



MIAMI-DADE COUNTY
 BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 375-2908

www.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

Cemusa Miami, Ltd.
2119 NW 84th Avenue
Miami, Florida 33126

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Miami Bus Shelter Slim Version W/O Oppi Pal-Li Solar Display Panel

APPROVAL DOCUMENT: Drawing No. 07-229, titled "Miami Bus Shelter Slim Version W/O Oppi Pal-Li Solar Display Panel", sheets 1 through 15 of 15, prepared by Tilteco, Inc., dated 09/13/2007, last revision #2 dated 04/02/2008, signed and sealed by Walter A. Tillit Jr., P.E., bearing Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number & approval date by Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each bus shelter shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This approval is limited to only the Structural Adequacy of the Bus Shelter and the display unit. All others are not part of this Approval.

This NOA consists of this page 1, the evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
 09/11/2008

NOA No. 08-0804.06
 Expiration Date: 09/11/2013
 Approval Date: 09/11/2008
 Page 1

Cemusa Miami, Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS:

1. *Drawing No. 07-229, titled " Miami Bus Shelter Slim Version W/O Oppi Pal-Li Solar Display Panel", sheets 1 through 15 of 15, prepared by Tilteco, Inc., dated 09/13/2007, last revision #2 dated 04/02/2008, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS:

1. *Test report on Uniform Static Air Pressure Test, TAS 202, of bus shelter roof panel, prepared by Fenestration Testing Laboratory, Inc., Report No. 3867, dated September 4, 2003, signed and sealed by Joseph Chan, P.E.*
2. *Test report on Uniform Static Air Pressure Test, TAS 202, of bus shelter solar roof panel, prepared by Fenestration Testing Laboratory, Inc., Report No. 3795, dated July 3, 2003, signed and sealed by Joseph Chan, P.E.*
3. *Test report on Uniform Static Air Pressure Test, TAS 202, of bus shelter rear panel back section, prepared by Fenestration Testing Laboratory, Inc., Report No. 3891, dated September 4, 2003, signed and sealed by Joseph Chan, P.E.*
4. *Test report on Uniform Static Air Pressure Test, TAS 202, of bus shelter roof panel, prepared by Fenestration Testing Laboratory, Inc., Report No. 3901, dated September 4, 2003, signed and sealed by Joseph Chan, P.E.*
5. *Test report on Uniform Static Air Pressure Test, TAS 202, of bus shelter solar display panel, prepared by Fenestration Testing Laboratory, Inc., Report No. 3792, dated September 4, 2003, signed and sealed by Joseph Chan, P.E.*
6. *Test report on Uniform Static Air Pressure Test, TAS 202, of bus shelter solar display panel, prepared by Fenestration Testing Laboratory, Inc., Report No. 3788, dated September 4, 2003, signed and sealed by Joseph Chan, P.E.*
7. *Test report on Gravity Load Test, of bus shelter Steel Rolled form Bench, prepared by Fenestration Testing Laboratory, Inc., Report No. 3920, dated September 3, 2003, signed and sealed by Joseph Chan, P.E.*

C. CALCULATIONS:

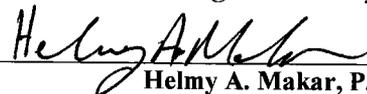
1. *Miami Bus Shelter Slim Version W/O Oppi Pal-Li Solar Display Panel design and anchor analysis dated August 01, 2008, Pages 1 through 34 of 34, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE:

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *Mill Certified Test Report issued by Amerimet Corporation, dated 07/16/03 with chemical composition and mechanical properties of aluminum alloy 3003-H154.*
2. *Tensile Test Report No. 3926, prepared by Fenestration Testing Laboratory, Inc.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0804.06
Expiration Date: 09/11/2013
Approval Date: 09/11/2008

CEMUSA MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

GENERAL NOTES:

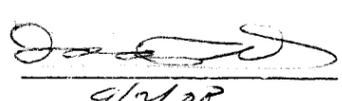
(I) MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

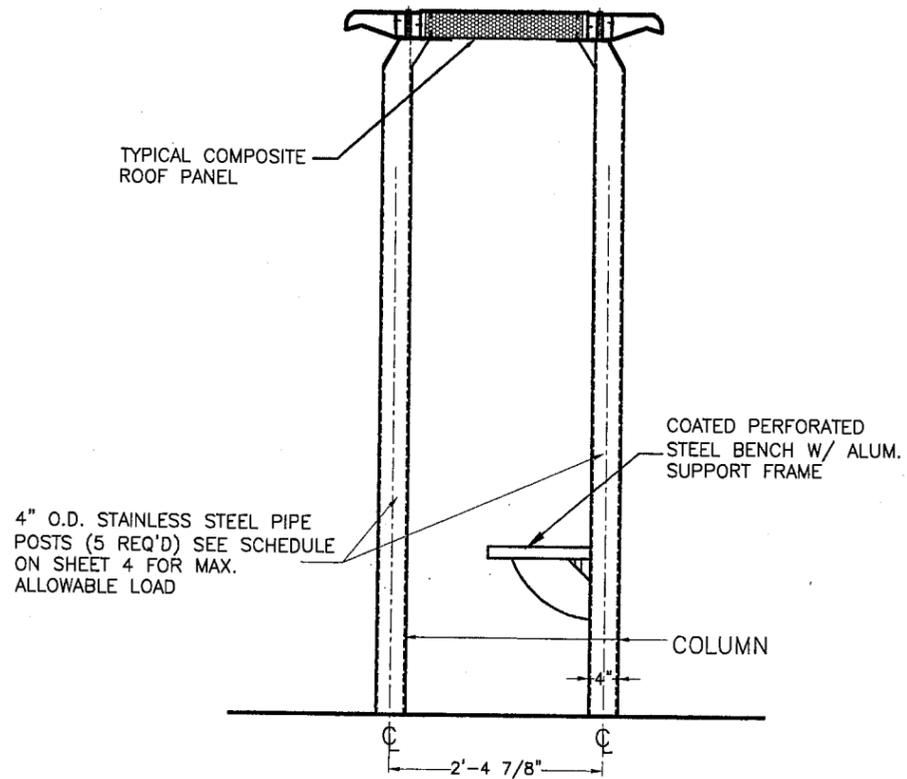
- 1.- MIAMI BUS SHELTER SLIM VERSION SHOWN ON THIS DRAWING HAS BEEN VERIFIED FOR CODE COMPLIANCE USING INFORMATION FROM A CURRENT MIAMI-DADE COUNTY NOA (#06-0503.09), WHICH CORRESPONDING TO A LARGER SHELTER SIZE IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE, WITH THE 2005, 2006 AND 2007 SUPPLEMENTS. DESIGN WIND LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH SECTION 1620 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED OF 146 M.P.H. AND IN ACCORDANCE WITH ASCE 7-02 STANDARD. TESTING FOR WIND CAPACITY INCLUDED ON ABOVE MENTIONED NOA WAS PERFORMED IN ACCORDANCE OF TAS-202 AND AS PER ASTM E-330 STANDARD, PER FENESTRATION TESTING LAB REPORTS # 3867, 3795, 3891, 3901 AND 3925. THIS STRUCTURE SHALL ONLY BE INSTALLED WHERE DESIGN WIND LOADS DO NOT EXCEED THE MAXIMUM VALUES INDICATED BELOW.
 MAXIMUM DESIGN LOADS ARE:
 DEAD LOADS ON STRUCTURAL ROOF: 5.0 P.S.F.
 LIVE LOADS ON STRUCTURAL ROOF: 30 P.S.F.
 WIND LOADS:
 - ON STRUCTURAL ROOF: +80, -80 P.S.F. (S.F.=2.00)
 - ON REAR GLASS WALL: +50, -61 P.S.F. (S.F.=1.50)
- 2.- ALL STEEL POSTS AND PLATES TO BE MADE OF AISI 304 SERIES WITH A MINIMUM YIELD STRENGTH OF 42.0 ksi.
- 3.- ALL ALUMINUM EXTRUSIONS SHALL BE MADE OF A MINIMUM ALUMINUM ASSOCIATION ALLOY AND TEMPER CORRESPONDING TO 6063-T6.
4. ALUMINUM EXTRUSIONS IN CONTACT WITH STEEL SHALL BE PROTECTED APPLYING KOPPERS BITUMINOUS PAINT ACCORDING TO F.B.C. SECTION 2003.8.4.2.
5. BENCH MATERIAL SHALL BE ASTM A-1011 HOT ROLLED STEEL, W/ A MINIMUM YIELD STRENGTH OF 40.0 ksi, PAINTED AS PER FEDERAL SPECIFICATIONS CORRESPONDING TO RED OXIDE PAINT OR EQUAL. MATERIAL TO BE COATED WITH DENFLEX PX-12412 PVC PLASTISOL COATING, 0.125" THICK, AS MANUFACTURED BY POLYONE, CHICAGO, ILLINOIS W/ 10.4 Lb/Gallon DENSITY, 2300 psi TENSILE STRENGTH (ASTM D-412), 419 ppi TEAR STRENGTH (ASTM D-624).
 COATING WAS EXPOSED FOR 1000 hrs. IN A QUV ULTRAVIOLET CHAMBER, RESULTING ON SOME LOSS OF GLOSS BUT NO PHYSICAL PROPERTY DEGRADATION. COATING SHALL MAINTAIN A COMFORTABLE TEMPERATURE OF BENCH'S SURFACE UNDER EXTREME WEATHER CONDITIONS (HOT OR COLD). THIS ENGINEER IS NOT RESPONSIBLE FOR THE THERMAL PERFORMANCE OF THIS COATING, WHICH SHALL BE GUARANTEED BY THE COATING MANUFACTURER. MAXIMUM BENCH CAPACITY IS 640 Lbs.
- 6.- ALL MACHINE SCREWS & BOLTS TO BE AISI 304 OR 316 SERIES STAINLESS STEEL. MINIMUM SHEAR STRENGTH SHALL BE 60.0 ksi. MINIMUM TENSILE STRENGTH SHALL BE 90.0 ksi. AS PER ASTM A-276 STANDARD. ALL SHEET METAL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH.
- 7.- ALL RIVETS TO BE STAINLESS STEEL WITH A MINIMUM OF 550 LB. SHEAR STRENGTH AND 700 LB. MINIMUM TENSILE STRENGTH.
- 8.- ALL WELDING OF STAINLESS STEEL MEMBERS SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY AWS D1.6 REGULATIONS. ELECTRODES SHALL BE MADE OF STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 80.0 ksi (A.W.S. CLASSIFICATION E-308, E309 OR EQUAL. ALL WELDING OF ALUMINUM MEMBERS TO CONFORM WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 REGULATIONS. USE E-5556 OR 5356 ELECTRODES. USE CERTIFIED WELDERS.
- 9.- STRUCTURAL INSULATED ROOF PANEL IS A 3" THICK 1LB/FT³ DENSITY EXPANDED POLYSTYRENE AS MANUFACTURED BY APACHE PRODUCTS COMPANY. MERIDIAN. MS 39302. MIAMI DADE COUNTY APPROVAL, WITH 0.035" THICK. (STUCCO EMBOSSED) 3003-H154, ALUMINUM SKIN (W/ A MINIMUM YIELD STRENGTH OF 28.00 ksi) TOP AND BOTTOM AND ADHERED TO POLYSTYRENE TO SKIN WITH MOR-AD M-464 URETHANE PREPOLYMER SOLUTION, PRODUCED BY MORTON INTERNATIONAL, INC. CHICAGO, ILLINOIS 60606-1598.
- 10.- GLASS AT REAR WALL OF BUS SHELTER SHALL BE 10mm THICK, TEMPERED AND SHALL COMPLY WITH SECTION 2411.1.3 OF THE FLORIDA BUILDING CODE.
- 11.- ANCHORS USED TO CONNECT POST'S BASE PLATES TO CONCRETE FOUNDATION SHALL BE EITHER OF THE FOLLOWING TYPES:
 (a.) 5/8" DIAMETER ALL THREADED RODS AND NUTS, AISI 304 SERIES, WITH POWERS FASTENERS INC. POWER-FAST EPOXY INJECTION GEL. RODS TO PENETRATE A MINIMUM OF 5 5/8" IN TO THE EPOXY
 MINIMUM ALLOWABLE TENSION LOAD CAPACITY: 4835 LB.
 MINIMUM ALLOWABLE SHEAR LOAD CAPACITY: 5700 LB.
 (b.) 5/8" DIAMETER GALVANIZED STEEL ANCHOR BOLTS, WITH STRAIGHT SHAFT, HEAD AND NUT. TO COMPLY WITH ASTM F1554, GALVANIZED TO ASTM A-153 WITH A MINIMUM YIELD STRENGTH OF 36ksi, AND TO PENETRATE A MINIMUM OF 8" IN TO THE EPOXY TO THE CONCRETE FOUNDATION. MINIMUM ALLOWABLE TENSION LOAD CAPACITY: 6200 LB.
 MINIMUM ALLOWABLE SHEAR LOAD CAPACITY: 3100 LB.
 ANCHORS SHALL BE INSTALLED STRICTLY FOLLOWING THE SPECIFICATIONS OF THE ANCHOR MANUFACTURER AND THE DETAILS SHOWN ON THIS PRODUCT APPROVAL DOCUMENT.
- 12.- ALL CONCRETE TO DEVELOP A 28 DAY MINIMUM COMPRESSIVE STRENGTH f'c OF 3000 psi. ALL REBARS TO BE ASTM A-615 DEFORMED BARS. ALL CONCRETE CONSTRUCTION TO COMPLY WITH ACI 318-02 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

(II) MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

- 1.- ALL MECHANICAL DETAILS AND SPECIFICATIONS, AS APPLICABLE, ARE NOT PART OF THIS DRAWING. THEY SHALL BE PREPARED A FLORIDA REGISTERED ENGINEER OR ARCHITECT AND SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.
- 2.- ALL ZONING DETAILS AND SPECIFICATIONS NEEDED FOR THE LOCATION, USE AND CONSTRUCTION OF BUS SHELTER SLIM VERSION IS NOT PART OF THIS DRAWING AND SHALL BE SUBMITTED SEPARATELY TO THE CORRESPONDING ZONING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.
- 3.- MINIMUM SOIL BEARING CAPACITY SHALL BE 2000 P.S.F.
- 4.- SHELTER'S DIMENSIONS HAVE BEEN PROVIDED TO THIS OFFICE BY CEMUSA AND THEY NOT HAVE BEEN ESTABLISHED BY THIS OFFICE.
- 5.- (a.) THIS DRAWING PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE DRAWING.
 (b.) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS DRAWING PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
 (c.) THIS DRAWING WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
 (d.) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE DRAWING. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THIS ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
 (e.) THIS DRAWING SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- 6.- FINISH COLOR FOR BUS SHELTER SLIM VERSION IS NOT PART OF THIS DRAWING, BUT SHALL BE DEFINED AS PER AGREEMENT BETWEEN MANUFACTURER AND OWNER OF BUS SHELTER.
7. THIS DRAWING IS A GENERIC STRUCTURAL DRAWING AND DOES NOT CONSTITUTE AT ALL A SHOP DRAWING FOR THE DIRECT MANUFACTURING OF THIS BUS SHELTER.

