



**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)

**Arrow Group Industries, Inc.
1101 N. 4th Street
Breese, IL 62230**

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: Cold Formed Steel Utility Sheds

APPROVAL DOCUMENT: Drawing No. S1, S2 and S3, titled "6' x 5', 8' x 6', 8' x 8' & 10' x 8' Utility Sheds", sheets S1 through S3, dated 08/01/2007, prepared by McGinnis & Associates Consulting Engineers, Inc., signed and sealed by Daniel W. McGinnis, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit 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 NOA **revises & renews** NOA # **06-0505.07** and 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
09/13/2007

**NOA No. 07-0214.15
Expiration Date: 08/24/2012
Approval Date: 09/13/2007**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 98-0113.03

A. DRAWINGS

1. *Drawing No. S1, S2, & S3, total 3 sheets, prepared by R. T. Wharton, P.E., titled " 6' x 5', 8' x 6', 8' x 8', & 10' x 8' Utility Sheds", dated December 12, 1997, last revision #1 dated July 13 (sheets S1 & S3) and July 14 (sheet S2), 1998, signed and sealed by R. T. Wharton, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of "Utility Shed Doors", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-693, dated 11/18/97, signed and sealed by Hector M. Medina, P.E.*
2. *Test report on Uniform Static Air Pressure Test of "Utility Shed Doors", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-692, dated 11/18/97, signed and sealed by Hector M. Medina, P.E.*
3. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of "Utility Shed Panels", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-691, dated 11/17/97, signed and sealed by Hector M. Medina, P.E.*
4. *Test report on Uniform Static Air Pressure Test of "Utility Shed Panels", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-690, dated 11/17/97, signed and sealed by Hector M. Medina, P.E.*

C. CALCULATIONS

1. *Calculation of " 6' x 5', 8' x 6', 8' x 8', & 10' x 8' Utility Buildings" and anchor calculations dated 12/26/97, pages 1 to 39 of 39, prepared by Van Dam Engineering, signed and sealed by R. T. Wharton, P.E.*
2. *Calculation of " 6' x 5', 8' x 6', 8' x 8', & 10' x 8' Utility Buildings" and anchor calculations dated 07/14/98, pages 1 to 10 of 10, prepared by Van Dam Engineering, signed and sealed by R. T. Wharton, P.E.*

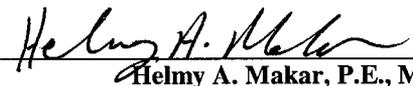
D. MATERIAL CERTIFICATIONS

1. *Mill Certified Test Report issued by National Steel Corporation, with chemical composition and mechanical properties of structural members.*
2. *Mill Certified Test Report issued by Bethlehem Steel Corporation, with chemical composition and mechanical properties of cold-formed panel, dated 07/09/98.*
3. *Tensile Test Report No. HETI-97-T64, prepared by Hurricane Engineering & Testing, Inc., dated 12/29/97, signed and sealed by Hector M. Medina, P.E.*
4. *Tensile Test Report No. HETI-97-T65, prepared by Hurricane Engineering & Testing, Inc., dated 12/29/97, signed and sealed by Hector M. Medina, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 01-0430.04

A. DRAWINGS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-0214.15
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Arrow Group Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0401.03

A. DRAWINGS

See NOA 01-0430.04

B. TESTS

See NOA 01-0430.04

C. CALCULATIONS

See NOA 01-0430.04

D. MATERIAL CERTIFICATIONS

See NOA 01-0430.04

E. STATEMENTS

See NOA 01-0430.04

F. OTHER

See NOA 01-0430.04

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0505.07

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

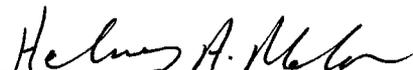
1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
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Arrow Group Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. S1, S2 and S3, titled "6' x 5', 8' x 6', 8' x 8' & 10' x 8' Utility Sheds", sheets S1 through S3, dated 08/01/2007, prepared by McGinnis & Associates Consulting Engineers, Inc., signed and sealed by Daniel W. McGinnis, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

