



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

AGR Fabrications Inc.
16 Strathearn Ave. Suite 13 / 14
Brampton Ontar ,On L6T4P5

Your application for Notice of Acceptance (NOA) of:

Aluminum Railing Systems (Glazed and Picket)

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0223.03
EXPIRES: 08/30/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/30/2001

A. G. R. Fabrications, Inc.

ACCEPTANCE No. : 01-0223.03

APPROVED : 08/30/2001

EXPIRES : 08/30/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This approves Aluminum Railing Systems (Glazed and Picket) for balcony and stairs as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

These Aluminum Railing Systems (Glazed and Picket) for balcony and stairs and their components shall be constructed in strict compliance with the following documents: Drawing No. 00-345, titled "Aluminum Railing System", sheets 1 through 3 of 3, dated February 13, 2001, last revision #2 dated August 7, 2001, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

All permanent set components must be protected against corrosion, contamination and damage at all times. The structural adequacy of the supporting concrete slab and all other supporting structures is not part of this approval and shall be reviewed by the corresponding Building Department.

4. INSTALLATION

These Aluminum Railing Systems (Glazed and Picket) for balcony and stairs and their components shall be installed in strict compliance with the approved drawings.

5. LABELING

These Aluminum Railing Systems (Glazed and Picket) for balcony and stairs shall bear a permanent imprint/label with the manufacturer's name/logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

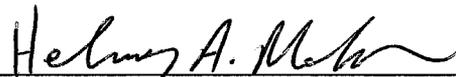
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division

A. G. R. Fabrications, Inc.

ACCEPTANCE No. : 01-0223.03

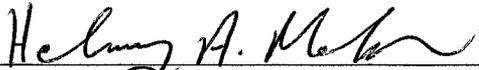
APPROVED : 08/30/2001

EXPIRES : 08/30/2006

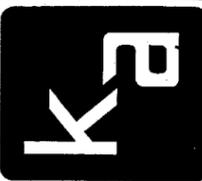
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1 through 3.

END OF THIS ACCEPTANCE



Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2888 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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ALUMINUM RAILING SYSTEM
A. G. R. FABRICATIONS INC.
 15 EAST NORTH STREET
 DOVER, DE 19901
 TEL: (800) 787-1014 FAX: (905) 792-9688

REVISIONS	
NO.	DESCRIPTION
1	06/27/01 ZS BCC COMMENTS
2	08/07/01 ZS BCC COMMENTS

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No:
 PE 0016983

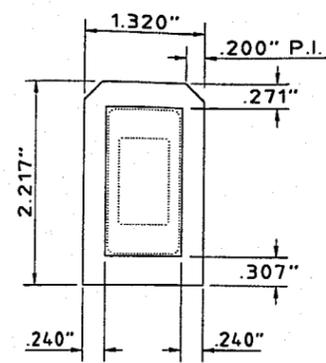
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE 08/30/2001
 BY *Heather A. McLean*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0223.03

AUG 07 2001

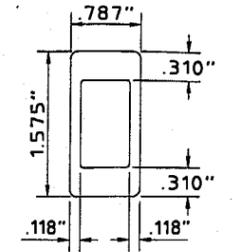
date	02/13/01
scale	AS NOTED
drawn by	AV
design by	ZS
checked by	VJK
drawing no.	00-345
sheet	1 of 3

GENERAL NOTES:

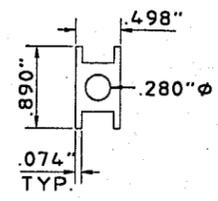
- THIS RAILING SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE, 1994 EDITION.
- THIS RAILING SYSTEM IS DESIGNED FOR THE FOLLOWING LOADS:
 - 50 POUNDS PER LINEAL FOOT IN ANY DIRECTION ON THE HANDRAIL.
 - 200 POUNDS CONCENTRATED LOAD IN ANY DIRECTION ON THE HANDRAIL.
 - GLAZED RAILING: REFERENCE TABLE 1 FOR MAXIMUM WIND LOADS AND POST SPACINGS.
 - PICKET RAILING, MAX. DESIGN WIND LOAD = 130 P.S.F. ON THE TOTAL PROJECTED SOLID AREA, Af.
 - WIND LOADS FOR RAILING SYSTEM SHALL BE CALCULATED IN ACCORDANCE WITH THE GOVERNING CODE REQUIREMENT FOR EACH SPECIFIC APPLICATION. CALCULATED WIND LOAD SHALL NOT EXCEED THOSE SHOWN ON THESE DRAWINGS THE FOLLOWING CRITERIA ARE APPLICABLE TO THIS SYSTEM WHEN ASCE 7-88 OR 7-98 ARE USED TO DETERMINE WIND LOADS:
 - GLAZED RAILING - Cf = 1.2 AND Af = GROSS AREA
 - PICKED RAILING - Cf = 1.8 AND Af = .17 x GROSS AREA
- THIS RAILING SYSTEM WITH GLAZING COMPLIES WITH ANSI Z97.1 AND AN IMPACT LOAD OF 400 FT-LBS. GLAZING SHALL CONSIST OF 3/8" TEMPERED GLASS IN ACCORDANCE WITH AMERICAN TEST LAB OF SOUTH FLORIDA (ATLSF) TEST REPORT No. 1115.01-00
- ALL EXTRUSIONS AND CASTINGS SHALL BE ALUMINUM WITH ALLOYS AS NOTED ON DRAWINGS.
- ALL SCREWS AND BOLTS SHALL BE 2024-T4 ALUMINUM ALLOY OR STAINLESS STEEL WITH A MINIMUM Fy = 30 KSI.
- THE ADEQUACY OF THE EXISTING STRUCTURE TO SUPPORT THE RAILING SYSTEM SHALL BE VERIFIED BY A PROFESSIONAL ENGINEER.



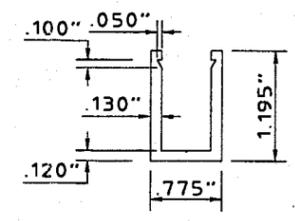
1 POST
 SCALE: HALF SIZE
 6005-T6 ALUM. ALLOY



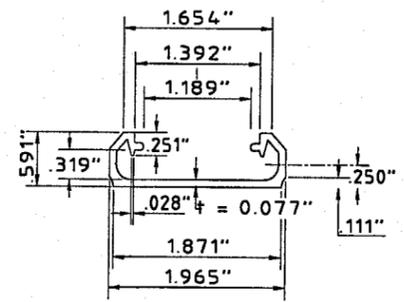
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 SCALE: HALF SIZE
 6005-T6 ALUM. ALLOY



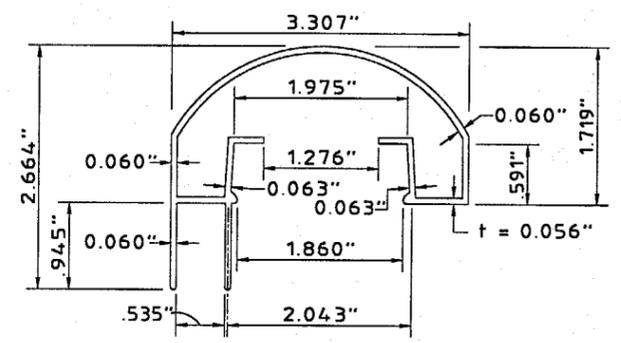
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 SCALE: HALF SIZE
 6005-T6 ALUM. ALLOY



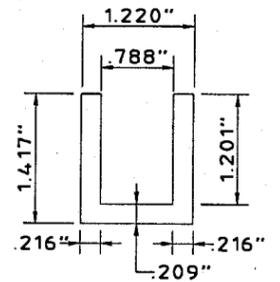
3 CHANNEL
 SCALE: HALF SIZE
 6063-T6 ALUM. ALLOY
 (TO BE USED WITH PANEL HOLDER 7)