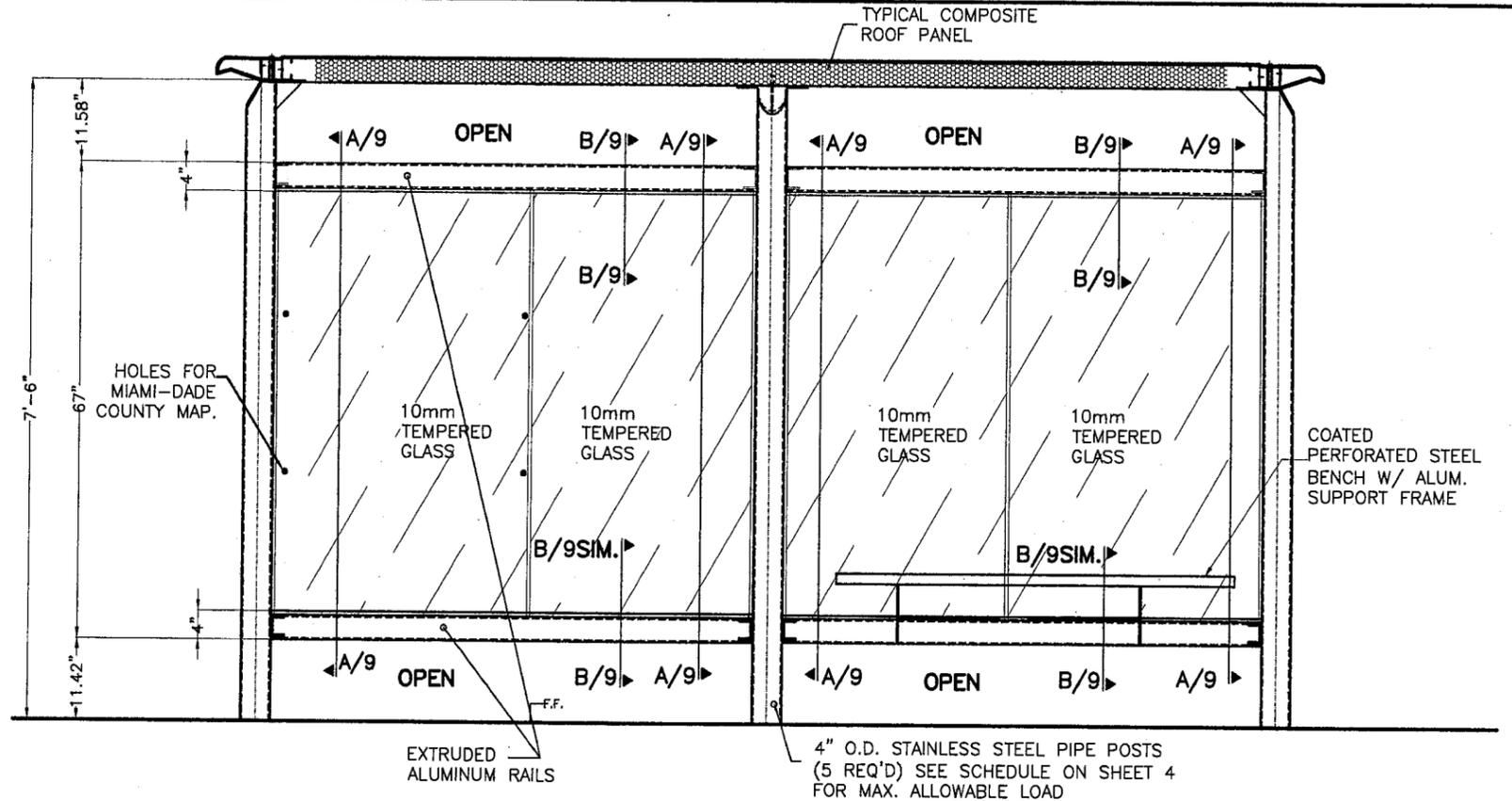
Approved as complying with the
 Florida Building Code
 Date: 09/11/2008
 NOA# 08-0804.06
 Miami Dade Product Control
 Division:
 By: *Helmy A. M...*

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---------|---------------|---|--------|-------------------|-------|-------|--------------|--|--|------------|--|
|  9/2/08 P.E. SEAL/SIGNATURE/DATE |  TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166 Phone:(305)871-1530, Fax:(305)871-1531 EB-0008719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL |  CORPORATION EUROPEA DE MOBILIARIO URBANO S.A. <small>Oficina central: c/ Francisco Senche nº 24 Tel.: 356 33 44 - Fax 356 06 67-28034 Madrid</small> | DRAWN BY: M.C.V. 9-13-07 DATE: 07-229 DRAWING No. SHEET 1 OF 15 | | | | | | | | | | | | |
| GENERAL NOTES | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">1</td> <td style="width: 15%;">10/8/07</td> <td style="width: 80%;">O.C. COLUMNS.</td> </tr> <tr> <td>2</td> <td>4/2/08</td> <td>(I) GENERAL NOTES</td> </tr> <tr> <td>No. 1</td> <td>Date:</td> <td>Description:</td> </tr> <tr> <td></td> <td></td> <td>Revisions:</td> </tr> </table> | 1 | 10/8/07 | O.C. COLUMNS. | 2 | 4/2/08 | (I) GENERAL NOTES | No. 1 | Date: | Description: | | | Revisions: | |
| 1 | 10/8/07 | O.C. COLUMNS. | | | | | | | | | | | | | | |
| 2 | 4/2/08 | (I) GENERAL NOTES | | | | | | | | | | | | | | |
| No. 1 | Date: | Description: | | | | | | | | | | | | | | |
| | | Revisions: | | | | | | | | | | | | | | |



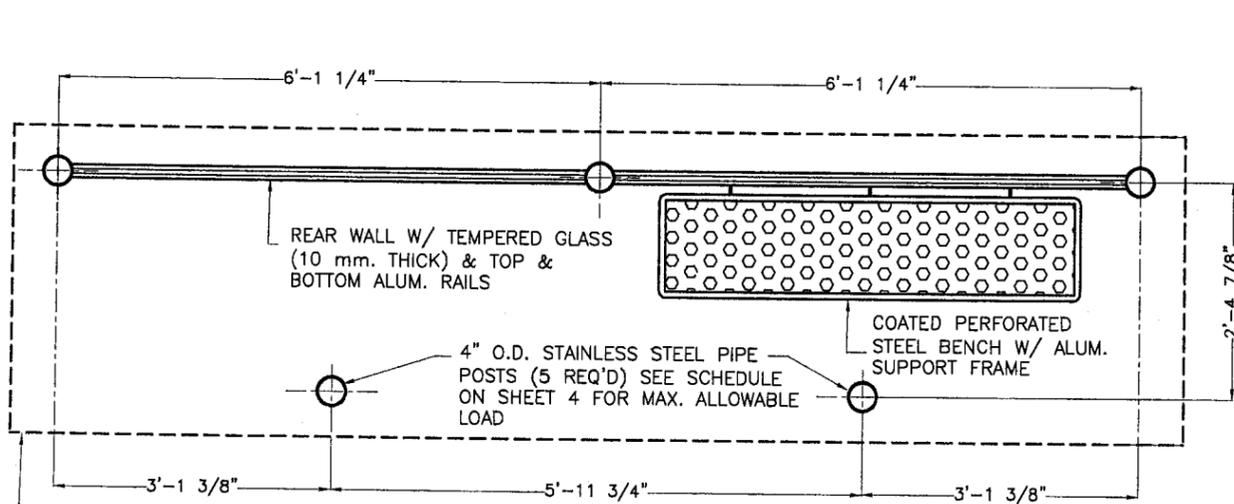
RIGHT SIDE ELEVATION

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



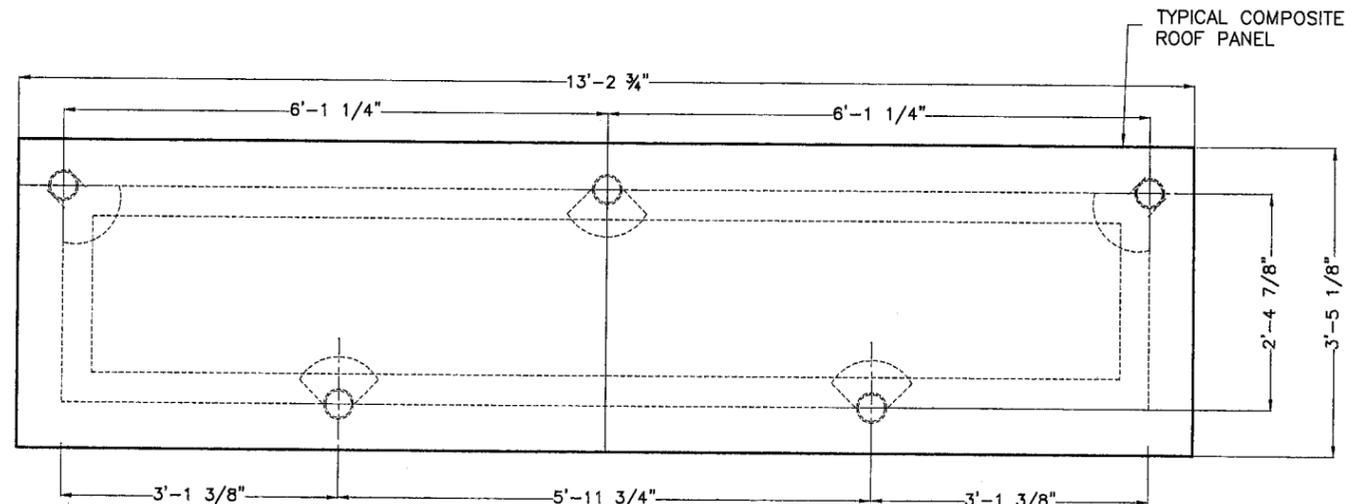
REAR WALL ELEVATION

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



FLOOR PLAN

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



ROOF PLAN

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

Approved as complying with the
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 Date 09/11/2008
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 Miami Dade Product Control
 Division
 By Helmy A. M...

[Signature]
 01/2/08
 P.E. SEAL/SIGNATURE/DATE

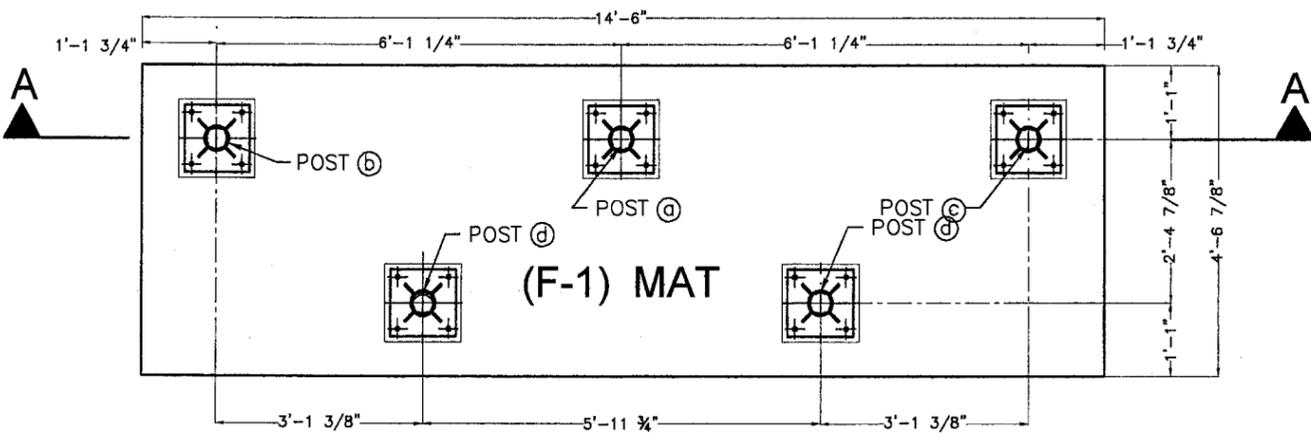
TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 38th. St., Ste. 305,
 VIRGINIA GARDENS, FL 33166
 Phone: (305)871-1530. Fax: (305)871-1531
 EB-0008719
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

CEMUSA
 CORPORATION EUROPEA DE MOBILIARIO URBANO S.A.
 Oficinas centrales: c/ Francisco Sancho nº 24
 Tel.: 358 33 44 - Fax: 358 08 87-28034 Madrid

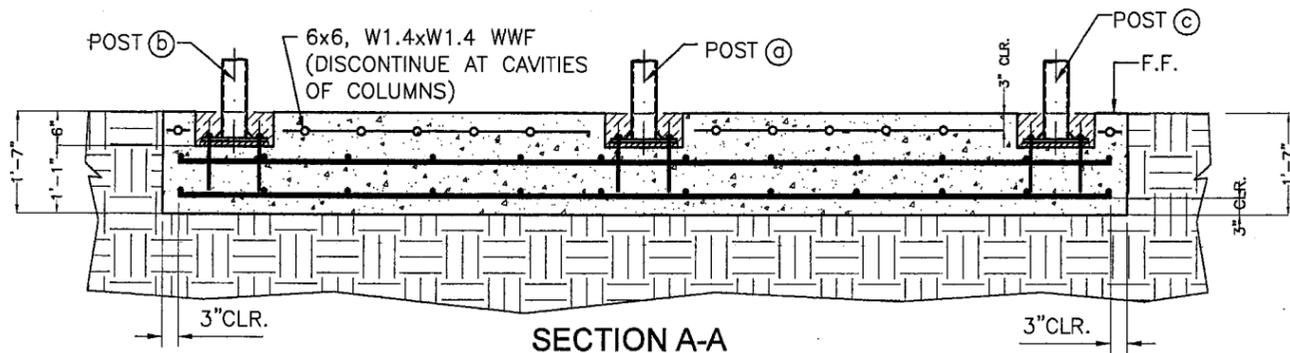
DRAWN BY: M.C.V.
 9-13-07
 DATE:
07-229
 DRAWING No.
 SHEET 2 OF 15

| No. | Date | Description |
|-----------|---------|---------------|
| 1 | 10/8/07 | O.C. COLUMNS. |
| Revisions | | |



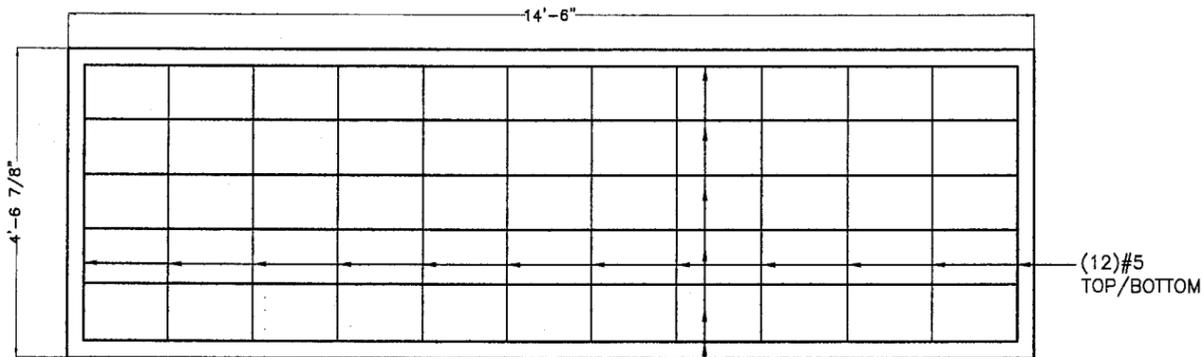
MAT FOUNDATION PLAN BUS SHELTER

(f'c = 3ksi CONCRETE)
SCALE: 3/8" = 1'-0"