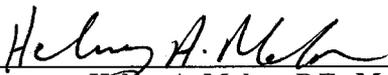
1. *None.*

D. QUALITY ASSURANCE

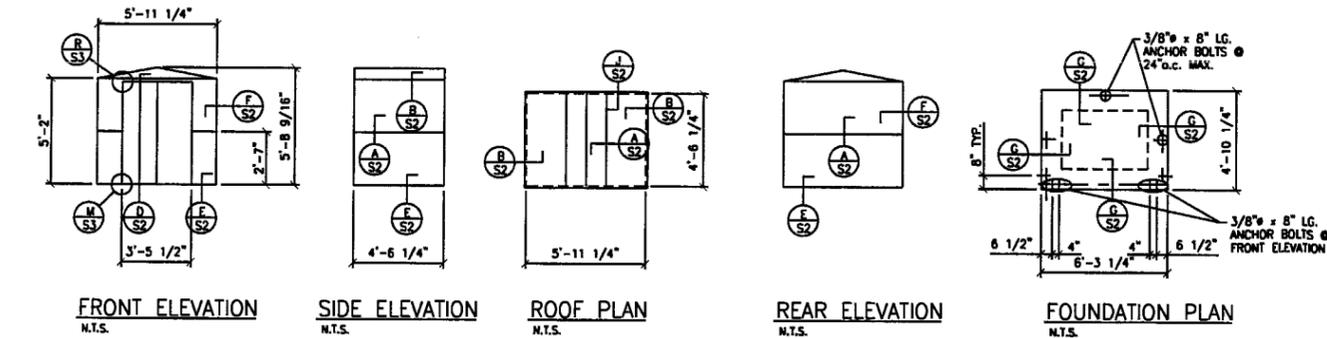
1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

2. *None.*

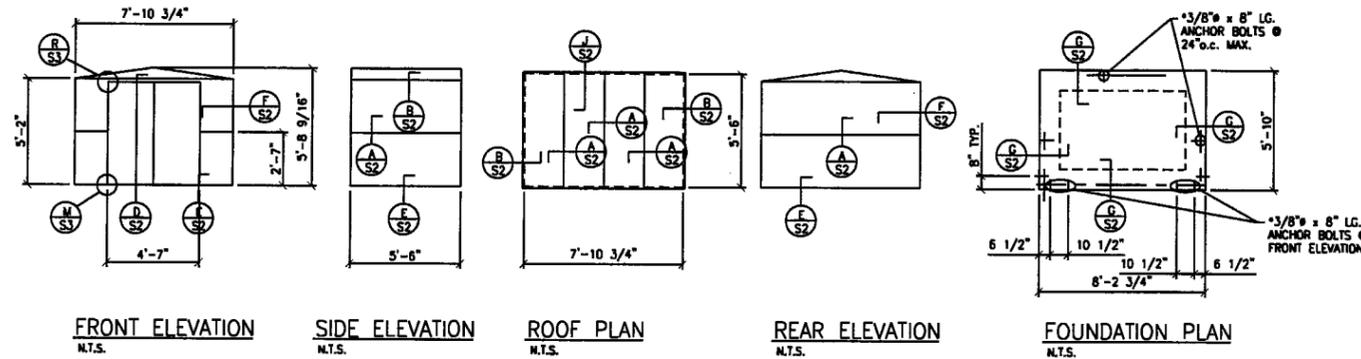


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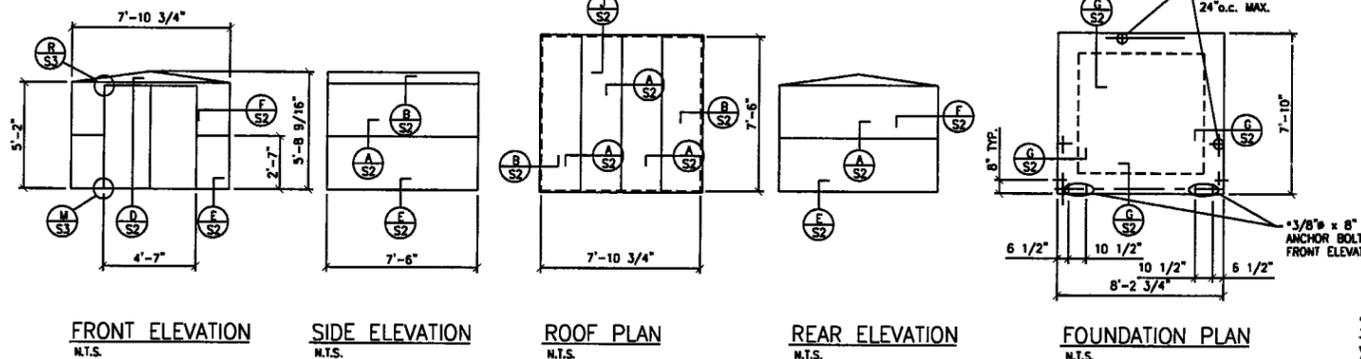
FRONT ELEVATION N.T.S. SIDE ELEVATION N.T.S. ROOF PLAN N.T.S. REAR ELEVATION N.T.S. FOUNDATION PLAN N.T.S.