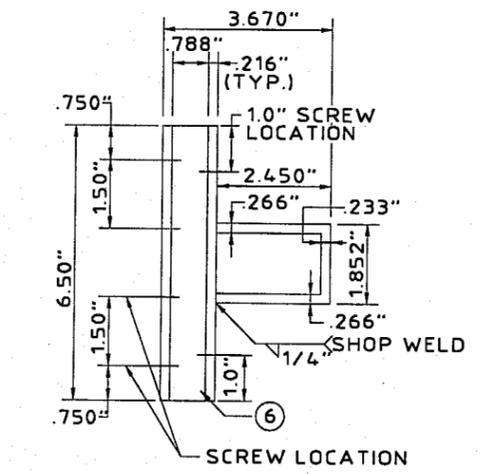
4 RAIL CHANNEL
 SCALE: HALF SIZE
 6063-T6 ALUM. ALLOY



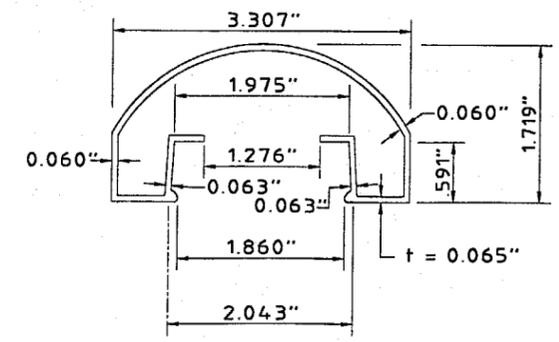
5 GLASS RAIL
 SCALE: HALF SIZE
 6063-T6 ALUM. ALLOY



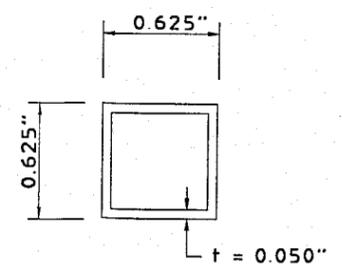
6 GLAZING RAIL
 SCALE: HALF SIZE
 6063-T6 ALUM. ALLOY



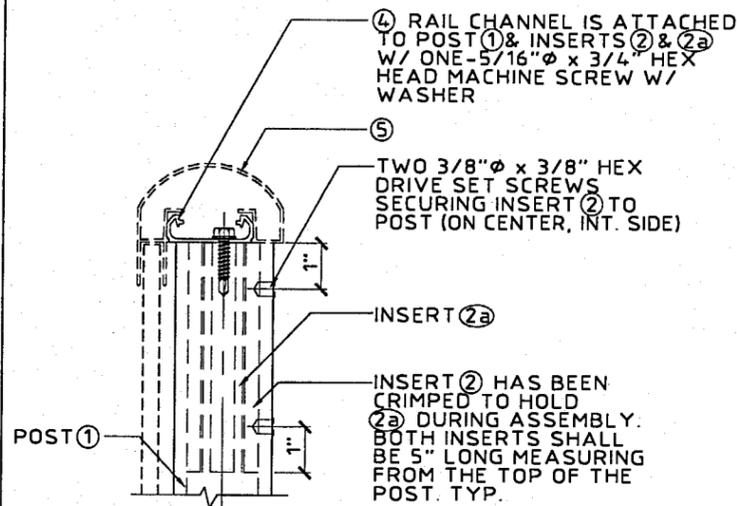
7 PANEL HOLDER ASSEMBLY
 SCALE: 3" = 1' - 0"
 6063-T6 ALUM. ALLOY



