. Inspector	Jay A. Moran, P.E.	Pinkham & Greer
4. Testing Laboratory	S.W. Cole Engineering, 555 Eastern Ave, Augusta, ME 04330 (207)626-0600	
5. Testing Laboratory	Quality Assurance Laboratories, 80 Pleasant Ave, S. Portland, ME 04106 (207)799-8711/799-7251	

Applicant: Temple Beth El
Address: 400 Deerling Ave

Date: 6/11/02
C-B-L: 119-I-001

CHECK-LIST AGAINST ZONING ORDINANCE

Date - 6/11/02 #02-0603
Zone Location - R-5

Interior or corner lot -

Proposed Use/Work - New Addition for Phase I
Levey Community Day School

Sewage Disposal - City

Lot Street Frontage - 50' min - 50' + shown

Front Yard - 20' Setback req - 20' + shown

Rear Yard - 20' req - 20' + shown

Side Yard - side on side st - 15' req 15' shown &

Projections -

Width of Lot - 60' - 60' + shown

Height - 35' MAX - 21' scaled

Lot Area -

1.69 Acres or 73,616 sq ft

Lot Coverage/ Impervious Surface - 40% MAX - 29% shown

Area per Family - N/A

Off-street Parking - joint use approval by Planning BD
conditional use

Loading Bays - 14 - 309 requires parking for only the additional seating on phase II new off street on phase II shown

Site Plan - yes

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - Panel 13 Zone C

Arrival / Dismissal Procedure – LEVEY COMMUNITY DAY SCHOOL

The Levey Community Day School, in conjunction with Temple Beth El, has developed an Arrival / Dismissal Procedure to assist the parents and staff in creating a speedy, organized and safe policy of dropping off and picking up students at school. There are currently 40 student enrolled in school, and the estimated number of vehicle drop-off/pick-up is 30.

School hours of are as follows:

Monday through Thursday: 8:10 AM to 3:00 PM

Friday: 8:10 AM to 2:30 PM

The following policy will be implemented into the Family Handbook routine.

Staff Supervision

Principal

Two teachers on rotating duty, Arrival

Two teachers on rotating duty, Dismissal

Arrival Procedure

1. Staff members are required to arrive to work ½ hour before the beginning of school. Two teachers and the Principal will arrive with sufficient time to meet the students as they arrive to school.
2. Parents arriving by vehicle will drop-off their child in the semi-circular driveway at the main entrance. Two staff members will meet the students and assist them in their transition from home to school. Parents are discouraged to meet with staff members during this time because the staff members are officially on duty to maintain a secure environment for the student. If the parent has concerns then they must make an appointment with the staff member for a future time.
3. The students will be required to stay in the informal play area at the main entrance of the school, which will be monitored by at least one staff member, until they line up to be admitted inside to their classrooms. The informal play area is easy to monitor because it is surrounded on three sides by building.
4. During inclement weather the students will stay in the main corridor of the school instead of the play area, which will be monitored by at least one staff member, until they line up to be admitted inside to their classrooms.
5. Once the students are inside, any student arriving late to school must be brought in by the parent and sign in at the school office.

Dismissal Procedure

1. Staff members are required to stay at work until ½ hour following the dismissal of students. Two teachers and the Principal will have sufficient time to dismiss the students from school.
2. The students will be required to line up in the informal play area at the main entrance of the school, which will be monitored by at least one staff member. The informal play area is easy to monitor because it is surrounded on three sides by building.
3. Parents arriving by vehicle will pick-up their child in the semi-circular driveway at the main entrance. Students will only be released from the play area when their parents arrive and their name is called. Two staff members will assist the students transitioning from school to home. Parents are discouraged to meet with staff members during this time because the staff members are officially on duty to maintain a secure environment for the student. If the parent has concerns then they must make an appointment with the staff member for a future time.
4. During inclement weather the students will stay in the main corridor of the school instead of the play area, which will be monitored by at least one staff member, until their name is called.

Arrival / Dismissal Procedure – TBE HEBREW SCHOOL

The TBE Hebrew School, in conjunction with Temple Beth El, has developed an Arrival / Dismissal Procedure to assist the parents and staff in creating a speedy, organized and safe policy of dropping off and picking up students at school. There are currently 120 students enrolled in grades K through 6, and the estimated number of vehicle drop-off/pick-up is 70.

School hours of are as follows:

Wednesday: 3:30 PM to 5:30 PM

Sunday: 9:00 AM to 12:00 PM

The following policy will be implemented into the Handbook for Parents Teachers and Students and become a daily routine.

Staff Supervision

Education Director

Two staff members and one Teachers' Aide on rotating duty, Arrival

Two staff members and one Teacher's Aide on rotating duty, Dismissal

Arrival Procedure

1. Staff members are required to arrive to work ½ hour before the beginning of school. Two staff members, the teacher's aide and the Principal will arrive with sufficient time to meet the students as they arrive to school.
2. Parents arriving by vehicle dropping off children between the grades of K through 3 will be required to find a legal parking space and bring their child into the school building where they will meet their instructor.
3. Parents arriving by vehicle dropping off children between the grades of 4 through 6 will drop-off their child in the semi-circular driveway at the main entrance or along the north side of Wadsworth Street. Two staff members will meet the students. The students will go directly to the main entrance of the school.
4. Once the students are inside, any student arriving late to school must be brought in by the parent.

Dismissal Procedure

1. Staff members are required to stay at work the dismissal of their students. Two teachers, the teacher's aide and the Principal will have sufficient time to dismiss the students from school.
2. Parents arriving by vehicle picking up their child between the grades of K through 3 will be required to find a legal parking space and come into the school building where they will meet the teacher to pick up their child.
3. Parents arriving by vehicle picking up their child between the grades of 4 through 6 will be allowed to park in the semi-circular driveway at the main entrance or along the north side of Wadsworth Street. Two staff members and the teacher's aide will assist the students to reach their parent's vehicles in safety.

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: 400 Deering Avenue		
Total Square Footage of Proposed Structure Proposed 6,452 s.f. + 15,200 = 21,652	Square Footage of Lot 1.69 Acres (73,616 s.f.)	
Tax Assessor's Chart, Block & Lot Chart# 119 Block# I Lot# 1	Owner: Temple Beth El 400 Deering Avenue Portland, ME	Telephone: (207)774-2649
Lessee/Buyer's Name (If Applicable) N/A	Applicant name, address & telephone: Stephen Blatt Architects 10 Danforth Street Portland, ME 04101	Cost Of Work: \$1,342,866.00 Fee: \$ 10,424.00
Current use: <u>Assembly (Place of Worship - Synagogue)</u>		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: <u>Same</u>		
Project description: <u>New Classroom wing and platform addition. Renovations to existing kitchen, school and administration</u>		
Contractor's name, address & telephone: _____		
Who should we contact when the permit is ready: <u>Mark Woodward, Benchmark</u>		
Mailing address: 650 Main Street South Portland, ME 04106		
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)874-2963		

over charged
\$1,000.00 GG
should be
9,424.00
Tabled over
Accessibility Cert.
to sign
stamp

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: 6.3.02
-------------------------	---------------------

**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**



State of Maine
Department of Public Safety
Construction Permit



Reviewed
for Barrier
Free

12428

Sprinkled
Sprinkler Supervised

TEMPLE BETH EL

Located at: 400 DEERING AVENUE

PORTLAND

Occupancy/Use: ASSEMBLY CLASS B

Permission is hereby given to:

TEMPLE BETH EL

400 DEERING AVENUE
PORTLAND, ME 04103

to construct or alter the afore referenced building according to the plans hitherto filed with the Commisioner and now approved.
no departure from application form/plans shall be madewithout prior approval in writing. This permit is issued under the provisions
of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.
Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or
other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit will expire at midnight on the 01 rd of Novemb 2002

Dated the 01 th day of May A.D. 2002

Commissioner

Copy-3 Code Enforcement Officer

Comments:

Code Enforcement Officer
PORTLAND, ME



State of Maine
Department of Public Safety
Construction Permit



Reviewed
for Barrier
Free

12428

Sprinkled
Sprinkler Supervised

TEMPLE BETH EL PHASE I
Located at: 400 DEERING AVENUE
PORTLAND
Occupancy/Use: ASSEMBLY CLASS B

Permission is hereby given to:

TEMPLE BETH EL

400 DEERING AVENUE
PORTLAND, ME 04103

to construct or alter the afore referenced building according to the plans hitherto filed with the Commissioner and now approved.
no departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provisions
of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.

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This permit will expire at midnight on the 01 rd of Novemb 2002

Dated the 01 th day of May A.D. 2002

Commissioner

Copy-3 Code Enforcement Officer

Comments:

Code Enforcement Officer
PORTLAND, ME

⋮

389 Congress St. Rm 315
Portland, ME 04101
Phone: (207)874-8700
Fax: (207)874-8716

facsimile transmittal

To: David Matero **From:** Mike Nugent

Fax: 761-2105 **Date:** July 24, 2002

Phone: 761-5911 **Pages:** 1

Re: Temple Bethel/Special Inspections **CC:**

Urgent For Review Please Comment Please Reply Please Recycle

• • • • • • • • •

Notes:

My apologies for not being more prompt with my review of this project. Thanks to the time you spent meeting with us in advance, The review should go relatively smoothly. Attached is a copy of section 1705, Special Inspections, please review the section and provide a statement of Special Inspections that complies with this section for review. I'll continue my review.

Thanks!

Mike Nugent



⋮

1703.2.1 Research reports: Supporting data, where necessary to assist in the approval of all materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.

1703.3 Evaluation and follow-up inspection services: Prior to the approval of a closed prefabricated assembly, the permit applicant shall submit an evaluation report of each prefabricated assembly. The report shall indicate the complete details of the assembly, including a description of the assembly and the assembly's components, the basis upon which the assembly is being evaluated, test results and similar information, and other data as necessary for the code official to determine conformance to this code.

1703.3.1 Evaluation service: The code official shall review evaluation reports from approved sources for adequacy and conformance to the code.

1703.3.2 Follow-up inspection: The owner shall provide for *special inspections of fabricated items* in accordance with Section 1705.2.

1703.3.3 Test and inspection records: Copies of all necessary test and inspection records shall be filed with the code official.

1703.4 Identification: All required product identification shall be legible and shall be applied to the product or product packaging, as applicable, in a manner that will allow product verification at the time of a field inspection conducted by the code official or special inspector, as applicable, prior to the issuance of a certificate of occupancy by the code official.

For products where the required identification is on the product packaging, the part of the packaging containing the product identification shall be kept at the building site where it can be verified at the time of field inspection. For products where the required identification is concealed from view after the product is installed, the code official shall be notified before the product identification is concealed and the product identification shall not be concealed before approval

SECTION 1704.0 APPROVALS

1704.1 Written approval: Any material, appliance, equipment, system or method of construction meeting the requirements of this code shall be approved in *writing* within a reasonable time after satisfactory completion of all the required tests and submission of required test reports.

1704.2 Approved record: For any material, appliance, equipment, system or method of construction that has been approved, a record of such approval, including all of the conditions and limitations of the approval, shall be kept on file in the code official's office and shall be open to public inspection at all appropriate times.

1704.3 Labeling: Products and materials required to be *labeled* shall be *labeled* in accordance with the procedures set forth in Sections 1704.3.1 through 1704.3.3.

1704.3.1 Testing: An *approved agency* shall test a representative sample of the product or material being *labeled* to the relevant standard or standards. The *approved agency* shall maintain a record of all of the tests performed. The record

shall provide sufficient detail to verify compliance with the test standard.

1704.3.2 Inspection and identification: The *approved agency* shall periodically perform an inspection, which shall be in-plant if necessary, of the product or material that is to be *labeled*. The inspection shall verify that the *labeled* product or material is representative of the product or material tested.

1704.3.2.1 Independent: The *agency* to be approved shall be objective and competent. The *agency* shall also disclose all possible conflicts of interest so that objectivity can be confirmed.

1704.3.2.2 Equipment: An *approved agency* shall have adequate equipment to perform all required tests. The equipment shall be periodically calibrated.

1704.3.2.3 Personnel: An *approved agency* shall employ experienced personnel educated in conducting, supervising and evaluating tests.

1704.3.3 Label information: The *label* shall contain the manufacturer's or distributor's identification, model number, serial number, or definitive information describing the product or material's performance characteristics and *approved agency's* identification.

1704.4 Heretofore-approved materials: The use of any material already *fabricated* or of any construction already erected, which conformed to requirements or approvals heretofore in effect, shall be permitted to continue, if not detrimental to life, health or safety of the public.

SECTION 1705.0 SPECIAL INSPECTIONS

1705.1 General: The permit applicant shall provide *special inspections* where application is made for construction as described in this section. The special inspectors shall be provided by the permit applicant and shall be qualified and approved for the inspection of the work described herein.

Exceptions

1. *Special inspections* are not required for work of a minor nature or where warranted by conditions in the jurisdiction.
2. *Special inspections* are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. *Special inspections* are not required for occupancies in Use Group R-3 and occupancies in Use Group U that are accessory to a residential occupancy including, but not limited to, those listed in Table 312.1.

1705.1.1 Building permit requirement: The permit applicant shall submit a statement of *special inspections* prepared by the registered design professional in responsible charge in accordance with Section 114.2.1 as a condition for permit issuance. This statement shall include a complete list of materials and work requiring *special inspection* by this section, the *inspections* to be performed and a list of the

be tested by ultrasonic testing or other approved methods at a percentage rate established by the *registered design professional* responsible for the structural design. All partial penetration column splice welds designed for axial or flexural tension from seismic forces shall be tested.

1705.3.3.2.3 Base metal testing: Base metal having a thickness more than 1½ inches (38 mm) and subject to through-thickness weld shrinkage strains shall be ultrasonically tested for discontinuities behind and adjacent to the welds after joint welding. Any material discontinuities shall be evaluated based on the criteria established in the *construction documents* by the *registered design professional* responsible for the structural design.

1705.3.3.3 Details: The special inspector shall perform an *inspection* of the steel frame to verify compliance with the details shown on the approved *construction documents*, such as bracing, stiffening, member locations and proper application of joint details at each connection.

1705.4 Concrete construction: The *special inspections* for concrete elements of buildings and structures and concreting operations shall be as required by Sections 1705.4.1 through 1705.4.7.

Exception: *Special inspections* shall not be required for:

1. Concrete footings of buildings three stories or less in height which are fully supported on earth or rock.
2. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (0.11 kg/mm²).
3. Plain concrete foundation walls constructed in accordance with Table 1812.3.2.
4. Concrete patios, driveways and sidewalks, on grade.

1705.4.1 Materials: In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapter 3 of ACI 318 listed in Chapter 35, the code official shall require testing of materials in accordance with the appropriate standards and criteria for the material in Chapter 3 of ACI 318 listed in Chapter 35. Weldability of reinforcement, except that which conforms to ASTM A706 listed in Chapter 35, shall be determined in accordance with the requirements of Section 1906.5.2.

1705.4.2 Installation of reinforcing and prestressing steel: The location and installation details of reinforcing and prestressing steel shall be *inspected* for compliance with the approved *construction documents* and ACI 318 (such as Sections 7.4, 7.5, 7.6 and 7.7) listed in Chapter 35. Welding of reinforcing of the structural seismic-resisting system shall be inspected for buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.4.3 Formwork: Forms for concrete, if used, shall be *inspected* for compliance with Section 6.1 of ACI 318 listed in Chapter 35, and with any additional design requirements indicated on the approved *construction documents*. *Inspection* of form removal and reshoring shall be conducted to

verify compliance with Section 6.2 of ACI 318 listed in Chapter 35.

1705.4.4 Concreting operations: During placing and curing of concrete, the *special inspections* listed in Table 1705.4.4 shall be performed.

**Table 1705.4.4
REQUIRED INSPECTIONS DURING CONCRETING**

Required inspection	Reference ^a for criteria
1. Evaluation of concrete strength, except as exempted by Section 1908.3.1(3) of this code.	ACI 318 Section 5.6
2. Inspection for use of proper mix proportions and proper mix techniques.	ACI 318 Chapter 4, Sections 5.2, 5.3, 5.4 and 5.8
3. Inspection during concrete placement, for proper application techniques.	ACI 318 Sections 5.9 and 5.10
4. Inspection for maintenance of specified curing temperatures and techniques.	ACI 318 Sections 5.11, 5.12 and 5.13

Note a. ACI 318 listed in Chapter 35.

1705.4.5 Inspection during prestressing: *Inspection* during the application of prestressing forces shall be performed to determine compliance with Section 18.18 of ACI 318 listed in Chapter 35.

1705.4.5.1 Inspection during grouting: In buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7, inspection during the grouting of bonded prestressing tendons in the structural seismic-resisting system shall be performed.

1705.4.6 Manufacture of precast concrete: The manufacture of precast concrete, as required by Section 1705.2, shall be subject to a quality control program administered by an *approved agency*.

1705.4.7 Erection of precast concrete: Erection of precast concrete shall be *inspected* for compliance with the approved plans and erection drawings.

1705.5 Masonry construction: The *special inspections* listed in Table 1705.5 shall be required for masonry construction where masonry is designed in accordance with ACI 530/ASCE 5/TMS 402 listed in Chapter 35.

1705.6 Wood construction: *Special inspections* of the fabrication process of wood structural elements and assemblies shall be in accordance with Section 1705.2. *Special inspection* is required for nailing, bolting, structural gluing or other fastening of the structural seismic-resisting system of buildings assigned to Seismic Performance Category C, D or E, in accordance with Section 1610.1.7.

1705.7 Prepared fill: The *special inspections* for prepared fill shall be as required by Sections 1705.7.1 through 1705.7.3. The approved report, required by Section 1804.1, shall be used to determine compliance.