6' x 5' BUILDING N.T.S.



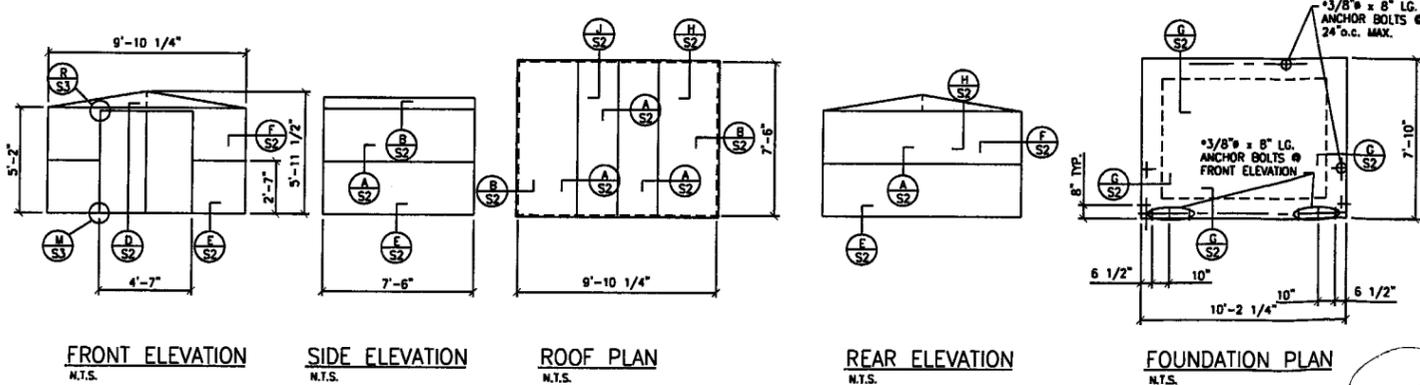
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8' x 6' BUILDING N.T.S.



FRONT ELEVATION N.T.S. SIDE ELEVATION N.T.S. ROOF PLAN N.T.S. REAR ELEVATION N.T.S. FOUNDATION PLAN N.T.S.

8' x 8' BUILDING N.T.S.



FRONT ELEVATION N.T.S. SIDE ELEVATION N.T.S. ROOF PLAN N.T.S. REAR ELEVATION N.T.S. FOUNDATION PLAN N.T.S.

10' x 8' BUILDING N.T.S.

DESIGN CRITERIA:

THE DESIGN SHOWN ON THESE DRAWINGS MEET THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE.

GRAVITY LOADS:

DEAD LOAD: AS CALCULATED PER MEMBER
LIVE LOAD: 15 PSF

WIND LOADS:

BASIC WIND SPEED: 75 MPH
WIND LOAD IMPORTANCE FACTOR: $I_w = 1.0$
WIND EXPOSURE: C
NOTE: PER SECTION 1609.1.4 STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 S.F. OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WINDBORNE DEBRIS IMPACT STANDARDS OF THE 2004 FLORIDA BUILDING CODE.

MATERIAL SPECIFICATIONS:

PANELS: ASTM A625-76, $F_y=50$ KSI
CHANNELS & OTHER MEMBERS: ASTM A527-80, $F_y=55$ KSI
BOLTS & SCREWS: ASTM A1018, $F_y=30$ KSI
ANCHOR BOLTS: ASTM A307, $F_y=33$ KSI
REINFORCING STEEL: ASTM A615-40, GRADE 40
WIRE MESH: ASTM A-185
CONCRETE: 2,500 PSI COMPRESSIVE STRENGTH @ 28 DAYS

ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 1,000 PSF @ A DEPTH OF 1'-0"