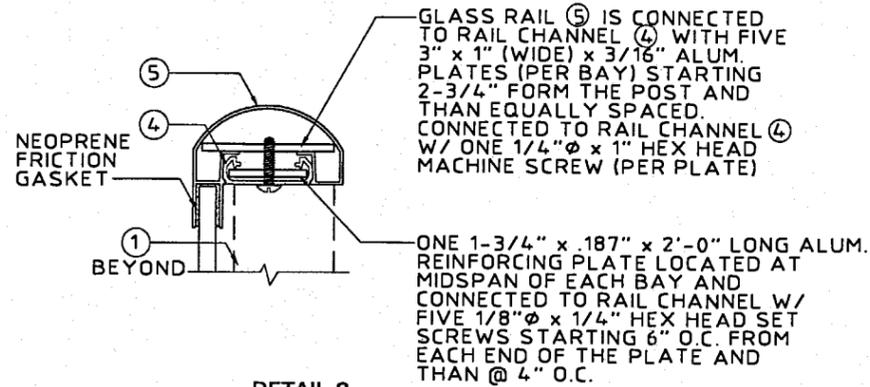
8 PICKET TOP RAIL
 SCALE: HALF SIZE
 6063-T6 ALUM. ALLOY



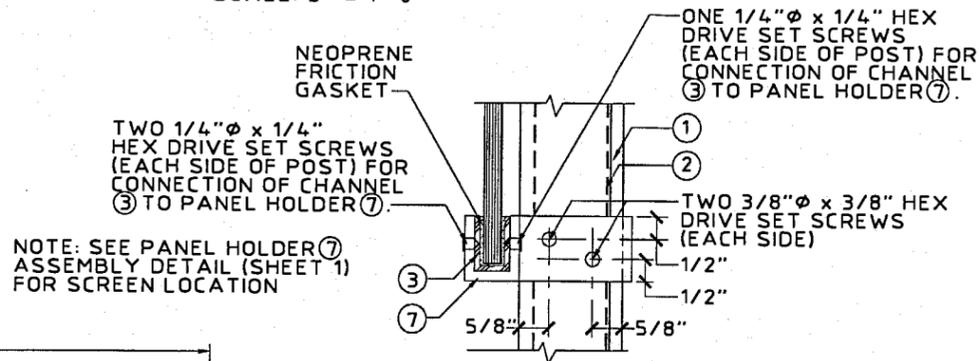
9 PICKET
 SCALE: FULL SIZE
 6063-T5 ALUM. ALLOY