1705.7.1 Site preparation: Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the approved report.

1705.12.3.1 Floor, roof and wall assemblies: The thickness of the sprayed fire-resistive material applied to the underside of floor and roof assemblies and to wall assemblies shall be determined by taking the average of four measurements in each 144-square-inch (0.093 m²) sample area, having a minimum width of 6 inches (152 mm), for each 1,000 square feet (93 m²) or part thereof of the sprayed area in each story.

1705.12.3.2 Structural framing members: The thickness of the sprayed fire-resistive material applied to structural framing members shall be determined by taking nine measurements at a single cross section for beams and girders, seven measurements at a single cross section for joists and trusses, and 12 measurements at a single cross section for columns. Thickness measurements shall be performed on 25 percent of each type of structural framing members in each story.

1705.12.4 Density: The density of the cured sprayed fire-resistive material applied to structure elements shall not be less than the density specified in the approved fire-resistance design or 15 pounds per cubic foot (240 kg/m³), whichever is greater. Density of the sprayed fire-resistive material shall be determined by an approved method using the sampling rates specified in Sections 1705.12.3.1 and 1705.12.3.2.

1705.12.5 Bond strength: The cohesive/adhesive bond strength of the cured sprayed fire-resistive material applied to structure elements shall not be less than the cohesive/adhesive bond strength specified in the approved fire-resistance design or 150 pounds per square foot (732 kg/m²), whichever is greater. The cohesive/adhesive bond strength shall be determined by an approved method using the samples of the sprayed fire-resistive material selected in accordance with Sections 1705.12.5.1 and 1705.12.5.2.

1705.12.5.1 Floor, roof and wall assemblies: The samples used for determining the cohesive/adhesive bond strength of the sprayed fire-resistive materials shall be taken from each floor, roof and wall assembly at the rate of one sample for every 10,000 square feet (929 m²) or part thereof of the sprayed area in each story.

1705.12.5.2 Structural framing members: The samples used for determining the cohesive/adhesive bond strength of the sprayed fire-resistive materials shall be taken from beams, girders, joists, trusses, and columns at the rate of one sample for each type of structural framing member for each 10,000 square feet (929 m²) of floor area of part thereof in each story.

1705.13 Exterior insulation and finish systems (EIFS): Special inspections shall be based upon the information provided in the manufacturer's installation instructions and the construction documents. The manufacturer's installation instructions shall include criteria for: the conditions of the substrate; foam plastic material and application; mesh application; base coat application including thickness, ambient conditions and cure; sealant requirements; finish coat application; details for joints and flashing at windows, doors, joints in the system, eaves, corners, and penetrations; and any other criteria necessary for the proper installation of the EIFS.

1705.14 Special cases: *Special inspections* shall be required for proposed work which is, in the opinion of the code official, unusual in its nature, such as:

1. Construction of materials and systems which are alternatives to materials and systems prescribed by this code.
2. Unusual design applications of materials described in this code.
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.

SECTION 1706.0 DESIGN STRENGTHS OF MATERIALS

1706.1 Conformance to standards: The design strengths and permissible stresses of any structural material that is identified by a manufacturer's designation as to manufacture and grade by mill tests, or the strength and stress grade is otherwise confirmed to the satisfaction of the code official, shall conform to the specifications and methods of design of accepted engineering practice or the *approved rules* in the absence of applicable standards.

1706.2 New materials: For materials which are not specifically provided for in this code, the design strengths and permissible stresses shall be established by tests as provided for in Sections 1708.0 and 1709.0.

SECTION 1707.0 ALTERNATIVE TEST PROCEDURE

1707.1 General: In the absence of *approved rules* or other approved standards, the code official shall make, or cause to be made, the necessary tests and investigations; or the code official shall accept duly authenticated reports from *approved agencies* in respect to the quality and manner of use of new materials or assemblies as provided for in Section 106.0. The cost of all tests and other investigations required under the provisions of this code shall be borne by the permit applicant.

SECTION 1708.0 TEST SAFE LOAD

1708.1 Where required: Where proposed construction is not capable of being designed by approved engineering analysis, or where proposed construction design method does not comply with the applicable material design standard listed in Chapter 35, the system of construction or the structural unit and the connections shall be subjected to the tests prescribed in Section 1710.0. The code official shall accept certified reports of such tests conducted by an *approved testing agency*, provided that such tests meet the requirements of this code and approved procedures.

SECTION 1709.0 IN-SITU LOAD TESTS

1709.1 General: Whenever there is a reasonable doubt as to the stability or loadbearing capacity of a completed building, structure or portion thereof for the expected loads, an engineering assessment shall be required. The engineering assessment shall involve either a structural analysis or an in-situ load test, or both. The structural analysis shall be based upon actual material properties and other as-built conditions which affect stability or loadbearing capacity, and shall be conducted in accordance with the applicable design standard listed in Chapter 35. If the

Stephen Blatt
Architects

FAX TRANSMITTAL

FAXED
6/11/02

TO: Gayle
City of Portland
Inspector of Buildings
389 Congress St.
Portland, ME 04101

FAX #: 874-8716

FROM: David Matero

DATE: June 11, 2002

PROJECT: Temple Beth El

RE: Building Inspection Application

PAGES: 5 (including cover)

Special Comments or Instructions:

Gayle,

As requested, the following enclosures are signed and sealed applications for a building permit for Temple Beth El.

Originals shall follow in the mail.

Please feel free to contact me at 761-5911 if you have any questions.

Sincerely,

David Matero

10 Danforth Street

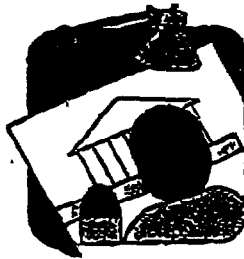
Post Office Box
583 DTS

Portland, Maine
04112-0583

Voice:
207.761.5911

Fax:
207.761.2105

If you do not receive all pages please contact us A.S.A.P. (207) 761-5911



CITY OF PORTLAND MAINE

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

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

FROM DESIGNER: Stephen Blatt Architects
10 Danforth St. Portland, ME 04102

DATE: 6/10/2002

Job Name: Temple Beth-El Phase 1

Address of Construction: 400 Deering Ave. Portland, ME

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 1999 Use Group Classification(s) A-4

Type of Construction 2C Bldg. Height 20'00" Max Bldg. Sq. Footage 21,652

Seismic Zone B Group Class 2

Roof Snow Load Per Sq. Ft. 39 Dead Load Per Sq. Ft. 20

Basic Wind Speed (mph) 85 Effective Velocity Pressure Per Sq. Ft. 20

Floor Live Load Per Sq. Ft. Lobby/Corridor = 100, Platform = 100, Fixed Assembly = 60
Office = 50, Classroom = 40

Structure has full sprinkler system? Yes X No Alarm System? Yes X No
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

Is structure being considered unlimited area building? Yes No X

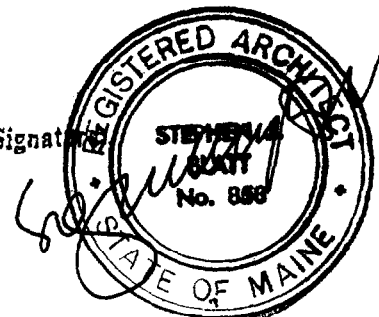
If mixed use, what subsection of 313 is being considered N/A

List Occupant loading for each room or space, designed into this Project.

See Occupant Loading Attachment

(Designers Stamp & Signature)

PSH 6/07/2K



Occupant Loading

New Room	Occupant Load
Classroom #1A	23
Classroom #1B	20
Classroom #1 (with curtain open)	45
Classroom #2	27
Classroom #3	33
Classroom #4A	38
Classroom #4B	38
Classroom #4 (with curtain open)	212
Art Room (Multi-use)	38
Staff Lounge	6
Offices	1 Occupant per office
Conference	6
Platform	86

Existing Room	Occupant Load
Sanctuary	260 fixed seats
Social Hall	384
Platform	40
Offices	1 Occupant for office

10 Danforth Street

Post Office Box
583

Portland, Maine
04112-0583

Voice:
207.761.5911

Fax:
207.761.2105

email:
sba@sbarchitects.com



**CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE**

Designer: Stephen Blatt

Address of Project 400 Deering Ave. Portland, ME


Nature of Project New classroom wing and platform addition.

Renovations to existing kitchen, school, and administration.

Date 6/10/2002

The technical submissions covering the proposed construction work as described above have been have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

(SEAL)

Signature 

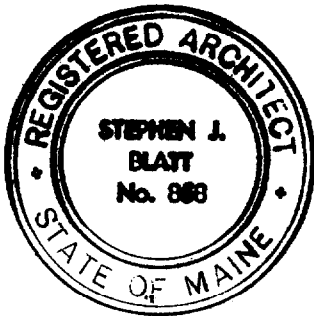
Title President

Firm Stephen Blatt Architects

Address 10 Danforth St.

Portland, ME 04101

Telephone (207) 761-5911





**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

FROM: Stephen Blatt Architects

RE: Certificate of Design

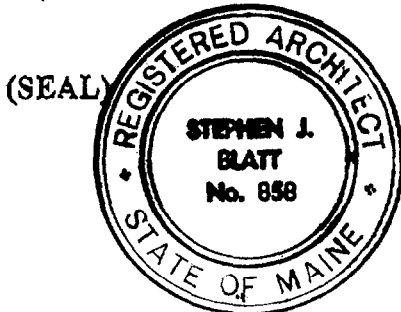
DATE: June 6, 2002

These plans and/or specifications covering construction work on:

Temple Beth-El - Phase 1

Located at 400 Deering Ave. Portland, ME

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.



Signature *Stephen Blatt*

Title President

Firm Stephen Blatt Architects

Address 10 Danforth 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.

PSH 6/20/02



FAX TRANSMITTAL

TO: Mike Nugent
FAX #: 874-8716
FROM: David Matero
DATE: July 10, 2002
PROJECT: Temple Beth El
RE: Construction Permit
PAGES: 2 (including cover)

Special Comments or Instructions:

Mike,

Per our discussion, enclosed is a construction permit from the State Fire Marshal's office.

Please feel free to contact me at 761-5911 if you have any questions.

Thank you.

Sincerely,

David Matero

10 Dunforth Street

Post Office Box
583 DTS

Portland, Maine
04112-0583

Voice:
207.761.5911

Fax:
207.761.2105

Email:
sba@sbarchitects.com

If you do not receive all pages please contact us A.S.A.P. (207) 761-5911



State of Maine
Department of Public Safety
Construction Permit



**Reviewed
for Barrier
Free**

12428

**Sprinkled
Sprinkler Supervised**

TEMPLE BETH EL PHASE I
Located at: 400 DEERING AVENUE
PORTLAND
Occupancy/Use: ASSEMBLY CLASS B

Permission is hereby given to:

TEMPLE BETH EL

400 DEERING AVENUE
PORTLAND, ME 04103

to construct or alter the afore referenced building according to the plans hitherto filed with the Commissioner and now approved, no departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provisions of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.

Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit will expire at midnight on the 01st of Novemb 2002

Dated the 01th day of May A.D. 2002

Commissioner

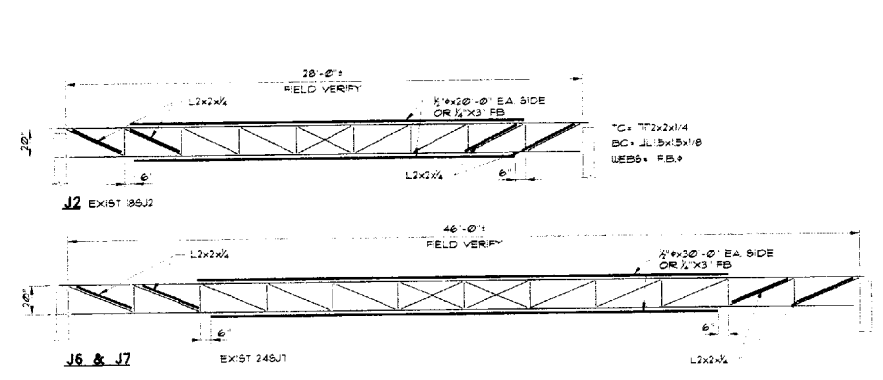
Copy-2 Architect

Comments:

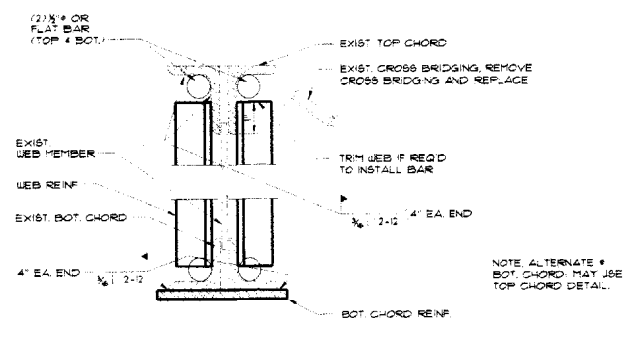
STEPHEN BLATT ARCHITECTS

10 DANFORTH STREET
PORTLAND, ME 04101

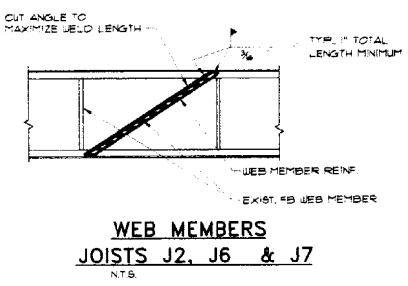
3/10/2002



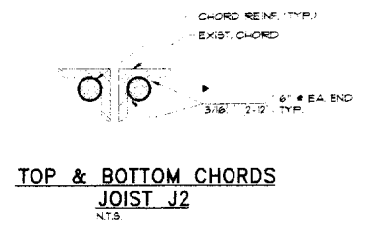
REINFORCING FOR EXISTING ROOF JOISTS - CLASSROOM WING
1/4"=1'-0"



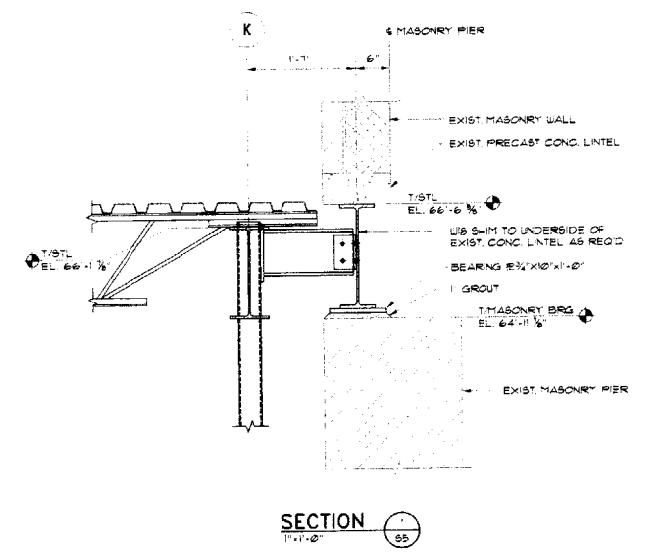
TOP & BOTTOM CHORDS
JOIST J2, J6 & J7
NTS



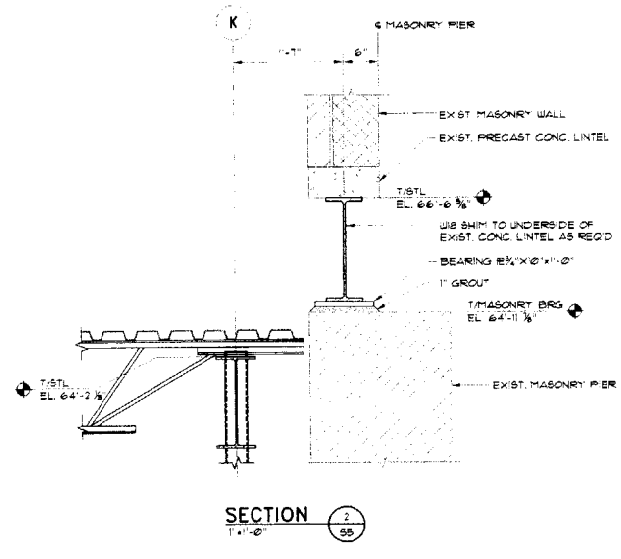
WEB MEMBERS
JOISTS J2, J6 & J7
NTS



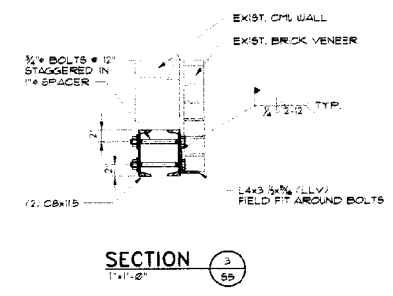
TOP & BOTTOM CHORDS
JOIST J2
NTS



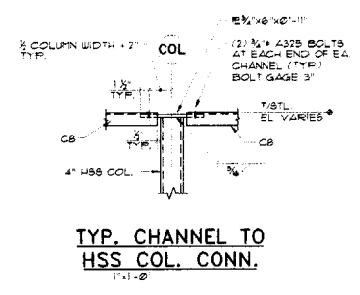
SECTION 1
1/4"=1'-0"



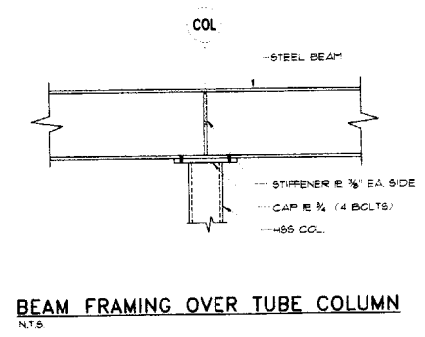
SECTION 2
1/4"=1'-0"



