



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE TO PROCEED

Permit Number: ST-1384

Permittee:

Permit Expires: April 19, 2004

Lido Beach Club Association, Inc.
c/o Brenda S. Callahan, Manager
1212 Ben Franklin Drive
Sarasota, Florida 34236

You are hereby granted final authorization to proceed with the construction or activities authorized by the permit number referenced above. Authorized work must conform with the detailed project description, approved plans, and all conditions including preconstruction requirements included in the final order. A brief description of the authorized work follows.

Project Description: Construction of a carport replacement.

Project Location: Between approximately 50 feet and 100 feet south of the Department of Environmental Protection's reference monument R-40, in Sarasota County.

Project Address: 1212 Ben Franklin Drive, Sarasota.

Special Instructions: Preconstruction conference required.

Questions regarding the permit or this notice should be directed to the undersigned at:

May 17/2001

Date of Notice S. Muthuswamy, Ph.D., Engineer

Office of Beaches and Coastal Systems
3900 Commonwealth Blvd. - M.S. 310
Tallahassee, Florida 32399-3000
Telephone (850) 488-3180

SM/kbc

cc: Permit File
Permit Information Center
Steve West, Field Inspector
City of Sarasota Building Official

Post Conspicuously on the Site

4-#10x3/4" LG SCREW w/
3/4" WASHER PER 12" PAN
WIDTH
0.034" PAN
2 1/2" W-PAN
MIN SLOPE 1/4" PER FT.

3-1/4" x 4 1/2" BOLT

2x8 SMB

2" x 9" SEE
TABLES FOR

4x4 125
POST

8'0"

1'8" x 1'8" x 2' CONCRETE

2500 PSI

1-#5 REBAR

2'0"

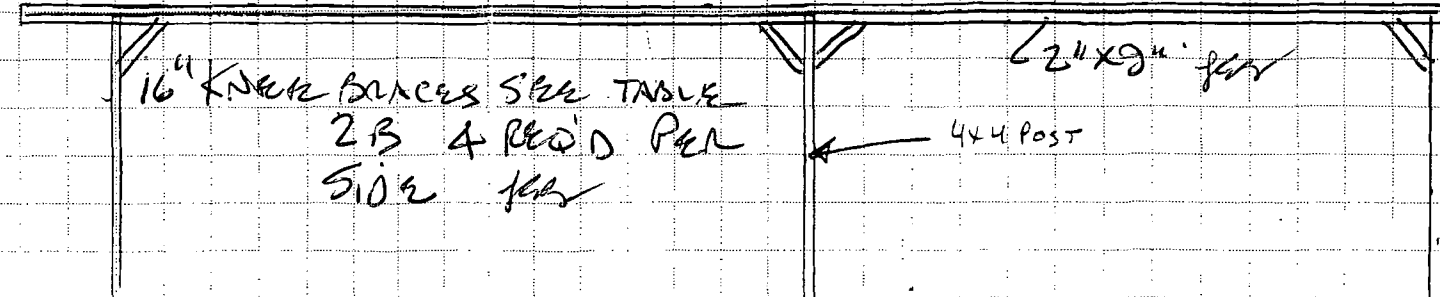
1'8"

POST & BEAM DETAIL
SCALE - 1/2" = 1'0"

**Gingerich
Glass & Aluminum Inc.**

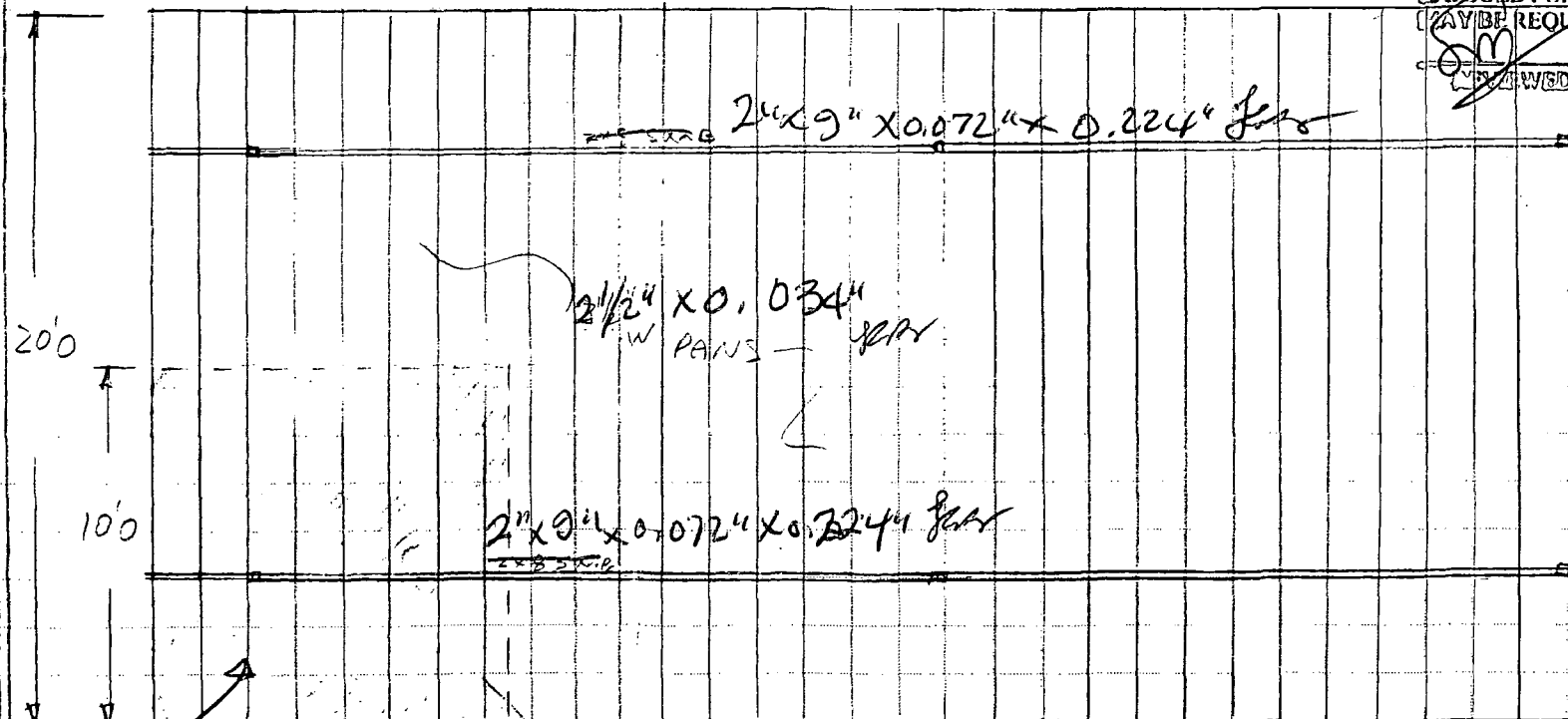
KARL K. KANDEL
371-7295
377-4121 FAX

237 Interstate Blvd.
Sarasota, Florida 34240



NORTH ELEVATION
SCALE 3/16" = 1'0"

40'0"



PLAN VIEW
SCALE 3/16" = 1'0"

10'0"

SHADED AREA
SQ. FT. FOR
ISOLATED FOOTING

I HEREBY CERTIFY THAT I HAVE REVIEWED
THESE PLANS AND THEY COMPLY WITH ALL
REQUIREMENTS OF THE FLORIDA BUILDING
CODE 1997 EDITION, CHAPTER 7-85
WITH RESPECT TO 110 MPH WIND LOAD
MAY 07 2001
DATE BY LAWRENCE E. BENNETT, P.E.
PE # 10344

RECEIVED

MAY 15 2001

OFFICE OF BEACHES
& COASTAL SYSTEMS

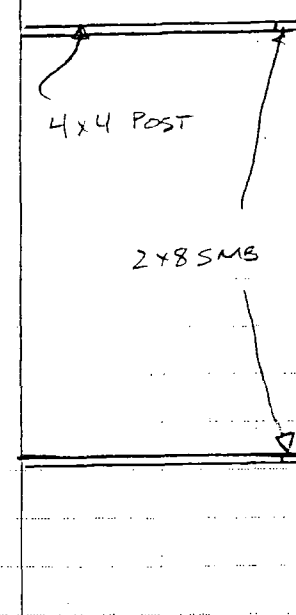
APPROVED PLAN AS PERMITTED
BY OFFICE OF BEACHES
AND COASTAL SYSTEMS
FLORIDA DEPT. OF
ENVIRONMENTAL PROTECTION

APPROVED CONSTRUCTION AND ANY OTHER AUTHORIZED
ACTIVITIES MUST COMPLY WITH ALL CONDITIONS OF THE
PERMIT. CONSTRUCTION AND ACTIVITIES ARE STRICTLY
LIMITED TO THOSE BOTH SHOWN ON THE APPROVED PLANS
AND LISTED IN THE PROJECT DESCRIPTION. THIS PERMIT
IS ISSUED PURSUANT TO LOCAL ORDINANCES, AND OTHER PERMITS
(IF ANY) REQUIRED.

APPROVED
DATE

MAY 16 2001

ST-1384
PERMIT NO.

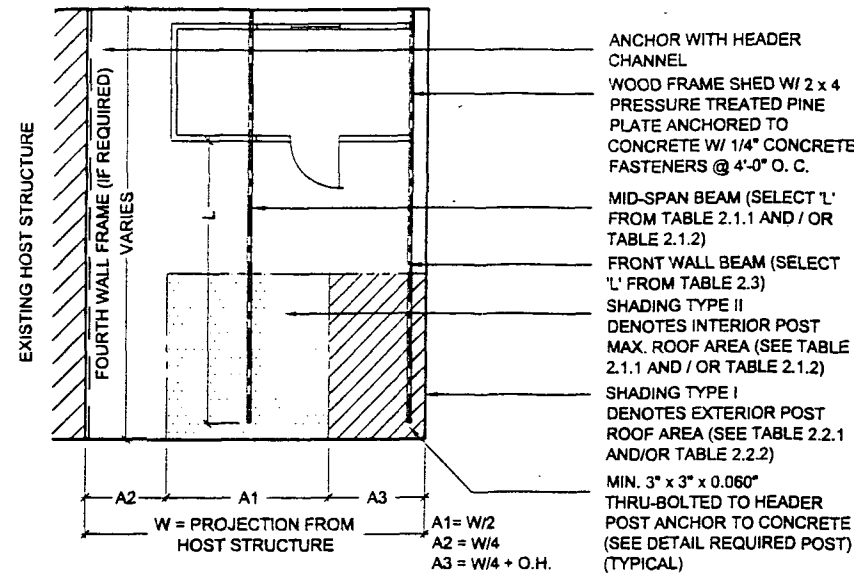


ELEVATION
SCALE 3/16" = 1'0"

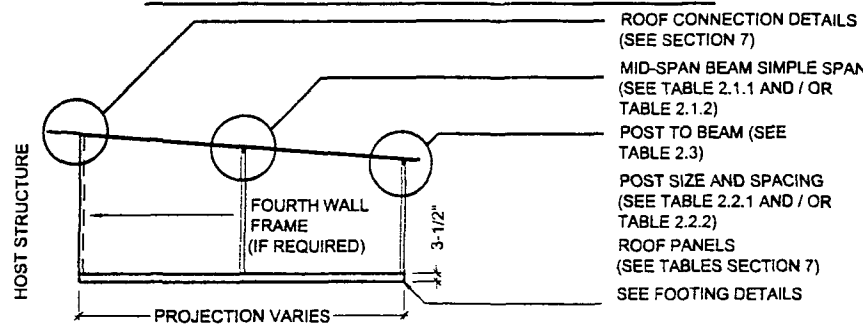
DUNN & DENHAM CONST.
JOB LIDO BEACH CLUB
1212 BEN FRANKLIN DRIVE
SARASOTA FL
ST-1384

General Notes and Specifications:

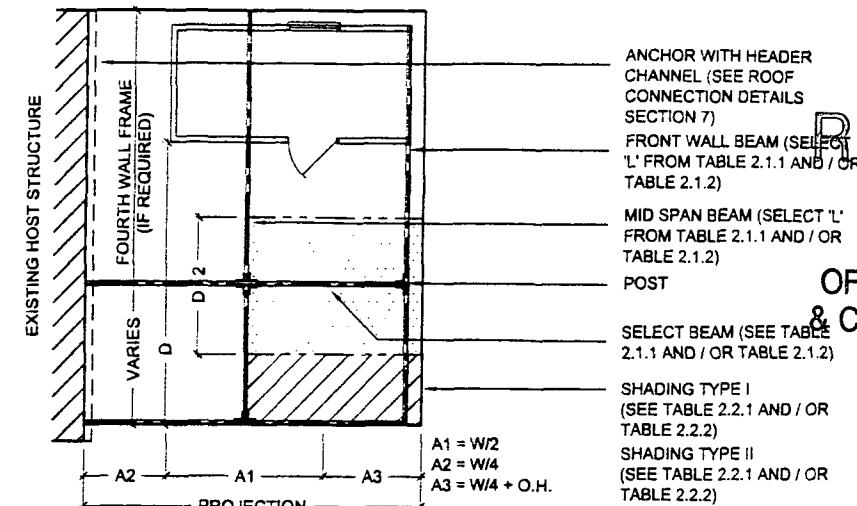
1. Certain of the following structures are designed to be married to block and wood frame structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
2. If there is a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
3. The following rules apply to attachments involving mobile and manufactured homes:
 - a. Structures to be placed adjacent to a mobile / manufactured home built prior to 1994 shall use "fourth wall construction" or shall provide detailed plans of the mobile / manufactured home along with addition plans for site specific review and seal by the engineer. This applies to all utility sheds, carports, and / or other structures to be attached.
 - b. Fourth wall construction means the addition shall be free standing with only the roof flashing of the two units being attached. The most common "fourth wall construction" is a post & beam frame adjacent to the mobile / manufactured home. The same span tables can be used as for the front wall beam. All fourth wall frames shall have knee braces on both fourth wall frame and outer wall frame.
 - c. For mobile / manufactured homes built after 1994, structures may be attached, provided the project follows the plan provided in this manual. The contractor / owner shall provide verification of the structural system used to build the host structure.
 - d. Any attachment that extends more than 20' from a mobile / manufactured home wall shall require site specific engineering. The 20' is measured from the mobile / manufactured home to the outside of the beam wall and does not include overhang.
4. Section 7 contains span tables and the attachment details of pans and composite panels.
5. When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
6. SOME LOCAL BUILDING DEPARTMENTS, SUCH AS PINELLAS COUNTY, MAY REQUIRE MINIMUM WALL THICKNESS OF EXTRUSIONS. CHECK WITH YOUR LOCAL BUILDING DEPARTMENT BEFORE PLANNING YOUR PROJECT.



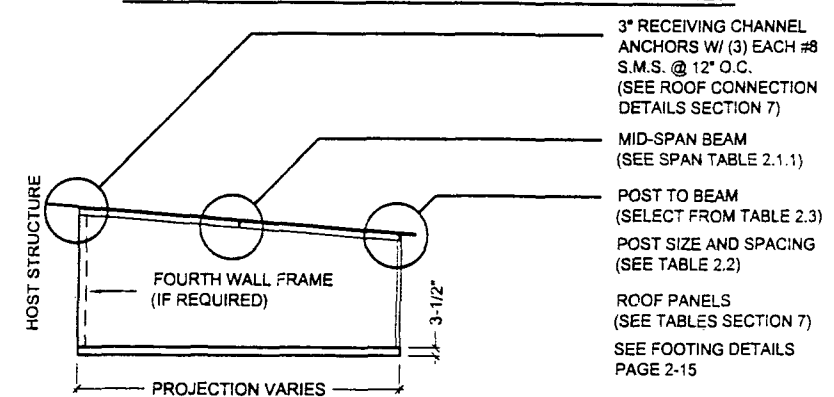
DOUBLE CARPORT WITH CENTER POST - PLAN VIEW



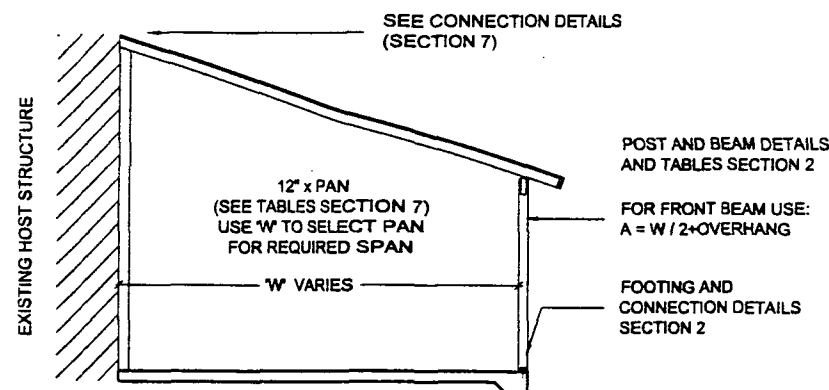
DOUBLE CARPORT WITH CENTER POST - ELEVATION VIEW



DOUBLE CARPORT WITHOUT CENTER POST - PLAN VIEW



DOUBLE CARPORT WITHOUT CENTER POST - ELEVATION VIEW

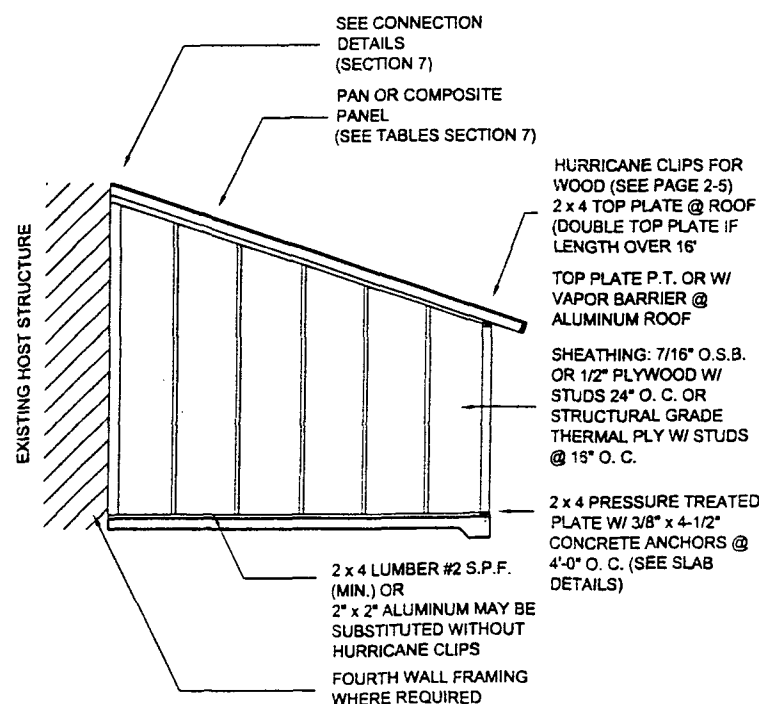


CARPORT WALL SECTION

SHED IS FRAMED WITH FOURTH WALL (IF REQUIRED) OR ATTACHED TO HOST, MAXIMUM FLOOR AREA 200 SQ. FT., IF FLOOR AREA IS GREATER THAN 200 SQ. FT. USE SECTION 4, ATTACH SHED OR ROOM WALL TO HOST STRUCTURE W/ 1/4" x 3-1/4" TAPCONS @ 16" O.C. FOR MASONRY OR #16d COMMON @ 16" O.C. OR #10 x 3-1/2" FOR WOOD OR #10 x 2-1/2" S.M.S. FOR 1" x 2" ALUMINUM OR #10 x 3-1/2" S.M.S. FOR 2 x 2 ALUMINUM

1. SHEDS AND UTILITY ROOMS BUILT UNDER SECTION 2 SPECIFICATIONS SHALL BE LIMITED TO 16 FT. IN ROOF SPAN DIRECTION AND 200 SQ. FT. MAXIMUM AREA.
2. ALL WOOD FRAMING AND SHEATHING CONNECTIONS SHALL BE IN COMPLIANCE WITH STANDARD BUILDING CODE 1999 CHAPTER 23, TABLE 2306.1 OR AS NOTED BELOW.

CONNECTION	FASTENER	NUMBER / SPACING
WALL SHEATHING 1/2" OR LESS	#6 COMMON	8" O.C. EDGES AND 12" O.C. FIELD
TOP OR SOLE PLATE TO STUD		
A. END NAIL	#16 COMMON	2
B. TOE NAIL	#8 COMMON	2



UTILITY SHED WALL SECTION

PURSUANT TO PROVISIONS OF THE FLORIDA DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES DIVISION OF MOTOR VEHICLES RULE 15C-2, THE SPAN TABLES, CONNECTION DETAILS, ANCHORING AND OTHER SPECIFICATIONS ARE DESIGNED TO BE MARRIED TO CONVENTIONALLY CONSTRUCTED HOMES AND / OR MANUFACTURED HOMES AND MOBILE HOMES CONSTRUCTED AFTER 1984.

JOB NAME: _____
ADDRESS: _____

DRAWING FOR ONE PERMIT ONLY

1999

THE DESIGNS AND SPANS SHOWN ON THESE DRAWINGS ARE BASED ON THE LOAD REQUIREMENTS FOR THE FOLLOWING CODES:

- 1) STANDARD BUILDING CODE 1997, CHAPTER 18 INCLUDING SSTO 10-96
- 2) BOCA NATIONAL BUILDING CODE 1996
- 3) TEXAS DEPARTMENT OF INSURANCE WINDSTORM RESISTANT CONSTRUCTION 1998

50 YR SNOW LOAD	DESIGN SNOW LOAD	WIND LOAD / BUILDING TYPE
5 - 25 # / SQ. FT.	3 - 15 # / SQ. FT.	95 MPH / OPEN*
26-30 # / SQ. FT.	61-70 # / SQ. FT.	100 MPH / OPEN*
31-35 # / SQ. FT.	61-70 # / SQ. FT.	120 MPH / OPEN*
36-60 # / SQ. FT.	61-70 # / SQ. FT.	110 MPH / ENCLOSED
61-70 # / SQ. FT.	61-70 # / SQ. FT.	120 MPH / ENCLOSED

SELECT ROOF OR WALL MEMBERS FROM APPROPRIATE TABLES

TEXAS CONVERSION TABLE:

WIND ZONE	CONVERSION FACTORS	
	ROOF	WALL
SEAWARD OF I.C.W. *	0.67	1.00
INLAND OF I.C.W. *	0.74	1.00

* INTERCOASTAL WATERWAY

NOTE:
WIND LOAD CONVERSION:
SPANS AND HEIGHTS FROM TABLES ARE BASED ON 120 M.P.H. WIND LOAD. TO CONVERT TO 140 M.P.H. WIND LOAD MULTIPLY SPANS AND HEIGHTS BY 0.85

ST-1384

CARPORTS, PATIO COVERS & SHEDS
ALUMINUM STRUCTURES MANUAL
2000 EDITION
SECTION 2 DETAILS

Lawrence E. Bennett, P.E.
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 4368 SOUTH DAYTONA, FL 32121
TELEPHONE (904) 767-4774
FAX (904) 767-6556

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MAY 15 2001

OFFICE OF BEACHES
& COASTAL SYSTEMS

SHEET

1

OF

8

RECEIVED

MAY 15 2001

OFFICE OF BEACHES & COASTAL SYSTEMS

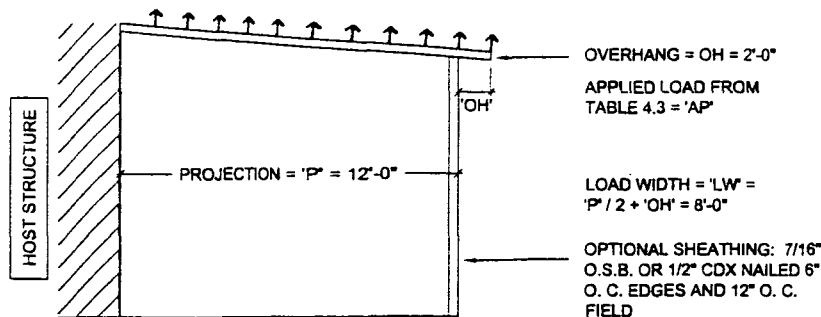
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OF 8



WALL UPLIFT EXAMPLE

CALCULATE UPLIFT 'U' IN # / L.F. FOR 102 M.P.H. ZONE = 'AP' x 'LW'
'AP' = 25 # / SQ. FT. 'LW' = 8'-0"
'U' = 25 # / SQ. FT. x 8' = 200 # / L.F.

