

**PROJECT: BRANDON TOWN CENTER
 BRANDON, FL**

DATE: FEBRUARY 10, 1994

Air infiltration test per ASTM E283-86

Static water penetration test per ASTM E331-86

Uniform structural load test at 1.5 x design overload ASTM E330-84



781 East Washington Boulevard
P.O. Box 880550, Hunter's Point Shipyard Bldg. 114
5427 East La Palma Avenue

- Los Angeles, California 90021
- San Francisco, California 94188
- Anaheim, California 92807
- (213) 749-3411
- (415) 330-3000
- (714) 693-1026
- Fax: (213) 746-7228
- Fax: (415) 822-5864
- Fax: (714) 693-1034

File No. 63587
Laboratory No. 94-E-111
P.O. #4619

February 18, 1994

Metcoe Specialties
1715 W. 135th Street
Gardena California 90249
Attn: Morris

PROJECT: Brandon Town Center

SUBJECT: Mock-Up Test

REPORT OF TESTS

Location of Test: Smith-Emery Company
Los Angeles, California

Date: February 10, 1994

AIR INFILTRATION TEST (Ref: ASTM E 283)

Test Procedure

The window system was covered with polyethylene sheeting. A positive pressure of 6.24 PSF was developed. The air flow, in CFM, required to maintain this pressure was recorded. This number represents the air flow through the chamber. The sheeting was removed and the positive pressure of 6.24 PSF was reestablished. The air flow was recorded.

NOTE: The difference between the air flow with and without the sheeting represents the air flow through the window system.

Acceptance Criteria

The maximum amount of air infiltration is 0.06 CFM per square foot of window area. Maximum flow = 70 S.F x 0.06 CFM/S.f of fixed wall area = 4.2 CFM.

Test Results

Initial Reading = 6 CFM
Gross Reading = 7 CFM
Net = 1 CFM

ACCEPTABLE

SMITH-EMERY COMPANY

File No. 63587
Laboratory No. 94-E-111
P.O.#4619
Page 2

STATIC WATER PENETRATION TEST (ASTM E 331)

Test Procedure

A positive test pressure of 12 PSF was established. Water was applied to the exterior of the mock-up at a rate of 5 GPH per square foot for a period of fifteen minutes. During this period, the interior of the mock-up was inspected for water penetration.

Acceptance Criteria

No water infiltration is allowed.

NOTE: AAMA 501-83-1.3- "For these specifications water leakage is defined as any uncontrolled water that appears on any normally exposed interior surfaces that is not contained or drained back to the exterior, or that can cause damage to adjacent materials or finishes. Water contained within drained flashings, gutters and sills is not considered water leakage. The collection of up to one half ounce of water (14.8cc) in a 15 minute test period on top of an interior stop or stool integral with the wall system shall not be considered water leakage.

Test Results

ACCEPTABLE

NOTE: Perimeter flashing was caulked to chamber prior to performance of tests.

