DESTEFANO & ASSOCIATES, INC.

PLANNING
DESIGN
CONSTRUCTION

2456 LAFAYETTE ROAD, PORTSMOUTH, NH 03801
Telephone: (603) 430-0339 Fax: (603) 430-0346
E-Mail: destefano@prexar.com Web Site: www.destefano-associates.com

Fax

To: MIKE NUGENT From: ANDY VANASSE
Fax: 207-874-8716 Pages: 2
Re: PORTLAND SPORTS CTR Date: 10-21
Project: TEMP. BLDG CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:

MIKE,

AS REQUESTED, THE ALLOWABLE DESIGN LOADS FOR THE GE CAPITAL MODULAR BUILDING (TEMPORY STRUCTURE) IS AS FOLLOWS:

SNOW/ROOF: 40 PSF
FLOOR: 50 PSF

(COPY FROM ORIGINAL PLANS ATTACHED)

REGARDS,

AV

P.O. BOX 884
CLAREMONT, NH 03743

1. PLANT-CUSTOMIZED STRUCTURES INC.PLAINS RD.BOX 884,CLAREMONT,N.H.
   APPROVAL #032,EXP:5-1-97
   BSAR #95-495
   CORPORATE OFFICE: SAME
2. THIRD PARTY-PFS CORP.401 MARKET ST.,BLOOMSBURG,PA. 17815
   CERT #:TP1A-02 EXP:5-1-97
3. FOR INDEX OF DRAWINGS-SEE AT RIGHT
4. A.MODEL NUMBER: Barnstable Public Schools
   B.SITE: Hyannis MA
5. Use Group: E
6. TYPE OF CONSTRUCTION: 5B
7. HEIGHT OF BUILDING: Max. 13'6" (FROM GRADE)

8. FLOOR AREA:FIRST FLOOR:1128 SQ.FT./Rm, 5640/project
   TOTAL VOLUME:13254 CU.FT./Rm 66270 /project *CONSTRUCTION CONTROLS REQUIRED ON-SITE (12.7.e)
9. NUMBER OF STORIES: 1
10. OCCUPANCY LOAD:50/ Classroom

11. SPECIAL SYSTEMS
    FIRE ALARM SYSTEM: Fire Protection Signaling System per Sec 1017 on site by others
    FIRE SUPPRESSION SYSTEM: None Required

12. DESIGN LIVE LOAD
    WIND/Wall Zone III Exp. C Ref Pressure= 21PSF
    Pressure within Salient Corner area= 21x1.7=35.7psf
    Pressure beyond salient corner area(388.8sqft)= 21x0.8= 16.8psf