REQUIRED ANCHOR SPACING CAN BE FOUND BY DIVIDING ANCHOR CAPACITY BY THE UPLIFT VALUE PREVIOUSLY DETERMINED.
EXAMPLE: FOR AN H-2.5 CAPACITY = 415 # / 200 # / L.F. = SPACING OF 2.075 FT.
THUS, STUDS AT TYPICAL SPACINGS RECEIVE ANCHORS AS FOLLOWS

STUD SPACING	H 2.5 SPACING
12" O.C.	ALTERNATING STUDS
16" O.C.	EACH STUD
24" O.C.	EACH STUD

ALLOWABLE UPLIFT PER ANCHOR

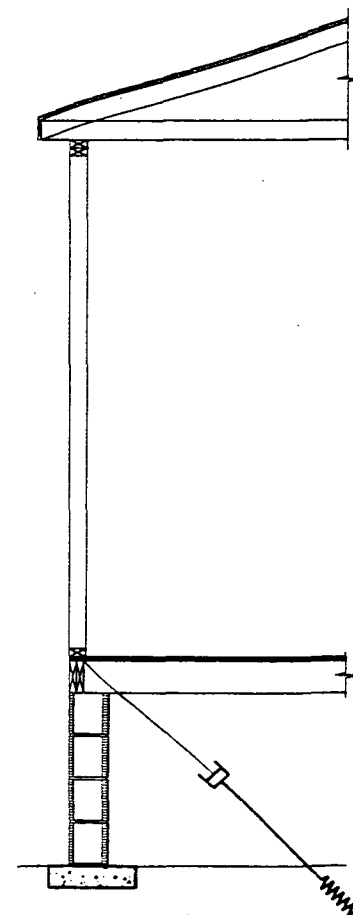
SIMPSON	UPLIFT RATING
H 2.5	415#
H 3.0	455#
H 5.0	455#
*SP 1/2	585#

ABOVE EXAMPLE CAN BE USED TO CALCULATE UPLIFT AND ANCHOR SPACING FOR ANY APPLIED LOAD OR WIND LOAD

* SP 1/2 ARE USED FOR DOUBLE TOP PLATE

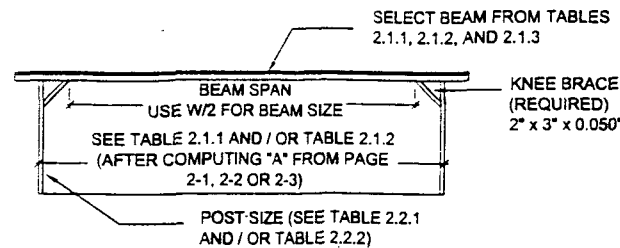
IF COIL STRAP, CONTINUOUS FROM TRUSS RAFTER TO PERIMETER JOIST, IS NOT PROVIDED BY THE MANUFACTURER REMOVE VINYL SIDING AND SOFFIT ON THE WALL AND INSTALL SIMPSON CS-16 COIL STRAP FROM TRUSS / RAFTER TO BOTTOM OF PERIMETER JOIST @ EACH TRUSS / RAFTER. NAIL STRAP W/ 16d COMMON @ TRUSS RAFTER AND PERIMETER JOIST. SCREW COIL STRAP TO SHEATHING W/ #8 x 1" DECK SCREWS @ 16" O.C. VERTICALLY. REPLACE VINYL SIDING.

PROVIDE NEW 4", 6" OR 8" x 16" CMU PIER AND SOLID FOUNDATION BLOCK @ 5'-0" MAX. O.C. ALONG ATTACHMENT WALL

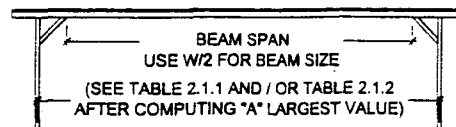


TYPICAL WALL SECTION FOR ATTACHMENT TO MOBILE / MANUFACTURED HOME

INSTALL NEW AUGER ANCHOR @ EACH NEW PIER. INSTALL 1/2" CARRIAGE BOLT THRU PERIMETER JOIST AND STRAP TO NEW AUGER ANCHOR.



SIDE VIEW FOURTH WALL FRAME



SIDE VIEW SINGLE OR DOUBLE BAY CARPORT

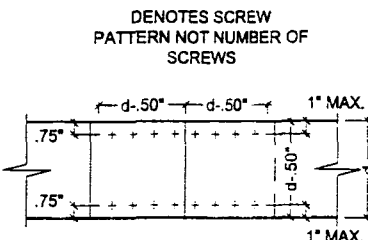
SPLICE TO BE LOCATED 1/4 TO 1/3 BEAM SPAN AND STAGGERED ON EACH SIDE OF SELF MATING BEAM

SELECT FASTENERS FROM TABLE 1.6

d = HEIGHT OF BEAM

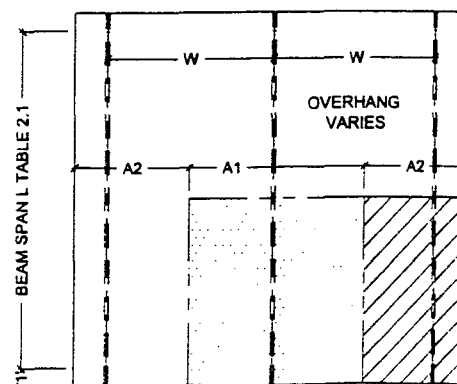
BEAM SPLICE SHALL BE MINIMUM d - .50"

HEIGHT 2 x (d - .50") LENGTH



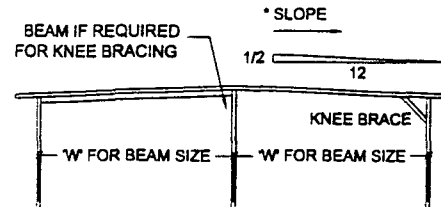
TYPICAL BEAM SPLICE DETAIL

UPRIGHT SIZE	MAX BEAM SIZE	KNEE BRACE
2" x 2" x 0.036"	2" x 4"	2" x 2" x 0.036"
3" x 2" x 0.050"	2" x 4"	2" x 3" x 0.050"
3" x 3" x 0.060"	2" x 6" S.M.B.	2" x 3" x 0.050"
3" x 3" x 0.093"	2" x 8" S.M.B.	2" x 3" x 0.050"
3" x 3" x 0.125"	2" x 9" S.M.B.	3" x 3" x 0.093"



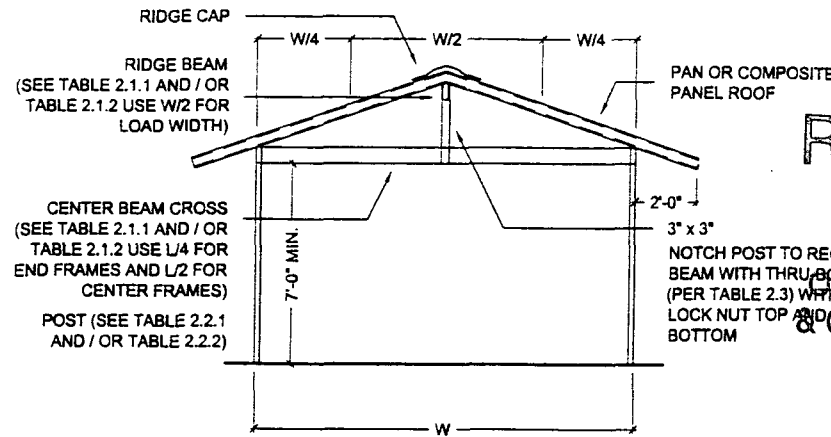
NOTE: FOR BEAM SPAN LENGTH 'A' FOR TABLE 2 EQUALS THE LARGER OF:
A1 = W
A2 = W/2 + O.H.

DOUBLE CARPORT

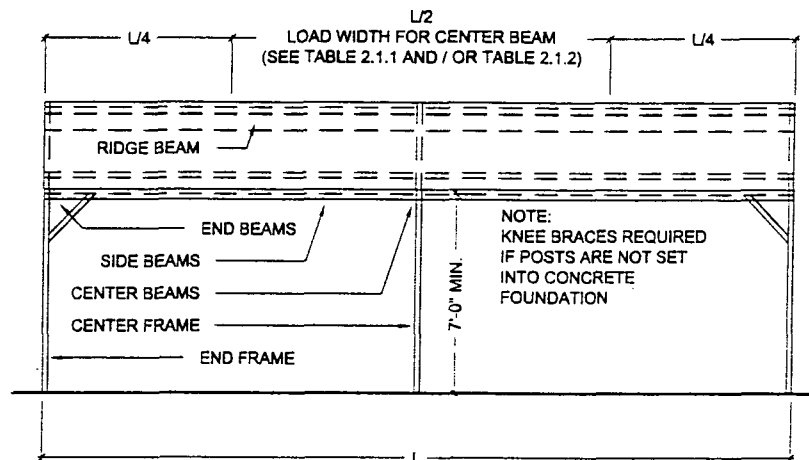


* MINIMUM SLOPE SHALL BE 1/2" PER 12" EXCEPT FOR 0.026" PANS FOR WHICH THE SLOPE SHALL BE 3/4" PER 12" FOR SPANS EXCEEDING 12'-0" OR MANUFACTURERS RECOMMENDED SLOPE

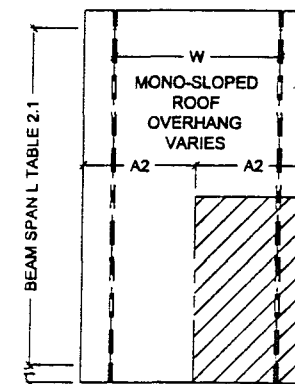
END VIEW DOUBLE CARPORT (GABLED)



GABLE CARPORT FRONT ELEVATION

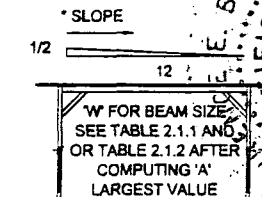


GABLE CARPORT SIDE ELEVATION



SHADING DENOTES MAXIMUM ROOF AREA FOR COLUMNS AND FOOTING

SINGLE CARPORT

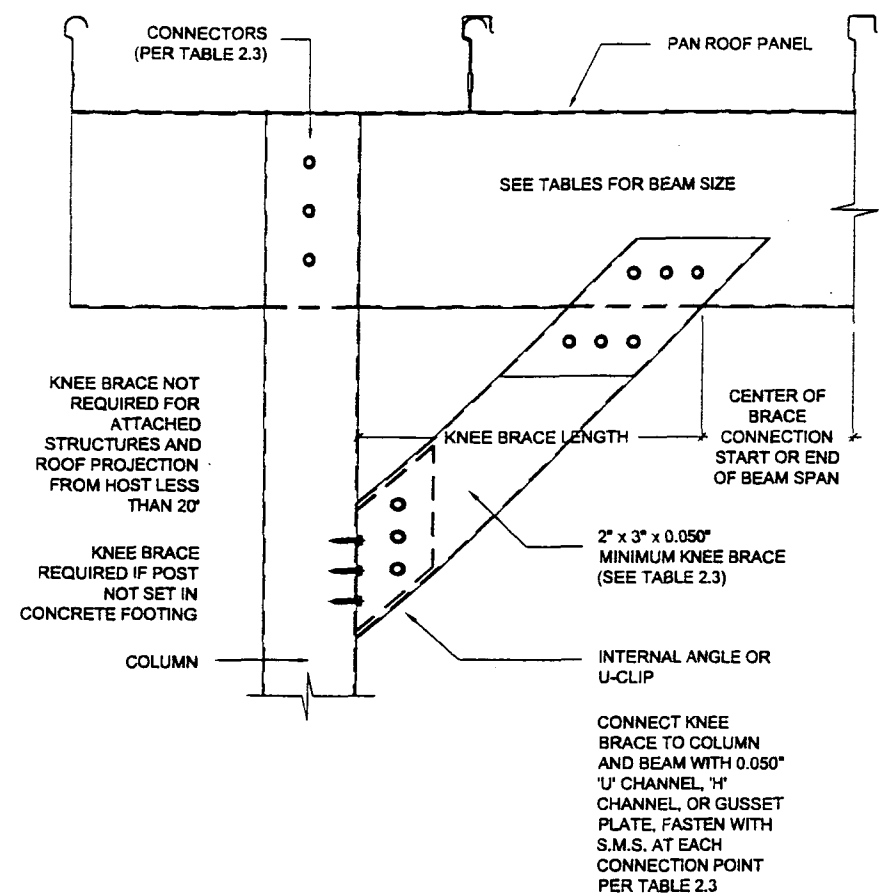


POST SIZE AND SPACING PER TABLE 2.1.1 AND / OR TABLE 2.2.2

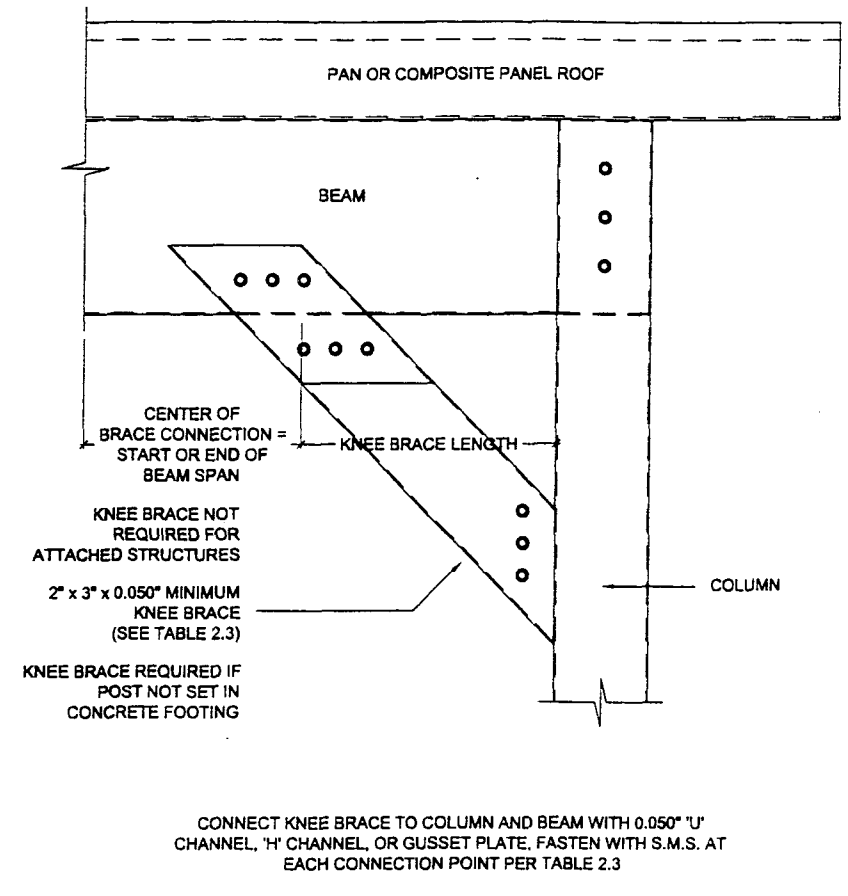
NOTE: KNEE BRACES ARE REQUIRED IF POSTS ARE NOT SET IN CONCRETE FOOTING

END VIEW SINGLE CARPORT

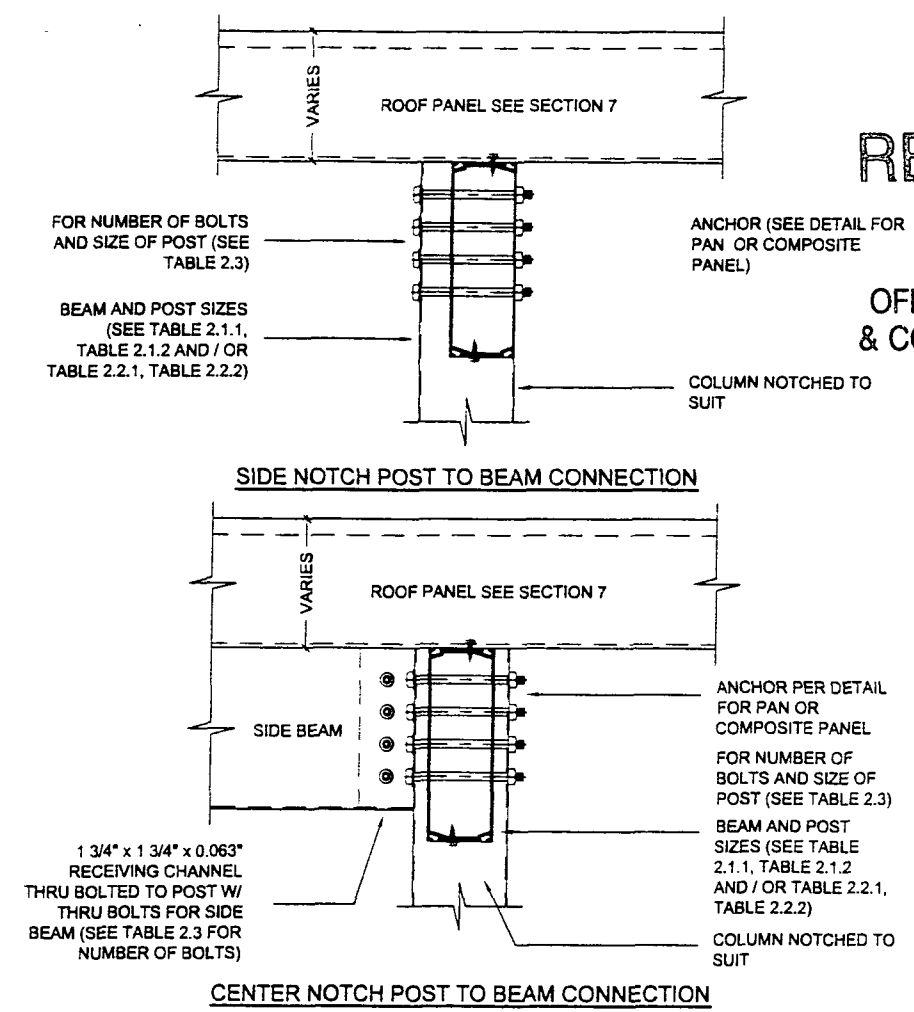
ST-1384



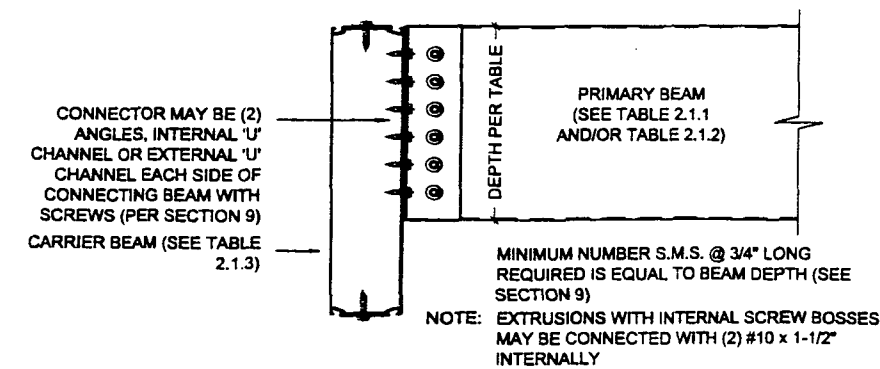
KNEE BRACE TO POST DETAIL - BEAM PERPENDICULAR TO ROOF



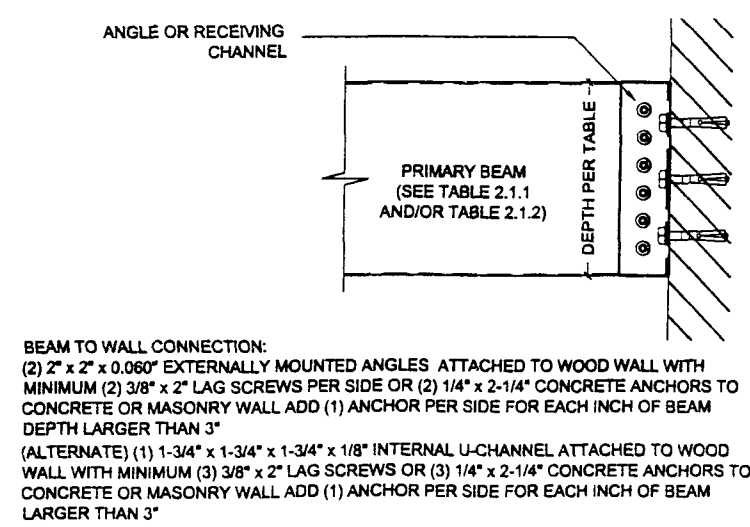
KNEE BRACE TO POST DETAIL - BEAM PARALLEL TO ROOF



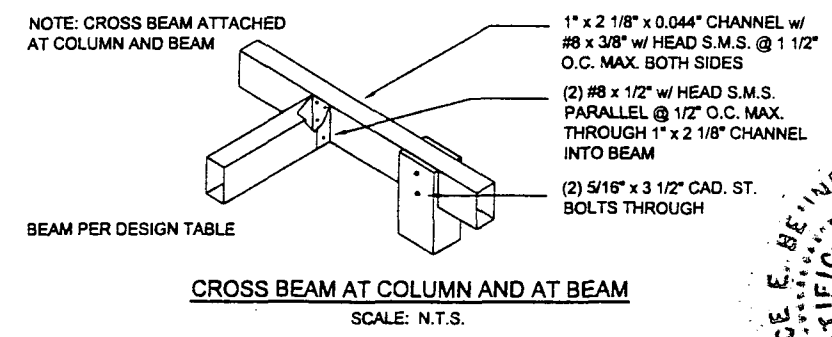
CENTER NOTCH POST TO BEAM CONNECTION



CARRIER BEAM TO BEAM CONNECTION



CARRIER BEAM TO WALL CONNECTION



CROSS BEAM AT COLUMN AND AT BEAM

RECEIVED

MAY 15 2001

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CARPORTS, PATIO COVERS & SHEDS
ALUMINUM STRUCTURES MANUAL
2000 EDITION
SECTION 2 DETAILS