SECTION A-A

SCALE: 3/8" = 1'-0"



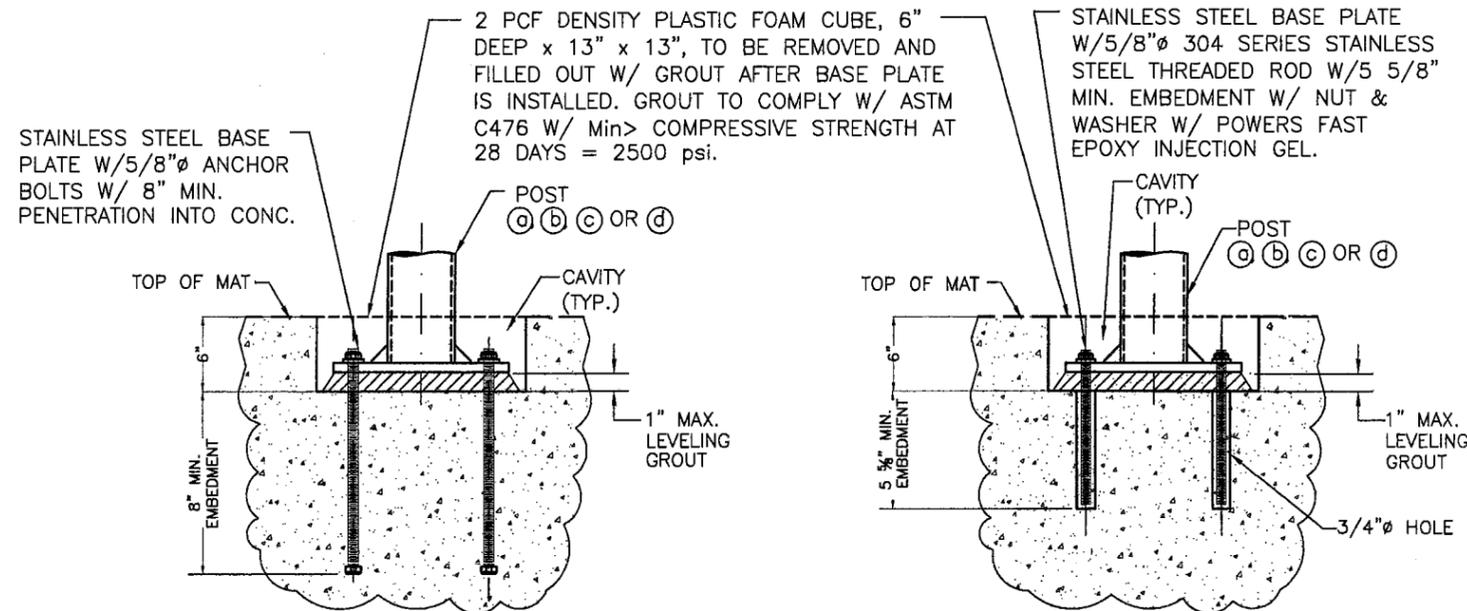
DETAIL 1

TOP / BOTTOM REINFORCEMENT FOR 19" THICK CONCRETE MAT. (TOP WWF NOT SHOWN FOR CLARITY)
(6) #5 TOP/BOTTOM

FOUNDATION NOTES:

- 1.-THE ELEVATION OF CAVITIES LEFT FOR POST'S BASE PLATES (SEE DETAILS) SHALL BE A MINIMUM OF 6" BELOW THE TOP OF THE BUS SHELTER FINISHED FLOOR SLAB.
- 2.-REINFORCEMENT STEEL SHOULD BE AS INDICATED ON FOOTING SCHEDULE:
- 3.-SEE GENERAL NOTES ON SHEET 1 OF 15 FOR ADDITIONAL SPECIFICATIONS & NOTES.
- 4.-SEE SHEETS 6, 7 & 8 FOR POST/BASE, PLATE SPECIFICATIONS FOR BUS SHELTER.

| FOOTING SCHEDULE | | | |
|------------------|------------------|-------|---|
| NUMBER | DIMENSION (WxL) | DEPTH | STEEL REINFORCEMENT |
| F-1 | 4'-6 7/8"x14'-6" | 1'-7" | (12) #5 @ 16" MAX. O.C. @ 14'-6" DIRECTION, TOP / BOTTOM. & (6) #5 @ 11" MAX. O.C. 4'-6 7/8" DIRECTION, TOP / BOTTOM. |



TYPICAL POST CONNECTION

POST CONNECTION (ALTERNATE)

Approved as complying with the Florida Building Code

Date 09/11/2008

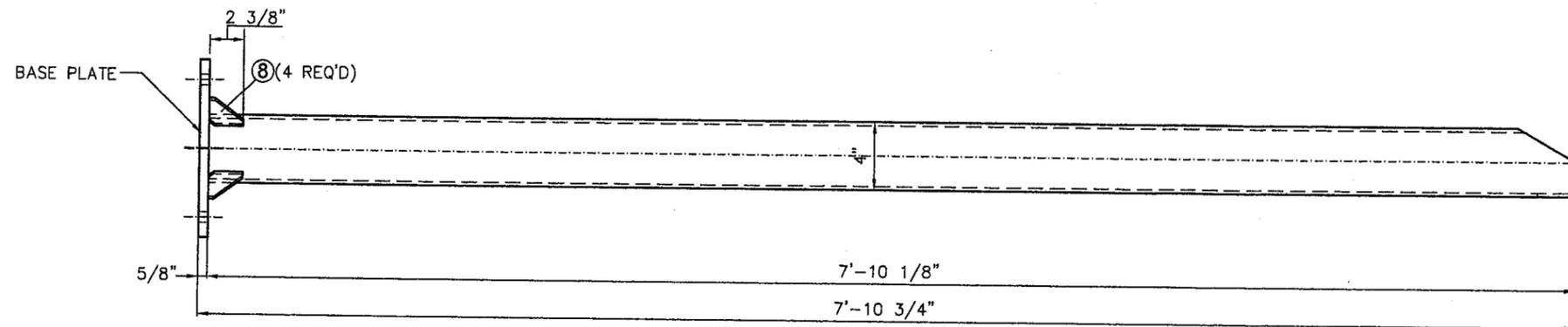
NOA# 08-0804.06

Miami Dade Product Control

Division

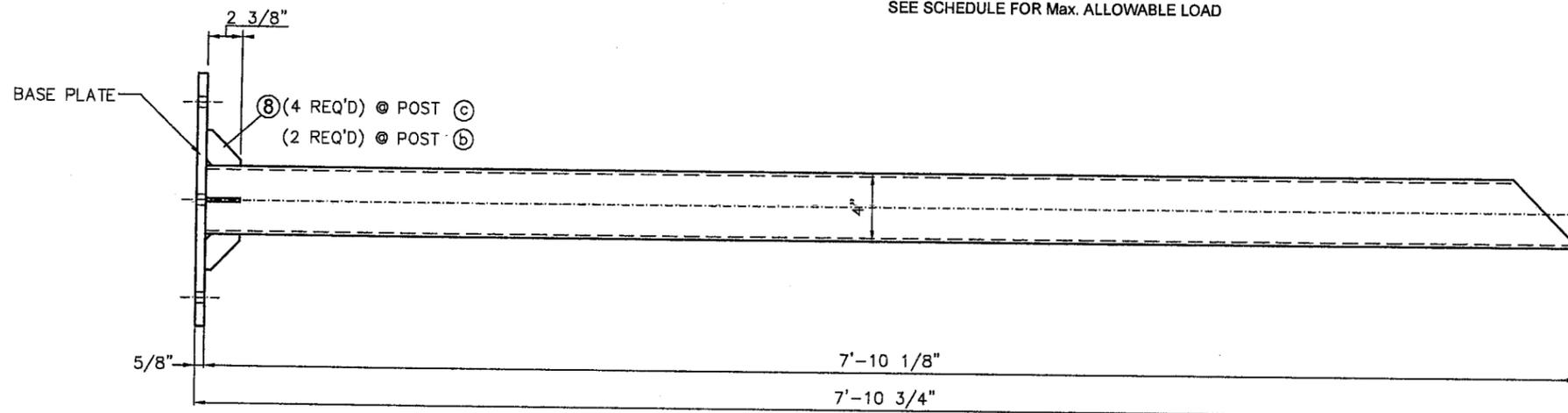
By *Helmut A. Walter*

| | | | | |
|--|---|---|---|--------------------------------|
| P.E. SEAL/SIGNATURE/DATE | TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone:(305)871-1530, Fax:(305)871-1531 EB-0008719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CORPORACION EUROPEA DE MOBILIARIO URBANO S.A. Oficinas centrales: c/ Francisco Sanchez nº 24 Tel... 358 33 44 -Fax 358 08 07-28034 Madrid | DRAWN BY: M.C.V. |
| | | | | DATE: 9-13-07 |
| FOUNDATION PLAN & SCHEDULE | | | 10/8/07 O.C. COLUMNS. | DATE: 07-229 DRAWING No. |
| No. Date: Description: Revisions | | | SHEET 3 OF 15 | |



① POST TYPE A

SCALE: 1.15" = 1'-0"
 VALID FOR POSTS (a) AND (d) (SEE SHEETS 6 & 8)
 4" O.D. PIPE, STAINLESS STEEL
 SEE SCHEDULE FOR Max. ALLOWABLE LOAD



② POST TYPE B

SCALE: 1.15" = 1'-0"
 VALID FOR POSTS (b) AND (c) (SEE SHEET 7)
 4" O.D. PIPE, STAINLESS STEEL
 SEE SCHEDULE FOR Max. ALLOWABLE LOAD

POST SCHEDULE

| REQ'D PIPE SIZE & TYPE | Max. DESIGN LOAD (psf) | |
|------------------------|------------------------|---------------|
| | ROOF | REAR WALL |
| 4" O.D. SCHEDULE 40 | ± 72.0 | + 45.0, -55.0 |
| 4" O.D. SCHEDULE 80 | ± 80.0 | + 50.0, -61.0 |

BUS SHELTER POST COMPONENTS

NOTE: SEE COMPONENT (8) ON SHEET 5

Approved as complying with the Florida Building Code

Date: 09/11/2008

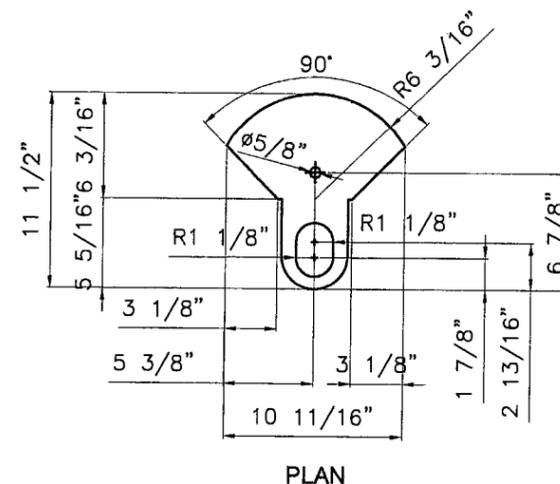
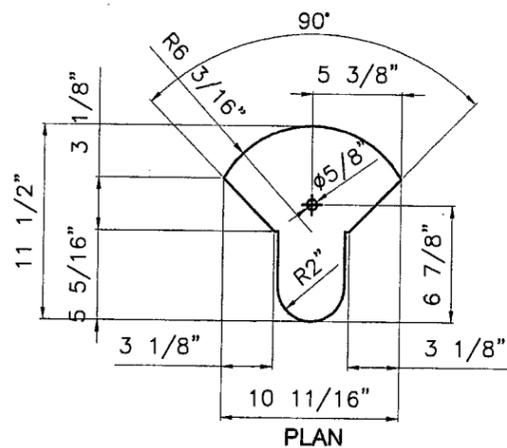
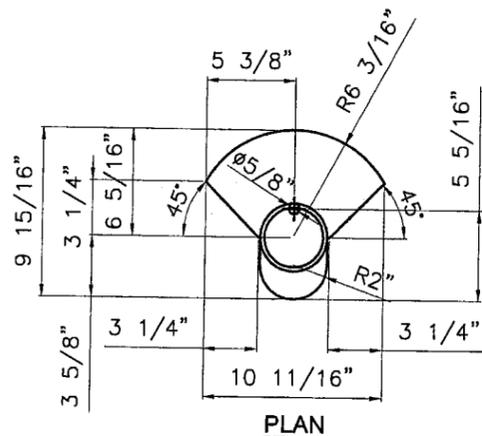
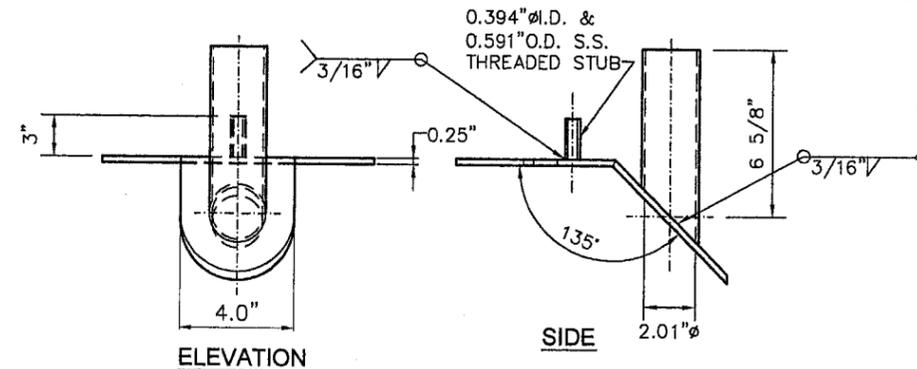
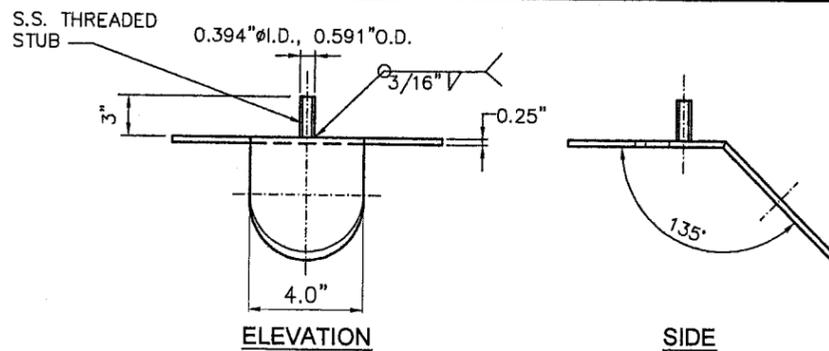
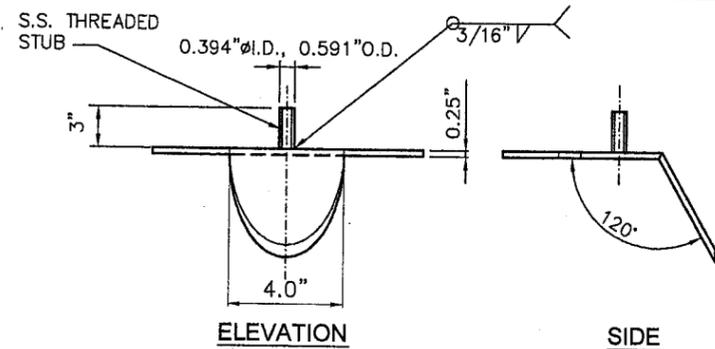
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Miami Dade Product Control