SNOW/ROOF	40PSF
SEISMIC	Wind Load Governs
FLOORS	50PSF
STAIRS/RAMPS	100PSF
CORRIDORS	N/A
BALCONIES	N/A
OTHER	N/A

** TOTAL PAGE.02 **

DESTEFANO & ASSOCIATES, INC.
2456 Lafayette Rd.
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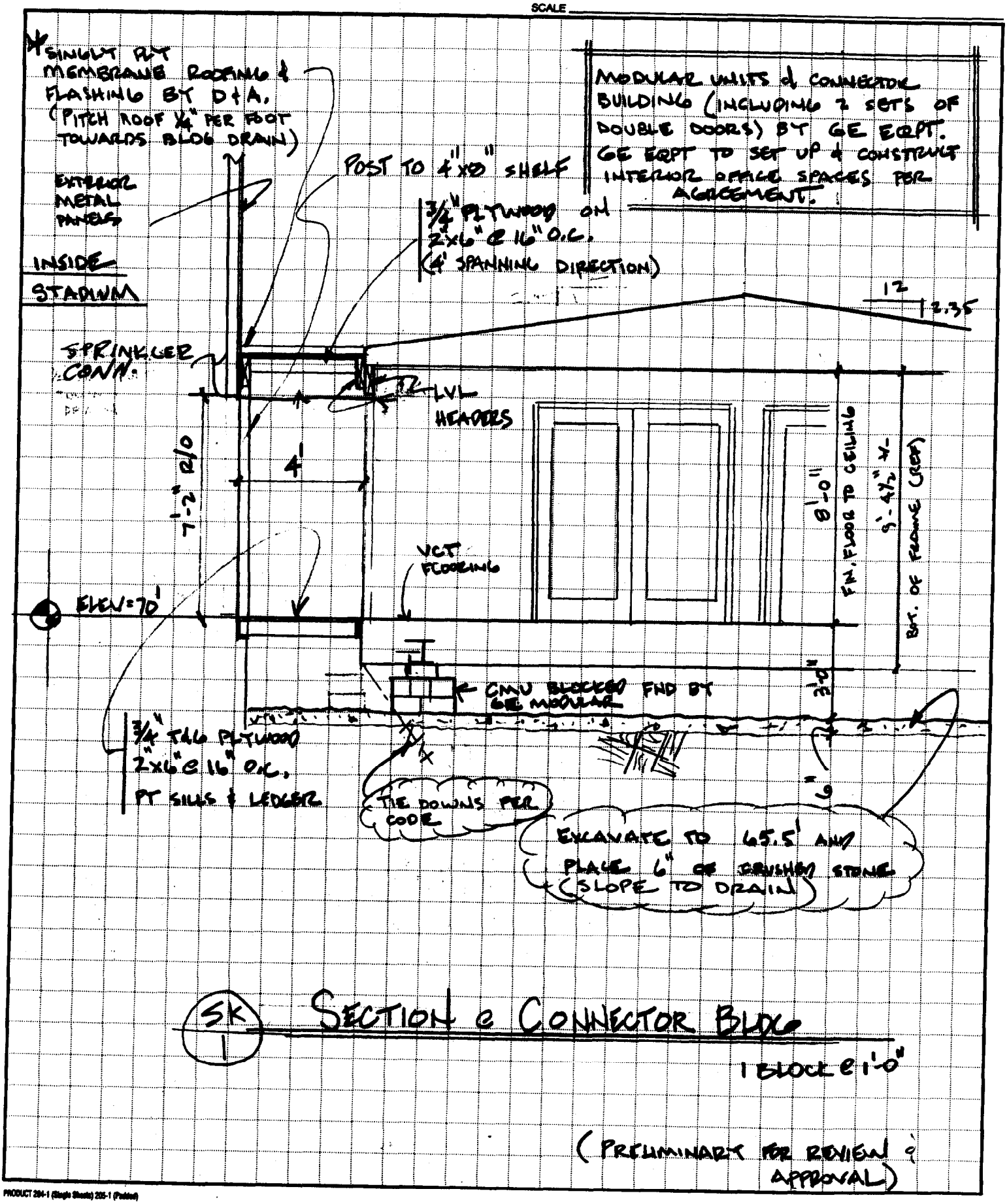
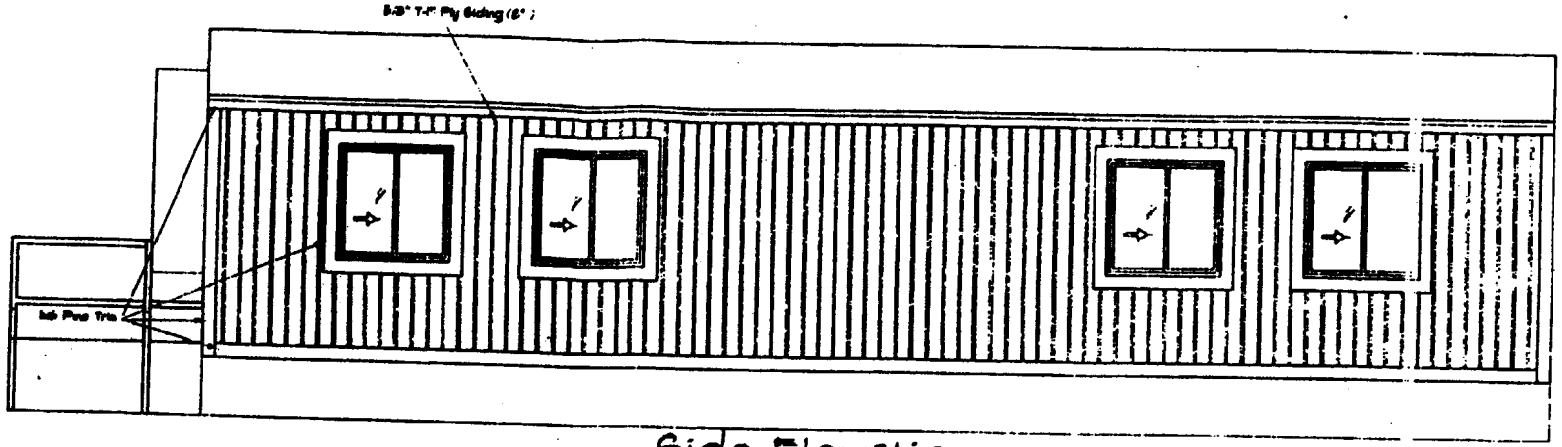
JOB PORTLAND SPORTS CENTER
SHEET NO. 2 OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE



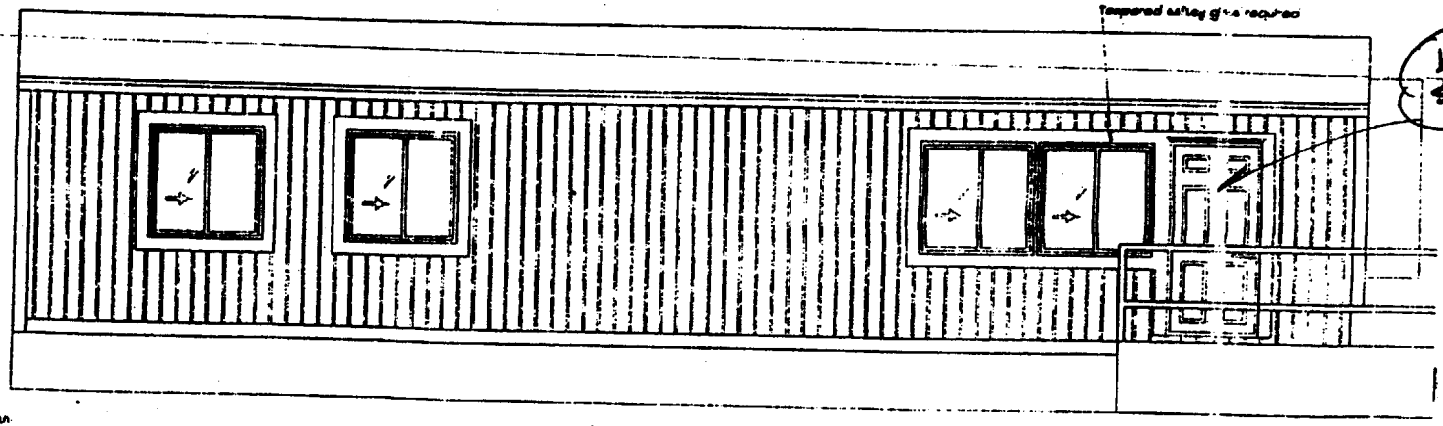
SK/1 SECTION @ CONNECTOR BLDG

1 BLOCK @ 1'-0"

(PRELIMINARY FOR REVIEW & APPROVAL)



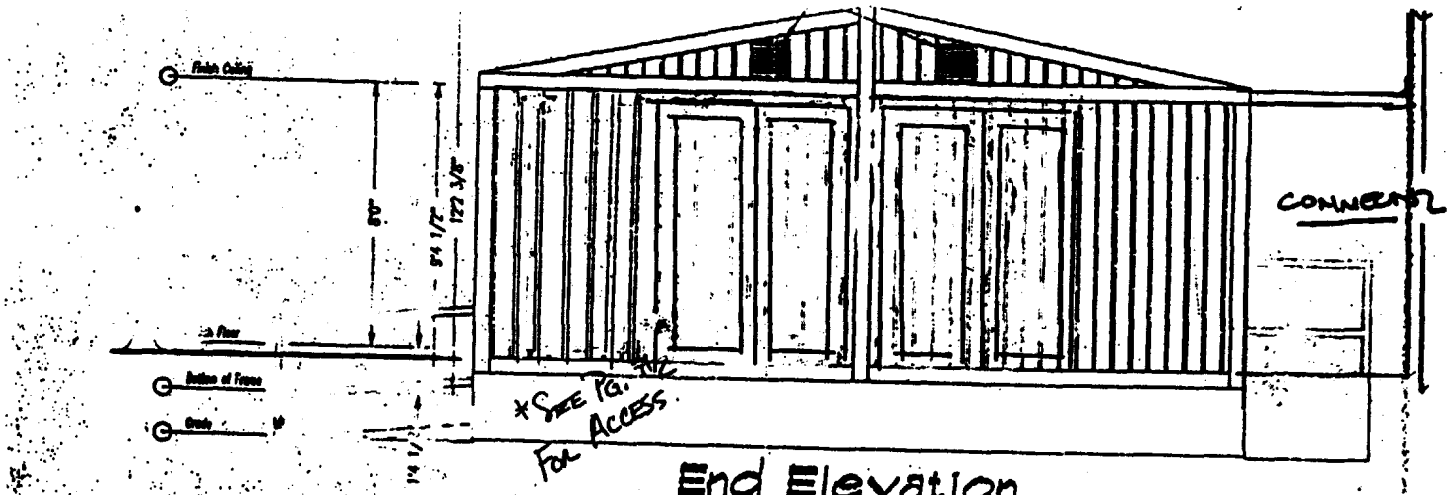
Side Elevation
Scale: 1/4"=1'0"



Side Elevation
Scale: 1/4"=1'0"

