



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Red Oaks Shutter, Inc.
221 S.W. 5th Court
Pompano Beach, Florida 33060-7911

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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: "Gladiator Screening Systems" Flexible Wind Abatement System

APPROVAL DOCUMENT: Drawing No. AD13-01, titled "Gladiator Screening Systems", sheets 1 through 10 of 10, prepared by MCY Engineering, Inc., dated April 03, 2013, signed and sealed by Yiping Wang, P.E., on April 04, 2013 bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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 NOA consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
04/18/2013

NOA No. 13-0205.09
Expiration Date: 04/18/2018
Approval Date: 04/18/2013
Page 1

Red Oaks Shutter, Inc.

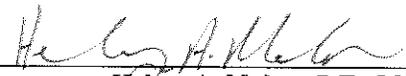
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. AD13-01, titled "Gladiator Screening Systems", sheets 1 through 10 of 10, prepared by MCY Engineering, Inc., dated April 03, 2013, signed and sealed by Yiping Wang, P.E., on April 04, 2013.*

B. TESTS

1. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3340, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
2. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3341, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
3. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3343, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
4. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3336, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
5. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4057, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
6. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4056, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
7. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3335, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
8. *Test report on Uniform Static Air Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4060, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 13-0205.09
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9. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-4061, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
10. *Compressive Strength of Cylindrical Concrete Specimens, per ASTM C39-12, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-C173, dated October 02, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
11. *Compressive Strength of Grout, per ASTM C39-12, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-C172, dated October 02, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
12. *Breaking Strength and Elongation of Textile Fabrics Grab Test per ASTM D 5034-09 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-T121, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
13. *Breaking Strength and Elongation of Textile Fabrics Grab Test per ASTM D 5034-09 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-T122, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
14. *Sewn Seams Strength Using Grab Tensile Test per ASTM D 1683-11a prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-T123, dated September 21, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
15. *Breaking Force and elongation of Textile fabrics per ASTM D 638-10/ASTM D 5035-11 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-U108, dated July 24, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
16. *Breaking Force and elongation of Textile fabrics per ASTM D 638-10/ASTM D 5035-11 prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-U109, dated July 24, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
17. *Accelerated Weathering Using Xenon Arc light Apparatus per ASTM G 155-05a prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-12-A403, dated July 24, 2012, signed and sealed by Rafael E. Droz-Seda, P.E.*
18. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3345, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*
19. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Gladiator Screening System Flexible Hurricane Wind Abatement System, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-11-3344, dated December 12, 2011, signed and sealed by Rafael E. Droz-Seda, P.E.*



Helmy A. Makar, P.E., M.S.
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Red Oaks Shutter, Inc.

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C. CALCULATIONS

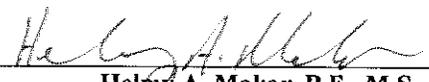
1. *Comparative Analysis and Anchor calculations dated November 03, 2012, Pages L-1, L-2, D-1, TR-1, A-1 through A-31, R-1 through R-3, T-1 through T-55, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.*

D. QUALITY ASSURANCE

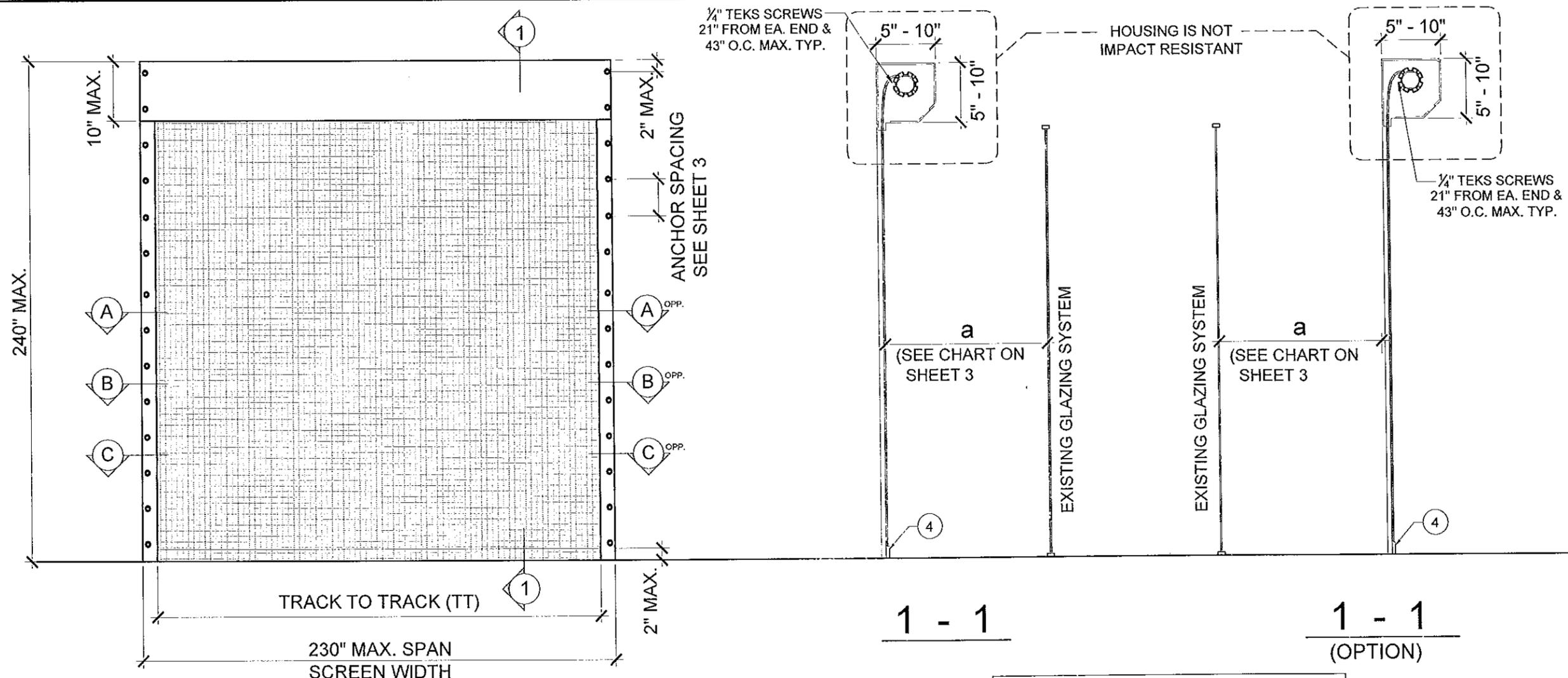
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *Fabric specifications.*



Helmy A. Makar, P.E., M.S.
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GLADIATOR ROLLING SCREEN SYSTEM WITH HOUSING
(L.M.I. & S.M.I.)

DESIGN LOADS V.S. SCREEN WIDTH
SEE CHART ON SHEET 3

GENERAL NOTES:

- THE ROLLING SCREEN SYSTEM IS NON-POROUS LARGE/SMALL MISSILE IMPACT PROTECTION DEVICE. IT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION. FOR USE INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- THIS PRODUCT HAVE BEEN TESTED AS PER FBC 2010 TAS 201, 202 (STRUCTURAL WIND LOAD ONLY) AND 203 FOR LARGE/SMALL MISSILE IMPACT. THE SYSTEM IS ALSO TESTED AS PER ASTM D635-06, ASTM D2843-99, ASTM D1929-96 AND ASTM G155.
- DESIGN LOAD SHALL BE DETERMINED BASED ON BASIC WIND SPEED, BUILDING HEIGHT AND WIND ZONE USING APPLICABLE ASCE 7-10 STANDARD.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FLORIDA BUILDING CODE SECTION 2003.8.4.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/E.O.R. TO VERIFY THAT THE EXISTING STRUCTURE OR APPROVED MULLION IS DESIGNED TO SUPPORT Fx & Fy FORCES AT END OF TRACK. FOR Fx & Fy REFER TO CHART ON SHEET 3.
- ROLLUP MECHANISM IS NOT PART OF THIS APPROVAL. CARE SHOULD BE TAKEN WHEN SECURITY SHIELD IS IN MOTION TO ENSURE THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.

- ALL SCREEN PANELS SHALL BE PERMANENTLY LABELED, IN A READILY VISIBLE LOCATION, WITH AT LEAST ONE LABEL STATING:

RED OAKS SHUTTER, INC.
221 SW 5TH CT
POMPANO BEACH, FL 33060
MIAMI DADE COUNTY
PRODUCT CONTROL APPROVAL # 13-0205.09

Approved as complying with the
Florida Building Code
Date 04/18/2013
NOA# 13-0205.09
Miami Dade Product Control
By *[Signature]*

APR 04 2013

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
N.C.A.# 528677

[Signature]

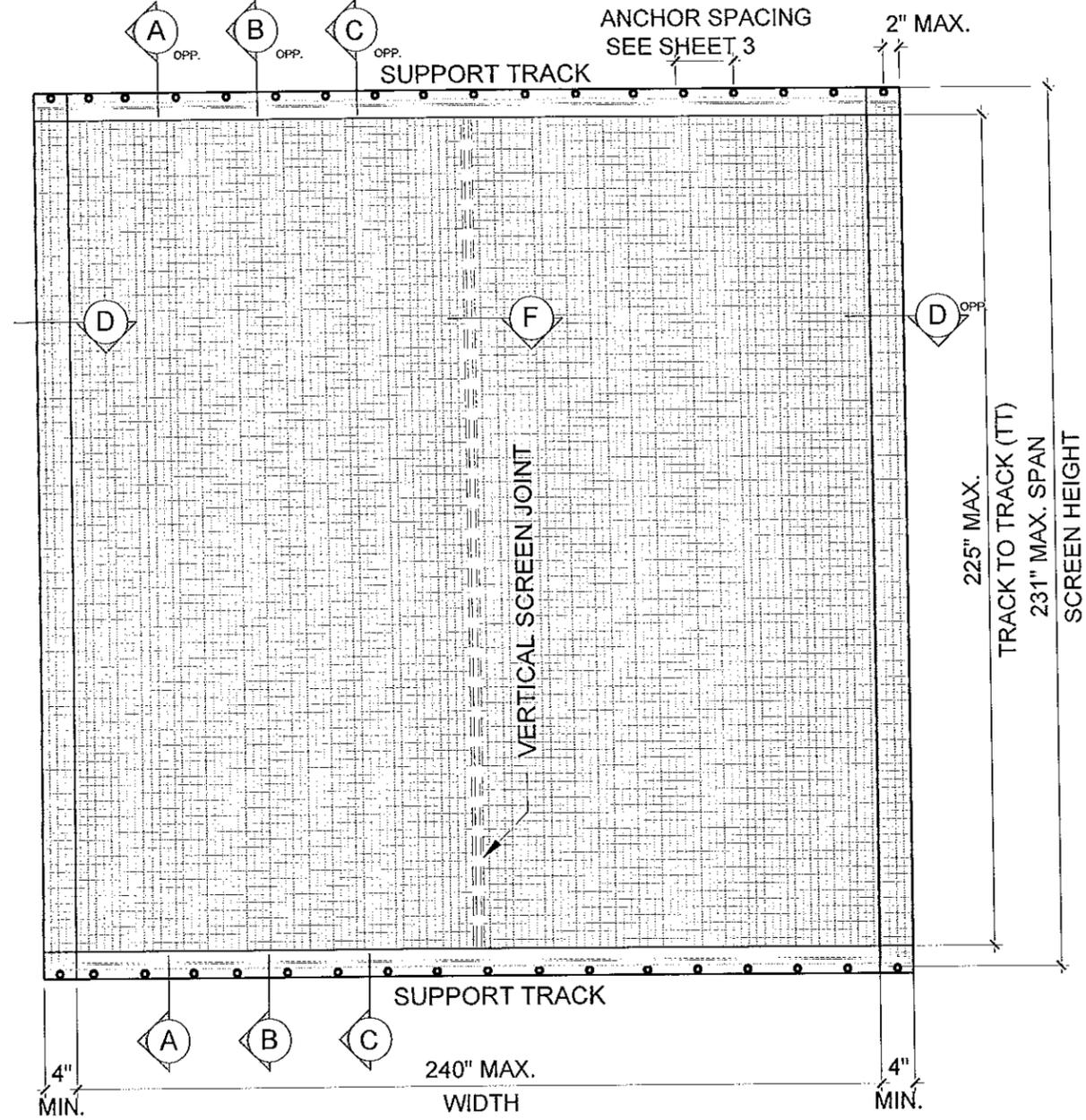
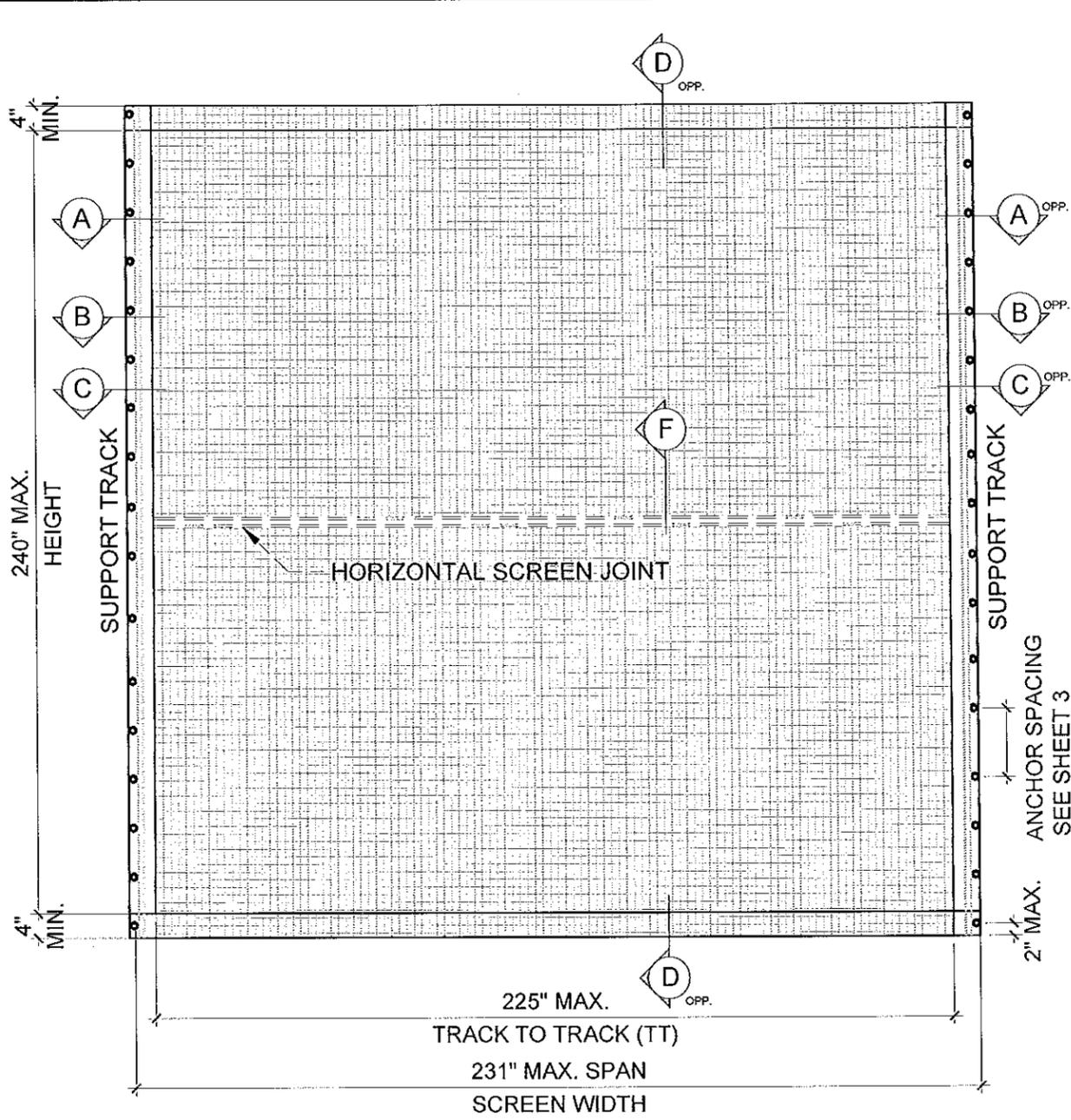
MIAMI DADE COUNTY

NO	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

GLADIATOR SCREENING SYSTEMS (LMI & SMI)
RED OAKS SHUTTER, INC.
221 SW 5TH CT
POMPANO BEACH, FL 33060
P: (954) 782 - 9325

DATE	4-3-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 13-001
DRAWING NO.	AD13-01
SHEET 1 OF 10	

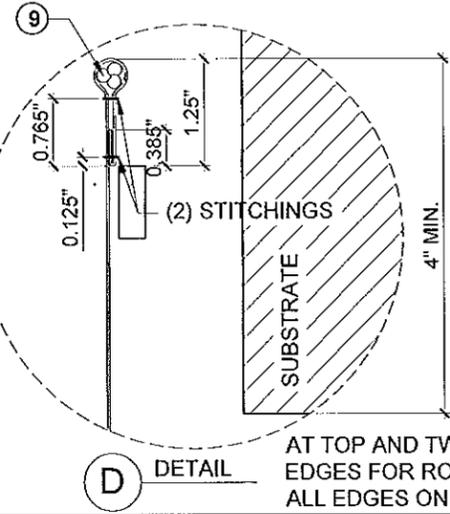


SCREEN ELEVATION
BOTH SIDES SUPPORT

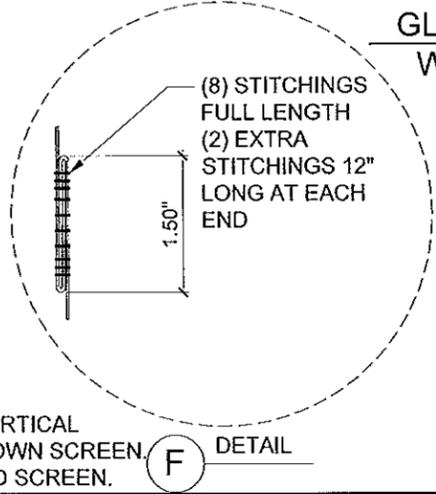
SCREEN ELEVATION
TOP & BOTTOM SUPPORT

GLADIATOR FIXED SCREEN SYSTEM
WITHOUT HOUSING (L.M.I. & S.M.I)

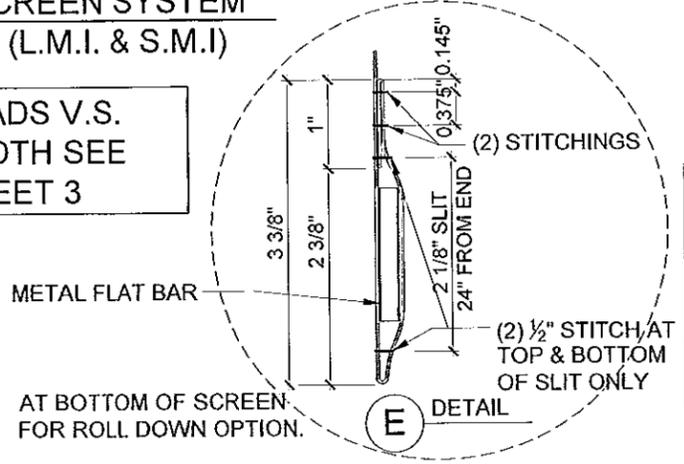
DESIGN LOADS V.S.
SCREEN WIDTH SEE
CHART ON SHEET 3



AT TOP AND TWO VERTICAL
EDGES FOR ROLL-DOWN SCREEN,
ALL EDGES ON FIXED SCREEN.



DETAIL F



AT BOTTOM OF SCREEN
FOR ROLL-DOWN OPTION.

Approved as complying with the
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Date 04/18/2013
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Miami Dade Product Control
By *[Signature]*

APR 04 2013

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
N.C.A.# 28677
[Signature]
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

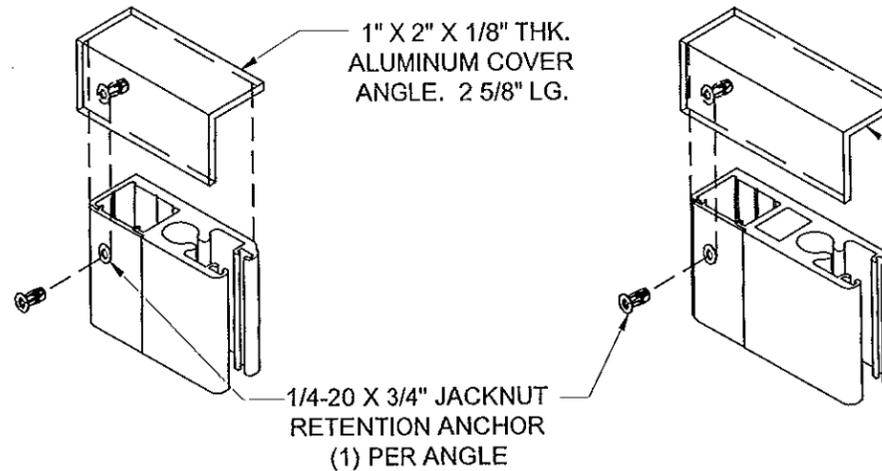
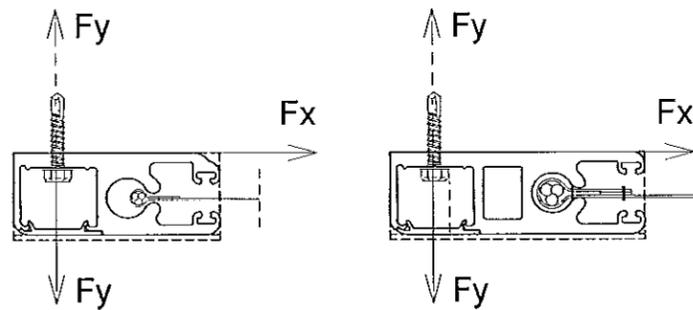
GLADIATOR SCREENING SYSTEMS (LMI & SMI)
RED OAKS SHUTTER, INC.
221 SW 5TH CT
POMPANO BEACH, FL 33060
P: (954) 782 - 9325

DATE	4-3-2013
SCALE	AS NOTED
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PROJECT	MCY 13-001
DRAWING NO.	AD13-01
SHEET	2 OF 10

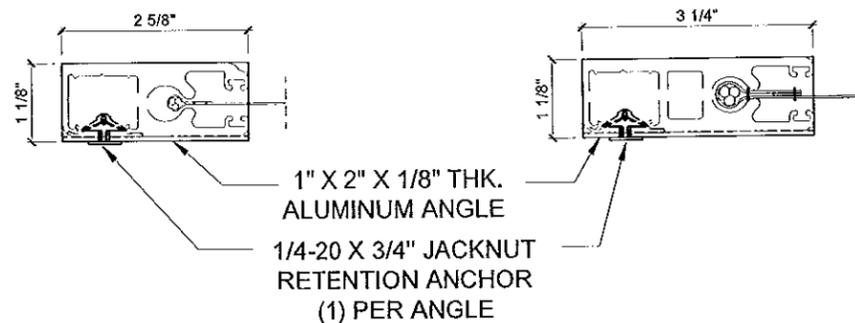
MIAMI DADE COUNTY

CHART FOR DESIGN LOAD VS. SPAN AND ANCHOR SPACING

MAX. DESIGN LOAD (PSF)	SPAN / SCREEN WIDTH (INCHES)	END REACTIONS AT TRACK		GLASS SEPARATION	ANCHOR SPACING (IN.)														
		Fx	Fy		a	DETAIL A					DETAIL B					DETAIL C			
		LBS/FT	LBS/FT	IN.	OPTION 1	OPTION 2	OPTION 3		OPTION 4	OPTION 1	OPTION 2	OPTION 3		OPTION 4	OPTION 1	OPTION 2	OPTION 3		OPTION 4
					CONCR.	CONCR. BLOCK	STEEL	ALUM.	WOOD	CONCR.	CONCR. BLOCK	STEEL	ALUM.	WOOD	CONCR.	CONCR. BLOCK	STEEL	ALUM.	WOOD
50	0 TO 84.0	602	175	9.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	120.0	685	250	15.0	5.5	5.5	5.5	5.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	156.0	734	325	21.7	5.5	5.5	5.5	4.6	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	192.0	761	400	29.9	5.1	5.2	5.5	4.2	4.8	5.2	5.4	5.5	5.3	5.5	5.5	5.5	5.5	5.5	5.5
	230.8	774	481	40.6	4.8	4.8	5.5	3.9	4.4	4.9	5.1	5.5	4.7	5.2	5.5	5.5	5.5	5.5	5.5
65	0 TO 72	732	195	9.5	5.5	5.5	5.5	5.2	5.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	0 TO 84.0	964	280	9.7	4.0	4.0	4.0	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80	120.0	1097	400	15.0	4.0	4.0	4.0	3.2	3.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	156.0	1175	520	26.8	3.5	-	4.0	2.9	3.3	-	3.7	4.0	3.7	4.0	4.0	4.0	4.0	4.0	4.0
	0 TO 79.0	1205	350	10.0	3.8	-	4.0	3.1	3.7	-	3.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



Approved as complying with the Florida Building Code
 Date 04/18/2013
 NOA# 13-0205-09
 Miami Dade Product Control
 By *[Signature]*



APR 04 2013

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N. 028677

MIAMI DADE COUNTY

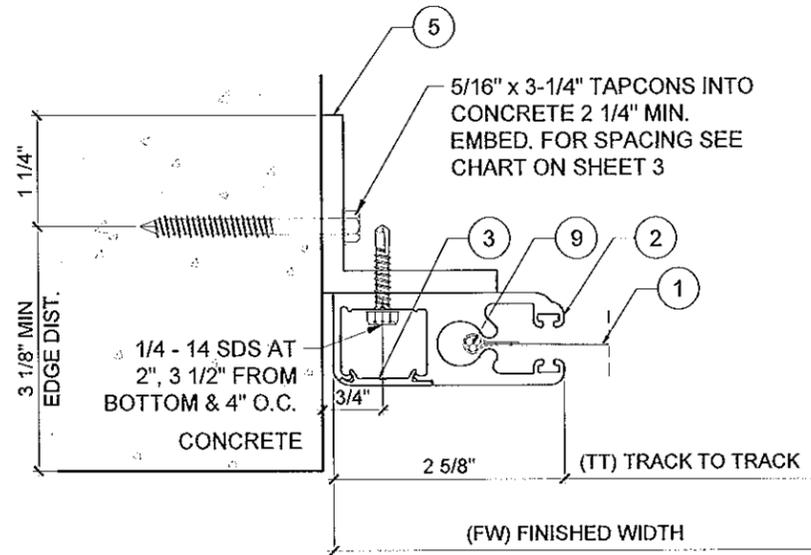
NO.	DATE	DESCRIPTION

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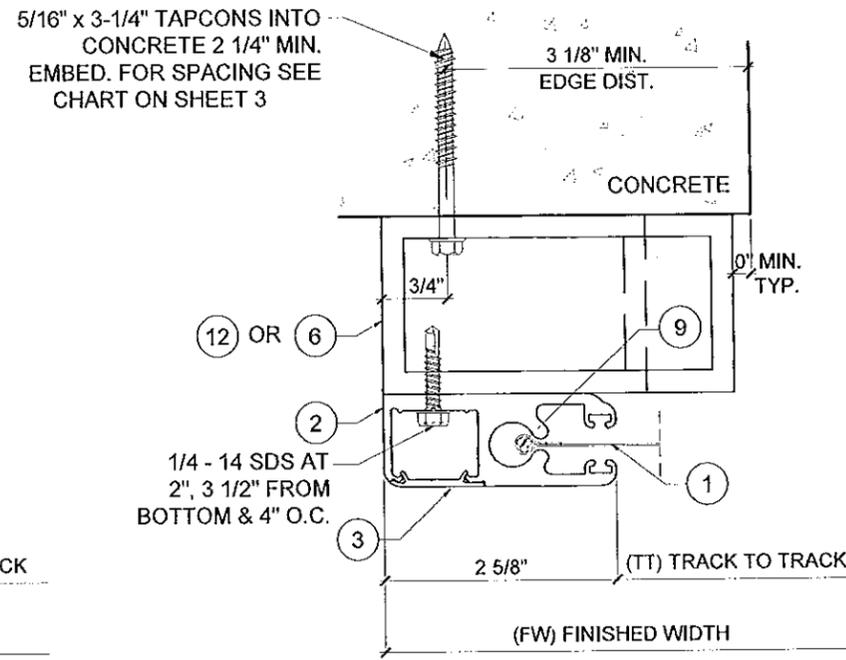
GLADIATOR SCREENING SYSTEMS (LMI & SMI)
RED OAKS SHUTTER, INC.
 221 SW 5TH CT
 POMPANO BEACH, FL 33060
 P: (954) 782 - 9325

DATE	4-3-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 13-001
DRAWING NO.	AD13-01
SHEET 3 OF 10	

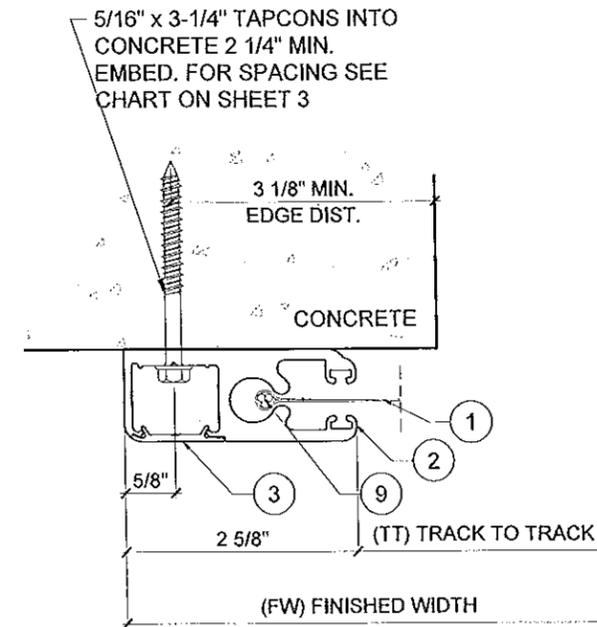
DETAILS WITH STANDARD TRACKS



A OPTION 1

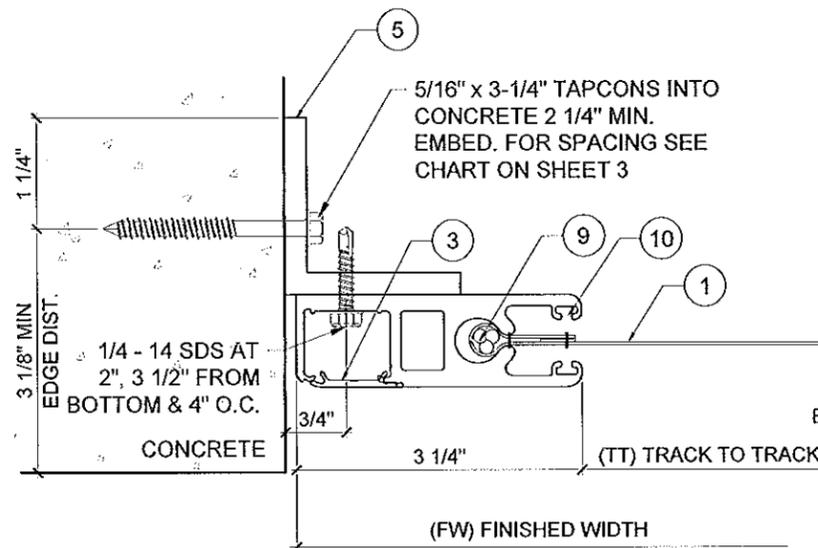


B OPTION 1

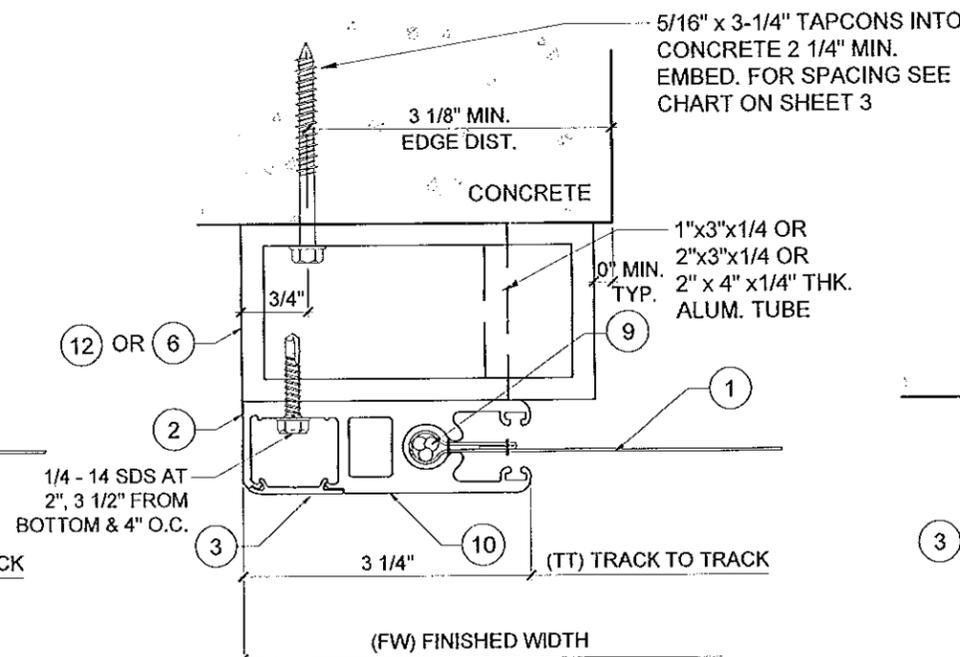


C OPTION 1

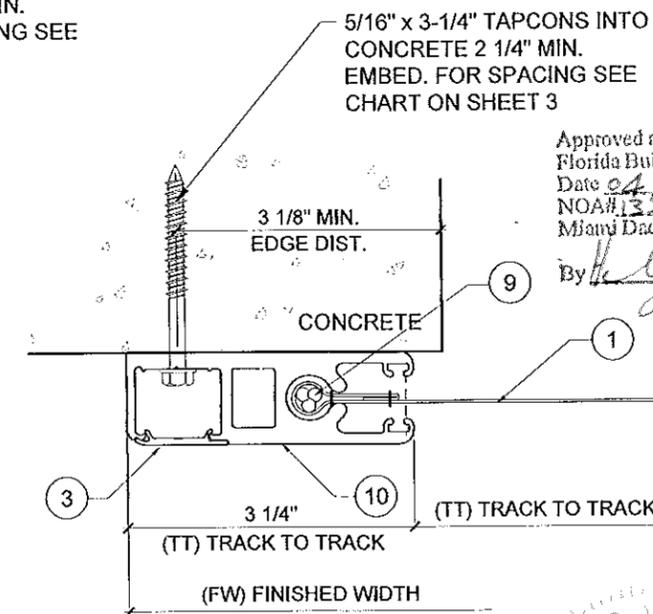
DETAILS WITH HEAVY DUTY TRACKS



A OPTION 1



B OPTION 1



C OPTION 1

ATTACHMENT TO CONCRETE
f_c = 4000 PSI MIN.

NO.	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A
MIAMI, FL 33183

P: 305.271.0117
F: 305.921.4786

www.MCYEngineering.com
MCY.Engineering@Att.net

Approved as complying with the
Florida Building Code
Date 04/18/2013
NOA# 13-0255-09
Miami Dade Product Control
By *[Signature]*

GLADIATOR SCREENING SYSTEMS (LMI & SMI)
RED OAKS SHUTTER, INC.
221 SW 5TH CT
POMPANO BEACH, FL 33060
P: (954) 782 - 9325

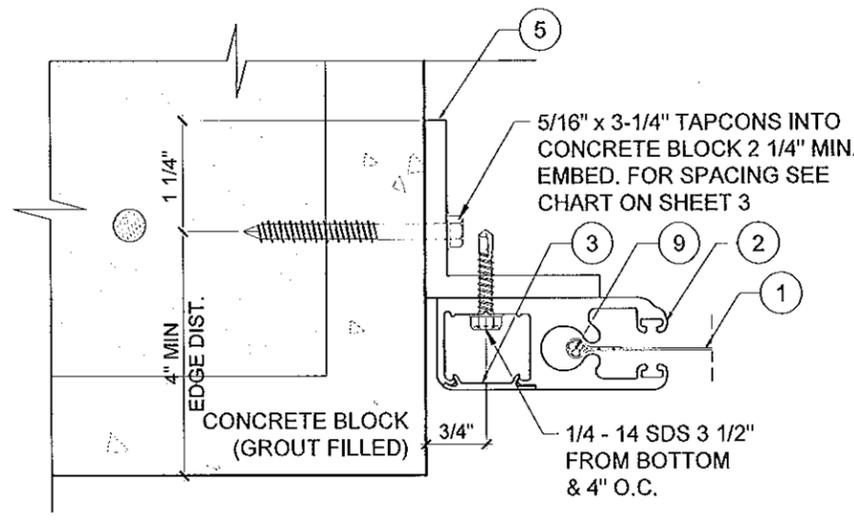
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #59983
M.C.A.N. 28677

[Signature]

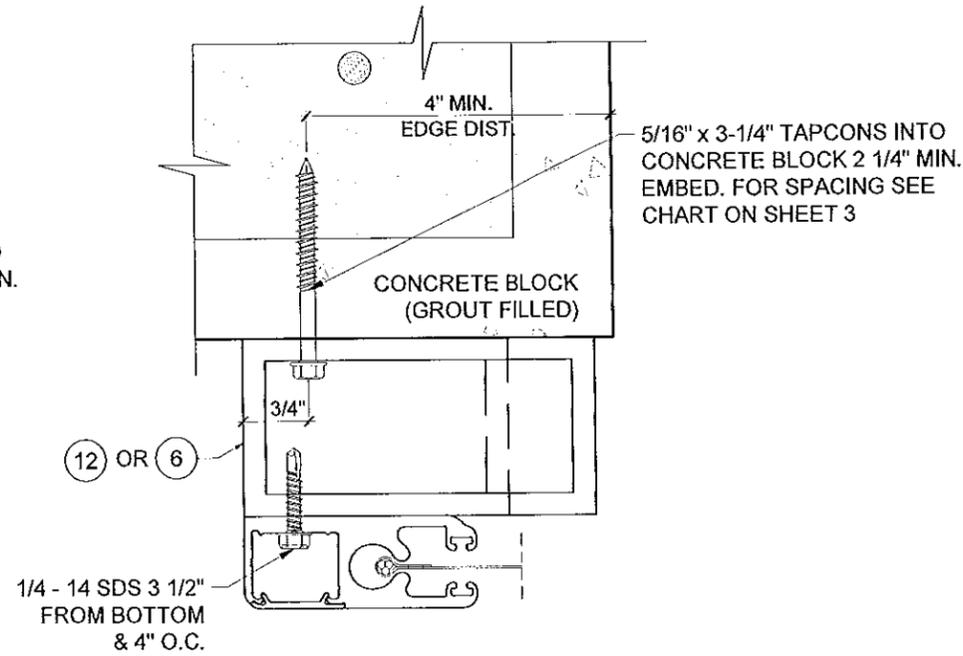
MIAMI DADE COUNTY

DATE	4-3-2013
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DRAWN	A.R.
PROJECT	MCY 13-001
DRAWING NO.	AD13-01
SHEET	4 OF 10

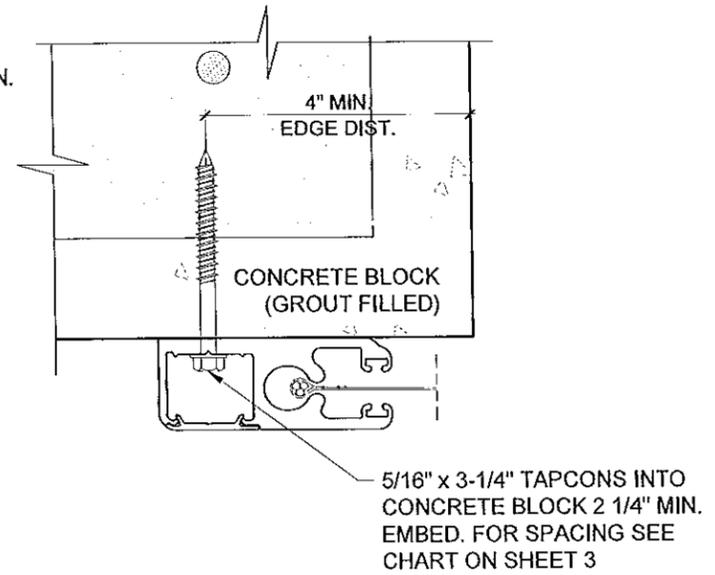
DETAILS WITH STANDARD TRACKS



A OPTION 2

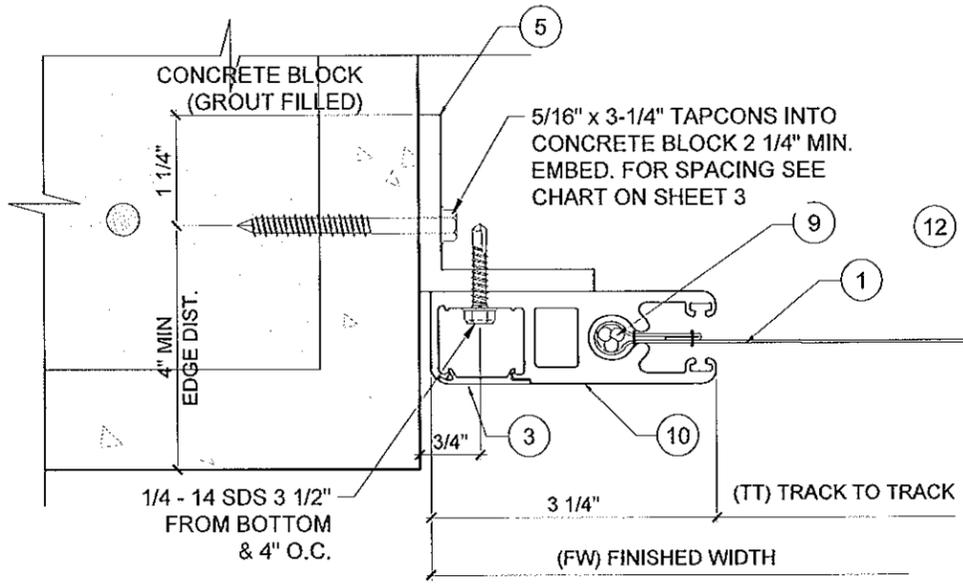


B OPTION 2

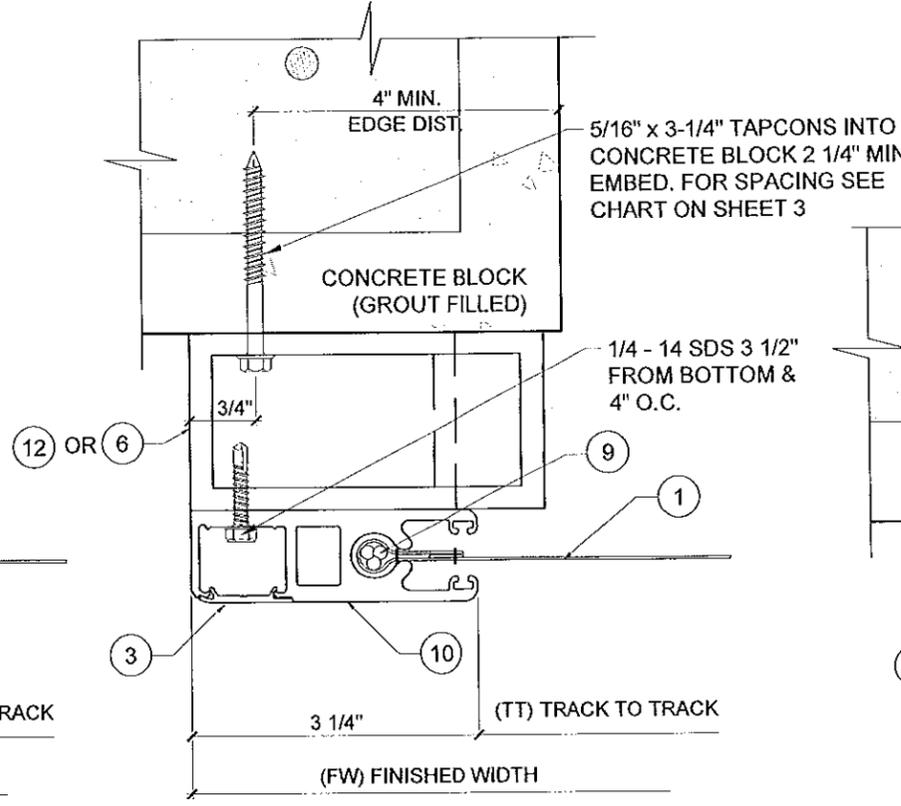


C OPTION 2

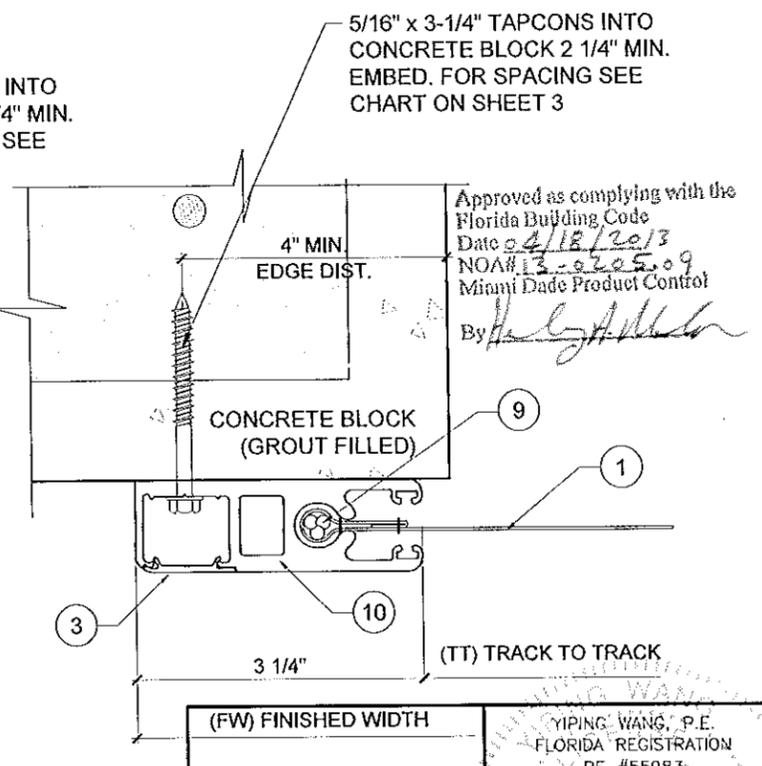
DETAILS WITH HEAVY DUTY TRACKS



A OPTION 2



B OPTION 2



C OPTION 2

ATTACHMENT TO GROUT FILLED CONCRETE BLOCK
 f_c = 2000 PSI MIN.

NO.	DATE	DESCRIPTION

MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 8501 SW 124 AVE, STE. 205A P: 305.271.0117
 MIAMI, FL 33183 F: 305.921.4786
 www.MCYEngineering.com MCY.Engineering@Att.net

GLADIATOR SCREENING SYSTEMS (LMI & SMI)
RED OAKS SHUTTER, INC.
 221 SW 5TH CT
 POMPANO BEACH, FL 33060
 P: (954) 782 - 9325

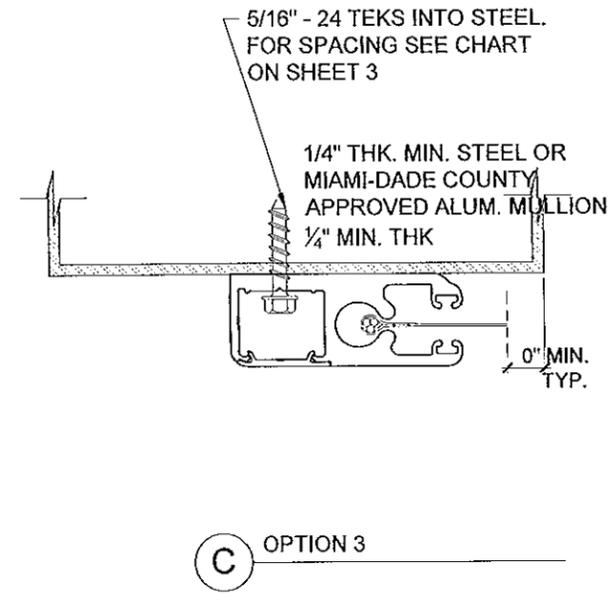
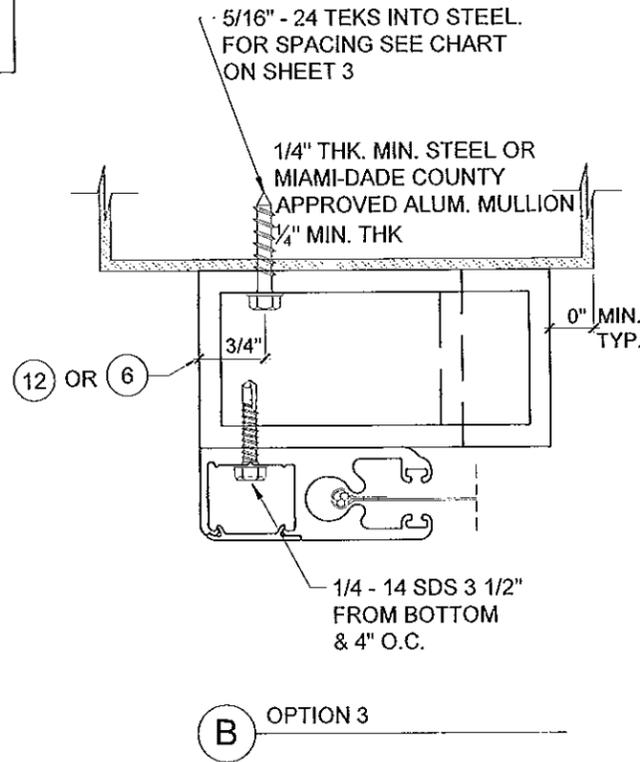
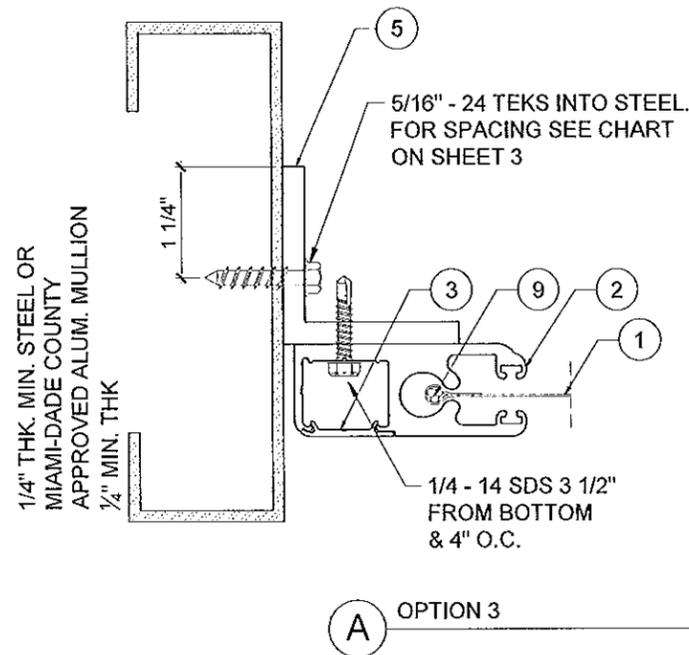
Approved as complying with the
 Florida Building Code
 Date 04/18/2013
 NOAH 13-0205-09
 Miami Dade Product Control
 By *[Signature]*

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N. 28677

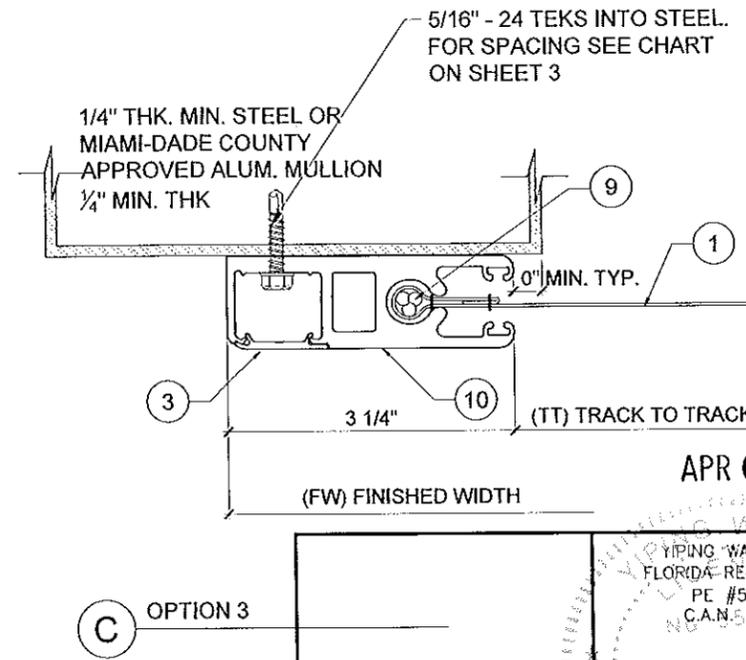
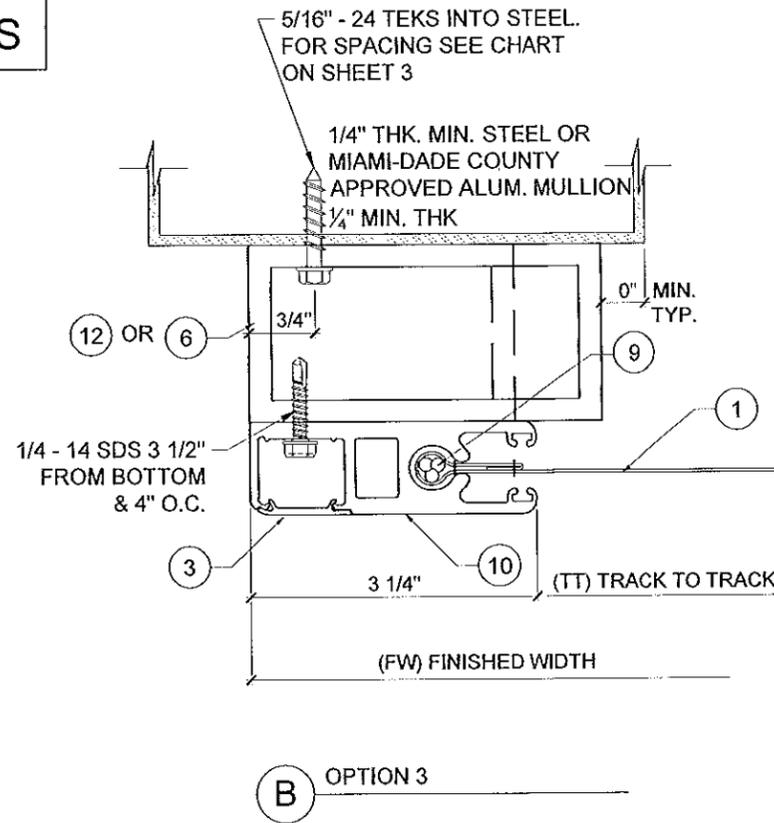
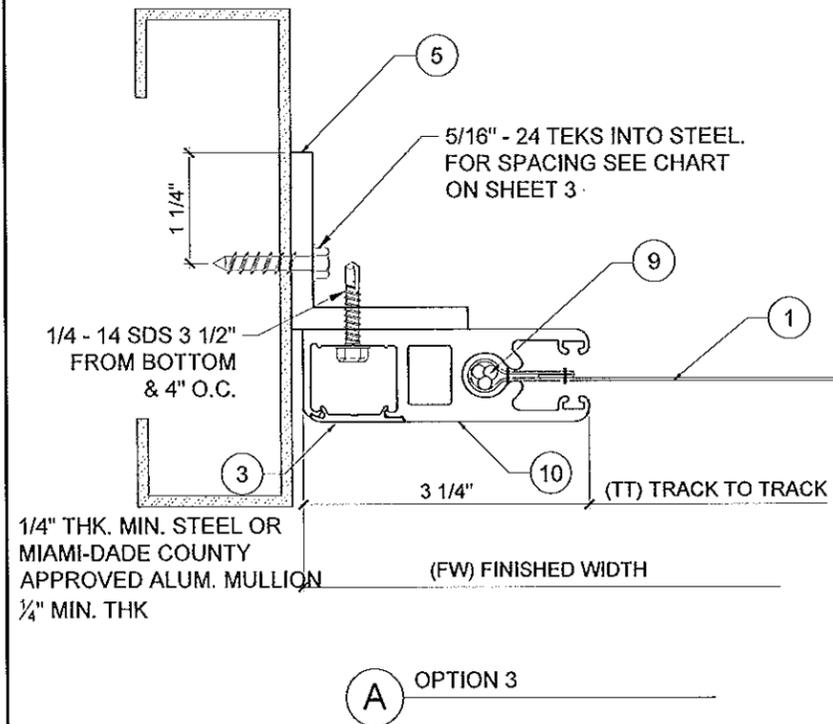
[Signature]
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA

DATE	4-3-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 13-001
DRAWING NO.	AD13-01
SHEET	5 OF 10

DETAILS WITH STANDARD TRACKS



DETAILS WITH HEAVY DUTY TRACKS



Approved as complying with the Florida Building Code
Date 04/18/2013
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Miami Dade Product Control
By *Healy A. Miller*

ATTACHMENT TO STEEL
A36. 1/4" MIN. THK.

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28577

NO.	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A
MIAMI, FL 33183

P: 305.271.0117
F: 305.921.4786

www.MCYEngineering.com
MCY.Engineering@Att.net

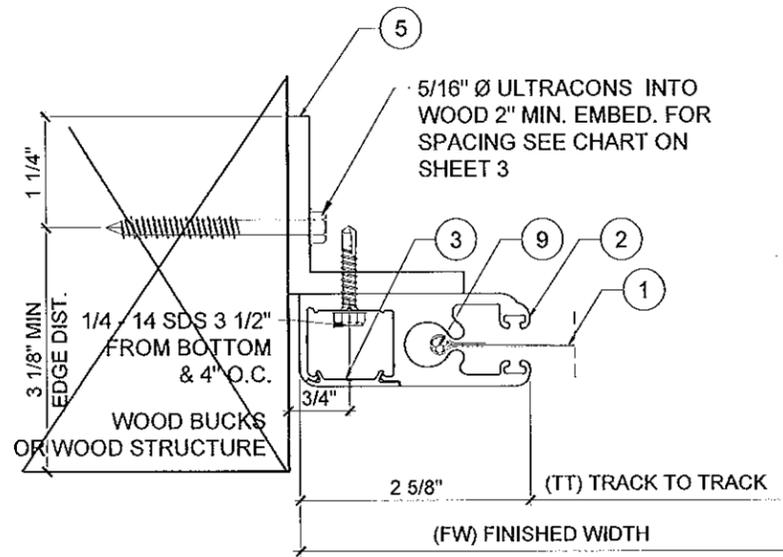
GLADIATOR SCREENING SYSTEMS (LMI & SMI)
RED OAKS SHUTTER, INC.
221 SW 5TH CT
POMPANO BEACH, FL 33060
P: (954) 782 - 9825

DATE: 4-3-2013
SCALE: AS NOTED
DRAWN: A.R.
PROJECT: MCY 13-001

DRAWING NO.
AD13-01

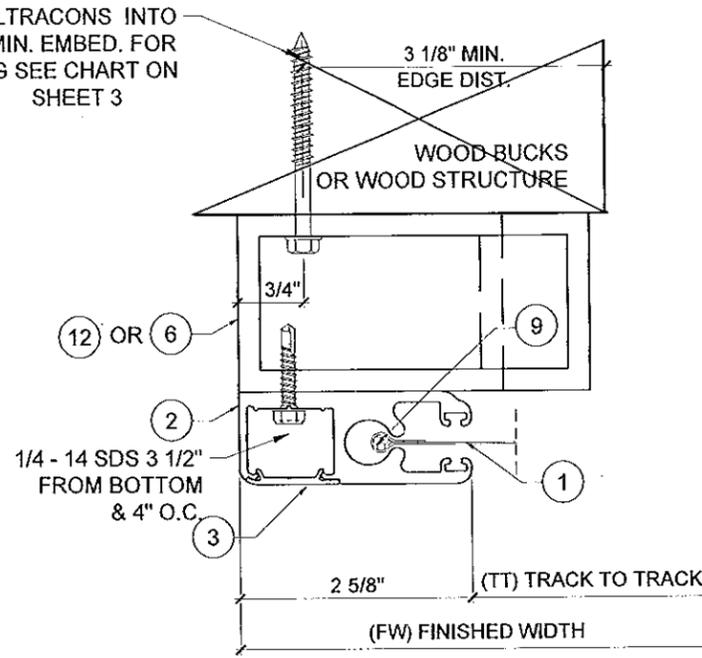
SHEET 6 OF 10

DETAILS WITH STANDARD TRACKS

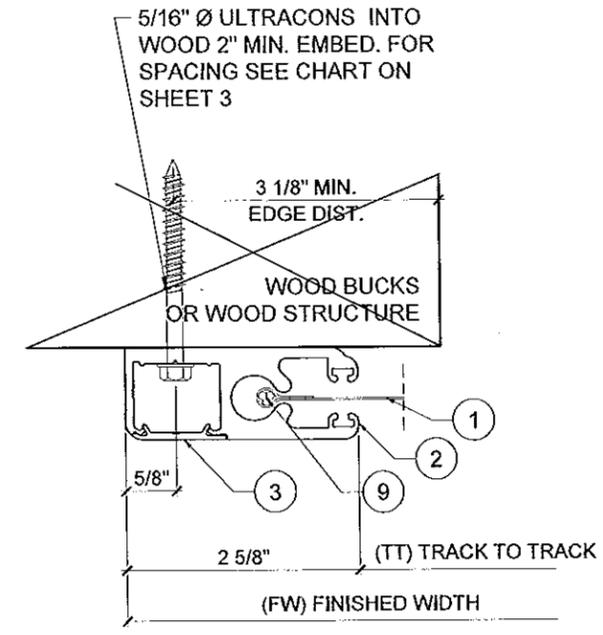


A OPTION 4

5/16" Ø ULTRACONS INTO WOOD 2" MIN. EMBED. FOR SPACING SEE CHART ON SHEET 3

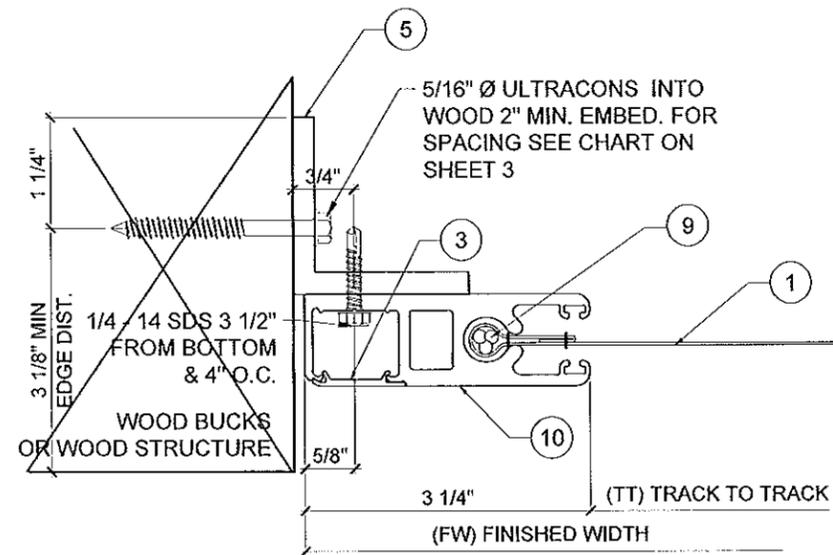


B OPTION 4



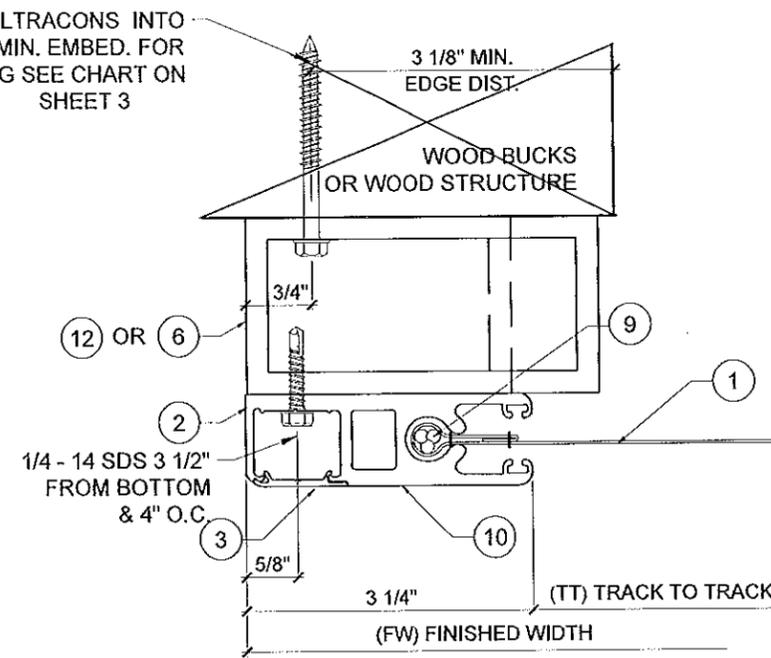
C OPTION 4

DETAILS WITH HEAVY DUTY TRACKS

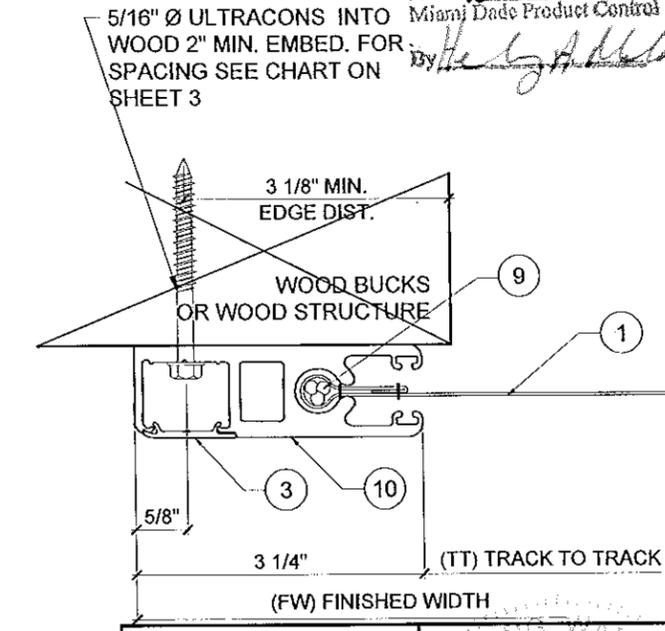


A OPTION 4

5/16" Ø ULTRACONS INTO WOOD 2" MIN. EMBED. FOR SPACING SEE CHART ON SHEET 3



B OPTION 4

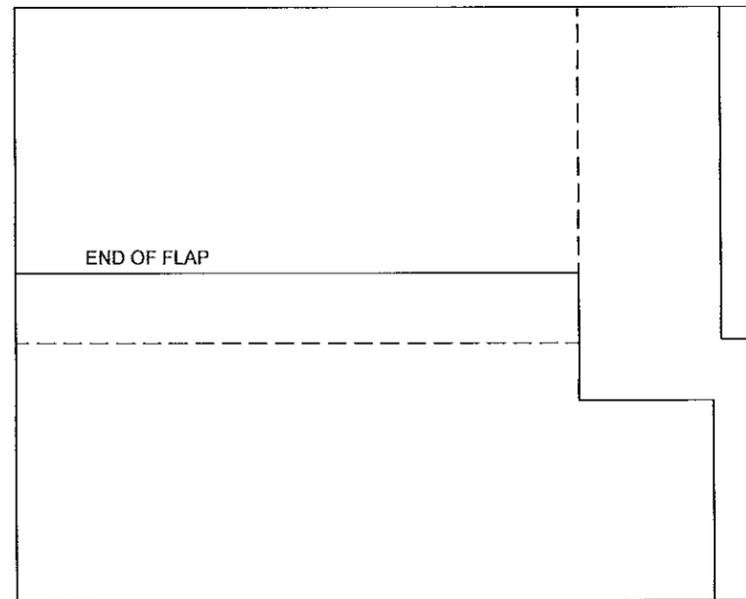
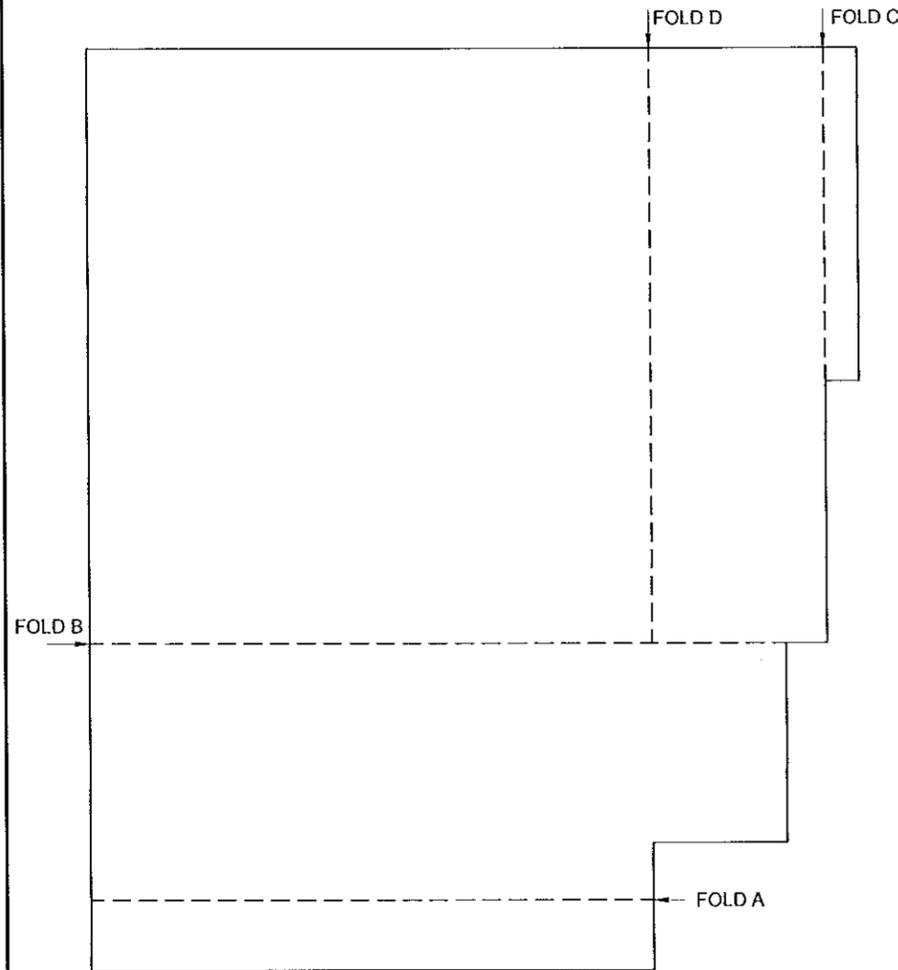


C OPTION 4

Approved as complying with the Florida Building Code
 Date 04/18/2013
 NOA# 13-0205-09
 Miami Dade Product Control
By: [Signature]

ATTACHMENT TO WOOD

<p>MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. STE. 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.921.4786 www.MCYEngineering.com MCY.Engineering@Att.net</p>	
<p>GLADIATOR SCREENING SYSTEMS (LMI & SMI) RED OAKS SHUTTER, INC. 221 SW 5TH CT POMPANO BEACH, FL 33060 P: (954) 782 - 9325</p>	
<p>DATE 4-3-2013 SCALE AS NOTED DRAWN A.R. PROJECT MCY 13-001</p>	<p>DRAWING NO. AD13-01 SHEET 7 OF 10</p>



1 SCREEN BOTTOM EDGE

SUMMARY OF TEST RESULTS

TEST STANDARDS	DESCRIPTION	TEST RESULT	MIAMI DADE COUNTY CRITERIA	HURRICANE ENGINEERING AND TESTING NUMBER
ASTM D1929-96	SELF IGNITION TEMPERATURE (SIT)	SIT=751°F	ACCEPTABLE IF >650°F	TEL-01700388C
ASTM D635	RATE OF BURNING (CC1 / C-1)	CC1/C-1 LESS THAN 1.0 IN./MIN.	PASS IF < 1.0 IN./MIN	HETI-12-F108
ASTM D635	AVERAGE TIME OF BURNING	---	---	HETI-12-F108
ASTM D635	AVERAGE EXTENT OF BURNING	---	---	HETI-12-F108
ASTM D2843-99	SMOKE DENSITY (SDR)	SDR=10.6%	ACCEPTABLE IF <75%	TEL-01700388B
ASTM G155-05a	ACCELERATED WEATHERING	+7.2% DIFFERENCE	ACCEPTABLE IF <10%	HETI-12-A403

BREAKING STRENGTH & ELONGATION OF TEXTILE FABRICS

TEST	MAX. FORCE	ELONGATION	HURRICANE ENGINEERING AND TESTING NUMBER	
ASTM D638 & ASTM D5035-11	473 lb/in	98.6%	HETI-12-U109	WEAK DIRECTION
ASTM D638 & ASTM D5035-11	438.8 lb/in	94.80%	HETI-12-U108	WEAK DIRECTION
ASTM D1683-11A	231.7 lb/in	25.00%	HETI-12-T123	AT SEWN SEAMS
ASTM D5034-09	742.6 lb/in	19.60%	HETI-12-T122	STRONG DIRECTION
ASTM D5034-09	449.8 lb/in	74.60%	HETI-12-T121	WEAK DIRECTION

APR 04 2013

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 Miami Dade Product Control

By *[Signature]*

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N. 286773

MIAMI DADE COUNTY

NO	DATE	DESCRIPTION

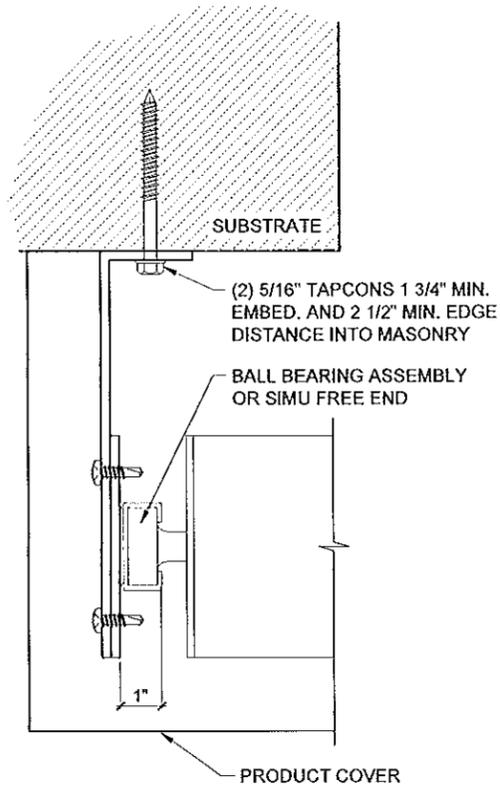
MCY ENGINEERING, INC.
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 8501 SW 124 AVE. STE. 205A P: 305.271.0117
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GLADIATOR SCREENING SYSTEMS (LMI & SMI)
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 221 SW 5TH CT
 POMPANO BEACH, FL 33060
 P: (954) 782 - 9925

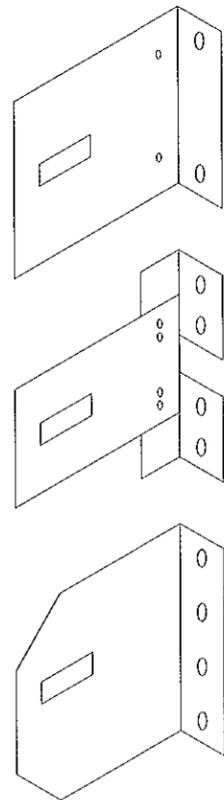
DATE	4-3-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 13-001

DRAWING NO.
AD13-01

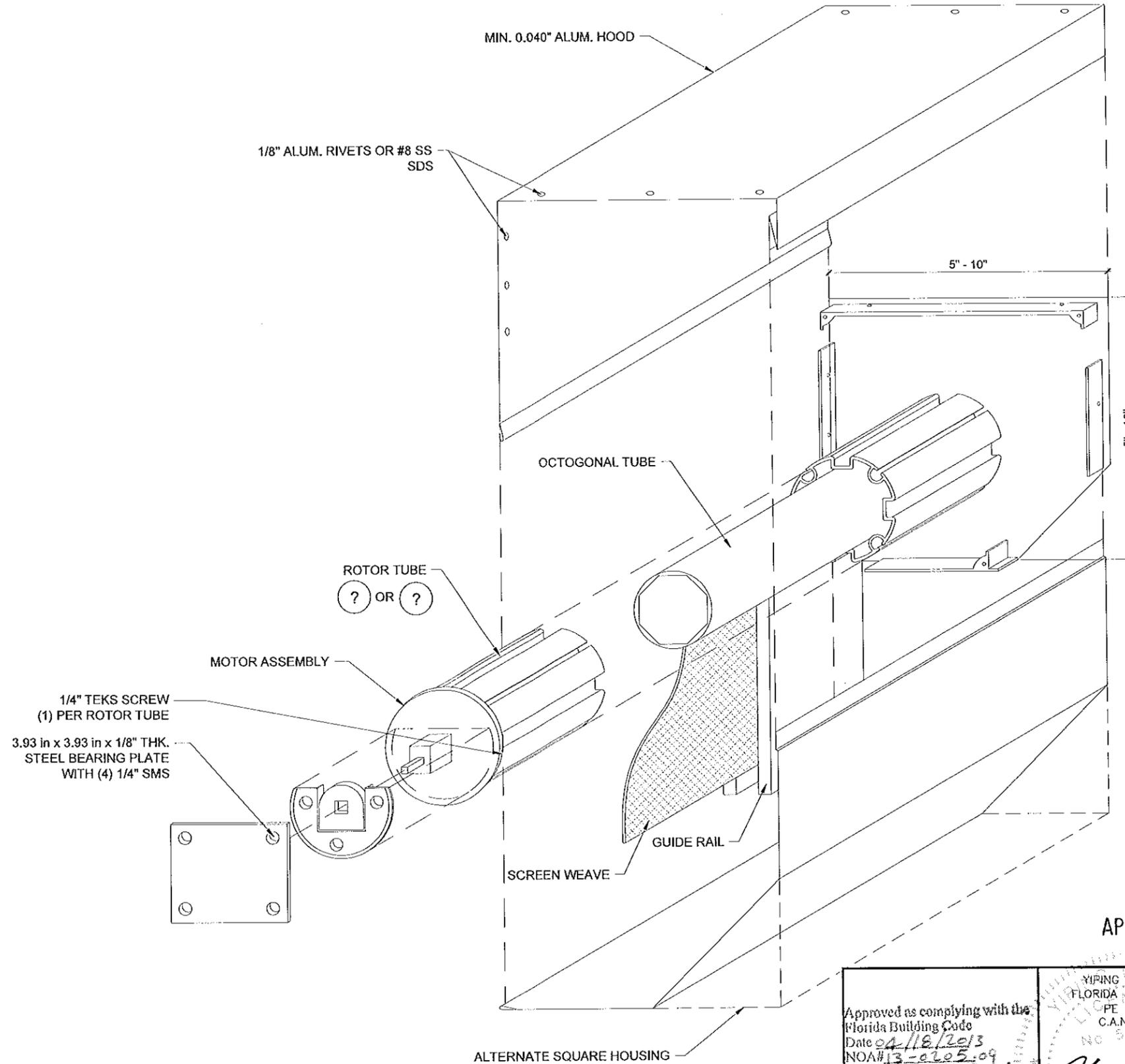
SHEET 8 OF 10



CUSTOM HOOD / BRACKET WALL MOUNT



WALL MOUNT BRACKET OPTIONS



HOUSING ASSEMBLY DETAIL - OPTION
NOT PART OF THIS NOA

APR 04 2013

Approved as complying with the Florida Building Code
 Date 04/18/2013
 NOA# 13-0205-09
 Miami Dade Product Control
 By *[Signature]*

YIPING WANG, P.E.
 FLORIDA REGISTRATION
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 C.A.N. 28677

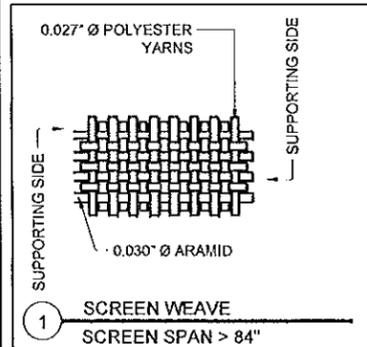
MIAMI DADE COUNTY

NO.	DATE	DESCRIPTION

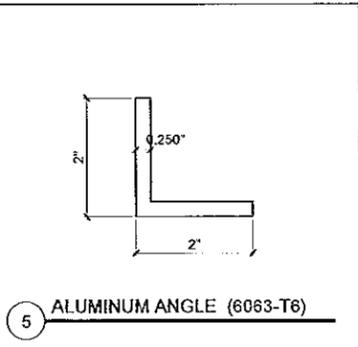
MCY ENGINEERING, INC.
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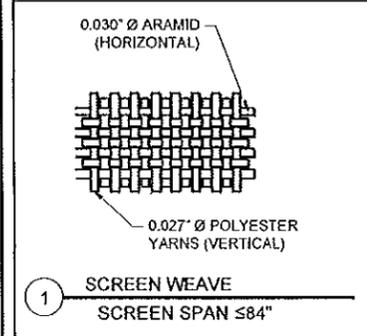
DATE	4-3-2013
SCALE	AS NOTED
DRAWN	A.R.
PROJECT	MCY 13-001
DRAWING NO.	AD13-01
SHEET	9 OF 10



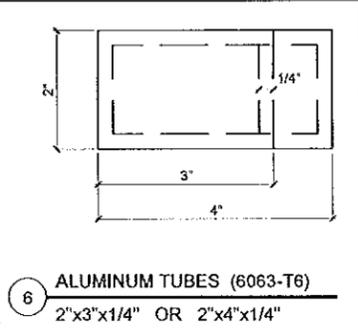
1 SCREEN WEAVE
SCREEN SPAN > 84"



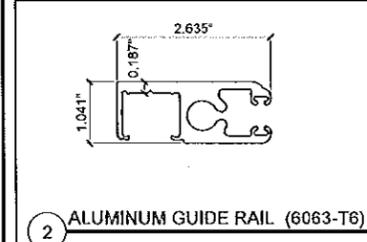
5 ALUMINUM ANGLE (6063-T6)



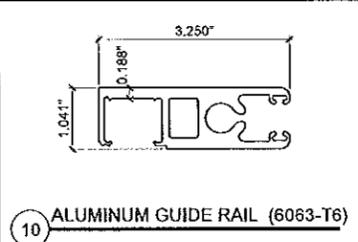
1 SCREEN WEAVE
SCREEN SPAN ≤ 84"



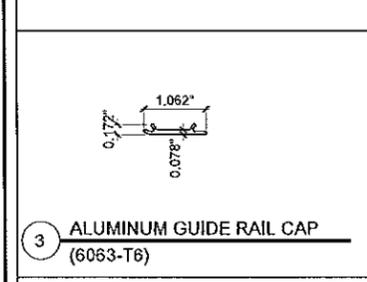
6 ALUMINUM TUBES (6063-T6)
2"x3"x1/4" OR 2"x4"x1/4"



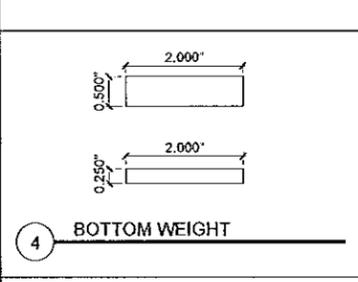
2 ALUMINUM GUIDE RAIL (6063-T6)



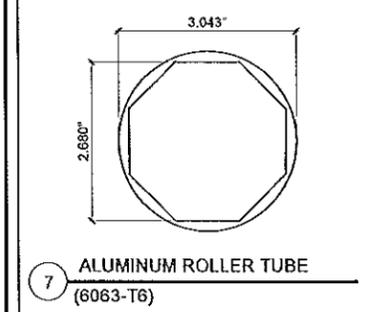
10 ALUMINUM GUIDE RAIL (6063-T6)



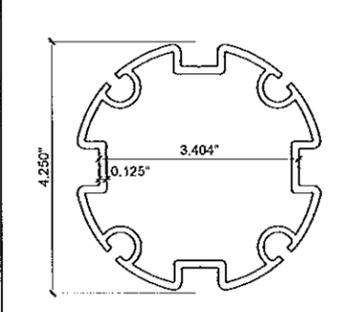
3 ALUMINUM GUIDE RAIL CAP
(6063-T6)



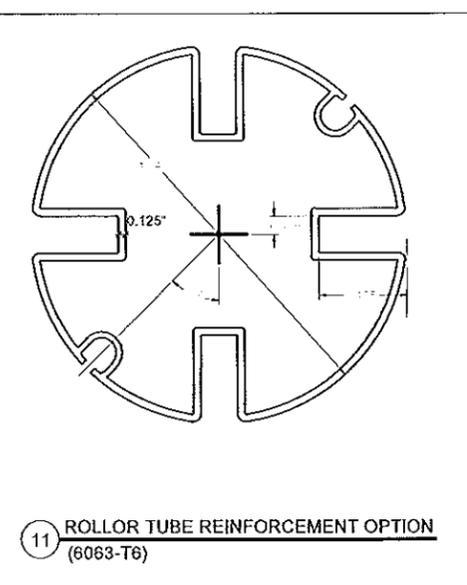
4 BOTTOM WEIGHT



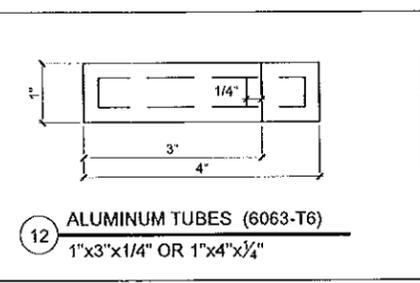
7 ALUMINUM ROLLER TUBE
(6063-T6)



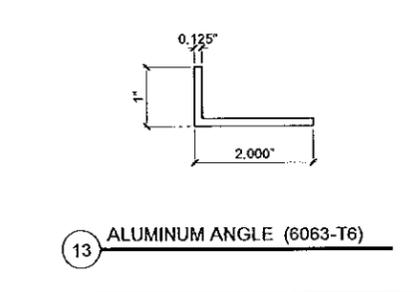
8 ROLLOR TUBE REINFORCEMENT
(6063-T6)



11 ROLLOR TUBE REINFORCEMENT OPTION
(6063-T6)



12 ALUMINUM TUBES (6063-T6)
1"x3"x1/4" OR 1"x4"x1/4"



13 ALUMINUM ANGLE (6063-T6)

BILL OF MATERIALS

ITEM #	QTY.	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/ REMARKS
1	AS REQD.	T03A15899	SCREEN WOVEN	POLYESTER	0.045" THICK / TWITCHELL CORP.
2	2 EACH	-	STANDARD GUIDE RAIL	ALUM. 6063-T6	KAPCA VENTURES, LLC.
3	2 EACH	-	GUIDE RAIL CAP	ALUM. 6063-T6	KAPCA VENTURES, LLC.
4	1 OR 2 EACH	-	BOTTOM WEIGHT	STEEL OR ALUMINUM	KAPCA VENTURES, LLC.
5	AS REQD.	-	ALUMINUM ANGLE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
6	AS REQD.	-	ALUMINUM TUBE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
7	AS REQD.	-	ROLLER TUBE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
8	AS REQD.	-	ROLLER TUBE REINFORCEMENT	ALUM. 6063-T6	KAPCA VENTURES, LLC.
9	1 PER SIDE	0.325 DIA.	(3) 5/16"-STRAND STWISTED ROPE	POLYPROPYLENE	KAPCA VENTURES, LLC.
10	2 EACH	-	HEAVE DUTY GUIDE RAIL	ALUM. 6063-T6	KAPCA VENTURES, LLC.
11	AS REQD.	-	ROLLER TUBE REINFORCEMENT	ALUM. 6063-T6	KAPCA VENTURES, LLC.
12	AS REQD.	-	ALUMINUM TUBE	ALUM. 6063-T6	KAPCA VENTURES, LLC.
13	AS REQD.	-	ALUMINUM ANGLE 1"x2"x1/8"	ALUM. 6063-T6	KAPCA VENTURES, LLC.

NOTE: ROLLER TUBE REINFORCEMENT CONTINUOUS WHEN SCREEN WIDTH ≥ 150" OTHERWISE 2" LONG AT 24" O.C.

Approved as complying with the Florida Building Code
Date 04/18/2013
NOAH 13-0125-109
Miami Dade Product Control
By *[Signature]*

APR 04 2013

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
CAN. 28677
[Signature]

MIAMI DADE COUNTY

REVISIONS	
NO.	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE. STE. 205A
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