* ALTERNATE ANCHOR: HILTI KWIK BOLT II,
3/8" x 5" LG CONCRETE ANCHOR
w/ 2 1/2" EMBEDMENT, METRO DADE COUNTY
ACCEPTANCE

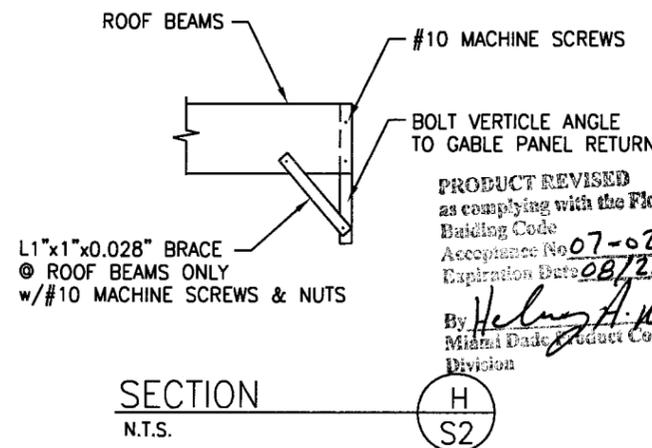
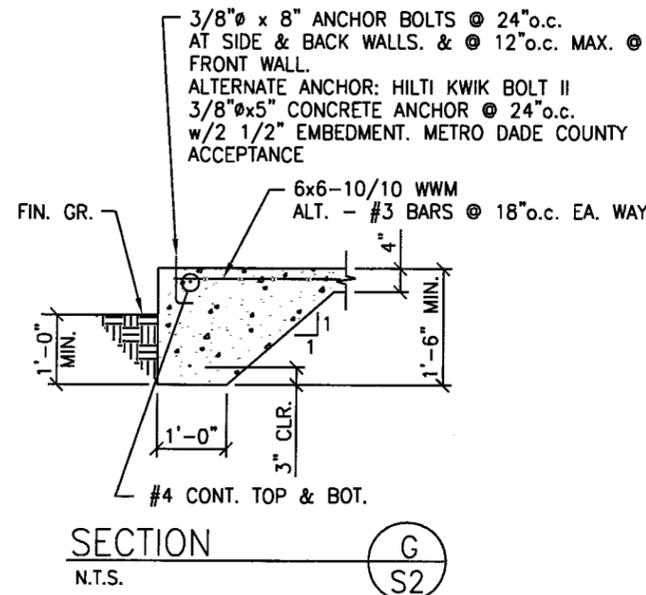
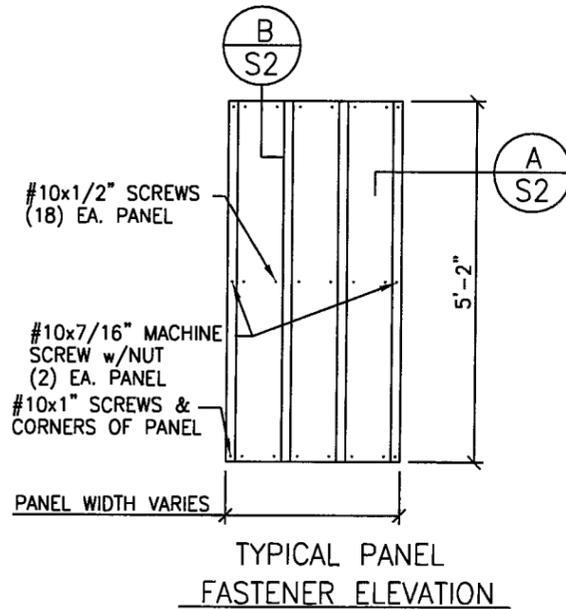
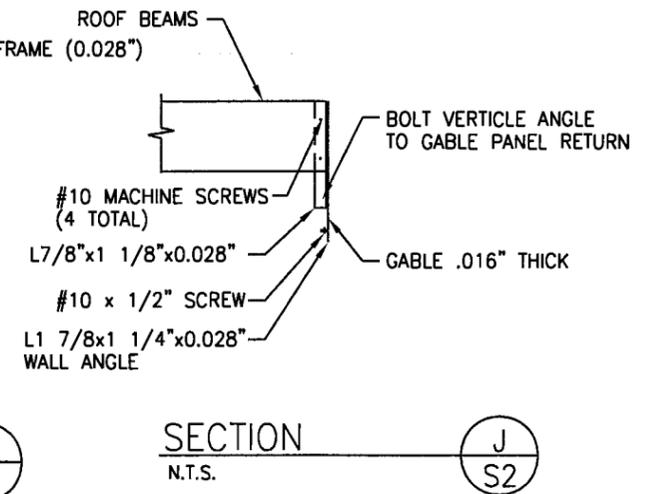
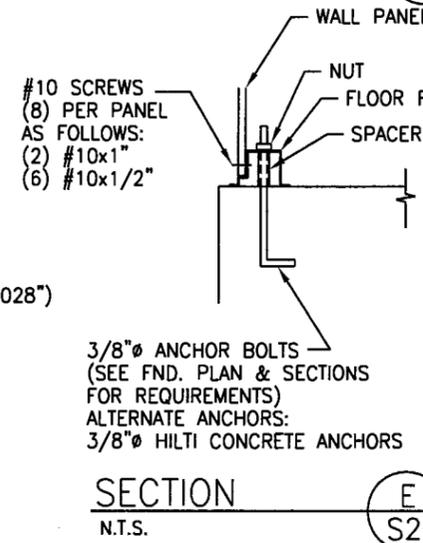
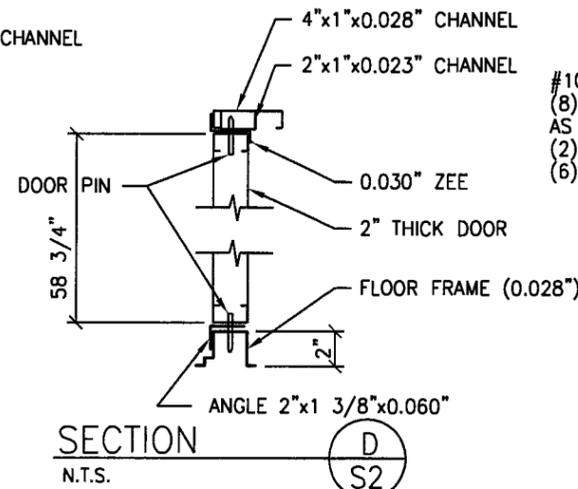
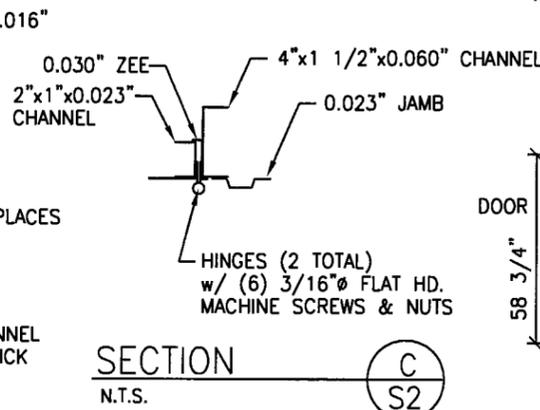