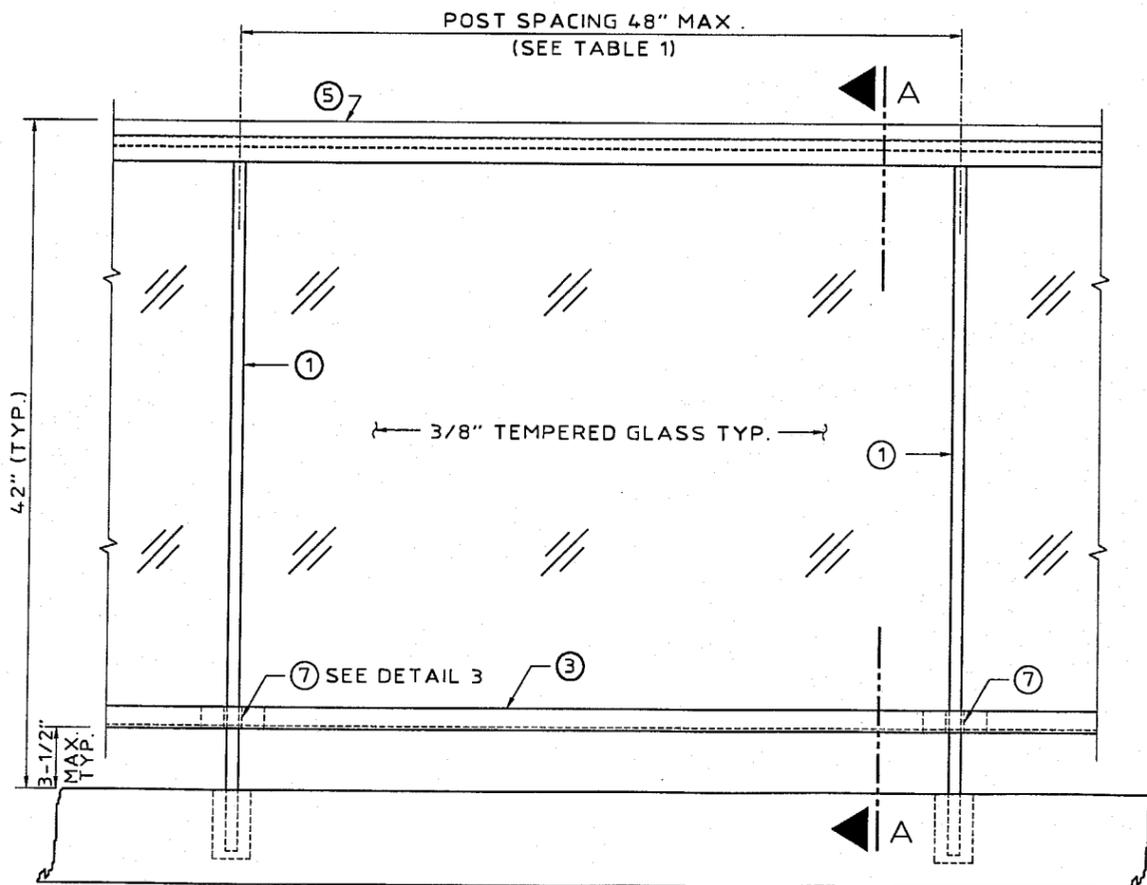
**DETAIL 1
(RAIL CHANNEL TO
POST CONNECTION)**
SCALE: 3" = 1'-0"