Respectfully submitted,

SMITH-EMERY COMPANY


James E. Parker

Registered Civil Engineer #41507
Registration Expires 12/31/95

JEP/jt

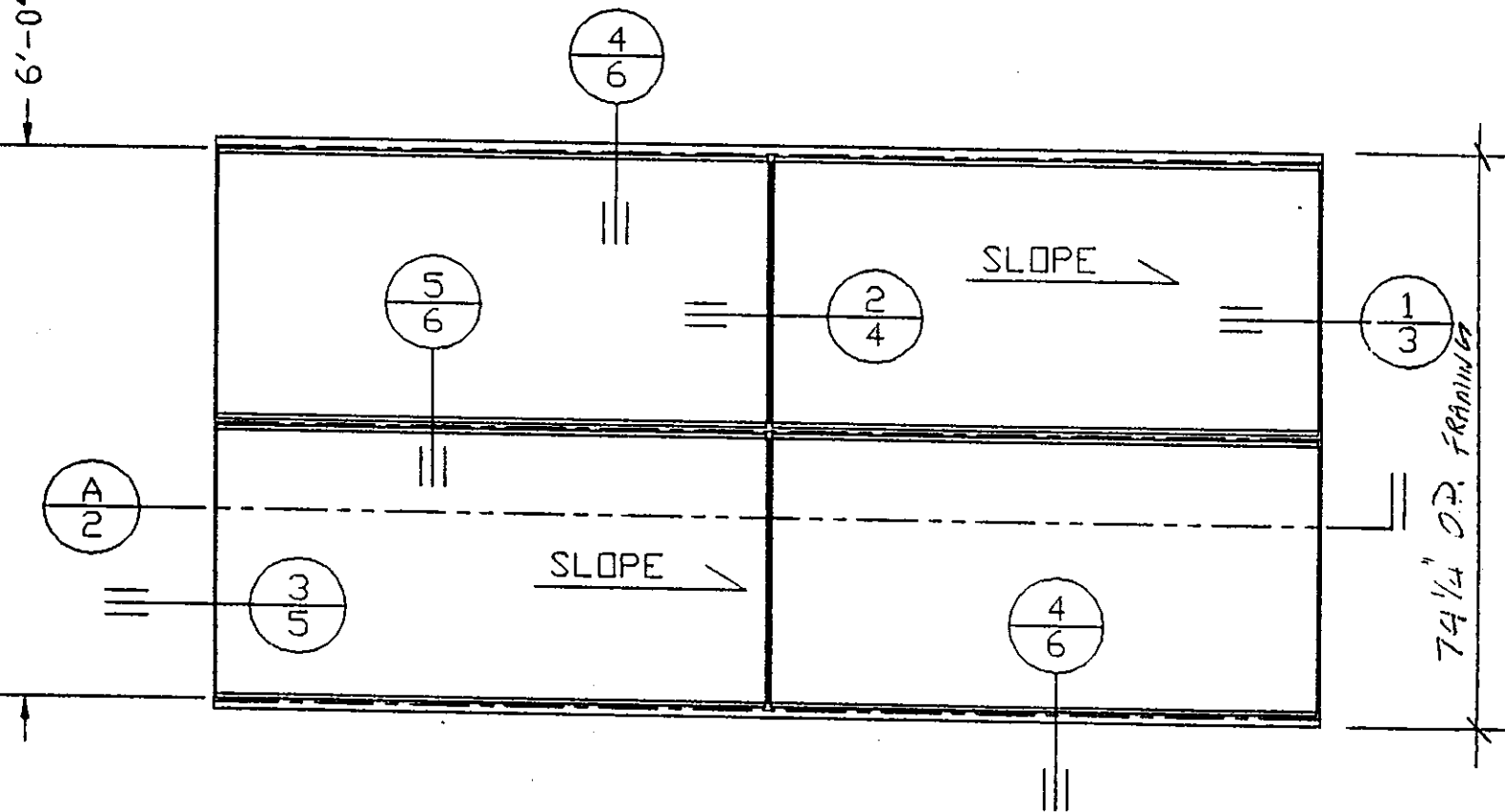
SPECIFICATIONS

Air Infiltration: Air leakage shall not exceed 0.06 cfm per square foot of surface area when tested in accordance with ASTM E283 at differential static pressure of 20% of full positive design wind load with minimum of 6.24 psf.

MAXIMUM DESIGN WIND LOAD: 58.2 psf.

Water infiltration: No uncontrolled leadage when tested in accordance with ASTM E331 at test pressure of 20% of full positive design wind load with minimum of 6.24 psf.

6'-0" CL TO CL RAFTER



MOCK-UP PLAN

SCALE: 1/2" = 1'-0"