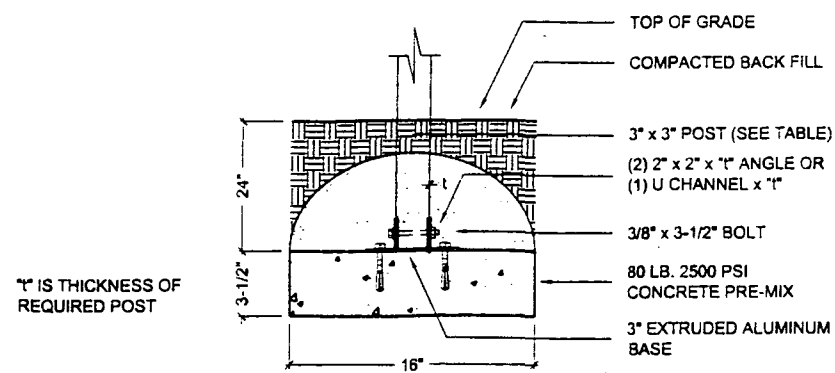
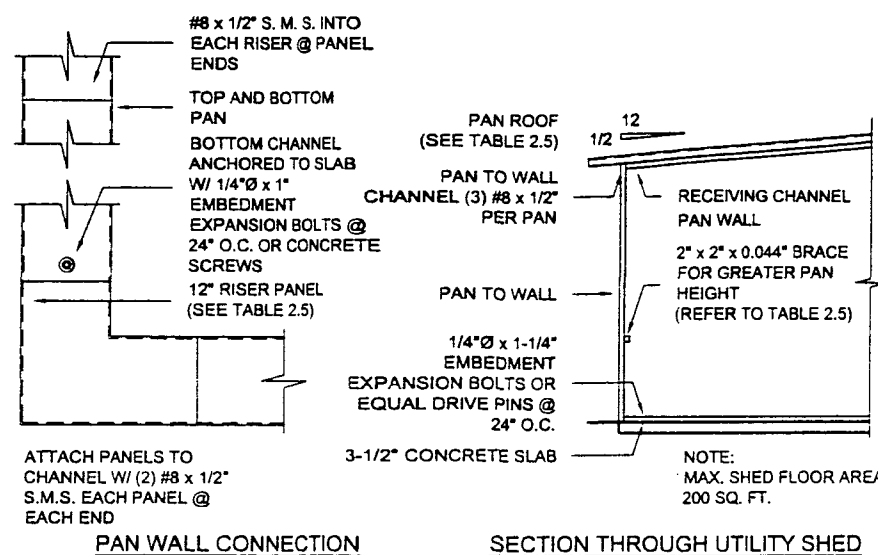
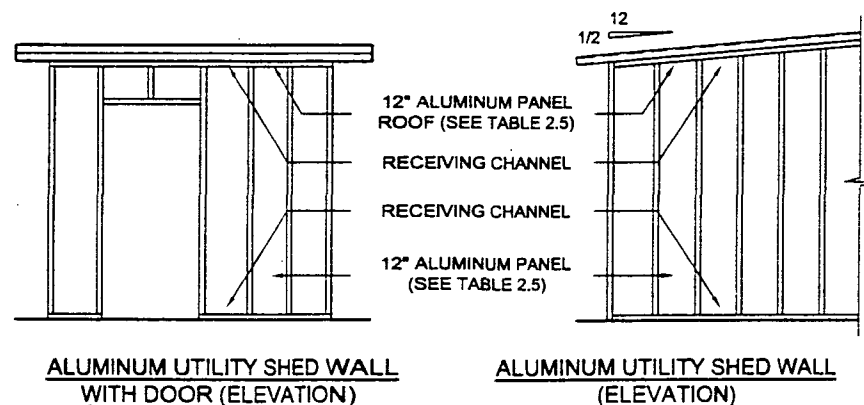
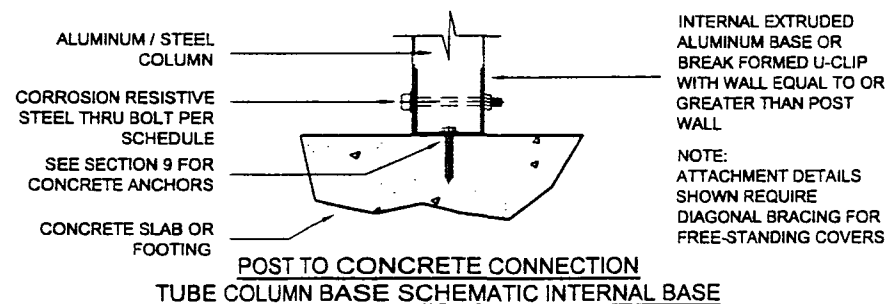
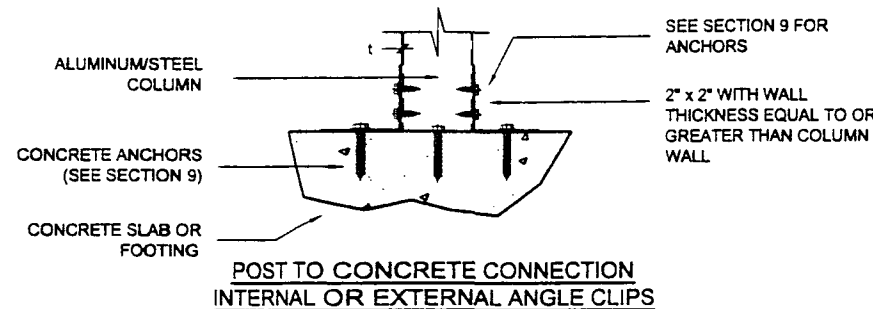
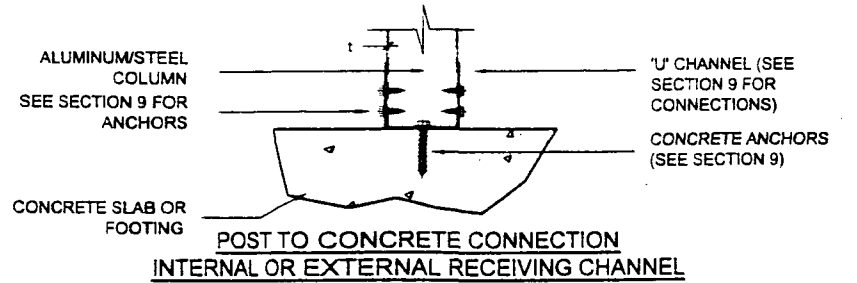
Lawrence E. Bennett, P.E.
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 4368 SOUTH DAYTONA, FL 32121
TELEPHONE (904) 767-4774
FAX (904) 767-6556

STATE OF FLORIDA
CERTIFICATE
NO. 16643

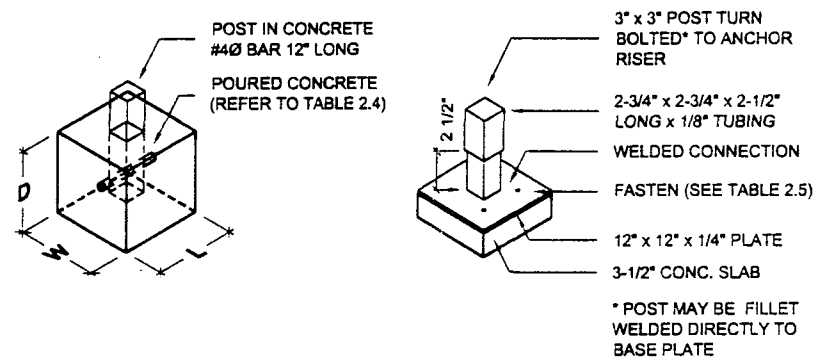
JAN 25 2001

SHEET

ST-1384

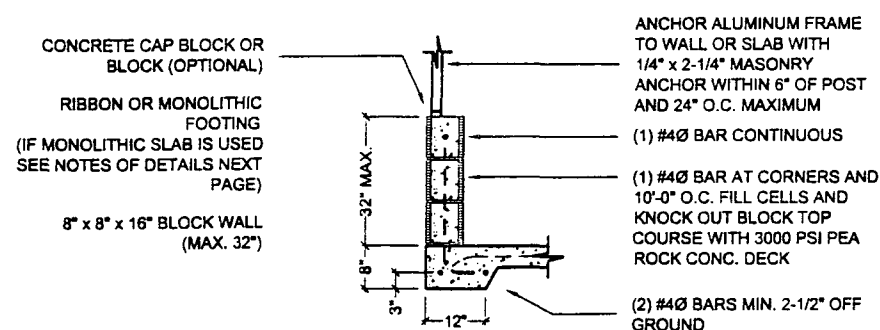


ALUMINUM POST AND BURIED FOOTING CONNECTION

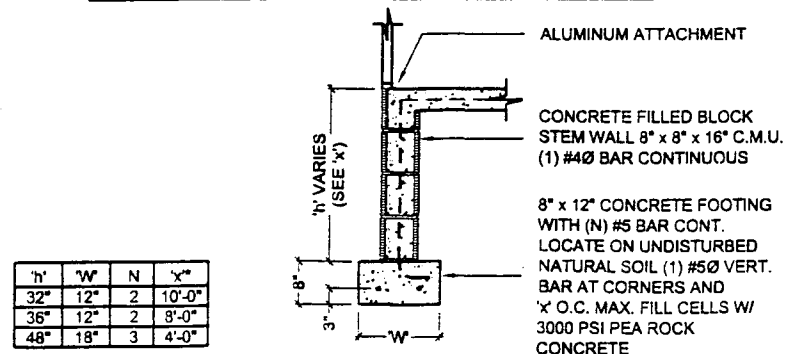


ISOLATED FOOTING

BASE ANCHOR CONNECTOR FOR POST TO SLAB CONNECTION

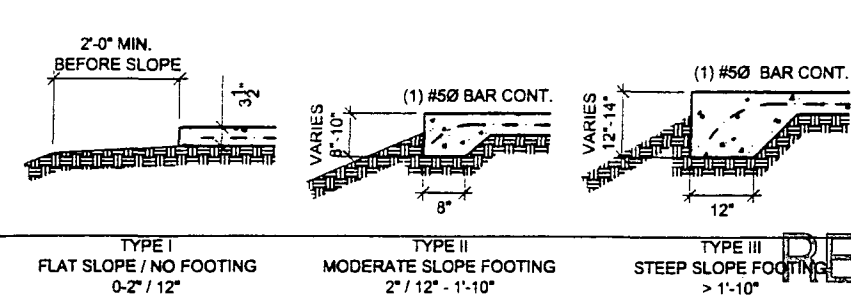


KNEE WALL FOOTING FOR SCREENED ENCLOSURES



* ALL MASONRY KNEE WALLS SHALL HAVE A FILLED CELL AND VERTICAL BAR AT ALL CORNERS
3-1/2\"/>

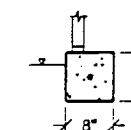
RAISED PATIO FOOTING
KNEE WALL FOOTING FOR SCREENED ENCLOSURES



NOTES:

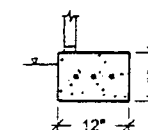
1. NO FOOTING OTHER THAN 4\"/>

SLAB-FOOTING DETAILS



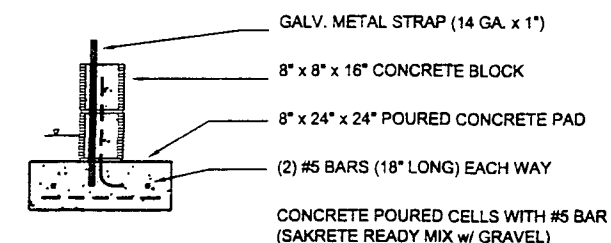
ALUMINUM STRUCTURE FOOTING
2500 PSI CONCRETE WITH (1) #5
BAR CONT. MINIMUM 2-1/2\"/>

RIBBON FOOTING TYPE I



ALUMINUM STRUCTURE FOOTING
2500 PSI CONCRETE WITH (3) #3
BAR CONT. MINIMUM 2-1/2\"/>

RIBBON FOOTING TYPE II



PAD FOOTING



CARPORTS, PATIO COVERS & SHEDS
ALUMINUM STRUCTURES MANUAL
2000 EDITION
SECTION 2 DETAILS

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TELEPHONE (904) 767-4774
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SEAL
4
OF 8

ST-1384

Table 2.1.1 Allowable Roof Beam Spans for Carports, Patio Covers, Screen Rooms, and other Open Buildings with Solid Roofs
Aluminum Alloy 6063 T-6

Wind Zone =	102 MPH	110 MPH	120 MPH	125 MPH	140 MPH
Applied Load =	17# / Sq. Ft.	20# / Sq. Ft.	23# / Sq. Ft.	26# / Sq. Ft.	32# / Sq. Ft.
Load Width	2" x 3" x 0.045 Hollow				
5'	5'-6"	5'-11"	5'-7"	5'-3"	4'-9"
6'	5'-11"	5'-5"	5'-1"	4'-9"	4'-4"
7'	5'-6"	5'-1"	4'-9"	4'-5"	3'-11"
8'	5'-2"	4'-9"	4'-5"	4'-2"	3'-9"
9'	4'-10"	4'-5"	4'-2"	3'-11"	3'-6"
10'	4'-7"	4'-3"	3'-11"	3'-8"	3'-4"
11'	4'-4"	4'-0"	3'-9"	3'-6"	3'-2"
12'	4'-2"	3'-10"	3'-7"	3'-5"	3'-1"
Load Width	2" x 3" x 0.050 Hollow Tilt				
5'	7'-4"	6'-9"	6'-4"	5'-11"	5'-4"
6'	6'-8"	6'-2"	5'-9"	5'-5"	4'-11"
7'	6'-3"	5'-9"	5'-4"	5'-0"	4'-6"
8'	5'-10"	5'-4"	4'-11"	4'-8"	4'-3"
9'	5'-6"	5'-1"	4'-8"	4'-5"	3'-11"
10'	5'-2"	4'-9"	4'-6"	4'-2"	3'-9"
11'	4'-11"	4'-7"	4'-3"	4'-0"	3'-7"
12'	4'-9"	4'-4"	4'-1"	3'-10"	3'-5"
Load Width	2" x 4" x 0.050 Hollow Tilt				
5'	9'-0"	8'-4"	7'-9"	7'-4"	6'-7"
6'	8'-3"	7'-7"	7'-1"	6'-8"	6'-0"
7'	7'-8"	7'-0"	6'-7"	6'-2"	5'-7"
8'	7'-2"	6'-7"	6'-2"	5'-9"	5'-2"
9'	6'-9"	6'-2"	5'-9"	5'-5"	4'-11"
10'	6'-5"	5'-11"	5'-6"	5'-2"	4'-8"
11'	6'-1"	5'-7"	5'-3"	4'-11"	4'-5"
12'	5'-10"	5'-4"	5'-0"	4'-9"	4'-3"
Load Width	2" x 4" x 0.036" x 0.100" Self Mating Beam				
5'	11'-4"	10'-6"	9'-9"	9'-2"	8'-3"
6'	10'-4"	9'-7"	8'-11"	8'-5"	7'-7"
7'	9'-7"	8'-10"	8'-3"	7'-9"	6'-11"
8'	8'-11"	8'-3"	7'-9"	7'-3"	6'-7"
9'	8'-6"	7'-10"	7'-3"	6'-10"	6'-2"
10'	8'-0"	7'-5"	6'-11"	6'-6"	5'-10"
11'	7'-8"	7'-1"	6'-7"	6'-2"	5'-7"
12'	7'-4"	6'-9"	6'-4"	5'-11"	5'-4"
Load Width	2" x 5" x 0.050" x 0.100" Self Mating Beam				
5'	14'-1"	12'-11"	12'-1"	11'-5"	10'-3"
6'	12'-10"	11'-10"	11'-1"	10'-5"	9'-4"
7'	11'-11"	10'-11"	10'-3"	9'-7"	8'-8"
8'	11'-1"	10'-3"	9'-7"	8'-11"	8'-1"
9'	10'-6"	9'-8"	9'-0"	8'-6"	7'-8"
10'	9'-11"	9'-2"	8'-7"	8'-1"	7'-3"
11'	9'-6"	8'-9"	8'-2"	7'-8"	6'-11"
12'	9'-1"	8'-4"	7'-10"	7'-4"	6'-7"

Example:

For 2" x 4" x 0.036" x 0.100" Self-Mating Beam; Beam span between uprights use load width to enter table.
For 12" Roof Panel + 2" Overhang; Load Width = LW = 12' / 2 + 2' O.H. = 8'; Enter table on left at 8' read allowable span under required load; Thus for 100 M.P.H. wind load/live load or 17 #/Sq. Ft. and Load Width = 8'-0" Maximum Beam Span for 2" x 4" x 0.050" x 0.100" = 11'-1"

Spans do not include length of knee brace. Add horizontal length of knee brace to above spans for total beam spans.

**Note:

For small covers 2" x 2" beams may be used. (see table 3.1.1 for spans)

Table 2.1.2 Allowable Roof Beam Spans for Carports, Patio Covers, Screen Rooms, and other Open Buildings with Solid Roofs
Aluminum Alloy 6063 T-6

Wind Zone =	102 MPH	110 MPH	120 MPH	125 MPH	140 MPH
Applied Load =	17# / Sq. Ft.	20# / Sq. Ft.	23# / Sq. Ft.	26# / Sq. Ft.	32# / Sq. Ft.
Load Width	2" x 6" x 0.050" x 0.120" Self Mating Beam				
5'	15'-1"	13'-11"	12'-11"	12'-2"	10'-11"
6'	13'-1"	12'-1"	11'-3"	10'-7"	9'-6"
7'	12'-4"	11'-4"	10'-7"	9'-11"	8'-11"
8'	11'-8"	10'-9"	10'-1"	9'-5"	8'-6"
9'	11'-2"	10'-3"	9'-7"	9'-0"	8'-1"
10'	10'-8"	9'-10"	9'-2"	8'-8"	7'-9"
11'	10'-3"	9'-5"	8'-10"	8'-3"	7'-6"
12'	9'-11"	9'-1"	8'-6"	7'-11"	7'-2"
Load Width	2" x 7" x 0.055" x 0.120" Self Mating Beam				
5'	16'-11"	15'-8"	14'-7"	13'-8"	12'-4"
6'	14'-8"	13'-6"	12'-7"	11'-10"	10'-8"
7'	13'-10"	12'-9"	11'-11"	11'-2"	10'-1"
8'	13'-2"	12'-1"	11'-3"	10'-7"	9'-7"
9'	12'-6"	11'-7"	10'-9"	10'-1"	9'-2"
10'	11'-11"	11'-1"	10'-4"	9'-8"	8'-9"
11'	11'-6"	10'-7"	9'-11"	9'-4"	8'-5"
12'	11'-1"	10'-3"	9'-6"	8'-11"	8'-1"
Load Width	2" x 8" x 0.072" x 0.224" Self Mating Beam				
5'	22'-0"	20'-4"	18'-11"	17'-10"	16'-1"
6'	19'-1"	17'-7"	16'-5"	15'-5"	13'-11"
7'	17'-11"	16'-7"	15'-5"	14'-6"	13'-1"
8'	17'-1"	15'-9"	14'-8"	13'-9"	12'-5"
9'	16'-3"	14'-11"	13'-11"	13'-2"	11'-10"
10'	15'-7"	14'-4"	13'-5"	12'-7"	11'-4"
11'	14'-11"	13'-9"	12'-10"	12'-1"	10'-11"
12'	14'-5"	13'-3"	12'-5"	11'-8"	10'-6"
Load Width	2" x 9" x 0.072" x 0.224" Self Mating Beam				
5'	24'-5"	22'-6"	20'-11"	19'-9"	17'-9"
6'	21'-2"	19'-6"	18'-2"	17'-1"	15'-5"
7'	19'-11"	18'-4"	17'-2"	16'-1"	14'-6"
8'	18'-11"	17'-5"	16'-3"	15'-3"	13'-9"
9'	18'-0"	16'-7"	15'-6"	14'-7"	13'-2"
10'	17'-3"	15'-11"	14'-10"	13'-11"	12'-7"
11'	16'-7"	15'-3"	14'-3"	13'-5"	12'-1"
12'	15'-11"	14'-9"	13'-9"	12'-11"	11'-8"
Load Width	2" x 9" x 0.082" x 0.306" Self Mating Beam				
5'	26'-4"	24'-4"	22'-8"	21'-4"	19'-2"
6'	22'-10"	21'-0"	19'-7"	18'-5"	16'-8"
7'	21'-6"	19'-10"	18'-6"	17'-5"	15'-8"
8'	20'-5"	18'-10"	17'-7"	16'-6"	14'-11"
9'	19'-6"	17'-11"	16'-9"	15'-9"	14'-2"
10'	18'-8"	17'-2"	16'-0"	15'-1"	13'-7"
11'	17'-11"	16'-6"	15'-5"	14'-6"	13'-1"
12'	17'-3"	15'-11"	14'-10"	13'-11"	12'-7"

Notes:

Above spans do not include length of knee brace. Add horizontal length of knee brace to above spans for total beam spans.

Table 2.1.3 Allowable Spans For CARRIER Beams in a Solid Roof, OPEN Structures
(102 MPH Wind Zone, Applied Load = 17 lbs / sq. ft.) Aluminum Alloy 6063 T-6

Single Self-Mating Beams	Tributary Load Width											
	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"
Allowable Span "L"												
2" x 4" x 0.038" x 0.100"	10'-4"	8'-11"	8'-0"	7'-4"	6'-9"	6'-4"	5'-11"	5'-8"	5'-5"	5'-2"	4'-11"	4'-10"
2" x 5" x 0.050" x 0.100"	12'-10"	11'-1"	9'-11"	9'-1"	8'-5"	7'-10"	7'-5"	7'-0"	6'-8"	6'-5"	6'-2"	5'-11"
2" x 6" x 0.050" x 0.120"	15'-1"	13'-1"	11'-8"	10'-8"	9'-11"	9'-3"	8'-9"	8'-3"	7'-11"	7'-7"	7'-3"	6'-11"
2" x 7" x 0.055" x 0.120"	17'-4"	15'-0"	13'-5"	12'-3"	11'-4"	10'-7"	10'-0"	9'-6"	9'-1"	8'-8"	8'-4"	8'-0"
2" x 8" x 0.072" x 0.224"	22'-0"	19'-1"	17'-1"	15'-7"	14'-5"	13'-6"	12'-9"	12'-1"	11'-6"	11'-0"	10'-7"	10'-2"
2" x 9" x 0.072" x 0.224"	24'-5"	21'-2"	18'-11"	17'-3"	15'-11"	14'-11"	14'-1"	13'-4"	12'-9"	12'-2"	11'-9"	11'-4"
2" x 9" x 0.082" x 0.306"	26'-4"	22'-10"	20'-5"	18'-8"	17'-3"	16'-2"	15'-3"	14'-5"	13'-9"	13'-2"	12'-8"	12'-2"
Double Self-Mating Beams	Tributary Load Width											
	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"
Allowable Span "L"												
2" x 8" x 0.072" x 0.224"	24'-1"	22'-0"	20'-5"	19'-1"	17'-11"	17'-1"	16'-3"	15'-7"	14'-11"	14'-5"	13'-11"	13'-6"
2" x 9" x 0.072" x 0.224"	26'-9"	24'-5"	22'-7"	21'-2"	19'-11"	18'-11"	18'-0"	17'-3"	16'-7"	15'-11"	15'-5"	14'-11"
2" x 9" x 0.082" x 0.306"	28'-10"	26'-4"	24'-5"	22'-10"	21'-6"	20'-5"	19'-6"	18'-8"	17'-11"	17'-3"	16'-8"	16'-2"
Double Self Mating Beams 2 x 4 Self Mating Beam added to Top/Bottom (perpendicular to webs)	Tributary Load Width											
	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"
Allowable Span "L"												
2" x 8" x 0.072" x 0.224"	26'-2"		22'-1"	20'-8"	19'-6"	18'-6"	17'-8"	16'-11"	16'-3"	15'-8"	15'-1"	14'-8"
2" x 9" x 0.072" x 0.224"	28'-10"	26'-3"	24'-4"	22'-9"	21'-6"	20'-4"	19'-5"	18'-7"	17'-10"	17'-2"	16'-7"	16'-1"
2" x 9" x 0.082" x 0.306"	30'-6"	27'-10"	25'-10"	24'-2"	22'-9"	21'-7"	20'-7"	19'-8"	18'-11"	18'-3"	17'-7"	17'-1"

Notes:

Above spans do not include length of knee brace. Add horizontal length of knee brace to above spans for total beam spans.

Wind Zone Conversion: Table is constructed for 102 mph wind zone, open structure (17 lbs/sqft), to convert tabular value to higher (more severe) wind zones, multiply by the factors in the following Conversion Table:

Wind Zone	Applied Load	Conversion Factor
102	17	1.00
110	20	0.92
120	23	0.86
125	26	0.81
140	32	0.73

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Table 2.2.1 Allowable Attributable Roof Area per Post for Carports, Patio Covers, and other Open Buildings - ALUMINUM POSTS

Aluminum Post						
Wind Load =	102 MPH	110 MPH	120 MPH	125 MPH	140 MPH	
Applied Load =	17 #/Sq. Ft.	20 #/Sq. Ft.	23 #/Sq. Ft.	26 #/Sq. Ft.	32 #/Sq. Ft.	
Maximum	Allowable Roof Area in Square Feet for Various Loads on Post					
Height	Load in Lbs	2" x 2" x 0.045" Hollow Extrusion or 2" x 2" x 0.045" Snap Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.090" Hollow Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6
7'-4"	2,064	121	103	90	79	65
8'-7"	1,548	91	77	67	60	48
9'-10"	1,204	71	60	52	46	38
11'-1"	903	53	45	39	35	28
Height	Load in Lbs	2" x 3" x 0.045" Hollow Extrusion or 2" x 3" x 0.045" Snap Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.090" Hollow Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6
8'-2"	2,736	161	137	119	105	86
9'-6"	2,502	147	125	109	96	78
10'-11"	1,596	94	80	69	61	50
12'-3"	1,197	70	60	52	46	37
Height	Load in Lbs	3" x 3" x 0.045" Roll Formed - Aluminum Alloy 3105 H-14	3" x 3" x 0.090" Roll Formed - Aluminum Alloy 3105 H-14	3" x 3" x 0.125" Roll Formed - Aluminum Alloy 3105 H-14	4" x 4" x 0.125" Roll Formed - Aluminum Alloy 3105 H-14	4" x 4" x 0.125" Roll Formed - Aluminum Alloy 3105 H-14
10'-0"	2,381	140	119	104	92	74
11'-8"	1,786	105	89	78	69	56
13'-4"	1,389	82	69	60	53	43
15'-0"	1,042	61	52	45	40	33
Height	Load in Lbs	3" x 3" x 0.060" Roll Formed - Aluminum Alloy 3105 H-14	3" x 3" x 0.090" Roll Formed - Aluminum Alloy 3105 H-14	3" x 3" x 0.125" Roll Formed - Aluminum Alloy 3105 H-14	4" x 4" x 0.125" Roll Formed - Aluminum Alloy 3105 H-14	4" x 4" x 0.125" Roll Formed - Aluminum Alloy 3105 H-14
11'-0"	3,600	212	180	157	138	113
12'-10"	2,700	159	135	117	104	84
14'-8"	2,100	124	105	91	81	66
16'-6"	1,575	93	79	68	61	49
Height	Load in Lbs	3" x 3" x 0.060" Fluted Hollow Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.090" Fluted Hollow Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.125" Fluted Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Fluted Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Fluted Hollow Extrusion - Aluminum Alloy 6063 T-6
11'-10"	3,408	200	170	148	131	107
13'-10"	2,556	150	128	111	98	80
15'-10"	1,988	117	99	86	76	62
17'-10"	1,491	88	75	65	57	47

Example:
Find Roof Area Needed: Area = 'A'; Post Spacing = 'S'; Structure Projection = 'W';
A = S x (W/2 + O.H.); If 'S' = 7', W = 12', and O.H. = 2' then: 'Area' = 56 Sq. Ft.
For a 10'-11" post and 120 m.p.h. wind load or 23 # / Sq. Ft. post choices are: 69
1) 2" x 3" x 0.050" Hollow Extrusion
2) All post sizes listed below the 2" x 3" x 0.044" Hollow Section
Note:
Where job conditions dictate a post height of 10' in a 120 MPH wind zone, a 3" x 3" Roll Formed COULD NOT BE used because when it is more than 10' tall it can only support 39 SF of roof. On the other hand, a 3" x 3" Fluted Post with a post height of 10'-7" can support an area of 128 square feet of area. Thus, design must satisfy both height and area requirements.