Division

By: *Helmy A. M...*

| | | | | | | | | | | | | | |
|--|--|--|---|--------------------------------|---------|--------------|-----|-------|--------------|--|--|-----------|---------------|
| 4/2/08 P.E. SEAL/SIGNATURE/DATE | TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CORPORATION EUROPEA DE MOBILIARIO URBANO S.A. <small>Oficinas centrales: c/ Francisco Sancha nº 24 Tel.: 358 33 44 - Fax 358 08 87-28034 Madrid</small> | DRAWN BY: M.C.V. | | | | | | | | | |
| | | | | 9-13-07 | | | | | | | | | |
| | | | | DATE: 07-229 DRAWING No. | | | | | | | | | |
| | | POST ELEVATIONS | <table border="1"> <tr> <td>1</td> <td>10/8/07</td> <td>O.C. COLUMNS</td> </tr> <tr> <td>No.</td> <td>Date:</td> <td>Description:</td> </tr> <tr> <td></td> <td></td> <td>Revisions</td> </tr> </table> | 1 | 10/8/07 | O.C. COLUMNS | No. | Date: | Description: | | | Revisions | SHEET 4 OF 15 |
| 1 | 10/8/07 | O.C. COLUMNS | | | | | | | | | | | |
| No. | Date: | Description: | | | | | | | | | | | |
| | | Revisions | | | | | | | | | | | |



③ POST CAP PLATE TYPE A

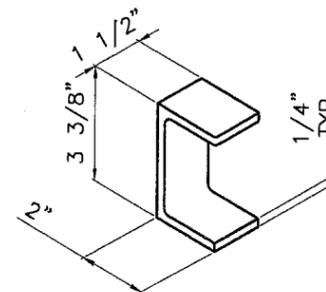
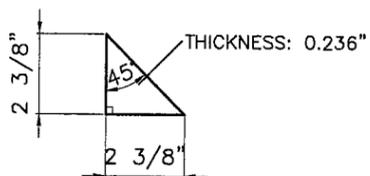
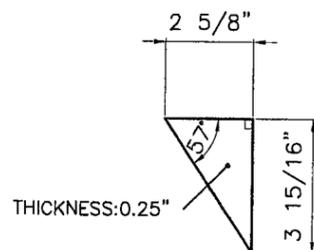
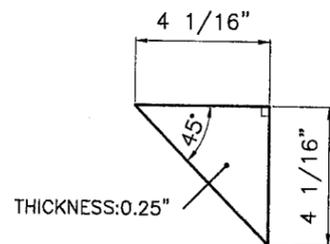
VALID FOR POSTS (a) & (d)
 REQUIRES:(3) PER UNIT
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.

④ POST CAP PLATE TYPE B

VALID FOR POSTS (c)
 REQUIRES:(1) PER UNIT
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.

⑤ POST CAP PLATE TYPE C

VALID FOR POSTS (b)
 REQUIRES:(1) PER UNIT
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.



⑥ POST CAP PLATE GUSSET

VALID FOR POSTS (b) & (c)
 REQUIRES:(2) PER UNIT
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.

⑦ POST CAP PLATE GUSSET

VALID FOR POSTS (a) & (d)
 REQUIRES:(3) PER UNIT
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.

⑧ POST BASE PLATE GUSSET

REQUIRES:(20) PER UNIT
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.

⑨ POST BRACKET FOR REAR WALL

REQUIRES:(2) PER POST
 MATERIAL: STAINLESS STEEL, AISI 304
 N.T.S.

Approved as complying with the
 Florida Building Code
 Date 09/11/2008
 NOAH 08-0904-06
 Miami Dade Product Control
 Division/
 By Helmy A. Alatorre

BUS SHELTER POST COMPONENTS

[Signature]
 4/2/08
 P.E. SEAL/SIGNATURE/DATE

TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305,
 VIRGINIA GARDENS, FL 33166
 Phone:(305)871-1530. Fax:(305)871-1531
 EB-0006719
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

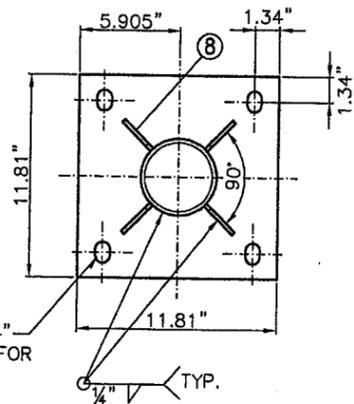
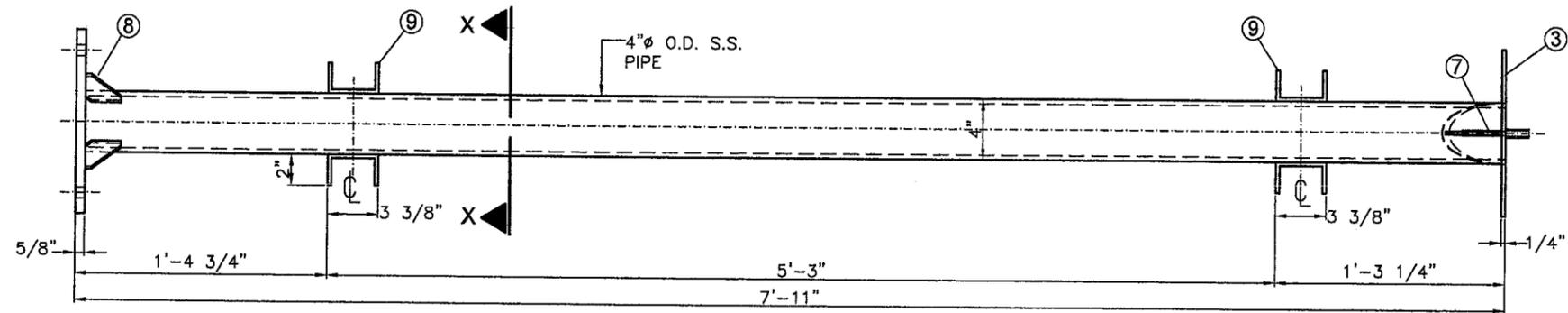
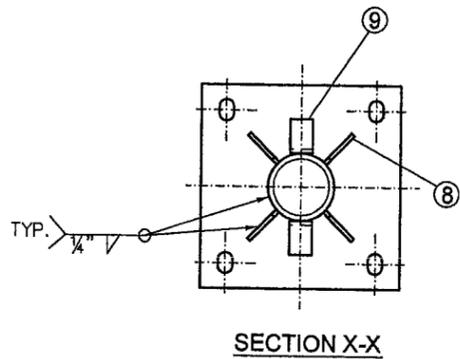
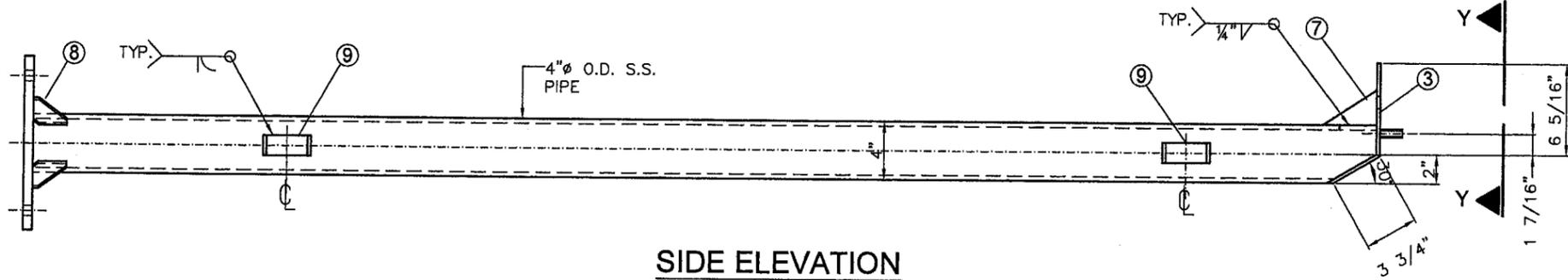
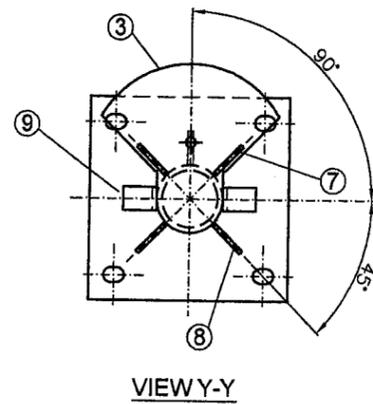
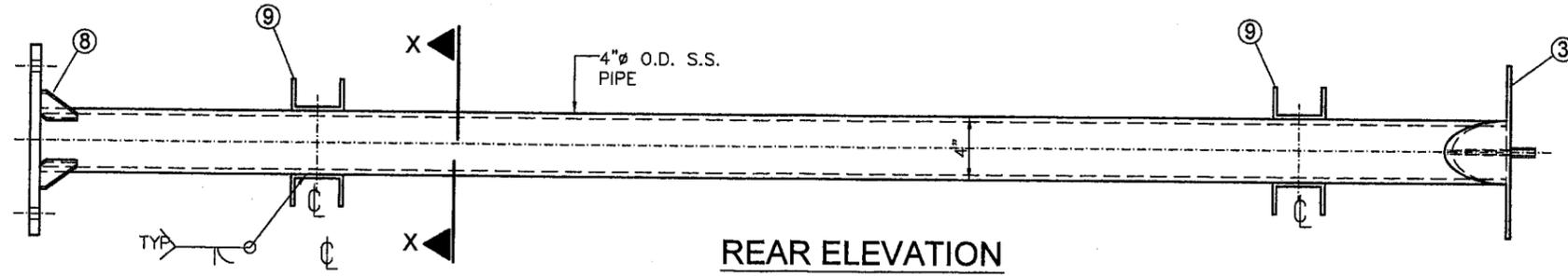
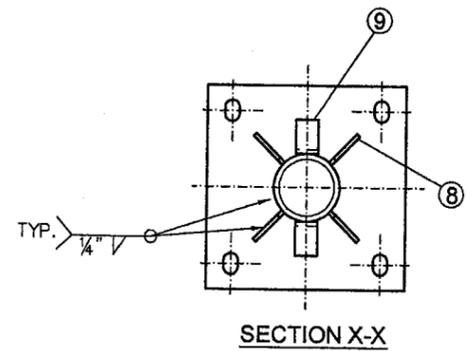
MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

CEMUSA
 CORPORATION EUROPEA DE MOBILIARIO URBANO S.A.
 Oficinas centrales: c/ Francisco Sanchez nº 24
 Tel.: 358 33 44 - Fax 358 08 87-28034 Madrid

DRAWN BY: M.C.V.
 9-13-07
 DATE:
 07-229
 DRAWING No.
 SHEET 5 OF 15

POST COMPONENTS

| | | |
|-----|---------|---------------|
| 1 | 10/8/07 | O.C. COLUMNS. |
| No. | Date: | Description: |
| | | Revisions |



(a) REAR CENTER POST

SCALE: 1.15" = 1'-0"
REQUIRES: (1) PER UNIT

Approved as complying with the
Florida Building Code
Date 09/11/2008
NOAH 08-0804.06
Miami Dade Product Control
Division
By Heley A. V. [Signature]

[Signature]
4/2/08
P.E. SEAL/SIGNATURE/DATE

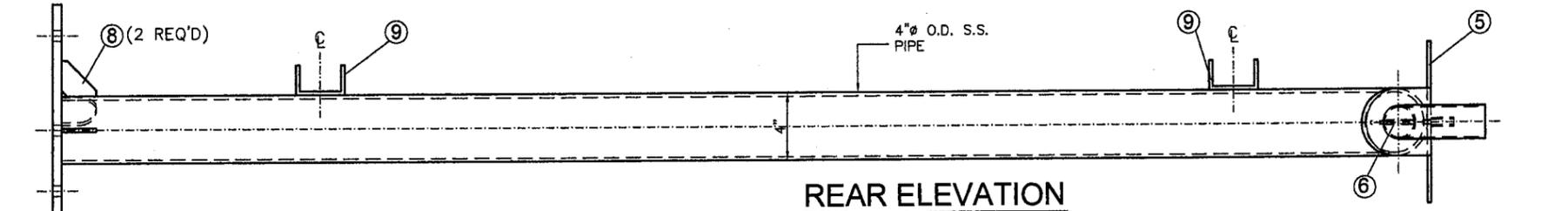
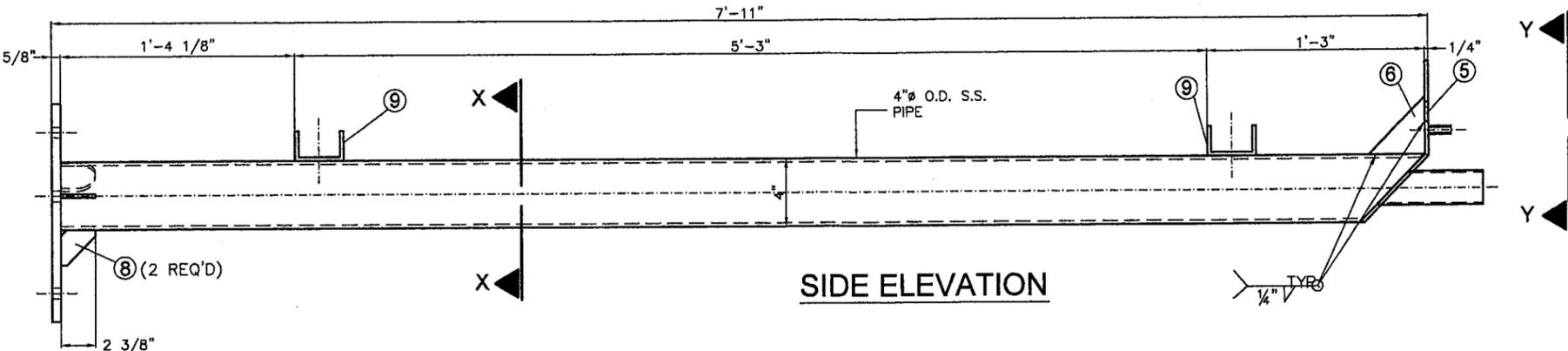
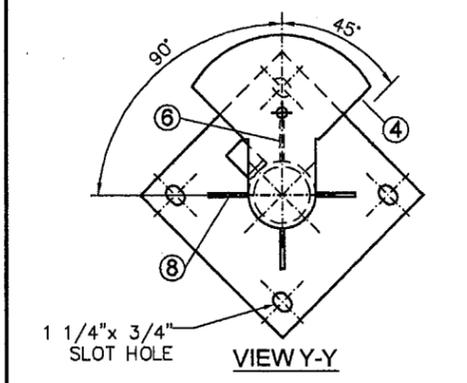
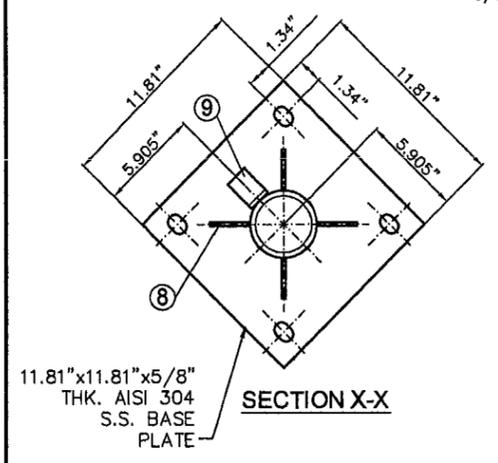
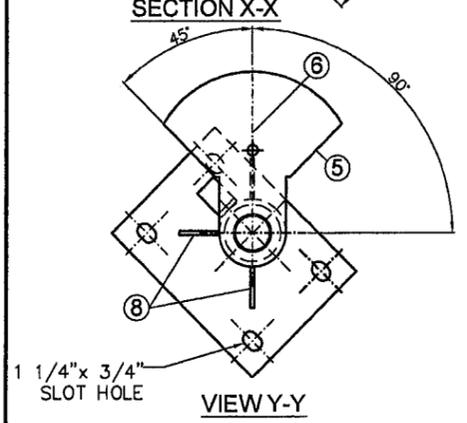
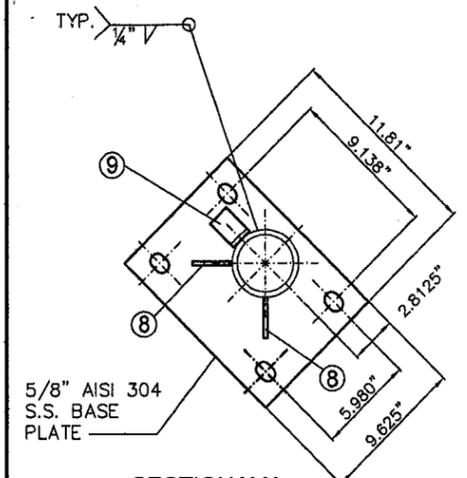
TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th. St., Ste. 305,
VIRGINIA GARDENS, FL 33168
Phone: (305) 871-1530, Fax: (305) 871-1531
EB-0008719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