1715 West 135th Street
Gardena, CA 90249
FAX: [REDACTED]
Phone: 213/770-0639

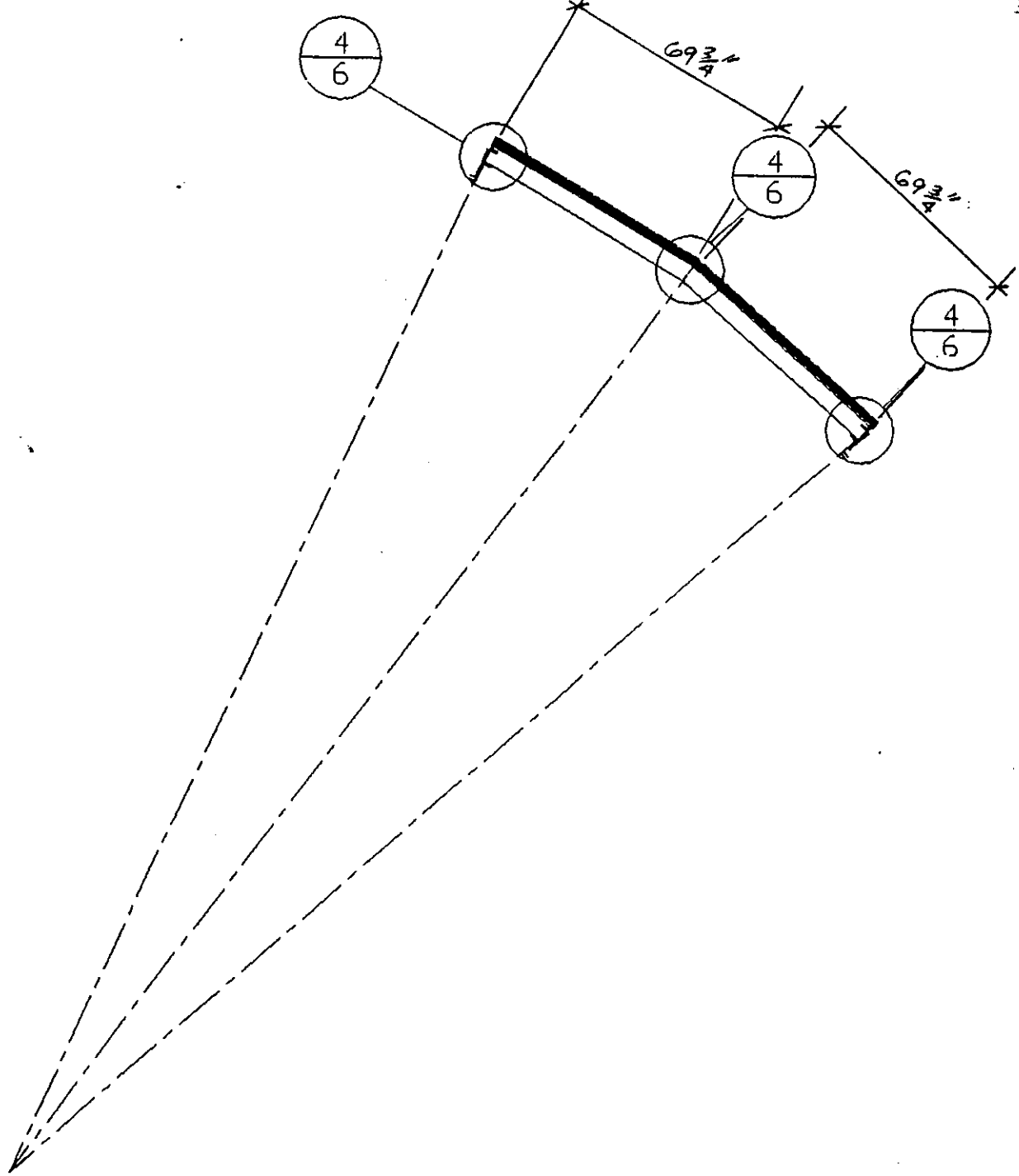
DETAILS

JOB NAME: BRANDON TOWN CENTER
CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-13-94