Table 2.4 Footings - Maximum Roof Area for Carport Posts

Wind Zone =	102 MPH	110 MPH	120 MPH	125 MPH	140 MPH
Applied Load =	17 #/FL ²	20 #/FL ²	23 #/FL ²	26 #/FL ²	32 #/FL ²
Existing Slab on Grade with unknown reinforcement	20	17	15	13	10

Isolated Footing Dimensions**	Rating #	Uplift				
		Maximum Attributable Roof Area in Square Feet				
1'-0" x 1'-0" x 1'-0"	520	30	26	22	20	16
1'-4" x 1'-4" x 1'-4"	1000	59	50	43	38	31
1'-6" x 1'-6" x 1'-6"	1320	77	66	57	51	41
1'-8" x 1'-8" x 2'-0"	2040	120	102	89	78	64
1'-8" x 1'-8" x 2'-6"	2540	150	127	111	98	80
2'-0" x 2'-0" x 2'-0"	2640	155	132	115	102	83
2'-0" x 2'-0" x 2'-6"	3300	194	165	143	127	103
2'-6" x 2'-6" x 2'-6"	4000	270	230	200	177	144
2'-6" x 2'-6" x 3'-0"	4800	324	276	240	212	172

**Notes:
Isolated Footing is a poured concrete rectangular solid (Length x Width x Depth).
Slab on grade must be new or in good condition.

Pre-Cast Block Footing

Pre-cast footing block (16" x 16" x 4") at 24" below grade with 80 # bag pre-mix concrete and backfilled to grade.

Dimensions	Uplift Rating #	Maximum Attributable Roof Area in Square Feet			
(1) 80# Bag	1,734	102	87	78	67
(1) 80# Bag	1,819	107	91	79	70
(1) 80# Bag	1,904	112	95	83	73

Note: Maximum uplift on post is determined by multiplying maximum attributable roof area x applied load.

Example: Post tributary roof area = 77

Applied load for 110 MPH wind zone = 20#/Sq. Ft.

Uplift on post = 77 x 20 = 1,540#

Table 2.2.2 Allowable Attributable Roof Area per Post for Carports, Patio Covers, and other Open Buildings - ALUMINUM POSTS

Aluminum Post						
Wind Load =	102 MPH	110 MPH	120 MPH	125 MPH	140 MPH	
Applied Load =	17 #/Sq. Ft.	20 #/Sq. Ft.	23 #/Sq. Ft.	26 #/Sq. Ft.	32 #/Sq. Ft.	
Maximum	Allowable Roof Area in Square Feet for Various Loads on Post					
Height	Load in Lbs	3" x 3" x 0.090" Hollow Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6
11'-10"	5,184	305	259	199	162	122
13'-10"	3,888	229	194	169	150	122
15'-10"	3,024	178	151	131	116	95
17'-10"	2,268	133	113	99	87	71
Height	Load in Lbs	3" x 3" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	3" x 3" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6
13'-9"	6,912	407	346	301	266	216
16'-1"	5,184	305	259	225	199	162
18'-4"	4,032	237	202	175	155	126
20'-7"	3,024	178	151	131	116	95
Height	Load in Lbs	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6	4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6
15'-9"	9,312	548	468	405	358	291
18'-5"	6,984	411	349	304	269	218
21'-0"	5,432	320	272	236	209	170
23'-8"	4,074	240	204	177	157	127

Steel Post						
Wind Load =	102 MPH	110 MPH	120 MPH	125 MPH	140 MPH	
Applied Load =	17 #/Sq. Ft.	20 #/Sq. Ft.	23 #/Sq. Ft.	26 #/Sq. Ft.	32 #/Sq. Ft.	
Maximum	Allowable Roof Area in Square Feet for Various Loads on Post					
Height	Load in Lbs	3" x 3" x 14 Gauge Post - 46 k.s.i. Steel	3" x 3" x 11 Gauge Post - 46 k.s.i. Steel	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel	4" x 4" x 11 Gauge Post - 46 k.s.i. Steel	4" x 4" x 11 Gauge Post - 46 k.s.i. Steel
19'-10"	10,050	591	503	437	387	314
21'-9"	7,430	437	372	323	286	232
23'-9"	5,638	332	282	245	217	176
25'-9"	4,371	257	219	190	168	137
Height	Load in Lbs	3" x 3" x 11 Gauge Post - 46 k.s.i. Steel	3" x 3" x 11 Gauge Post - 46 k.s.i. Steel	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel	4" x 4" x 11 Gauge Post - 46 k.s.i. Steel	4" x 4" x 11 Gauge Post - 46 k.s.i. Steel
19'-8"	15,870	934	794	690	610	496
21'-7"	11,730	690	587	510	451	367
23'-6"	8,970	528	449	390	345	280
25'-6"	6,900	406	345	300	265	216
Height	Load in Lbs	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel	4" x 4" x 14 Gauge Post - 46 k.s.i. Steel
26'-8"	12,650	744	633	550	487	395
29'-3"	9,350	550	468	407	360	292
32'-0"	7,150	421	358	311	275	223
34'-8"	5,500	324	275	239	212	172

Table 2.5 Allowable Spans / Heights for Aluminum Pans Utility Shed Roof or Walls

1-1/4" x 12" x 0.026" Panel				1-1/4" x 12" x 0.032" Panel			
Wind Region	Overhang Condition	1'-0"	2'-0"	Wind Region	Overhang Condition	1'-0"	2'-0"
102 M.P.H.	NONE	8'-0"	8'-3"	102 M.P.H.	NONE	8'-11"	9'-9"
110 M.P.H.	7'-5"	7'-8"	8'-5"	110 M.P.H.	8'-2"	8'-5"	9'-1"
120 M.P.H.	6'-4"	7'-2"	7'-11"	120 M.P.H.	7'-8"	7'-11"	8'-7"
1-3/4" x 12" x 0.026" Cleated Panel				1-3/4" x 12" x 0.032" Cleated Panel			
WIND REGION	Overhang Condition	1'-0"	2'-0"	WIND REGION	Overhang Condition	1'-0"	2'-0"
102 M.P.H.	NONE	9'-3"	9'-5"	102 M.P.H.	10'-2"	10'-4"	10'-11"
110 M.P.H.	8'-6"	8'-9"	9'-5"	110 M.P.H.	9'-5"	9'-7"	10'-2"
120 M.P.H.	7'-11"	8'-2"	8'-11"	120 M.P.H.	8'-9"	8'-11"	9'-7"
1-1/2" x 12" x 0.026" Panel				1-1/2" x 12" x 0.032" Panel			
WIND REGION	Overhang Condition	1'-0"	2'-0"	WIND REGION	Overhang Condition	1'-0"	2'-0"
102 M.P.H.	NONE	8'-10"	9'-1"	102 M.P.H.	9'-10"	10'-1"	10'-8"
110 M.P.H.	8'-2"	8'-5"	9'-1"	110 M.P.H.	9'-1"	9'-4"	9'-11"
120 M.P.H.	7'-7"	7'-11"	8'-7"	120 M.P.H.	8'-6"	8'-8"	9'-4"
3" x 12" x 0.026" Panel				3" x 12" x 0.032" Panel			
Wind Region	Overhang Condition	1'-0"	2'-0"	Wind Region	Overhang Condition	1'-0"	2'-0"
102 M.P.H.	NONE	15'-3"	15'-4"	102 M.P.H.	15'-10"	15'-11"	17'-4"
110 M.P.H.	14'-0"	14'-2"	14'-7"	110 M.P.H.	15'-8"	15'-8"	16'-1"
120 M.P.H.	13'-1"	13'-3"	13'-8"	120 M.P.H.	14'-6"	14'-8"	15'-0"

Room Roof Panel span = "W" as shown on drawings.

Note: To span install 2" x 2" x 0.036" Extrusion at Midspan increase span by 25% maximum shed area.

Table 2.3 Schedule of Post to Beam Size and Number of Thru-Bolts Required Aluminum Alloy 6063 T-6

Beam Size	Minimum Post Size	# Thru-Bolt @ L=0+1/4"	Minimum Knee Brace*	Min. # Knee Brace Screws
2" x 3" x 0.050" Hollow Tilt	3" x 3" x 0.060" Scallop	2	-	2" x 3" x 0.050" (3) #8
2" x 4" x 0.050" Hollow	3" x 3" x 0.060" Scallop	2	-	2" x 3" x 0.050" (3) #8
2" x 4" x 0.036" x 0.100" Self Mating Beam	3" x 3" x 0.060" Scallop	2	-	2" x 3" x 0.050" (3) #8
2" x 5" x 0.050" x 0.100" Self Mating Beam	3" x 3" x 0.060" Scallop	2	-	2" x 3" x 0.050" (3) #8
2" x 6" x 0.050" x 0.120" Self Mating Beam	3" x 3" x 0.060" Scallop	2	-	2" x 3" x 0.050" (3) #10
2" x 7" x 0.055" x 0.120" Self Mating Beam	3" x 3" x 0.093"	3	2	2" x 4" x 0.050" (3) #10
2" x 8" x 0.072" x 0.224" Self Mating Beam	3" x 3" x 0.093"	3	2	2" x 4" x 0.050" (3) #12
2" x 9" x 0.072" x 0.224" Self Mating Beam	3" x 3" x 0.125"	4	3	2" x 4" x 0.050" (3) #14
2" x 9" x 0.082" x 0.306" Self Mating Beam	3" x 3" x 0.125"	4	3	2" x 4" x 0.050" (3) #14

The minimum number of thru bolts is (2)

* Minimum post/beam may be used as minimum knee brace

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CARPORTS, PATIO COVERS & SHEDS
ALUMINUM STRUCTURES MANUAL
2000 EDITION
SECTION 2 TABLES

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Table 9.1 WOOD AND CONCRETE FASTENERS FOR OPEN BUILDINGS / LOADS & AREAS

Maximum Allowable - Load and Attributable Roof Area for 120 MPH Wind Zone (23 # SF)
(For Wind Regions other than 120 MPH, Use Conversion Table at Bottom of this page)

CONNECTING TO: WOOD for OPEN Buildings

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
1/4"e	1"	284# - 11 SF	578# - 23 SF	792# - 34 SF	1056# - 48 SF
1/4"e	1-1/2"	398# - 17 SF	792# - 34 SF	1188# - 52 SF	1584# - 69 SF
1/4"e	2-1/2"	680# - 29 SF	1320# - 57 SF	1980# - 88 SF	2640# - 115 SF
5/16"e	1"	312# - 14 SF	624# - 27 SF	936# - 41 SF	1248# - 54 SF
5/16"e	1-1/2"	488# - 20 SF	936# - 41 SF	1404# - 61 SF	1872# - 81 SF
5/16"e	2-1/2"	780# - 34 SF	1560# - 68 SF	2340# - 102 SF	3120# - 138 SF
3/8"e	1"	358# - 15 SF	712# - 31 SF	1068# - 46 SF	1424# - 55 SF
3/8"e	1-1/2"	534# - 23 SF	1068# - 46 SF	1602# - 70 SF	2136# - 93 SF
3/8"e	2-1/2"	890# - 39 SF	1780# - 77 SF	2670# - 118 SF	3560# - 155 SF

CONNECTING TO: CONCRETE (Min. 2,500 psi) for OPEN Buildings

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
1/4"e	1-1/2"	233# - 10 SF	466# - 20 SF	699# - 30 SF	932# - 41 SF
1/4"e	2"	270# - 12 SF	540# - 23 SF	810# - 35 SF	1080# - 47 SF

TYPE OF FASTENER = "Quick Set" Concrete Screw (Rawl Zamac Nailin or Equivalent)

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
1/4"e	1-1/2"	233# - 10 SF	466# - 20 SF	699# - 30 SF	932# - 41 SF
1/4"e	2"	270# - 12 SF	540# - 23 SF	810# - 35 SF	1080# - 47 SF

TYPE OF FASTENER = Concrete Screw (Rawl Tapper or Equivalent)

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
3/16"e	1-1/2"	246# - 11 SF	492# - 21 SF	738# - 32 SF	984# - 43 SF
3/16"e	1-3/4"	317# - 14 SF	634# - 28 SF	951# - 41 SF	1268# - 55 SF
1/4"e	1-1/2"	385# - 18 SF	730# - 32 SF	1095# - 48 SF	1460# - 63 SF
1/4"e	1-3/4"	465# - 20 SF	930# - 40 SF	1395# - 61 SF	1860# - 81 SF
3/8"e	1-1/2"	437# - 19 SF	874# - 38 SF	1311# - 57 SF	1748# - 78 SF
3/8"e	1-3/4"	601# - 26 SF	1202# - 52 SF	1803# - 78 SF	2404# - 105 SF

TYPE OF FASTENER = Expansion Bolts (Rawl Power Bolt or Equivalent)

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
3/8"e	2-1/2"	1205# - 52 SF	2410# - 105 SF	3615# - 157 SF	4820# - 210 SF
3/8"e	3-1/2"	1303# - 57 SF	2606# - 113 SF	3909# - 170 SF	5212# - 227 SF
1/2"e	3"	1806# - 79 SF	3612# - 157 SF	5418# - 238 SF	7224# - 314 SF
1/2"e	5"	1993# - 87 SF	3986# - 173 SF	5979# - 260 SF	7972# - 347 SF

WIND LOAD CONVERSION TABLE:

WIND REGION	CONVERSION FACTOR
102	1.35
110	1.15
120	1.00
140	0.88
160	0.72

Note: For Wind Zones/Regions other than 120 MPH (Tables Shown), multiply allowable loads and roof areas by the conversion factor.

The minimum distance from the edge of concrete is 9d where d is the anchor diameter.

Table 9.2 WOOD AND CONCRETE FASTENERS FOR ENCLOSED BUILDINGS / LOADS & ROOF AREAS

Maximum Allowable - Load and Attributable Roof Area for 120 MPH Wind Zone (41 # / SF)
(For Wind Regions other than 120 MPH, Use Conversion Table at Bottom of this page)

CONNECTING TO: WOOD for OPEN Buildings

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
1/4"e	1"	284# - 6 SF	578# - 13 SF	792# - 19 SF	1056# - 26 SF
1/4"e	1-1/2"	398# - 10 SF	792# - 19 SF	1188# - 29 SF	1584# - 39 SF
1/4"e	2-1/2"	680# - 18 SF	1320# - 32 SF	1980# - 48 SF	2640# - 64 SF
5/16"e	1"	312# - 8 SF	624# - 15 SF	936# - 23 SF	1248# - 30 SF
5/16"e	1-1/2"	488# - 11 SF	936# - 23 SF	1404# - 34 SF	1872# - 46 SF
5/16"e	2-1/2"	780# - 19 SF	1560# - 38 SF	2340# - 57 SF	3120# - 78 SF
3/8"e	1"	358# - 9 SF	712# - 17 SF	1068# - 28 SF	1424# - 35 SF
3/8"e	1-1/2"	534# - 13 SF	1068# - 26 SF	1602# - 39 SF	2136# - 52 SF
3/8"e	2-1/2"	890# - 22 SF	1780# - 43 SF	2670# - 65 SF	3560# - 87 SF

CONNECTING TO: CONCRETE (Min. 2,500 psi) for OPEN Buildings

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
1/4"e	1-1/2"	233# - 10 SF	466# - 20 SF	699# - 30 SF	932# - 41 SF
1/4"e	2"	270# - 12 SF	540# - 23 SF	810# - 35 SF	1080# - 47 SF

TYPE OF FASTENER = "Quick Set" Concrete Screw (Rawl Zamac Nailin or Equivalent)

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
1/4"e	1-1/2"	233# - 10 SF	466# - 20 SF	699# - 30 SF	932# - 41 SF
1/4"e	2"	270# - 12 SF	540# - 23 SF	810# - 35 SF	1080# - 47 SF

TYPE OF FASTENER = Concrete Screw (Rawl Tapper or Equivalent)

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
3/16"e	1-1/2"	246# - 6 SF	492# - 12 SF	738# - 18 SF	984# - 24 SF
3/16"e	1-3/4"	317# - 8 SF	634# - 15 SF	951# - 23 SF	1268# - 31 SF
1/4"e	1-1/2"	385# - 9 SF	730# - 18 SF	1095# - 27 SF	1460# - 36 SF
1/4"e	1-3/4"	465# - 11 SF	930# - 23 SF	1395# - 34 SF	1860# - 45 SF
3/8"e	1-1/2"	437# - 11 SF	874# - 21 SF	1311# - 32 SF	1748# - 43 SF
3/8"e	1-3/4"	601# - 15 SF	1202# - 29 SF	1803# - 44 SF	2404# - 59 SF

TYPE OF FASTENER = Expansion Bolts (Rawl Power Bolt or Equivalent)

Fastener Diameter	Length of Embedment	Number of Fasteners			
		1	2	3	4
3/8"e	2-1/2"	1205# - 29 SF	2410# - 59 SF	3615# - 88 SF	4820# - 118 SF
3/8"e	3-1/2"	1303# - 32 SF	2606# - 64 SF	3909# - 95 SF	5212# - 127 SF
1/2"e	3"	1806# - 44 SF	3612# - 88 SF	5418# - 132 SF	7224# - 176 SF
1/2"e	5"	1993# - 49 SF	3986# - 97 SF	5979# - 148 SF	7972# - 194 SF

WIND LOAD CONVERSION TABLE:

WIND REGION	CONVERSION FACTOR
102	1.35
110	1.15
120	1.00
140	0.88
160	0.72

Note: For Wind Zones/Regions other than 120 MPH (Tables Shown), multiply allowable loads and roof areas by the conversion factor.

The minimum distance between from the edge of the concrete to the center of the concrete anchor is 9d where d is the anchor diameter.

Table 9.3 Allowable Loads On Metal Fasteners (As Recommended By Manufacturers)

Self-Tapping and Machine Screws Allowable Loads Tensile Strength 55,000 psi; Shear 24,000 psi

Metal to Metal**

Screw Diameter	Shear (lbs.)	Double Shear (lbs.)	Pull Out (lbs.)
#8	334	668	167
#10	418	836	209
#12	576	1,152	288
#14	734	1,468	367
1/4"	761	1,522	380
5/16"	1,253	2,506	628
3/8"	1,588	3,176	928

Metal to Plywood

Screw Diameter	1/2" 4 ply		5/8" 4 ply		3/4" 4 ply	
	Shear (lbs.)	Pull Out (lbs.)	Shear (lbs.)	Pull Out (lbs.)	Shear (lbs.)	Pull Out (lbs.)
#8	93	48	113	59	134	71
#10	100	55	120	69	141	78
#12	118	71	131	78	143	94
#14	132	70	145	98	157	105

CONNECTING: POSTS TO BEAMS using BOLTS for OPEN Buildings

Thru Bolt Diameter	Number of Fasteners		
	1	2	3
1/4"e	1488 - 59	2936 - 117	4404 - 178
3/8"e	3710 - 148	7420 - 297	11130 - 445
1/2"e	5596 - 264	11192 - 528	16788 - 792

Length of Bolt to be Size of Post + 1/4" (Typical)

CONNECTING: POSTS TO BEAMS using BOLTS for ENCLOSED Buildings

Thru Bolt Diameter	Number of Fasteners		
	1	2	3
1/4"e	1488 - 36	2936 - 72	4404 - 107
3/8"e	3710 - 90	7420 - 181	11130 - 271
1/2"e	5596 - 161	11192 - 322	16788 - 483

Length of Bolt to be Size of Post + 1/4" (Typical)

Aluminum Rivets with Aluminum Mandrel

Rivet Diameter	Tension (lbs.)	Shear
1/8"	129	176
5/32"	187	263
3/16"	262	375

Aluminum Rivets with Aluminum Mandrel

Rivet Diameter	Tension (lbs.)	Shear
1/8"	210	325
5/32"	340	490
3/16"	445	720

* Screw goes through two sides of members.
** All barrel lengths; Cokus Industrial Quality. Use manufacturers grip range to match total wall thickness of connection. Use chart. To Select screw U.S. rivet substitution of anchor specifications in drawings.
*** Minimum thickness of frame members is 0.036" aluminum and 26 ga. steel.

Table 9.4 Alternative Angle and Anchor Systems for Beams Anchored to Walls, Uprights, or Carrier Beams

Extrusion Type	Size Description	Maximum Screw / Anchor Size	
		To Wall	To Upright / Beam
angle	1" x 1" x 0.045"	3/16"	#10
angle	1" x 1" x 1/16" (0.063")	3/16"	#12
angle	1" x 1" x 1/8" (0.125")	3/16"	#12
angle	1-1/2" x 1-1/2" x 1/16" (0.062")	1/4"	#12
angle	1-1/2" x 1-1/2" x 3/16" (0.188")	1/4"	#14
angle	1-1/2" x 1-1/2" x 1/8" (0.062")	1/4"	#14
angle	1-3/4" x 1-3/4" x 1/8" (0.125")	1/4"	#14
angle	2" x 2" x 0.093"	3/8"	3/8"
angle	2" x 2" x 1/8" (0.125")	5/16"	5/16"
angle	2" x 2" x 3/16" (0.313")	1/2"	1/2"
U-channel	1-3/4" x 1-3/4" x 1-3/4" x 1/8"	3/8"	#14
U-channel	1" x 2-1/8" x 1" x 0.050"	5/16"	5/16"
U-channel	1-1/2" x 2-1/8" x 1-1/2" x 0.043"	1/2"	#14

Note: # of screws to beam, wall, and/or post equal to depth of beam

Table 9.5 Minimum Anchor Size for Extrusions

Extrusions	Wall Connection			
	Wall	Metal Upright	Concrete	Wood
2" x 9"	1/4"	#14	1/4"	1/4"
2" x 8"	1/4"	#12	1/4"	#12
2" x 7"	3/16"	#10	3/16"	#10
2" x 6" or less	3/16"	#8	3/16"	#8

Note: Wall, beam and upright minimum anchor sizes shall be used for super gutter connections.

Table 9.6 Alternative Anchor Selection Factors for Anchor / Screw Sizes

Anchor Size	Metal to Metal					
	#8	#10	#12	#14	5/16"	3/8"
#8	1.00	0.80	0.58	0.46	0.27	0.21
#10	0.80	1.00	0.72	0.57	0.33	0.26
#12	0.58	0.72	1.00	0.78	0.46	0.38
#14	0.46	0.57	0.78	1.00	0.59	0.48
5/16"	0.27	0.33	0.46	0.59	1.00	0.79
3/8"	0.21	0.26	0.38	0.48	0.79	1.00

Alternative Anchor Selection Factors for Anchor / Screw Sizes

Concrete and Wood Anchors

(concrete screws: 2" maximum embedment)

Anchor Size	3/16"	1/4"	3/8"
3/16"	1.00	0.83	0.50
1/4"	0.83	1.00	0.59
3/8"	0.50	0.59	1.00

(DYNA BOLTS: 1-5/8" and 2-1/4" embedment respectively)

Anchor Size	3/16"	1/2"
3/16"	1.00	0.46
1/2"	0.46	1.00

* Multiply the number of #8 screws x the size of anchor/screw desired and round up to the next even number of screws.