MIAMI BUS
SHELTER
SLIM VERSION
W/O OPPI PAL-LI
SOLAR DISPLAY
PANEL

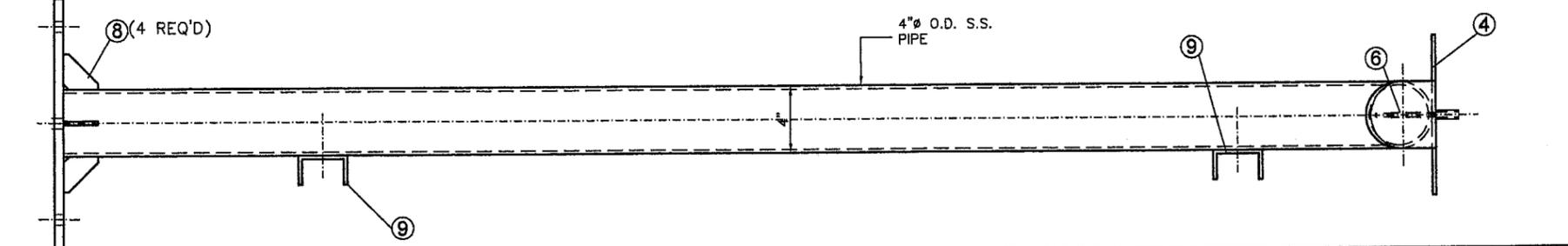
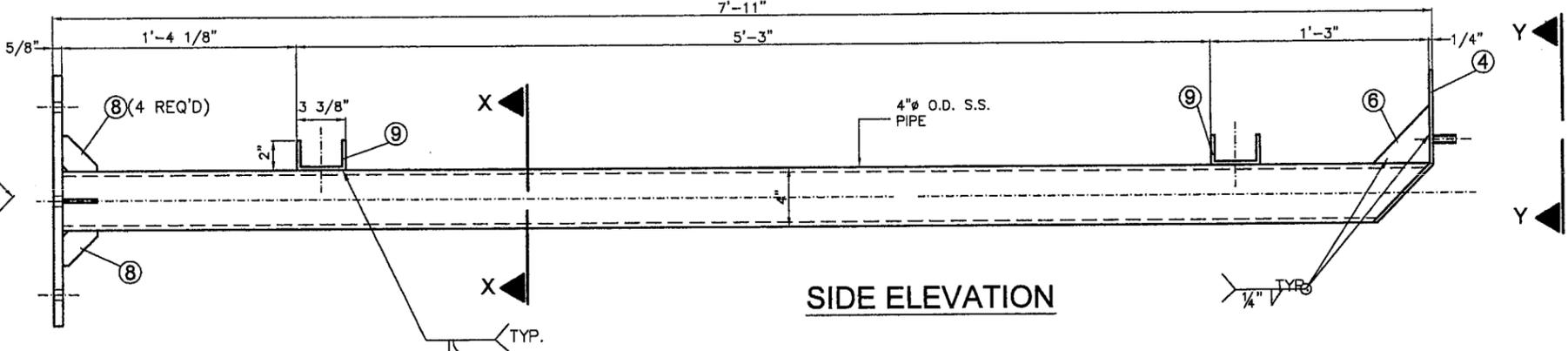
CEMUSA
CORPORACION EUROPEA DE MOBILIARIO URBANO S.A.
Oficinas centrales: c/ Francisco Sanchez n° 24
Tel.: 350 33 44 - Fax 350 08 67-28034 Madrid

DRAWN BY:
M.C.V.
9-13-07
DATE:
07-229
DRAWING No.
SHEET 6 OF 15

| No. | Date | Description | Revisions |
|-----|---------|---------------|-----------|
| 1 | 10/8/07 | O.C. COLUMNS. | |
| | | | |
| | | | |



(b) REAR LEFT POST
REQUIRES: (1) PER UNIT



(c) REAR RIGHT POST
REQUIRES: (1) PER UNIT

Approved as complying with the
Florida Building Code
Date 09/11/2008
NOA# 08-0804-06
Miami Dade Product Control
Division
By: *Helmy A. Alatorre*

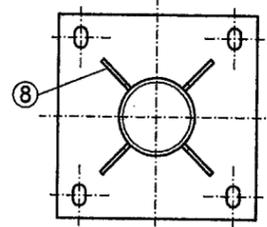
Walter A. Tillit Jr.
4/2/08
P.E. SEAL/SIGNATURE/DATE

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th. St., Ste. 305,
VIRGINIA GARDENS, FL 33168
Phone: (305) 871-1530. Fax: (305) 871-1531
EB-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

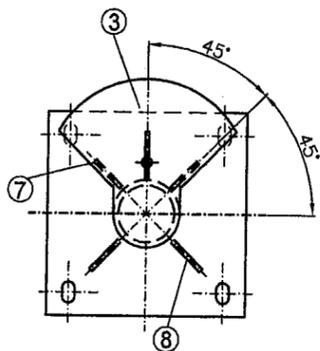
MIAMI BUS
SHELTER
SLIM VERSION
W/O OPPI PAL-LI
SOLAR DISPLAY
PANEL

| | |
|---|-----------------------|
| CEMUSA | |
| CORPORACION EUROPEA DE MOBILIARIO URBANO S.A. | |
| Oficina central: c/ Francisco Serrate nº 34 Tel.: 358 33 44 - Fax 358 98 47-28034 Madrid | |
| 1 | 10/8/07 O.C. COLUMNS. |
| No. Date: | Description: |
| | Revisions |

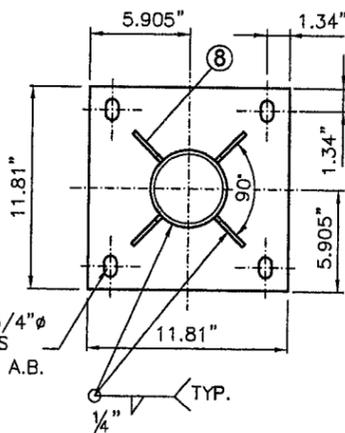
DRAWN BY:
M.C.V.
9-13-07
DATE:
07-229
DRAWING No.
SHEET 7 OF 15



SECTION X-X

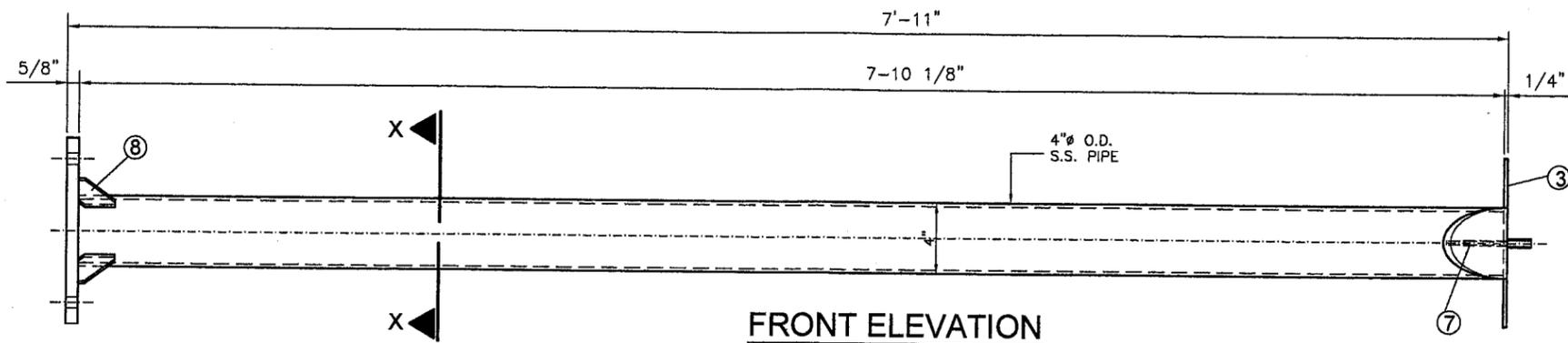


VIEW Y-Y

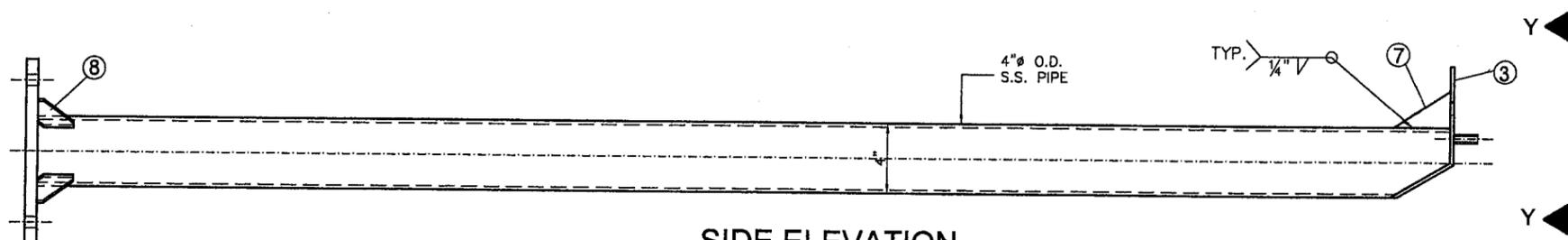


BASE PLATE

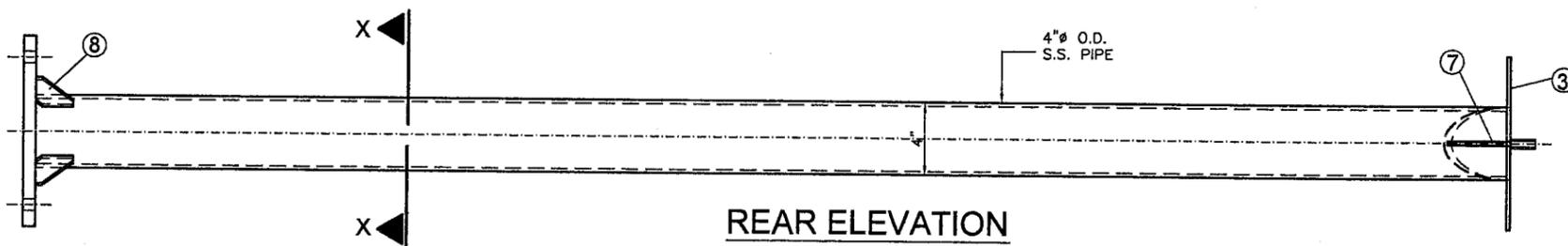
1 1/4" x 3/4" SLOT HOLES FOR 5/8" A.B.



FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION

(d) FRONT POST

SCALE: 1.15" = 1'-0"
REQUIRES: (2) PER UNIT

Approved as complying with the Florida Building Code
Date 09/11/2008
NOA# 08-0804-06
Miami Dade Product Control
Division
By: *Helena A. Miller*

[Signature]
9/2/08
P.E. SEAL/SIGNATURE/DATE

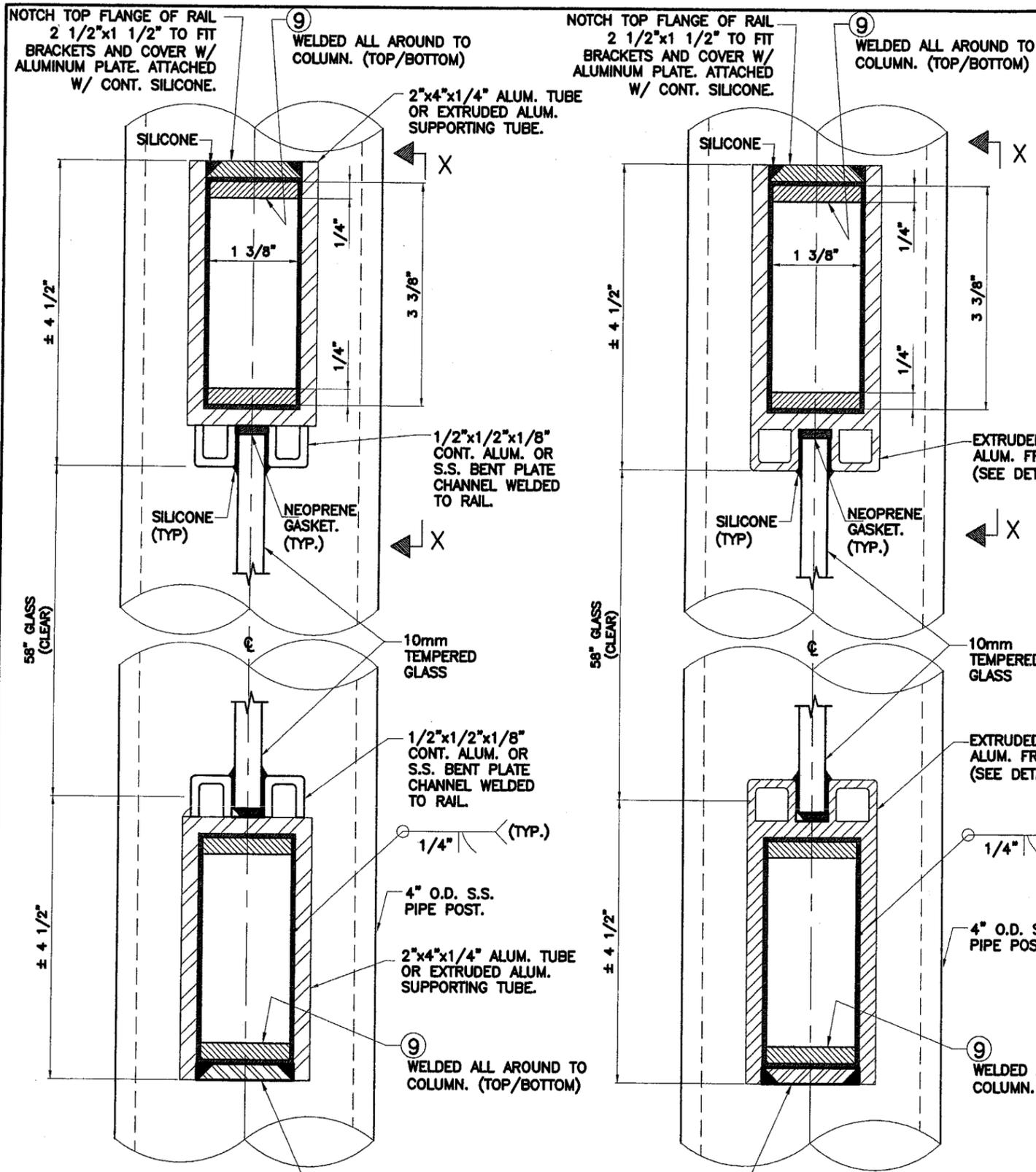
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305,
VIRGINIA GARDENS, FL 33166
Phone:(305)871-1530. Fax:(305)871-1531
EB-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL
POST ELEVATIONS

CEMUSA
CORPORACION EUROPEA DE MOBILIARIO URBANO S.A.
Oficinas centrales: c/ Francisco Sanchez nº 24
Tel.: 358 33 44 - Fax 358 08 67-28034 Madrid

DRAWN BY: M.C.V.
9-13-07
DATE:
07-229
DRAWING No.
SHEET 8 OF 15

| No. | Date | Description |
|-----|---------|---------------|
| 1 | 10/8/07 | O.C. COLUMNS. |
| | | |
| | | |
| | | |



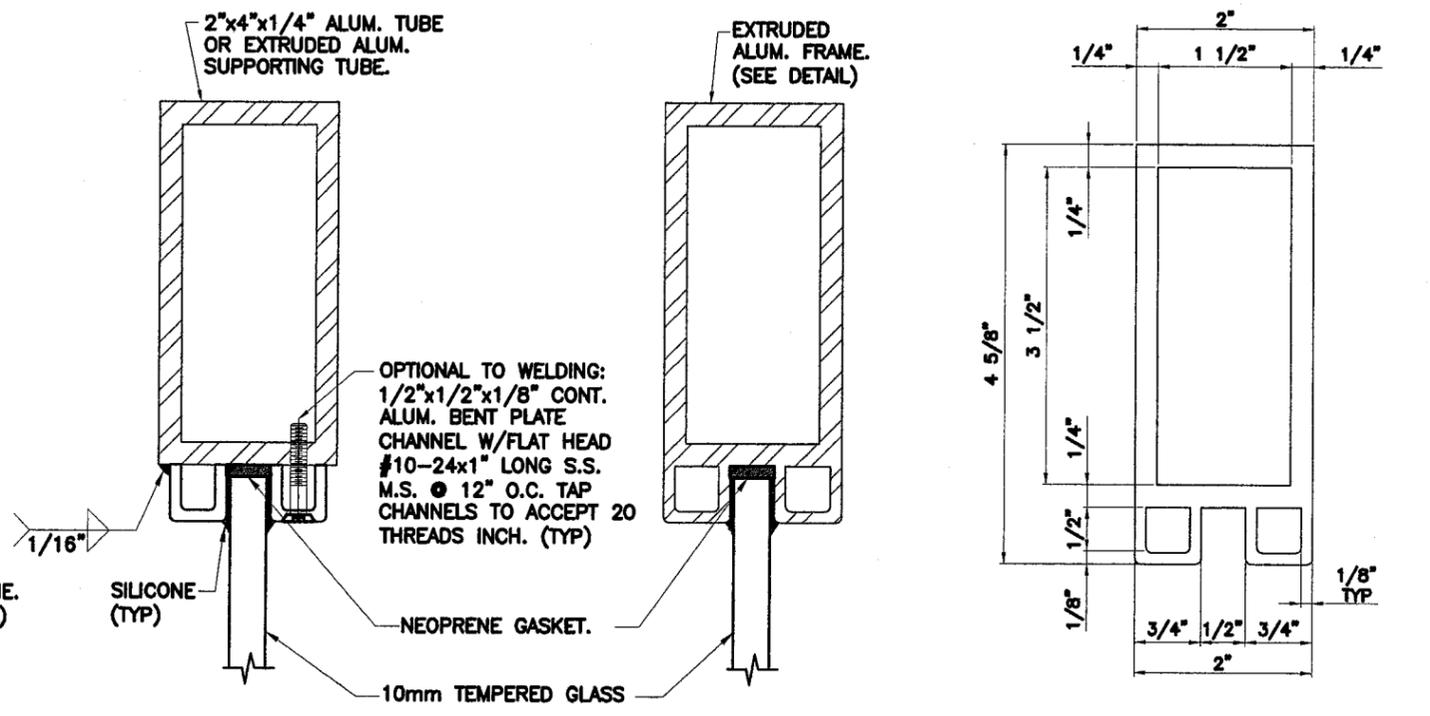
NOTCH BOTTOM FLANGE OF EXTRUSION 2 1/2" TO FIT BRACKETS AND COVER W/ ALUM. PLATE. ATTACHED W/ CONT. SILICONE.

NOTCH BOTTOM FLANGE OF EXTRUSION 2 1/2" TO FIT BRACKETS AND COVER W/ ALUM. PLATE. ATTACHED W/ CONT. SILICONE.

ALTERNATE # 1

ALTERNATE # 2

SECTION A-A

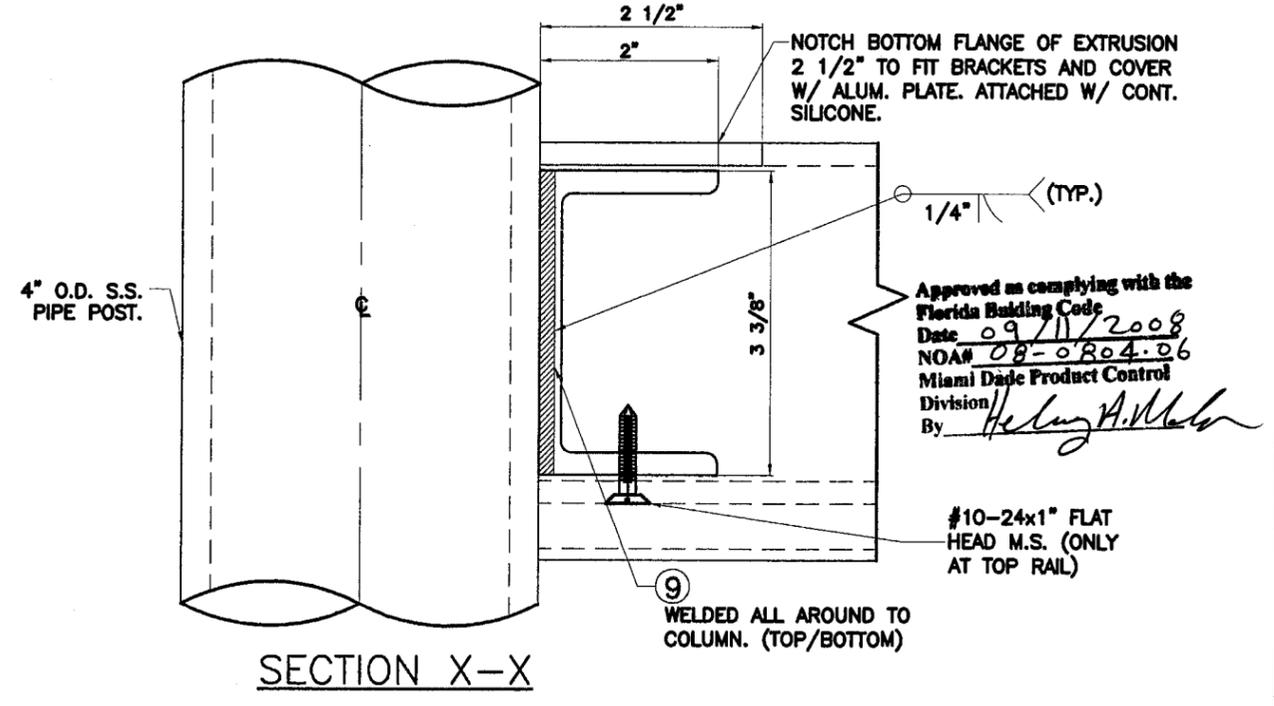


ALTERNATE # 1

ALTERNATE # 2

SECTION B-B

EXTRUDED ALUM. SUPPORTING TUBE DETAIL

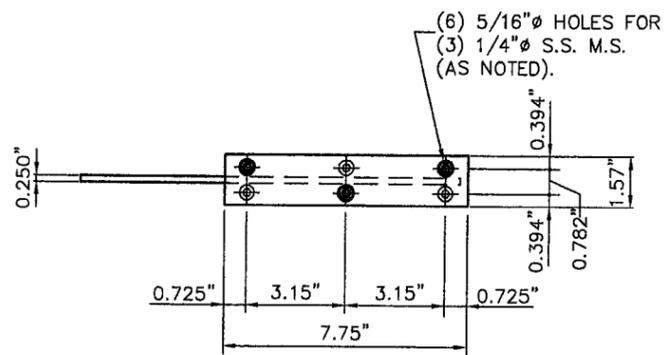
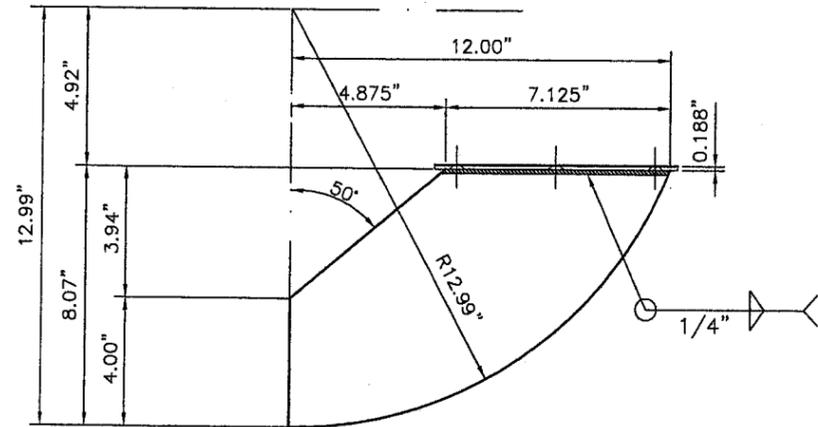


SECTION X-X

Approved as complying with the Florida Building Code
 Date 09/11/2008
 NOA# 08-0804-06
 Miami Dade Product Control
 Division/
 By *Helmut A. Weber*

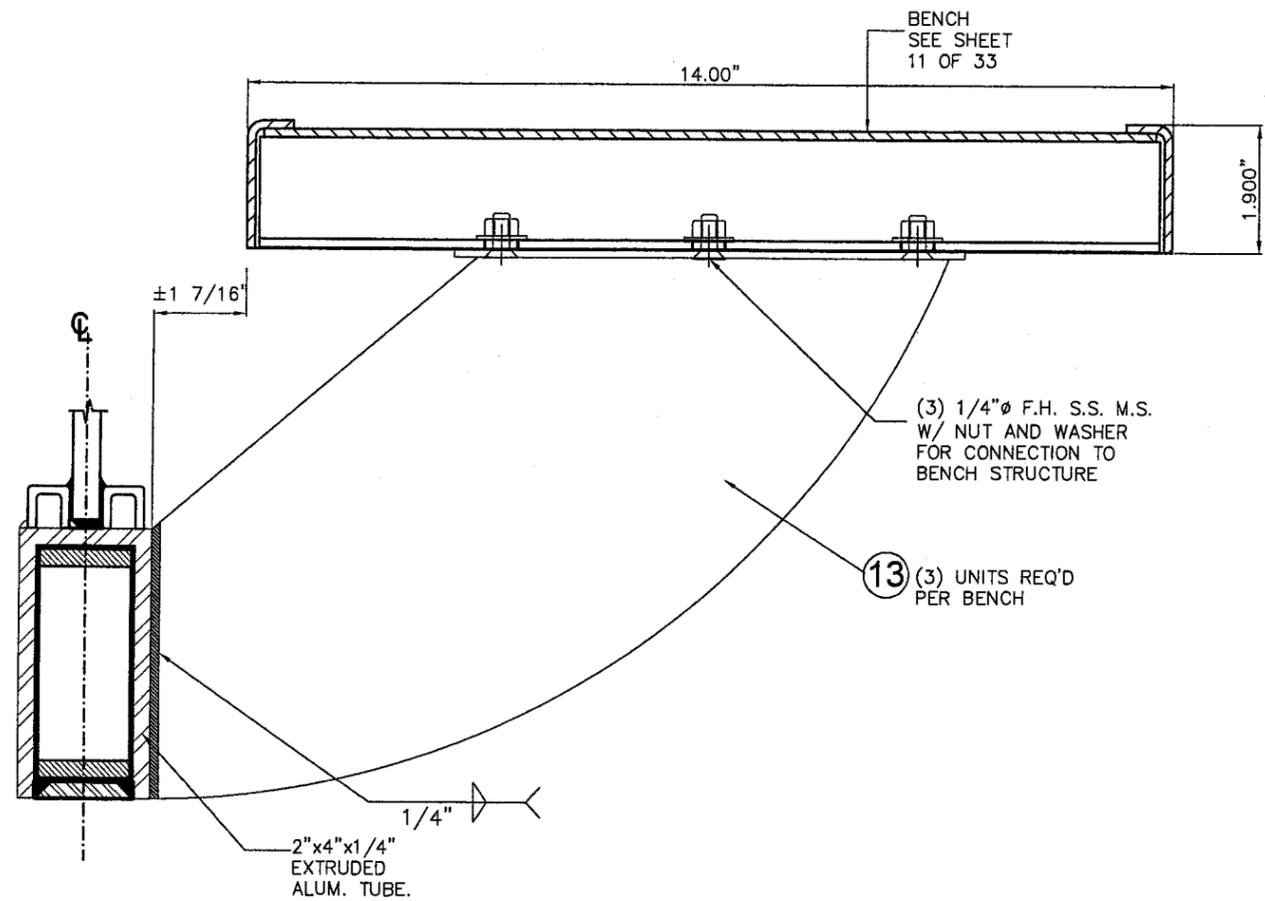
#10-24x1" FLAT HEAD M.S. (ONLY AT TOP RAIL)

| | | | | |
|--|--|---|---|---------------------|
| 9/2/08 P.E. SEAL/SIGNATURE/DATE | TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL. 33166 Phone: (305) 871-1530, Fax: (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CORPORATION EUROPEA DE MOBILIARIO URBANO S.A. <small>Oficina central: c/ Francisco Sancha nº 24, Tel.: 355 33 44 - Fax: 355 05 87-28034 Madrid</small> | DRAWN BY: M.C.V. |
| | | | | DATE: 9-13-07 |
| REAR WALL SECTIONS | | | 1 10/8/07 O.C. COLUMNS. | DATE: 07-229 |
| No. Date: Description: Revisions | | | DRAWING No. SHEET 9 OF 15 | |



13 BENCH SUPPORT BRACKET

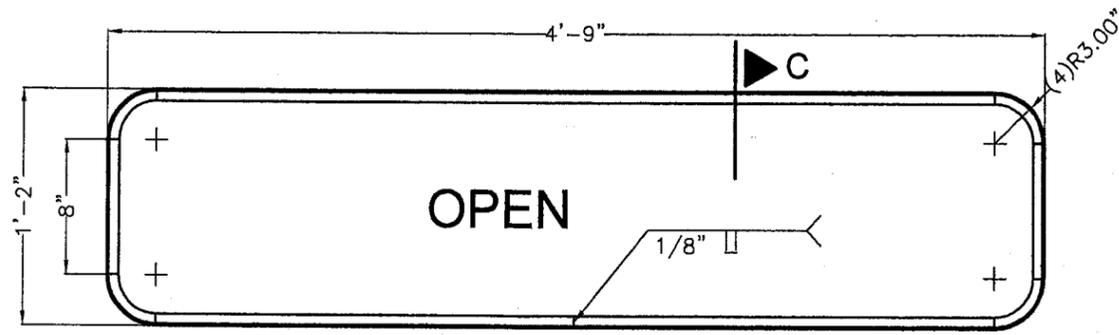
MATERIAL: 6063-T6
ALUM. ALLOY WELDED PLATES
REQUIRES: (3) PER UNIT



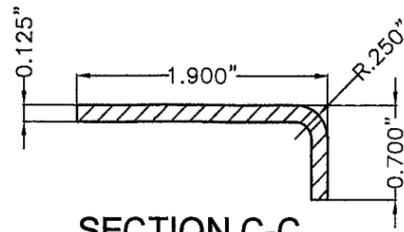
ASSEMBLY BENCH TO BOTTOM RAIL SECTION

Approved as complying with the
Florida Building Code
Date 09/11/2008
NOA# 08-0804.eb
Miami Dade Product Control
Division
By Helmy A. M...

