

VICTORY AWNING CO. CONTACT: CORY SAUTTER 1821 E. INDIAN SCHOOL RD. PHOENIX, AZ 85016



1850 NORTH CENTRAL AVENUE SUITE 515

PHOENIX, AZ 85004 PH. 602-254-7444 FX. 602 - 258 - 1529

DRAWN BY: J.J. / B.R.

CHECKED BY: D.P.L.

DATE: 3/5/07

PROJECT: 071101

GENERAL NOTES

2

3

A. PROJECT INFORMATION:

1. NAME: ROMEO - NEW AWNING

20707 NORTH PIMA ROAD, #120

SCOTTSDALE, AZ

CONTRACTOR:

VICTORY AWNING CO. (CONTACT: CORY SAUTTER)

1821 EAST INDIAN SCHOOL ROAD

PHOENIX, AZ 85016

DESCRIPTION

INSTALL ONE (1) FABRIC AWNING TO THE EXISTING

STRUCTURE USING MECHANICAL FASTENERS

B. DESIGN CRITERIA

BUILDING CODE: THIS STRUCTURE IS DESIGNED IN ACCORDANCE TO THE 2003 INTERNATIONAL BUILDING CODE 1.

WITH ORDINANCE/AMENDMENTS BY THE CITY OF SCOTTSDALE, ARIZONA.

STRUCTURAL LOADS 2

a DEAD

NEGLEGIBLE

b LIVE c. WIND- AWNING = 5 psf BASIC WIND SPEED FASTEST THREE

SECOND MILE V3S = 90 mph

IMPORTANCE FACTOR Iw = 1.00

EXPOSURE C (ANALYSIS METHOD SIMPLIFIED)

NET UPLIFT Pul = 23 psf

C. STEEL:

ALL STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH 1.

THE AISC, "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING", (9 TH. EDITION). ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FACILITY.

2 ALL STEEL FABRICATED ITEMS SHALL SATISFY THE FOLLOWING ASTM SPECIFICATIONS:

STRUCTURAL TUBING (HSS)

ASTM

Fy (ksi)

PLATES

A513 A36

30 36

ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF A.W.S. D1.1 USING E70XX 3.

ELECTRODES

BOLT HOLES SHALL BE PUNCHED OR DRILLED AND NOT BE GREATER THAN 1/16" IN DIAMETER THAN THE

SPECIFIED BOLT. ALL HOLES SHALL HAVE SMOOTH SURFACES. FIELD CUTTING OF HOLES IS NOT PERMITTED. ALL SHOP OR FIELD WELDING OF STRUCTURAL STEEL, STEEL REINFORCEMENT, AND LIGHT GAUGE STEEL 5

SHALL BE COMPLETED BY AN A.W.S. CERTIFIED WELDER.

D. GENERAL CONSTRUCTION:

4.

ALL DESIGN, DRAWINGS, AND DETAIL REPRESENT COMPLETE WORK IN PLACE.

THE ENGINEER SHALL HAVE NO CONTROL OR CHANGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS BY THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OTHER PORTION OF THE WORK

OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN CONFORMANCE WITH THE CONTRACT

DOCUMENTS, OR INSTRUCTIONS OF THE OWNER OR OWNER'S AGENT WHEN A MATERIAL SYSTEM IS NOTED, ALL PARTS AND MATERIALS REQUIRED TO COMPLETE THE SYSTEM SHALL 3

BE FURNISHED AND INSTALLED PERSUANT OF THE MANUFACTURER'S INSTRUCTIONS.

THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS IN FIELD AND NOTIFY ENGINEER

IF DISCREPANCY OCCURS PRIOR TO COMMENCEMENT OF RELATED WORK. WORK SHALL BE DONE IN

ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

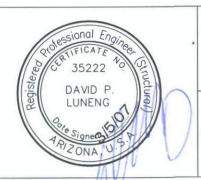
ALL WORK IS TO BE PERFORMED TO THE CODE BY LICENSED CONTRACTORS PERFORMING WORK IN THEIR SPECIFIC TRADES ONLY. ALL AND ANY ALTERATIONS TO THIS DOCUMENT SHALL BE APPROVED BY THE

ENGINEER PRIOR TO ANY CHANGES BEING PERFORMED.

6 THE CONTRACTOR OR SUB-CONTRACTOR SHALL BE RESPOSIBLE FOR ALL UNAPPROVED MODIFICATIONS.



REFER TO NEXT PAGE FOR SCOPE OF WORK



VICTORY AWNING CO. CONTACT: CORY SAUTTER 1821 E. INDIAN SCHOOL RD. PHOENIX, AZ 85016



1850 NORTH CENTRAL AVENUE SUITE 515 PHOENIX, AZ 85004 PH. 602-254-7444 FX. 602-258-1529

DRAWN BY: J.J. / B.R.

CHECKED BY: D.P.L.

DATE: 3/5/07

PROJECT: 071101









SCHEMATIC - SCOPE OF WORK

N.T.S.