Example: If (10) #8 screws are required, the number of #10 screws desired is: 0.8 x 10 = (8) #10

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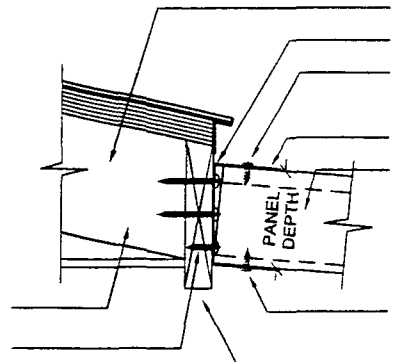
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PAN ROOF ANCHORING DETAILS

ALTERNATE CONNECTION:
(3) #8 SCREWS PER PAN
WITH 1" MINIMUM
EMBEDMENT INTO FASCIA
THROUGH PAN BOXED END



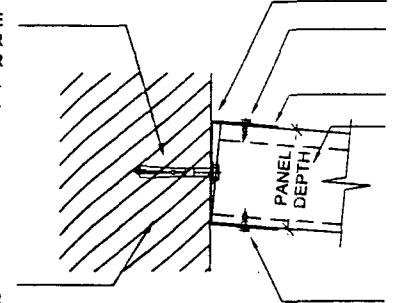
EXISTING TRUSS OR RAFTER
SEALANT
#8 x 1/2" S.M.S. (3) PER PAN
(BOTTOM) AND (1) @ RISER
(TOP)
HEADER (SEE NOTE BELOW)
ROOF PANEL

#10 x 1-1/2" S.M.S. (1) PER
RAFTER OR TRUSS TAIL
#10 x 3/4" S.M.S. @ 12" O.C.

#8 x 1/2" S.M.S. (3) PER PAN
(BOTTOM) AND (1) @ RISER
(TOP)
EXISTING FASCIA

ROOF PANEL TO FASCIA DETAIL

FOR MASONRY USE
1/4" x 1-1/4" TAP-CON ANCHOR
OR EQUAL @ 24" O.C. FOR
WOOD USE #10 x 1-1/2" S.M.S.
OR WOOD SCREWS @ 2" O.C.



SEALANT
#8 x 1/2" S.M.S. (3) PER PAN
(BOTTOM) AND (1) @ RISER
(TOP)
HEADER (SEE NOTE BELOW)
ROOF PANEL

EXISTING HOST STRUCTURE:
WOOD FRAME, MASONRY OR
OTHER CONSTRUCTION

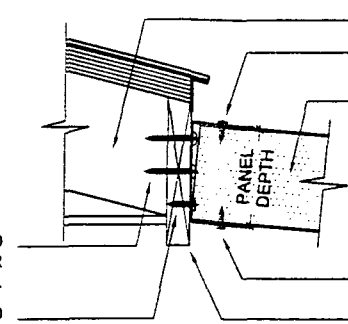
#8 x 1/2" S.M.S. (3) PER PAN
(BOTTOM) AND (1) @ RISER
(TOP)

ROOF PANEL TO WALL DETAIL

NOTES: ROOF PANELS SHALL BE ATTACHED TO THE HEADER WITH (3) EACH #8 x 1/2" LONG CORROSION RESISTANT SHEET METAL SCREWS WITH 1/2" WASHERS. ALL SCREW HEADS SHALL BE CAULKED OR SHALL HAVE NEOPRENE GASKET BETWEEN THE WASHER AND THE PAN. PAN RIBS SHALL RECEIVE (1) EACH #8 x 1/2" SCREW EACH. THE PANS MAY BE ANCHORED THROUGH BOXED PAN WITH (3) EACH #8 x 1" OF THE ABOVE SCREW TYPES AND THE ABOVE SPECIFIED RIZER SCREW. #8 x 9/16" TEK SCREWS ARE ALLOWED AS A SUBSTITUTE FOR #8 x 1/2" S.M.S.

COMPOSITE ROOF ANCHORING DETAILS

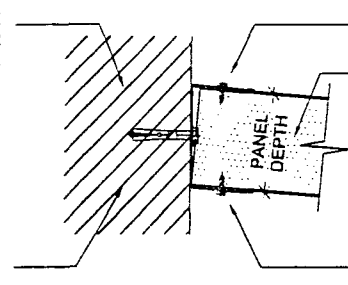
#10 x 1-1/2" S. M. S. OR WOOD
WOOD SCREW (1) PER
RAFTER OR TRUSS TAIL
#10 x 3/4" S. M. S. OR WOOD
SCREW SPACED @ 12" O. C.



EXISTING TRUSS OR RAFTER
#8 x 1/2" S.M.S. SPACED
@ 8" O.C. BOTH SIDES
ROOF PANEL
#8 x 1/2" S.M.S. SPACED
@ 8" O.C. BOTH SIDES
EXISTING FASCIA

ROOF PANEL TO FASCIA DETAIL

FOR MASONRY USE
1/4" x 1-1/4" TAPCON ANCHOR
OR EQUAL @ 24" O.C. FOR
WOOD USE #10 x 1-1/2" S.M.S.
OR WOOD SCREWS
@ 12" O.C.



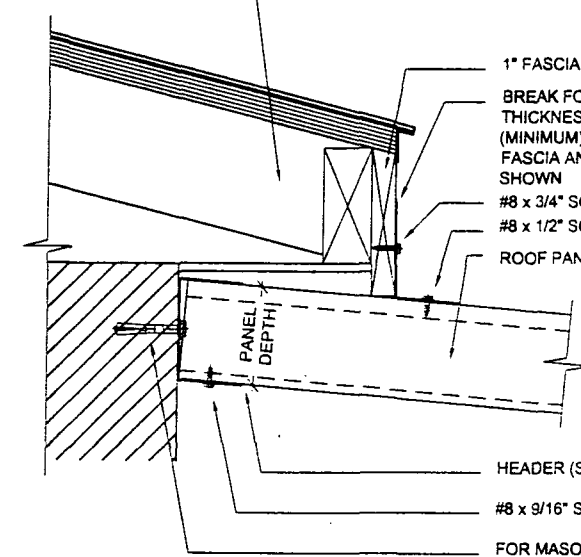
#8 x 1/2" S.M.S. SPACED
@ 8" O.C. BOTH SIDES
ROOF PANEL
#8 x 1/2" S.M.S. SPACED
@ 8" O.C. BOTH SIDES

ROOF PANEL TO WALL DETAIL

NOTES: WOOD STRUCTURES SHOULD CONNECT TO TRUSS BUTTS OR THE SUB-FASCIA FRAMING WHERE POSSIBLE ONLY 15% OF SCREWS CAN BE OUTSIDE THE TRUSS BUTTS. SUB-FASCIA AND THOSE AREAS SHALL HAVE DOUBLE ANCHORS. ALL SCREWS INTO THE HOST STRUCTURE SHALL HAVE MINIMUM 1-1/4" WASHERS OR SHALL BE WASHER HEADED SCREWS.

HEADER INSIDE DIMENSION SHALL BE EQUAL TO PANEL OR PANS "t". THE WALL THICKNESS SHALL BE THE THICKNESS OF THE ALUMINUM PAN OR COMPOSITE PANEL WALL THICKNESS. HEADERS SHALL BE ANCHORED TO THE HOST STRUCTURE WITH ANCHORS APPROPRIATE FOR THE MATERIAL CONNECTED TO. THE ANCHORS DETAILED ABOVE ARE BASED ON A LOAD FROM 120 M.P.H. FOR SBC SECTION 1606 FOR A MAXIMUM POSSIBLE SPAN OF THE ROOF PANEL FROM THE HOST STRUCTURE.

EXISTING HOST STRUCTURE:
WOOD FRAME, MASONRY OR
OTHER CONSTRUCTION



1" FASCIA (MINIMUM)
BREAK FORMED METAL SAME
THICKNESS AS PAN
(MINIMUM) ANCHOR TO
FASCIA AND RIZER OF PAN AS
SHOWN
#8 x 3/4" SCREWS @ 6" O.C.
#8 x 1/2" SCREWS @ 6" O.C.
ROOF PANEL
HEADER (SEE NOTE BELOW)
#8 x 9/16" S.M.S. @ 8" O.C.
FOR MASONRY USE
1/4" x 1-1/4" TAPCON ANCHOR
OR EQUAL @ 24" O.C.
FOR WOOD USE #10 x 1-1/2"
S.M.S. OR WOOD SCREWS
@ 12" O.C.

ALTERNATE ROOF PANEL TO WALL DETAIL

NOTES: ROOF PANELS SHALL BE ATTACHED TO THE HEADER W/ (3) EACH #8 x 1/2" LONG CORROSION RESISTANT S.M.S. W/ 1/2" WASHERS. ALL SCREW HEADS SHALL BE CAULKED OR SHALL HAVE NEOPRENE GASKET BETWEEN THE WASHER AND THE PAN. PAN RIBS SHALL RECEIVE (1) EACH #8 x 1/2" SCREW EACH. THE PANS MAY BE ANCHORED THROUGH BOXED PAN W/ (3) EACH #8 x 1" OF THE ABOVE SCREW TYPES AND THE ABOVE SPECIFIED RIB SCREW.

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CARPORTS, PATIO COVERS & SHEDS
ALUMINUM STRUCTURES MANUAL
2000 EDITION
SECTION 7 DETAILS

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JAN 15 2001

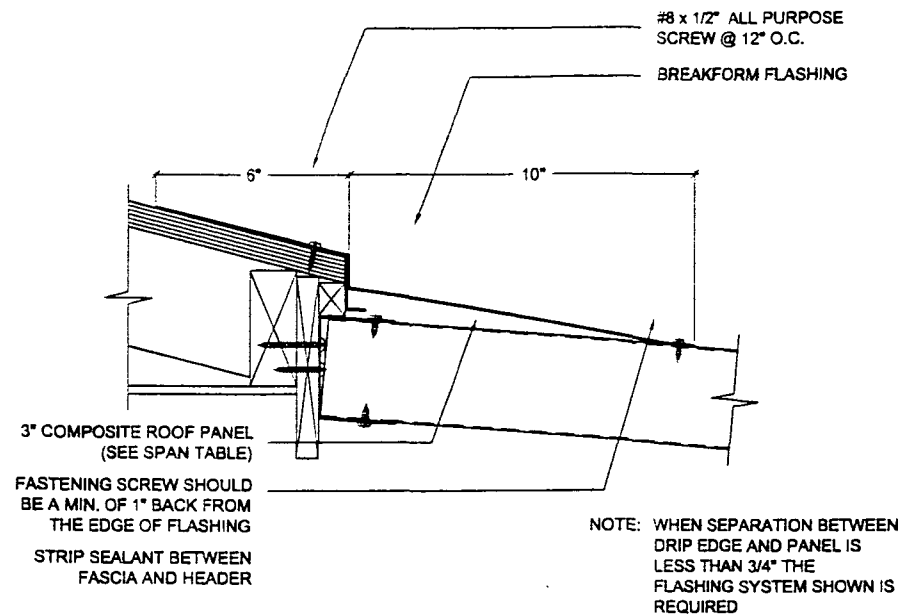
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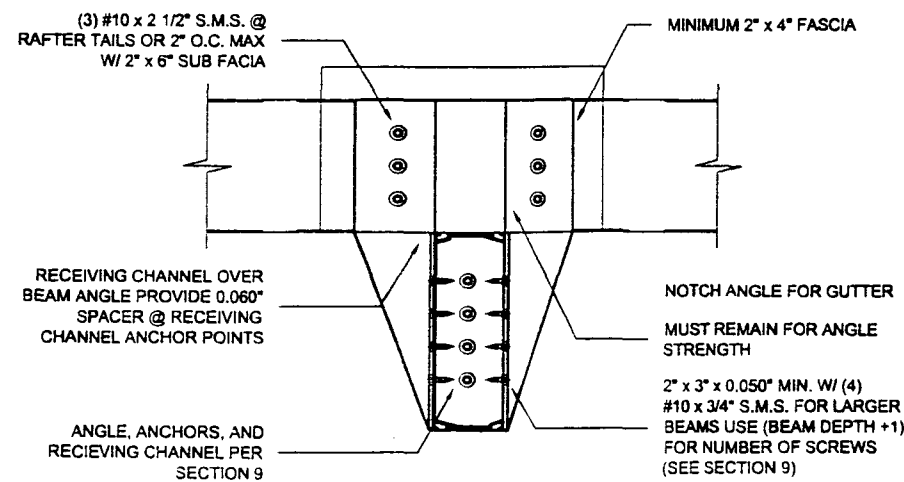
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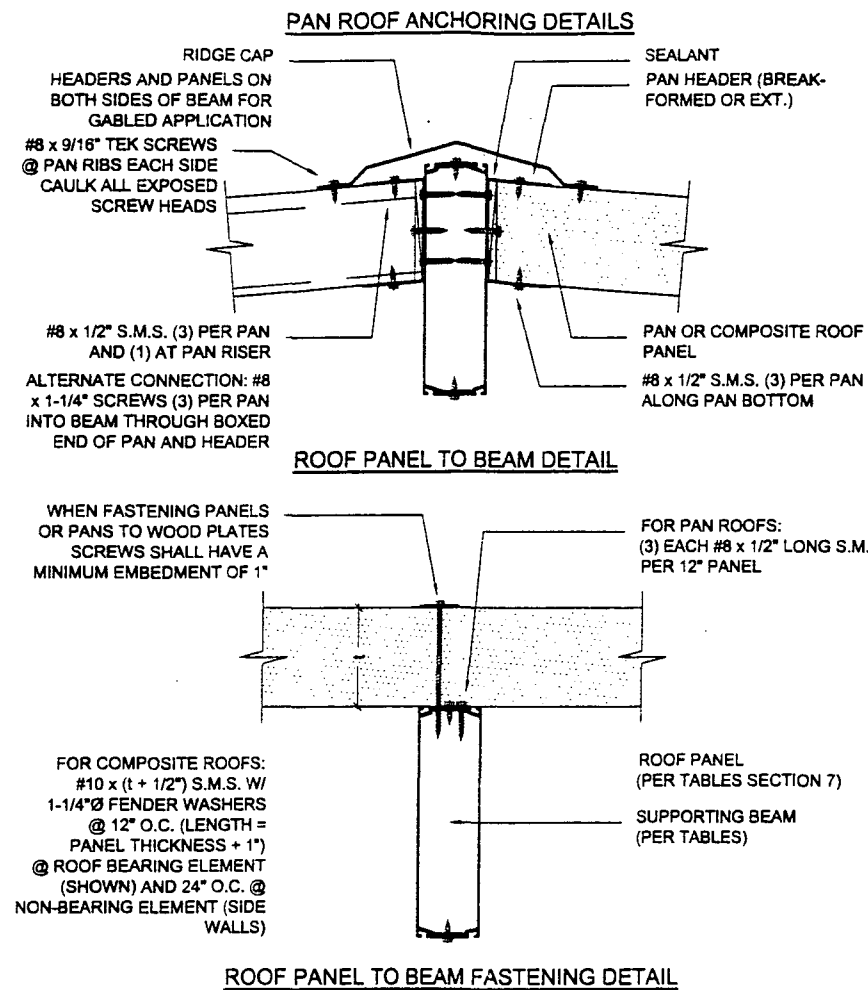


ALTERNATE DETAIL FOR FLASHING ON SHINGLE ROOFS

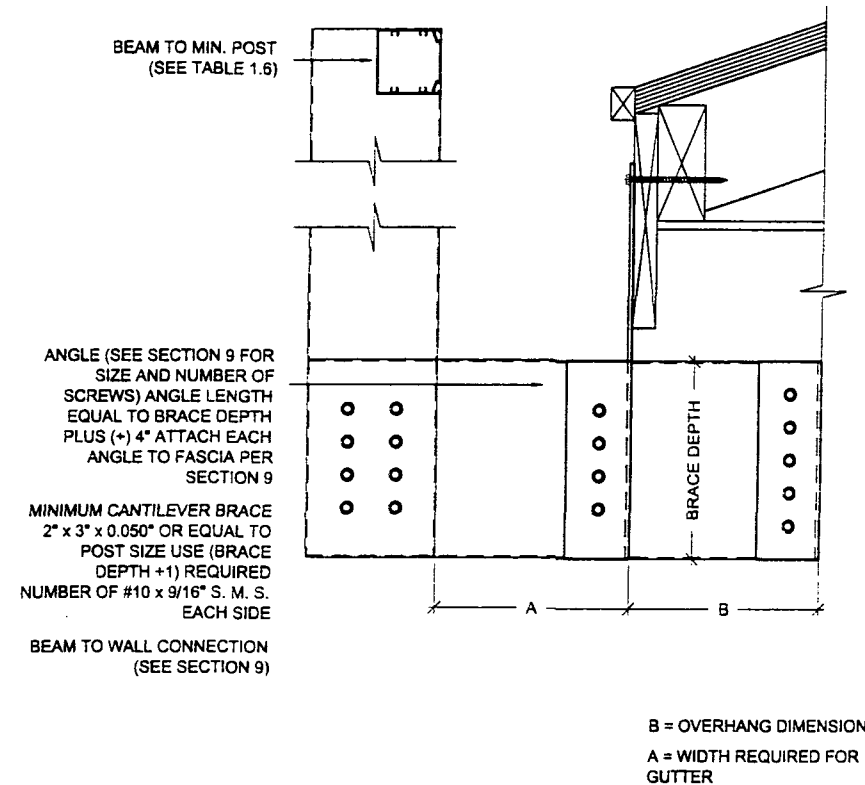
- FLASHING TO BE INSTALLED A MIN. 6" UNDER THE FIRST ROW OF SHINGLES.
- STANDARD COIL FOR FLASHING IS 16" .019 MIL. COIL.
- FIRST ROW OF NAILS WILL HAVE TO BE REMOVED TO INSTALL FLASHING PROPERLY.
- FLASHING WILL BE INSTALLED UNDER THE FELT PAPER WHEN POSSIBLE.
- HEADER WILL BE PUTTY TAPED AND CAULKED EVEN THOUGH FLASHING IS TO BE INSTALLED.
- IF THE DROP FROM THE EDGE OF THE SHINGLE DOWN TO THE TOP OF THE HEADER IS MORE THAN 1" THEN THE DRIP EDGE WILL HAVE TO BE BROKEN TO CONFORM TO THIS DROP.
- WHEN USING FLASHING THE SMALLEST SIZE HEADER AVAILABLE SHOULD BE USED 12" .03 MIL. ROLLFORM OR 8" BREAKFORM IS BEST SUITED FOR HEADER SINCE IT KEEPS THE FLAP LIP OF THE HEADER BACK FROM THE EDGE OF THE FLASHING.
- WHEN SEPARATION BETWEEN DRIP EDGE AND PANEL FLASHING IS REQUIRED 1/2" SEPARATION MINIMUM.
- STRIP SEALANT BETWEEN FASCIA AND HEADER PRIOR TO INSTALLATION.



CANTILEVERED BRACE CONNECTION @ FASCIA (END VIEW)



ROOF PANEL TO BEAM FASTENING DETAIL



CANTILEVERED BRACE CONNECTION TO WALL AND FASCIA DETAIL

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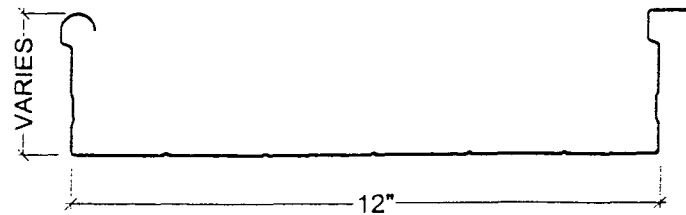
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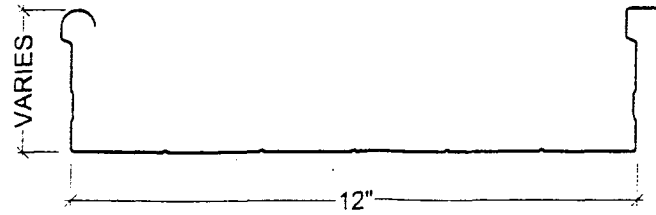
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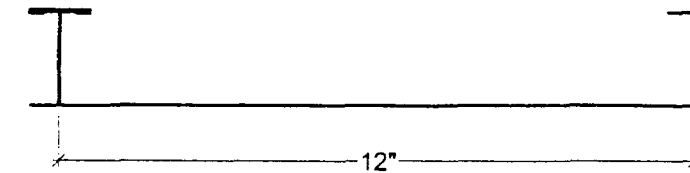
12" WIDE x VARIOUS HEIGHT RISER [INDUSTRY STANDARD] ROOF PANEL

SCALE: 3/16" = 1"



12" WIDE x 3" RISER INTERLOCKING [INDUSTRY STANDARD] ROOF PANEL

SCALE: 3/16" = 1"



INDUSTRY STANDARD CLEATED ROOF PANEL

SCALE: 3/16" = 1"

Table 7.1.1 Allowable Spans for Industry Standard Riser Panels for Various Loads
Aluminum Alloy 3105 H-14 or H-25

1-1/4" x 12" x 0.019" Riser Panels							1-1/4" x 12" x 0.019" Riser Panels						
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition					
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever		
102 M.P.H.	17	4'-11"	6'-1"	6'-2"	2'-4"	102 M.P.H.	30	1'-10"	2'-3"	2'-4"	0'-10"		
110 M.P.H.	20	4'-8"	5'-9"	5'-11"	2'-2"	110 M.P.H.	35	1'-9"	2'-2"	2'-2"	0'-10"		
120 M.P.H.	24	4'-5"	5'-5"	5'-7"	2'-1"	120 M.P.H.	41	1'-8"	2'-0"	2'-1"	0'-9"		
130 M.P.H.	28	4'-2"	5'-2"	5'-3"	1'-11"	130 M.P.H.	48	1'-7"	1'-11"	1'-11"	0'-9"		
140 M.P.H.	32	3'-11"	4'-11"	5'-0"	1'-10"	140 M.P.H.	56	1'-6"	1'-10"	1'-10"	0'-8"		
150 M.P.H.	37	3'-9"	4'-8"	4'-9"	1'-9"	150 M.P.H.	64	1'-5"	1'-9"	1'-9"	0'-8"		

1-1/4" x 12" x 0.026" Riser Panels							1-1/4" x 12" x 0.026" Riser Panels						
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition					
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever		
102 M.P.H.	17	5'-6"	6'-9"	6'-11"	2'-7"	102 M.P.H.	30	4'-6"	5'-7"	5'-9"	2'-2"		
110 M.P.H.	20	5'-2"	6'-5"	6'-7"	2'-5"	110 M.P.H.	35	4'-4"	5'-4"	5'-5"	2'-0"		
120 M.P.H.	24	4'-11"	6'-1"	6'-2"	2'-4"	120 M.P.H.	41	4'-1"	5'-0"	5'-2"	1'-11"		
130 M.P.H.	28	4'-8"	5'-9"	5'-10"	2'-2"	130 M.P.H.	48	3'-10"	4'-9"	4'-10"	1'-10"		
140 M.P.H.	32	4'-5"	5'-6"	5'-7"	2'-1"	140 M.P.H.	56	3'-8"	4'-6"	4'-8"	1'-9"		
150 M.P.H.	37	4'-3"	5'-3"	5'-4"	1'-11"	150 M.P.H.	64	3'-6"	4'-4"	4'-5"	1'-8"		

1-1/4" x 12" x 0.032" Riser Panels							1-1/4" x 12" x 0.032" Riser Panels						
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition					
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever		
102 M.P.H.	17	5'-10"	7'-3"	7'-5"	2'-9"	102 M.P.H.	30	4'-10"	6'-0"	6'-2"	2'-3"		
110 M.P.H.	20	5'-7"	6'-11"	7'-0"	2'-8"	110 M.P.H.	35	4'-8"	5'-9"	5'-10"	2'-2"		
120 M.P.H.	24	5'-3"	6'-6"	6'-8"	2'-6"	120 M.P.H.	41	4'-4"	5'-5"	5'-6"	2'-1"		
130 M.P.H.	28	4'-11"	6'-2"	6'-4"	2'-4"	130 M.P.H.	48	4'-2"	5'-1"	5'-3"	1'-11"		
140 M.P.H.	32	4'-9"	5'-10"	5'-11"	2'-3"	140 M.P.H.	56	3'-11"	4'-10"	4'-11"	1'-10"		
150 M.P.H.	37	4'-6"	5'-7"	5'-9"	2'-2"	150 M.P.H.	64	3'-9"	4'-8"	4'-9"	1'-9"		

Note: Total roof panel width = room width plus wall width plus overhang.