**DETAIL 2
(GLASS RAIL TO RAIL
CHANNEL CONNECTION)**
SCALE: 3" = 1'-0"

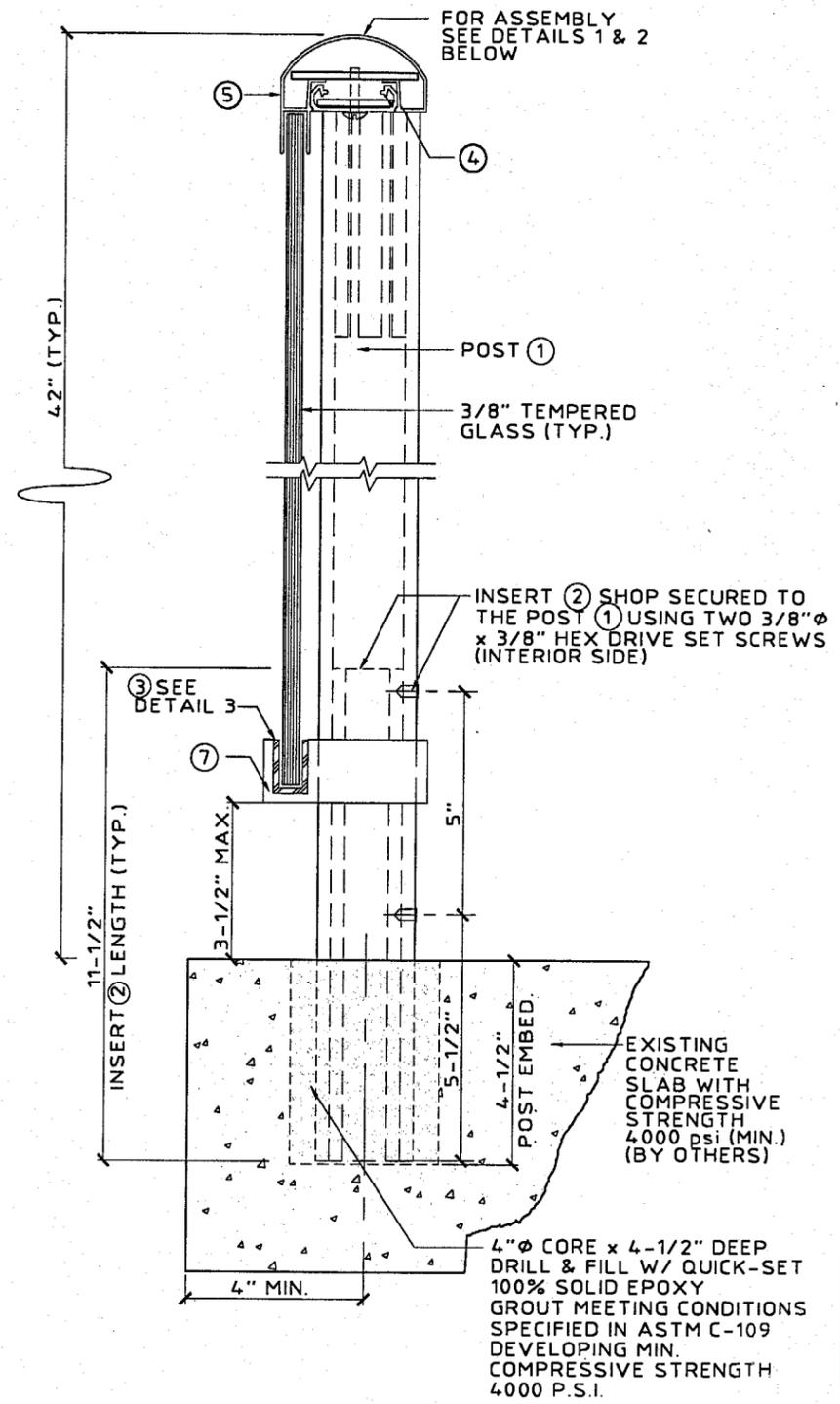


DETAIL 3
SCALE: 3" = 1'-0"



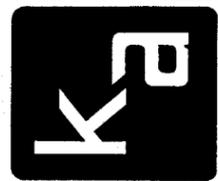
GLAZED RAILING - TYPICAL BAY ELEVATION
SCALE: 1-1/2" = 1'-0"

GLAZED RAILING ASSEMBLY POST SPACING FOR A GIVEN WIND LOAD (POSITIVE OR NEGATIVE)		
T A B L E	WIND LOAD P.S.F.	POST SPACING (FT - IN)
1	UP TO 85.5	4' - 0"
	85.6 - 87.1	3' - 11"
	87.2 - 88.6	3' - 10"
	88.7 - 90.0	3' - 9"
	90.1 - 92.5	3' - 8"
	92.6 - 94.7	3' - 7"
	94.8 - 96.7	3' - 6"
	96.8 - 99.3	3' - 5"



SECTION A-A
SCALE: 3" = 1'-0"

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE: 08/30/2001
BY: *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0223-03



KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2989 • FLORIDA COA #3205
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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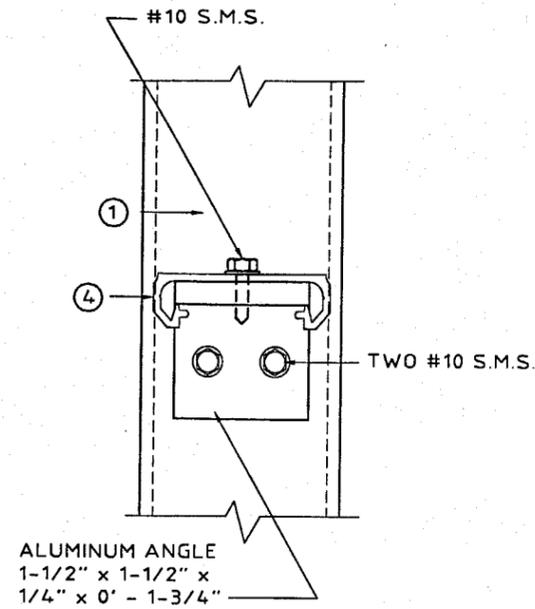
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REVISIONS		
no.	date	description
1	06/27/01	BCC COMMENTS
2	08/07/01	BCC COMMENTS

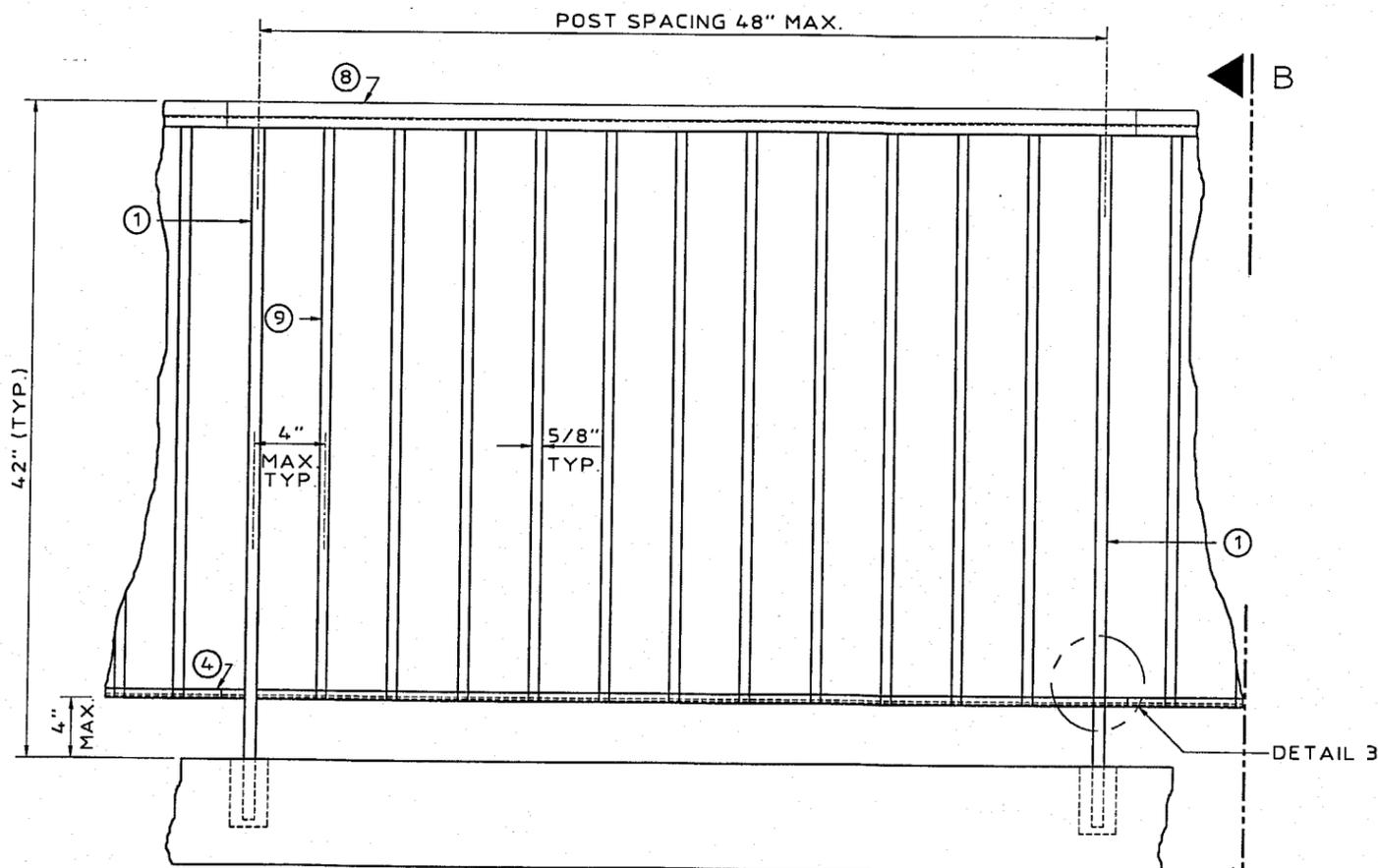
V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No:
PE 0010983