VICTORY AWNING CO. CONTACT: CORY SAUTTER 1821 E. INDIAN SCHOOL RD. PHOENIX, AZ 85016



1850 NORTH CENTRAL AVENUE SUITE 515 PHOENIX, AZ 85004 PH. 602-254-7444 FX. 602 - 258 - 1529

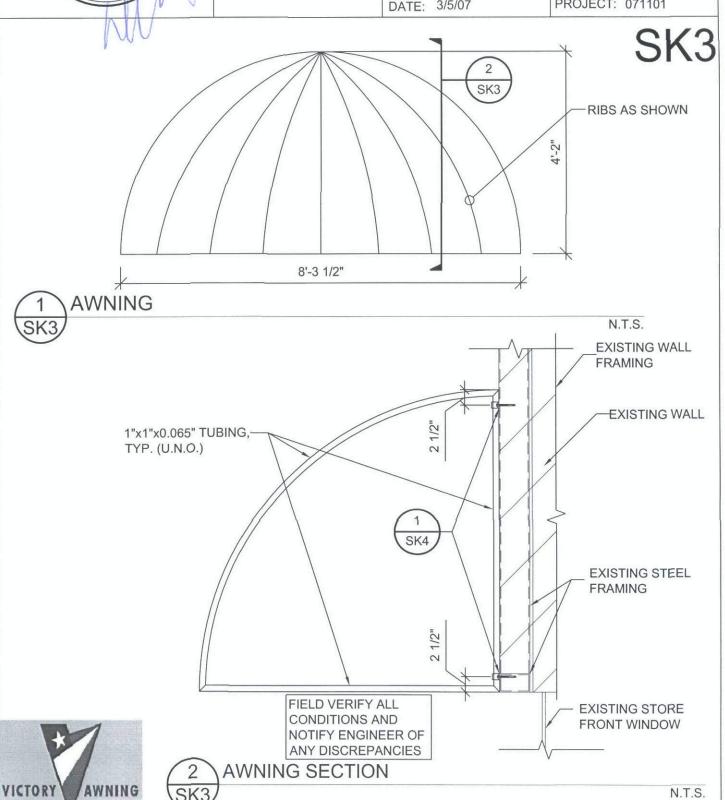
DRAWN BY: J.J. / B.R.

CHECKED BY: D.P.L.

DATE: 3/5/07

PROJECT: 071101

3/4





VICTORY AWNING CO. CONTACT: CORY SAUTTER 1821 E. INDIAN SCHOOL RD. PHOENIX, AZ 85016



1850 NORTH CENTRAL AVENUE SUITE 515 PHOENIX, AZ 85004 PH. 602-254-7444 FX. 602-258-1529

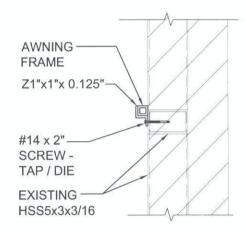
DRAWN BY: J.J. / B.R.

CHECKED BY: D.P.L.

DATE: 3/5/07

PROJECT: 071101

SK4





Z-CLIP FRAME ATTACHMENT

N.T.S.



ROMEO

20707 NORTH PIMA ROAD, SUITE 120 SCOTTSDALE, ARIZONA 85255



35222 STRUCTURAL DESIGN CALCULATIONS FOR ONE AWNING

BY:

STRUKTUR STUDIO 1850 NORTH CENTRAL AVENUE SUITE 515 PHOENIX, AZ 85004

STRUKTUR STUDIO JOB NO. 071101

MARCH 6, 2007

DESIGN CRITERIA

LOCATION:

' ROMEO

20707 NORTH PIMA ROAD, SUITE 120 SCOTTSDALE, ARIZONA 85255

BUILDING CODE:

2003 INTERNATIONAL BUILDING CODE

WITH AMENDMENTS PER THE CITY OF SCOTTSDALE, ARIZONA

SCOPE OF WORK:

DESIGN ONE AWNING FRAME TYPES AND ATTACHMENT

TO THE EXISTING STRUCTURE

DYNAMIC LOADING:

WIND:

WIND SPEED (V3S)

90 mph 3 SECOND GUST

IMPORTANCE FACTOR

1.0

- FLAT

EXPOSURE

C

WIND LOAD: ZONE 4 ON WALL

THE NEW AWNINGS ARE PROTECTED UNDER 15 FEET IN ZONE 4 WALL

USE ZONE 1 LIFT: Pup =14.6 psf x 1.21x 1.3 = 23 psf

OUTWARD PRESSURE: Pout = 18.3 psf

SEISMIC:

DOES NOT GOVERN, BY INSPECTION

GRAVITY LOADING:

AWNING MEMBRANE

0.5

FRAMING

2

2.5 psf

LIVE:

AWNING

5 psf ←

MATERIALS

AWNING FRAME STEEL:

ASTM A513; Fy = 30 ksi

FOR FRAME 1

SECTION HEIGHT =

1.000 inches

WIDTH =

1.000 inches

WALL THICKNESS

0.065 inches

ix = ly =

0.036 inches^4

A ≃

0.243 inches^2

r =

0.383 inches

EXISTING STRUCTURE:

HSS5X3X3/16 STEEL VERTS.

CONNECTION OF THE AWNING TO THE STRUCTURE April = 4.167/2 XTT/2 = 27.3/12 PULLOUT FERCE = (27.3/1/2/23 + 27.3/2 18.7 psr) (0.4×42') (3) (4.2') (3) (0.4×2') =150 # , , CHECK HSS5x3x3/16 BOD: MOMENT= 150×3×6× 42 4-2 = 945#9 SX45554343/16 = 3.62 in3 16= 3.1ksi 8'-3 1/2 6A151 A5.1.3) **AWNING** N.T.S. Te= 216# OK(+180) TRY # 14 SCREW: CSAY (46A. MATERIAL) USE # 14 SCREW IN 1/8" THK Z PLATE/CLIP

THE HSSS+3×3/16 APPRIARS ADEQUATE FOR THE MINOR, IMPOSED WASOS

2/2