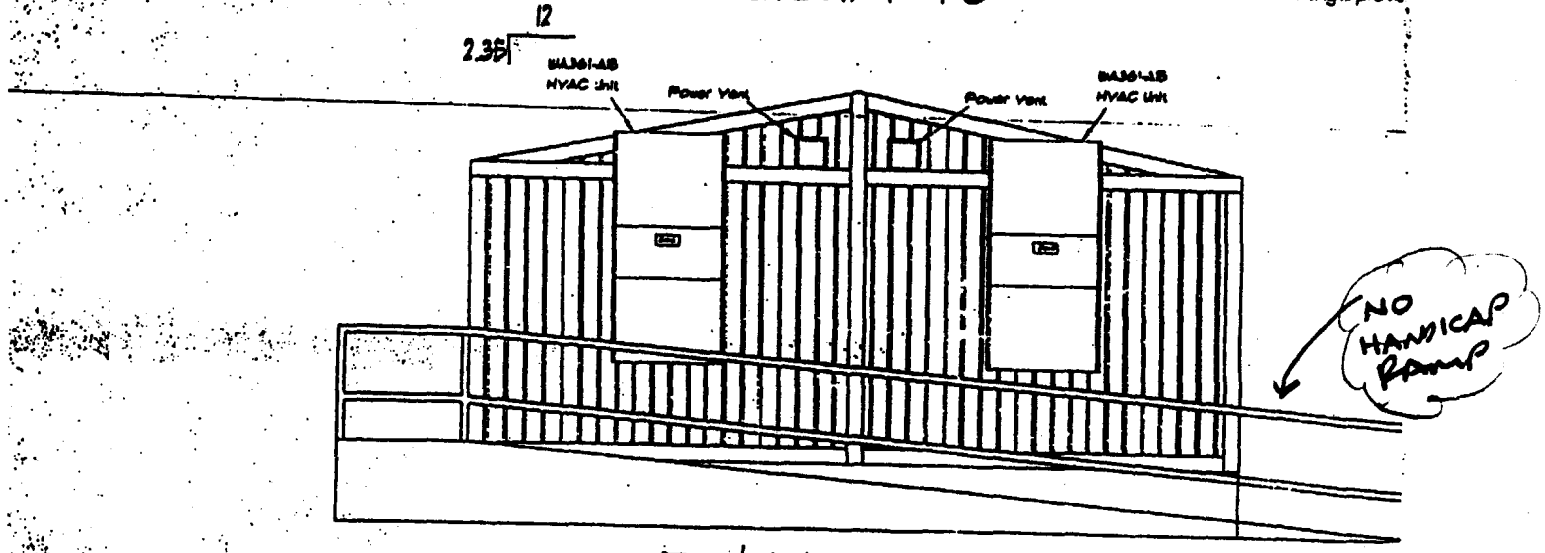
GE CAPITAL SHELL
(TO BE MODIFIED)

RUBB BLDG



End Elevation
Scale: 1/4"=1'0"

Bracing is provid



End Elevation
Scale: 1/4"=1'0"

Ramp pitch not greater than 1/2. 30 De
or 30°. 180 degree turn require min cle

GE CAPITAL SHELL
(TO BE MODIFIED)

CURTIS WALTER STEWART
Architects

434 Cumberland Avenue Portland ME 04101-2325
www.CWSarch.com

Phone: 207.774.4441
Fax: 207.774.4016

FAX TRANSMITAL

To: MIKE NUGENT

Company: CITY OF PORTLAND

Fax Number: 874-8716

Date: 10-24-03

Project No. PORTLAND SPORTS CENTER

Copy to:
JOHN DESTEFANO

From: BEN WALTER

Message:

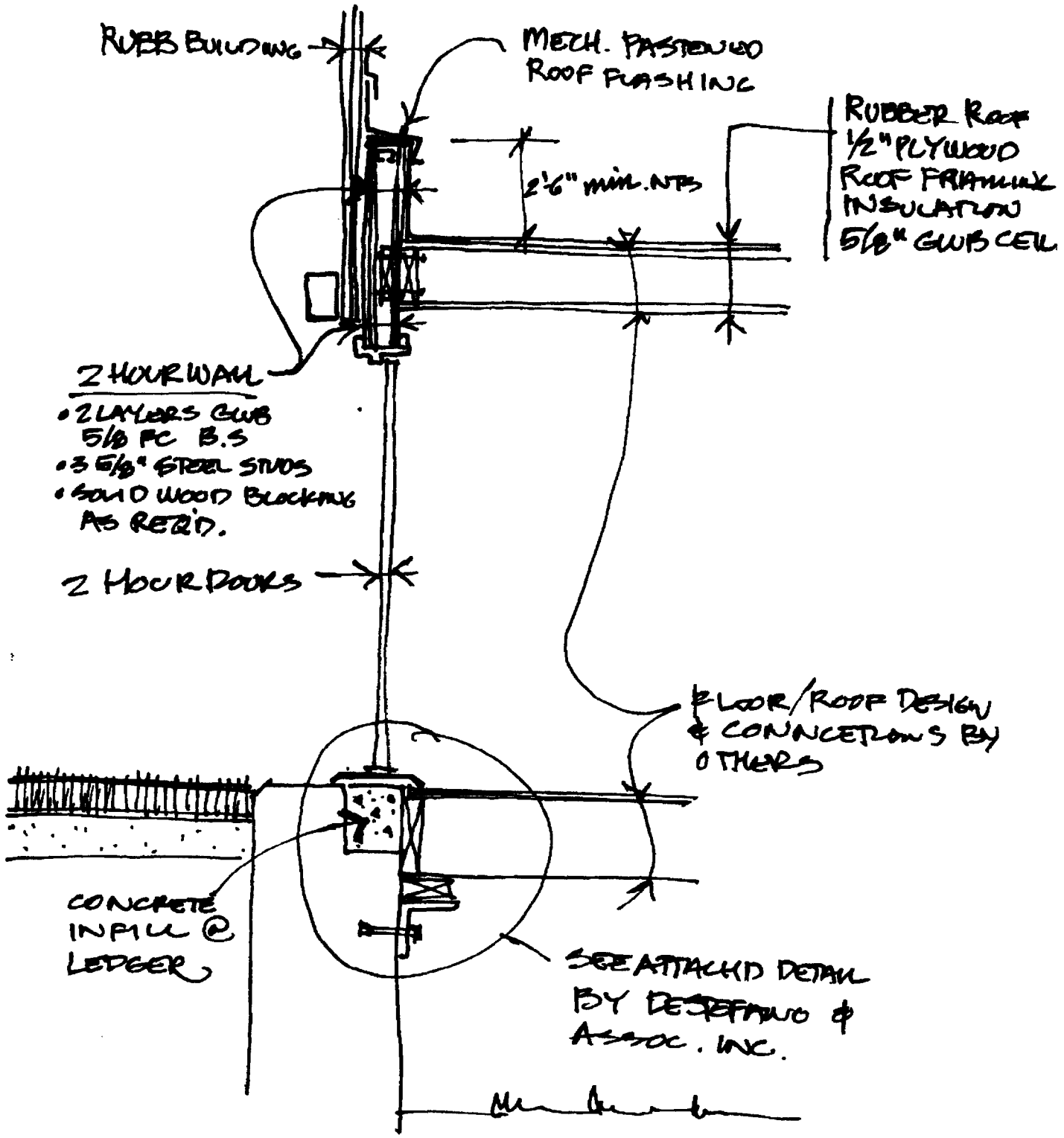
PROPOSED 2 HR. SEPARATION BETWEEN RUBB & ENTRY.