Table 7.1.2 Allowable Spans for Industry Standard Riser Panels for Various Loads
Aluminum Alloy 3105 H-14 or H-25

1-1/2" x 12" x 0.019" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition			
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	6'-1"	7'-5"	7'-7"	2'-10"	102 M.P.H.	30	5'-0"	6'-2"	6'-4"	2'-4"
110 M.P.H.	20	5'-9"	7'-1"	7'-3"	2'-8"	110 M.P.H.	35	4'-9"	5'-11"	6'-0"	2'-3"
120 M.P.H.	24	5'-5"	6'-8"	6'-10"	2'-7"	120 M.P.H.	41	4'-6"	5'-7"	5'-8"	2'-1"
130 M.P.H.	28	5'-2"	6'-4"	6'-6"	2'-5"	130 M.P.H.	48	4'-3"	5'-3"	5'-5"	2'-0"
140 M.P.H.	32	4'-11"	6'-1"	6'-2"	2'-4"	140 M.P.H.	56	4'-1"	5'-0"	5'-1"	1'-11"
150 M.P.H.	37	4'-8"	5'-9"	5'-11"	2'-2"	150 M.P.H.	64	3'-11"	4'-10"	4'-11"	1'-10"

1-1/2" x 12" x 0.026" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition			
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	6'-6"	8'-0"	8'-2"	3'-1"	102 M.P.H.	30	5'-5"	6'-8"	6'-10"	2'-6"
110 M.P.H.	20	6'-2"	7'-8"	7'-10"	2'-11"	110 M.P.H.	35	5'-2"	6'-4"	6'-6"	2'-5"
120 M.P.H.	24	5'-10"	7'-3"	7'-4"	2'-9"	120 M.P.H.	41	4'-10"	5'-11"	6'-1"	2'-3"
130 M.P.H.	28	5'-6"	6'-10"	6'-11"	2'-7"	130 M.P.H.	48	4'-7"	5'-8"	5'-9"	2'-2"
140 M.P.H.	32	5'-3"	6'-6"	6'-8"	2'-6"	140 M.P.H.	56	4'-4"	5'-5"	5'-6"	2'-1"
150 M.P.H.	37	5'-0"	6'-3"	6'-4"	2'-4"	150 M.P.H.	64	4'-2"	5'-2"	5'-3"	1'-11"

1-1/2" x 12" x 0.032" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition			
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	6'-11"	8'-7"	8'-9"	3'-3"	102 M.P.H.	30	5'-8"	7'-2"	7'-3"	2'-9"
110 M.P.H.	20	6'-8"	8'-2"	8'-4"	3'-1"	110 M.P.H.	35	5'-6"	6'-10"	6'-11"	2'-7"
120 M.P.H.	24	6'-3"	7'-9"	7'-11"	2'-11"	120 M.P.H.	41	5'-2"	6'-5"	6'-7"	2'-5"
130 M.P.H.	28	5'-11"	7'-4"	7'-6"	2'-9"	130 M.P.H.	48	4'-11"	6'-1"	6'-2"	2'-4"
140 M.P.H.	32	5'-8"	6'-11"	7'-1"	2'-8"	140 M.P.H.	56	4'-8"	5'-9"	5'-11"	2'-2"
150 M.P.H.	37	5'-5"	6'-8"	6'-10"	2'-6"	150 M.P.H.	64	4'-6"	5'-6"	5'-8"	2'-1"

Note: Total roof panel width = room width plus wall width plus overhang.

Table 7.1.3 Allowable Spans for Industry Standard Riser Panels for Various Loads
Aluminum Alloy 3105 H-14 or H-25

3" x 12" x 0.019" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition			
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	10'-7"	13'-1"	13'-4"	4'-11"	102 M.P.H.	30	8'-10"	10'-10"	11'-1"	4'-2"
110 M.P.H.	20	10'-1"	12'-6"	12'-9"	4'-9"	110 M.P.H.	35	8'-4"	10'-4"	10'-7"	3'-11"
120 M.P.H.	24	9'-6"	11'-9"	12'-0"	4'-6"	120 M.P.H.	41	8'-9"	9'-9"	9'-11"	3'-9"
130 M.P.H.	28	9'-0"	11'-2"	11'-5"	4'-3"	130 M.P.H.	48	7'-6"	9'-3"	9'-5"	3'-6"
140 M.P.H.	32	8'-7"	10'-7"	10'-10"	4'-0"	140 M.P.H.	56	7'-1"	8'-10"	8'-11"	3'-4"
150 M.P.H.	37	8'-2"	10'-2"	10'-4"	3'-10"	150 M.P.H.	64	6'-10"	8'-5"	8'-7"	3'-2"

3" x 12" x 0.026" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition			
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	11'-10"	14'-8"	14'-11"	5'-0"	102 M.P.H.	30	9'-10"	12'-2"	12'-5"	4'-8"
110 M.P.H.	20	11'-4"	13'-11"	14'-3"	5'-0"	110 M.P.H.	35	9'-5"	11'-7"	11'-10"	4'-5"
120 M.P.H.	24	10'-8"	13'-2"	13'-5"	5'-0"	120 M.P.H.	41	8'-10"	10'-11"	11'-2"	4'-2"
130 M.P.H.	28	10'-1"	12'-6"	12'-9"	4'-9"	130 M.P.H.	48	8'-5"	10'-4"	10'-7"	3'-11"
140 M.P.H.	32	9'-7"	11'-11"	12'-1"	4'-6"	140 M.P.H.	56	7'-11"	9'-10"	10'-1"	3'-9"
150 M.P.H.	37	9'-2"	11'-4"	11'-7"	4'-4"	150 M.P.H.	64	7'-7"	9'-5"	9'-7"	3'-7"

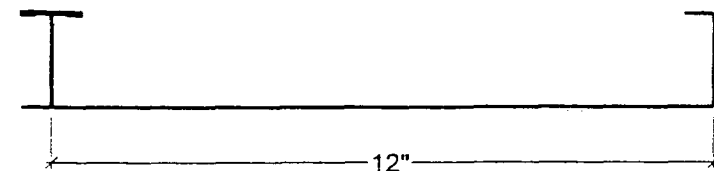
3" x 12" x 0.032" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind Region	Applied Load	Overhang Condition				Wind Region	Applied Load	Overhang Condition			
		1 & 2 Span	3 Span	4 Span	Max Cantilever			1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	12'-9"	15'-9"	16'-1"	5'-0"	102 M.P.H.	30	10'-7"	13'-1"	13'-4"	4'-11"
110 M.P.H.	20	12'-2"	15'-0"	15'-4"	5'-0"	110 M.P.H.	35	10'-1"	12'-5"	12'-8"	4'-9"
120 M.P.H.	24	11'-6"	14'-2"	14'-5"	5'-0"	120 M.P.H.	41	9'-6"	11'-9"	11'-11"	4'-6"
130 M.P.H.	28	10'-10"	13'-5"	13'-8"	5'-0"	130 M.P.H.	48	9'-0"	11'-2"	11'-4"	4'-3"
140 M.P.H.	32	10'-4"	12'-9"	13'-0"	4'-10"	140 M.P.H.	56	8'-7"	10'-7"	10'-10"	4'-0"
150 M.P.H.	37	9'-10"	12'-2"	12'-5"	4'-8"	150 M.P.H.	64	8'-2"	10'-1"	10'-4"	3'-10"

Note: Total roof panel width = room width plus wall width plus overhang.

Table 7.1.4 Allowable Spans for Industry Standard Riser Panels for Various Loads
Aluminum Alloy 3105 H-28

3" x 12" x 0.019" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind	Applied	Overhang Condition				Wind	Applied	Overhang Condition			
Region	Load	1 & 2 Span	3 Span	4 Span	Max Cantilever	Region	Load	1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	11'-5"	14'-1"	14'-4"	5'-0"	102 M.P.H.	30	9'-5"	11'-8"	11'-11"	4'-5"
110 M.P.H.	20	10'-10"	13'-5"	13'-8"	5'-0"	110 M.P.H.	35	8'-11"	11'-1"	11'-4"	4'-3"
120 M.P.H.	24	10'-3"	12'-8"	12'-11"	4'-10"	120 M.P.H.	41	8'-6"	10'-6"	10'-8"	3'-11"
130 M.P.H.	28	9'-8"	11'-11"	12'-3"	4'-7"	130 M.P.H.	48	8'-1"	9'-11"	10'-2"	3'-9"
140 M.P.H.	32	9'-3"	11'-5"	11'-7"	4'-4"	140 M.P.H.	56	7'-8"	9'-5"	9'-8"	3'-7"
150 M.P.H.	37	8'-10"	10'-11"	11'-1"	4'-2"	150 M.P.H.	64	7'-4"	9'-0"	9'-3"	3'-5"

3" x 12" x 0.026" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind	Applied	Overhang Condition				Wind	Applied	Overhang Condition			
Region	Load	1 & 2 Span	3 Span	4 Span	Max Cantilever	Region	Load	1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	12'-9"	15'-9"	16'-1"	5'-0"	102 M.P.H.	30	10'-7"	13'-1"	13'-4"	4'-11"
110 M.P.H.	20	12'-2"	14'-11"	15'-3"	5'-0"	110 M.P.H.	35	10'-1"	12'-5"	12'-8"	4'-9"
120 M.P.H.	24	11'-5"	14'-2"	14'-5"	5'-0"	120 M.P.H.	41	9'-6"	11'-9"	11'-11"	4'-6"
130 M.P.H.	28	10'-10"	13'-5"	13'-8"	5'-0"	130 M.P.H.	48	9'-0"	11'-2"	11'-4"	4'-3"
140 M.P.H.	32	10'-4"	12'-9"	13'-0"	4'-10"	140 M.P.H.	56	8'-7"	10'-7"	10'-10"	4'-0"
150 M.P.H.	37	9'-10"	12'-2"	12'-5"	4'-8"	150 M.P.H.	64	8'-2"	10'-1"	10'-4"	3'-10"
3" x 12" x 0.032" Riser Panels											
Open Buildings						Enclosed Buildings					
Wind	Applied	Overhang Condition				Wind	Applied	Overhang Condition			
Region	Load	1 & 2 Span	3 Span	4 Span	Max Cantilever	Region	Load	1 & 2 Span	3 Span	4 Span	Max Cantilever
102 M.P.H.	17	13'-8"	16'-11"	17'-3"	5'-0"	102 M.P.H.	30	11'-4"	14'-1"	14'-4"	5'-0"
110 M.P.H.	20	13'-0"	16'-1"	16'-5"	5'-0"	110 M.P.H.	35	10'-10"	13'-4"	13'-8"	5'-0"
120 M.P.H.	24	12'-4"	15'-2"	15'-6"	5'-0"	120 M.P.H.	41	10'-3"	12'-7"	12'-10"	4'-10"
130 M.P.H.	28	11'-8"	14'-5"	14'-8"	5'-0"	130 M.P.H.	48	9'-8"	11'-11"	12'-2"	4'-7"
140 M.P.H.	32	11'-1"	13'-9"	13'-11"	5'-0"	140 M.P.H.	56	9'-2"	11'-5"	11'-7"	4'-4"
150 M.P.H.	37	10'-7"	13'-1"	13'-4"	4'-11"	150 M.P.H.	64	8'-10"	10'-10"	11'-1"	4'-2"



INDUSTRY STANDARD CLEATED ROOF PANEL

SCALE: 3/16" = 1"

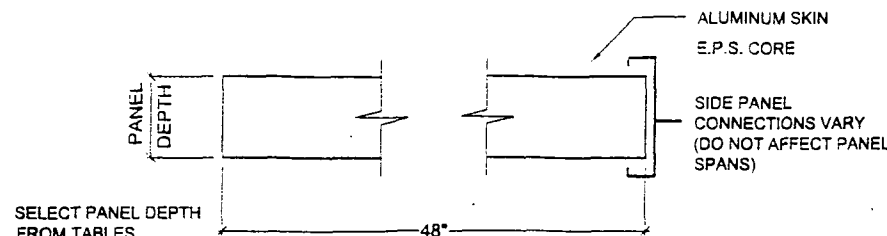
Table 7.1.5 Allowable Spans for Industry Standard Cleated Panels for Various Loads
Aluminum Alloy 3105 H-14 or H-25

1-3/4" x 12" x 0.019" Cleated Panels									
Open Buildings					Enclosed Buildings				
Wind Region	Applied Load	Overhang Condition			Wind Region	Applied Load	Overhang Condition		
		1 & 2 Span	3 Span	4 Span			1 & 2 Span	3 Span	4 Span
102 M.P.H.	17	7'-5"	9'-3"	9'-6"	102 M.P.H.	39	6'-3"	7'-8"	7'-10"
110 M.P.H.	20	7'-2"	8'-10"	9'-0"	110 M.P.H.	35	5'-11"	7'-4"	7'-6"
120 M.P.H.	24	6'-9"	8'-4"	8'-6"	120 M.P.H.	41	5'-7"	6'-11"	7'-1"
130 M.P.H.	28	6'-5"	7'-11"	8'-1"	130 M.P.H.	48	5'-4"	6'-7"	6'-8"
140 M.P.H.	32	6'-1"	7'-5"	7'-8"	140 M.P.H.	56	5'-1"	6'-3"	6'-4"
150 M.P.H.	37	5'-10"	7'-2"	7'-4"	150 M.P.H.	64	4'-10"	5'-11"	6'-1"

1-3/4" x 12" x 0.026" Cleated Panels									
Open Buildings					Enclosed Buildings				
Wind Region	Applied Load	Overhang Condition			Wind Region	Applied Load	Overhang Condition		
		1 & 2 Span	3 Span	4 Span			1 & 2 Span	3 Span	4 Span
102 M.P.H.	17	8'-5"	10'-5"	10'-7"	102 M.P.H.	39	6'-11"	8'-8"	8'-10"
110 M.P.H.	20	8'-0"	9'-11"	10'-1"	110 M.P.H.	35	6'-8"	8'-3"	8'-5"
120 M.P.H.	24	7'-7"	9'-4"	9'-6"	120 M.P.H.	41	6'-3"	7'-9"	7'-11"
130 M.P.H.	28	7'-2"	8'-10"	9'-0"	130 M.P.H.	48	5'-11"	7'-4"	7'-6"
140 M.P.H.	32	6'-10"	8'-5"	8'-7"	140 M.P.H.	56	5'-8"	6'-11"	7'-2"
150 M.P.H.	37	6'-6"	8'-1"	8'-3"	150 M.P.H.	64	5'-5"	6'-8"	6'-10"

1-3/4" x 12" x 0.032" Cleated Panels									
Open Buildings					Enclosed Buildings				
Wind Region	Applied Load	Overhang Condition			Wind Region	Applied Load	Overhang Condition		
		1 & 2 Span	3 Span	4 Span			1 & 2 Span	3 Span	4 Span
102 M.P.H.	17	9'-1"	11'-2"	11'-5"	102 M.P.H.	39	7'-6"	9'-4"	9'-6"
110 M.P.H.	20	8'-8"	10'-8"	10'-11"	110 M.P.H.	35	7'-2"	8'-10"	9'-0"
120 M.P.H.	24	8'-2"	10'-1"	10'-3"	120 M.P.H.	41	6'-9"	8'-4"	8'-6"
130 M.P.H.	28	7'-9"	9'-7"	9'-9"	130 M.P.H.	48	6'-5"	7'-11"	8'-1"
140 M.P.H.	32	7'-4"	9'-1"	9'-3"	140 M.P.H.	56	6'-1"	7'-6"	7'-8"
150 M.P.H.	37	7'-0"	8'-8"	8'-10"	150 M.P.H.	64	5'-10"	7'-2"	7'-4"

Note: Total roof panel width = room width plus wall width plus overhang.



COMPOSITE ROOF PANEL (INDUSTRY STANDARD)

SCALE: 3/16" = 1"

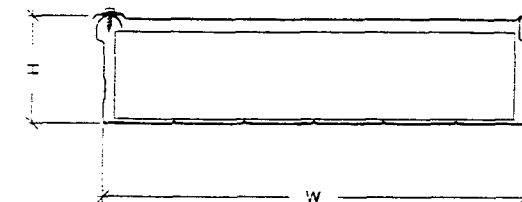
Table 7.1.6 Allowable Spans for Industry Standard Composite Roof Panels for Various Loads
Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam

3" x 48" x 0.019" Panels													
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition					Wind Region	Applied Load	Overhang Condition				
		NONE	1'-0"	2'-0"	3'-0"	4'-0"			NONE	1'-0"	2'-0"	3'-0"	4'-0"
102 M.P.H.	17	11'-10"	12'-0"	12'-6"	13'-4"	14'-4"	102 M.P.H.	30	8'-11"	9'-2"	9'-10"	10'-10"	12'-4"
110 M.P.H.	20	11'-0"	11'-2"	11'-9"	12'-7"	13'-7"	110 M.P.H.	35	8'-4"	8'-7"	9'-3"	10'-3"	11'-11"
120 M.P.H.	24	10'-1"	10'-4"	10'-10"	11'-9"	12'-11"	120 M.P.H.	41	7'-8"	7'-11"	8'-7"	9'-9"	11'-1"
130 M.P.H.	28	9'-4"	9'-6"	10'-2"	11'-1"	12'-3"	130 M.P.H.	48	7'-1"	7'-4"	8'-1"	9'-3"	10'-4"
140 M.P.H.	32	8'-8"	8'-11"	9'-6"	10'-6"	11'-9"	140 M.P.H.	56	6'-6"	6'-10"	7'-8"	8'-10"	10'-4"
150 M.P.H.	37	8'-1"	8'-4"	9'-0"	10'-1"	11'-4"	150 M.P.H.	64	6'-1"	6'-5"	7'-4"	8'-7"	10'-1"

3" x 48" x 0.024" Panels													
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition					Wind Region	Applied Load	Overhang Condition				
		NONE	1'-0"	2'-0"	3'-0"	4'-0"			NONE	1'-0"	2'-0"	3'-0"	4'-0"
102 M.P.H.	17	13'-3"	13'-5"	13'-10"	14'-7"	15'-6"	102 M.P.H.	30	10'-0"	10'-3"	10'-10"	11'-8"	12'-11"
110 M.P.H.	20	12'-4"	12'-6"	12'-11"	13'-8"	14'-8"	110 M.P.H.	35	9'-4"	9'-6"	10'-2"	11'-1"	12'-8"
120 M.P.H.	24	11'-4"	11'-6"	11'-11"	12'-9"	13'-10"	120 M.P.H.	41	8'-6"	8'-9"	9'-5"	10'-5"	11'-12"
130 M.P.H.	28	10'-5"	10'-7"	11'-2"	12'-0"	13'-2"	130 M.P.H.	48	7'-11"	8'-2"	8'-10"	9'-11"	11'-3"
140 M.P.H.	32	9'-8"	9'-11"	10'-6"	11'-5"	12'-7"	140 M.P.H.	56	7'-4"	7'-7"	8'-4"	9'-5"	10'-10"
150 M.P.H.	37	9'-0"	9'-3"	9'-11"	10'-10"	12'-1"	150 M.P.H.	64	6'-10"	7'-1"	7'-11"	9'-1"	10'-6"

3" x 48" x 0.030" Panels													
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition					Wind Region	Applied Load	Overhang Condition				
		NONE	1'-0"	2'-0"	3'-0"	4'-0"			NONE	1'-0"	2'-0"	3'-0"	4'-0"
102 M.P.H.	17	15'-8"	15'-10"	16'-2"	16'-10"	17'-7"	102 M.P.H.	30	11'-10"	12'-0"	12'-6"	13'-4"	14'-4"
110 M.P.H.	20	14'-7"	14'-9"	15'-1"	15'-9"	16'-8"	110 M.P.H.	35	11'-0"	11'-2"	11'-9"	12'-7"	13'-7"
120 M.P.H.	24	13'-4"	13'-6"	13'-11"	14'-8"	15'-7"	120 M.P.H.	41	10'-1"	10'-4"	10'-10"	11'-9"	12'-1"
130 M.P.H.	28	12'-4"	12'-6"	12'-11"	13'-9"	14'-8"	130 M.P.H.	48	9'-4"	9'-6"	10'-2"	11'-1"	12'-3"
140 M.P.H.	32	11'-5"	11'-7"	12'-1"	12'-11"	13'-11"	140 M.P.H.	56	8'-8"	8'-11"	9'-6"	10'-6"	11'-9"
150 M.P.H.	37	10'-8"	10'-10"	11'-5"	12'-3"	13'-4"	150 M.P.H.	64	8'-1"	8'-4"	9'-0"	10'-1"	11'-4"

Note: Total roof panel width = room width plus wall width plus overhang.



TYPICAL INSULATED PANEL

SCALE: 3/16" = 1"

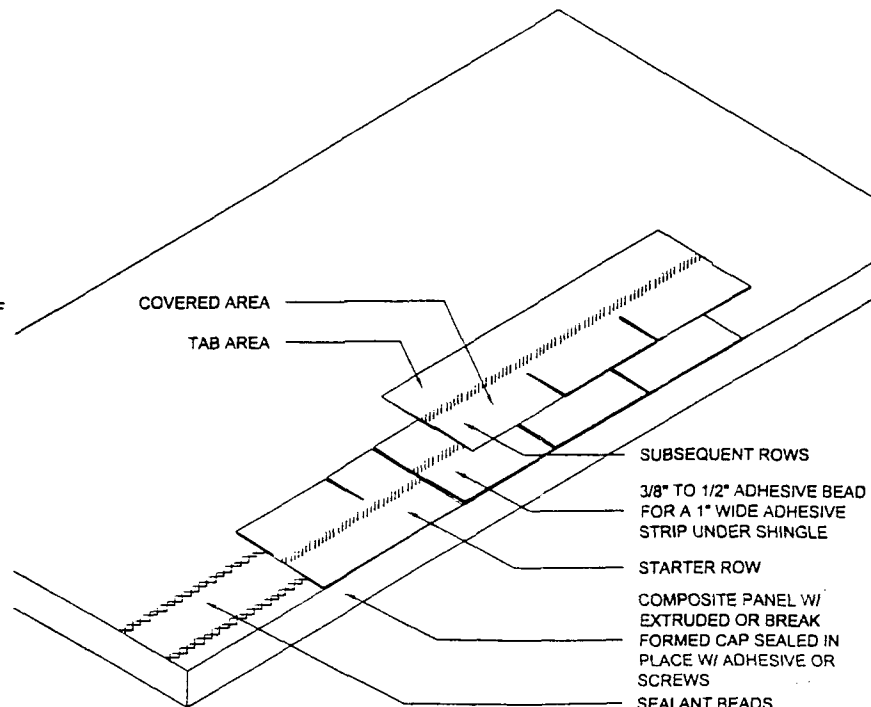
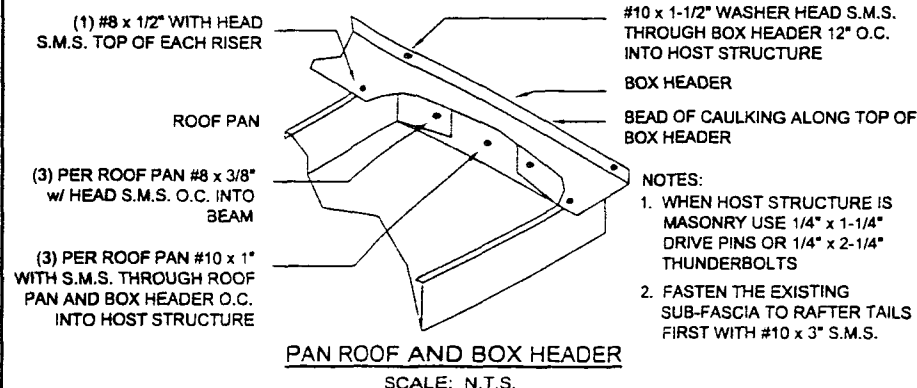
Table 7.1.7 Allowable Spans for Industry Standard Composite Roof Panels for Various Loads
Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam

4" x 48" x 0.019" Panels													
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition					Wind Region	Applied Load	Overhang Condition				
		NONE	1'-0"	2'-0"	3'-0"	4'-0"			NONE	1'-0"	2'-0"	3'-0"	4'-0"
102 M.P.H.	17	13'-11"	14'-2"	14'-7"	15'-3"	16'-1"	102 M.P.H.	30	10'-7"	10'-9"	11'-4"	12'-2"	13'-0"
110 M.P.H.	20	12'-11"	13'-2"	13'-7"	14'-4"	15'-3"	110 M.P.H.	35	9'-10"	10'-0"	10'-7"	11'-6"	12'-4"
120 M.P.H.	24	11'-11"	12'-1"	12'-7"	13'-4"	14'-4"	120 M.P.H.	41	8'-11"	9'-3"	9'-10"	10'-10"	12'-2"
130 M.P.H.	28	10'-11"	11'-2"	11'-8"	12'-6"	13'-7"	130 M.P.H.	48	8'-4"	8'-7"	9'-3"	10'-3"	11'-4"
140 M.P.H.	32	10'-2"	10'-5"	10'-11"	11'-10"	12'-11"	140 M.P.H.	56	7'-8"	7'-11"	8'-8"	9'-9"	11'-1"
150 M.P.H.	37	9'-6"	9'-9"	10'-4"	11'-3"	12'-5"	150 M.P.H.	64	7'-2"	7'-6"	8'-3"	9'-4"	10'-7"

4" x 48" x 0.024" Panels													
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition					Wind Region	Applied Load	Overhang Condition				
		NONE	1'-0"	2'-0"	3'-0"	4'-0"			NONE	1'-0"	2'-0"	3'-0"	4'-0"
102 M.P.H.	17	15'-4"	15'-5"	15'-10"	16'-5"	17'-3"	102 M.P.H.	30	11'-9"	12'-3"	13'-1"	14'-1"	14'-10"
110 M.P.H.	20	14'-3"	14'-4"	14'-9"	15'-5"	16'-4"	110 M.P.H.	35	10'-11"	11'-6"	12'-4"	13'-5"	13'-8"
120 M.P.H.	24	13'-0"	13'-2"	13'-8"	14'-4"	15'-4"	120 M.P.H.	41	10'-1"	10'-8"	11'-6"	12'-8"	13'-5"
130 M.P.H.	28	12'-0"	12'-2"	12'-8"	13'-5"	14'-5"	130 M.P.H.	48	9'-4"	9'-11"	10'-11"	12'-1"	12'-10"
140 M.P.H.	32	11'-2"	11'-4"	11'-10"	12'-8"	13'-9"	140 M.P.H.	56	8'-8"	9'-4"	10'-4"	11'-8"	11'-8"
150 M.P.H.	37	10'-5"	10'-7"	11'-2"	12'-0"	13'-2"	150 M.P.H.	64	8'-2"	8'-10"	9'-11"	11'-3"	11'-3"

4" x 48" x 0.030" Panels													
Open Buildings						Enclosed Buildings							
Wind Region	Applied Load	Overhang Condition					Wind Region	Applied Load	Overhang Condition				
		NONE	1'-0"	2'-0"	3'-0"	4'-0"			NONE	1'-0"	2'-0"	3'-0"	4'-0"
102 M.P.H.	17	17'-8"	17'-10"	18'-2"	18'-8"	19'-5"	102 M.P.H.	30	13'-4"	13'-6"	13'-11"	14'-8"	15'-7"
110 M.P.H.	20	16'-5"	16'-7"	16'-11"	17'-6"	18'-3"	110 M.P.H.	35	12'-5"	12'-7"	13'-1"	13'-10"	14'-9"
120 M.P.H.	24	15'-1"	15'-2"	15'-7"	16'-3"	17'-1"	120 M.P.H.	41	11'-5"	11'-7"	12'-1"	12'-10"	13'-1"
130 M.P.H.	28	13'-11"	14'-1"	14'-6"	15'-2"	16'-0"	130 M.P.H.	48	10'-6"	10'-8"	11'-3"	12'-1"	13'-2"
140 M.P.H.	32	12'-11"	13'-1"	13'-6"	14'-3"	15'-2"	140 M.P.H.	56	9'-9"	9'-11"	10'-6"	11'-5"	12'-1"
150 M.P.H.	37	12'-0"	12'-2"	12'-8"	13'-5"	14'-5"	150 M.P.H.	64	9'-1"	9'-4"	9'-11"	10'-11"	12'-7"

Note: Total roof panel width = room width plus wall width plus overhang.