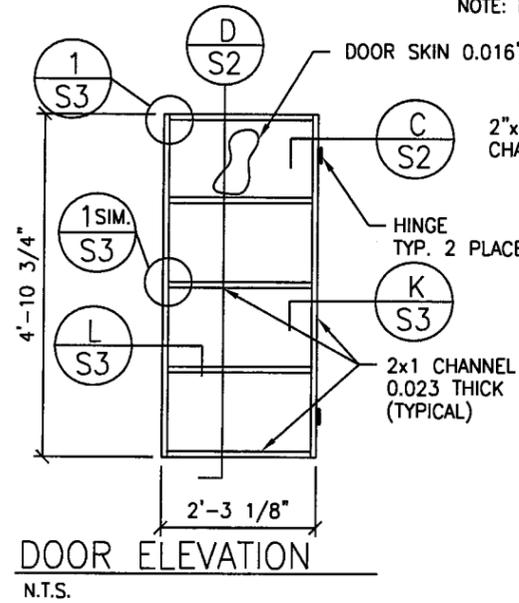
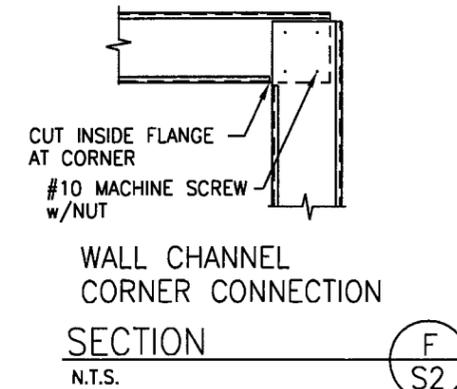
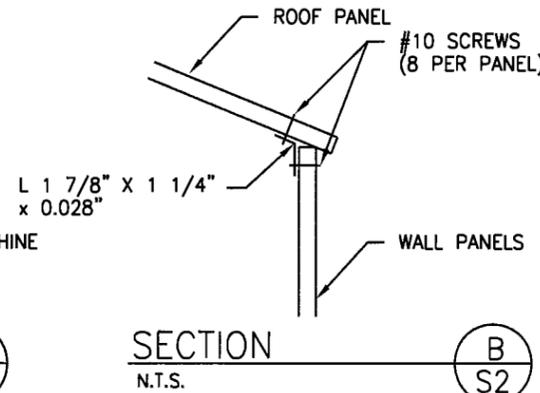
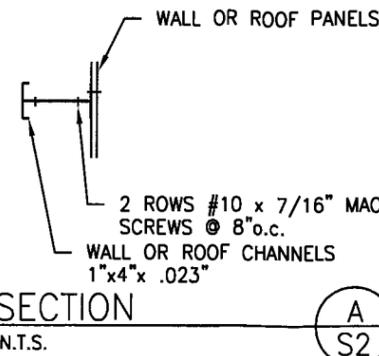
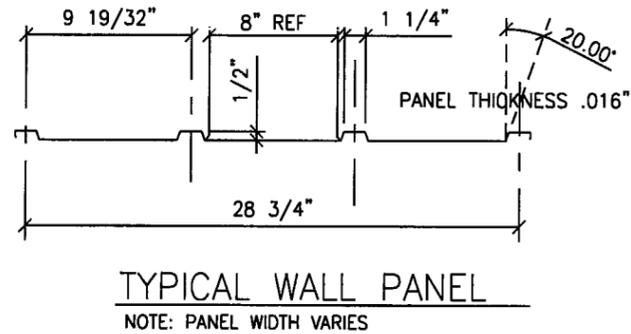
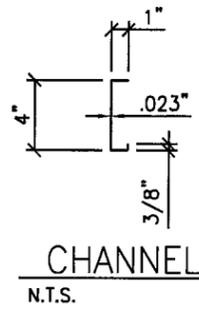
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0214-15
Expiration Date 08/24/2012
By *Helmut A. Hahn*
Miami Dade Product Control
Division

