

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK
CITY OF PORTLAND

Please Read
 Application And
 Notes, If Any,
 Attached

BU **PERMIT** ICTION

Permit Number: 081329

This is to certify that HAGGE CYRUS Y & PATRICIA H D H THAXTER CORP
 has permission to Amendment to Permit 08-0005 top ceiling grid, interior stair change, revise side entrance
 AT 45 TURNER ST CE 014 H01500

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

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

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

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

OTHER REQUIRED APPROVALS

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

Director Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

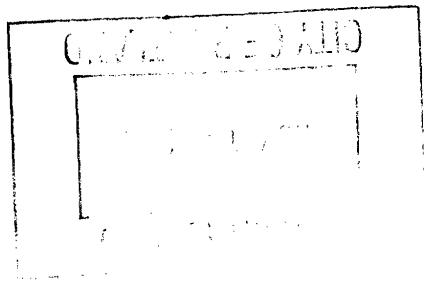
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-1329	Issue Date:	CBL: 014 H015001
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Location of Construction: 45 TURNER ST	Owner Name: HAGGE CYRUS Y & PATRICIA	Owner Address: 225 COMMERCIAL ST	Phone: 207-775-7442
Business Name:	Contractor Name: Thaxter Company	Contractor Address: 55 Bell Street Portland	Phone: 2076539822
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Commercial	Zone: R-6 (small lot)

Past Use: Duplex	Proposed Use: Duplex - Amendment to Permit 08-0005, Drop ceiling grid, interior stair change, revise side entrance	Permit Fee: \$30.00	Cost of Work: \$0.00	CEO District: 1
Proposed Project Description: Amendment to Permit 08-0005, Drop ceiling grid, interior stair change, revise side entrance		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R-3 Type: SB	
		Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
		Signature: _____ Date: _____		

Permit Taken By: lmd	Date Applied For: 10/17/2008	Zoning Approval
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> OK w/ conditions Date: 10/23/08	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
			

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

BUILDING PERMIT INSPECTION PROCEDURES

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

to schedule your inspections as agreed upon

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

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

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

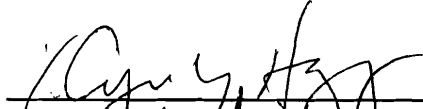
A Pre-construction Meeting will take place upon receipt of your building permit.

 X All required inspections under permit #08-0005 apply to this permit.

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

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

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



Signature of Applicant/Designee

11-17-08
Date



Signature of Inspections Official

11/14/08
Date

City of Portland, Maine - Building or Use Permit

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

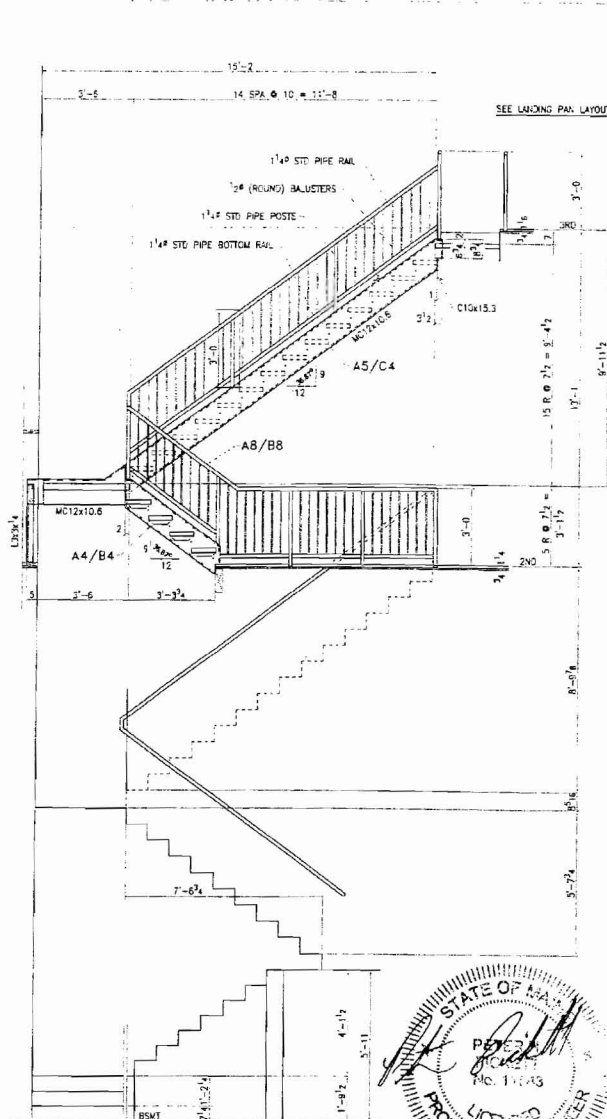
Permit No: 08-1329	Date Applied For: 10/17/2008	CBL: 014 H015001
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Location of Construction: 45 TURNER ST	Owner Name: HAGGE CYRUS Y & PATRICIA	Owner Address: 225 COMMERCIAL ST	Phone: 207-775-7442
Business Name:	Contractor Name: Thaxter Company	Contractor Address: 55 Bell Street Portland	Phone: (207) 653-9822
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Commercial	

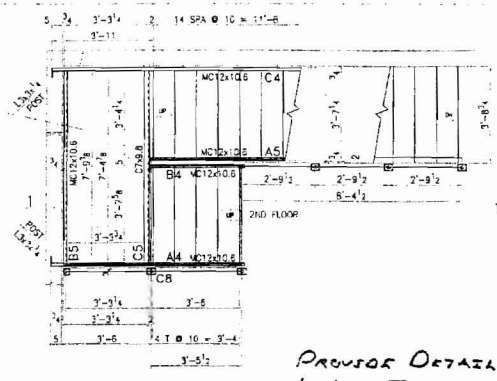
Proposed Use: Duplex - Amendment to Permit 08-0005, Drop ceiling grid, interior stair change, revise side entrance	Proposed Project Description: Amendment to Permit 08-0005, Drop ceiling grid, interior stair change, revise side entrance
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Ann Machado	Approval Date: 10/23/2008
Note: .With the change to the back entrance to the upper unit, they appear to be adding two steps on the exterior. Ok to Issue: <input checked="" type="checkbox"/> The setbacks are fine and the open space is still being met.			
1) This property shall remain a two family dwelling. Any change of use shall require a separate permit application for review and approval.			
2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.			
Dept: Building	Status: Approved with Conditions	Reviewer: Tammy Munson	Approval Date: 11/14/2008
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) All condotions issued under permit # 08-0005 apply to this permit.			

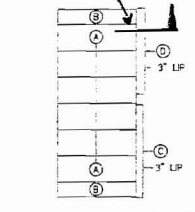
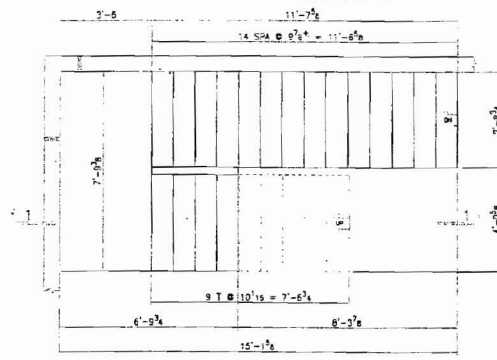
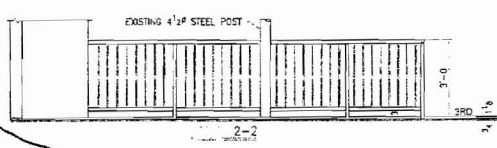
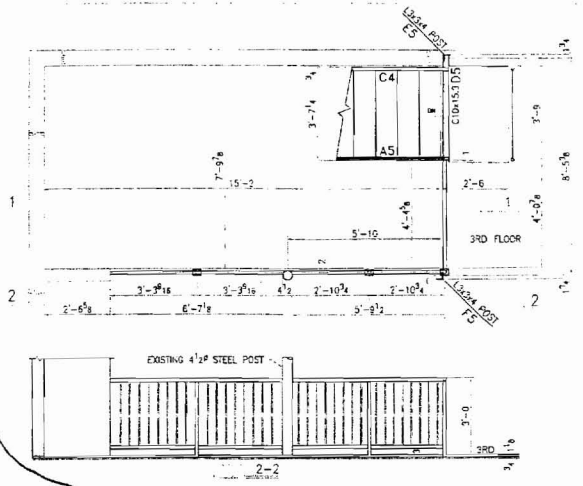
Comments: 10/28/2008-tmm: need UL listing on ceiling assembly & structural stamp on installation of steel stairs - went over w/Cyrus /tmm



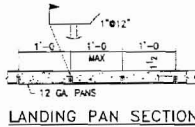
SEE LANDING PAN LAYOUT



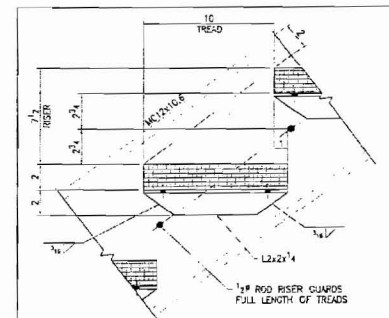
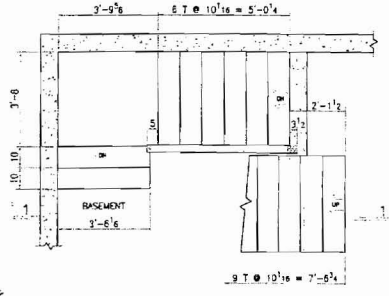
PROVIDE DETAILS
AT LIP FOR
APPROACH



LANDING PAN LAYOUT



LANDING PAN SECTION



TYPICAL TREAD & RISER DETAIL

PRINT RECORD		MATERIAL	
USE	QUAN	DATE	
QFA	4	08-27-08	
		Holes: 1/16\"/>	
		ELECTRODES: E70XX UON	
		FIELD CORR: 3/4\"/>	
		SURFACE PREP: SSPC-SP3	
		PAINT: ONE S/C PRIMER UON	
		REF. DWGS	

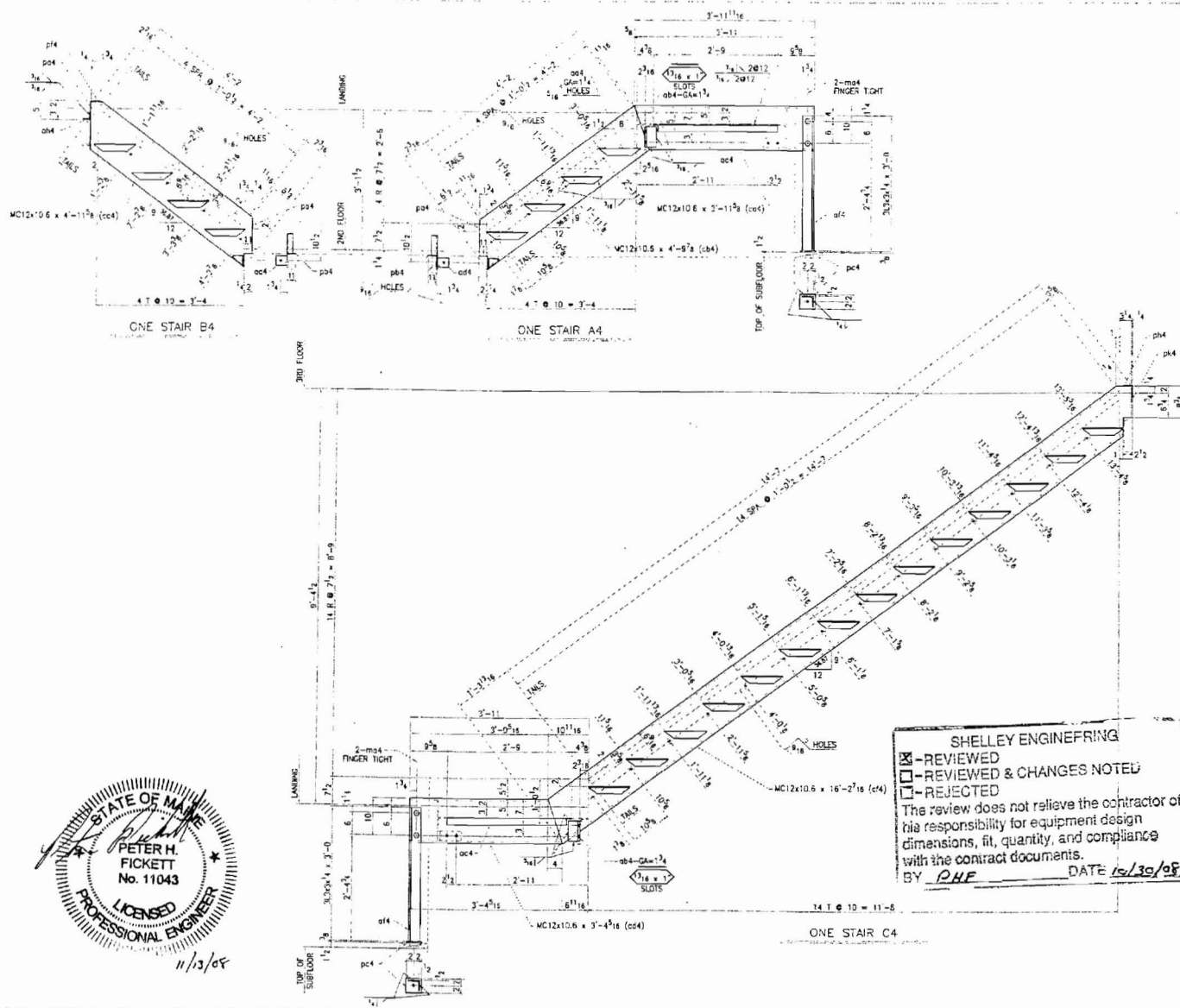
CUSTOMER: THE THAXTER CO.
JOB: 45 TURNER STREET
DESCRIPTION: STAIR LAYOUT
ARCHITECT:
ENGINEER: SHELLEY ENGINEERING, INC.

SHELLEY ENGINEERING
 - REVIEWED
 - REVIEWED & CHANGES NOTED
 - REJECTED
 The review does not relieve the contractor of his responsibility for equipment design dimensions, fit, quantity, and compliance with the contract documents.
 BY: *RHF* DATE: 10/30/08



11/13/08

LMC LIGHT IRON, INC. JOB NUMBER 2761



SHIP BILL OF MATERIAL						
MARK	QUAN	RD MK	DESCRIPTION	FT INCHES	WT	REMARKS
A4	ONE		STAR STRINGER			
	ONE	cc4	MC12x10.6	3	11.7	42.7
	ONE	cb4	MC12x10.6	4	9.7	51.1
	ONE	pb4	FB 1/2x1/2	0	9.1	1.0
	ONE	pc4	R 1/2x2	0	2	0.3
	4	oa4	L2x2x1/4	0	11	11.7 BZE
	ONE	oc4	L2x2x1/4	2	9	8.8
	ONE	ob4	L3x3x1/4	0	5.2	2.2
	ONE	od4	L3x3x1/4	0	2.2	1.0
	ONE	of4	L3x3x1/4	3	0	14.7
	ONE	pe4	R 1/2x4	0	4	1.7
	2	mp4	3/8 A325 BOLT	0	1.2	C/W N+W
			TOTAL WEIGHT:			134.7
B4	ONE		STAR STRINGER			
	ONE	cc4	MC10x6.4	4	11.7	41.7
	4	oa4	L2x2x1/4	0	11	11.7 BZE
	ONE	ob4	L2x2x1/4	0	1	0.3
	ONE	pb4	FB 1/2x1/2	0	9.1	1.0
	ONE	pc4	FB 1/2x1/2	1	0.4	1.4
	ONE	pe4	FB 1/2x1/2	0	2.4	0.3
	ONE	pb4	R 1/2x2	0	2	0.3
	ONE	od4	L3x3x1/4	0	2.2	1.0
			TOTAL WEIGHT:			56.5
C4	ONE		STAR STRINGER			
	ONE	cc4	MC12x10.6	3	4.6	35.6
	ONE	cf4	MC12x10.6	16	2.1	17.8
	ONE	pb4	FB 1/2x1/2	0	4.4	0.5
	ONE	pc4	FB 1/2x1/2	0	8.2	0.8
	14	oa4	L2x2x1/4	0	11	40.9 BZE
	ONE	oc4	L2x2x1/4	2	9	8.8
	ONE	of4	L3x3x1/4	3	0	14.7
	ONE	pe4	R 1/2x4	0	4	1.7
	2	mp4	3/8 A325 BOLT	0	1.2	C/W N+W
	ONE	ob4	L3x3x1/4	0	5.2	2.2
			TOTAL WEIGHT:			134.7

SHELLEY ENGINEERING
 - REVIEWED
 - REVIEWED & CHANGES NOTED
 - REJECTED
 The review does not relieve the contractor of
 his responsibility for equipment design
 dimensions, fit, quantity, and compliance
 with the contract documents.
 BY P.H.F. DATE 12/30/08



PRINT RECORD	MATERIAL	A500[HSS]-A992[W]-A36[R&L]
USE QUAN DATE	HOLES:	13/16" UON
OFA	ELECTRODES:	ET0XX UON
FITTINGS:	FIELD COHM:	3/4" A325N UON
SHOP:	SURFACE PREP:	SSPC-SP3
FIELD:	PAINT:	ONE S/C PRIMER UON
	REF DWGS:	

CUSTOMER: THE THAYER CO.
 JOB: 45 TURNER STREET
 DESCRIPTION: STAIR DETAILS
 ARCHITECT:
 ENGINEER: SHELLEY ENGINEERING, INC.

DRAWN BY: <u>08 09-25-08</u>	DATE: <u>09-25-08</u>	SCALE: <u>4</u>	NO. OF SHEETS: <u>4</u>
LMC LIGHT IRON, INC.			JOB NUMBER: <u>2761</u>

PROJECT MANAGEMENT, INC.

225 Commercial Street, Suite 502,

Portland, Maine 04101

T 207-775-7442

F 207-761-0922

chagge@mac.com

LETTER OF TRANSMITTAL

To:	Tammy Munson	From:	Cyrus Y. Hagge
Company:	Building Inspections	Date:	10/30/08
Re:	43-45 Turner Street		

Tammy:

Here are copies of the steel stair plans prepared by LMC Iron and reviewed and stamped by Peter Fickett of Shelley engineering.

If you have any questions or comments please feel free to contact me.

Thank you for your attention to this matter.



10/31/08

Cyrus Y. Hagge

Cyrus Y. Hagge
225 Commercial Street, Suite 502
Portland, Maine 04101-4613
207-775-7442
FAX 207-761-0922
chagge@mac.com

October 29, 2008

Tammy Munson
Building Inspections
City of Portland
386 Congress Street
Portland, Maine 04101


Re: 43-45 Turner Street

Dear Tammy:

Enclosed is a copy of an UL Listed 1 hour ceiling assembly that closely matches our application.

If you need additional information, please don't hesitate to call.

Sincerely,


Cyrus Y. Hagge

BXUV.L005
Fire Resistance Ratings - ANSI/UL 263

Page 2/1001

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

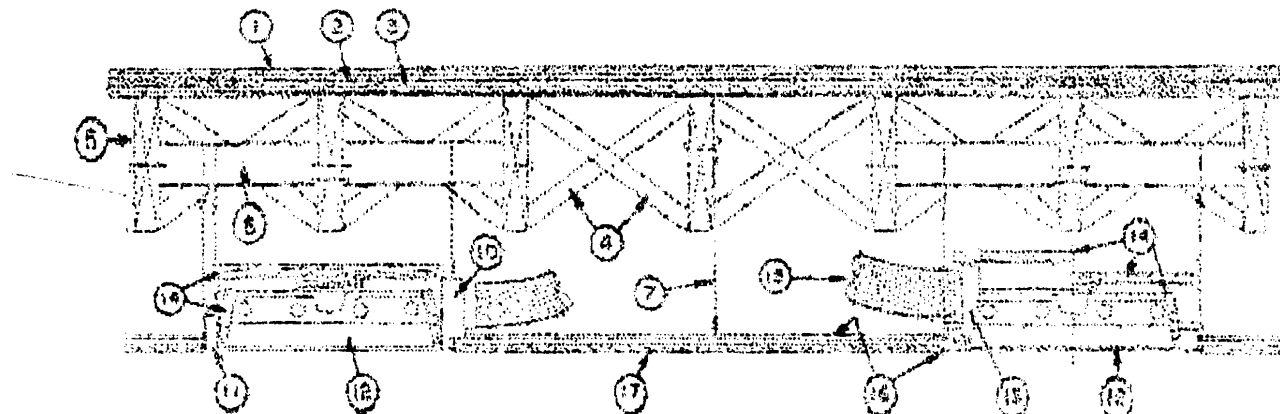
Design No. L005

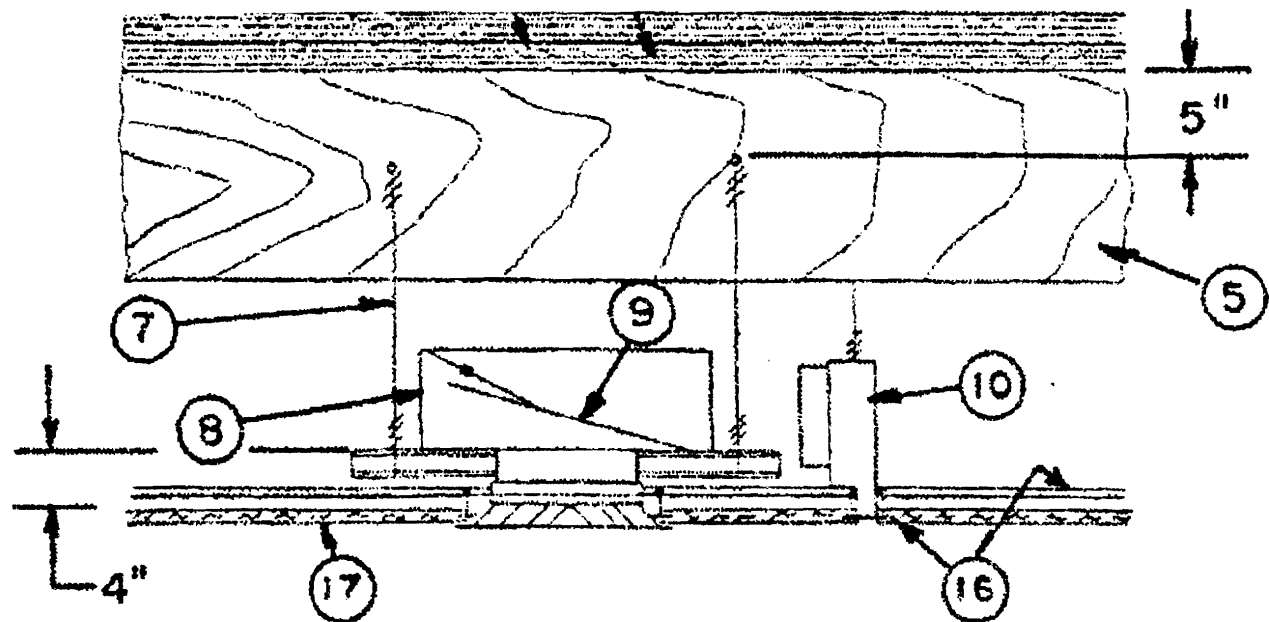
September 09, 2008

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 12 Min.

Load Restricted for Canadian Applications — See Guide BXUV7





1. **Finish Flooring** — 1 by 4 in., T&G; laid perpendicular to joists, or 19/32 in. plywood wood structural panels min grade "Underlayment". Face grain of plywood to be perpendicular to joists with joints staggered.

1A. **Alternate Finish Flooring** — The alternate finish flooring may consist of the following:

System No. 1

Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through a foam nozzle. Mix at rate of 1.4 cu ft of preformed foam to 94 lbs Type I Portland Cement and 300 lbs of sand with approximately 5.5 gal of water. Cast density of Floor Topping Mixture 100 (+ or -) 5 pcf. Min compressive strength 1000 psi. Thickness 1-1/2 in.

ELASTIZELL CORP OF AMERICA — Type FF.

System No. 2

Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through a foam nozzle. Mix at rate of 1.4 cu ft of preformed foam to 94 lbs Type I Portland Cement, 62.5 lb of Pea Gravel and 312.5 lbs of sand, with approximately 5.5 gal of water. Cast density of Floor Topping Mixture 100 (+ or -) 5 pcf. Min compressive strength 1000 psi. Thickness 1 in.

LITE-CRETE INC — Type I.

System No. 3

Floor Topping mixture* — 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand. Min compressive strength 1000 psi, thickness 1 in.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant and Firm-Fill 3310.

Floor Mat Materials* — (Optional)— Floor mat material nom 5 mm thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in.

HACKER INDUSTRIES INC — Type Quiet Qurl 55/025

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in.

HACKER INDUSTRIES INC — Type Quiet Qurl 60/040

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in.

HACKER INDUSTRIES INC — Type Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. or 10 mm floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

System No. 4

Finish Flooring-Floor Topping Mixture* — 3 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.0 to 2.1 cu ft of sand. Compressive strength to be 1000 psi min. Min thickness to be 1 in.

MAXXON CORP — Type D-C, GC, GC 2000, L-R, T-F, CT.

Floor Mat Materials* (Optional)— Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.

MAXXON CORP — Type Acousti-Mat II.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping mixture shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping mixture shall be min 1-1/2 in.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping mixture shall be min 1-1/2 in.

MAXXON CORP — Type Enkasonic 9110

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping mixture shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

System No. 5

Finish Flooring-Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mix a rate of 1.20 cu ft of preformed foam to 94 lbs Type I Portland cement and 300 lbs of sand with 5-1/2 gal of water. Cast density of floor topping mixture 95 to 105 pcf. Min compressive strength of 1000 psi. Min thickness 1-1/2 in.

CELLULAR CONCRETE L L C

System No. 6

Finish Flooring — Floor Topping Mixture* 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand. Compressive strength to be 1200 psi min. Min thickness to be 1 in.

RAPID FLOOR SYSTEMS — Type RF, RFP, RFU, RFR, Orcrete .

Floor Mat Material*(Optional) — Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.

MAXXON CORP — Type Acousti-Mat II.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping mixture shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping mixture shall be min 1-1/2 in.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping mixture shall be min 1-1/2 in.

MAXXON CORP — Type Enkasonic 9110

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping mixture shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

System No. 7

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 1000 psi min. Thickness to be 1 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM PLASTERWORKS LLC — Accu-Crete, AccuRadiant

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

ALLIED CUSTOM GYPSUM PLASTERWORKS LLC — Type AccuQuiet P80, Type AccuQuiet C40, Type AccuQuiet RSM 20, Type AccuQuiet RSM 32, Type AccuQuiet RSM 48, Type AccuQuiet RSM 64, and Type AccuQuiet RSM 120

System No. 8

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2100 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

System No. 9

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2500 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALPHA 7 GYPSUM L L C — EarthSmart Gypsum Cement Commercial Floor Topping

Floor Mat Materials* — (Optional)— Floor mat material nom 1/4 in. thick adhered to subfloor with Alpha 7 Gypsum Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

ALPHA 7 GYPSUM L L C — Type EarthSmart SCM WL.

Floor Mat Materials* — (Optional)— Floor mat material nom 6 mm thick adhered to subfloor with Alpha 7 Gypsum Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

ALPHA 7 GYPSUM L L C — Type EarthSmart SCM RT.

2. **Building Paper** — Commercial red rosin, 0.010 in. thick.

3. **Subfloor** — 1 by 6 in., T&G; laid diagonally or 15/32 in. plywood wood structural panels, min grade "C-D". Face grain of plywood to be perpendicular to joists with joints staggered.

4. **Bridging** — 1 by 3 in.

5. **Wood Joists** — 2 by 10 in., 16 in. OC, firestopped.

6. **Wood Hanger Block** — 2 by 4 in. white pine, nailed with 16d nails (two at each end) between joists where hanger wires cannot be directly suspended from joists to the suspension system.

7. **Hanger Wire** — No. 12 SWG galv steel wire, supported from 16d nails driven through wood joists, 5 in. below subfloor and bent upward at both ends for positive support. Where hanger wire locations occur between joists, hanger wire shall be supported from wood hanger block (Item 6). When the ceiling is composed of 4 by 4 ft grid modules, hanger wires located 4 ft OC along main runners. Additional hanger wires to occur at all four corners of light fixtures and at midspan of cross tees adjacent to light fixtures and air duct outlets. When the ceiling is composed of 5 by 5 ft grid modules, hanger wires spaced (1) 5 ft OC along main runners in 5 by 5 ft modules containing light fixtures, (2) at both ends and midspans of 5 ft cross tees adjacent to long sides of light fixtures, (3) 4 ft OC along main runners in 5 by 5 ft modules containing only acoustical tile, (4) 3 ft from one end of downward access tees when used to form 2 by 5 ft access, (5) at quarter points of linear air diffusers, (6) at midpoint of linear air returns. When the alternate steel framing members described under Items 16 and 16A are used, additional hanger wires are required at midpoint of the nom 5 ft long concealed tees, downward access tees and upward access tees.

8. **Air Duct** — No. 22 MSG min galv steel. Total area of duct openings not to exceed 81 sq in. per each 100 sq ft of ceiling area. Area of individual duct opening not to exceed 81 sq in. Max dimension of opening 9 in. Duct supported by 1-1/2 in. deep 16 MSG cold-rolled painted steel channels spaced 48 in. OC suspended by 12 SWG galv steel wire.

9. **Damper** — No. 13 MSG galv steel, 15 by 15 in. Protected on both surfaces with 1/16 in. thick ceramic fiber paper and held open with a **Fusible Link** (bearing the UL Listing Mark).

10. **Air Terminal Units*** — **Linear Air Diffusers** — 4 and 5 ft long units. Located in dual main runners away from light fixtures or in dual cross tee adjacent to one side of 20 in. wide light fixture. Linear air return (Item 11) to be located in dual cross tee adjacent to opposite side of 20 in. wide light fixture to complete the 2 by 4 ft or 2 by 5 ft module. Linear air diffusers attached to each web of dual main runner or dual cross tee with steel sheet-metal screws at midpoint. Each linear air diffuser supported by 12 SWG hanger wire at its quarter points. A max of 10 lineal ft of linear air diffuser is allowed per each 100 sq ft of ceiling area.

TEMPMASTER CORP — Type TBD.

11. **Air Terminal Units*** — **Linear Air Returns** — 4 and 5 ft long units. Located in dual main runner away from light fixtures or in dual cross tee adjacent to one side of 20 in. wide light fixture. Linear air diffuser (Item 10) to be located in dual cross tee adjacent to opposite side of 20 in. wide light fixture to complete the 2 by 4

ft or 2 by 5 ft module. Linear air return attached to each web of dual main runner or dual cross tee with steel sheet-metal screws at midpoint. Each linear air return supported by 12 SWG hanger wire at its midpoint. A max of 10 linear ft of linear air return is allowed per each 100 sq ft of ceiling area.

TEMPMASTER CORP — Type TBDR.

12. Fixtures, Recessed Light — (Bearing the UL Listing Mark). Fluorescent lamp type, steel housing, nom 24 by 48, 20 by 48, or 20 by 60 in. size. The 20 by 60 in. fixture has a 20 by 48 in. enclosure with 6 in. flat steel extensions at each end. The nom 24 by 48 in. size fixtures may be provided with or without vented sides to accommodate air boots (Item 13).

Fixtures spaced so their area does not exceed 14 sq ft per 100 sq ft of ceiling area. In determining the allowable fixture area the nom 20 by 60 in. fixture should be considered as having a 20 by 48 in. area. Linear air diffusers (Item 10) and linear air returns (Item 11) must be used in conjunction with 20 in. wide light fixtures. Wired in conformance with the National Electrical Code. Fixtures and ballasts must be considered for these ambient temperature conditions before installation.

13. Air Boots — No. 24 MSG galv steel air boots are installed in pairs, along both sides of nom 24 by 48 in. air supply light fixtures, and are connected by a 24 MSG galv steel crossover duct.

14. Fixture Protection — Batts and Blankets* — 1-1/4 in. thick, cut into pieces to form a five sided enclosure, rectangular or trapezoidal in cross-section, dependent upon fixture type, approx 1/2 in. longer and wider than the fixture with sufficient depth to provide at least 1-1/4 in. clearance between the fixture and the enclosure. The pieces are held together by 18 SWG tie wire. When non-air-handling or air-return light fixtures are used, a max 3/4 in. separation may be maintained between the long fixture protection side pieces and the top piece. When air supply light fixtures are used, the fixtures shall be fully enclosed except for the nom 28-1/4 sq in. opening needed to accommodate connection to air supply duct. When nom 20 by 60 in. light fixtures are used, the nom 6 in. flat extensions at each end of the fixtures to be covered with 1-1/4 in. thick batt prior to installation of the fixture protection enclosure.

THERMAFIBER INC — Type FR.

14A. Alternate Fixture Protection — Acoustical Material* — (Not shown) 5/8 in. thick, cut into pieces to form a five sided enclosure, trapezoidal in cross-section, approx 1/2 in. longer and wider than the fixture with sufficient depth to provide at least 1-1/4 in. clearance between the fixture and the enclosure. The 6 in. flat steel extensions at each end of the 20 by 60 in. light fixtures to be covered with 5/8 in. thick acoustical material prior to installation of the fixture protection enclosure. (S)=Surface perforations.

ARMSTRONG WORLD INDUSTRIES INC — Type 5/8 in. P(S).

15. Flexible Duct Connector — 6 or 8 in. diam. Any Class 0 or Class I Air Duct Connector bearing the UL Listing Mark.

16. Steel Framing Members* — 5 by 5 ft Grid Modules.

A. Main runners nom 12 ft long spaced 5 ft O.C. Dual main runners spaced 2 in. O.C. using spacer clips spaced 5 ft O.C. The spacer clips engage the main runner slots, located in line with the 5 ft long cross tees forming the 5 by 5 ft modules, and are secured in place with wire clips.

B. Cross tees nom 2, 4 or 5 ft long. 5 ft cross tees installed (1) perpendicular to main runners to form 5 by 5 ft modules (2) perpendicular to main runners to subdivide each 5 by 5 ft module containing a light fixture into a 2 by 5 ft and a 3 by 5 ft section (3) perpendicular to main runners and parallel to and 2 in. from 5 ft cross tees in the 2 by 5 ft section where 20 by 60 in. light fixtures are to be installed.

2 ft cross tee installed perpendicular to 5 ft cross tees in the 2 by 5 ft section where 20 or 24 by 48 in. light fixture is to be installed.

4 ft cross tees installed perpendicular to 2 ft cross tee and main runner and parallel to and 2 in. from the 5 ft cross tees in the 2 by 5 ft section where 20 by 48 in. light fixture is to be installed.

C. Concealed tees nom 3 or 5 ft long, spaced 12 in. O.C., located between non-accessible tile rows. The 5 ft long concealed tees are of two types, designated Cat. Nos. 179 (min 0.032 in. thick) and 195 (min 0.018 in. thick). When the 195 concealed tees are used, hanger wires are required at the midpoint of each concealed tee.

D. Downward access tee nom 5 ft long on one side of accessible tile rows for 12 by 12 in. access; on each side of accessible tile rows for 12 by 60 in. and 24 by 60 in. accesses. The downward access tees are of two types, designated Cat. Nos. 149 (min

0.024 in. thick) and 145 (min 0.020 in. thick). When the 145 downward access tees are used, hanger wires are required at the midpoint of each downward access tee.

E. Upward access tee nom 3 or 5 ft long on one side of accessible tile rows for 12 by 12 in. access; on each side of accessible tile rows for 12 by 36 in. or 12 by 60 in. access. The upward access tees are of two types, designated Cat. Nos. 185 (min 0.032 in. thick) and 187 (min 0.024 in. thick). When the 187 upward access tees are used, hanger wires are required at the midpoint of each upward access tee.

F. Downward access angle nom 1, 2 or 3 ft long.

G. Upward access angle nom 1, 2 or 3 ft long.

H. Tee splines nom 2 ft long installed perpendicular to downward access angles between tile rows in 24 by 60 in. access.

I. Ell shaped splines nom 2 ft long inserted in kerfs of tile between the 2 by 2 ft and 2 by 3 ft sections of 2 by 5 ft downward accesses.

J. Flat splines, nom 12 by 3/4 in., inserted between adjacent tiles where they are otherwise unsupported by suspension system.

CHICAGO METALLIC CORP — Types 1250, 1850.

16A. Alternate Steel Framing Members* — 5 by 5 ft Grid Modules. Same as above system except all nom 5 ft long concealed tees, downward access tees, and upward access tees (Items C, D and E above, respectively) supported by 12 SWG hanger wire at the midpoints.

CHICAGO METALLIC CORP — Type 250.

16B. Alternate Steel Framing Members* — 4 by 4 ft Grid Modules.

Suspension system using 12 by 12 in. kerfed-edge tile:

A. Main runners nom 12 ft long spaced 4 ft OC.

B. Cross tees nom 4 ft long installed (1) perpendicular to main runners to form 4 by 4 ft modules (2) perpendicular to main runners to subdivide each 4 by 4 ft module containing a light fixture into two separate 2 by 4 ft sections.

C. Concealed tees nom 2 or 4 ft long, spaced 12 in. OC located between nonaccessible tile rows.

D. Downward access tee nom 4 ft long on one side of accessible tile rows for 12 by 48 in. and 24 by 48 in. accesses.

E. Upward access tee nom 2 or 4 ft long on one side of accessible tile rows for 12 by 12 in. access; on each side of accessible tile rows for 12 by 24 in. or 12 by 48 in. accesses.

F. Downward access angle nom 1 or 2 ft long.

G. Upward access angle nom 1 or 2 ft long.

H. Tee splines nom 2 ft long installed perpendicular to downward access angles between tile rows in 24 by 48 in. access.

I. L-shaped splines nom 2 ft long inserted in kerfs of tile between 2 by 2 ft sections of 2 by 4 ft downward accesses.

J. Flat splines, nom 12 by 3/4 in., inserted between adjacent tiles where they are otherwise unsupported by suspension system.

CHICAGO METALLIC CORP — Types 250, 1250, 1850.

Suspension system using 12 by 24 in. kerfed-edge tile — Same as 12 by 12 in. system except only one flat spline installed between main runners perpendicular to cross tees. Tile length parallel with cross tees.

CHICAGO METALLIC CORP — Types 250, 1250, 1850.

17. Acoustical Material* — Nom 12 by 12 in. and 12 by 24 in. tile. Nom 12 by 12 in. tiles used in 5 by 5 ft

grid modules. Tile used in 24 by 60 in. downward access may be either 12 by 12 in. or 12 by 24 in. kerfed-edge tile.

Access tiles to be provided with hold-down splines, min 2 in. long, inserted in kerf of free edge prior to placement and slid along kerf to engage adjacent tile kerf after placement. Border panels supported at walls by 24 MSG steel channel, 2 in. deep with 1 in. flanges. Wall springs are installed between wall channel and border tile to minimize gaps between tiles. (S)=surface perforations.

ARMSTRONG WORLD INDUSTRIES INC - Type 5/8 or 3/4 in. P(S) 12x12 or 24 in.; Type 3/4 in. BF(S) 12x12 or 24 in.

*Bearing the UL Classification Mark

Last Updated on: 2008-09-09

Questions?

Notice of Disclaimer

Page Top

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General Building Permit Application

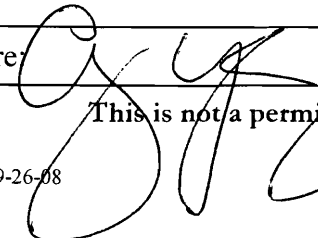
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction:		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Applicant * must be owner, Lessee or Buyer * Name <u>CYRUS HAGGE</u> Address <u>225 Commercial St</u> City, State & Zip <u>Portland, ME 04101</u>	Telephone: <u>207 775-7442</u>
Lessee/DBA (If Applicable) <u>OCT 17 2008</u>	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>0</u> C of O Fee: \$ _____ Total Fee: \$ <u>30-</u>
Current legal use (i.e. single family) _____ Number of Residential Units _____ If vacant, what was the previous use? _____ Proposed Specific use: _____ Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>AMENDMENT to EXISTING permit. Drop ceiling grid details, Interior Stair Change, NEW SH REVISED SIDE ENTRANCE # 08-0005</u>		
Contractor's name: <u>THORNTON CO</u> Address: <u>Bell St</u> City, State & Zip <u>Portland, ME 04103</u> Telephone: <u>878 5553</u> Who should we contact when the permit is ready: <u>Cyrus Hagge</u> Telephone: <u>775-7442</u> Mailing address: <u>225 Commercial St Port 04101</u>		

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

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

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

Signature:  Date: 10-17-08

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

Cyrus Y. Hagge
225 Commercial Street, Suite 502
Portland, Maine 04101-4613
207-775-7442
FAX 207-761-0922
chagge@mac.com

October 16, 2008

Tammy Munson
Building Inspections
City of Portland
Congress Street
Portland, Maine 04101

Re: 43-45 Turner Street Building Permit Amendments

Dear Tammy:

Please find the enclosed amendments to the building permit

1. The original section of the house submitted in the initial permit application shows a dropped ceiling on the first and second floors. I am resubmitting that section and literature from Armstrong Drywall Grid Systems. With two layers of 5/8" fire code drywall on the first floor ceiling between the apartment and the upper dwelling unit we maintain the 1 hour fire rating. Please see attachment A.
2. The back entrance to the upper unit has been modified to include a curved glass block wall. Please see attachment B.
3. The stairs between the 2nd and 3rd floors has been changed to a steel stairs with steel handrails. Please review the attached shop drawing by LMC Light Iron, Inc. The layout does not change from the original submittals. See Attachment C.

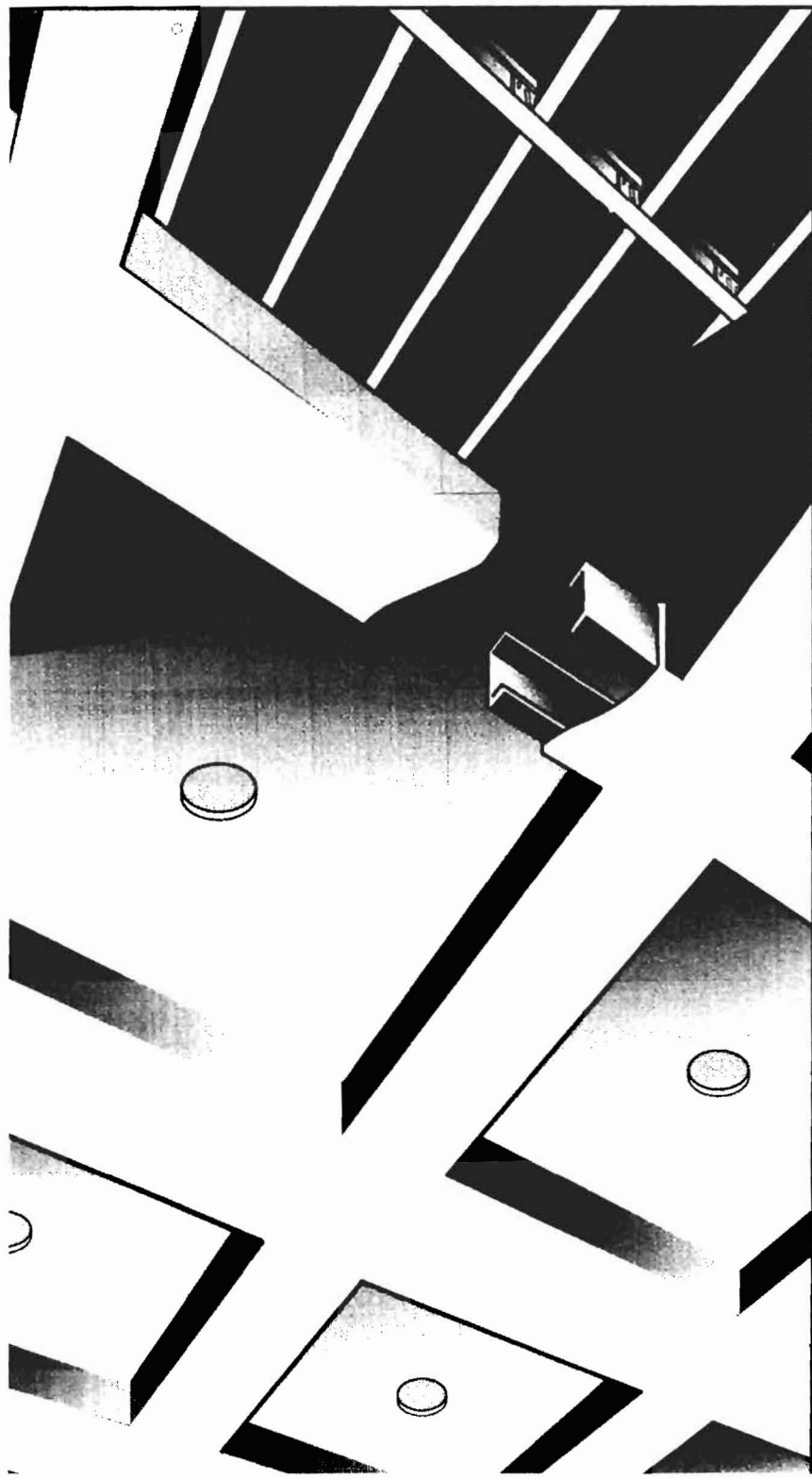
If you need additional information, please don't hesitate to call.

Sincerely,



CEILING SYSTEMS

[Between us, ideas become reality.]®



TECHNICAL GUIDE Drywall Grid Systems

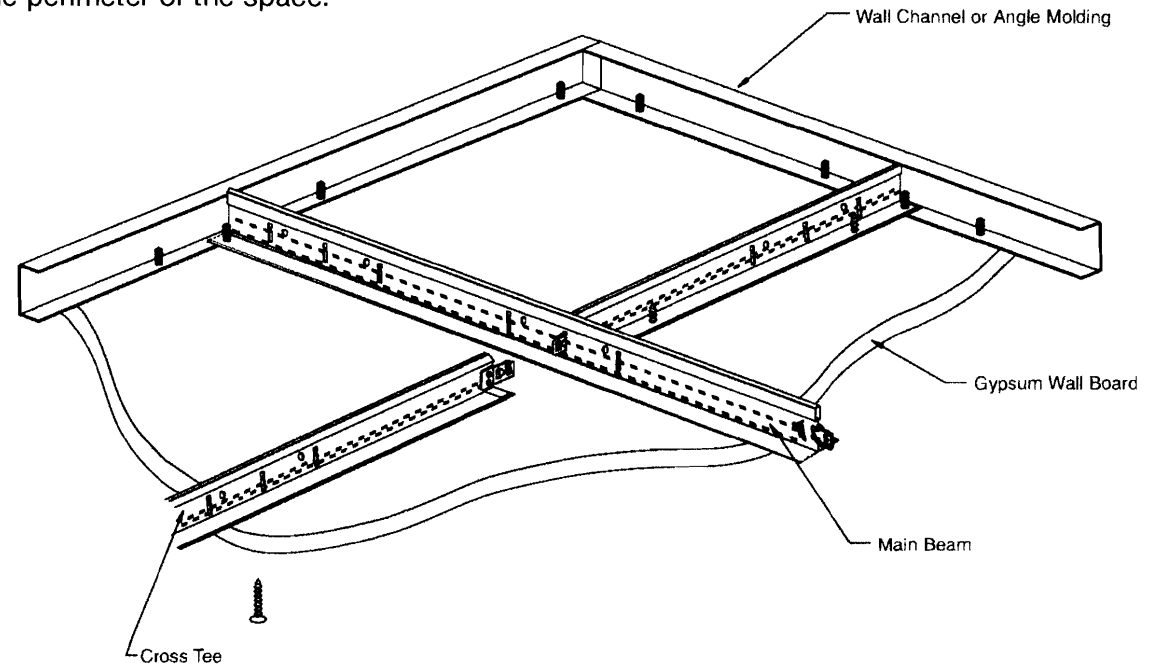
DRYWALL Grid Systems

Hanging and Framing
Flat Ceilings



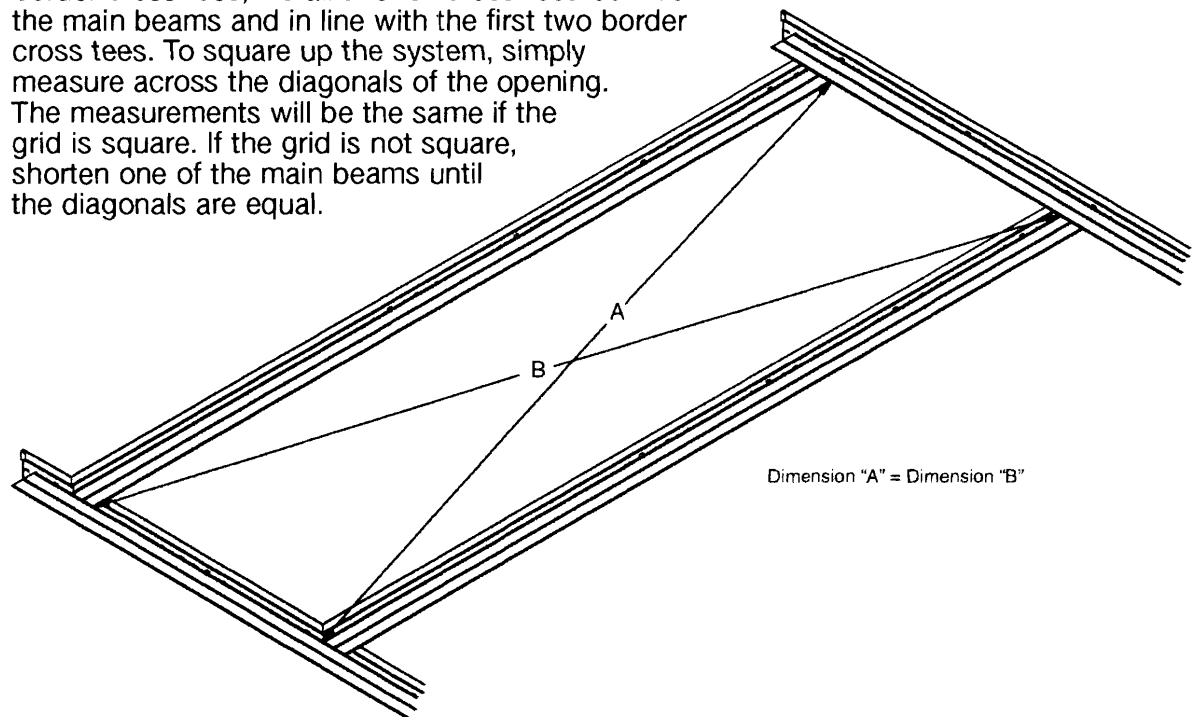
System Framing

The grid system is made up of main beams and cross tees that are suspended by hanger wires to the structural deck. Sections of main beams lock together end-to-end while cross tees span between the main beams. The ends of the main beams and cross tees rest on the wall channel or angle molding that run around the perimeter of the space.