COMPOSITE ROOF PANEL WITH SHINGLE FINISH DETAIL

RECEIVED

MAY 15 2001

OFFICE OF BEACHES
& COASTAL SYSTEMS

ATTACH SHINGLES TO COMPOSITE ROOF PANELS WITH INDUSTRIAL ADHESIVE.
APPLY ADHESIVE IN A CONTINUOUS BEAD 3/8" TO 1/2" DIAMETER SO THAT THERE IS A 1" WIDE STRIP OF ADHESIVE WHEN THE SHINGLE IS PUT IN PLACE.

FOR AREAS UP TO 120 M.P.H. WIND ZONE:

- 1) STARTER ROWS OF SHINGLES SHALL HAVE ONE STRIP OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AND ONE UNDER THE SHINGLE AT MID TAB AREA. STARTER SHINGLE ROW INSTALLED WITH THE TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.
- 2) SUBSEQUENT ROWS OF SHINGLES INSTALLED WITH THE TABS FACING IN THE DOWNWARD DIRECTION OF THE ROOF SLOPE WITH ONE STRIP OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA.

FOR AREAS ABOVE 120 M.P.H. WIND ZONE:

- 1) STARTER ROWS OF SHINGLES SHALL HAVE TWO STRIPS OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AND TWO STRIPS AT MID TAB AREA. SHINGLE ROW INSTALLED WITH THE TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.
- 2) SUBSEQUENT ROWS OF SHINGLES INSTALLED PER PREVIOUS SPECIFICATION WITH TWO STRIPS OF ADHESIVE AT MID COVERED AREA.

* ADHESIVE: CHEM REX - PL PREMIUM 948 URETHANE ADHESIVE OR OSI - RF140

MINIMUM ROOF SLOPE: 2" IN 12"

CARPORTS, PATIO COVERS & SHEDS
ALUMINUM STRUCTURES MANUAL
2000 EDITION
SECTION 7 TABLES

Lawrence E. Bennett, P.E.
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 4388 SOUTH DAYTONA, FL 32121
TELEPHONE (904) 767-4774
FAX (904) 767-6556

JAN 25 2001

SHEET

8D

OF 8

2 1/2" W-PAN .028 GAUGE
MIN SLOPE 1/4" PER FT.

2x8 S.M.B.

4x4 125
POST

8'0"

1'8" x 1'8" x 2' CONCRETE
2500 P.S.I.

1" S. REBAR

New Foundation

Post & Beam DETAIL
SCALE 1/2" = 1'0"

officer

NORTH ELEVATION
SCALE 3/16" = 1'0"

40'0"

8'0"

4x4 Post

2x8 S.M.B.

2 1/2" W-PAN

2x8 S.M.B.

20'0"

10'0"

12'

20'0"

4x4 POST

2x8 S.M.B.

ELEVATION
SCALE 3/16" = 1'0"

PLAN VIEW
SCALE 3/16" = 1'0"

10'0"

SHADED AREA
SQ. FT. FOR
ISOLATED FOOTING

RECEIVED

JAN 02 2001

OFFICE OF BEACHES
& COASTAL SYSTEMS

JOB

ST-1384

**Gingerich
Glass & Aluminum Inc.**

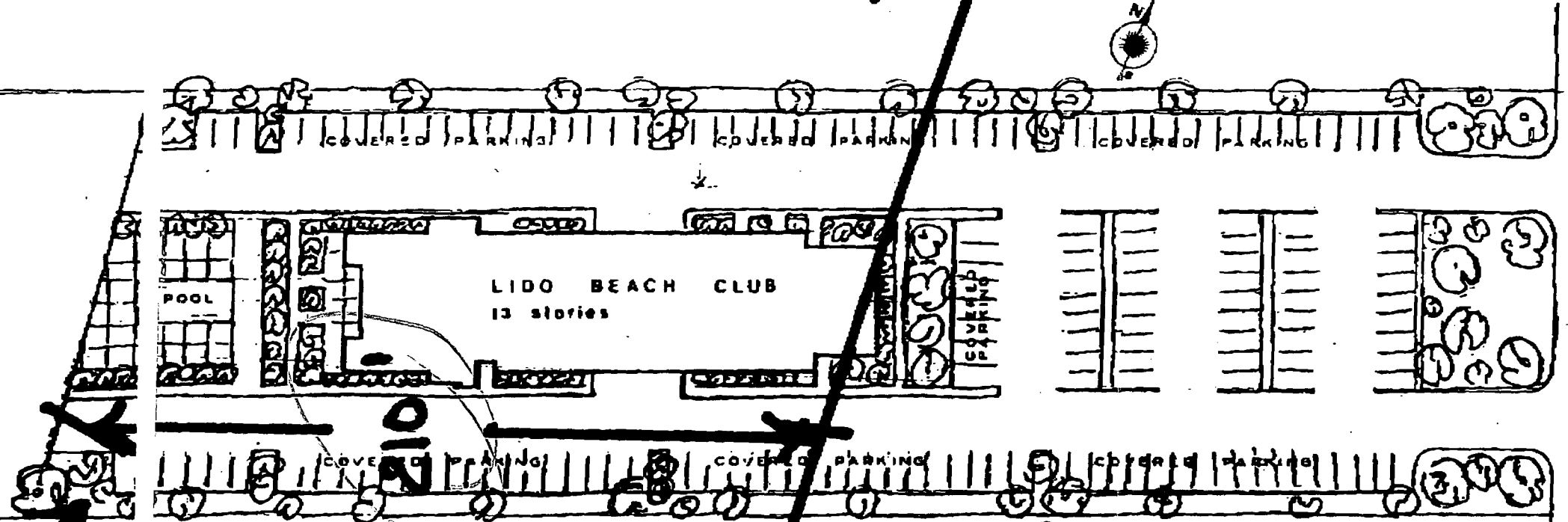
KARL K. KANDEL
371-7295
377-4121 FAX

237 Interstate Blvd.
Sarasota, Florida 34240

Don't
be Reopened

GULF OF MEXICO

BEACH



SITE PLAN

Southside

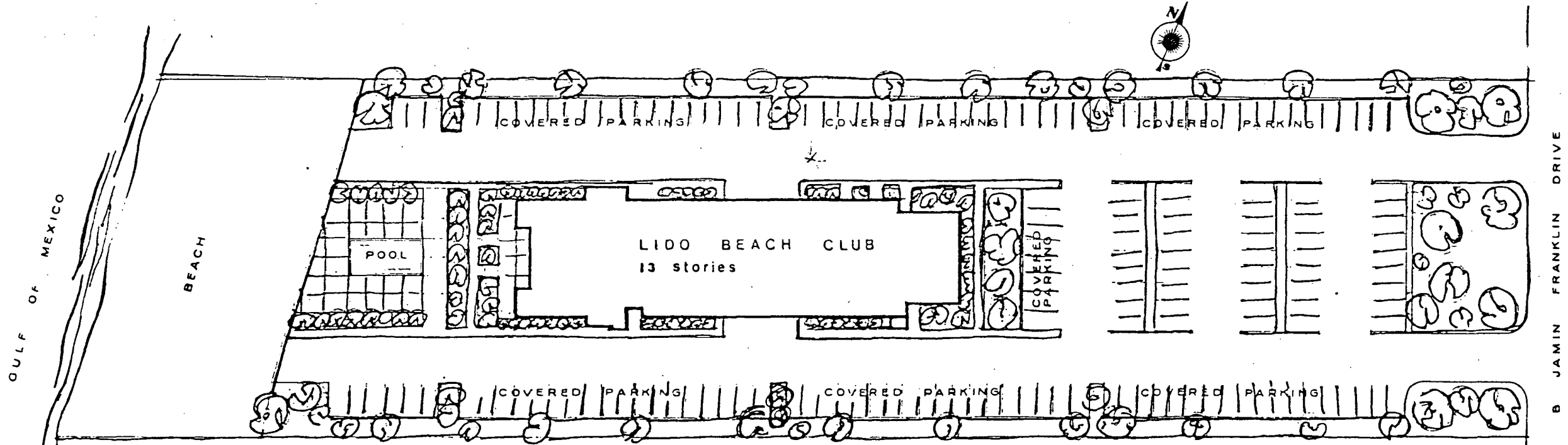
North

Coastal
Construction
LINE

Lido
Beach
Club
LIDO KEY, SARASOTA, FLORIDA

SE 1/4 MIN. FRANKLIN DRIVE

ST-1384



SITE PLAN

Lido
Beach
Club

LIDO KEY, SARASOTA, FLORIDA

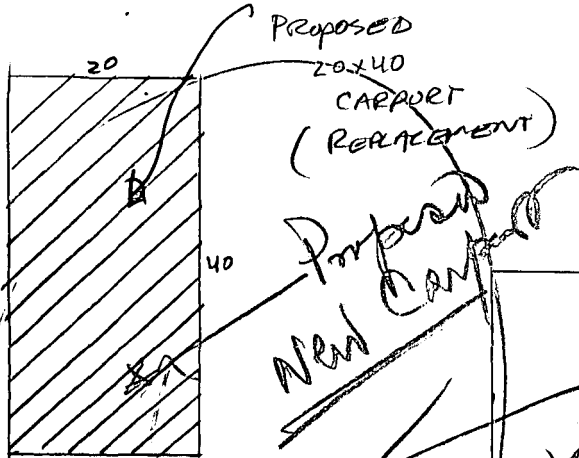
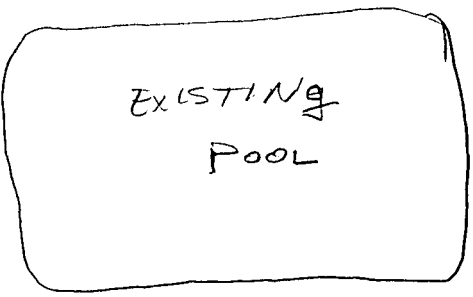
RECEIVED

JAN 02 2001

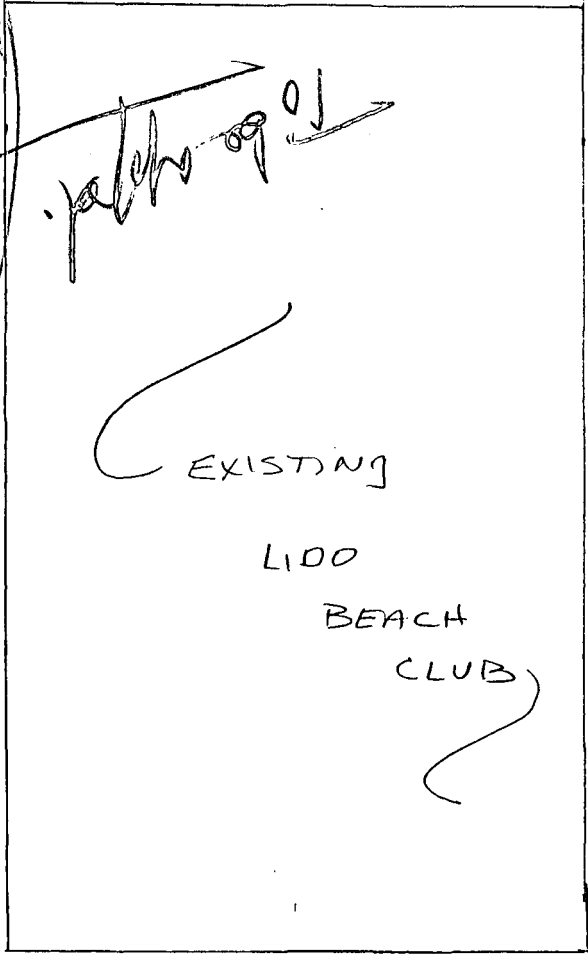
OFFICE OF BEACHES
& COASTAL SYSTEMS

BEACH

Handwritten signature



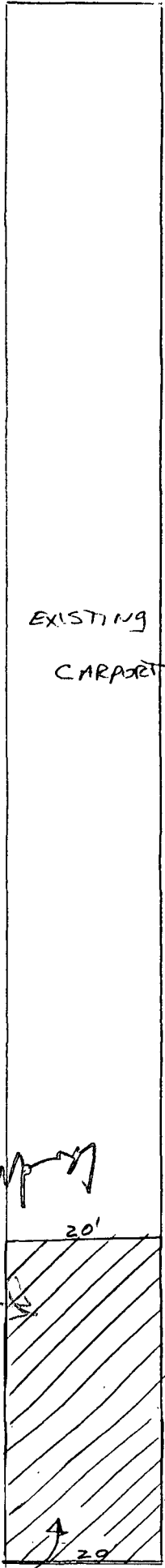
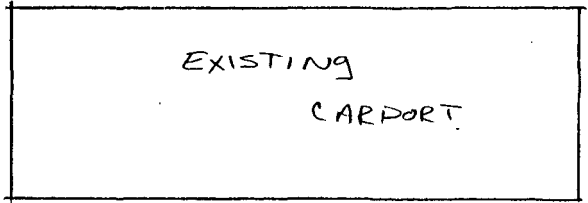
Proposed New Carpet



Second lido club

Back lido

EXISTING CARPET



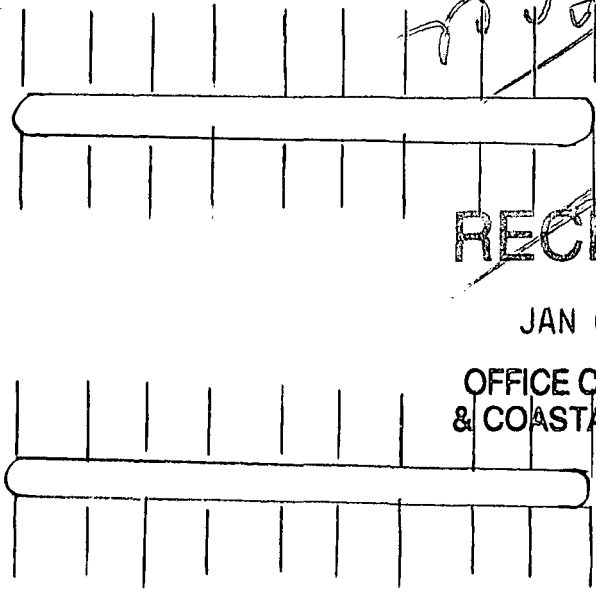
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JAN 02 2001

OFFICE OF BEACHES & COASTAL SYSTEMS

SITE PLAN

ST-1384



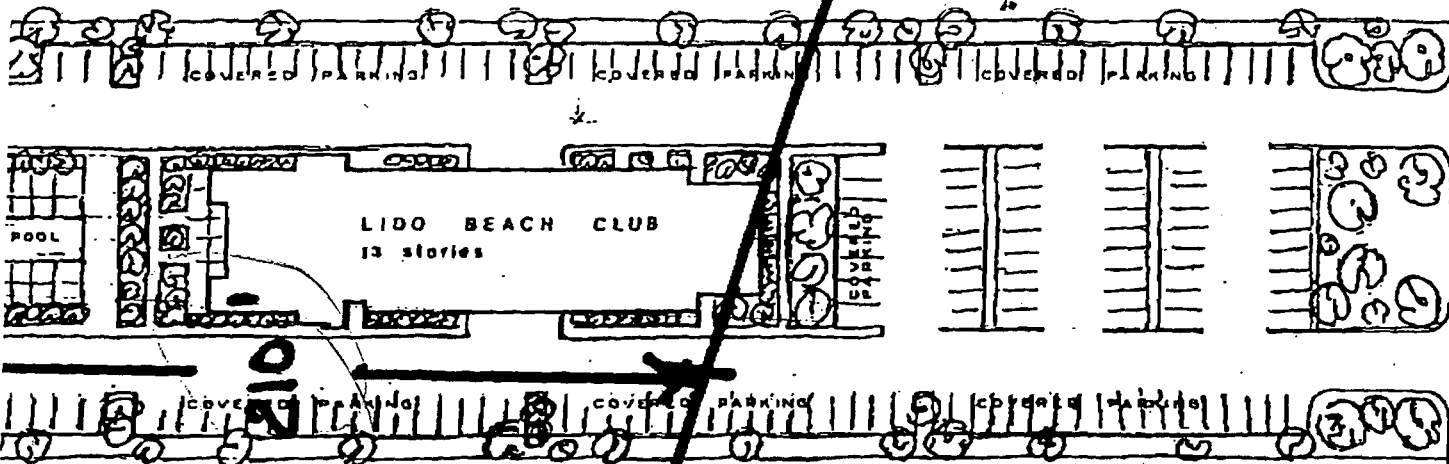
BEN FRANKLIN DRIVE

PROPOSED 20x40 CARPET (REPLACEMENT)

2nd
be revised

GULF OF MEXICO

BEACH



SITE PLAN

Southside

North

COASTAL
CONSTRUCTION
LINE

Handwritten signature

Lido
Beach
Club

LIDO KEY, SARASOTA, FL

SEE MIN FRANKLIN DRIVE

Post-It Fax Note

7671

Date	1.24.01	# of pages	4
To	DR SWAMY		
From	Bill DUNN		
Co/Dept.	Co.		
Phone #	Phone # 941-365-3454		
Fax #	Fax # 941-365-3625		

RECEIVED
STATE OF FLORIDA
FLORIDA DEPARTMENT OF TRANSPORTATION
DATE OF PHOTOGRAPH JAN 23, 2001
DRAWN BY
CHECKED BY

[Handwritten signature]

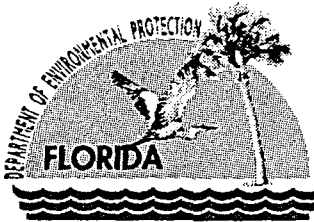
Cable To be Fixed

Lido Beach Club

ST-1384

SD - 100' S
R-40 in
#ST Only





Jeb Bush
Governor

Department of Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

David B. Struhs
Secretary

April 19, 2001

Lido Beach Club Association, Inc.
c/o Brenda S. Callahan, Manager
1212 Ben Franklin Drive
Sarasota, Florida 34236

Dear Ms. Callahan:

NOTICE TO PROCEED WITHHELD

PERMIT NUMBER: ST-1384

PERMITTEE NAME: Lido Beach Club Association, Inc.

Your request for a permit pursuant to Section 161.053, Florida Statutes, for construction or other activities seaward of the coastal construction control line, has been approved by the Department of Environmental Protection. However, construction may not commence until after the permittee has received a notice to proceed in accordance with Special Permit Condition 1, and the permittee complies with any preconstruction requirements described in Special Permit Condition 2.

Please read the permit and permit conditions including both the Standard Permit Conditions and any Special Permit Conditions closely before starting construction. Standard Permit Conditions 1(q), 1(r), and 1(s) pertain to written reports which must be submitted to the Department of Environmental Protection under the signature and seal of a professional engineer, architect, or land surveyor (as appropriate) at specified times. Forms for use in preparation of these reports are enclosed. Make sufficient copies of the periodic report form to provide the required reports. The periodic reports are due in the office of the Office of Beaches and Coastal Systems on a monthly basis on the last working day of each month. No progress reports are required until such time as construction activities have started.

The permit will expire April 19, 2001. Upon receipt of a written request signed by the permittee or authorized agent, the Department will consider extending the permit for up to but no more than one additional year. You must apply for a new permit for completion of any work not accomplished under the original permit. Although you may apply for a new permit, there is no assurance that such new permit for the same construction or activities would be approved.

Any person whose substantial interests are affected by any decision of the Department on the application has the right to request an administrative hearing in accordance with the provisions of Sections 120.569 and 120.57 of the Florida Statutes. Should you desire an administrative hearing, your request must comply with the provisions of Rule 28-106.201 of the Florida Administrative Code, as indicated below. Send requests for hearings to the Department of Environmental Protection, Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399. The Department must receive the request within twenty-one days after your receipt of this notice.

"More Protection, Less Process"

Printed on recycled paper.

Brenda S. Callahan, Manager
April 19, 2001
Page 2

When the Department receives an adequate and timely filed request for hearing, the Department will request the assignment of an administrative law judge. Once an administrative law judge is requested, the referring agency will take no further action with respect to the proceeding except as a party litigant, as long as the Division of Administrative Hearings has jurisdiction over the formal proceeding.

Rule 28-106.201(2) of the Florida Administrative Code requires that a petition or request for hearing contain the following information:

(1) The name and address of each agency affected and each agency's file or identification number, if known;

(2) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(3) A statement of when and how the petitioner received notice of the Department's action;

(4) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(5) A concise statement of ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the Department's proposed action;

(6) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's proposed action; and

(7) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's proposed action.

A person may request an extension of time to petition for an administrative hearing. The person filing the request for extension must do so within the time limits for filing a petition described above and serve all parties with the request. The request must state why an extension is needed. The Department will grant an extension only when good cause is shown.

If a petition or request for extension of time is filed, further order of the Department becomes necessary to effectuate this notice. Accordingly, the Department's final action may be different from the position taken by it in this notice. Actions undertaken by you under this permit, pending the lapse of time allowed for the filing of such a request for hearing, may be subject to modification, removal, or restoration.

Failure to petition within the allowed time frame constitutes waiver of any right that such a person has to request a hearing under Section 120.57 of the Florida Statutes and to participate as a party to the proceeding. If a legally sufficient petition for hearing is not timely received this notice constitutes final agency action. When this order becomes final, any party to the order has the right to seek judicial review under Section 120.57 of the Florida Statutes and Rule 9.030(b)(1) and 9.110 of the Florida Rules of Appellate Procedure by filing a notice of appeal with the Department of Environmental Protection, Office of General Counsel, Department Clerk, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399, and with the appropriate district court of appeal within thirty days after this final order is filed with the Department Clerk. The notice filed with the district court must be

accompanied by the filing fee specified in Subsection 35.22(3) of the Florida Statutes. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed under Rule 28-106.205, Florida Administrative Code.

A person whose substantial interests are affected by the Department's proposed agency action may choose to pursue mediation as an alternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth below.