McGINNIS & ASSOCIATES
CONSULTING ENGINEERS, INC.
1110 WESTMARK DRIVE
ST. LOUIS, MISSOURI 63131
314-469-6460 12909

[Handwritten Signature]
8/10/07

No	DATE	REVISION	BY
SHEET TITLE: PLANS & ELEVATIONS			SCALE: NONE
PROJECT: 6'x5', 8'x6', 8'x8' & 10'x8' UTILITY SHEDS			DRAWN BY: JMH DATE: 8/1/06
ARROW GROUP INDUSTRIES 1101 N. 4TH STREET BREESE, IL 62230 (618) 526-4546			DRAWING # S1

RECEIVED
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 ADMINISTRATIVE DIVISION

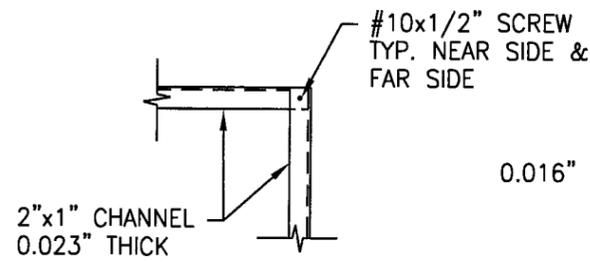


PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0214-15
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By *Helmut A. Helber*
Miami Dade Product Control
Division

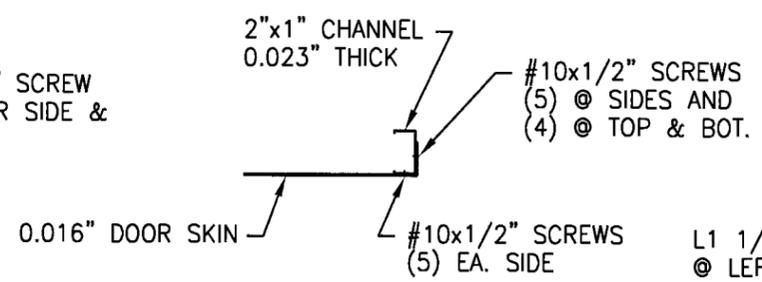
McGINNIS & ASSOCIATES
CONSULTING ENGINEERS, INC.
1110 WESTMARK DRIVE
ST. LOUIS, MISSOURI 63131
314-469-6460 12909