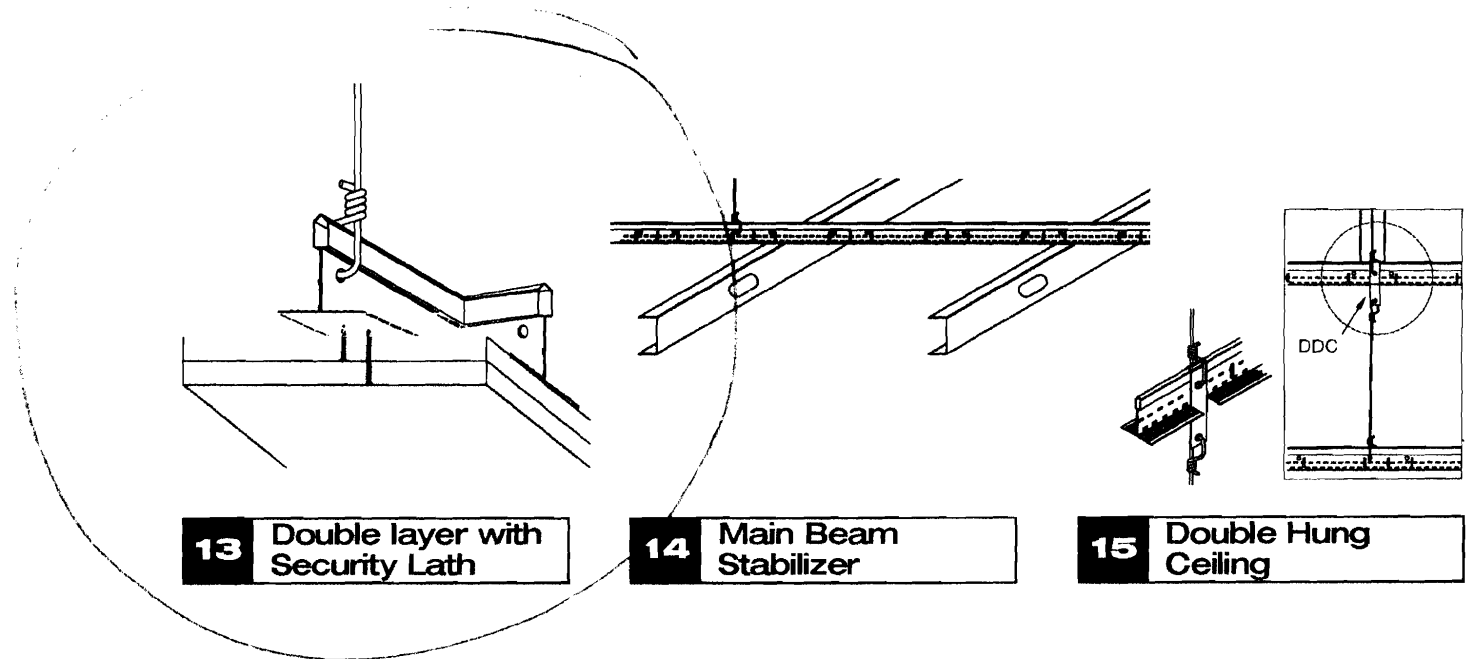
Squaring up the System

Once you've hung your first two main beams and border cross tees, install two full cross tees between the main beams and in line with the first two border cross tees. To square up the system, simply measure across the diagonals of the opening. The measurements will be the same if the grid is square. If the grid is not square, shorten one of the main beams until the diagonals are equal.



SUSPENDED DRYWALL GRID SYSTEM DETAILS

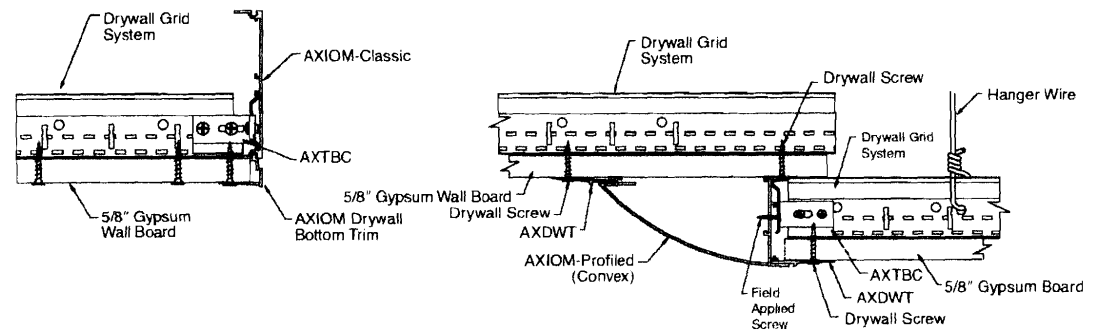
DrywallGridSystem



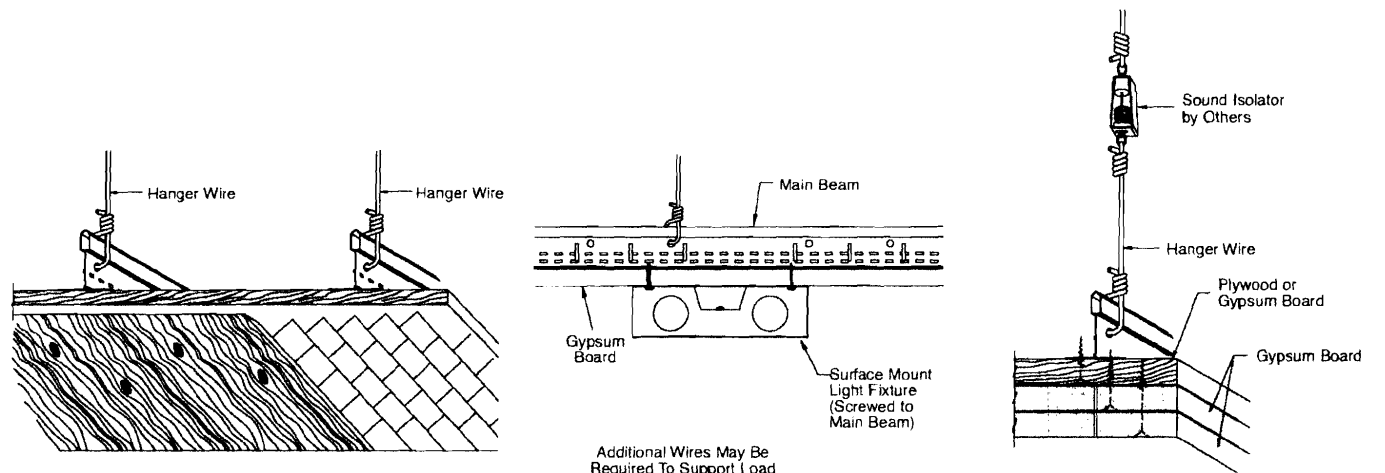
13 Double layer with Security Lath

14 Main Beam Stabilizer

15 Double Hung Ceiling



17 AXIOM™ Perimeter Trim



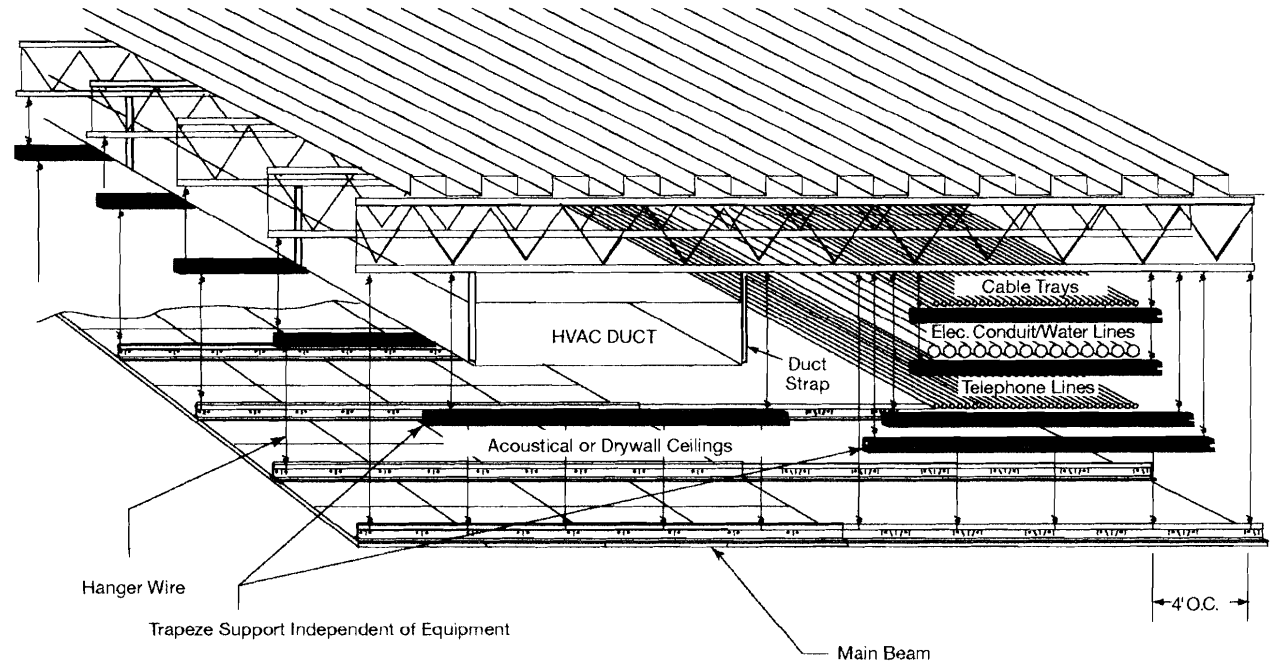
19 Alternate Finishes

20 Surface Mount Fixture

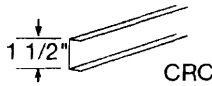
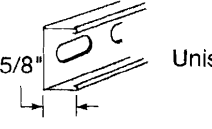
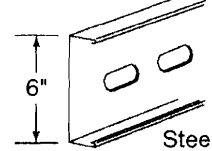
21 Triple Layer with Sound Isolators

Trapeze Supported Loads

Installing a trapeze is a technique to support multiple hanger wires under obstructions, such as trunk lines, cable trays or other objects in the plenum. In some cases the trapeze may effect the ceiling height and must be kept small. In other cases steel studs may be used to span the distance required.



Trapeze Loading per ASTM C 636

Members	Gauge	0' - 4'	4' - 8'	8' - 12'	12' - 16'	16' - 20'
 1 1/2" CRC	16	1 1/2" CRC	NA	NA	NA	NA
 1 5/8" Unistrut	16	←	←	←	P-2000	NA
	14	←	←	←	←	P-1100
	12	←	←	←	←	P-1000
 6" Steel Stud	20	←	←	6CSJ-20 Bridge Mid	NA	NA
	18	←	←	←	6CSJ-18 Bridge Mid	NA
	16	←	←	←	←	6CSJ-16 Bridge Mid

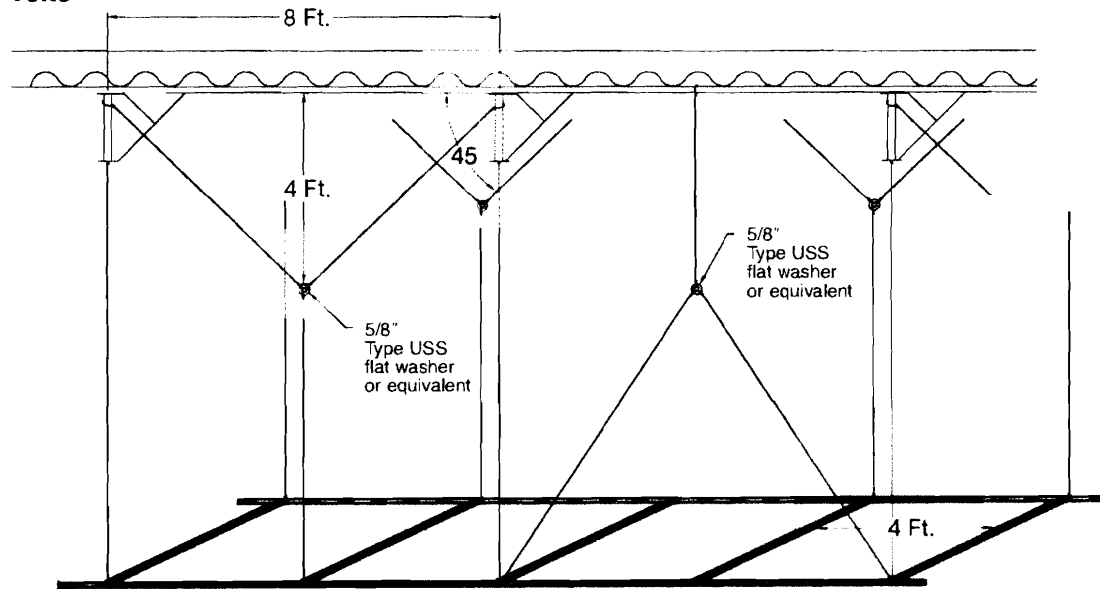
NOTE: Bridging is required at mid span when steel stud members are greater than 8' - 0" in length. Bridging may be 1 1/2" CRC or main runner screw attached to hold vertical and prevent cocking. No wire is required at mid span.

Yoke Wire Hung Ceilings

Another method to install hanger wires around an object in the plenum is to utilize a single or double yoke wire technique.

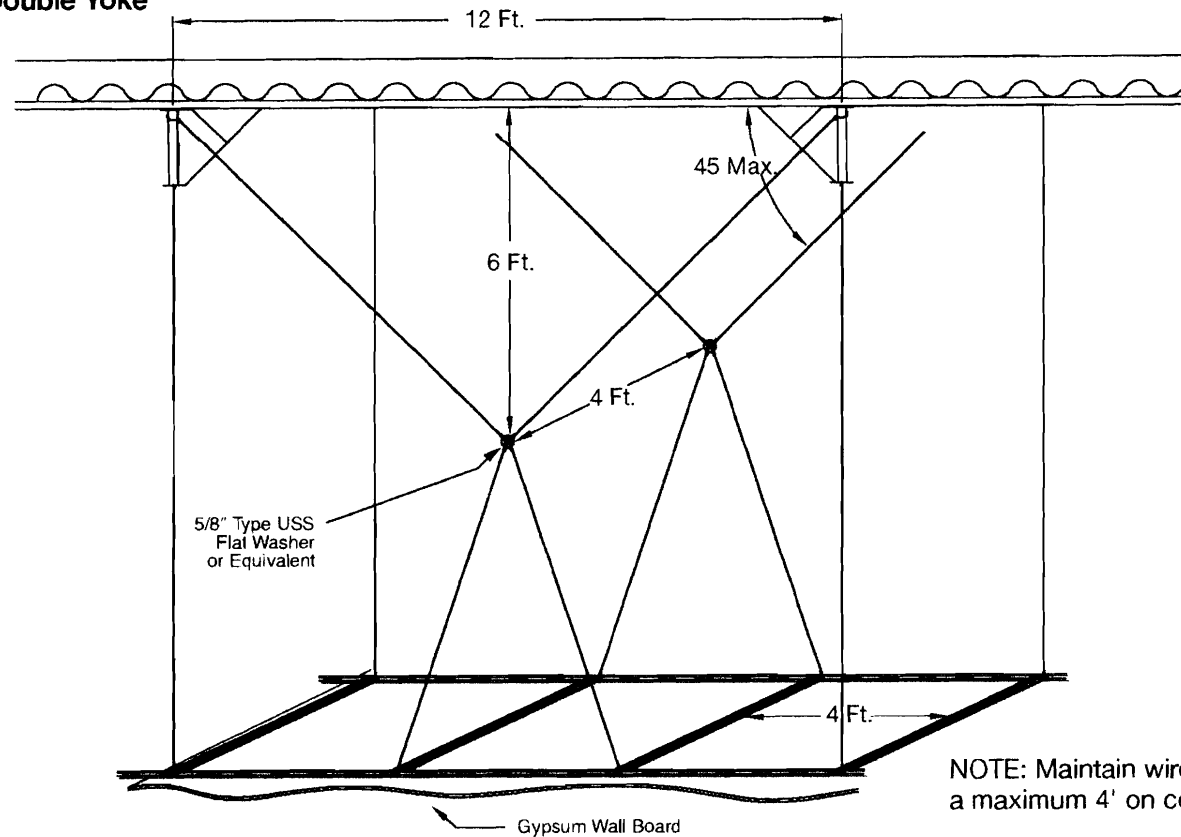
Rule: to form the 45 degree angle, the vertical location of the tension ring is always half the distance of the span at the structure.

Single Yoke



NOTE: Maintain wire spacing at a maximum 4' on center.

Double Yoke



NOTE: Maintain wire spacing at a maximum 4' on center.

Wire Loading

9 Gauge Wire Breaking Strength and Technical Data

9 Gauge Wire
Diameter .148"
Galvanized Steel
**740 lbs.
Breaking Point**

3 Turns in 3"
Per ASTM C 636

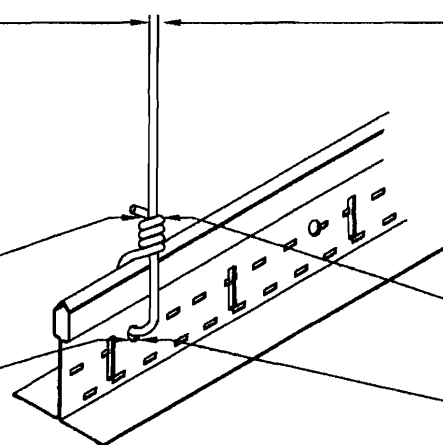
**500 lbs. Pullout —
Hanger Wire Hole**

12 Gauge Wire Breaking Strength and Technical Data

12 Gauge Wire
Diameter .105"
Galvanized Steel
**375 lbs.
Breaking Point**

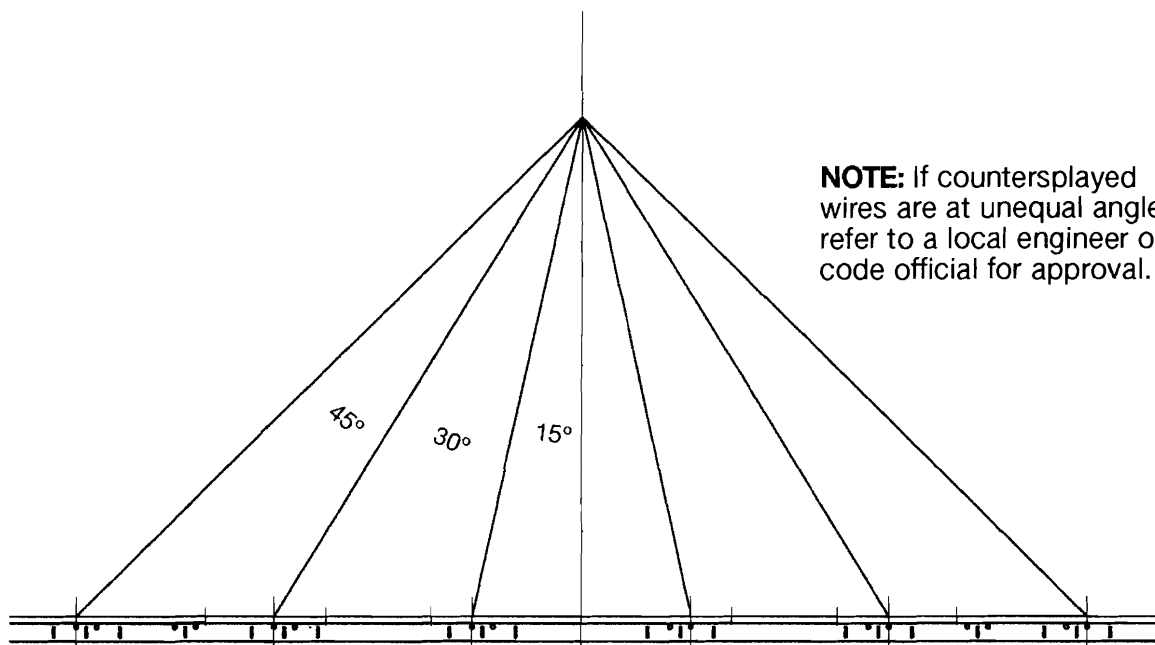
3 Turns in 3"
Per ASTM C 636

**500 lbs. Pullout —
Hanger Wire Hole**



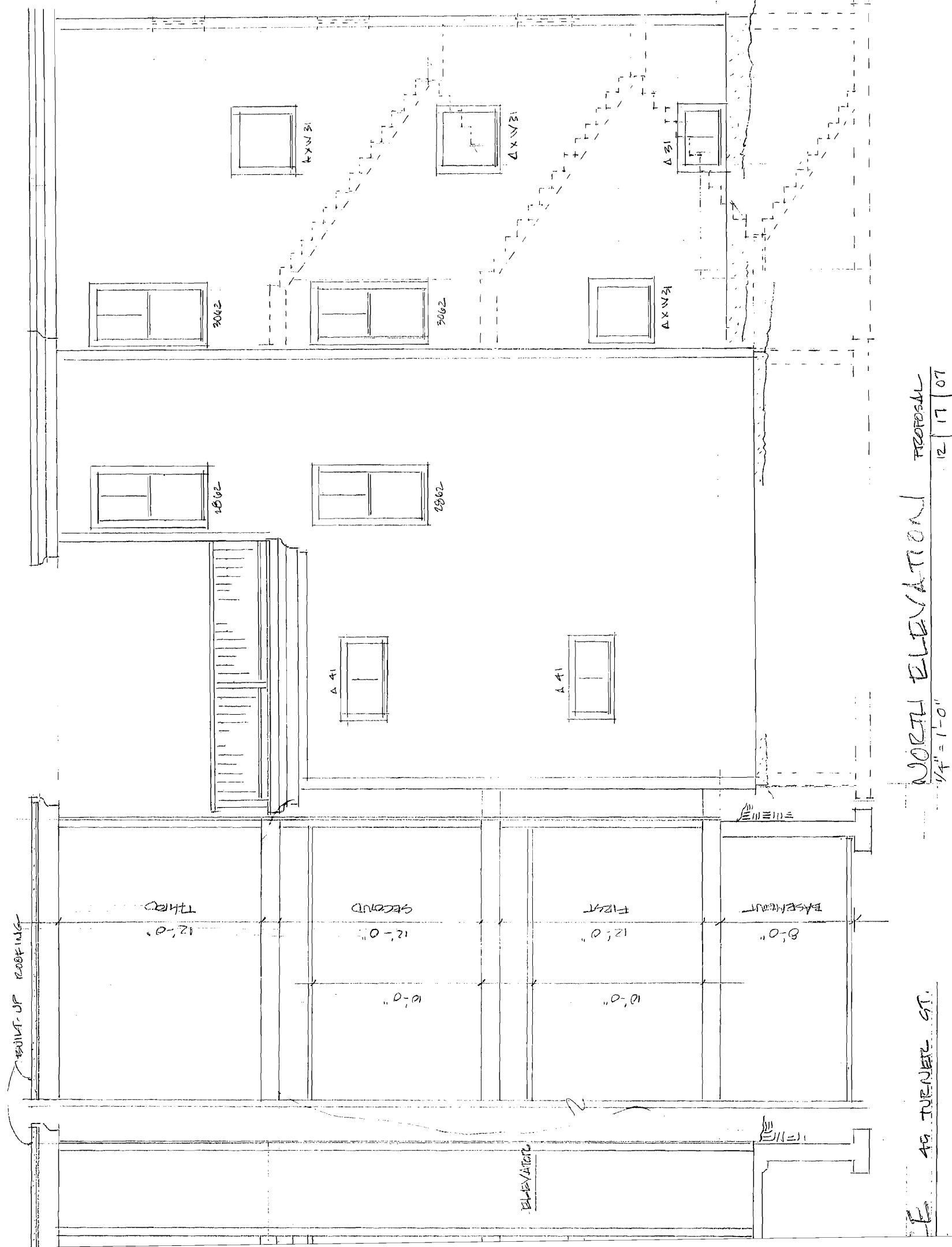
Counter Splayed Wires

Objects in the plenum may obstruct placement of vertical hanger wires and require splayed wires to support the load. When this occurs, a second counter splayed wire must be added. Install counter splayed wires at an angle equal and opposite the first wire, but not greater than 45° from vertical. The load capacity of the main beam remains unchanged (refer to ASTM C 636).



NOTE: If countersplayed wires are at unequal angles, refer to a local engineer or code official for approval.

ATTACHMENT A



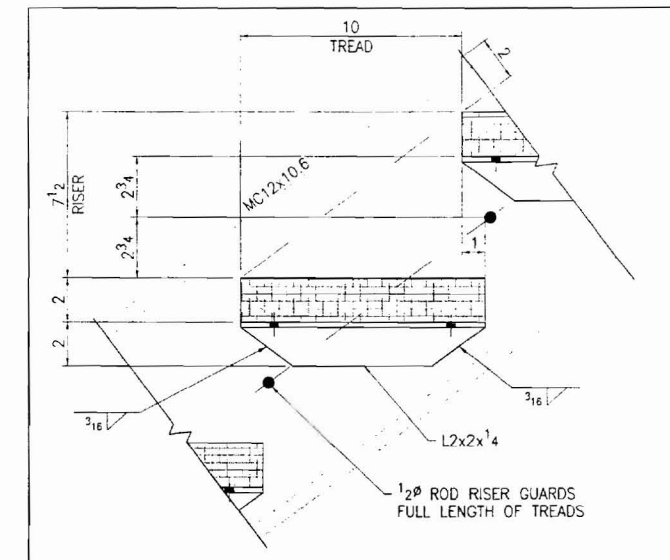
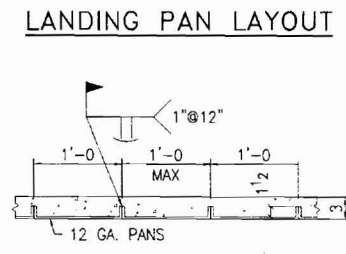
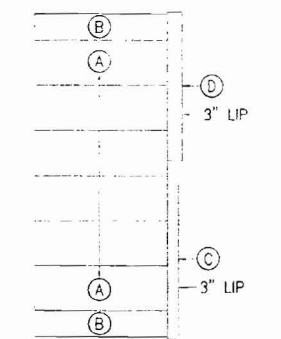
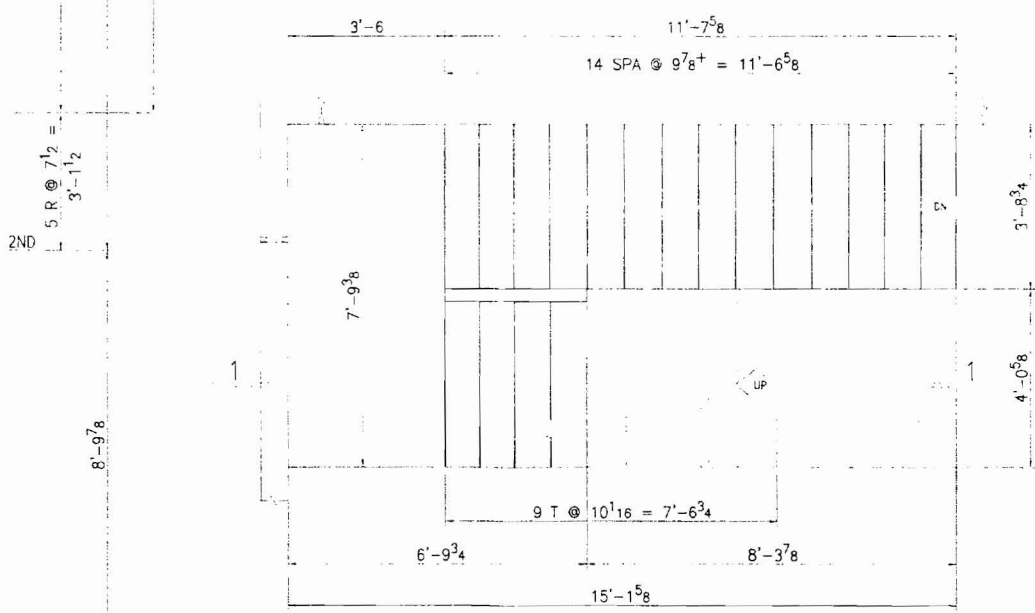
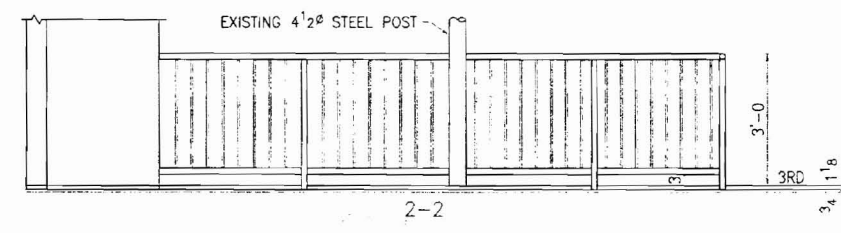
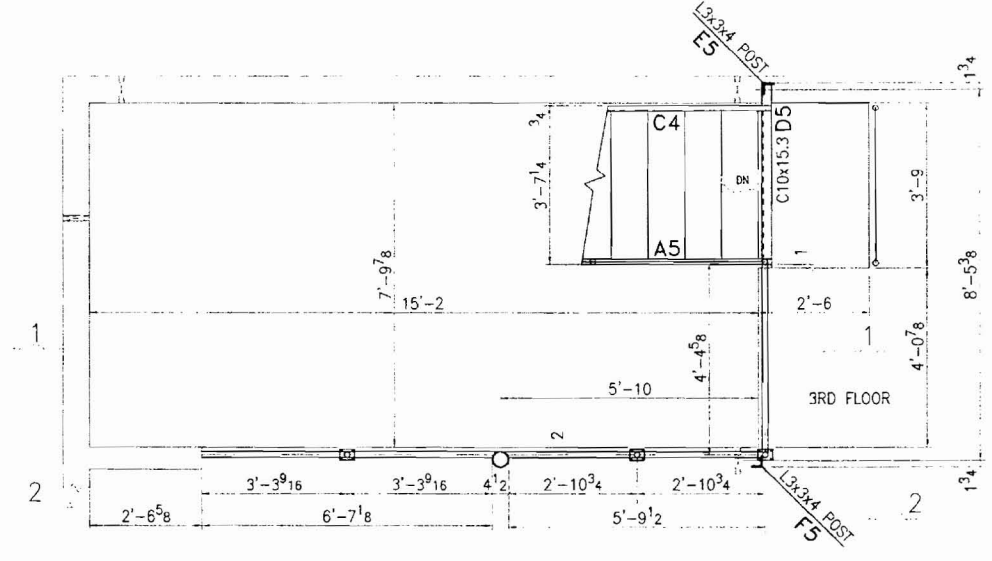
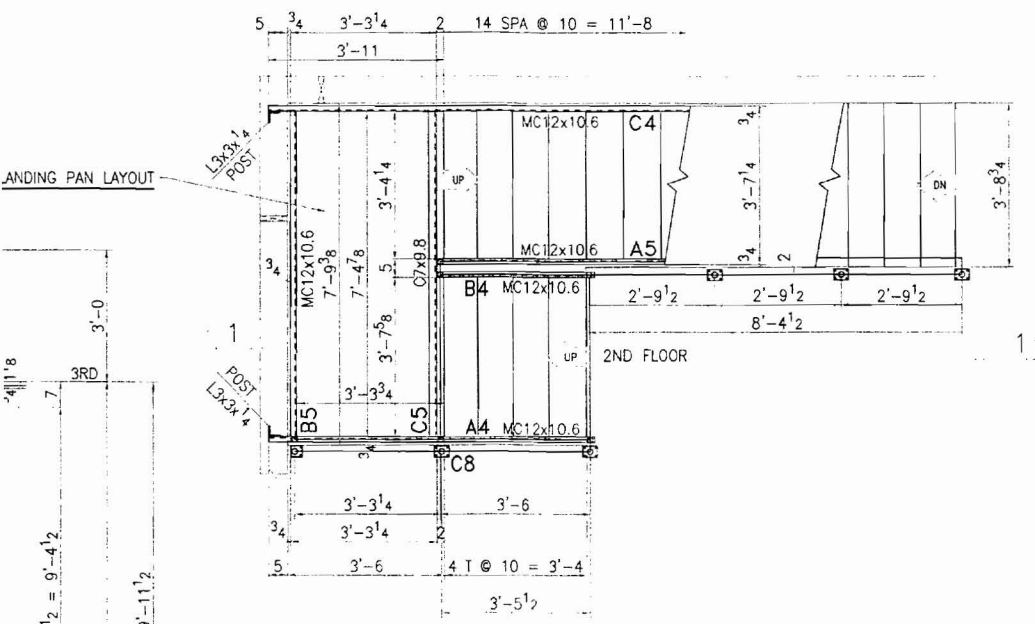
NORTH ELEVATION 12 | 17 | 07

E 49 TURNER ST.