AUG 07 2001

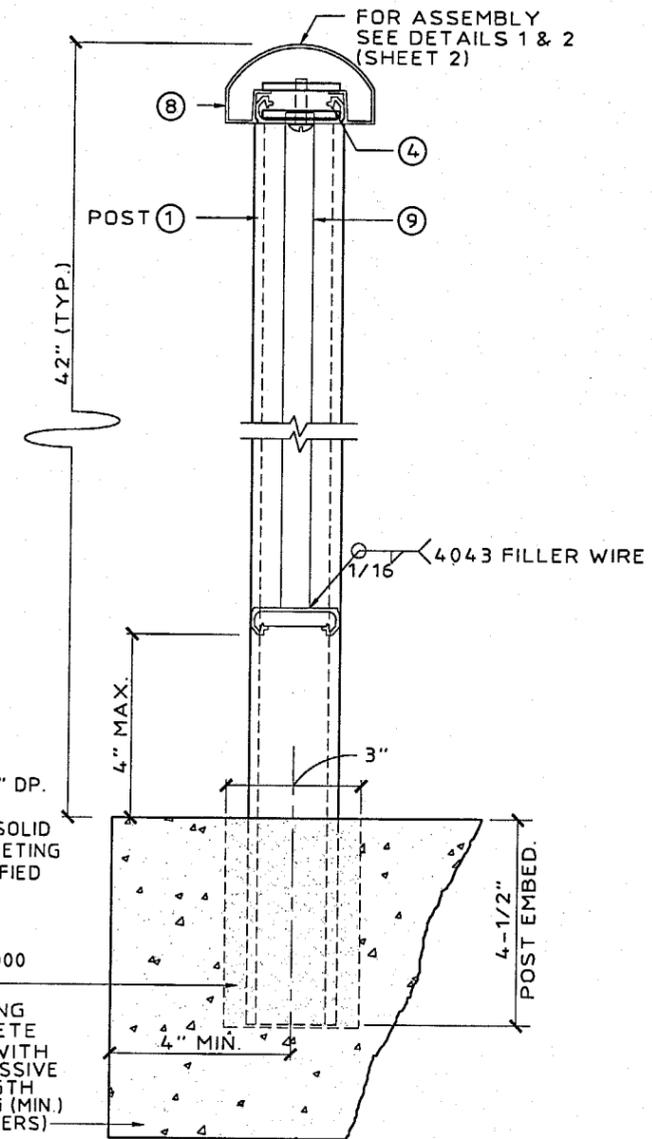
date: 02/13/01
scale: AS NOTED
drawn by: AV
design by: ZS
checked by: VJK
drawing no.: 00-345
sheet 2 of 3



**DETAIL 3 - RAIL CHANNEL
TO POST CONNECTION**
SCALE : N.T.S.



PICKET RAILING-ELEVATION
SCALE : 1-1/2" = 1'-0"



SECTION B-B
SCALE : 3" = 1'-0"

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 08/30/2001
BY V. J. Knezevich
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0223.03

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REVISIONS	
no.	description
1	06/27/01 ZS BCCO COMMENTS
2	09/07/01 ZS BCCO COMMENTS

V. J. KNEZEVICH
PROFESSIONAL ENGINEER
Fl. License No:
PE 0010983

AUG 04 2001

date 02/13/01
scale AS NOTED drawn by AV
design by ZS checked by VJK

drawing no.
00-345
sheet 3 of 3