IS THIS OK W/ YOU?

BEN

Please notify CWS if received in error.

Pages Following:


RUBB BUILDING
MECH. PASTENED ROOF FLASHING
RUBBER ROOF
1/2" PLYWOOD
ROOF FRAMING
INSULATION
5/8" GWB CEIL
2'6" MIN. NTS
2 HOUR WALL
• 2 LAYERS GWB 5/8 FC B.S
• 3 5/8" STEEL STUDS
• SOLID WOOD BLOCKING AS REQ'D.
2 HOUR DOORS
FLOOR/ROOF DESIGN & CONNECTIONS BY OTHERS
CONCRETE INFILL @ LEDGER
SEE ATTACHED DETAIL BY DESEFANO & ASSOC. INC.

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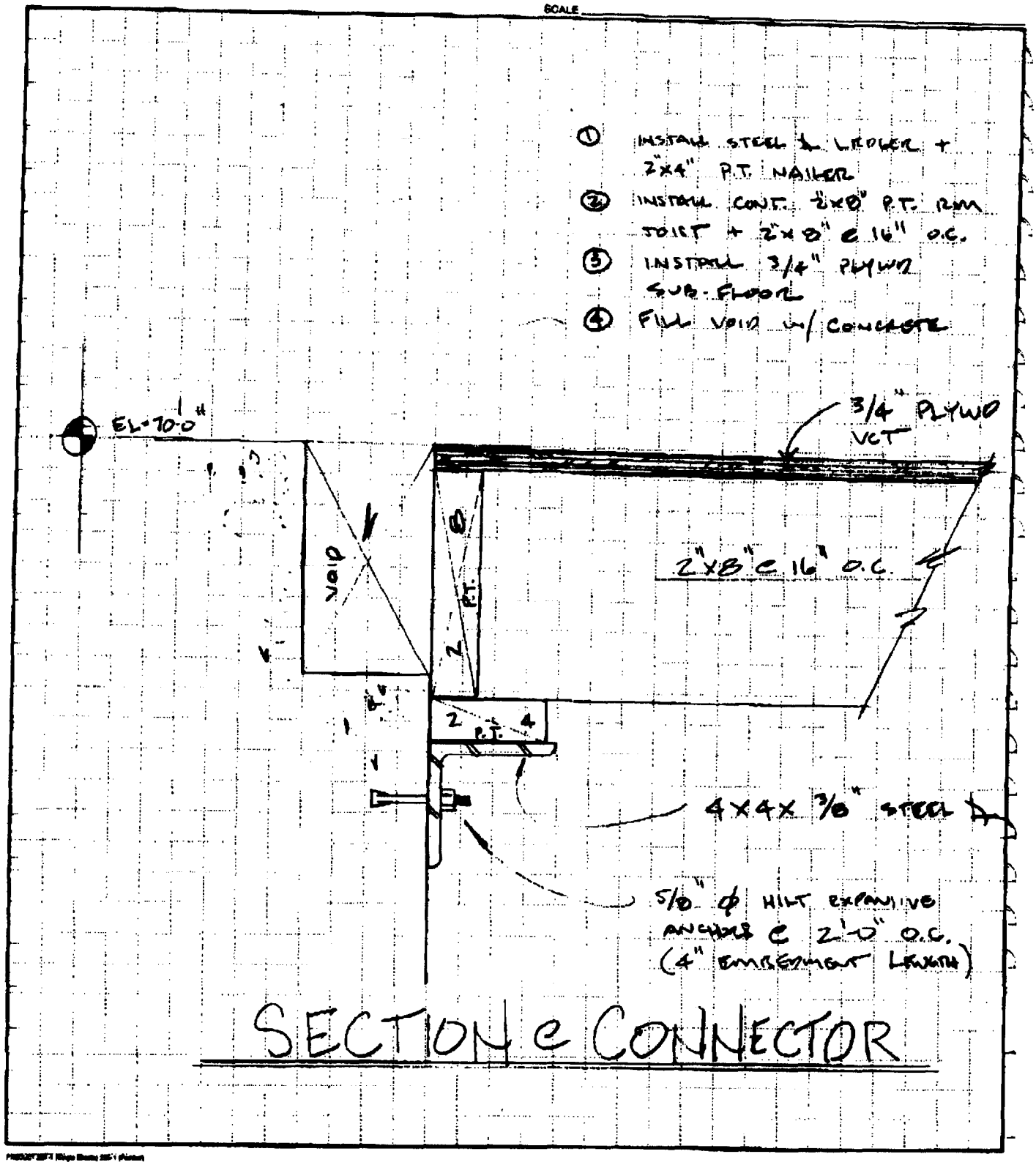
2456 Lafayette Rd.
PORTSMOUTH, NH 03801
(603) 430-0339 Fax (603) 430-0346

JOB PORTLAND SPORTS CENTER
SHEET NO 1 OF
CALCULATED BY AJ DATE 10-23-03
CHECKED BY DATE
SCALE

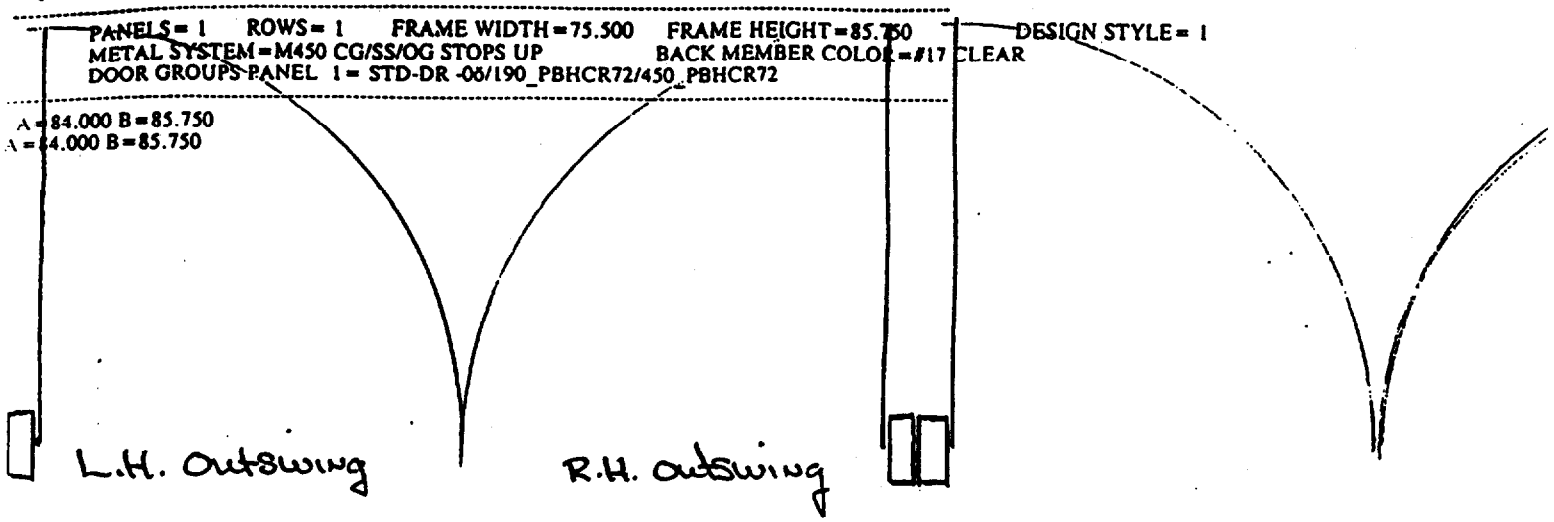


SECTION @ CONNECTOR

FRAME: FR # 1 | 2 REQUIRED | PAGE # 1

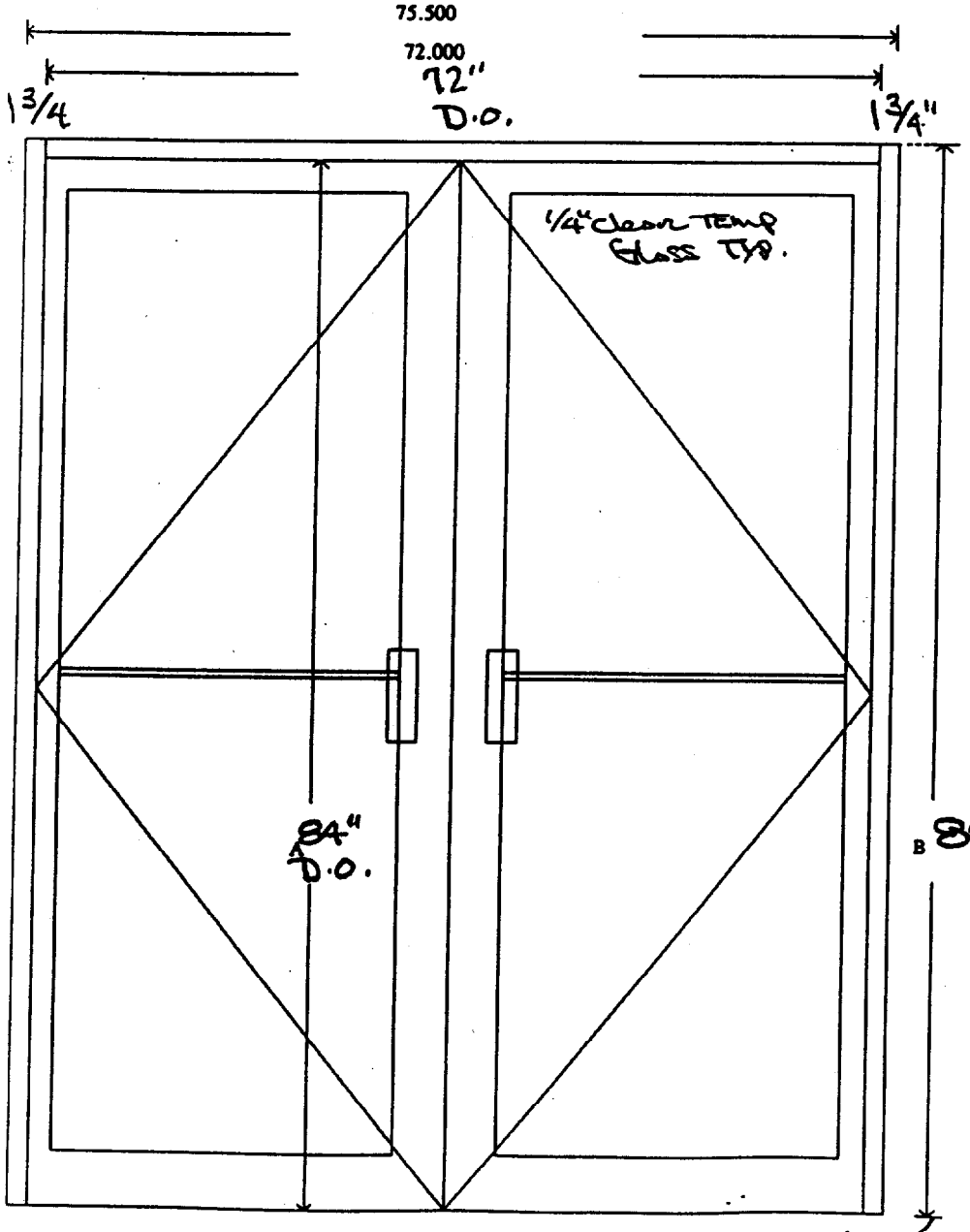
PANELS = 1 ROWS = 1 FRAME WIDTH = 75.500 FRAME HEIGHT = 85.750 DESIGN STYLE = 1
METAL SYSTEM = M450 CG/SS/OG STOPS UP BACK MEMBER COLOR = #17 CLEAR