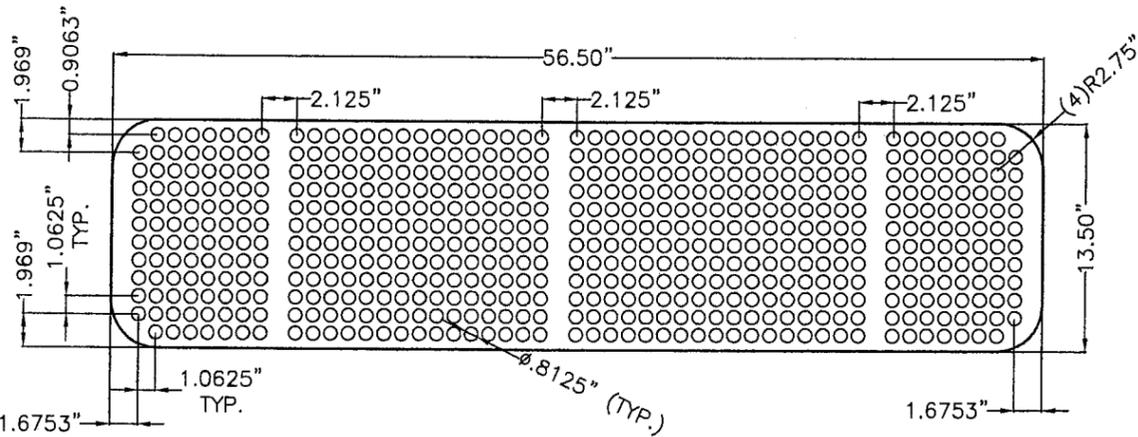
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|--|--|---|--|---------------------------------------|---------|---------------|-----|-------|--------------|--|--|-----------|----------------|
| 9/2/08 P.E. SEAL/SIGNATURE/DATE | TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone:(305)871-1530, Fax:(305)871-1531 EB-0008719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CORPORACION EUROPEA DE MOBILIARIO URBANO S.A. Oficinas centrales: c/ Francisco Sanchez n° 24 Tel... 358 33 44 -Fax 358 08 67-28034 Madrid | DRAWN BY: M.C.V. | | | | | | | | | |
| | | | | 9-13-07 | | | | | | | | | |
| | | | | DATE: 07-229 DRAWING No. | | | | | | | | | |
| | | BEAM SUPPORT COMPONENTS | <table border="1"> <tr> <td>1</td> <td>10/8/07</td> <td>O.C. COLUMNS.</td> </tr> <tr> <td>No.</td> <td>Date:</td> <td>Description:</td> </tr> <tr> <td></td> <td></td> <td>Revisions</td> </tr> </table> | 1 | 10/8/07 | O.C. COLUMNS. | No. | Date: | Description: | | | Revisions | SHEET 10 OF 15 |
| 1 | 10/8/07 | O.C. COLUMNS. | | | | | | | | | | | |
| No. | Date: | Description: | | | | | | | | | | | |
| | | Revisions | | | | | | | | | | | |



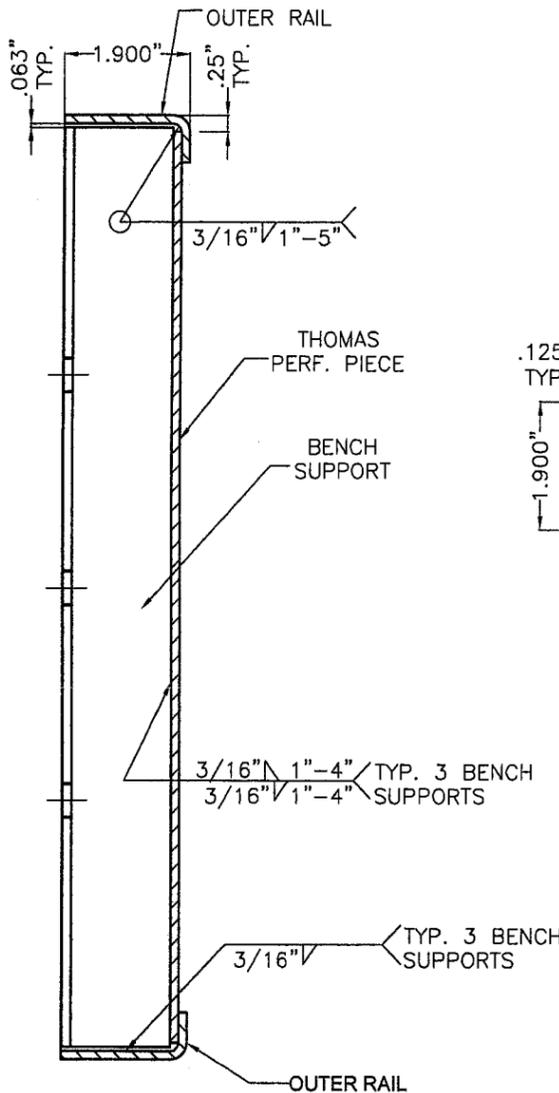
OUTER RAIL (PROTO-MBENCH-103)
0.125" THICK HOT ROLLED STEEL COIL ASTM A 1011
NTS.



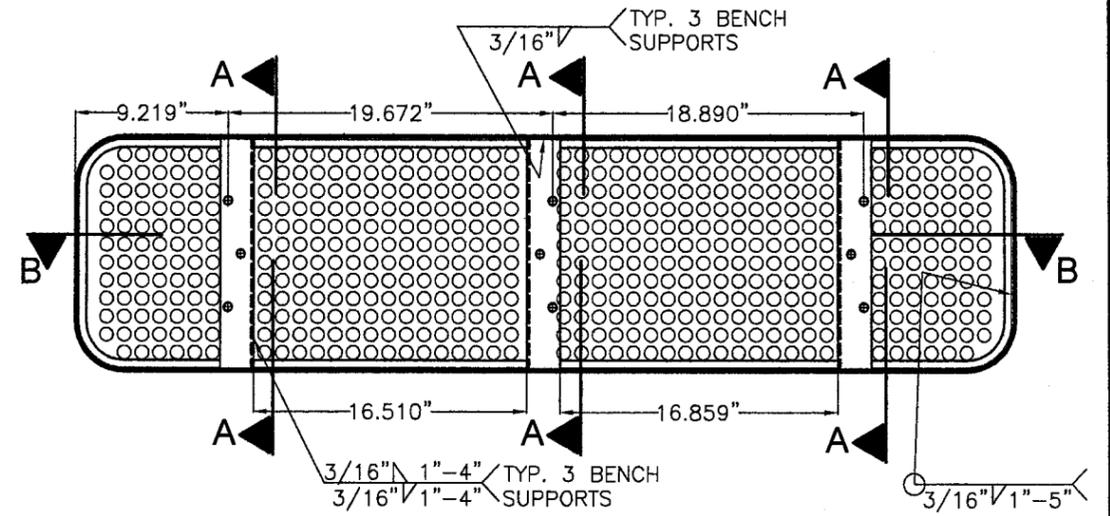
SECTION C-C (TYP)
NTS.



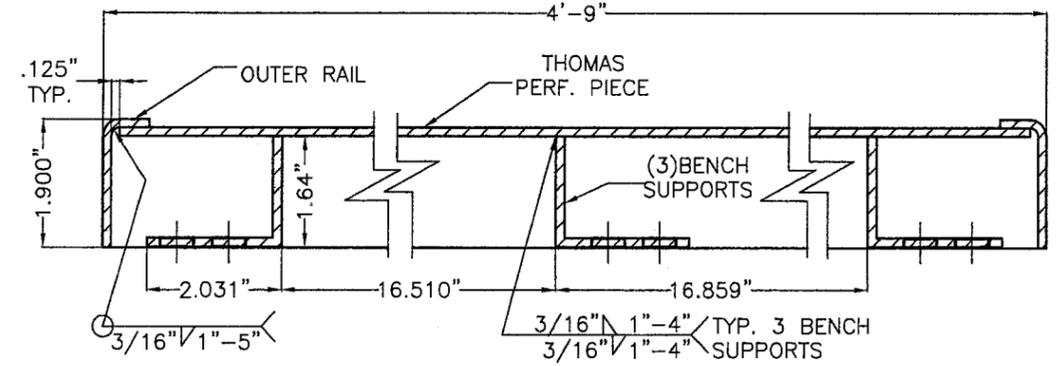
THOMAS PERF. PIECE (PROTO-MBENCH-101B)
0.135" THICK HOT ROLLED STEEL ASTM A-1011 CS, TYPE B
NTS.



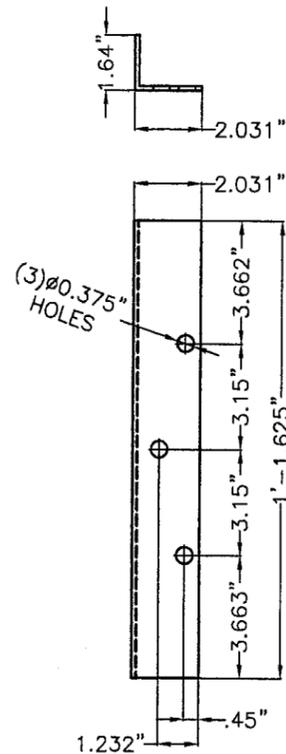
SECTION A-A (TYP)
NTS.



BENCH ASSEMBLY
NTS.



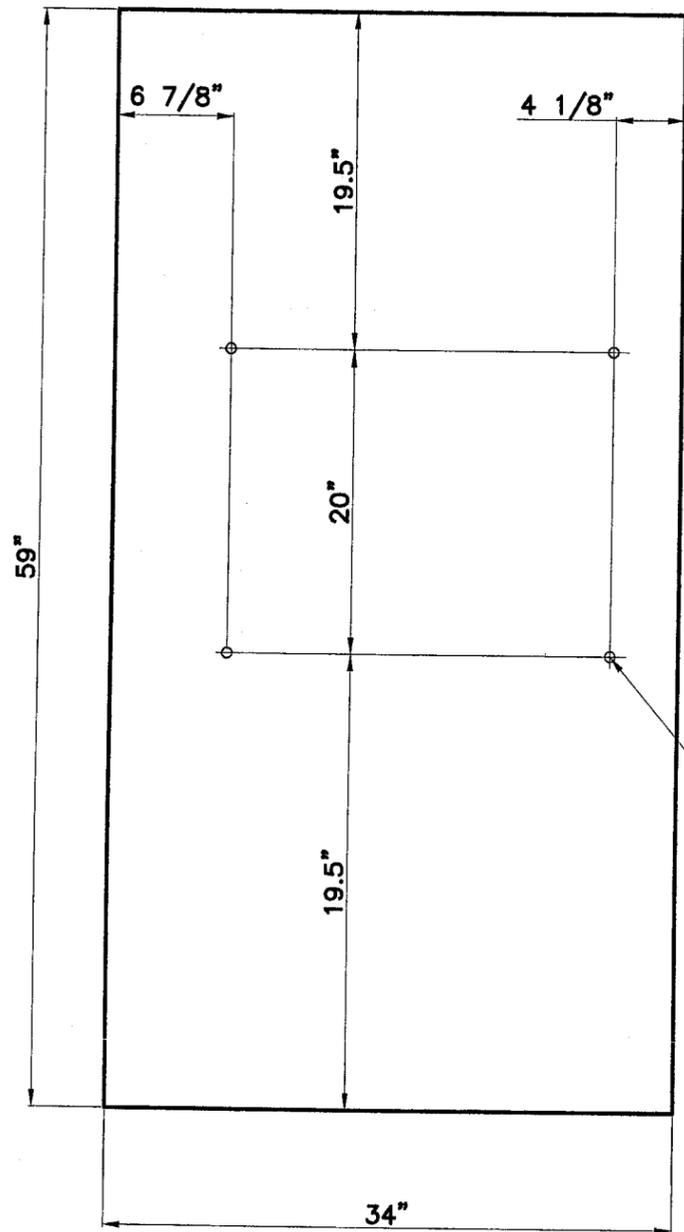
SECTION B-B (TYP)
NTS.



BENCH SUPPORT (PROTO-MBENCH-102)
CUT OF 0.135" THICK HOT ROLLED STEEL SHEET ASTM A 1011
(3 UNITS PER BENCH REQ'D.)
NOTE: PUNCH HOLES, AND BEND.
NTS.

Approved as complying with the Florida Building Code
Date: 09/11/2008
NOA# 08-0804.06
Miami Dade Product Control Division
By: *Helmy A. Mahr*

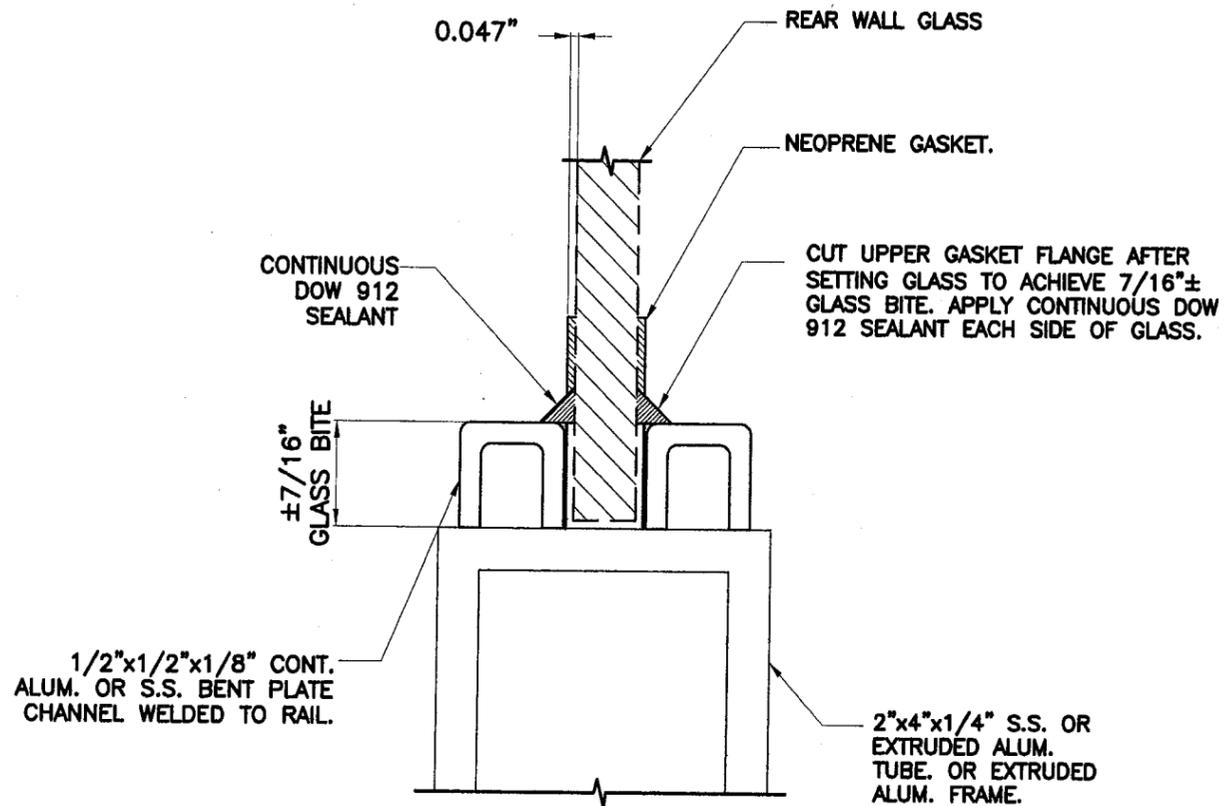
| | | | | |
|---|---|---|---|--------------------------------|
| 4/2/08 P.E. SEAL/SIGNATURE/DATE | TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305) 871-1530, Fax: (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CORPORACION EUROPEA DE MOBILIARIO URBANO S.A. Oficinas centrales: c/ Francisco Sanja de 24 Tel.: 358 33 44 - Fax 358 08 87-28034 Madrid | DRAWN BY: M.C.V. |
| | | | | DATE: 9-13-07 |
| PROTO-M BENCH-0 DETAILS | | | 1 10/8/07 O.C. COLUMNS. | DATE: 07-229 DRAWING No. |
| No. Date: Description: Revisions: | | | SHEET 11 OF 15 | |



5/16" HOLES AS APPLICABLE AT ONE PANEL ONLY.

REAR WALL GLASS - BUS SHELTER

N.T.S.
10mm TEMPERED GLASS W/ GROUND EDGES
REQUIRES:(4) PER UNIT

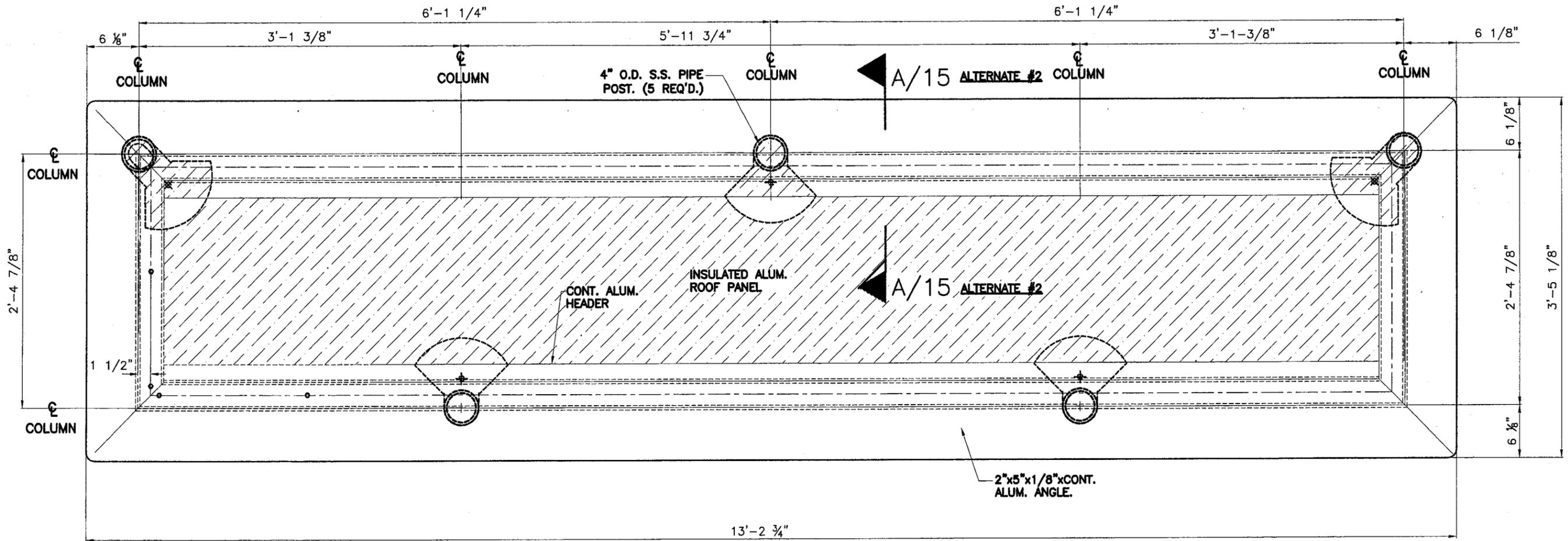


**RUBBER GASKET-UPPER & LOWER GLASS EDGE:
GLAZING DETAIL**

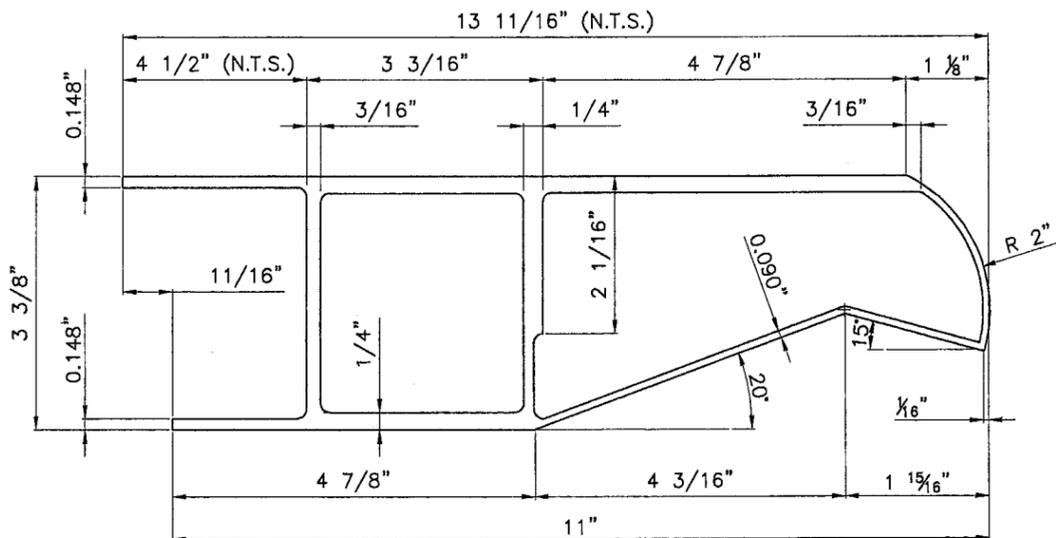
N.T.S.
MATERIAL: NEOPRENE RUBBER
REQUIRES:(24') PER UNIT
THICKNESS: 10mm

Approved as complying with the
Florida Building Code
Date: 09/11/2008
NOA# 08-0804.06
Miami Dade Product Control
Division
By: *Heber A. Alvarado*

| | | | | | | | | | | | | | |
|--|--|--|---|--------------------------------|---------|---------------|-----|-------|--------------|-----------|--|--|----------------|
| 4/2/08 P.E. SEAL/SIGNATURE/DATE | TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33186 Phone:(305)871-1530, Fax:(305)871-1531 EB-0008719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CORPORACION EUROPEA DE MOBILIARIO URBANO S.A. Oficinas centrales: c/ Francisco Saezha nº 24 Tel.: 358 33 44 -Fax 358 08 87-28034 Madrid | DRAWN BY: M.C.V. | | | | | | | | | |
| | | | | 9-13-07 | | | | | | | | | |
| REAR WALL GLASS | | | | DATE: 07-229 DRAWING No. | | | | | | | | | |
| <table border="1"> <tr> <td>1</td> <td>10/8/07</td> <td>O.C. COLUMNS.</td> </tr> <tr> <td>No.</td> <td>Date:</td> <td>Description:</td> </tr> <tr> <td colspan="3">Revisions</td> </tr> </table> | | | | 1 | 10/8/07 | O.C. COLUMNS. | No. | Date: | Description: | Revisions | | | SHEET 12 OF 15 |
| 1 | 10/8/07 | O.C. COLUMNS. | | | | | | | | | | | |
| No. | Date: | Description: | | | | | | | | | | | |
| Revisions | | | | | | | | | | | | | |



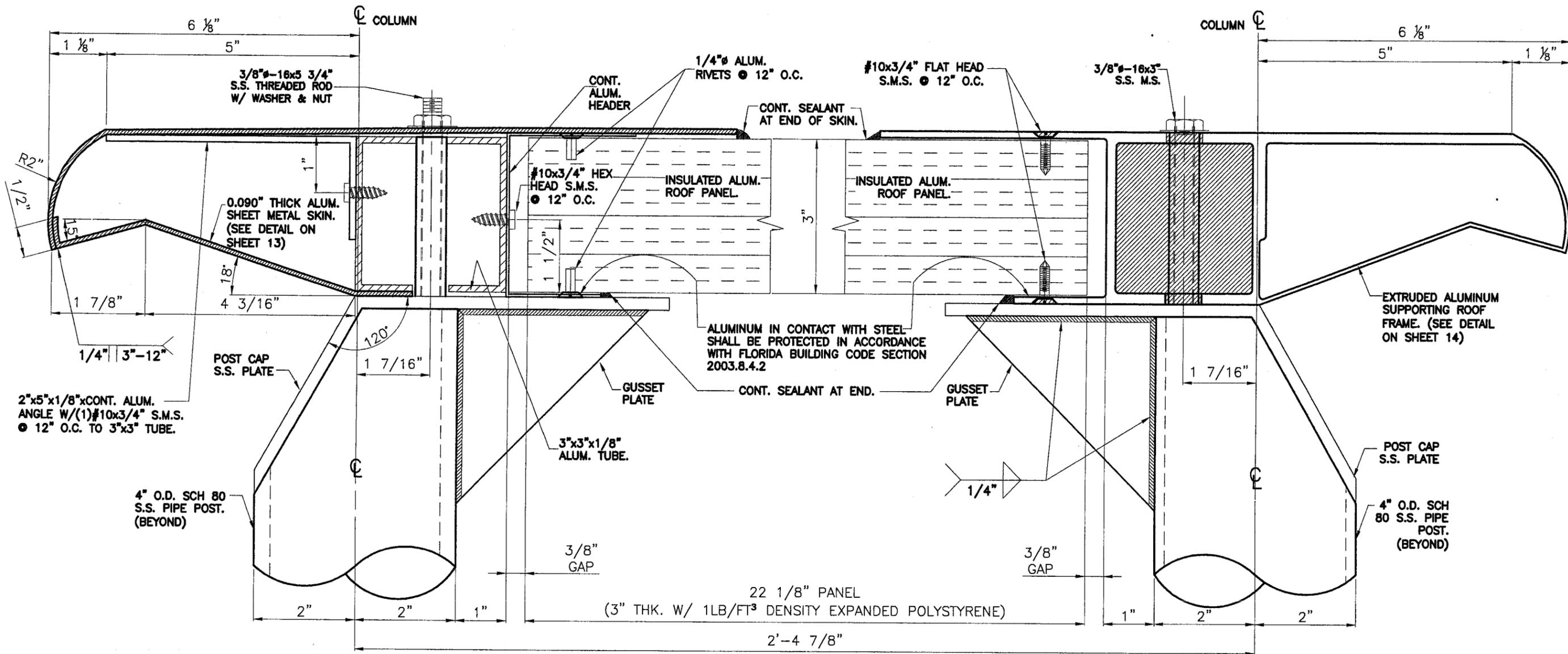
**ROOF STRUCTURE PLAN
ALTERNATE #2
SCALE: 1"=1'-0"**



**EXTRUDED ALUMINUM SUPPORTING
ROOF FRAME DETAIL
N.T.S.**

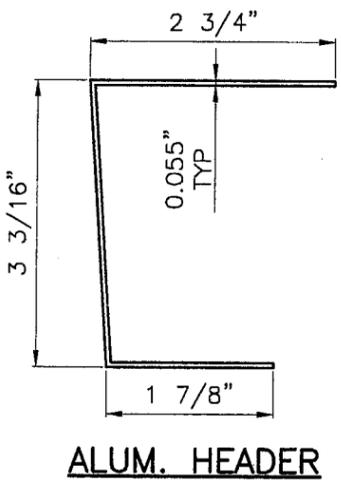
Approved as complying with the
Florida Building Code
Date: 09/11/2008
NOA# 08-0804-06
Miami Dade Product Control
Division
By: *Helmy A. Alkhatib*

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|--|---|---|--|---|------|-------------|---|---------|---------------|--|--|--|--|--|--|
| 4/2/08 P.E. SEAL/SIGNATURE/DATE | TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CEMUSA CORPORATION EUROPEA DE MOBILIARIO URBANO S.A. <small>Oficina central: c/ Francisco Sancha nº 24 Tel.: 358 33 44 - Fax 358 08 67-28034 Madrid</small> | DRAWN BY: M.C.V. 9-13-07 DATE: 07-229 DRAWING No. | | | | | | | | | | | |
| | ROOF STRUCTURE PLAN ALTERNATE #2 | | <table border="1"> <tr> <td>No.</td> <td>Date</td> <td>Description</td> </tr> <tr> <td>1</td> <td>10/8/07</td> <td>O.C. COLUMNS.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> | No. | Date | Description | 1 | 10/8/07 | O.C. COLUMNS. | | | | | | |
| No. | Date | Description | | | | | | | | | | | | | |
| 1 | 10/8/07 | O.C. COLUMNS. | | | | | | | | | | | | | |
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SECTION A-A (ALTERNATE #1)

SECTION A-A (ALTERNATE #2)



ALUM. HEADER

Approved as complying with the
 Florida Building Code
 Date 09/11/2008
 NOA# 08-0804.06
 Miami-Dade Product Control
 Division
 By Helmy A. Alkhatib

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|------------------------------|---|---|--|---------------------------------------|
| P.E. SEAL/SIGNATURE/DATE | TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167 | MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL | CEMUSA CORPORATION EUROPEA DE MOBILIARIO URBANO S.A. <small>Oficinas centrales: c/ Francisco Sancho nº 24 Tel.: 358 33 44 - Fax 358 08 67-35034 Madrid</small> | DRAWN BY: M.C.V. |
| | | | | DATE: 9-13-07 |
| | | ROOF ALTERNATE #1 & #2 SECTIONS | 10/8/07 O.C. COLUMNS. | DATE: 07-229 DRAWING No. |
| | | | No. Date: Description: Revisions | SHEET 15 OF 15 |