LELAND HULST
 ARCHITECTURAL SERVICES
 278 Spring Street / Portland, Maine 04102 / (207) 773-2843

ATTENTION



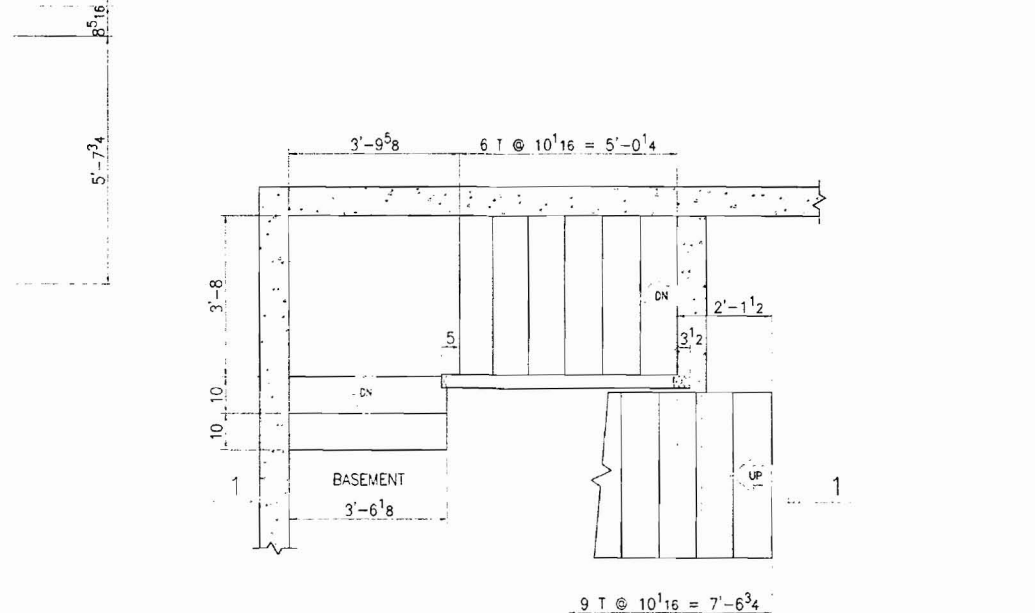
TYPICAL TREAD & RISER DETAIL

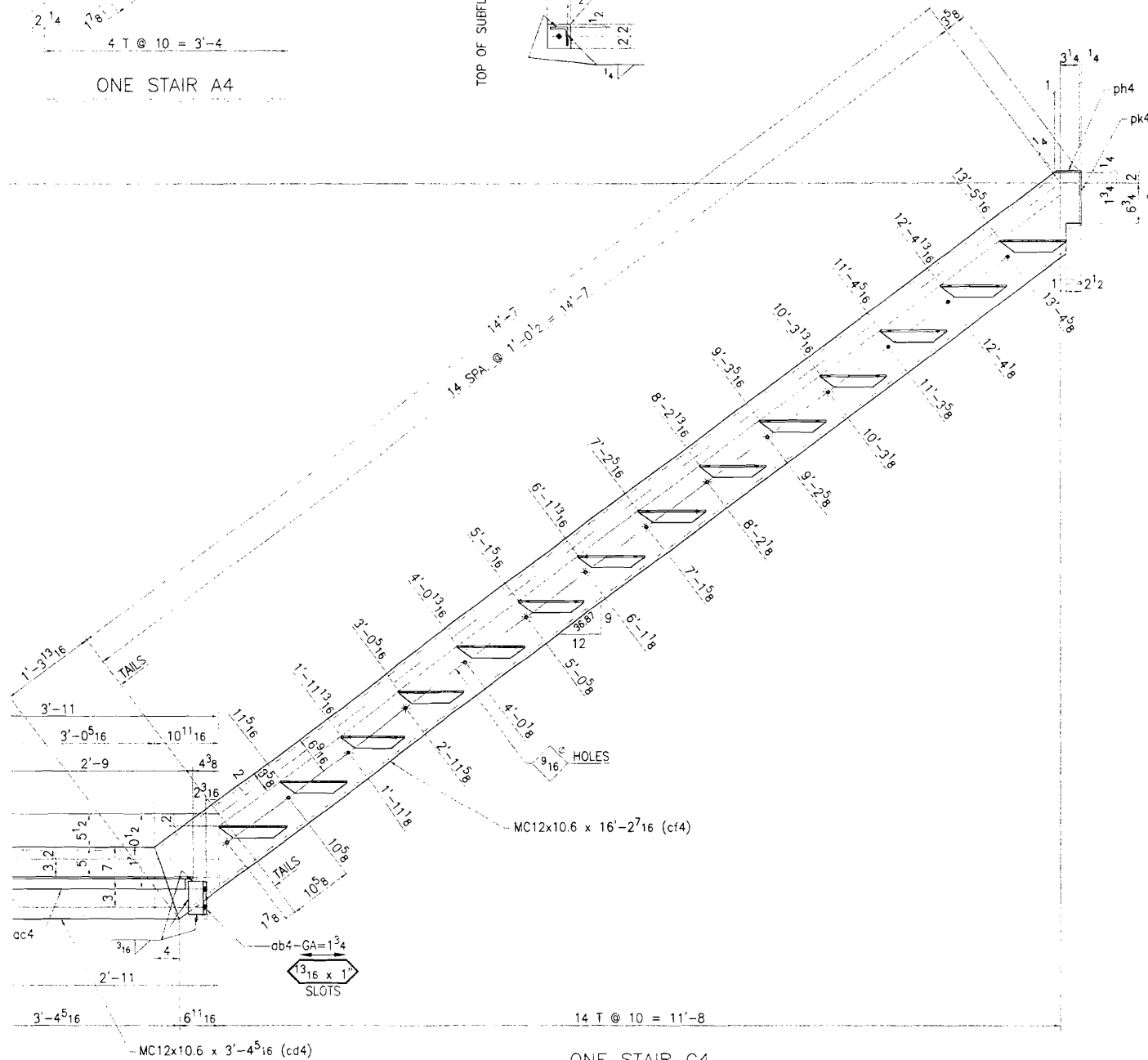
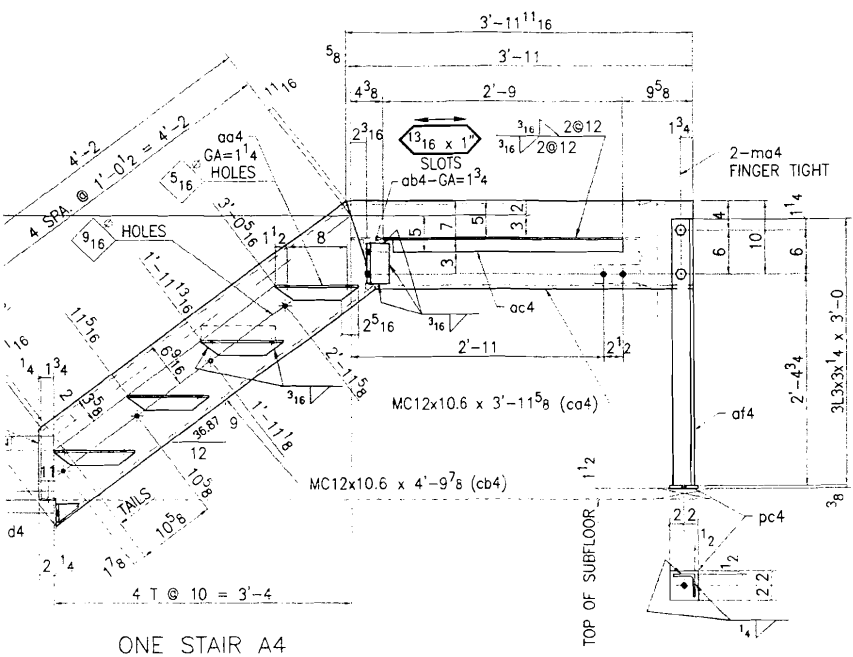
PRINT RECORD			MATERIAL: A500[HSS]-A992[W]-A36[R&L]
USE	QUAN	DATE	HOLES: 13/16 UON
OFA	4	08-27-08	ELECTRODES: E70XX UON
			FIELD CONN: 3/4 A325N UON
SHOP			SURFACE PREP: SSPC-SP3
			PAINT: ONE S/C PRIMER UON
FIELD			REF. DWGS:

CUSTOMER: THE THAXTER CO.
 JOB: 45 TURNER STREET
 DESCRIPTION: STAIR LAYOUT
 ARCHITECT:
 ENGINEER: SHELLEY ENGINEERING, INC.

DRAWN BY: GRB 08-22-08 CHKD BY: DRAWING NUMBER: E1 REVISION NUMBER:

LMC LIGHT IRON, INC.
 E RANGE ROAD - P.O. BOX 521
 LIME ROCK, MAINE 04048
 JOB NUMBER: **2761**





SHIP		BILL OF MATERIAL					
MARK	QUAN	PC MK	DESCRIPTION	FT	INCHES	WT	REMARKS
A4	ONE		STAIR STRINGER				
	ONE	ca4	MC12x10.6	3	11 5/8	42.1	
	ONE	cb4	MC12x10.6	4	9 7/8	51.1	
	ONE	pa4	FB 1/4x1 1/2	0	9 11/16	1.0	
	ONE	pb4	R 1/4x2	0	2	0.3	
	4	aa4	L2x2x1/4	0	11	11.7	B2E
	ONE	ac4	L2x2x1/4	2	9	8.8	
	ONE	ab4	L3x3x1/4	0	5 1/2	2.2	
	ONE	ad4	L3x3x1/4	0	2 1/2	1.0	
	ONE	af4	L3x3x1/4	3	0	14.7	
	ONE	pc4	R 3/8x4	0	4	1.7	
	2	ma4	3/4 A325 BOLT	0	1 3/4	1.2	C/W N+W
TOTAL WEIGHT:						134.7	
B4	ONE		STAIR STRINGER				
	ONE	cc4	MC10x8.4	4	11 5/8	41.7	
	4	aa4	L2x2x1/4	0	11	11.7	B2E
	ONE	ah4	L2x2x1/4	0	1	0.3	
	ONE	pa4	FB 1/4x1 1/2	0	9 11/16	1.0	
	ONE	pd4	FB 1/4x1 1/2	1	0 3/4	1.4	
	ONE	pf4	FB 1/4x1 1/2	0	2 3/4	0.3	
	ONE	pb4	R 1/4x2	0	2	0.3	
	ONE	ad4	L3x3x1/4	0	2 1/2	1.0	
TOTAL WEIGHT:						56.6	
C4	ONE		STAIR STRINGER				
	ONE	cd4	MC12x10.6	3	4 5/16	35.6	
	ONE	cf4	MC12x10.6	16	2 7/16	171.8	
	ONE	ph4	FB 1/4x1 1/2	0	4 1/4	0.5	
	ONE	pk4	FB 1/4x1 1/2	0	8 1/2	0.8	
	14	aa4	L2x2x1/4	0	11	40.9	B2E
	ONE	ac4	L2x2x1/4	2	9	8.8	
	ONE	af4	L3x3x1/4	3	0	14.7	
	ONE	pc4	R 3/8x4	0	4	1.7	
	2	ma4	3/4 A325 BOLT	0	1 3/4	1.2	C/W N+W
	ONE	ab4	L3x3x1/4	0	5 1/2	2.2	

PRINT RECORD			MATERIAL: A500[HSS]-A992[W]-A36[R&L]			
USE	QUAN	DATE	HOLES: 13 1/16 UON			
OFA			ELECTRODES: E70XX UON			
FITTINGS			FIELD CONN: 3/4 A325N UON			
SHOP			SURFACE PREP: SSPC-SP3			
			PAINT: ONE S/C PRIMER UON			
FIELD			REF. DWGS:			

CUSTOMER: THE THAXTER CO.

JOB: 45 TURNER STREET

DESCRIPTION: STAIR DETAILS

ARCHITECT:

ENGINEER: SHELLEY ENGINEERING, INC.

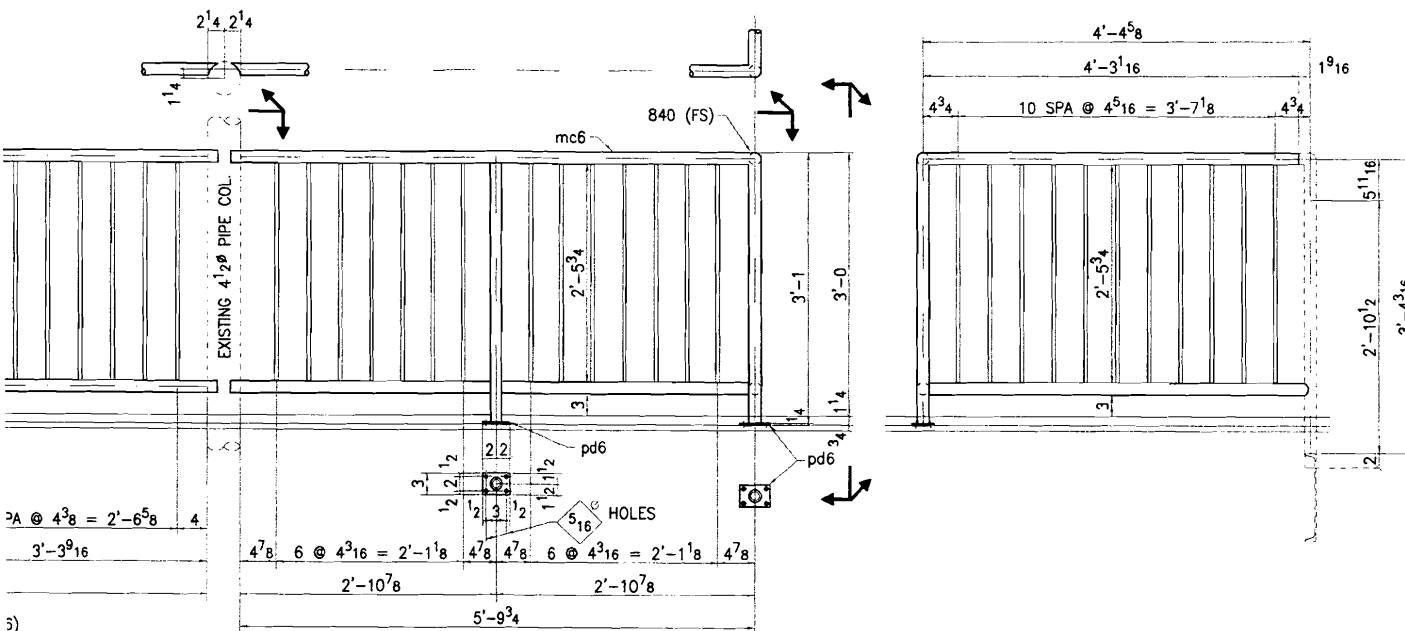
DRAWN BY	CRB 09-25-08	CHECKED BY		DRAWING NUMBER	4	REVISION NUMBER	
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LMC LIGHT IRON, INC.

E RANGE ROAD - P.O. BOX 521
MERRICK, MASSINE 01468

JOB NUMBER

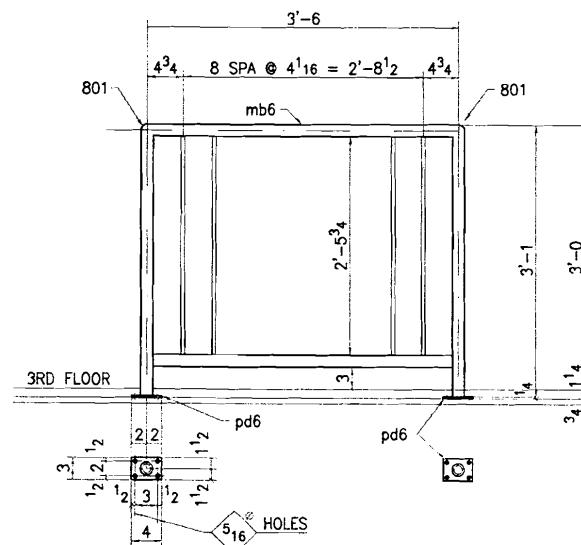
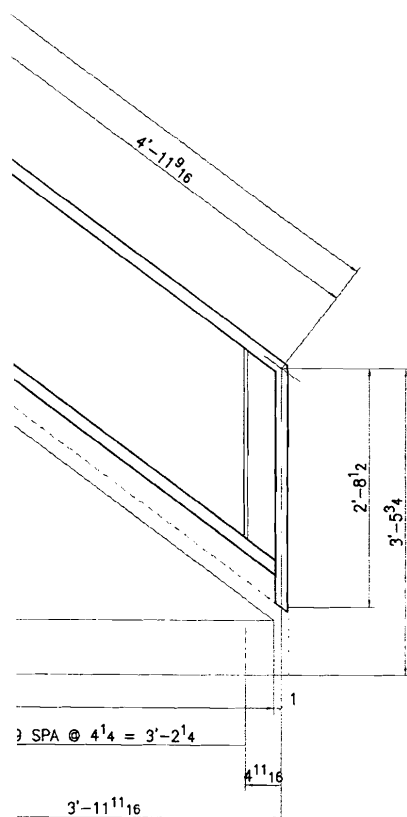
2761



1 1/4" STD PIPE x 30'-0" (mc6)
 PICKETS - 1/2" ROD x 45'-0" (pd6)
 ONE HANDRAIL C6

3)
 (pd6)

6



1 1/4" STD PIPE x 13'-0" (mb7)
 PICKETS - 1/2" ROD x 23'-0" (pb7)

ONE HANDRAIL B7

SHIP		BILL OF MATERIAL							
LINE	MARK	QUAN	PC	MK	DESCRIPTION	FT	INCHES	WT	REMARKS
1	A7	ONE			HANDRAIL				
2		ONE	ma7		1 1/4" STD PIPE	42	0	95.3	LIN/FT
3		ONE	pa7		1/2" ROD	65	0	43.4	LIN/FT
4									
5									
6	B7	ONE			HANDRAIL				
7		ONE	mb7		1 1/4" STD PIPE	13	0	29.5	LIN/FT
8		ONE	pb7		1/2" ROD	23	0	15.4	LIN/FT
9		2	pd6		R 1/4X3	0	4	1.7	
10		2	801		WAG 1 1/4 ELL 90°				1/8" RADIUS
11									
12									
13	C7	ONE			HANDRAIL				
14		ONE	mc7		1 1/4" STD PIPE	30	0	68.1	LIN/FT
15		ONE	pc7		1/2" ROD	45	0	30.0	LIN/FT
16		2	pd6		R 1/4X3	0	4	1.7	
17		ONE	840		WAG 1 1/4 ELL 90°				1/8" RADIUS W/SO
18									
19									
20	D7	ONE			HANDRAIL				
21		ONE	md7		1 1/4" STD PIPE	17	0	38.6	LIN/FT
22		ONE	pd7		1/2" ROD	40	0	26.7	LIN/FT
23		ONE	pd6		R 1/4X3	0	4	0.8	
24		2	627A		3 HOLE FLANGE				WAGNER
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

PRINT RECORD

USE	QUAN	DATE	MATERIAL: A53 - A36
OFA			HOLES: AS NOTED
			ELECTRODES: E70XX UON
FITTINGS:			FIELD CONN: AS NOTED
SHOP			SURFACE PREP: SSPC-SP3
			PAINT: ONE S/C PRIMER UON
FIELD			REF. DWGS:

CUSTOMER: THE THAXTER CO.

JOB: 45 TURNER STREET

DESCRIPTION: RAIL DETAILS

ARCHITECT:

ENGINEER: SHELLEY ENGINEERING, INC.

DRAWN BY GRB 10-01-08 CHKD BY DRAWING NUMBER 7 REVISION NUMBER

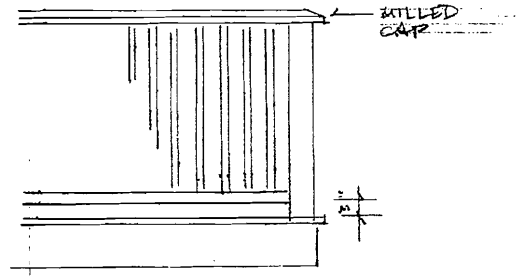
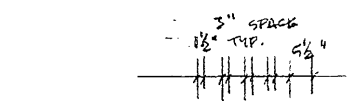
LMC LIGHT IRON, INC.

E RANGE ROAD - P.O. BOX 521

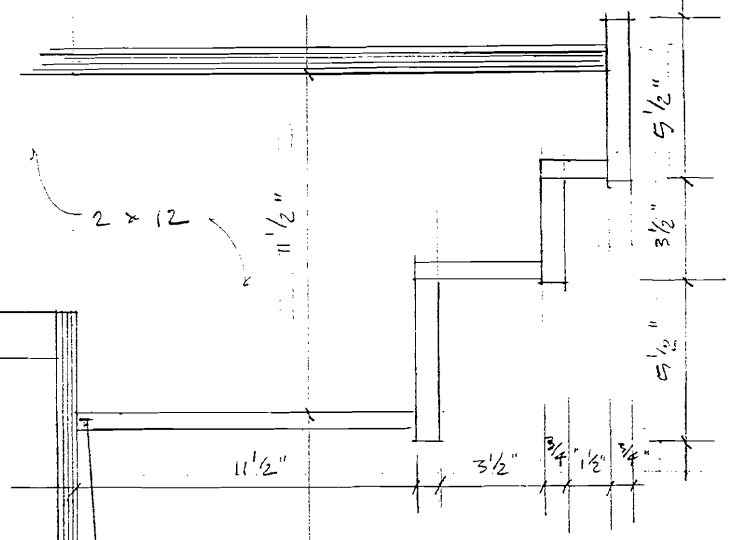
JOB NUMBER

2761

ATTACHMENT B



TYPICAL RAIL DETAIL
1/2" = 1'-0"

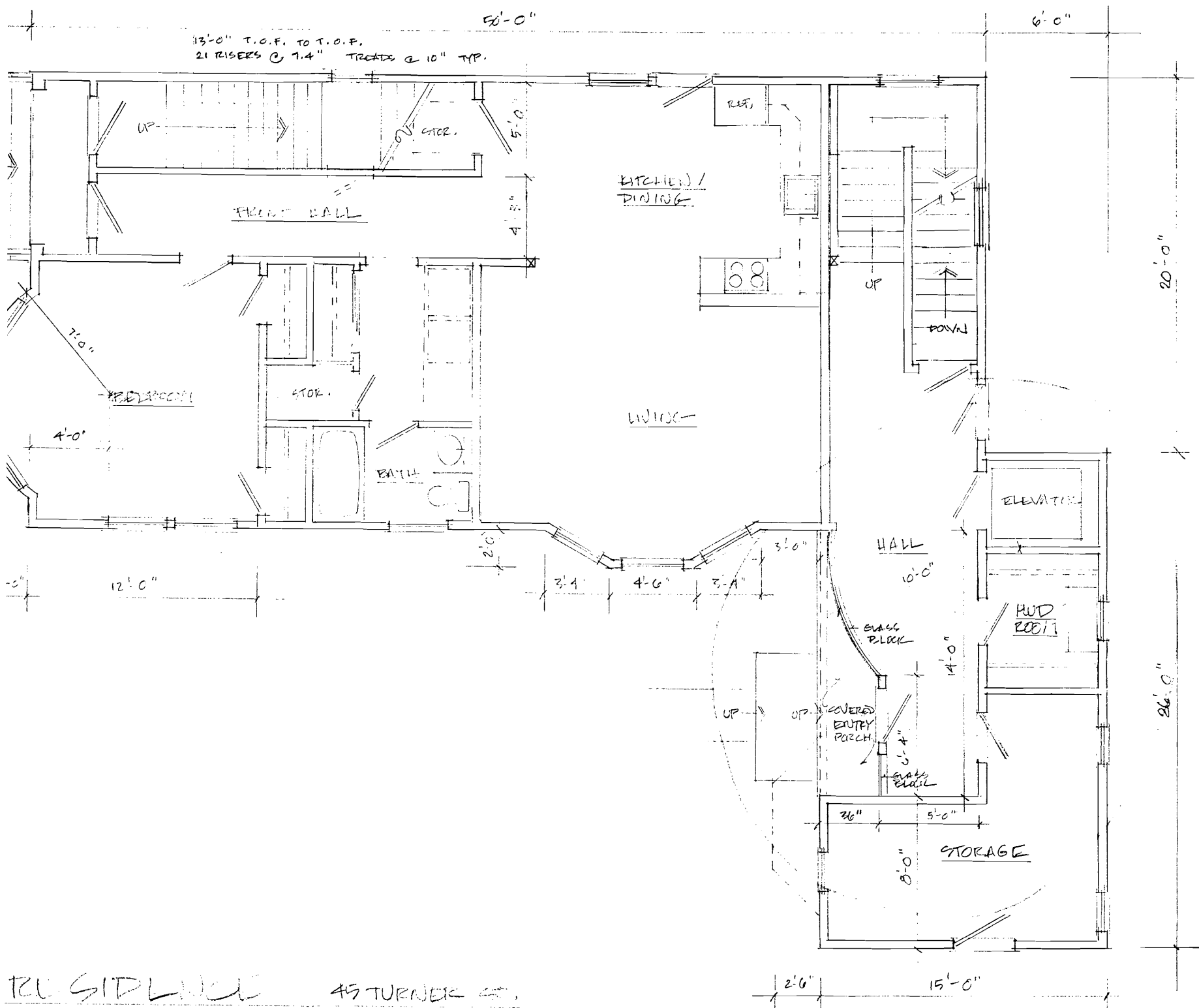


TYPICAL CORNICE DETAIL
3" = 1'-0"

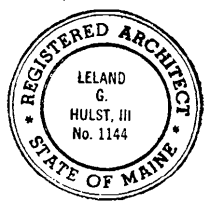
E RESIDENCE 45 TURNER ST.
ELEVATION PROPOSAL
3 | 26 | 08



LELAND HULST
ARCHITECTURAL SERVICES
278 Spring Street / Portland, Maine 04102 / (207) 773-2843

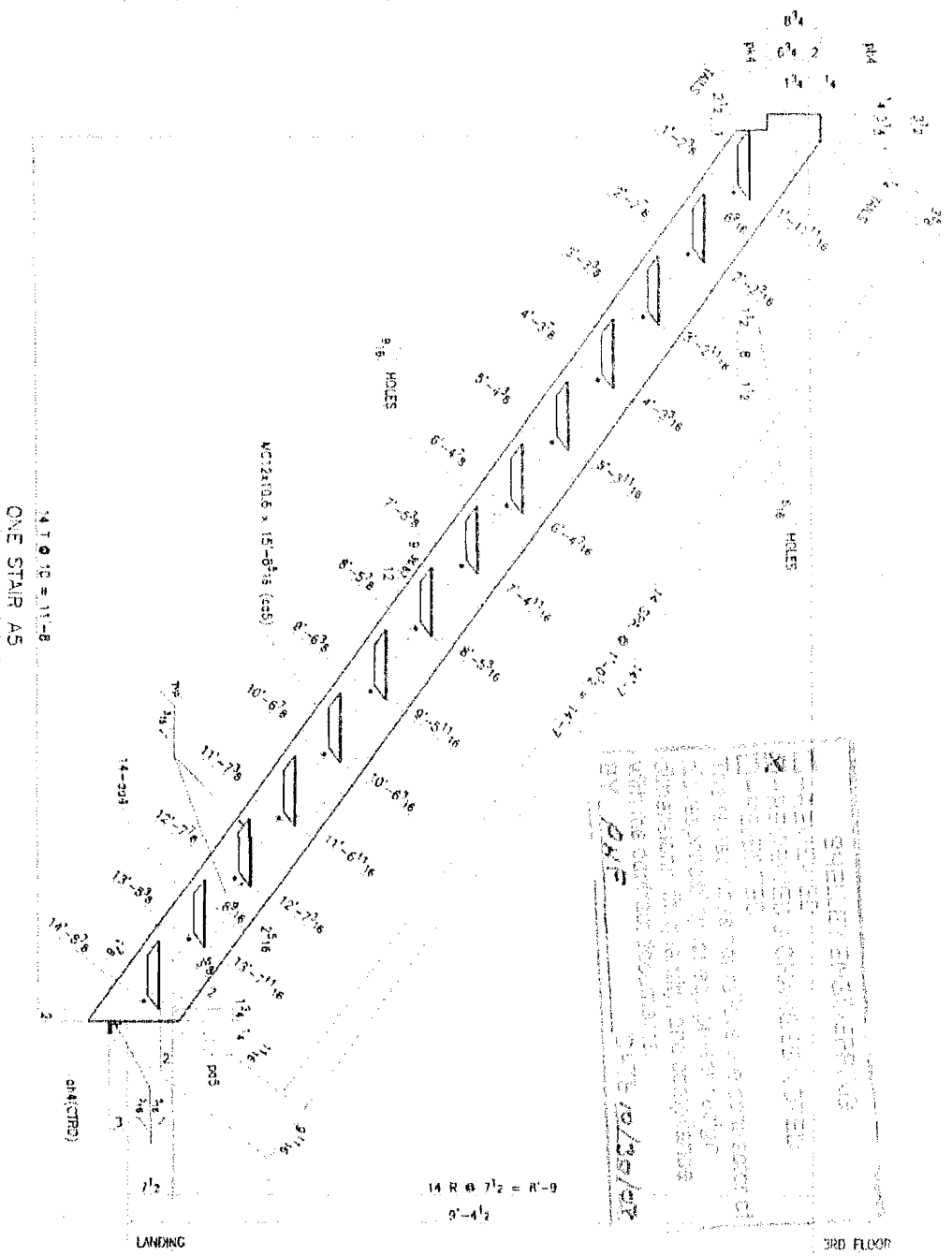
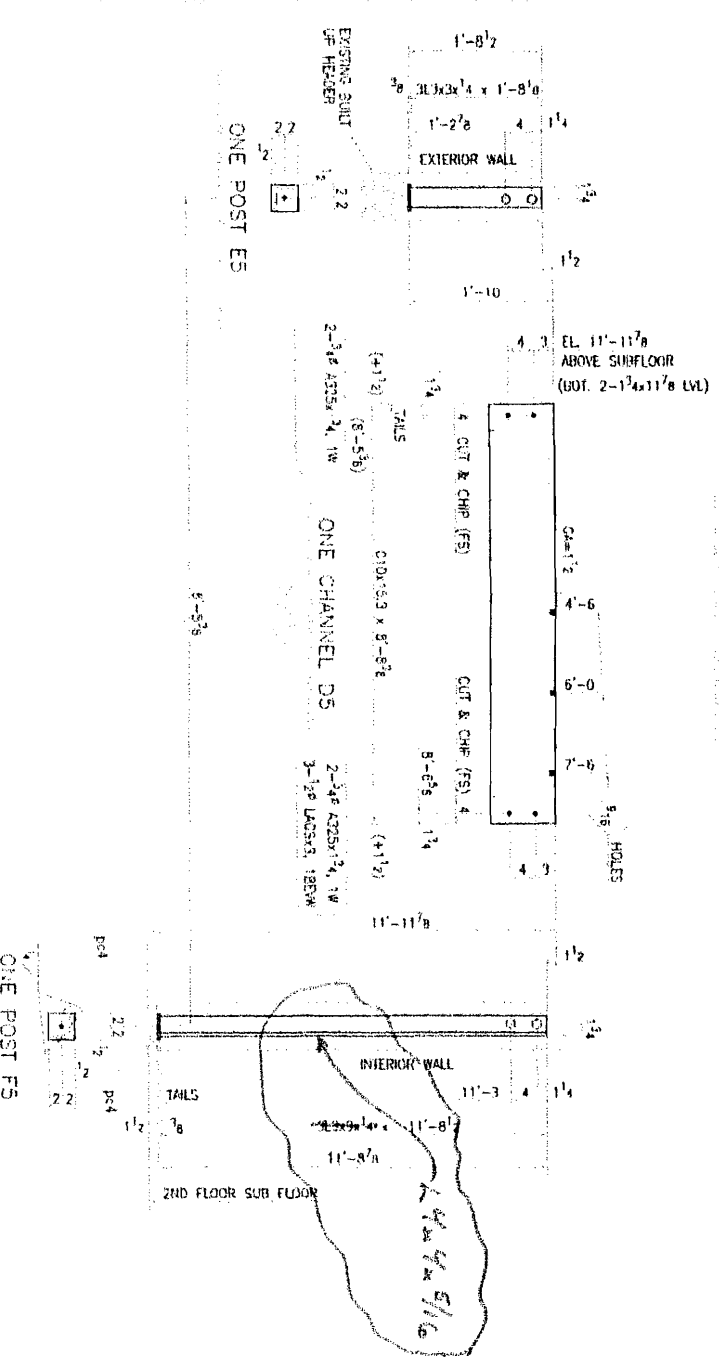


RESIDENCE 45 TURNER ST.
 2016 PLAN PROFESSIONAL
 3/10/09

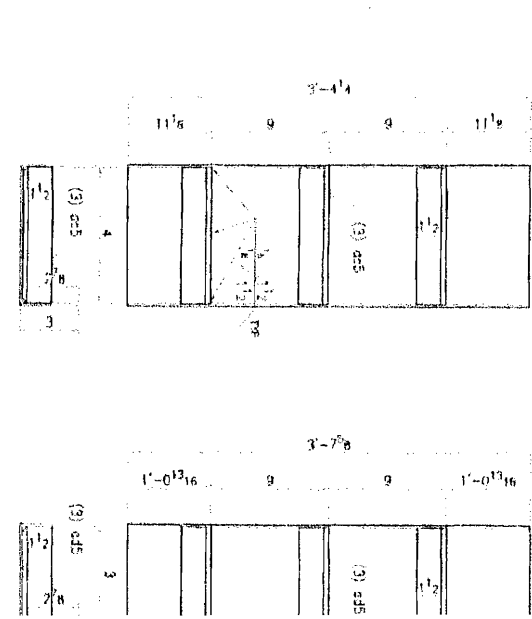
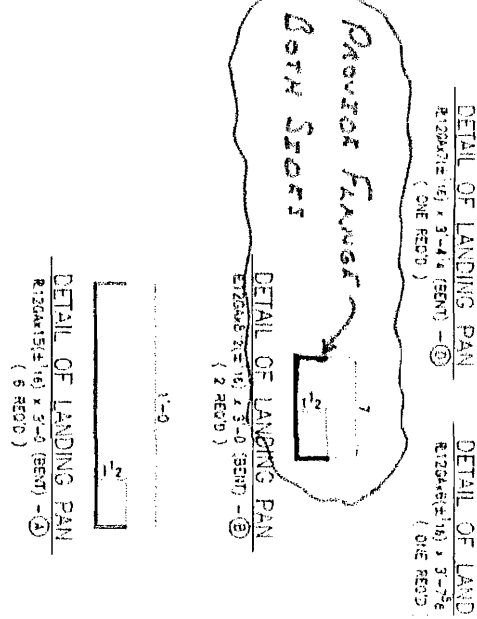
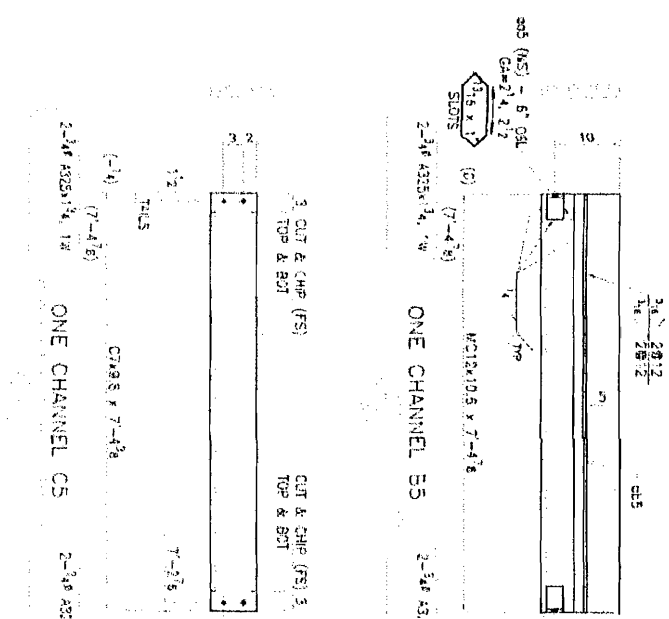


LELAND HULST
 ARCHITECTURAL SERVICES

278 Spring Street / Portland, Maine 04102 / (207) 773-2843

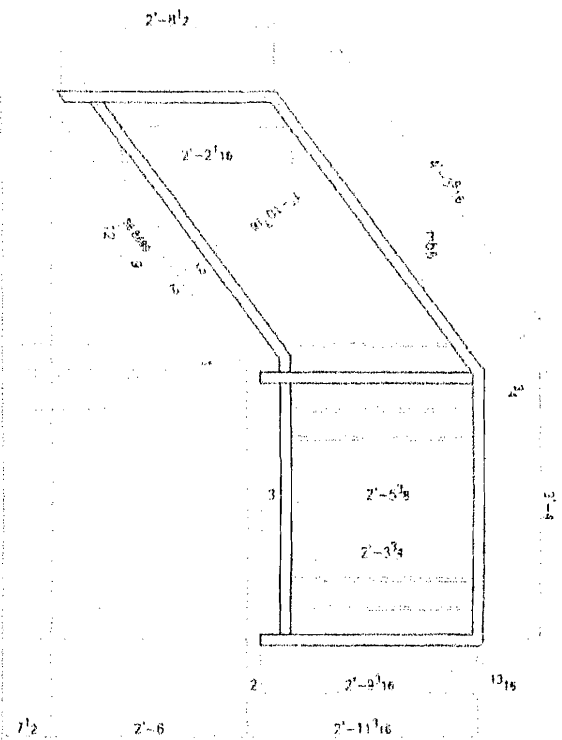


SHEET ENGINEERING
 1111 11TH AVENUE
 NEW YORK, N.Y. 10036
 BY: *[Signature]* DATE: 10/25/07
 CHECKED: *[Signature]* DATE: 10/25/07
 APPROVED: *[Signature]* DATE: 10/25/07

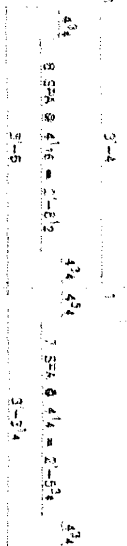


PROVIDOR FINISH
 BOTH STAIRS

2ND FLOOR

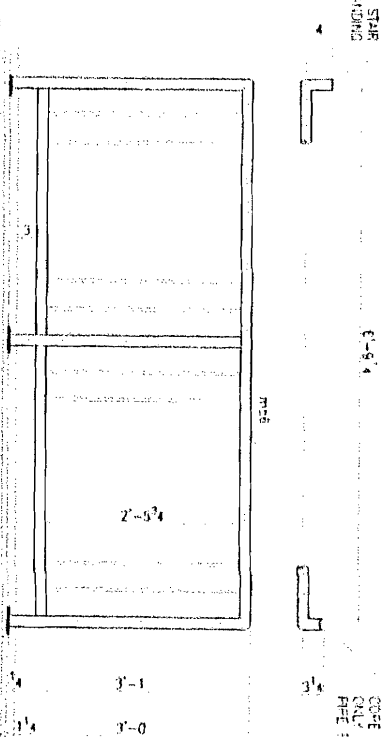


1 1/2" STD PIPE x 28'-0" (msb)
 PICKETS - 1/2" ROD x 52'-0" (stb)
 ONE HANDRAIL B2

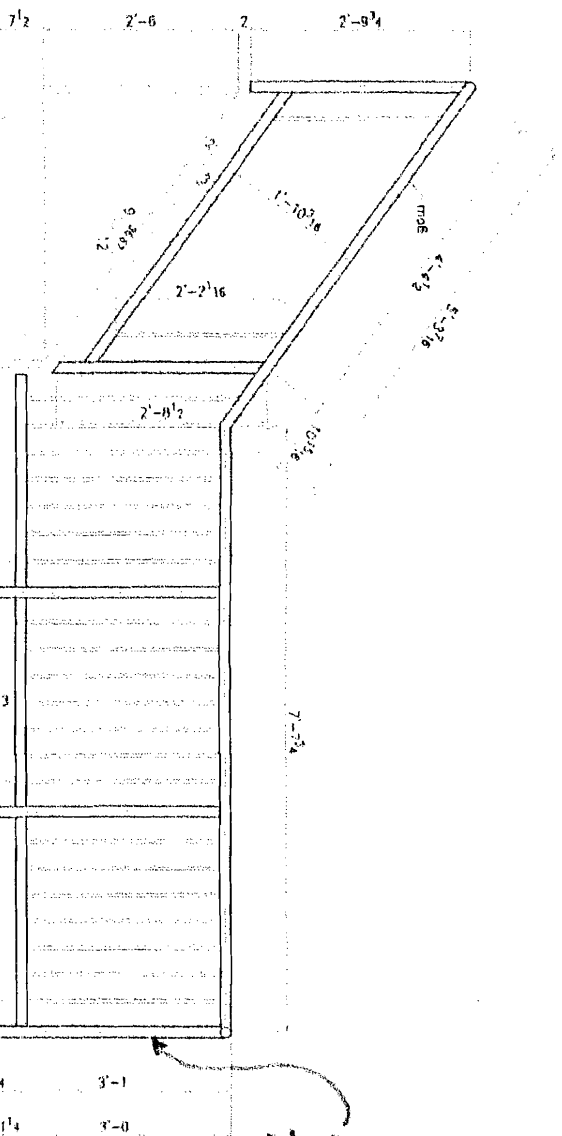
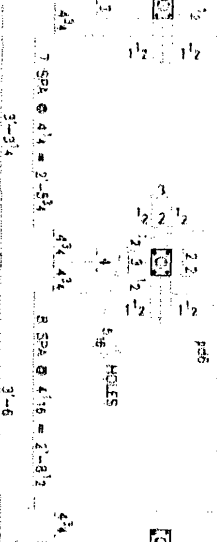


FIELD WELD TOP RAIL
 EXTENSION TO STAIR
 STRENGTH WEB AT LANDING

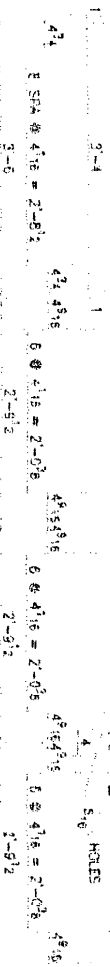
CORE
 WALL
 RAIL



1 1/2" STD PIPE x 25'-0" (msb)
 PICKETS - 1/2" ROD x 43'-0" (psb)
 ONE HANDRAIL B3



1 1/2" STD PIPE x 21'-0" (msb)
 PICKETS - 1/2" ROD x 26'-0" (psb)
 ONE HANDRAIL A6



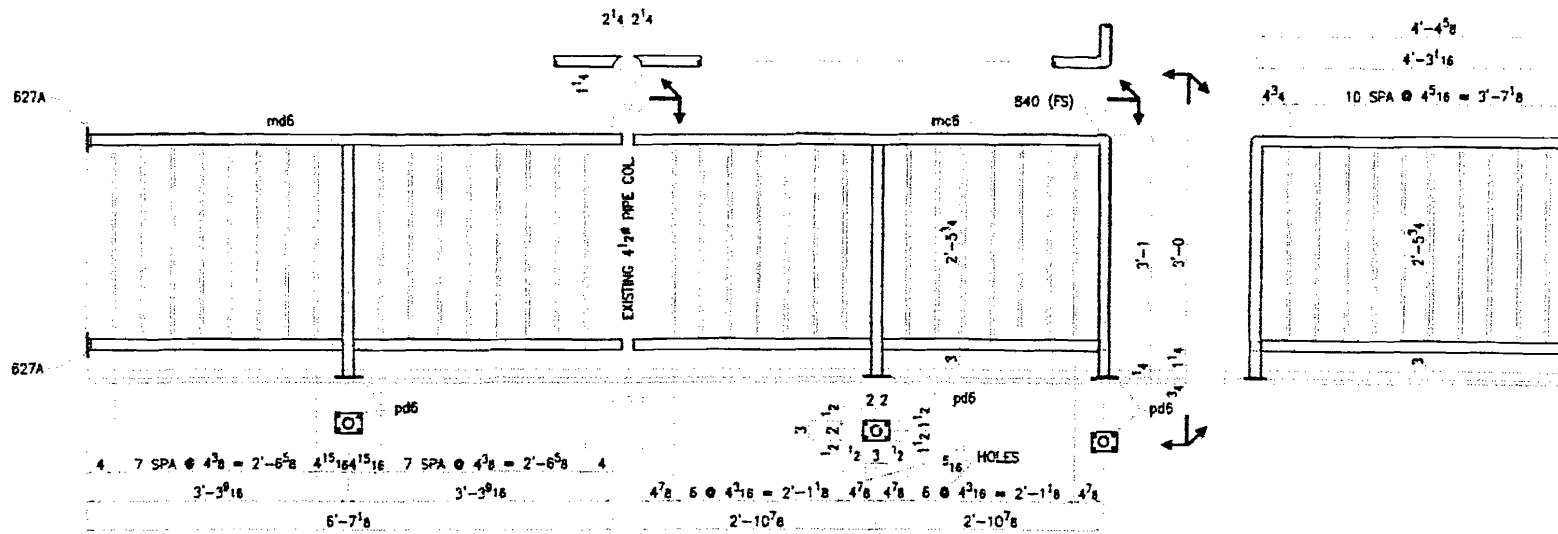
1 1/4" Ø SCHEDULE 40 PIPE
 TYPICAL AT POST LOCATIONS

SHELLEY ENGINEERING

REVIEWED
 DEVELOPER'S SIGNATURE REQUIRED
 PREPARED BY

The writer consents that the drawings herein are prepared for the use of the client and that the writer assumes no responsibility for the accuracy of the drawings or the results of their use.

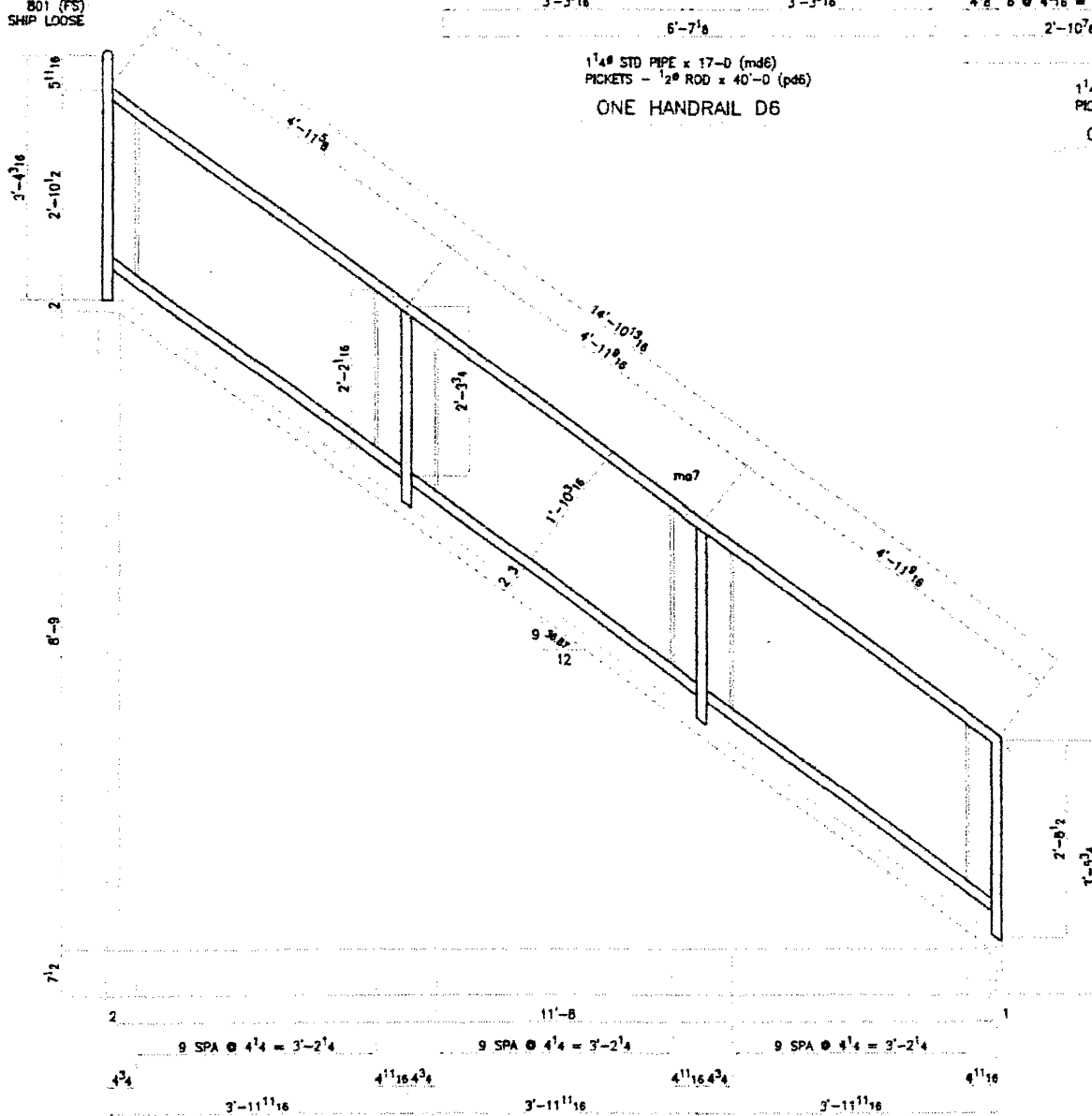
DATE: 12/15/10
 BY: PHE



1 1/4" STD PIPE x 17'-0 (md6)
 PICKETS - 1/2" ROD x 40'-0 (pd6)
 ONE HANDRAIL D6

1 1/4" STD PIPE x 30'-0 (mc6)
 PICKETS - 1/2" ROD x 45'-0 (pc6)
 ONE HANDRAIL C6

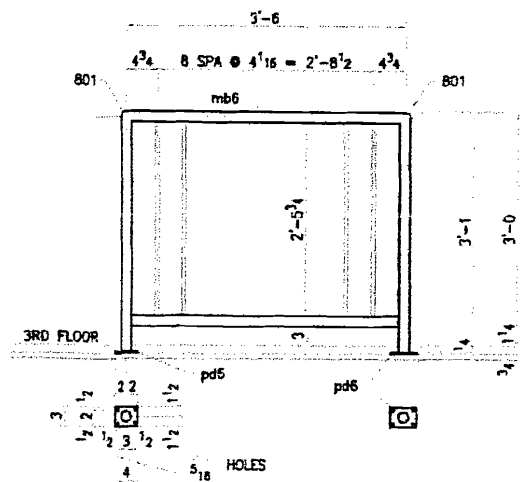
B01 (FS)
 SHIP LOOSE



ONE HANDRAIL A7

1 1/4" STD PIPE x 42'-0 (ma7)
 PICKETS - 1/2" ROD x 55'-0 (pa7)

SHELLEY ENGINEERING
 I HAVE REVIEWED
 AND APPROVED ALL CHANGES NOTED
 ON THESE DRAWINGS
 The review does not relieve the contractor
 of his responsibility for equipment design
 dimensions, fit, quantity, and compliance
 with the contract documents.
 BY DNF DATE 10/30/04



1 1/4" STD PIPE x 13'-0 (mb7)
 PICKETS - 1/2" ROD x 23'-0 (pb7)
 ONE HANDRAIL B7