No	DATE	REVISION	BY
SHEET TITLE: SECTIONS & DETAILS			SCALE: NONE
PROJECT: 6'x5', 8'x6', 8'x8' & 10'x8' UTILITY SHEDS			DRAWN BY: JMH
			DATE: 8/1/06
ARROW GROUP INDUSTRIES 1101 N. 4TH STREET BREESE, IL 62230 (618) 526-4546			DRAWING # S2

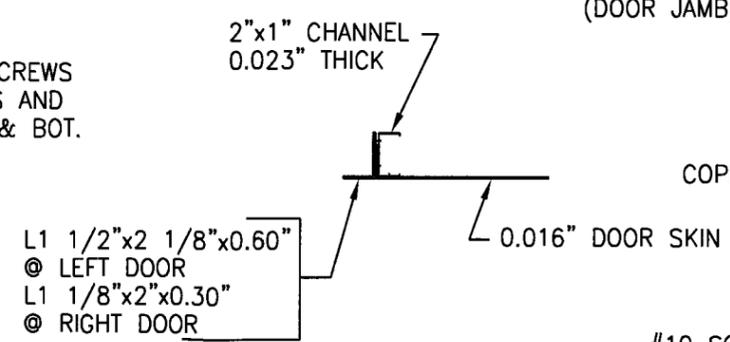
Helmut A. Helber
8/1/06



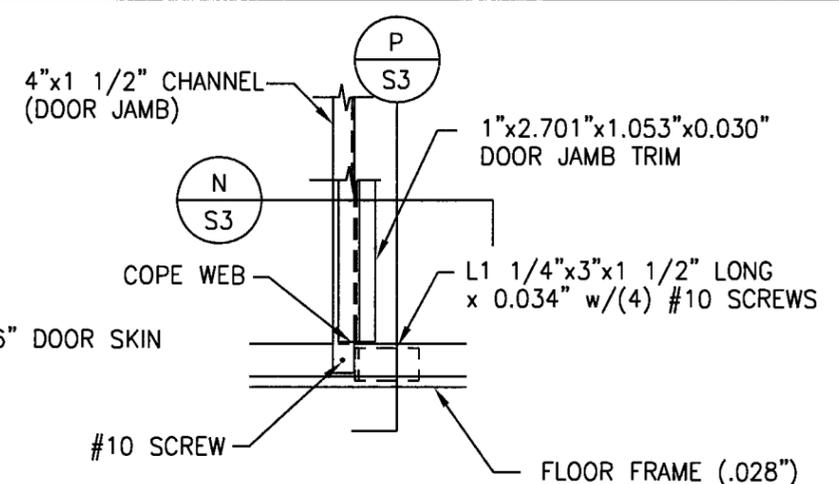
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N.T.S.