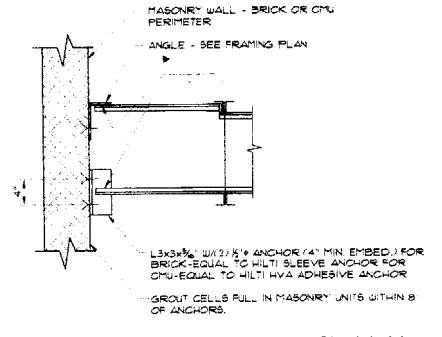
SECTION 3
1/4"=1'-0"



TYP. CHANNEL TO HSS COL. CONN.
1/4"=1'-0"



BEAM FRAMING OVER TUBE COLUMN
NTS



TYP. JOIST BRIDGING TO MASONRY WALL
NTS

Revisions

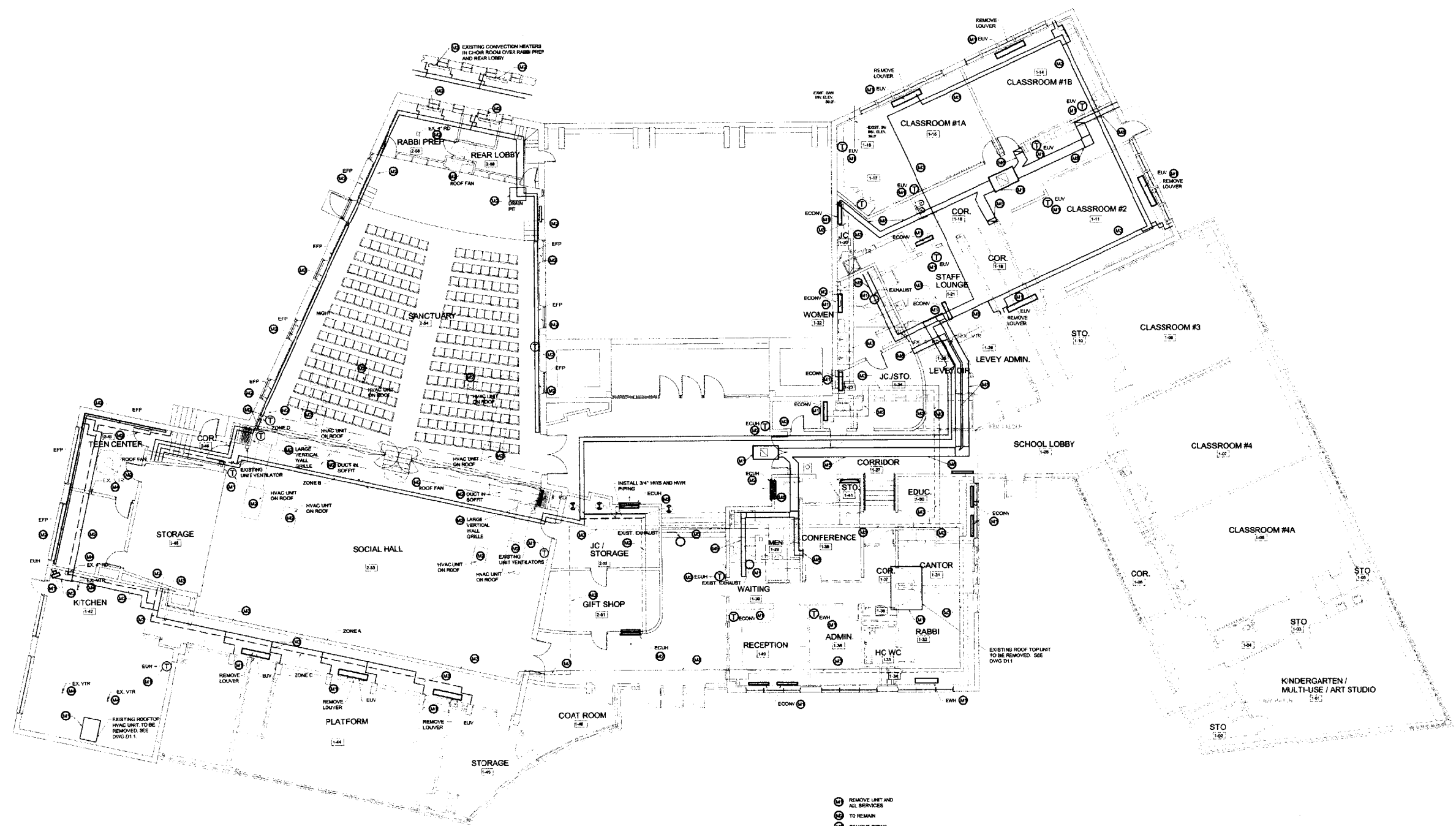
10 Darborn Street
Post Office Box
583 DTS
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04102-0583
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esd@scarlethack.com



- Consultants
- Civil Engineer: DeLuca Hoffman Associates
 - Structural Engineer: Carl Associates
 - Structural Engineer: Pinkham & Green
 - Mechanical Engineer: Whitney Engineering
 - Electrical Engineer: Thomas Engineering
 - Acoustical Engineer: T.M. Consulting
 - Lighting Designer: J & M Lighting Design, Inc.
 - Acoustical Consultant: Cavanaugh Todd

Job No.: 0611
Date: 06-15-02
Scale: 1/8" = 1'-0"
Drawn by: MJB
Checked by: TSD

Drawing Title:
STRUCTURAL STEEL
SECTIONS & DETAILS



- 1 REMOVE UNIT AND ALL SERVICES
- 2 TO REMAIN
- 3 REMOVE PIPING
- 4 SEE DWG D1.1 FOR KITCHEN PLUMBING DEMOLITION PLAN
- 5 REMOVE DUCTWORK
- 6 EXISTING FIN PIPE
- 7 EXISTING UNIT VENTILATOR
- 8 EXISTING CHIMNEY UNIT HEATER
- 9 EXISTING CONVECTION UNIT HEATER
- 10 EXISTING WALL HEATER



10 Westbrook Street
Portland, Maine 04102
Phone: 207.791.5611
Fax: 207.712.1105
Email: info@delucahoffman.com

Richard P. Pinkham

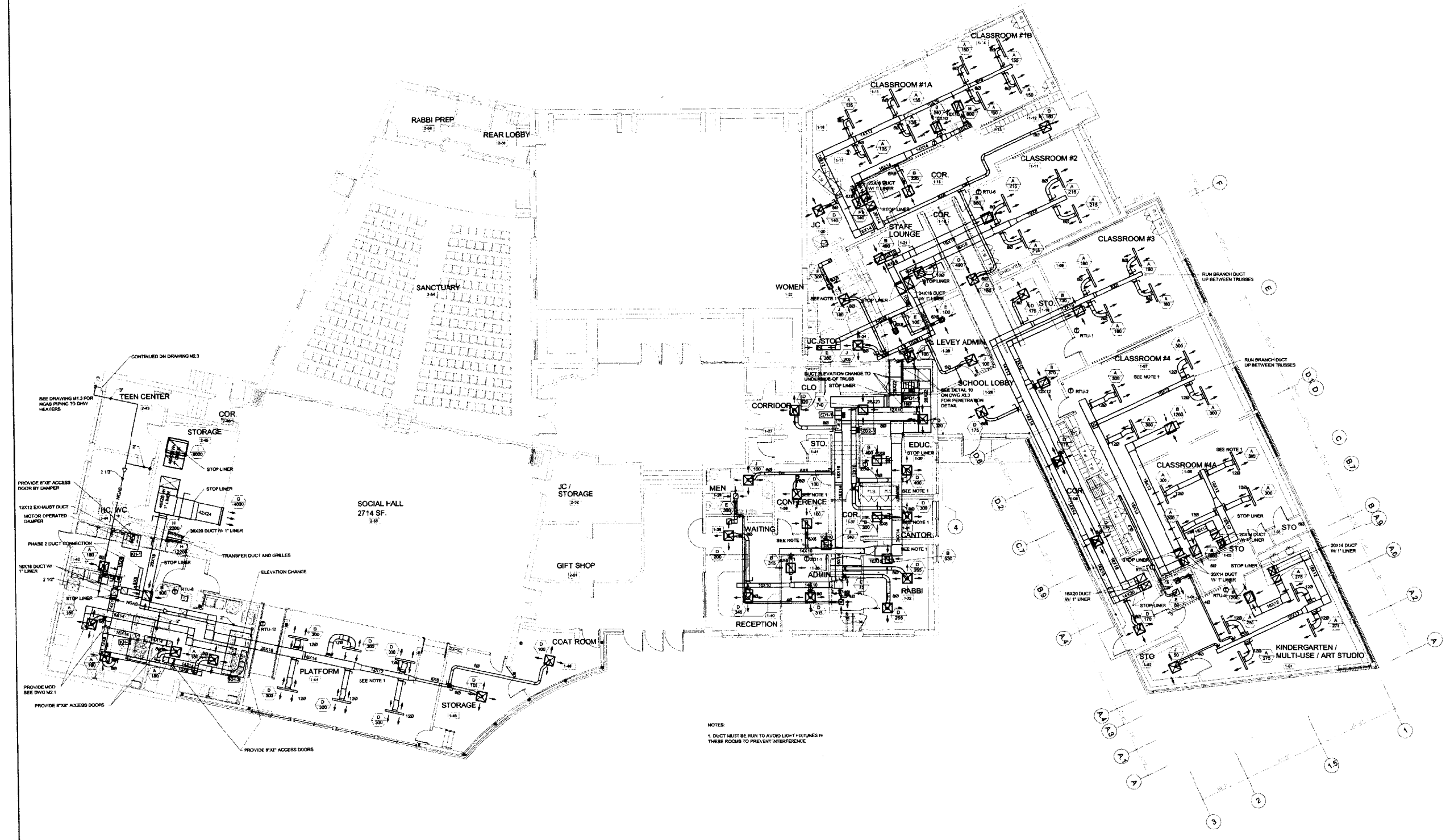
- Consultants
- Civil Engineer: DeLuca-Hoffman Associates
 - Structural Engineer: Pinkham & Groer
 - Mechanical Engineer: Whitney Engineering
 - Electrical Engineer: Thomas Engineering
 - Interior Design: TJM Consulting
 - Lighting Design: J & M Lighting Design, Inc.
 - Accountant/Consultant: Cavanaugh Todd

JOB No. 06.11
Date: 05/15/02
Scale: 1/8" = 1'-0"
Drawn by: TJP
Checked by: NWH

Drawing Title:
FLOOR PLAN
DEMOLITION



M1.0



NOTES
1. DUCT MUST BE RUN TO AVOID LIGHT FIXTURES IN THESE ROOMS TO PREVENT INTERFERENCE.

CONTINUED ON DRAWING M2.3
SEE DRAWING M1.3 FOR HOAS PIPING TO CHW HEATERS
PROVIDE 8" X 8" ACCESS DOOR BY DAMPER
12X12 EXHAUST DUCT MOTOR OPERATED DAMPER
PHASE 2 DUCT CONNECTION
18X18 DUCT W/ 1" LINER
2" STOP LINER
PROVIDE MCO SEE DWG M2.1
PROVIDE 8" X 8" ACCESS DOORS

TRANSFER DUCT AND GRILLES
ELEVATION CHANGE
PROVIDE 8" X 8" ACCESS DOORS



10 Deane Street
Portland, ME 04103
Phone: 603.761.1111
Fax: 603.761.2105
Email: info@architects.com



Consultants
Civil Engineer
Deluca-Hoffman Associates
Structural Engineer
Pinkham & Greer
Mechanical Engineer
Whitney Engineering
Electrical Engineer
Thomas Engineering
Kitchen Design
TJM Consulting
Lighting Design
J & M Lighting Design, Inc.
Acoustical Consultant
Cavanaugh Tocci

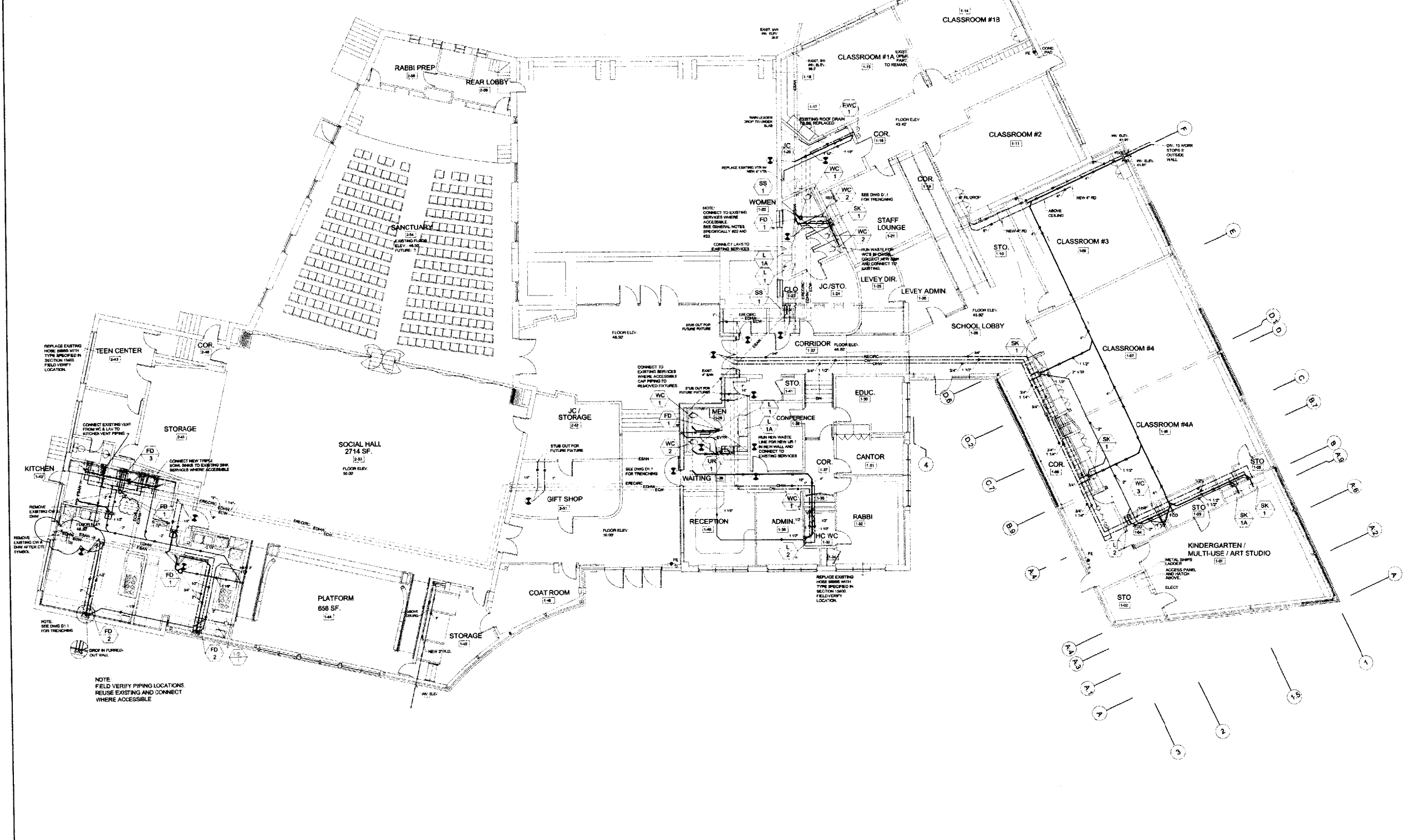
Job No: 9611
Date: 05/15/02
Scale: 1/8" = 1'-0"
Drawn by: DSM
Checked by: DSM

Drawing Title
FLOOR PLAN
HVAC

M1.1



Revisions



NOTE:
FIELD VERIFY PIPING LOCATIONS.
REUSE EXISTING AND CONNECT
WHERE ACCESSIBLE.



10 Denbar Street
Portland, Maine
04102-1807
Phone: 207.761.0911
Fax: 207.761.2105
Email: info@sustainable.com



Consultants

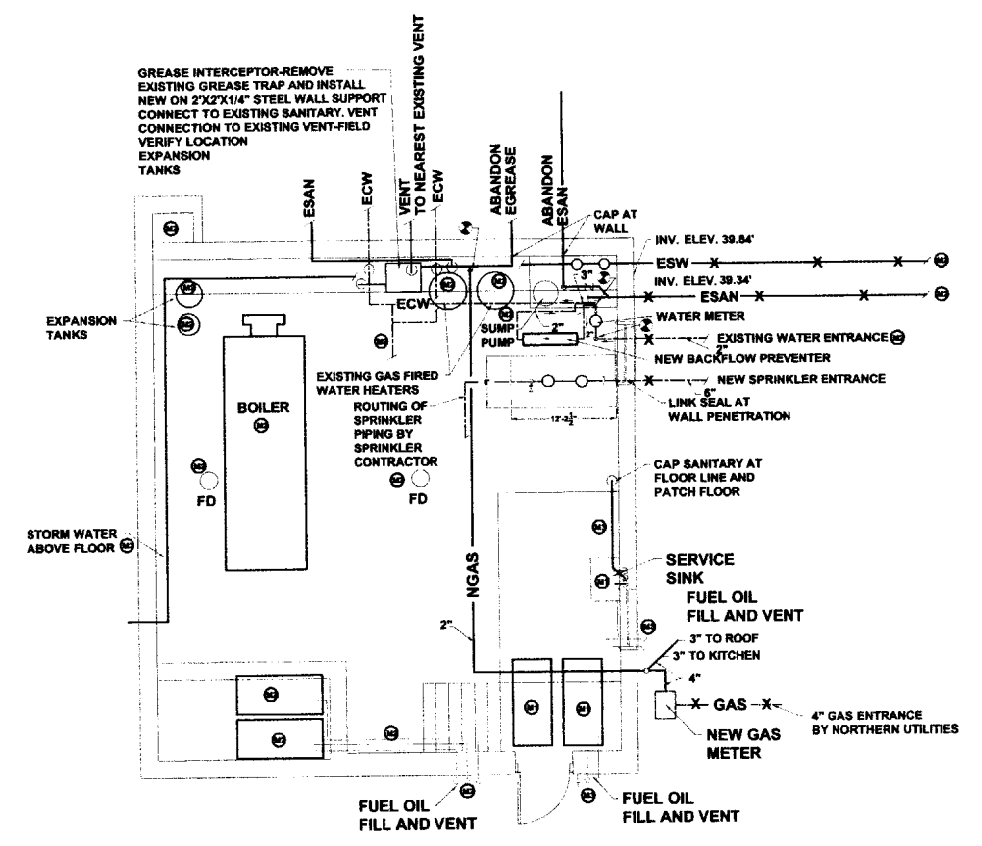
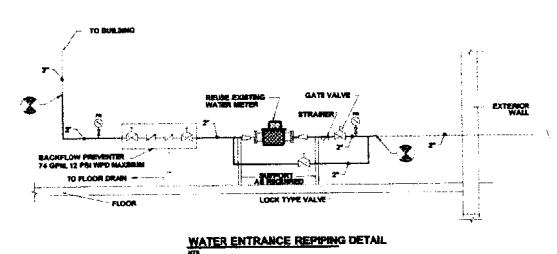
- Civil Engineer
DeLuca-Hoffman Associates
- Structural Engineer
Pankham & Groer
- Mechanical Engineer
Whitney Engineering
- Electrical Engineer
Thomas Engineering
- Kitchen Design
TJM Consulting
- Lighting Design
J & M Lighting Design, Inc.
- Accountical Consultant
Cavanaugh Tood

Job No.: 05-11
Date: 05-15-02
Scale: 1/8" = 1'-0"
Drawn by: TLP
Checked by: RPW

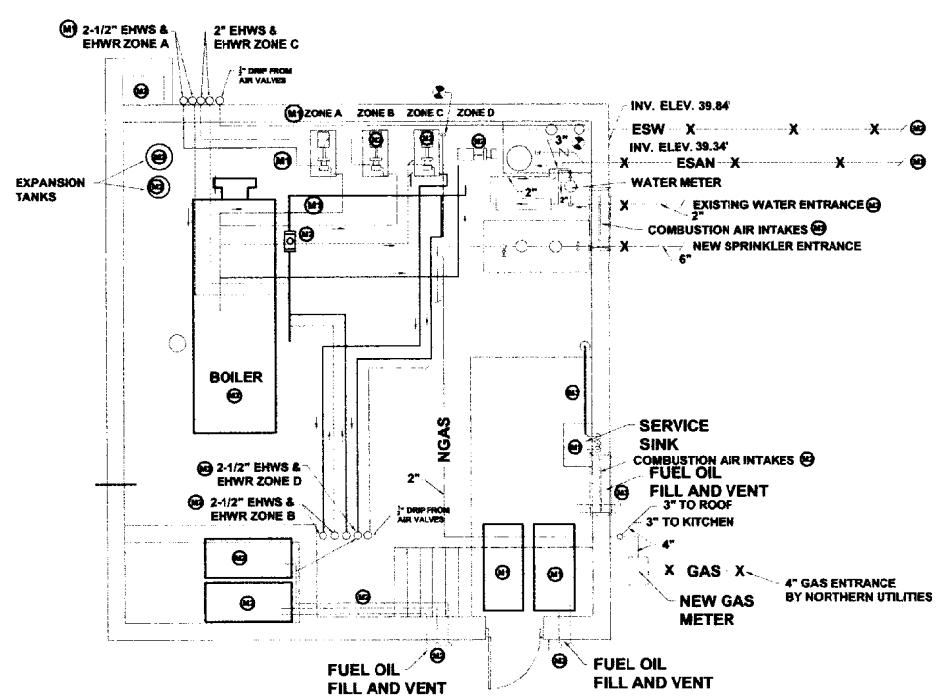
Drawing Title:
FLOOR PLAN
PLUMBING

M1.2





KEY:
 (M) REMOVE UNIT AND ALL SERVICES
 (R) TO REMAIN
 (X) REMOVE PIPING



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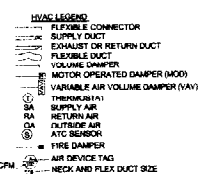
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 Date: 05/13/02
 Scale: 1/4" = 1'-0"
 Drawn by: TLP
 Checked by: RHW

Drawing Title:
**BOILER ROOM
 FLOOR PLAN
 PLUMBING & HVAC**

M1.3

HVAC GENERAL NOTES

- COORDINATE HVAC WORK WITH OTHER TRADES
- ALL DUCTWORK SHALL BE CONCEALED AND LOCATED ON WARM SIDE OF BUILDING INSULATION
- ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD IN COORDINATION WITH OTHER TRADES
- ALL DUCT SIZES SHOWN ARE OUTSIDE DIMENSIONS
- COORDINATE LOCATION OF CEILING DIFFUSERS WITH CEILING GRID
- PROVIDE BALANCING DAMPERS IN ALL BRANCH CONNECTIONS
- USE SPRUN FITTINGS AND DAMPERS WITH FLEX DUCT WHERE POSSIBLE



BYPASS DAMPER SCHEDULE

DAMPER #	SERVICE	CFM	SP	DA	REMARKS
ZD1-1	ZONE	700	0.08VAV	10"	SEE NOTE A
ZD2-1	ZONE	2000	0.08VAV	10"	SEE NOTE A
BPD1-1	BYPASS	2700	0.08VAV	14"	SEE NOTE A

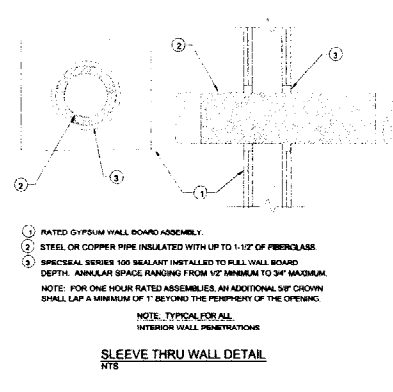
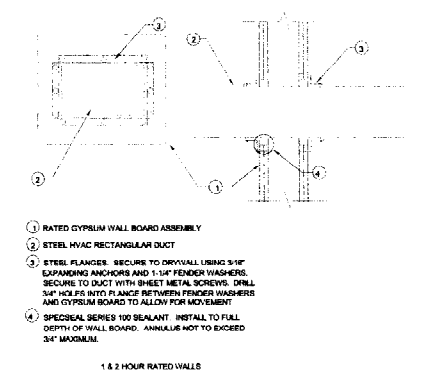
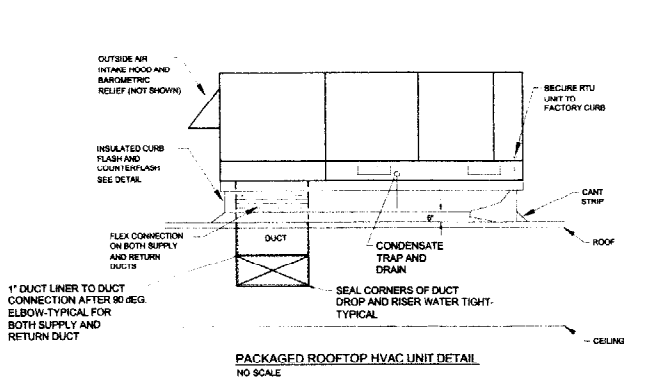
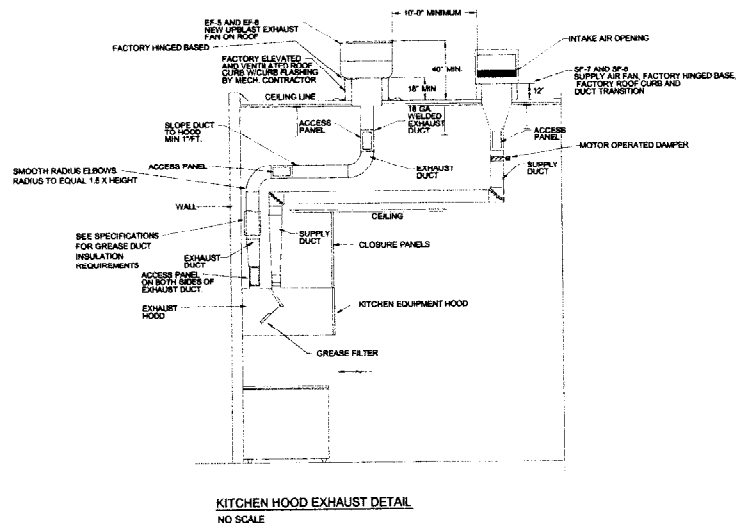
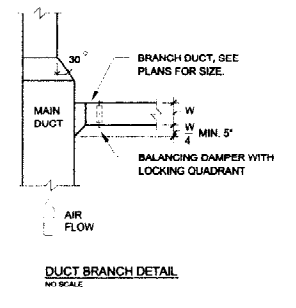
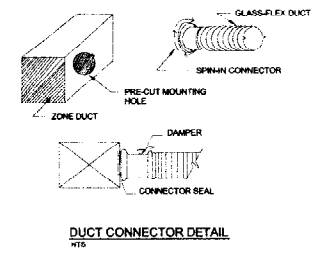
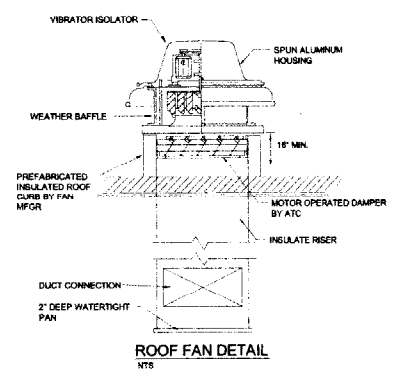
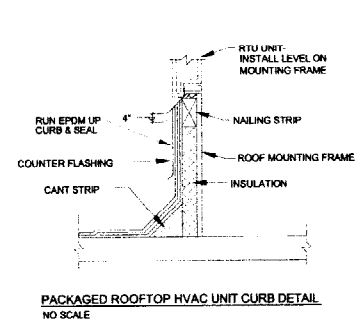
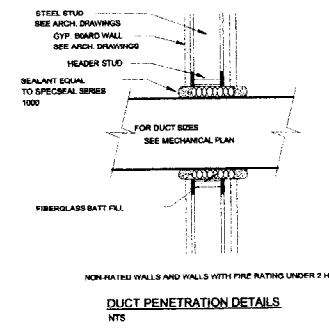
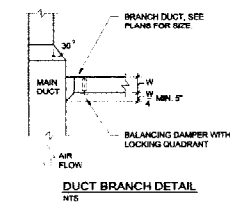
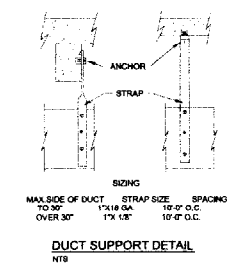
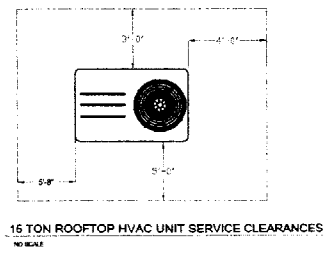
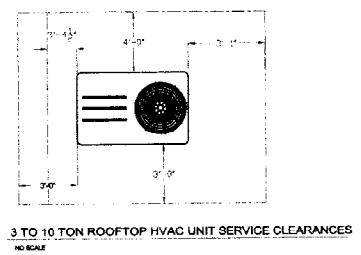
NOTES:
 A. CONTRACTOR MAY USE RECTANGULAR DAMPER WITH CROSS SECTIONAL AREA EQUAL TO THE ROUND DAMPER SIZE.
 B. SP (STATIC PRESSURE) INDICATES PRESSURE DROP ACROSS FULLY OPEN DAMPER.

DIFFUSER/REGISTER SCHEDULE

UNIT	DESCRIPTION	SIZE	CFM	MAX. ING.	THROW (FT)	T.P. W.C.	PATTERN	NOTES
A	LINEAR SLOT DIFFUSER SUPPLY	4"Ø	—	25	—	—	—	T-BAR TYPE, INSULATED PERIMETER (2" Ø) SLOTS, 1" WAY, INLET SIDE PER DRAWING
B	CEILING RETURN GRILLE	24"X24"	—	25	—	05	—	EGGGRATE W/ 1"X1" GRID, T-BAR LAY-IN
C	SQUARE CEILING DIFFUSER	12"X12"	—	25	—	06	—	ADJUSTABLE PATTERN, ROUND NECK, SURFACE MOUNT, NECK SIZE PER DRAWING
D	SQUARE CEILING DIFFUSER	24"X24"	—	25	—	18	—	ADJUSTABLE PATTERN, ROUND NECK, T-BAR LAY-IN, NECK SIZE PER DRAWING
E	CEILING RETURN EXHAUST GRILLE	12"X12"	—	25	—	06	—	EGGGRATE W/ 1"X1" GRID, SURFACE MOUNT
F	CEILING RETURN GRILLE	12"X12" IN 34"X24" PANEL	—	25	—	06	—	EGGGRATE W/ 1"X1" GRID, T-BAR LAY-IN
G	WALL SUPPLY REGISTER	42"X42" H	4000	25	—	07	—	DOUBLE DEFLECTION, ADJUSTABLE BLADES, 3/4" BLADE SPACING
H	WALL TRANSFER GRILLE	36"X36"	2200	25	—	02	—	REVERSIBLE CORE, NARROW BLADE GRILLE
I	CEILING RETURN GRILLE	48"X36"	6000	25	—	07	—	EGGGRATE W/ 1"X1" GRID, SURFACE MOUNT
J	SQUARE CEILING DIFFUSER	24"X24"	—	25	—	15	—	ADJUSTABLE PATTERN, ROUND NECK, T-BAR SURFACE MOUNT, NECK SIZE PER DRAWING

KITCHEN HOOD SCHEDULE

UNIT	DESCRIPTION	TYPE	DIMENSIONS	EXHAUST AIR FLOW	COMPENSATING AIR FLOW	NOTES
KH-1	DISHWASHER EXHAUST HOOD	WALL EXHAUST HOOD W/ EDGE GUTTER	7"Ø L X 3"Ø DEEP	450 CFM	NA	
KH-2	RANGE OVEN EXHAUST HOOD	UNTEMPERED COMPENSATING WALL EXHAUST HOOD	7"Ø L X 4"Ø DEEP	2400 CFM	1480 CFM	
KH-3	RANGE OVEN EXHAUST HOOD	UNTEMPERED COMPENSATING WALL EXHAUST HOOD	9"Ø L X 4"Ø DEEP	2430 CFM	1480 CFM	



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Job No. 96.11
 Date 05/15/02
 Scale 1/8" = 1'-0"
 Drawn by TJP
 Checked by JPV

Drawing Title:
HVAC SCHEDULES & DETAILS

M2.1

PLUMBING LEGEND

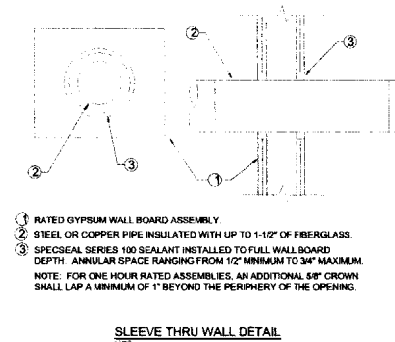
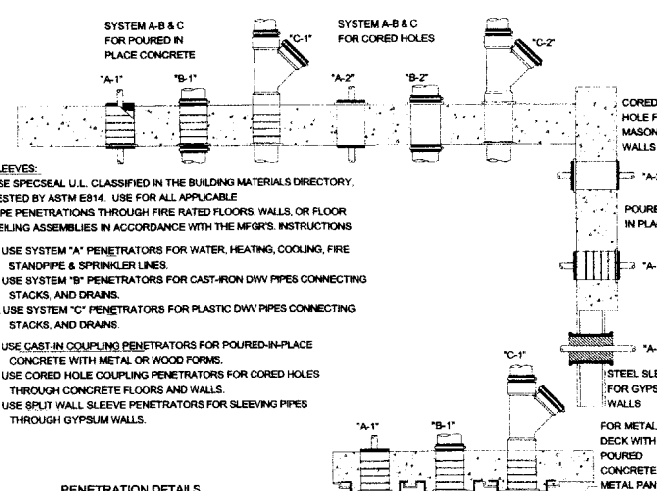
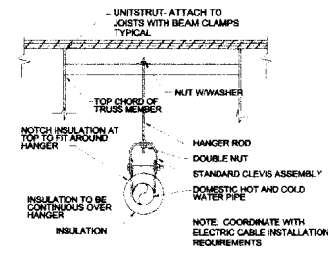
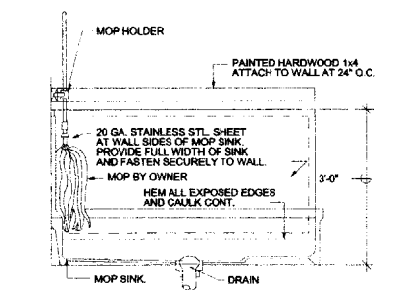
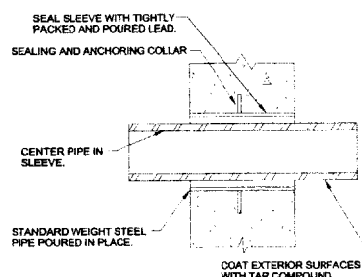
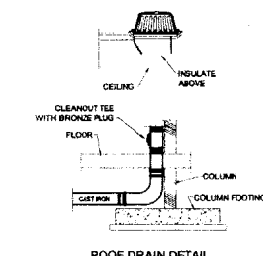
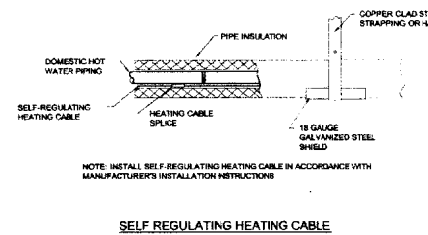
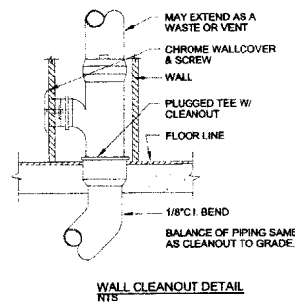
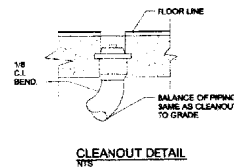
—NGAS—	NATURAL GAS
—SAN—	SANITARY SOIL OR WASTE - ABOVE FLOOR
—SAN—	EXISTING SANITARY
—SW—	SANITARY SOIL OR WASTE-UNDER FLOOR
—RL—	RAIN LEADER
—RL—	RAIN LEADER UNDER FLOOR
—V—	VENT
—EV—	VENT UNDER FLOOR
—EV—	EXISTING VENT
—R—	PIPE RISER
—D—	PIPE DROP
—U—	UNION
—G—	GATE VALVE
—C—	CHECK VALVE
—CW—	COLD WATER
—DHW—	DOMESTIC HOT WATER
—ECW—	EXISTING COLD WATER
—EDHW—	EXISTING DOMESTIC HOT WATER
—H—	HOT WATER
—SPKL—	SPRINKLER
—G—	PRESSURE GAGE WITH SHUT-OFF COCK
—R—	PRESSURE RELIEF VALVE
—H—	NON-FREEZE HOSE BIBB
—CO—	CLEANOUT
—FCO—	FLOOR CLEANOUT
—WCO—	WALL CLEANOUT
—ATF—	ABOVE FINISHED FLOOR
—NTS—	NOT TO SCALE
—INV. ELEV.—	INVERT ELEVATION
—VTR—	VENT THROUGH ROOF
—AP—	ACCESS PANEL
—FBO—	FURNISHED BY OTHERS
—RL—	RAIN LEADER
—RD—	ROOF DRAIN
—C—	CONNECT TO EXISTING
—F—	FLOOR DRAIN
—ERD—	EXISTING ROOF DRAIN
—RD—	ROOF DRAIN
—N—	NEW
—ETR—	EXISTING TO REMAIN
—ER—	EXISTING RELOCATED

PLUMBING GENERAL NOTES

1. ALL PLUMBING FIXTURES SHALL BE BACK VENTED.
2. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH STATE OF MAINE INTERNAL PLUMBING RULES OR THESE CONTRACT DOCUMENTS, WHICHEVER IS MORE STRINGENT.
3. COORDINATE LOCATION OF PLUMBING PIPING WITH OTHER TRADES.
4. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES PROVIDED BY OTHERS.
5. PIPE SIZES ARE NOMINAL, NOT O.D., UNLESS INDICATED OTHERWISE.
6. ALL PIPING SHALL RUN CONCEALED UNLESS SHOWN OTHERWISE.
7. ALL PIPING IS SHOWN DIAGRAMMATICALLY. ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD.
8. NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT APPROVAL OF ARCHITECT.
9. ALL PLUMBING PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. ALL PIPING ABOVE SLAB SHALL BE SUPPORTED FROM TOP CHORD OF BAR JOISTS.
10. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS.
11. ALL PIPING THROUGH ROOFS, MASONRY WALLS AND PARTITIONS SHALL HAVE PIPE SLEEVES. ALL PIPING PENETRATING FIRE RATED WALLS, FIRE RATED PARTITIONS OR FLOORS SHALL BE CAST IRON OR COPPER PER NFPA 101, CODE FOR SAFETY TO LIFE FROM FIRE, IN BUILDINGS AND STRUCTURES, 1994 EDITION.
12. ALL HOT AND COLD WATER PIPING, BURIED OR OTHERWISE, SHALL BE INSULATED.
13. RUN ALL HOT AND COLD WATER PIPING ON WARM SIDE OF BUILDING INSULATION.
14. PROVIDE SHOCK RESISTORS SIZED TO P.D.I. STANDARDS WHERE REQUIRED TO AVOID WATER HAMMER.
15. PROVIDE DRAW-OFFS AT LOW POINTS IN DOMESTIC WATER PIPING. PITCH PIPING TO DRAIN.
16. PROVIDE ACCESSIBLE CLEANOUTS AT BASE OF ALL STACKS AS SHOWN OR AS REQUIRED.
17. ALL FIXTURES SHALL HAVE FLOW RESTRICTORS AND BE WATER SAVING TYPES.
18. MAXIMUM WATER TEMPERATURE AT FIXTURES SHALL BE 120 F UNLESS SHOWN OTHERWISE.
19. ALL PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALLS WITH STEEL SUPPORT BRACKET AND ADJUSTABLE CLIP.
20. ALL WALL FIXTURES SHALL BE CARRIER MOUNTED. COORDINATE CARRIER DIMENSIONS, CONFIGURATION (COMPACT, VERTICAL, HORIZONTAL) WITH CHASES. SEE ARCHITECTURAL INTERIOR FLOOR PLANS.
21. COORDINATE FINAL FIXTURE LOCATION AND HEIGHT WITH ARCHITECTURAL 1/8" SCALE INTERIOR OR FLOOR PLANS AND INTERIOR ELEVATIONS.
22. CONTRACTOR RESPONSIBLE TO PROVIDE ALL FITTINGS AND PIPING TO CONNECT TO EXISTING WASTE, VENT AND WATER LINES WHERE INDICATED.
23. CONTRACTOR TO CONNECT SERVICES WHERE ACCESSIBLE IN MEN'S 1-2S AND WOMEN'S 1-2Z CONNECTIONS TO BE DETERMINED IN THE FIELD.
24. ALL EXISTING FIXTURES SHALL BE REPLACED WITH NEW FIXTURES.

PLUMBING FIXTURE SCHEDULE

FIXTURE	ITEM	WASTE	TRAP	VENT	CW	HW	NOTES
WATER CLOSET ADA APPROVED	WC 1	4"	4"	2"	1"	—	
WATER CLOSET	WC 2	4"	4"	2"	1"	—	
URINAL ADA APPROVED	UR 1	2"	2"	1 1/2"	1"	—	
LAVATORY ADA APPROVED	L 1	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
LAVATORY ADA APPROVED	L 2	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	
CLASSROOM SINK ADA APPROVED	SK 1	2"	1-1/2"	1-1/2"	1/2"	1/2"	
SERVICE SINK	SS 1	2"	2"	1-1/2"	1/2"	1/2"	
ELECTRIC WATER COOLER ADA APPROVED	EWIC 1	1 1/2"	1 1/2"	1-1/2"	1/2"	—	
FLOOR DRAIN	FD 1	3"	3"	1-1/2"	—	—	WITH TRAP PRIMER
FLOOR DRAIN	FD 2	3"	3"	1-1/2"	—	—	
FLOOR DRAIN	FD 3	3"	3"	1-1/2"	—	—	



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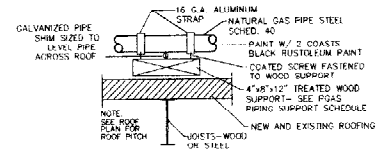
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Job No.: 58.11
Date: 09/15/02
Scale: 1/8" = 1'-0"
Drawn by: TLP
Checked by: RHW

Drawing Title:
PLUMBING SCHEDULES & DETAILS

TRANE	ROOFTOP HVAC SCHEDULE										
TAG	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-12		
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	CORRIDOR & CLASSRM #3	CLASSROOM #4	CLASSROOM #6A	VINDERGARTEN	ADMIN AREA	CLSRM #2 & STAFF AREA	CLASSROOM 1A & 1B	KITCHEN	SOCIAL HALL		
SYSTEM	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	CONSTANT VOLUME	
MODEL	YHC08A37M	YHC08A37M	YHC08A37L	YHC08A37M	YHC09A37L	YHC09A37M	YHC08A37M	YHC08A37M	YHC181G3H		
C.F.M.	1800	1200	1200	1200	3070	2000	1900	1200	6000		
EXTERNAL S.P. ° W.C.	8	0.6	8	8	8	8	8	8	8		
ENT. AIR DB ° F	81.4	84	82.5	80.9	79.8	81.5	81.4	81.8	82.8		
TEMP. WB ° F	68.4	72	69.7	68.5	64.3	67.2	67.3	69.4	70.7		
AMBIENT AIR ° F	95	95	95	95	95	95	95	95	95		
COOL CAP. SENSIBLE MBH	37.0	25.2	19.3	27.3	67.7	44.1	37.0	25.6	128.9		
COOL CAP. TOTAL MBH	47.4	40.9	36.4	36.4	96.2	59.2	47.4	33.1	192.9		
HEATING INPUT MBH	80.0	80.0	80.0	80.0	120	80.0	80.0	80	200		
VOLTS	208	208	208	208	208	208	208	208	208		
HERTZ/PHASE	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3	60/3		
EVAP. FAN HP MIN.	39	10.3	10.3	10.3	12.41/24	17.4	12.5	10.3	37.0/16.9		
R.L.A. COMPRESSOR	17.5	88	77.0	77.0	85/88	123.0	88	77.0	253/124		
L.R.A. COMPRESSOR	22.8	19.4	19.4	19.4	38.1	29.05	22.8	19.4	61		
UNIT MIN. AMPACITY	35	25	25	25	50	45	35	25	90		
FUSE MAX.	430	430	460	360	400	690	530	225	2800		
MIN. O.A. CFM	430	430	460	360	400	690	530	225	2800		
DRIVE	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT		
WT. LBS.	896	896	896	896	1119	753	696	556	2400		
MIN. SEER/AEUE	11.9/81.0	12.5/81.0	12.5/81.0	12.5/81.0	11.4/81.0	12.2/81.0	11.9/81.0	12.5/81.0	11.5/80.7		
MIN. O.A. TEMP.	47	30	38	44	54	42	43	32	35		
O.A. ENTERING MIN. F	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SMOKE DETECTOR	NO	NO	NO	NO	YES	YES	NO	NO	YES		

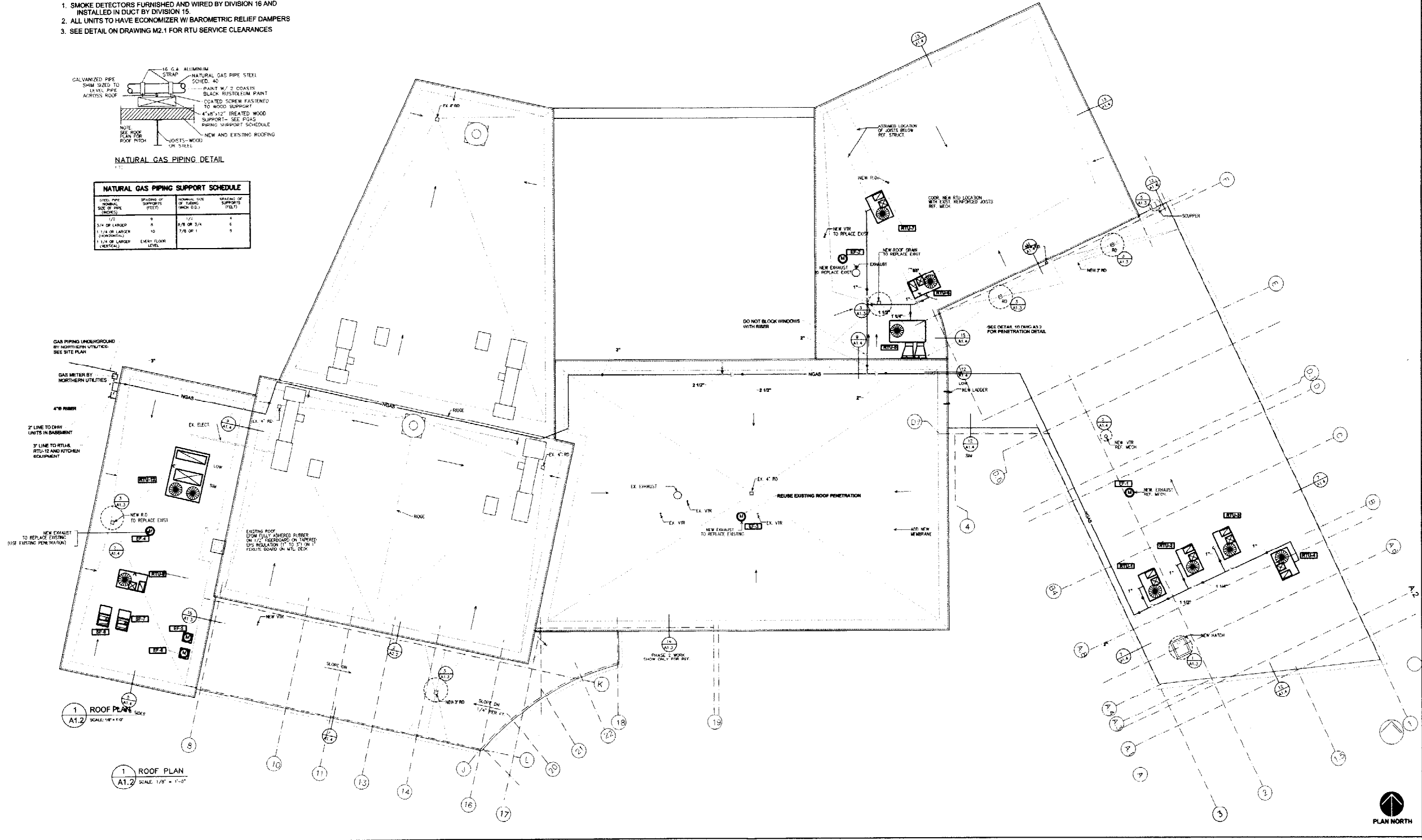
- NOTES:
1. SMOKE DETECTORS FURNISHED AND WIRED BY DIVISION 16 AND INSTALLED IN DUCT BY DIVISION 15.
 2. ALL UNITS TO HAVE ECONOMIZER W/ BAROMETRIC RELIEF DAMPERS
 3. SEE DETAIL ON DRAWING M2.1 FOR RTU SERVICE CLEARANCES



NATURAL GAS PIPING DETAIL

NATURAL GAS PIPING SUPPORT SCHEDULE				
PIPE SIZE (INCH)	SUPPORTS (FEET)	WALL THICKNESS OF FABRIC (INCH)	WALL THICKNESS OF SUPPLY (INCH)	WALL THICKNESS OF RETURN (INCH)
1/2"	5	1/8"	3/8"	1/2"
3/4" OR LARGER	6	3/8"	3/4"	1"
1 1/4" OR LARGER	10	7/8"	1"	1 1/2"
1 1/4" OR LARGER (VERTICAL)	EVERY FLOOR LEVEL			

FAN SCHEDULE								
TAG	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	SF-7	SF-8
LOCATION	TOILET EXHAUST	TOILET EXHAUST	TOILET EXHAUST	DISHWASHER	RANGE HOOD	RANGE HOOD	RANGE HOOD SUP.	RANGE HOOD SUP.
SERVICE	TOILET EXHAUST	TOILET EXHAUST	TOILET EXHAUST	DISHWASHER	RANGE HOOD	RANGE HOOD	RANGE HOOD SUP.	RANGE HOOD SUP.
MAKE	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
MODEL	70C15DH	90C15DH	90C15DH	100R15DH	186V88	186V88	100KSP-8	100KSP-8
C.F.M.	75	300	450	450	2430	2430	1460	1460
BLOWER S.P. ° W.C.	375	0.375	375	4	7	7	5	5
DATA								
TYPE	ROOF/CENTRIF.	ROOF/CENTRIF.	ROOF/CENTRIF.	ROOF/CENTRIF.	ROOF/CENTRIF.	ROOF/CENTRIF.	ROOF/CENTRIF.	ROOF/CENTRIF.
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	BELT	BELT	BELT	BELT
MOTOR DATA								
MECH. H.P.	1/20	1/8	1/8	1/8	3/4	3/4	1/3	1/3
R.P.M.	1550	1550	1550	1550	1127	1127	899	899
VOLTS	115	115	115	115	208	208	115	115
ELEC. PHASE	1	1	1	1	3	3	1	1
HERTZ	60	60	60	60	60	60	60	60
WT. LBS.					176	176	556	556
REMARKS								
SOLID STATE SPEED CONTROL	YES	YES	YES	YES	VFD	VFD	NO	NO
TYPE DAMPER	DIV. 16 GRAVITY	DIV. 15 ATC	DIV. 15 ATC	DIV. 15 ATC	DIV. 16	DIV. 15	DIV. 15 ATC	DIV. 15 ATC
TIME CLOCK	NO	YES	YES	NO	NO	NO	NO	NO
MOTOR	OPEN	OPEN	OPEN	OPEN	NO OPEN	NO OPEN	NO OPEN	NO OPEN



1 ROOF PLAN
A1.2 SCALE 1/8" = 1'-0"



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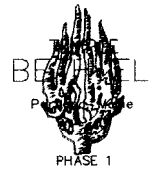
Consultants
Civil Engineer
DeLuca-Hoffman Associates
Structural Engineer
Pinkham & Greer
Mechanical Engineer
Whitney Engineering
Electrical Engineer
Thomas Engineering
Kitchen Design
TJM Consulting
Lighting Design
J & M Lighting Design, Inc.
Acoustical Consultant
Cavanaugh Tocci

Job No: 96.11
Date: 05/15/02
Scale: 1/8" = 1'-0"
Drawn by: TLP
Checked by: RPW

Drawing Title:
ROOF PLAN

M2.3





BASEMENT PLAN
SCALE: 1/8" = 1'-0"

LUMINAIRE SCHEDULE				
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MTG. & DESCRIPTION
A	FOCAL POINT	FLJ2487TBE120GPSWH	3-F032/T8 75CRI	RECESSED 2X4 LAY-IN
AI	FOCAL POINT	FLJ2487TBE120GPSWH	3-F032/T8 75CRI	RECESSED 2X4 FLANK
B	BLP	140RXWW-AKT8-120	1-8X48-3K 75CRI	RECESSED 2'X2'
C	FOCAL POINT	FLJ2282RX40E120GPSWH	2-8X48-3K 75CRI	RECESSED 2'X2'
D	COLUMBIA	AWN4-232EB-120AF	2-F032/T8-3K 75CRI	SURFACE WRAP
E	COLUMBIA	CS4-232EBH-120AF	2-F032/T8-3K 75CRI	SURFACE STRIP
F	KURT VERSEN	P634-SW-120	26CFL-3K 80CRI	RECESSED
G	COLUMBIA	SAM4-332EBH120AF	2-F032/T8 3K 75CRI	SURFACE ABOVE MIRROR
H	COLUMBIA	4PS2432GFS19EM120DU	3-F032/T8	RECESSED 2'X4
I	OMITTED			
J	ISI	2 CKT TRACK WITH 3-Q-600-00-WH BRADS	1-200 T3-CL BSC PER BRAD	LENGTH AND QUANTITIES AS SHOWN
K	KIM	WD140470MH120DB-P A3016-50S14SCM14D	1-70MH ED17 CLMB	SURFACE 1'FT AFG
K1	SAME AS TYPE K EXCEPT MTD AT 15FT AFG			
L	KIM	GEM126PL-DB-RHS	1-26WPL- G034q-3 BASE	BOLLARD
M	KIM	AFL179NH-120DB-P-RHS PS-18-PSM2-RH-P4PDQ	1-59W/MH ED17 CLMB	MTD ON 34" R.S. COND 2" AFG ATOP 1 CU FT CONCRETE BLOCK
N	KURT VERSEN	A7 150 SUPPORT RAILS	26CFL-3K 80CRI	RECESSED
O	OMITTED			
P	COLUMBIA	KL8232R-120PAF-KHC	4-F032/T8	24" CHAIN HUNG
Q	OMITTED			
R	APL	DPLS 26CFL HFF FRZ FG	1-32W/TBX	SURFACE BF

PHASE 1



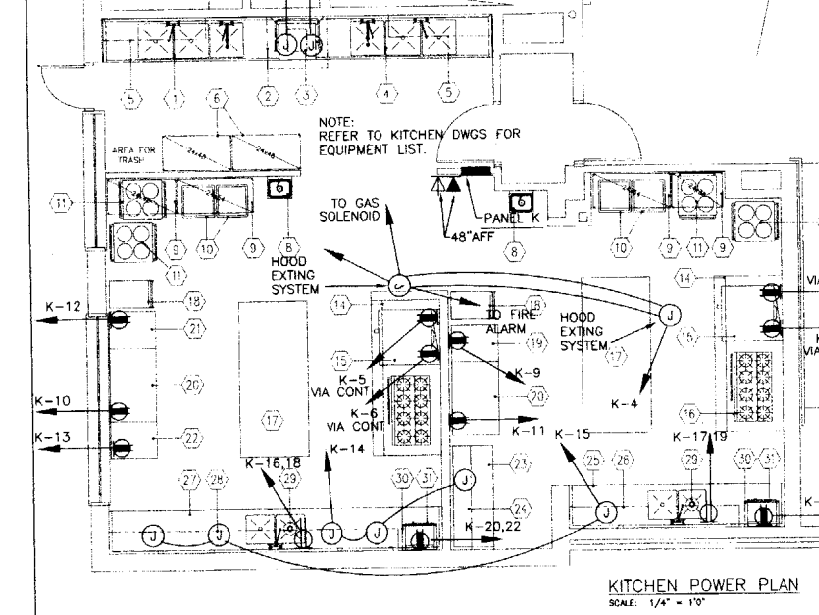
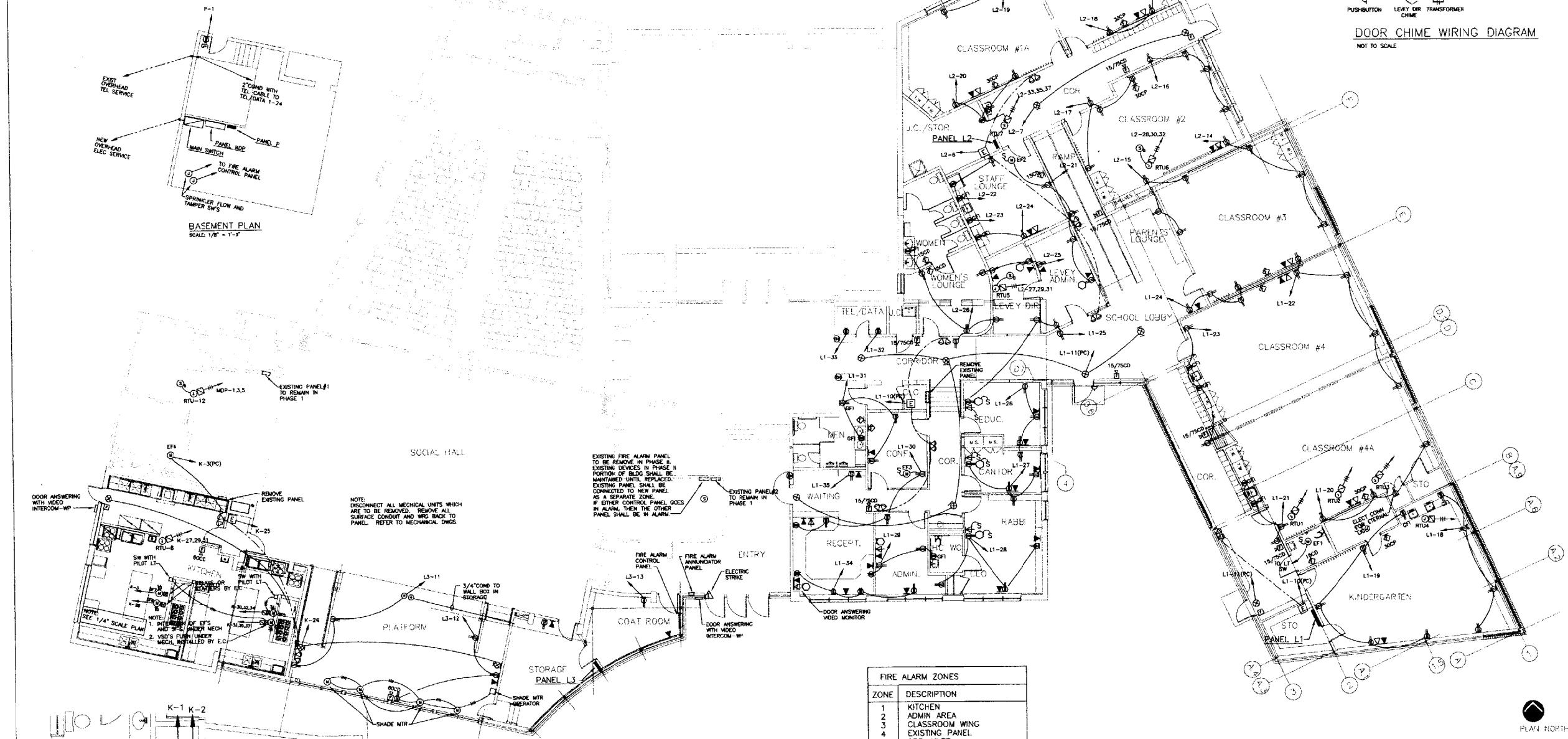
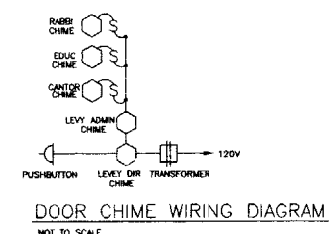
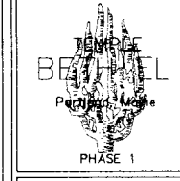
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 T.M. Consulting
 Lighting Design
 J & M Lighting Design, Inc.
 Acoustic Consultant
 Conerough Tucci

Job No: 0611
 Date: 06-15-02
 Scale: 1/8" = 1'-0"
 Drawn by: JMT
 Checked by: JMT

Drawing Title:
**FIRST FLOOR PLAN
 ELECTRICAL - LUMINAIRE**

E1.1



FIRE ALARM ZONES	
ZONE	DESCRIPTION
1	KITCHEN
2	ADMIN AREA
3	CLASSROOM WING
4	EXISTING PANEL
5	SPRINKLER
6	TAMPER SWITCH
7	EXISTING PANEL
8	SPARE (SOCIAL HALL)
9	SPARE (SANCTUARY)
10	SPARE (LOBBY AND ENTRY)
11	SPARE
12	SPARE

PANEL NAME	PANEL MDP		
MAN/LUGS	100A		
FEEDER	3-4" EACH WITH 4#400MCM		
VOLTAGE/PHASE	120/208V, 3 PHASE		
C.B. RATING	22,000A MIN		
SUBFEED LUGS	SIMILAR TO SQUARE D I-LINE		
FED FROM	MAIN SWITCH		
NO. DESCRIPTION	C.B. NO. DESCRIPTION		
1 RTU-12	20A/3	2 PANEL L1	200A/3
3	4	5	6
7 PANEL L1	200A/3	8 PANEL L3	200A/3
9	10	11	12
13 PANEL K	100A/3	14 PANEL P	100A/3
15	16	17	18
19 EX PANEL 1	100A/3	20 EX PANEL 2	100A/3
21	22	23	24
25 SPARE	200A/3	26 SPARE	200A/3
27	28	29	30
31 SPARE	200A/3	32 SPARE	200A/3
33	34	35	36
37 SPARE	100A/3	38 SPARE	100A/3
39	40	41	42
43 SPARE	100A/3	44 SPARE	100A/3
45	46	47	48
49 SPARE	50 SPARE	51 SPARE	52 SPARE
53 SPARE	54 SPARE	55 SPARE	56 SPARE
57 SPARE	58 SPARE	59 SPARE	60 SPARE

PANEL NAME	PANEL P		
MAN/LUGS	100A		
FEEDER	4#3/16#40ND		
VOLTAGE/PHASE	120/208V, 3 PHASE		
C.B. RATING	22,000A MIN		
SUBFEED LUGS	NO		
FED FROM	MDP		
NO. DESCRIPTION	C.B. NO. DESCRIPTION		
1 DW	20A/1	2 DW	20A/1
3 SPY	20A/1	4 SPUR SYS	20A/1
5 COVY OVEN	20A/1	6 COVY OVEN	20A/1
7 SPARE	20A/1	8 COVY OVEN	20A/1
9 SPARE	20A/1	10 REFR	20A/1
11 REFR	20A/1	12 REFR	20A/1
13 REFR	20A/1	14 REFR	20A/1
15 RECP	20A/1	16 DISP	20A/2
17 DISP	20A/2	18	20A/2
19	20	21 MW	20A/2
22	23	24 LTG	20A/1
25 EMERG	20A/1	26 EXT LTS	20A/1
27 RTU-8	25A/3	28 SFB	20A/1
29	30	31 EFS	15A/3
32	33	34	32
35 SPARE	20A/1	36 SPARE	20A/1
37	38	39 SPARE	20A/1
40 SPARE	20A/1	41 SPARE	20A/1
42	43	44	42

PANEL NAME	PANEL K		
MAN/LUGS	225A		
FEEDER	4#4/0,1#40ND		
VOLTAGE/PHASE	120/208V, 3 PHASE		
C.B. RATING	10,000A		
SUBFEED LUGS	NO		
FED FROM	MDP		
NO. DESCRIPTION	C.B. NO. DESCRIPTION		
1 LTG	20A/1	2 LTG	20A/1
3 EMERG	20A/1	4 EXT LTS	20A/1
5 SPARE	20A/1	6 SPARE	20A/1
7 SPARE	20A/1	8 SPARE	20A/1
9 SPARE	20A/1	10 SPARE	20A/1
11 RECP	20A/1	12 RECP	20A/1
13 RECP	20A/1	14 LTG	20A/1
15 TRCK LTG	20A/1	16 SPARE	20A/3
17 SPARE	50A/3	18	20A/1
19	20	21	20A/1
22 SPARE	20A/1	23 EXT LTS	20A/1
24 SPARE	20A/1	25 SPARE	20A/1
26 SPARE	20A/1	27 RECP	20A/1
28 SPARE	20A/1	29 SPARE	20A/1
30 SPARE	20A/1	31 SPARE	20A/1
32 SPARE	20A/1	33 RTU-7	50A/3
34	35	36	34
37	38	39	38
40	41	42	40

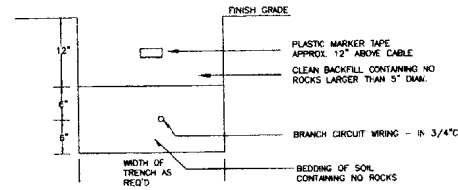
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MAN/LUGS	225A		
FEEDER	4#4/0,1#40ND		
VOLTAGE/PHASE	120/208V, 3 PHASE		
C.B. RATING	10,000A		
SUBFEED LUGS	NO		
FED FROM	MDP		
NO. DESCRIPTION	C.B. NO. DESCRIPTION		
1 LTG	20A/1	2 LTG	20A/1
3 LTG	20A/1	4 LTG	20A/1
5 LTG	20A/1	6 SPARE	20A/1
7 SPARE	20A/1	8 SPARE	20A/1
9 SPARE	20A/1	10 SPARE	20A/1
11 RECP	20A/1	12 RECP	20A/1
13 RECP	20A/1	14 LTG	20A/1
15 TRCK LTG	20A/1	16 SPARE	20A/3
17 SPARE	50A/3	18	20A/1
19	20	21	20A/1
22 SPARE	20A/1	23 EXT LTS	20A/1
24 SPARE	20A/1	25 SPARE	20A/1
26 SPARE	20A/1	27 RECP	20A/1
28 SPARE	20A/1	29 SPARE	20A/1
30 SPARE	20A/1	31 SPARE	20A/1
32 SPARE	20A/1	33 RTU-7	50A/3
34	35	36	34
37	38	39	38
40	41	42	40

PANEL NAME	PANEL L2		
MAN/LUGS	225A		
FEEDER	4#4/0,1#40ND		
VOLTAGE/PHASE	120/208V, 3 PHASE		
C.B. RATING	10,000A		
SUBFEED LUGS	NO		
FED FROM	MDP		
NO. DESCRIPTION	C.B. NO. DESCRIPTION		
1 LTG	20A/1	2 LTG	20A/1
3 LTG	20A/1	4 LTG	20A/1
5 LTG	20A/1	6 SPARE	20A/1
7 SPARE	20A/1	8 SPARE	20A/1
9 SPARE	20A/1	10 SPARE	20A/1
11 RECP	20A/1	12 RECP	20A/1
13 SPARE	20A/1	14 RECP	20A/1
15 RECP	20A/1	16 RECP	20A/1
17 RECP	20A/1	18 RECP	20A/1
19 RECP	20A/1	20 RECP	20A/1
21 RECP	20A/1	22 RECP	20A/1
23 RECP	20A/1	24 RECP	20A/1
25 RECP	20A/1	26 RECP	20A/1
27 RTU-5	55A/3	28 RTU-6	45A/3
29	30	31	30
32	33	34	32
35	36	37	36
38	39	40	38
41	42	43	41

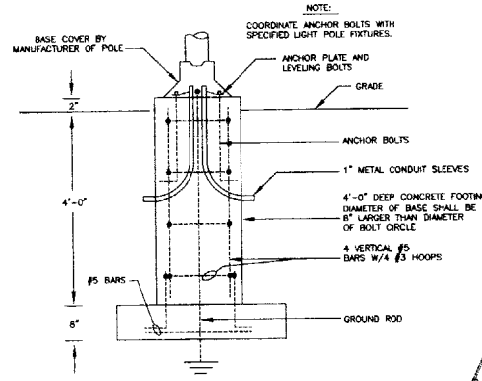
PANEL NAME	PANEL L1		
MAN/LUGS	225A		
FEEDER	4#4/0,1#40ND		
VOLTAGE/PHASE	120/208V, 3 PHASE		
C.B. RATING	10,000A		
SUBFEED LUGS	TWO SECTION		
FED FROM	MDP		
NO. DESCRIPTION	C.B. NO. DESCRIPTION		
1 LTG	20A/1	2 LTG	20A/1
3 LTG	20A/1	4 LTG	20A/1
5 LTG	20A/1	6 LTG	20A/1
7 LTG	20A/1	8 LTG	20A/1
9 LTG	20A/1	10 EMERG	20A/1
11 EXT LTS	20A/1	12 SPARE	20A/1
13 SPARE	20A/1	14 SPARE	20A/1
15 SPARE	20A/1	16 SPARE	20A/1
17 SPARE	20A/1	18 RECP	20A/1
19 RECP	20A/1	20 RECP	20A/1
21 RECP	20A/1	22 RECP	20A/1
23 RECP	20A/1	24 RECP	20A/1
25 RECP	20A/1	26 RECP	20A/1
27 RECP	20A/1	28 RECP	20A/1
29 RECP	20A/1	30 RECP	20A/1
31 RECP	20A/1	32 RECP	20A/1
33 RECP	20A/1	34 RECP	20A/1
35 RECP	20A/1	36 EXT LTG	20A/1
37 RTU-1	35A/3	38 RTU-2	25A/3
39	40	41	40
42	43	44 RTU-4	25A/3
45	46	47	46
48	49	50	48
51 SPARE	52 SPARE	53 SPARE	54 SPARE
55 SPARE	56 SPARE	57 SPARE	58 SPARE
59 SPARE	60 SPARE		

10 Cantor Show
Panel Color Box
60 DTS
Project: Main
01/11/05
Date: 05-14-07
Scale: 1/4" = 1'-0"
Drawn by: JTM
Checked by: HT

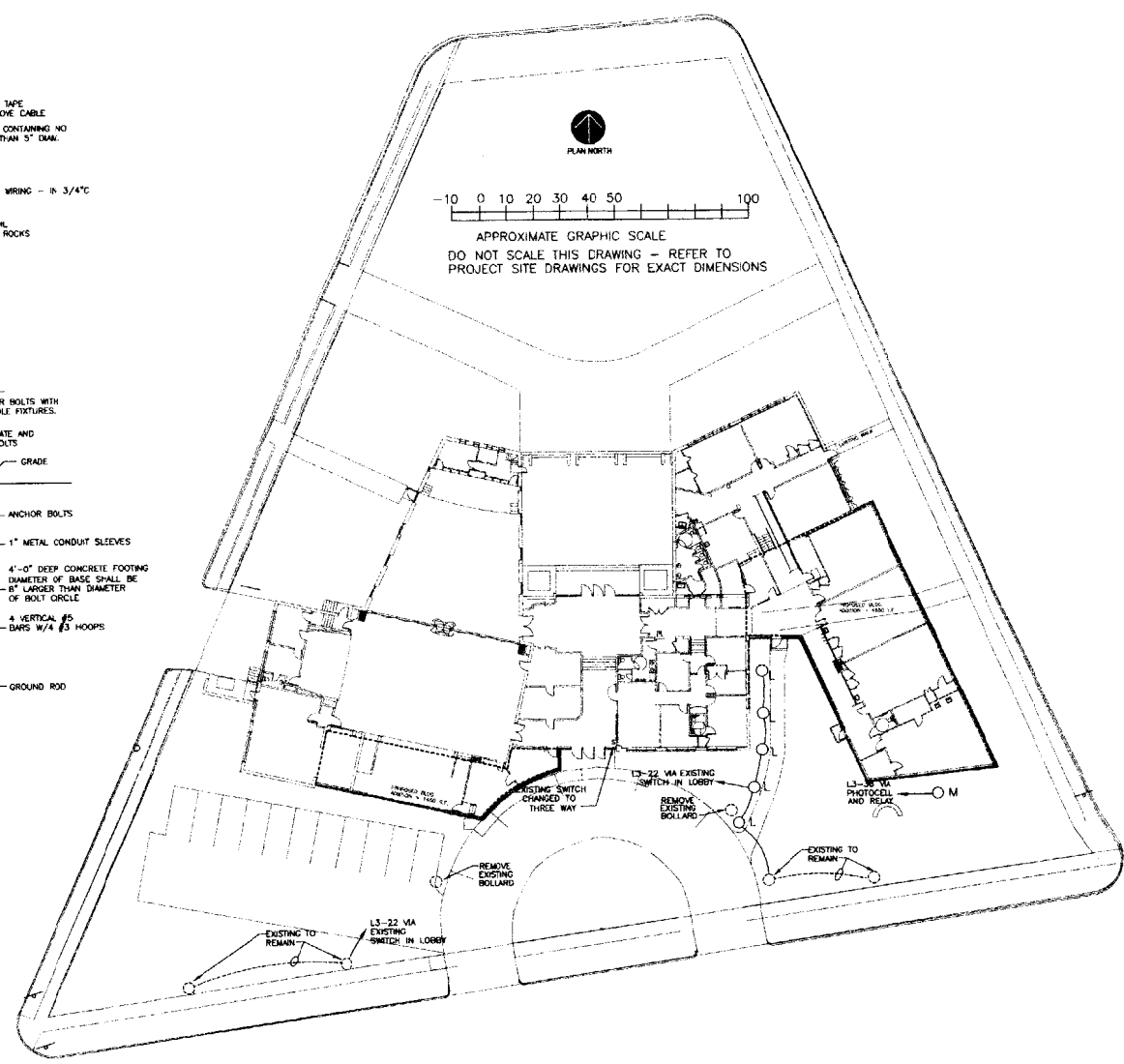
Consistants
Engineer: Deluca-Hoffman Associates
License Number: Control Associates
Structural Engineer: Probert & Greer
Mechanical Engineer: Whiteley Engineering
Electrical Engineer: Thomas Engineering
Name: J & M Consulting
Lighting Designer: J & M Lighting Design, Inc.
Account Consultant: Carnaghan Tocco



TRENCH DETAIL
NOT TO SCALE



POLE BASE DETAIL
NOT TO SCALE

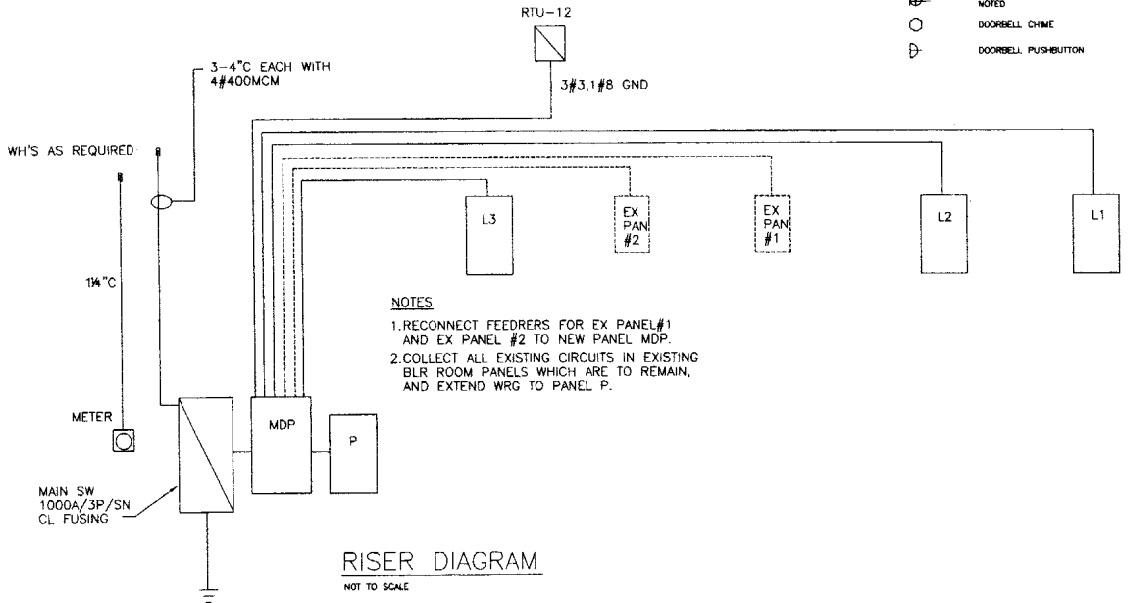


GENERAL NOTES

1. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND THE N.E.C.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOAD ON THE PANELS.
3. SWITCHES SHALL BE MOUNTED 4'-0" TO TOP OF PLATE. SWITCHES SHOWN IN SAME AREA SHALL BE GANGED UNDER A COMMON PLATE. LOCATE SWITCHES AS CLOSE AS POSSIBLE TO EDGE OF DOOR FRAME ON LOCKSIDE.
4. MINIMUM WIRE SIZE SHALL BE #12AWG COPPER. ALL REFERENCE TO WIRE SIZE IS INTENDED AS COPPER. CIRCUIT BREAKER SIZE (AS PER PANEL SCHEDULE) SHALL INDICATE WIRE SIZE OF ALL CONDUCTORS.
5. THE ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED BY MEANS OF A SEPARATE GROUND CONDUCTOR. CONDUIT SHALL NOT BE CONSIDERED A GROUND CONDUCTOR, BUT SHALL BE GROUNDED. (USE TABLE 250-95 IN N.E.C.)
6. THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES WHERE EQUIPMENT AND/OR DEVICES ARE FURNISHED BY OTHER TRADES AND WIRED WHOLLY OR IN PART BY THIS CONTRACTOR SO AS TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
7. ALL HOMERUN TO PANEL IN EXCESS OF 100 FEET SHALL BE AT LEAST #10AWG COPPER.
8. OUTLETS OR JUNCTION BOXES MOUNTED BACK TO BACK SHALL BE PROHIBITED.
9. PROVIDE 2-1/2" EMPTY FROM EACH RECESSED PANEL EXTENDED TO ACCESSIBLE CEILING SPACE ABOVE EACH PANEL OR TO BOX 10" AFF IF NO CEILING. CAP FOR FUTURE USE.
10. OUTLETS BACK TO BACK WITHIN 24 INCHES OF EACH OTHER IN FIRE RATED WALLS SHALL BE ENCASED WITH FIRE RATED BACKER.
11. THIS CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF FIRE RATED WALLS BY SEALING ALL WIRING, CONDUIT, ETC., WHICH PASSES THROUGH SUCH WALLS WITH AN APPROVED FIRE RATED SEALANT.
12. THIS CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS FOR ALL OUTLETS. COORDINATE RECEPTACLES CAREFULLY PRIOR TO INSTALLATION.
13. ALL HWY SCHEMATICS SHOWN ARE DIAGRAMMATICAL ONLY. REFER TO EQUIPMENT AND CONTROL MANUFACTURER'S SHOP DRAWINGS FOR EXACT WIRING.
14. ALUMINUM CABLES SHALL BE THREADED WITH COMPRESSION FITTINGS, USE ANTI-OXIDE PASTE.
15. DIAGRAMS DO NOT NECESSARILY SHOW ALL ITEMS INCLUDED IN THE SYSTEM. REFER TO FLOOR PLANS, ETC., FOR COMPLETE SYSTEM.
16. LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES, TELEPHONE OUTLETS, ETC. SHALL BE CONFIRMED AND VERIFIED FROM ARCHITECTURAL DRAWINGS, I.E. ELEVATIONS, SECTIONS, RESECTIONED COLUMN, ETC.
17. DISCONNECT, REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, AND BRANCH CIRCUITS WHICH AFFECT OR ARE AFFECTED BY THE NEW CONSTRUCTION.
18. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTERISTICS OF THE EXISTING OUTLETS AND WIRING. EXACT LOCATIONS ARE NOT NECESSARILY AS SHOWN ON THE DRAWINGS. THIS CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED FOR ACTUAL EXISTING FIELD CONDITIONS.
19. ALL ELECTRICAL EQUIPMENT THAT IS NOT TO BE REUSED WITH THE NEW CONSTRUCTION IN AREAS THAT ARE BEING REMOVED, SHALL BE REMOVED. THIS INCLUDES ALL EXISTING LIGHTING FIXTURES, DEVICES, WIRING, EXPOSED CONDUIT, ETC.
20. PRIOR TO INSTALLING NEW WIRING DEVICES, COORDINATE WITH THE ARCHITECT. ALLOW PANEL LOCATIONS TO BE RELOCATED 6 FEET IN ANY DIRECTION.
21. MODIFY ALL PANEL DIRECTORIES TO DESIGNATE ALL NEW OR RELOCATED LOADS AND SPARE CIRCUIT BREAKERS.
22. EXACT LOCATIONS OF OUTLETS AND FEEDS TO ALL KITCHEN EQUIPMENT SHALL BE VERIFIED WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION.
23. ALL EXPOSED WIRING IN FINISHED AREAS SHALL BE IN WIREMOLD (OR APPROVED EQUAL).
24. THE LIGHTING FIXTURE SCHEDULE SHALL NOT BE THE SOLE LIGHTING REFERENCE. REFER TO THE DRAWINGS TO VERIFY QUANTITIES, BALLAST CONFIGURATIONS, AND DIMENSIONS OF FIXTURES PRIOR TO BIDDING.

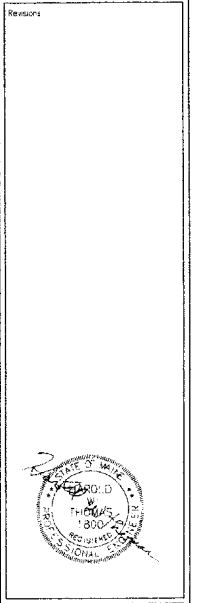
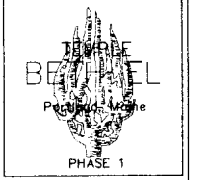
LEGEND

- CONDUIT AND/OR WIRING RUN CONCEALED - ARROW DENOTES HOMERUN TO PANEL - HASHMARKS DENOTE NUMBER OF WIRES OTHER THAN TWO
- CONDUIT AND WIRING RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE
- DC WIRING FOR EMERGENCY LIGHTING - SIZED AS REDD
- LIGHTING AND POWER PANEL
- FLUORESCENT FIXTURE
- LIGHTING FIXTURE - WALL OUTLET
- LIGHTING FIXTURE - CEILING OUTLET
- RECESSED FIXTURE
- TRACK LIGHTING
- SINGLE POLE SWITCH - NUMERAL DENOTES NUMBER OF SWITCHES IN GANG - LETTERS DENOTE FIXTURES CONTROLLED
- S SINGLE POLE SWITCH
- S₂ TWO POLE SWITCH
- S₃ THREE WAY SWITCH
- S₄ FOUR WAY SWITCH
- S₅ SWITCH AND PILOT ASSEMBLY
- S₆ DIMMER SWITCH
- S₇ THERMAL OVERLOAD SWITCH
- DUPLEX CONVENIENCE OUTLET 18" AFF EXCEPT AS NOTED
- DUPLEX CONVENIENCE OUTLET 44" AFF
- FLOOR MOUNTED DUPLEX CONVENIENCE OUTLET
- FLOOR MOUNTED OUTLET FOR FUTURE MICROPHONE
- VOICE/DATA OUTLET - WALL TYPE MOUNTED 18" AFF EXCEPT AS NOTED - RUN 3/4" CONDUIT FROM BOX TO ACCESSIBLE CEILING
- VIDEO MONITOR UNIT FOR DOOR ANSWERING SYSTEM
- AUDIO MONITOR UNIT FOR DOOR ANSWERING SYSTEM
- TELEVISION OUTLET - WALL TYPE MOUNTED 18" AFF EXCEPT AS NOTED - JUNCTION BOX - SIZED AS REQUIRED
- ELECTRIC MOTOR - NUMBER INDICATED H.P.
- DISCONNECT SWITCH - FUSED AS REQUIRED
- ELECTRIC MOTOR CONTROLLER
- EMERGENCY LIGHTING UNIT W/REMOTE HEADS AS SHOWN - MOUNTED 90 TOP OF HEADS ARE 8" BELOW CEILING
- EMERGENCY LIGHTING BATTERY UNIT
- EXIT LIGHTING UNIT - CEILING OUTLET
- EXIT LIGHTING UNIT - WALL OUTLET
- FIRE ALARM MANUAL STATION
- FIRE ALARM HORN AND LIGHT UNIT - MOUNT 80" AFF EXCEPT NO CLOSER THAN 8" TO CEILING
- FIRE ALARM VISUAL UNIT
- SMOKE DETECTOR - "D" DENOTES DUCT TYPE - BUILDING SYSTEM
- FIRE ALARM THERMAL DETECTOR - COMBINATION
- MAGNETIC DOOR HOLDER
- AFF ABOVE FINISH FLOOR
- AFG ABOVE FINISH GRADE
- DO DOUBLE DUPLEX
- GI GROUND FAULT INTERRUPTER
- EWC ELECTRIC WATER COOLER
- EF EXHAUST FAN
- WP WEATHERPROOF
- UV UNIT VENTILATOR
- UH UNIT HEATER
- PC PARTIAL CIRCUIT
- CP CIRCULATING PUMP
- SPECIAL PURPOSE OUTLET - SIZED AS REQUIRED
- DUPLEX CONVENIENCE OUTLET - ISOLATED GROUND - 18" AFF EXCEPT AS NOTED
- DOORBELL CHIME
- DOORBELL PUSHBUTTON



- NOTES
1. RECONNECT FEEDERS FOR EX PANEL #1 AND EX PANEL #2 TO NEW PANEL MDP.
 2. COLLECT ALL EXISTING CIRCUITS IN EXISTING BLR ROOM PANELS WHICH ARE TO REMAIN, AND EXTEND WRG TO PANEL P.

RISER DIAGRAM
NOT TO SCALE



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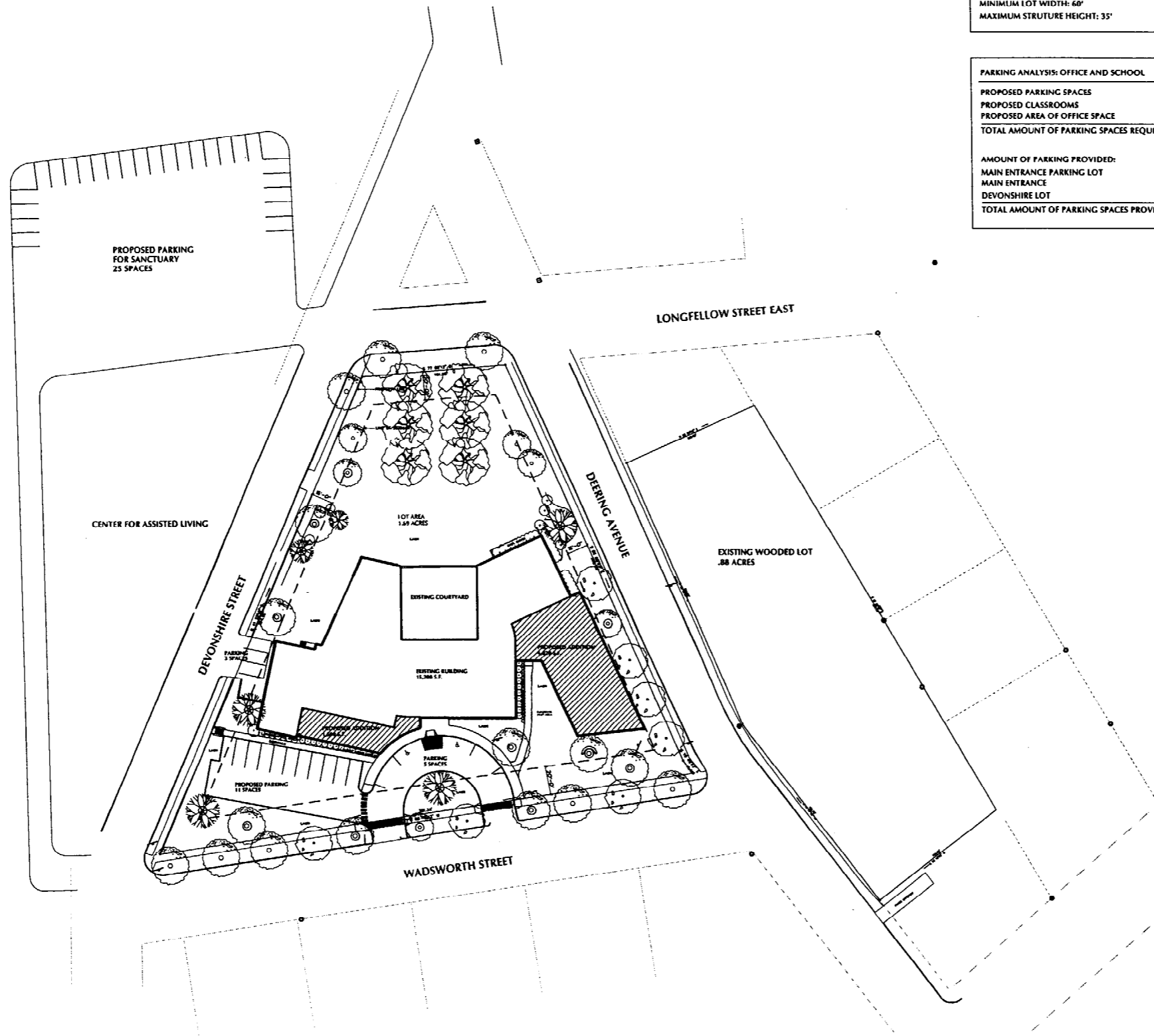
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- Mechanical Engineer
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- Civil Engineer
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- Interior Design
TJM Consulting
- Lighting Design
J & M Lighting Design, Inc.
- Acoustical Consultant
Cavanaugh Tucci

Job No.: 0611
Date: 06-19-02
Scale: 1/8" = 1'-0"
Drawn by: JTM
Checked by: HT

Drawing Title:
ELECTRICAL SCHEDULES
AND DETAILS

E3.1

R5 ZONE - RESIDENTIAL



SITE PLAN
SCALE: 1/4" = 1'-0"

ZONING ANALYSIS	
MINIMUM LOT SIZE: 1 ACRE	1.69 ACRES - OK
MINIMUM STREET FRONTAGE: 50'	275' - OK
MINIMUM LOT COVERAGE: 40%	
	EXISTING BUILDING 15,200 S.F.
	PROPOSED ADDITIONS 6,320 S.F.
	TOTAL S.F. 21,520 S.F.
	AREA OF LOT 71,917 S.F.
	LOT COVERAGE = 30% - OK
MINIMUM LOT WIDTH: 60'	373' - OK
MAXIMUM STRUCTURE HEIGHT: 35'	21' - OK

PARKING ANALYSIS: OFFICE AND SCHOOL	
PROPOSED PARKING SPACES	
PROPOSED CLASSROOMS	7 @ 1 PER CLASSROOM = 7 REQUIRED PARKING SPACES
PROPOSED AREA OF OFFICE SPACE	1,520 @ 1 SPACE PER 400 SF. = 4 REQUIRED PARKING SPACES
TOTAL AMOUNT OF PARKING SPACES REQUIRED	11 PARKING SPACES
AMOUNT OF PARKING PROVIDED:	
MAIN ENTRANCE PARKING LOT	11 SPACES
MAIN ENTRANCE	5 SPACES
DEVONSHIRE LOT	3 SPACES
TOTAL AMOUNT OF PARKING SPACES PROVIDED	19 SPACES



PHASE 1



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Consultants

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- Landscape Architect: Carroll Associates
- Structural Engineer: Paulina S. Greer
- Mechanical Engineer: Whitney Engineering
- Electrical Engineer: Thomas Engineering
- Kitchen Design: T.M. Consulting
- Lighting Design: J. & M. Lighting Design, Inc.
- Assisted Care: Cavanaugh Tucci

Job No.: 85.3
Date: 4/23/12
Scale: 1/8" = 1'-0"
Drawn by: DS4
Checked by: DS4

Drawing Title:
ZONING ANALYSIS

R2



NFPA 101 NOTES:

- BUILDING WILL BE FULLY SPRINKLERED
- CLASSIFICATION: ASSEMBLY PLACE OF WORSHIP
- CONSTRUCTION TYPE: I (WOOD)
- PROPOSED TOTAL AREA: 24,811 SF
- PROPOSED HEIGHT: 1

4. FIRE RESISTANCE RATINGS:

EXTERIOR LOADBEARING WALLS	0	HOURS
EXTERIOR NON-LOADBEARING WALLS	0	HOURS
EXIT ACCESS CORRIDORS	0	HOURS
COLUMNS	0	HOURS
FLOOR CONSTRUCTION (BEAM)	0	HOURS
FLOOR CONSTRUCTION (DECK)	0	HOURS
ROOF CONSTRUCTION	0	HOURS

BOCA NOTES:

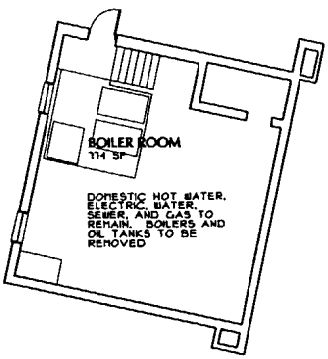
- BUILDING WILL BE FULLY SPRINKLERED
- USE GROUP: A-1
- CONSTRUCTION TYPE: 3C UNPROTECTED
- PROPOSED TOTAL AREA: 24,811 SF
- PROPOSED HEIGHT: 1

4. FIRE RESISTANCE RATINGS:

EXTERIOR LOADBEARING WALLS	0	HOURS
EXTERIOR NON-LOADBEARING WALLS	0	HOURS
EXIT ACCESS CORRIDORS	0	HOURS
BEARING WALLS (COLUMNS/CORNERS)	0	HOURS
FLOOR CONSTRUCTION (BEAM)	0	HOURS
FLOOR CONSTRUCTION (DECK)	0	HOURS
ROOF CONSTRUCTION #1 OR LESS	0	HOURS
ROOF CONSTRUCTION #2 OR MORE	0	HOURS

LEGEND:

- 7 HOUR RATED PARTITION
- 1 HOUR RATED PARTITION
- 3/4 HOUR RATED DOORS
- SMOKE PARTITION
- 1/2 HOUR RATED DOORS



2 BOILER ROOM
A0.1 SCALE: 1/8" = 1'-0"

SANCTUARY / SOCIAL HALL / PLATFORM

70 TOTAL OCCUPANTS
3/4" OPENINGS = 2' / OCCUPANT = 1,030 ALLOWABLE

CLASSROOM #1 (WITH CURTAIN OPEN)
410 SF * 20 SF = 20 OCC.

CLASSROOM #1B
100 SF * 20 SF = 20 OCC.

CLASSROOM #1A
410 SF * 20 SF = 20 OCC.

CLASSROOM #2
540 SF * 20 SF = 27 OCC.

CLASSROOM #3
610 SF * 20 SF = 30 OCC.

CLASSROOM WING

31 TOTAL OCCUPANTS
100' OPENINGS * 2' / OCCUPANT = 80 ALLOWABLE

CLASSROOM #4 (WITH CURTAIN OPEN)
1,485 SF * 1 SF = 212 OCC.

CLASSROOM #4B
150 SF * 20 SF = 38 OCC.

ART ROOM / MULTIPURPOSE
150 SF * 20 SF = 38 OCC.

ADMINISTRATION WING

1 TOTAL OCCUPANTS
100' OPENINGS * 2' / OCCUPANT = 80 ALLOWABLE

1 CODE REVIEW PLAN
A0.1 SCALE: 1/8" = 1'-0"



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Consultants:

- Chief Engineer: DeLuca-Hoffman Associates
- Structural Engineer: Peckham & Greer
- Mechanical Engineer: Whitney Engineering
- Electrical Engineer: Thomas Engineering
- Interior Designer: T.J.M. Consulting

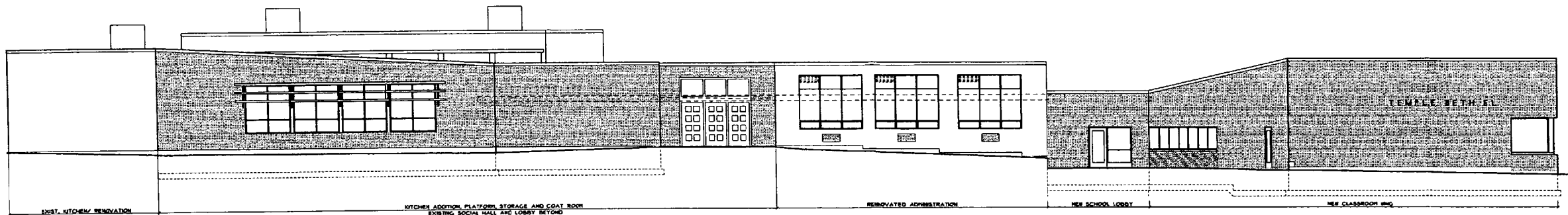
Job No: 05.1
Date: 4/18/02
Scale: 1/8" = 1'-0"
Drawn by: DSM
Checked by: DSM

Drawing Title:
CODE REVIEW PLAN

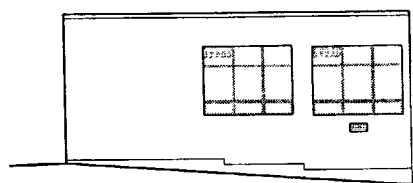
R3



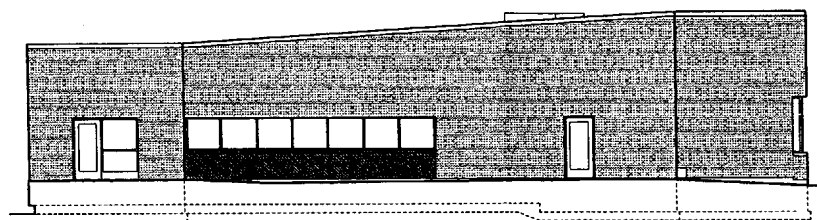
PHASE 1



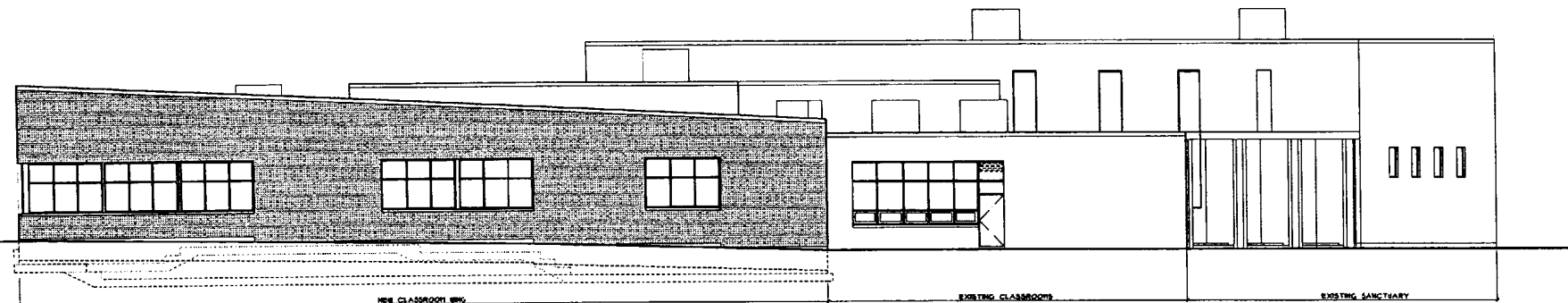
1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



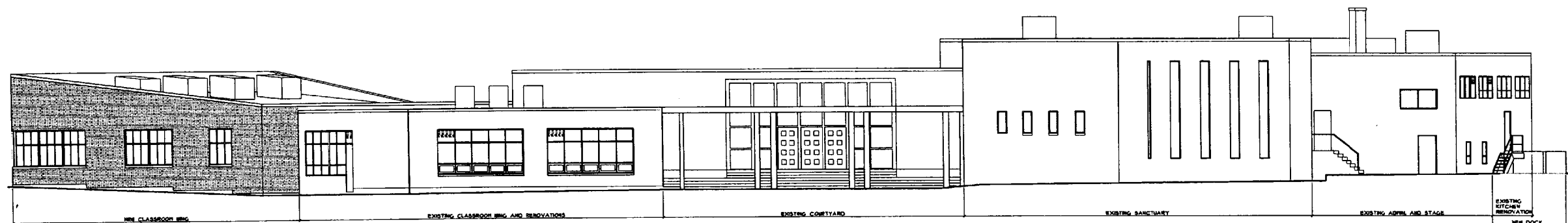
2 EAST ELEVATION - ADMIN WING
SCALE: 1/8" = 1'-0"



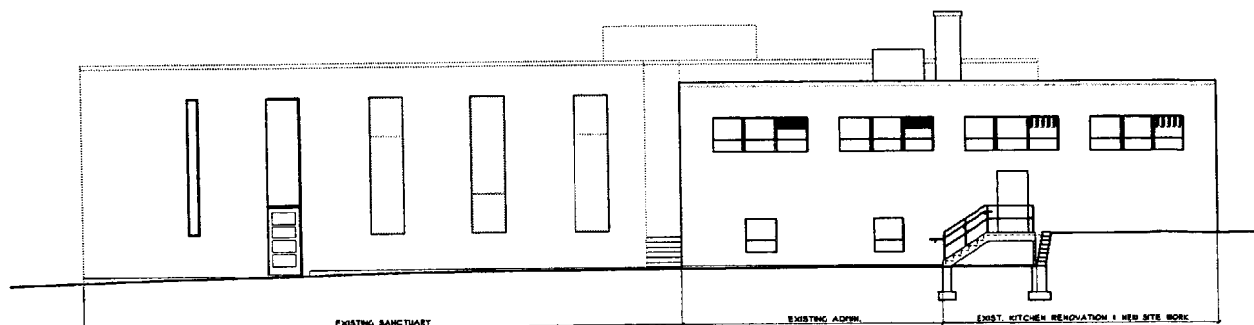
3 WEST ELEVATION - SCHOOL WING
SCALE: 1/8" = 1'-0"



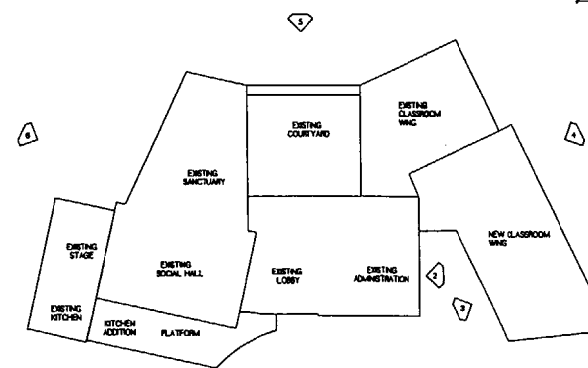
4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



5 WEST ELEVATION
SCALE: 1/8" = 1'-0"



6 WEST ELEVATION
SCALE: 1/8" = 1'-0"



KEY PLAN

PROGRESS PRINT - NOT FOR CONSTRUCTION

Architects

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Consultants

Civil Engineer
DeLuca-Hoffman Associates
Structural Engineer
Pitman & Greer
Mechanical Engineer
Whitney Engineering
Electrical Engineer
Thomas Engineering
Kitchen Design
T.M. Consulting

Job No: 063
Date: March 28, 2002
Scale: 1/8" = 1'-0"
Drawn by: ABF / WHG
Checked by: DM

Drawing Title:
EXTERIOR ELEVATIONS

A2.1