SHEET NO: 1 OF 6



SECTION

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



1715 West 135th Street
 Gardena, CA 90249
 FAX: ~~XXXXXXXXXX~~
 Phone: 213/770-0639

DETAILS

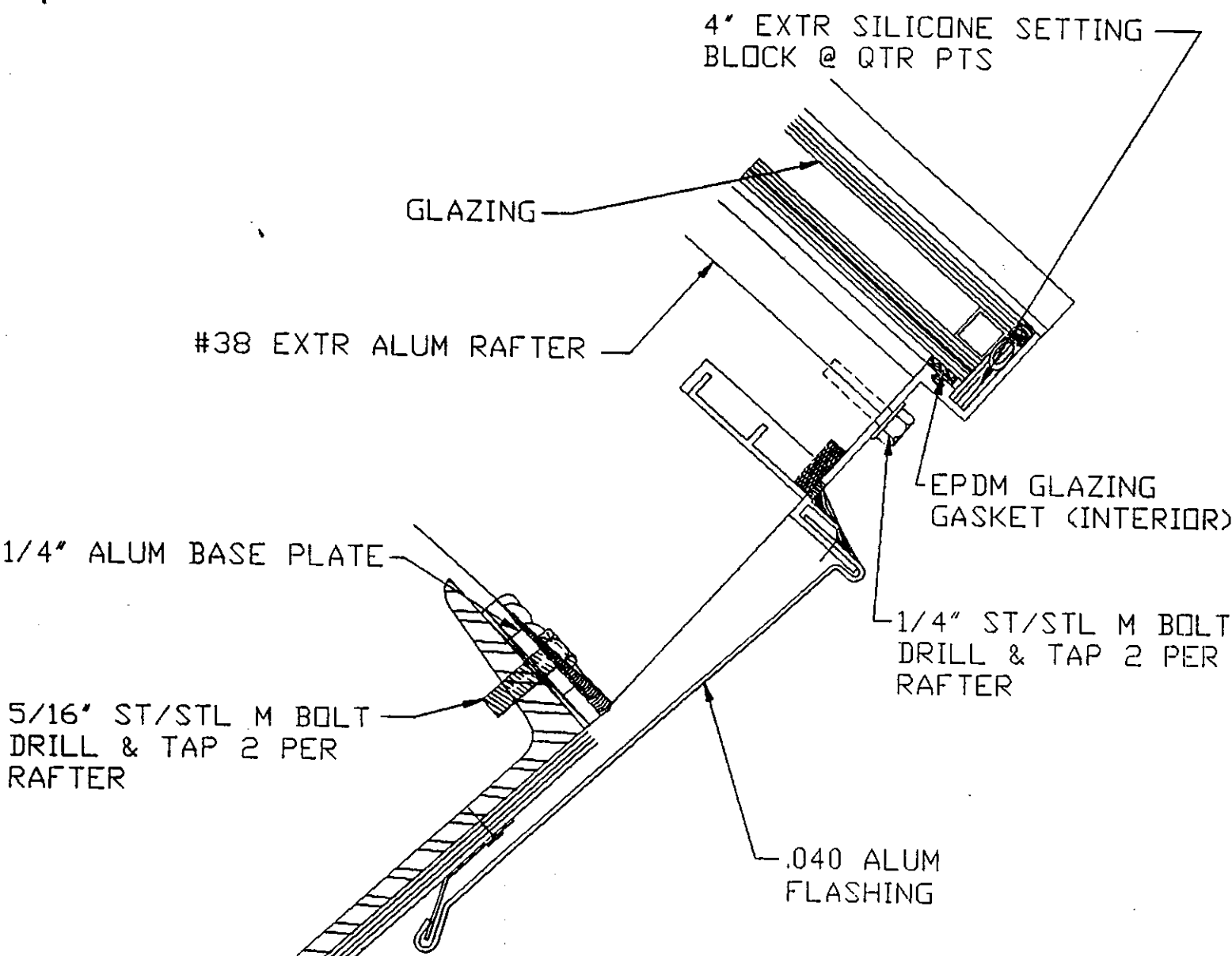
JOB NAME: BRANDON TOWN CENTER
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-19-94

SHEET NO: 2 OF 6

NOTE: SKYLIGHT MOCK-U. PERIMETER AND CURB BY TESTING LABORATORY PER THEIR REQUIREMENT.



SILL DETAIL

HALF SCALE

1



1715 West 135th Street
Gardena, CA 90249
FAX: [REDACTED]
Phone: 213/770-0639

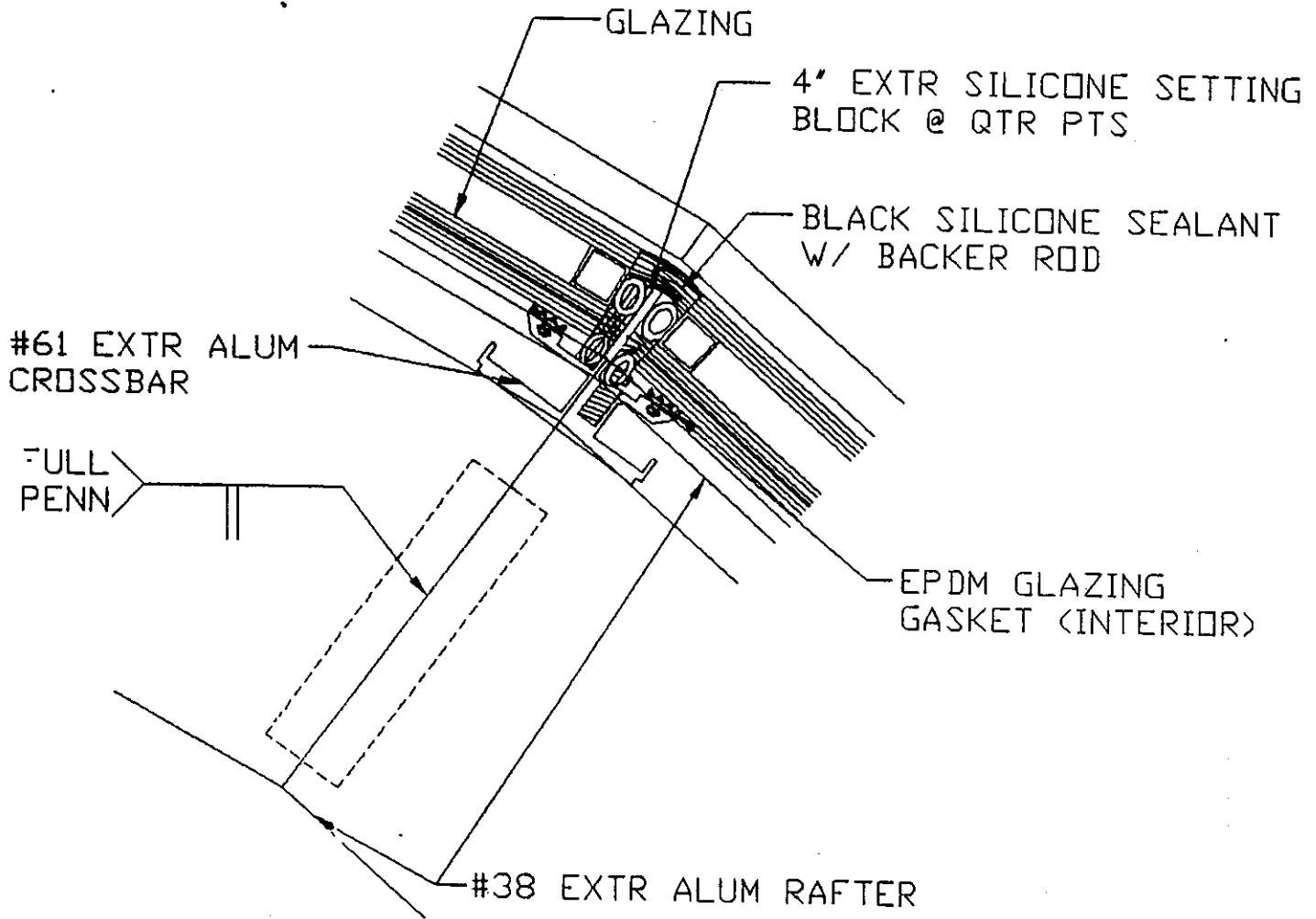
DETAILS

JOB NAME: BRANDON TOWN CENTER
CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-13-94

SHEET NO: 3 OF 6



CROSSBAR DETAIL

HALF SCALE

2



1715 West 135th Street
 Gardena, CA 90249
 FAX: [REDACTED]
 Phone: 213/770-0639

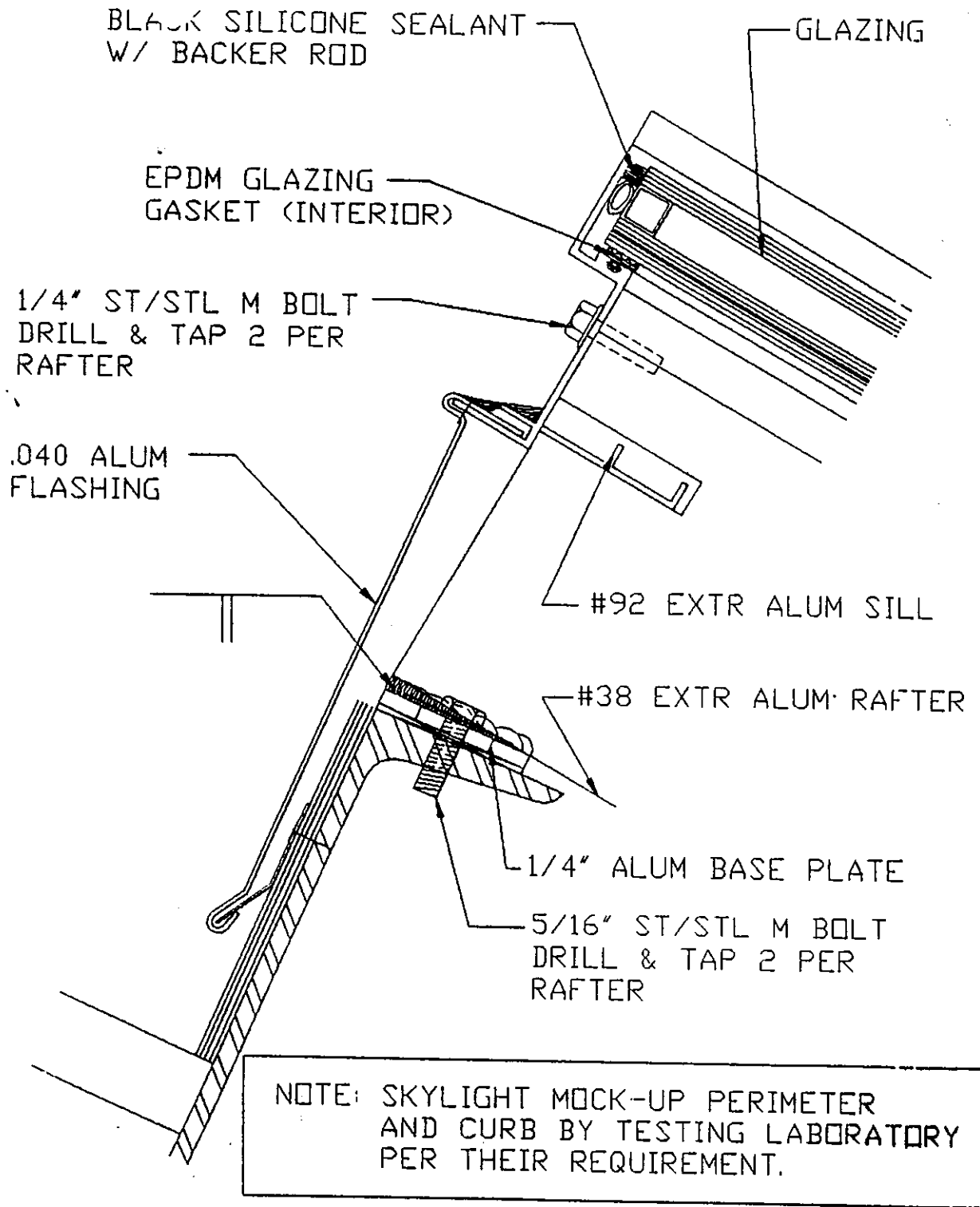
DETAILS

JOB NAME: BRANDON TOWN CENTER
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-19-94

SHEET NO: 4 OF 6



HEAD DETAIL

HALF SCALE

3



1715 West 135th Street
 Gardena, CA 90249
 FAX: ~~213/770-0639~~
 Phone: 213/770-0639

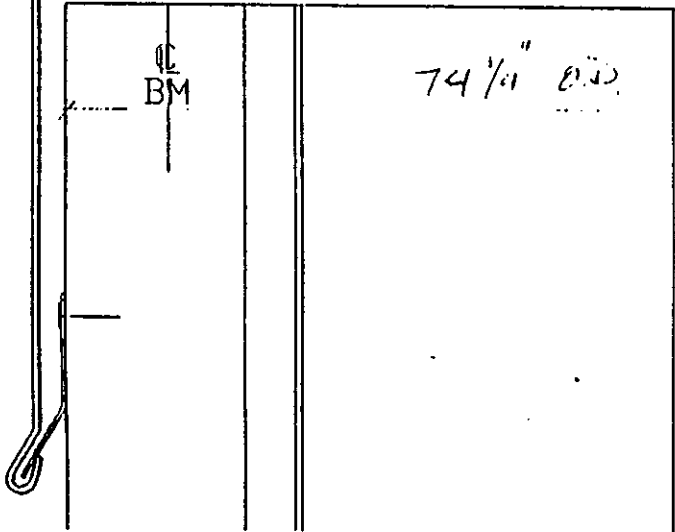
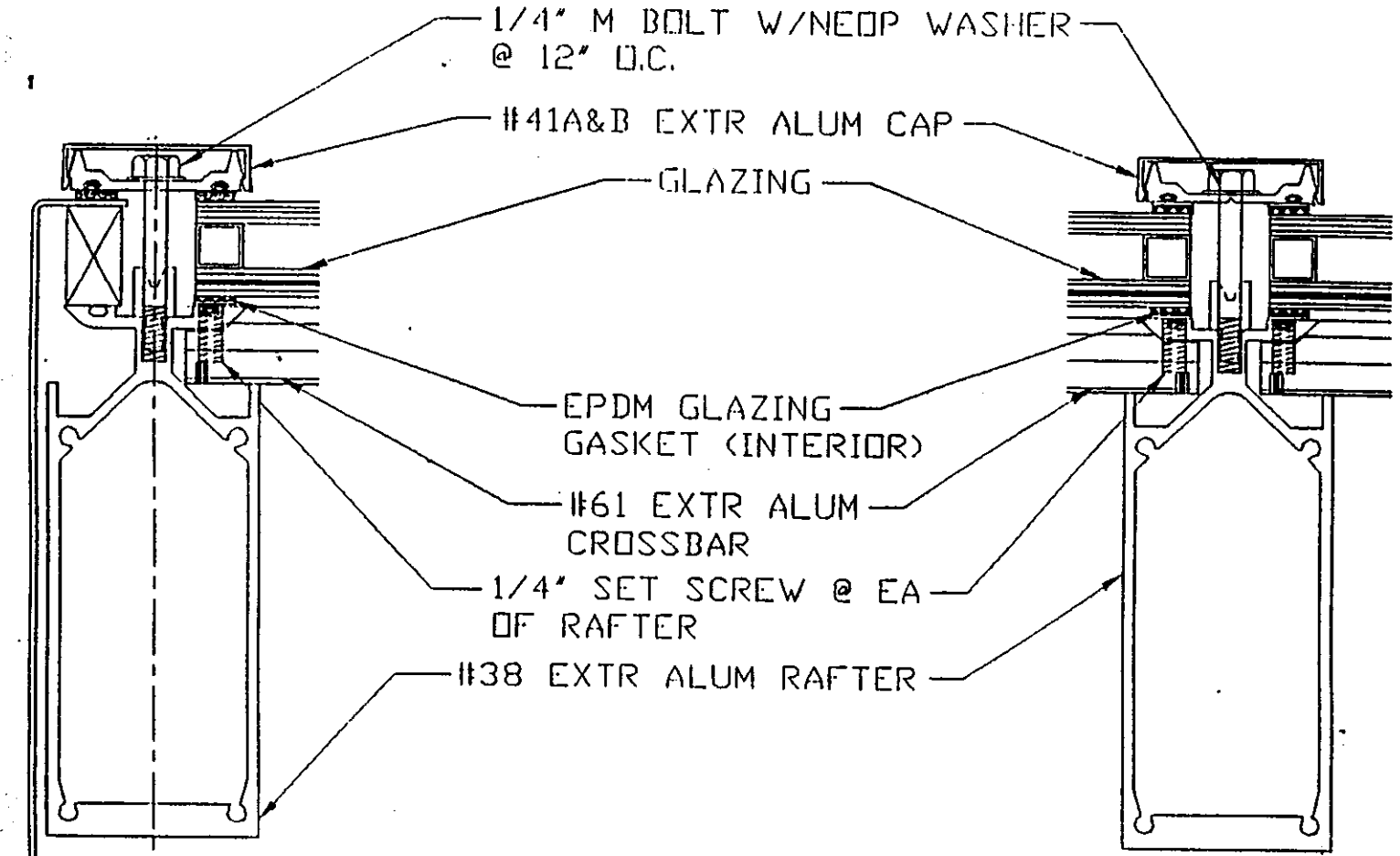
DETAILS

JOB NAME: BRANDON TOWN CENTER
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-19-94

SHEET NO: 5 OF 6



TYP RAFTER 5
 HALF SCALE

NOTE: SKYLIGHT MOCK-UP PERIMETER AND CURB BY TESTING LABORATORY PER THEIR REQUIREMENT.

END DETAIL 4
 HALF SCALE



1715 West 135th Street
 Gardena, CA 90249
 FAX: 213/770-9900
 Phone: 213/770-0639

DETAILS

JOB NAME: BRANDON TOWN CENTER
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710
 DATE: 01-19-94
 SHEET NO: 6 OF 6



781 East Washington Boulevard
P.O. Box 880550, Hunter's Point Shipyard Bldg. 114
5427 East La Palma Avenue

- Los Angeles, California 90021
- San Francisco, California 94188
- Anaheim, California 92807
- (213) 749-3411
- (415) 330-3000
- (714) 693-1026
- Fax: (213) 746-7228
- Fax: (415) 822-5864
- Fax: (714) 693-1034

REVISED: February 23, 1994

File No. 63587
Laboratory No. 94-E-111
P.O.#4619

February 18, 1994

Metcoe Specialties
1715 W, 135th Street
Gardena, California 90249

Attn: Morris

PROJECT: Brandon Town Center

SUBJECT: Mock-Up Test

REPORT OF TESTS

Location of Test: Smith-Emery Company
Los Angeles, California

Date: February 10, 1994

Uniform Structural Load test at 1.5 x design per ASTM E 330
Design Load 58.3 PSF
1.5 x design 87.4 PSF

A positive uniform of 87.4 PSF was applied to the sky lite for a period of 10 seconds after load was reached. Deflection readings were taken. See attached sheet for locations and readings.

ACCEPTANCE CRITERIA

Deflection of aluminum members shall not exceed L\175 or 3/4", whichever is less.

No failure to structural members or glass breakage is allowed.

TEST RESULTS

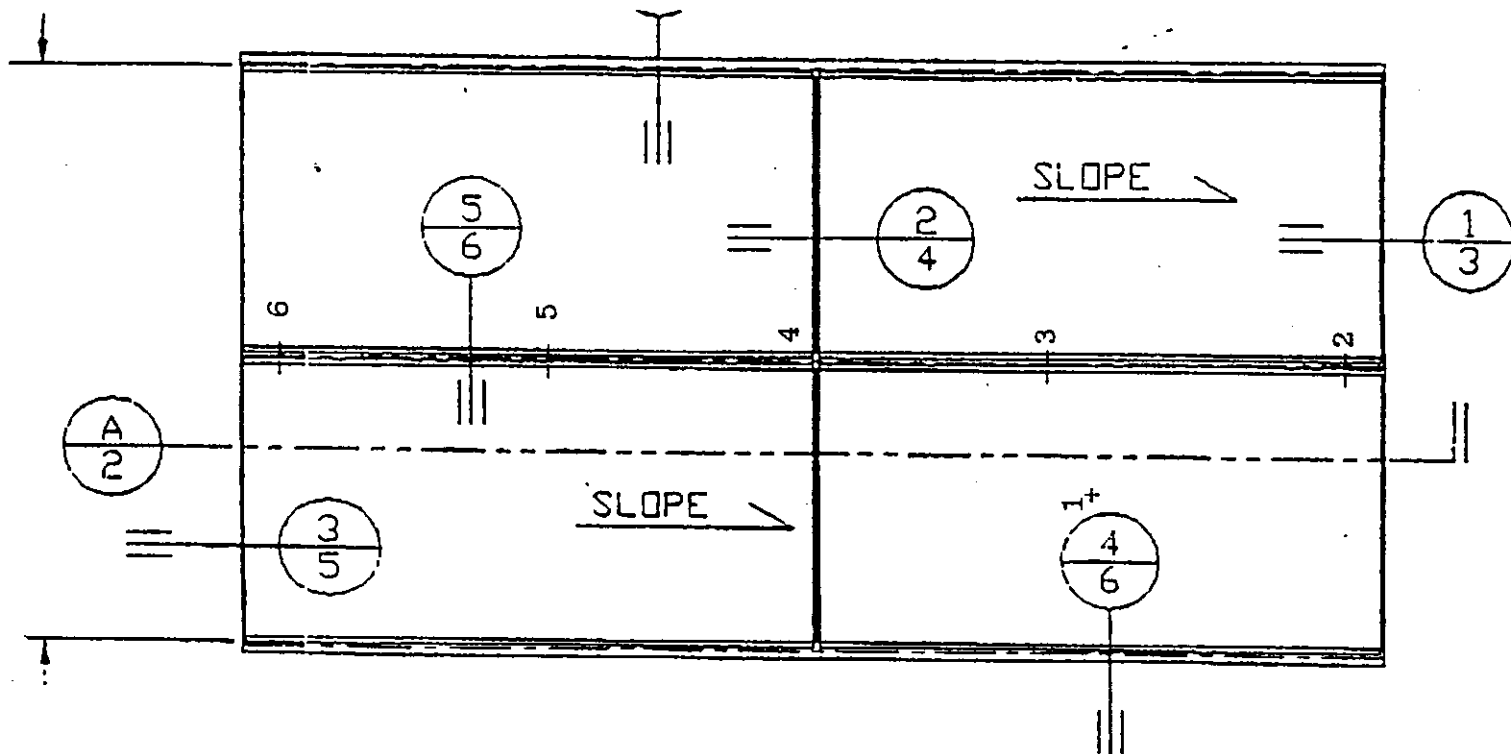
ACCEPTABLE

Respectfully submitted,

SMITH-EMERY COMPANY

James E. Parker
Registered Civil Engineer #41507
Registration Expires 12/31/95

JEP/jt



MOCK-UP PLAN

Deflection at 87.4 PSF Positive Load

1.	.484
2.	.025
3.	.440
4.	.608
5.	.440
6.	.014

Final Set after Load was Released

1.	.012
2.	.007
3.	.019
4.	.033
5.	.020
6.	.005