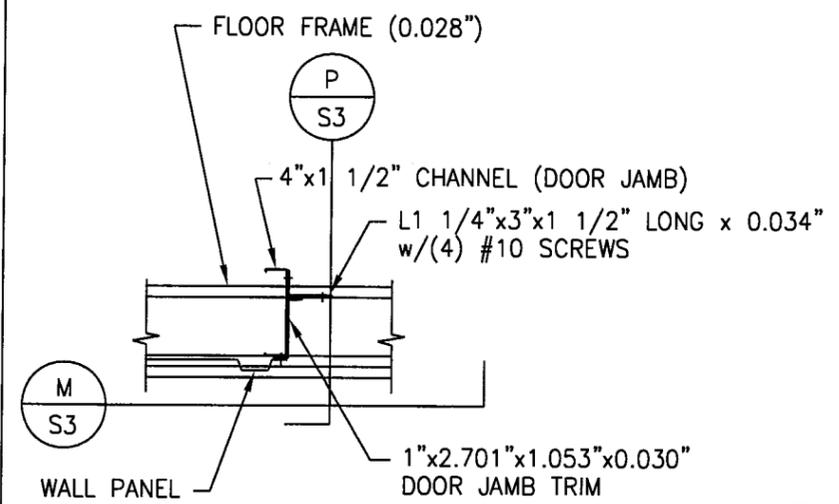
SECTION K
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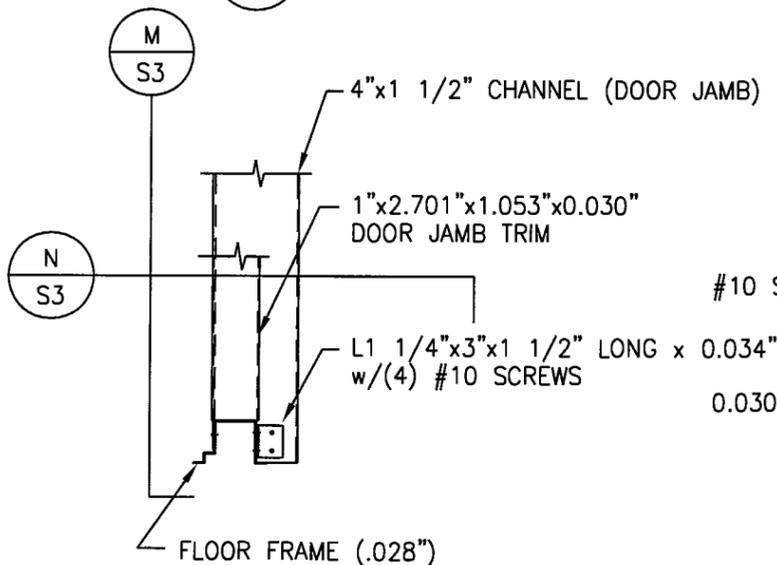
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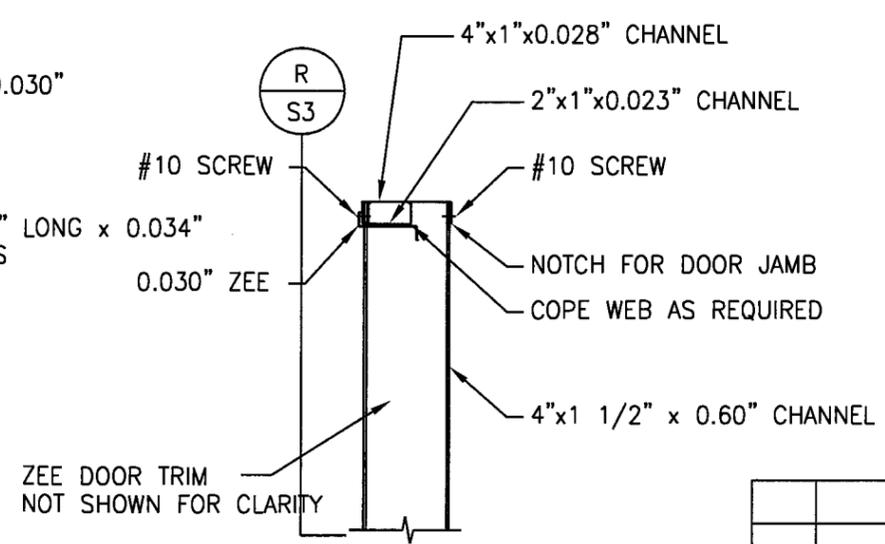
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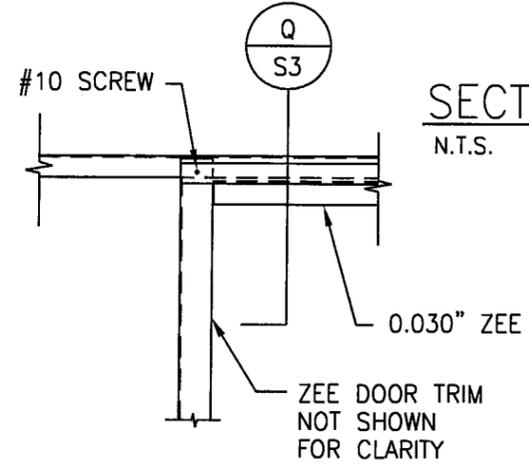
SECTION N
N.T.S.



SECTION P
N.T.S.



SECTION Q
N.T.S.



SECTION R
N.T.S.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0214.15
Expiration Date 08/24/2012
By: *Heather H. Miller*
Missouri State Product Control
Division

No.	DATE	REVISION	BY
SHEET TITLE: SECTIONS & DETAILS			SCALE: NONE
PROJECT: 6'x5', 8'x6', 8'x8' & 10'x8' UTILITY SHEDS			DRAWN BY: JMH
			DATE: 8/1/06
ARROW GROUP INDUSTRIES 1101 N. 4TH STREET BREESE, IL 62230 (618) 526-4546			DRAWING # S3

McGINNIS & ASSOCIATES
CONSULTING ENGINEERS, INC.
1110 WESTMARK DRIVE
ST. LOUIS, MISSOURI 63131
314-469-6460 12909

[Signature]
8/10/07