DOOR GROUPS PANEL 1 = STD-DR -06/190_PBHCR72/450_PBHCR72

A = 84.000 B = 85.750
A = 84.000 B = 85.750



76" R.O. (151½" R.O. for (2) Pairs)

75½" F.S.



Kawneer 190 Narrow Style Doors.
Trifab 450 Frame

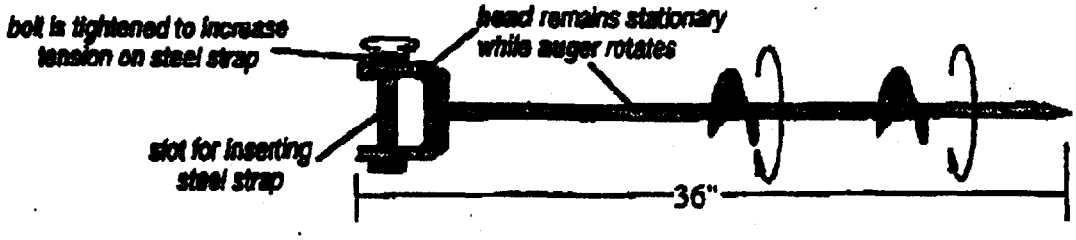
- 1 Pr. Butt Hinges
- Dor-O-Matic 1690 Concealed Rod Exit device
- C09 Pull Handle
- Norton Surface Closer
- STD. threshold
- Construction cylinder

86" R.O.

4 thus DR's 9, 10, 11 & 12

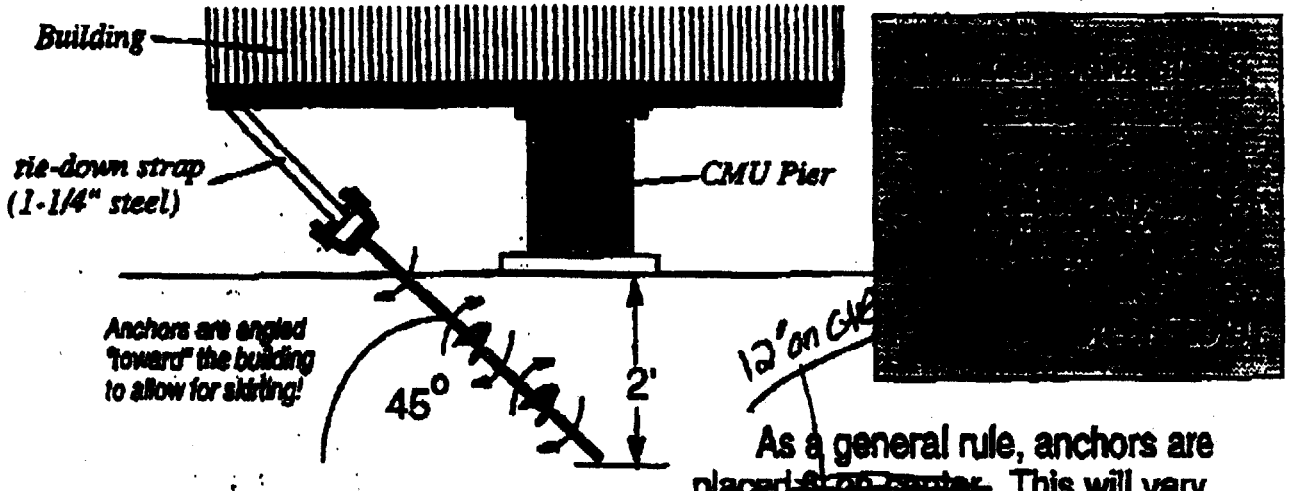
Anchors (or "Tie-Downs")

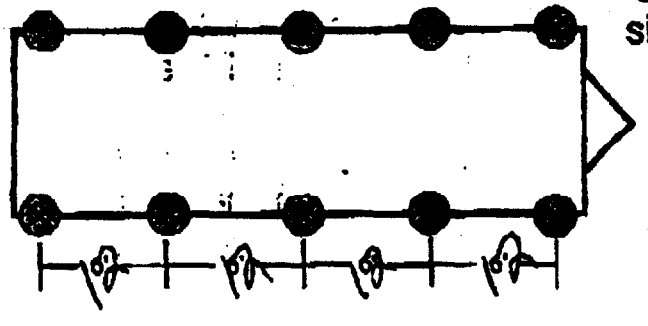
Anchors. By definition, an anchor ties the building to a fixed, immovable object. In the case of mobile and modular buildings, this "fixed, immovable object" is the earth. A typical anchor is shown below.



Anchors are best installed at a 45° angle into the ground, towards the building. Because of the auger-like disks, it is "screwed" into the ground to a depth of approximately 2 feet.

The anchor is attached to the building by threading the 1-1/4" tie-down straps (*also called "hurricane straps"*) through a bolt-like piece at the top of the anchor, and twisting to achieve tension. This is why anchors are often referred to as **"Tie-Downs"**.





As a general rule, anchors are placed ~~6' on center.~~ This will vary, depending upon local building codes site conditions, and whether tie-down straps are still on the building!

Anchors are not typically part of the standard installation of the building. They cost extra -- anywhere from $30 to $70 per anchor.

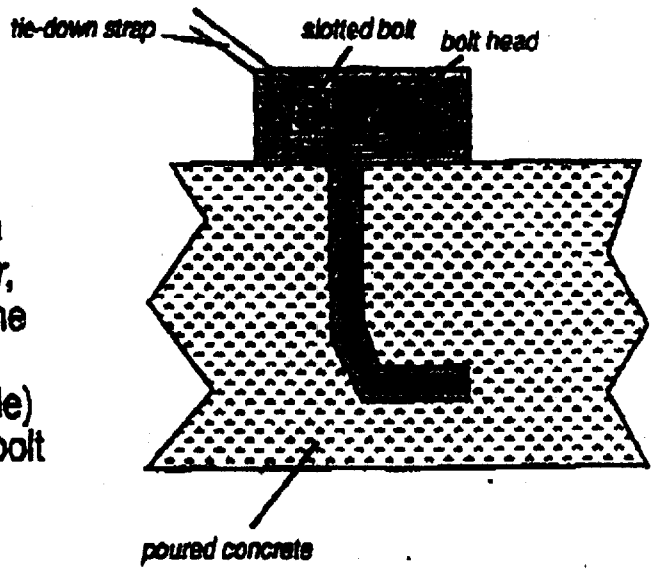
Anchors: other types

We use several types of anchors to tie buildings down. The type of anchor that we use will depend upon:

- *soil conditions at the site (rocky? clay? sand? asphalt?)*
- *temporary or permanent installation (set in concrete?)*
- *local building codes*

Anchors in Concrete.

In permanent installations, anchors are often installed in concrete before the concrete sets, or hardens. This is often done using a *Double Head Slab Anchor*, shown at right. It has a slotted bolt in the head, like an auger anchor. The building's tie down strap (or a steel cable) is fastened through the slot. Then the bolt is tightened, to achieve tension in the strap.



Rock Anchor.

When the soil is very rocky, or a building must be anchored to a concrete foundation that is already cured, rock anchors are often used. This anchor features three spikes. A hole is drilled for the center spike first. Then the two other spikes are driven into the hard surface, usually using a sledgehammer.