A person may pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have the authority to settle or recommend settlement, and
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

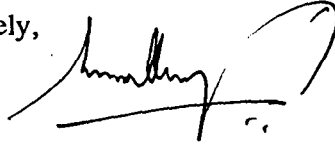
As provided in Section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interest will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such set forth above, and must therefore file their petitions within twenty-one days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

Brenda S. Callahan, Manager
April 19, 2001
Page 4

You are advised that notice of this agency's final action on this permit has been given to other interested parties. They have twenty-one days from receipt of the notice to exercise any rights they may have under Chapter 120, Florida Statutes. Actions undertaken by you under this permit, during this period may be subject to modification, removal or restoration.

The authorized work is strictly limited to that described on the enclosed final order. Please direct any questions pertaining to this permit to me by letter at the above address, or by telephone at 850/487-4475.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Muthuswamy', with a large, stylized flourish at the end.

S. Muthuswamy, Ph.D., Engineer
Office of Beaches and Coastal Systems

SM/kbc
Enclosures

cc: Permit Information Center
Steve West, Field Inspector
City of Sarasota Building Official

STANDARD PERMIT CONDITIONS

(1) The following standard permit conditions shall apply to this permit unless waived by the Department or modified by special permit condition: In the event of a conflict between a standard condition and a special condition the special condition shall prevail.

(a) The permittee shall carry out the construction or activity for which the permit was granted in accordance with the plans and specifications which were approved by the Department as part of the permit. Any deviation therefrom, without written approval from the Bureau, shall be grounds for suspension of the work and revocation of the permit pursuant to Section 120.60(7), Florida Statutes, and may result in assessment of civil fines or issuance of an order to alter or remove the unauthorized structure, or both. No other construction or activities shall be conducted. No modifications to project size, location, or structural design are authorized without prior written approval from the Department. A copy of the permit, notice to proceed, approved plans, any modifications, time extensions, or permit transfers shall be conspicuously displayed at the project site.

(b) The permittee shall conduct the construction or activity authorized under the permit using extreme care to prevent any adverse impacts to the beach and dune system, marine turtles, nests and their habitat or adjacent property and structures.

(c) The permittee shall allow any duly authorized member of the staff to enter upon the premises associated with the project authorized by the permit for the purpose of ascertaining compliance with the terms of the permit and with the rules of the Department, until all construction or activities authorized or required in the permit have been completed, and all reports, certifications, or other documentation of project performance are received and accepted by the Department.

(d) The permittee shall hold and save the State of Florida, the Department, its officers and employees, harmless from any damage, no matter how occasioned and no matter what the amount, to persons or property which might result from the construction or activity authorized under the permit and from any and all claims and judgements resulting from such damage.

(e) The permittee shall allow the Department to use all records, notes, monitoring data and other information relating to construction or any activity under the permit, which are submitted, for any purpose it may deem necessary or convenient, except where such use is otherwise specifically forbidden by law.

(f) Construction traffic shall not operate and building materials shall not be stored on vegetated areas seaward of the control line, unless specifically authorized by the permit. If, in the opinion of the Bureau staff, this requirement is not being met, positive control measures shall be provided by the permittee at the direction of the Bureau staff. Such measures may include temporary fencing, designated access roads, adjustment of construction sequence, or other requirements.

(g) The permittee shall not disturb existing beach and dune topography and vegetation except as expressly authorized in the permit. Before the project is considered complete, any disturbed topography or vegetation shall be restored as prescribed in the permit, with suitable fill material or revegetated with appropriate beach and dune vegetation.

(h) All fill material placed seaward of the control line shall be sand which is similar to that already existing on the site in both coloration and grain size. All such fill material shall be free of construction debris, rocks, clay, or other foreign matter, shall be obtained from a source landward of the coastal construction control line or from a source authorized pursuant to Section 161.041, Florida Statutes and shall, in general, not contain greater than 5 percent fines (passing the #200 sieve) or gravel exclusive of shell material (retained by the #4 sieve) and be free of coarse gravel or cobbles.

(i) If surplus sand fill results from any approved excavation seaward of the control line, such material shall be distributed seaward of the control line on the site, as directed by the Bureau staff, unless otherwise specifically authorized by the permit.

(j) Any native salt resistant vegetation destroyed during construction shall be replaced with plants of the same species or, by authorization of the Bureau, with other native salt-resistant vegetation suitable for beach and dune stabilization. Unless otherwise specifically authorized by the staff, all plants installed in beach and coastal areas - whether to replace vegetation displaced, damaged, or destroyed during construction or otherwise - shall be of species indigenous to Florida beaches and dunes, such as sea oats, sea grape, saw palmetto, panic grass, saltmeadow hay cordgrass, seashore saltgrass, and railroad vine.

(k) All topographic restoration and revegetation work is subject to approval and acceptance by the Department staff, and the status of restoration shall be reported as part of the final certification of the actual work performed.

(l) If not specifically authorized elsewhere in this permit, no operation, transportation or storage of equipment or materials is authorized seaward of the dune crest or rigid coastal structure during the marine turtle nesting season. The marine turtle nesting season is May 1 through October 31 in all counties except Brevard, Indian River, St. Lucie, Martin, Palm Beach and Broward counties where leatherback turtle nesting occurs during the period of March 1 through October 31.

(m) If not specifically authorized elsewhere in this permit, no temporary lighting of the construction area is authorized at any time during the marine turtle nesting season and no additional permanent exterior lighting is authorized.

(n) All windows and glass doors visible from any point on the beach must be tinted to a transmittance value (light transmission from inside to outside) of 45% or less through the use of tinted glass or window film.

(o) This permit has been issued to a specified property owner and is not valid for any other person unless formally transferred. An applicant requesting transfer of a permit shall sign two copies of the permit transfer agreement form, agreeing to comply with all terms and conditions of the permit, and return both copies to the Bureau. No work may proceed under the permit until a copy of the transfer agreement approved by the Department has been received by the new owner. A copy of the transfer agreement shall be displayed on the construction site along with the permit. An expired permit may not be transferred.

(p) The permittee shall immediately inform the Bureau of any change of mailing address of the permittee and authorized agent until all requirements of the permit are met.

(q) For permits for major structures or activities the permittee shall provide periodic progress reports certified by an engineer or architect (as appropriate due to the nature of the project) registered in the State of Florida on the form "Periodic Report" - DEP Form 73-111 (Revised 1-85) to the Bureau. The reports shall be submitted on a monthly basis beginning at the start of construction and continuing until all work has been completed. The engineer or architect shall certify that all construction as of the date of each report has been performed in compliance with the plans and the project description approved as a part of the permit, and with all conditions of the permit, or shall specify any deviation from the plans, project description or conditions of the permit. The report shall also state the percent of completion of the project and each major individual component. Permits for minor structures or activities do not require submittal of periodic reports unless required by special permit condition.

(r) For permits involving habitable major structures, all construction on the permitted structure shall stop when the foundation pilings have been installed. At that time the permittee shall provide a certification by a professional land surveyor registered pursuant to Chapter 472, Florida Statutes, that all aspects of the location, and all elevations of the foundation construction are in accordance with both the plans and the project description approved by the Department of Environmental Protection as part of the permit. This certification shall be on a form "Foundation Location Certification" - DEP Form 73-114 (Revised 1-85), hereby incorporated by reference. The foundation location certification shall be based upon such surveys performed in accordance with Chapter 472, Florida Statutes, as are necessary to determine the actual elevations,

configuration, and the dimension relationship of the installed pilings to the control line. This certification shall also specify the actual pile tip and pile head elevations and any grade beam or cap elevations. Any deviation from the foundation location and elevations as permitted shall be clearly noted and described in detail as part of the certification. Construction shall stop and the certification shall be submitted and accepted prior to proceeding with further vertical construction for each and every phase of a multiphase project where construction above the foundation of one or more structures occurs prior to completion of all foundation work. The Bureau shall notify the permittee of approval or rejection of the certification within seven (7) working days after staff receipt of the certification. All survey information upon which the certification is based shall be made available to the Bureau upon request. Permits for repairs or additions to existing structures with nonconforming foundations are exempt from this condition.

(s) For major structures the permittee shall provide the Department with a final report certified by an engineer or architect registered in the State of Florida within thirty (30) days following completion of the work. This certification shall state that: all locations and elevations specified by the permit have been verified; that all major structures are specifically constructed in accordance with Section 62B-33.007(3)(b), Florida Administrative Code; other construction and activities authorized by the permit have been performed in compliance with the plans and project description approved as a part of the permit, and all conditions of the permit; or shall describe any deviations from the approved plans, project description or permit conditions and any work not performed. Such certification shall not relieve the permittee of the provisions of (1)(a) above. If none of the permitted work is performed, the permittee shall inform the Department in writing no later than 30 days following expiration of the permit. The final certification shall be on the form "Final Certification" DEP Form 73-115B (Revised 1-85), or on the form entitled "Final Certification for Emergency Work" - DEP Form 73-116 (Revised 1-85).

(2) The permittee shall not commence any excavation, construction or other physical activity on, or encroaching on, the sovereignty land of Florida seaward of the mean high-water line, or, if established, the erosion control line, until the permittee has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use.

(3) The permittee shall obtain any applicable licenses or permits which may be required by Federal, state, county or municipal law.

General: Copies of any forms referenced above may be obtained by writing to the Department of Environmental Protection, Bureau of Beaches and Coastal Systems, 3900 Commonwealth Boulevard, Mail Station 310, Tallahassee, Florida 32399, or by telephoning (850)487-4475.

Foundation Location and Elevation Certification

Permit Number: ST-1384

Permittee Name: Lido Beach Club Association, Inc.

Mail to: Office of Beaches and Coastal Systems
Florida Department of Environmental Protection
3900 Commonwealth Boulevard, MS 300
Tallahassee, Florida 32399-3000

This is to certify that all aspects of the location and all elevations of the foundation as constructed are in accordance with both the plans and the project description approved by the Department of Environmental Protection as part of the permit. The foundation location and elevation certification is based upon such surveys as are necessary to determine the actual location, pile tip, pile cap, grade beam, structural and top of pile/pile notch elevations (where applicable), which are specified below for each dwelling:

- (1) Distance the seaward pile placed measured perpendicular to the the control line (each dwelling). _____ feet
- (2) Pile tip elevation: _____ feet (NGVD)
- (3) Top of pile cap and grade beam elevation (if applicable). _____ feet (NGVD)
- (4) Structural elevation (bottom of lowest structural member supporting the first habitable floor): _____ feet (NGVD)
OR
Top of pile/pile notch _____ feet (NGVD)

Registered Surveyor's Signature/Seal

Date

Registered Surveyor's name:
State of Florida Registration Number: _____

Note: Any deviations from the approved plans and specifications shall be stated as an exception to this certification. No further vertical construction on the permitted structure is authorized until the Office of Beaches and Coastal Systems has notified the permittee, in writing, that this foundation certification has been approved.

FINAL CERTIFICATION

MAIL TO: Office of Beaches and Coastal Systems
Florida Department of Environmental Protection
Mail Station 300
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

This is to certify that work under permit number **ST-1384** for construction or other activities seaward of the coastal construction control line pursuant to Section 161.053, Florida Statutes, which was granted by the **Florida Department of Environmental Protection**, to **Lido Beach Club Association, Inc.**, was inspected by the undersigned and was found to be acceptable and satisfactory in accordance with the approved plans and project description, and with all conditions of the permit. All permitted construction or activities have been completed, and no unpermitted construction or activities have occurred. Location and elevations specified by the permit and approved plans have been verified and found to be correct, and topography and vegetation have been either preserved or restored as required by the permit.

(Seal)

Signature

Date

Registered Engineer or Architect
State of Florida Registration Number _____

FOR WORK INCLUDING: Construction of a carport replacement.

NOTE: Any deviations from the permit, and any portions of the permitted work not actually performed, shall be noted and described in detail as an exception to this certification.

DEP Form 73-115B (Rev. 1-85)

File Number: ST-1384

Owner: Lido Beach Club Association, Inc.

Agent: None

PERIODIC PROGRESS REPORT

1. If construction has occurred, please describe its maximum extent in the space provided below: *(If no work at all has been performed under the permit, please report "Not Started". If construction or other authorized activity has begun, but no progress has been made since the last report, please report "No Progress.")*

CONSTRUCTION TO DATE INCLUDES:

2. All work performed as of this date is described above and is hereby certified to be in compliance with both the plans and the project description approved by the Department of Environmental Protection as part of the permit, and with all conditions of the permit. Locations and elevations of all construction as of this date have been specifically verified as applicable and have been found to comply with the project description, approved plans, and conditions of the permit. No unpermitted construction or activities have occurred. *(Any exceptions to the statement above are to be described and explained under Item Number 1 above, as part of this report. The explanation should include a statement of the reason that construction or activities not in accordance with the permit have occurred.)*

The property owner or authorized agent may sign these progress reports until such time as construction starts, and after any period in which no construction was performed. However, the reports must be signed by an engineer or architect registered in the state of Florida following each period in which construction has occurred.

Signature

Date

Florida Registration Number
and Seal (If Applicable)



DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF BEACHES AND COASTAL SYSTEMS
PERMITTED PROJECT FINAL SITE INSPECTION REPORT

Permittee Name: <i>Lido Beach Club Association, Inc.</i>	Permit File Number: <i>ST-1387</i>
---	---------------------------------------

Are all items of the project description complete? ☐ No ☐ Yes

If NO: ☐ Not Started ☐ Partial Completion (specify which parts below):

If YES above or if the project is partially completed, is the project in compliance in:

LOCATION	☐ NO ☐ YES	<u>SPECIAL CONDITIONS:</u>
DIMENSIONS	☐ NO ☐ YES	# ☐ NO ☐ YES
DESIGN and MATERIALS	☐ NO ☐ YES	# ☐ NO ☐ YES
TOPOGRAPHY	☐ NO ☐ YES	# ☐ NO ☐ YES
VEGETATION	☐ NO ☐ YES	# ☐ NO ☐ YES
CONNECTION DETAILS	☐ NO ☐ YES	# ☐ NO ☐ YES
GENERAL CONDITIONS	☐ NO ☐ YES	# ☐ NO ☐ YES

Provide details for any NO answer above, and any other inspection comments:

Approved plans were available during project work: ☐ No ☐ Yes

Inspector Signature _____ Date _____

FOR TALLAHASSEE OFFICE USE (Routing, Review, and Comments):



Jeb Bush
Governor

Department of Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

David B. Struhs
Secretary

April 19, 2001

Lido Surf N Sand
1100 Ben Franklin Drive
Sarasota, Florida 34236

Dear Sir or Madame:

Public Notice

File Number: ST-1384

Permittee: Lido Beach Club Association, Inc.

You are hereby notified that the Department of Environmental Protection has issued the enclosed coastal construction control line permit pursuant to Section 161.053, Florida Statutes.

Any person whose substantial interests are affected by any decision of the Department on the application has the right to request an administrative hearing in accordance with the provisions of Sections 120.569 and 120.57 of the Florida Statutes. Should you desire an administrative hearing, your request must comply with the provisions of Rule 28-106.201 of the Florida Administrative Code, as indicated below. Send requests for hearings to the Department of Environmental Protection, Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399. The Department must receive the request within twenty-one days after your receipt of this notice.

When the Department receives an adequate and timely filed request for hearing, the Department will request the assignment of an administrative law judge. Once an administrative law judge is requested, the referring agency will take no further action with respect to the proceeding except as a party litigant, as long as the Division of Administrative Hearings has jurisdiction over the formal proceeding.

Rule 28-106.201(2) of the Florida Administrative Code requires that a petition or request for hearing contain the following information:

- (1) The name and address of each agency affected and each agency's file or identification number, if known;
- (2) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (3) A statement of when and how the petitioner received notice of the Department's action;
- (4) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (5) A concise statement of ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the Department's proposed action;
- (6) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's proposed action; and

"More Protection, Less Process"

Printed on recycled paper.

(7) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's proposed action.

A person may request an extension of time to petition for an administrative hearing. The person filing the request for extension must do so within the time limits for filing a petition described above and serve all parties with the request. The request must state why an extension is needed. The Department will grant an extension only when good cause is shown.

If a petition or request for extension of time is filed, further order of the Department becomes necessary to effectuate this notice. Accordingly, the Department's final action may be different from the position taken by it in this notice. Actions undertaken by you under this permit, pending the lapse of time allowed for the filing of such a request for hearing, may be subject to modification, removal, or restoration.

Failure to petition within the allowed time frame constitutes waiver of any right that such a person has to request a hearing under Section 120.57 of the Florida Statutes and to participate as a party to the proceeding. If a legally sufficient petition for hearing is not timely received this notice constitutes final agency action. When this order becomes final, any party to the order has the right to seek judicial review under Section 120.57 of the Florida Statutes and Rule 9.030(b)(1) and 9.110 of the Florida Rules of Appellate Procedure by filing a notice of appeal with the Department of Environmental Protection, Office of General Counsel, Department Clerk, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399, and with the appropriate district court of appeal within thirty days after this final order is filed with the Department Clerk. The notice filed with the district court must be accompanied by the filing fee specified in Subsection 35.22(3) of the Florida Statutes. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed under Rule 28-106.205, Florida Administrative Code.

A person whose substantial interests are affected by the Department's proposed agency action may choose to pursue mediation as an alternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth below.

A person may pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

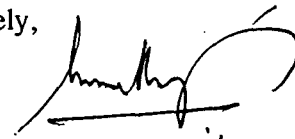
- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
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- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

As provided in Section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interest will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such set forth above, and must therefore file their petitions within twenty-one days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

Please direct any questions pertaining to this permit to me by letter at the above address, or by telephone at 850/487-4475.

Sincerely,



S. Muthuswamy, Ph.D., Engineer
Office of Beaches and Coastal Systems

SM/kbc
Enclosure



Jeb Bush
Governor

Department of Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

David B. Struhs
Secretary

April 19, 2001

Owner
1237 Ben Franklin Drive
Sarasota, Florida 34236

Dear Sir or Madame:

Public Notice

File Number: ST-1384

Permittee: Lido Beach Club Association, Inc.

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Failure to petition within the allowed time frame constitutes waiver of any right that such a person has to request a hearing under Section 120.57 of the Florida Statutes and to participate as a party to the proceeding. If a legally sufficient petition for hearing is not timely received this notice constitutes final agency action. When this order becomes final, any party to the order has the right to seek judicial review under Section 120.57 of the Florida Statutes and Rule 9.030(b)(1) and 9.110 of the Florida Rules of Appellate Procedure by filing a notice of appeal with the Department of Environmental Protection, Office of General Counsel, Department Clerk, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399, and with the appropriate district court of appeal within thirty days after this final order is filed with the Department Clerk. The notice filed with the district court must be accompanied by the filing fee specified in Subsection 35.22(3) of the Florida Statutes. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed under Rule 28-106.205, Florida Administrative Code.

A person whose substantial interests are affected by the Department's proposed agency action may choose to pursue mediation as an alternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth below.

A person may pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;

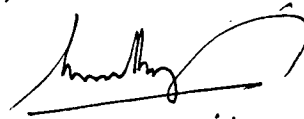
Owner
April 19, 2001
Page 3

- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have the authority to settle or recommend settlement, and
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

As provided in Section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interest will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such set forth above, and must therefore file their petitions within twenty-one days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

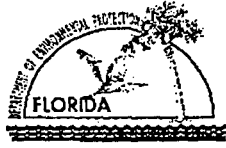
Please direct any questions pertaining to this permit to me by letter at the above address, or by telephone at 850/487-4475.

Sincerely,



S. Muthuswamy, Ph.D., Engineer
Office of Beaches and Coastal Systems

SM/kbc
Enclosure



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Office of Beaches and Coastal Systems
3900 Commonwealth Blvd. - Mail Station 300
Tallahassee, Florida 32399-3000
(850) 488-3180

PERMIT NUMBER: ST-1384

PERMITTEE

Lido Beach Club Association, Inc.
c/o Brenda S. Callahan, Manager
1212 Ben Franklin Drive
Sarasota, Florida 34236

**PERMIT FOR CONSTRUCTION OR OTHER ACTIVITIES
PURSUANT TO SECTION 161.053, FLORIDA STATUTES**

FINAL ORDER

FINDINGS OF FACT: An application for authorization to conduct the activities seaward of the coastal construction control line which are indicated in the project description, was filed by the applicant/permittee named herein on January 2, 2001, and was determined to be complete pursuant to rule on April 16, 2001. The proposed project is to be located landward of the 30-year erosion projection and the existing line of construction established by major structures in the immediate area.

CONCLUSIONS OF LAW: After considering the merits of the proposal and any written objections from affected persons, the Department finds that upon compliance with the permit conditions, the activities indicated in the project description are of such a nature that they will result in no significant adverse impacts to the beach/dune areas or to adjacent properties; that the work is not expected to adversely impact nesting sea turtles, their hatchlings, or their habitat; that the work is expendable in nature and/or is appropriately designed in accordance with Rule 62B-33.007, Florida Administrative Code; and that it is an activity or type of construction which the designee of the Director of the Office of Beaches and Coastal Systems has authority to approve or deny pursuant to Deputy Secretary Directive "Delegation of Authority", effective July 1, 1999. Based on the foregoing considerations, the designee approves the application; authorizes construction and/or activities at the location indicated below in strict accordance with the project description, the approved plans (if any) and the Standard Permit Conditions which are attached and are by this reference incorporated herein, and any additional conditions shown below, pursuant to Subsection 161.053(5), Florida Statutes.

EXPIRATION DATE: April 19, 2004

LOCATION: Between approximately 50 feet and 100 feet south of the Department of Environmental Protection's reference monument R-40, in Sarasota County. Project address: 1212 Ben Franklin Drive, Sarasota.

PROJECT DESCRIPTION:

Seaward Carport Replacement

1. Location relative to control line: A maximum of 210 feet seaward.
2. Exterior dimensions: 40 feet in the shore-normal direction by 20 feet in the shore-parallel direction.

PERMITTEE: Lido Beach Club Association, Inc.
PERMIT NUMBER: ST-1384
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3. Type of foundation: Concrete footings.
4. Finished floor elevation: See Special Permit Condition 1.

SPECIAL PERMIT CONDITIONS:

1. No work shall be conducted under this permit until the permittee has received a written notice to proceed from the Department. Prior to issuance of the notice to proceed, the permittee shall submit two plans with written certification that the carport is designed in accordance with the standards of Rule 62B-33.007(3)(b), 62B-33.007(3)(c), Florida Administrative Code, by the design engineer, who must be registered in Florida. These plans and certifications shall be subject to approval from the staff of the Office of Beaches and Coastal Systems, and shall include or reflect the following: Two copies of a revised site plan indicating the finished floor elevation referenced to NGVD.
2. Prior to the start of construction, a preconstruction conference shall be held at the site among the contractor, the owner or authorized agent, and a staff representative to establish an understanding among the parties as to the items specified in the special and standard conditions of the permit. The proposed locations of the structures shall be staked out for the conference.
3. All rubble and debris resulting from this construction shall be removed to a location landward of the coastal construction control line.
4. No additional exterior lighting is authorized.

Approved plans are incorporated into this permit by reference.

Done and ordered this 19th day of April 2001, in Tallahassee, Florida.

Attachment: Standard Permit Conditions

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52
Florida Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.

Debra Weaver 4/19/01
Deputy Clerk Date

State of Florida
Department of Environmental Protection



E. Olu. Sawyerr, P.E. Administrator
Office of Beaches and Coastal Systems



Florida Department of Environmental Protection
Bureau of Beaches and Coastal Systems

PERMIT ROUTING SHEET

Application File Number

ST-1384

NAMES:

Owner:

Lido Beach Club

PHONE:

Agent:

Brenda S. Callahan

(941) 388-4567

Proj.:

Carport

Date Application Complete

Apr. 16/2001

90 Day Deadline

7/15/01

For Approval by: (Circle One) ☒ S ☐ B ☐ D ☐ E

Project Location: From R-Mon

Dir (Circle One) ☒ N ☐ S ☐ E ☐ W 40 feet to N ☒ S ☐ E ☐ W 100 feet

Type of Permit: (Circle One) DBS Permit (161.041) ☒ CCL Permit (161.053) ☐ Variance (161.052)

(Circle All That Apply) ☒ Regular ☐ Modification ☐ Amendment ☐ After-the-Fact

Permit Fee received: (Circle One) ☒ Yes ☐ No

Evidence of Ownership received: (Circle One) ☒ Yes ☐ No

Date and Initials

Verification of Administrative Completeness by engineer
Local Approval granted by:

City of Sarasota

Received for Data Entry

Data Entry

Public comment request mailed

Final order draft typed

(Disk Location):

Word Processing Operator

Marine turtle comments received

Detailed review of draft final order by Engineer:

Detailed review of draft final order by Engineering Supervisor

Detailed review of final order by Bureau Chief or P.E. Supervisor

Public Notice Mailed

Notice to Proceed issued

Comments: