

DATE 12/19/2013

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000031656

APPLICANT WAYNE C. BRYANT PHONE 352-318-1278
ADDRESS 2622 NW 43RD ST. STE C4 GAINESVILLE FL 32606
OWNER MIKE SHAW/MAYO FERTILIZER, INC PHONE 386-752-3155
ADDRESS 413 NE MCCLOSKEY AVE LAKE CITY FL 32055
CONTRACTOR WAYNE C. BRYANT PHONE 352-378-2857
LOCATION OF PROPERTY 90E, TL ON MCCLOSKEY AVENUE, 1/4 MILE, TR THROUGH GATES.
TO THE RIGHT SIDE OF THE OFFICE
TYPE DEVELOPMENT STORAGE BLDG ADD ESTIMATED COST OF CONSTRUCTION 120000.00
HEATED FLOOR AREA 9000.00 TOTAL AREA HEIGHT 10.00 STORIES 1
FOUNDATION CONCRETE WALLS METAL ROOF PITCH 1/12 FLOOR SLAB
LAND USE & ZONING INDUSTRIAL MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 20.00 REAR 15.00 SIDE 15.00
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 36-3S-17-07463-002 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 24.10

CGC011606

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 13-0603-E BK TC N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE

Check # or Cash 1928

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Insulation date/app. by
Rough-in plumbing above slab and below wood floor date/app. by Electrical rough-in date/app. by
Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by Pool date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by
Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 600.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00

MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 675.00

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO
THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.
NOTICE: ALL OTHER APPLICABLE STATE OR FEDERAL PERMITS SHALL BE OBTAINED BEFORE COMMENCEMENT OF THIS
PERMITTED DEVELOPMENT.

**"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR
IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY
BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."**

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED
WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR
ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN
APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID
WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.



GENERAL OFFICES AND MANUFACTURING PLANT
2929 Industrial Avenue, Fort Myers, FL 33901
(239) 334-1051 • FAX: (239) 334-0932

MANUFACTURING PLANTS
500 Tenth Street, Cedartown, GA 30125
(770) 748-7900 • FAX: (770) 748-5300
71 Airport Road, Thomasville, GA 31757
(229) 225-1112 • FAX: (229) 225-1175

APPROVAL DRAWINGS

Approval drawings are issued in the form of Permit Drawings. See below.

PERMIT DRAWINGS

Permit drawings do not need to be returned. If changes are required, or the drawings are in conflict with the purchase order or your understanding of the job, please notify your salesman or estimator and return a marked up set of drawings for changes. Changes may require price adjustment, depending on the nature of the changes.

Note: a written release for fabrication must be sent to release the job for fabrication. Release needs to be made within 1 week of receiving drawings in order for the building price to be protected. Jobs released after 1 week are subject to price increase.

Visit us on the web at www.deansteelbuildings.com

e-mail: deanfmy@deansteelbuildings.com

Columbia County Building Permit Application

For Office Use Only		Application # <u>1311-47</u>	Date Received <u>11/21/13</u>	By <u>LH</u>	Permit # <u>31656</u>
Zoning Official <u>BLK</u>	Date <u>18 Dec. 2013</u>	Flood Zone <u>X</u>	Land Use <u>I</u>	Zoning <u>I</u>	
FEMA Map # <u>N/A</u>	Elevation <u>N/A</u>	MFE <u>N/A</u>	River <u>N/A</u>	Plans Examiner <u>J.C.</u>	Date <u>12-19-13</u>
Comments <u>Have provided additional parking for expansion of existing structure meeting the LDR's</u>					
☒ NOC	☒ EH	☒ Deed or PA	☒ Site Plan	☒ State Road Info	☒ Well letter
☐ Dev Permit # _____	☐ In Floodway	☐ Letter of Auth. from Contractor	☐ F W Comp. letter	☒ Sub VF Form	☐ Parent Parcel # _____
IMPACT FEES: EMS _____		Fire _____	Corr _____		
Road/Code _____	School _____	= TOTAL (Suspended) <u>✓</u> Ellisville Water		☒ App Fee Paid	

Septic Permit No. 13-0603-E

Fax 352-378-5662

Name Authorized Person Signing Permit Wayne C. Bryant

Phone 352-318-1278

Address 2622 NW 43rd St - Suite C4, Gainesville, FL 32606

Owners Name Mike Shaw - Mayo Fertilizer, Inc.

Phone 386-752-3155

911 Address 413 NE McCloskey Ave., Lake City, FL 32055

Contractors Name Bryant Construction Co., Inc.

Phone 352-378-2857

Address 2622 NW 43rd St. - Suite C4, Gainesville, FL 32606

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address David P. King, Jr - 7500 SW 61st Ave., Ocala, FL 34476

Mortgage Lenders Name & Address _____

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number 36-3S-17-07463-002

Estimated Cost of Construction \$120,000

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

Driving Directions 90 E, TL on McCloskey Ave, 1/4 mile, TR through gates

Number of Existing Dwellings on Property 1

Construction of Storage Facility

Total Acreage 24.10 Lot Size _____

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Total Building Height 10'

Actual Distance of Structure from Property Lines - Front 78 Side 30 Side BLDG Rear BLDG

Number of Stories 1 Heated Floor Area _____ Total Floor Area 9000 Roof Pitch 1/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. **CODE: Florida Building Code 2010 and the 2008 National Electrical Code.**

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

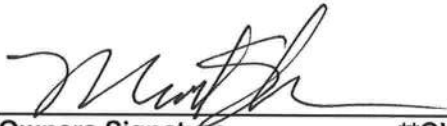
FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: **YOU ARE HEREBY NOTIFIED** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

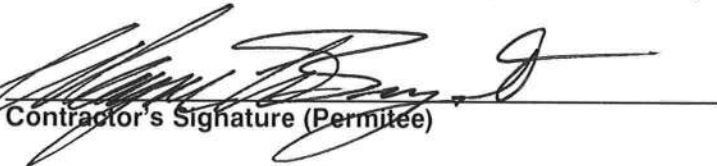


(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature

****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.



Contractor's Signature (Permitee)

Contractor's License Number CGC011606

Columbia County

Competency Card Number 941

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 21st day of Nov 2013.

Personally known X or Produced Identification _____



State of Florida Notary Signature (For the Contractor)

SEAL:

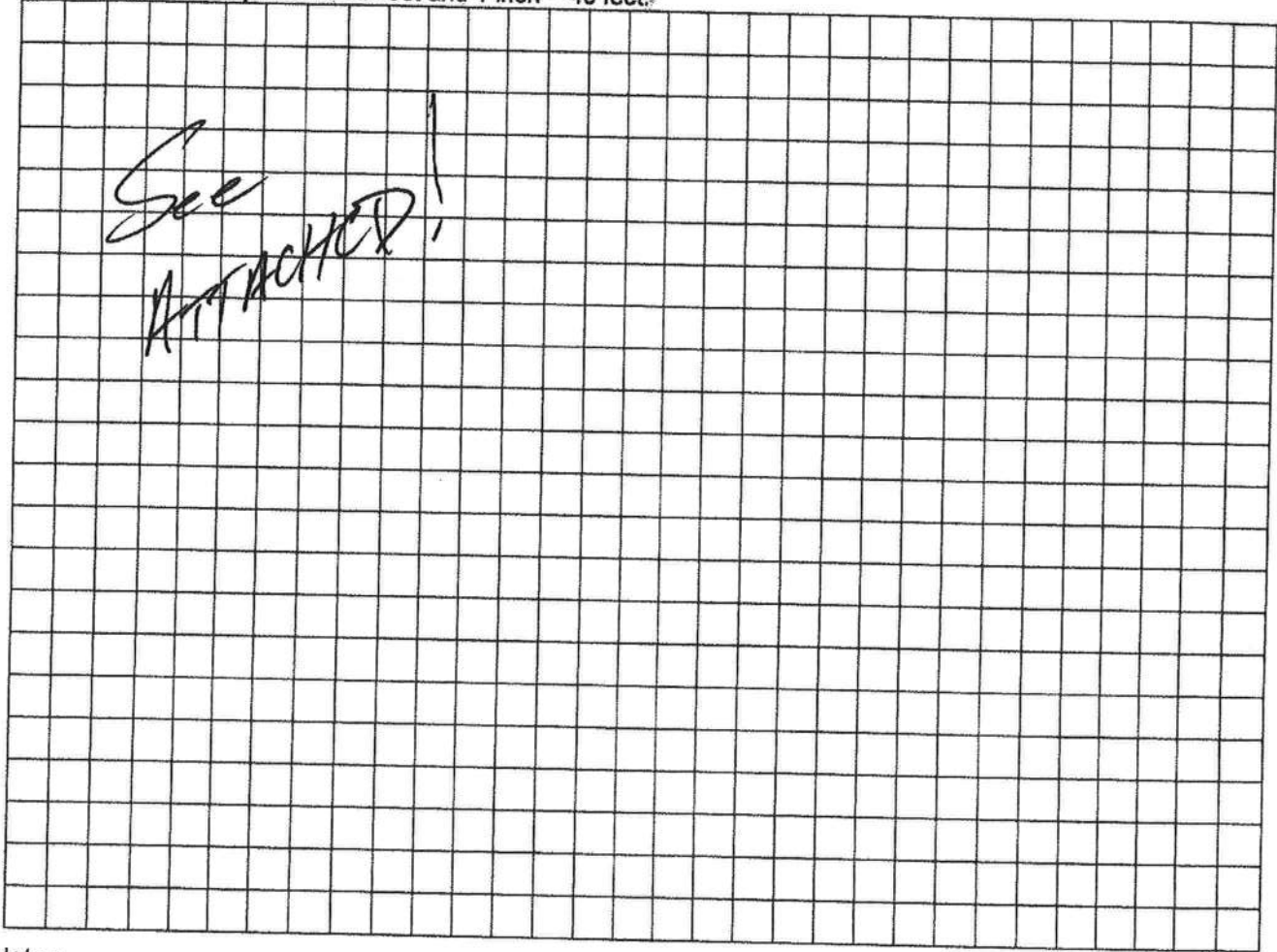


STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 13-0609E

----- PART II - SITEPLAN -----

Scale: Each block represents 10 feet and 1 inch = 40 feet



Notes: _____

Site Plan submitted by: Mayo Fertilizer

Plan Approved _____

Not Approved _____

Date 11/21/13By [Signature]- agent

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

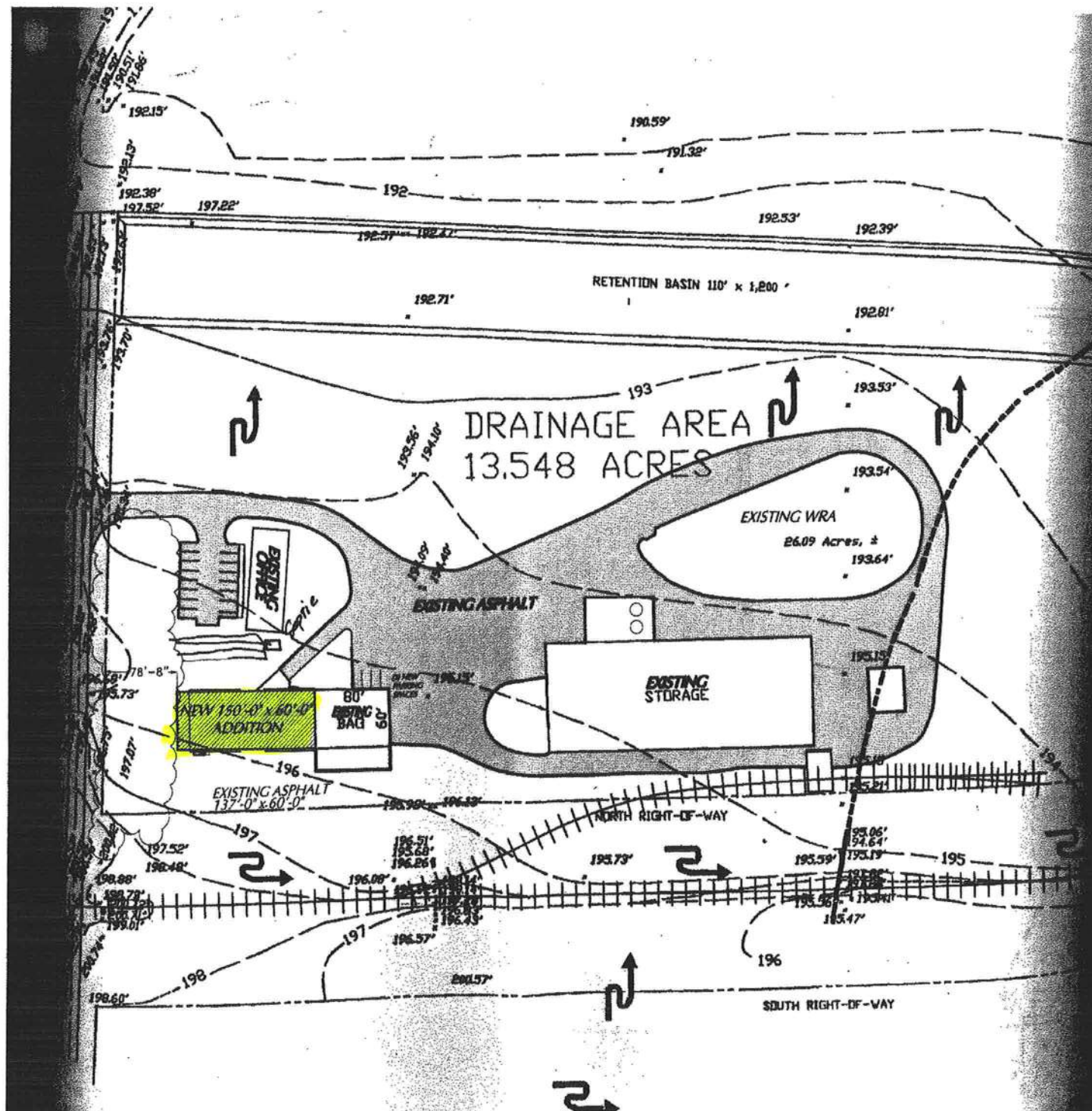
DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC
(Stock Number: 5744-002-4015-6)

Page 2 of 4

REVIEWED

11-25-13 By Albi FordDate 11-25-13

Columbia CHD



NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

36-35-17-07463-002

Clerk's Office Stamp

Inst. 201312018527 Date: 11/21/2013 Time: 11:47 AM
P. DeWitt Cason, Columbia County Page 1 of 1 B 1265 P 1295

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description):

a) Street (job) Address: 4130 McCloskey Ave, Lake City, FL 32055

2. General description of improvements: New Storage Facility

3. Owner Information

a) Name and address: Mayo Fertilizer Inc P.O. Box 357 Mayo, FL 32066

b) Name and address of fee simple titleholder (if other than owner): _____

c) Interest in property: _____

4. Contractor Information

a) Name and address: Bryant Construction Co., Inc., 2622 NW 43rd St - St C4 Gainesville, FL 32606

b) Telephone No.: 352-378-2857 Fax No. (Opt.): 352-378-5642

5. Surety Information

a) Name and address: _____

b) Amount of Bond: _____

c) Telephone No.: _____ Fax No. (Opt.): _____

6. Lender

a) Name and address: _____

b) Phone No.: _____

7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:

a) Name and address: _____

b) Telephone No.: _____ Fax No. (Opt.): _____

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:

a) Name and address: _____

b) Telephone No.: _____ Fax No. (Opt.): _____

9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Michael Shaw
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Michael Shaw
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 21st day of Nov, 2013, by:

Michael Shaw as Officer (type of authority, e.g. officer, trustee, attorney
fact) for Mayo Fertilizer Inc. (name of party on behalf of whom instrument was executed).

Personally Known ☒ OR Produced Identification _____ Type _____

Notary Signature Melinda D. Lewis Notary Stamp or Seal:



11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Michael Shaw
Signature of Natural Person Signing (In line #10 above.)

Columbia County Property Appraiser

CAMA updated: 9/23/2013

2013 Tax Year

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

Parcel: 36-3S-17-07463-002

<< Next Lower Parcel

Next Higher Parcel >>

Interactive GIS Map

Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	MAYO FERTILIZER INC		
Mailing Address	P O BOX 357 MAYO, FL 32066		
Site Address	413 NE MCCLOSKEY AVE		
Use Desc. (code)	LIGHT MANU (004100)		
Tax District	2 (County)	Neighborhood	36317
Land Area	24.100 ACRES	Market Area	06
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
COMM NW COR, RUN E 1675.73 FT TO E R/W RD FOR POB, CONT E 1888.5 FT TO NE COR OF NW1/4 OF THE NE1/4, RUN S 502.11 FT TO N R/W OF RR, W ALONG R/W 1847.5 FT TO E R/W OF RD, N 624.9 FT TO POB. ORB 461-414, 885-663, WD 1040- 2006			



Property & Assessment Values

2013 Certified Values		
Mkt Land Value	cnt: (0)	\$234,334.00
Ag Land Value	cnt: (1)	\$0.00
Building Value	cnt: (3)	\$1,286,425.00
XFOB Value	cnt: (9)	\$383,823.00
Total Appraised Value		\$1,904,582.00
Just Value		\$1,904,582.00
Class Value		\$0.00
Assessed Value		\$1,904,582.00
Exempt Value		\$0.00
Total Taxable Value	Cnty: \$1,904,582 Other: \$1,904,582 Schl: \$1,904,582	

2014 Working Values

NOTE:

2014 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

[Show Working Values](#)

Sales History

[Show Similar Sales within 1/2 mile](#)

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
3/10/2005	1040/2006	WD	V	Q		\$445,500.00
7/15/1999	885/663	WD	V	Q		\$134,400.00
11/1/1978	415/540	03	V	Q		\$96,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	OFFICE LOW (004900)	2006	(32)	4000	4168	\$209,189.00
2	PREF M B A (008700)	2006	PREFIN MTL (27)	4800	4872	\$131,814.00
3	WAREH STOR (008400)	2007	REINF CONC (23)	29744	33149	\$945,422.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0283	RR SPUR	2006	\$114,600.00	0000001.000	0 x 0 x 0	(000.00)
0140	CLFENCE 6	2006	\$34,955.00	0004906.000	0 x 0 x 0	AP (025.00)
0161	3-STRAND B	2006	\$6,440.00	0004906.000	0 x 0 x 0	AP (025.00)

Doc 21,00
Doc 3,337,50

THIS INSTRUMENT PREPARED BY:

MARLIN M. FEAGLE, ESQUIRE
FEAGLE & FEAGLE, ATTORNEYS, P.A.
153 NE Madison Street
Post Office Box 1653
Lake City, Florida 32056-1653
Florida Bar No. 0173248

Inst:2005006138 Date:03/16/2005 Time:09:02

Doc Stamp-Deed : 3118.50

YMK DC, P. Dewitt Cason, Columbia County B:1040 P:2006

RETURN TO:

MARLIN M. FEAGLE, ESQUIRE
FEAGLE & FEAGLE, ATTORNEYS, P.A.
153 NE Madison Street
Post Office Box 1653
Lake City, Florida 32056-1653

WARRANTY DEED

THIS INDENTURE, made this 10 day of MARCH, 2005, between **ANDERSON COLUMBIA CO., INC.**, a Florida corporation, whose mailing address is Post Office Box 1829, Lake City, Florida 32056-1829, party of the first part, Grantor, and **MAYO FERTILIZER, INCORPORATION**, a Florida corporation, whose mailing address is Post Office Box 357, Mayo, Florida 32066, party of the second part, Grantee,

W I T N E S S E T H:

That said grantor, for and in consideration of the sum of **TEN AND NO/100 (\$10.00) DOLLARS**, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

All that portion of the Northeast 1/4 of the Northwest 1/4 and the Northwest 1/4 of the Northeast 1/4 of Section 36, Township 3 South, Range 17 East, which lies East of Forest Service Road No. 236 and North of the Seaboard Coastline Railroad, and is described more particularly as follows:

Commence at the Northwest corner of Section 36, Township 3 South, Range 17 East, and thence run North 86 degrees 48 minutes 07 seconds East, along the North boundary of said Section 36 a distance of 1,675.73 feet to the Easterly right of way of Forest Service Road #236 and the Point of Beginning; thence continue North 86 degrees 48 minutes 07 seconds East, still along the North boundary of said Section 36 a distance of 701.08 feet to the Northeast corner of the Northeast 1/4 of the Northwest 1/4 of said Section 36; thence North 86 degrees 50 minutes 08 seconds East, still along said North boundary of said Section 36 a distance of 1187.42 feet to the Northeast corner of the Northwest 1/4 of the Northeast 1/4 of

said Section 36; thence South 1 degree 05 minutes 33 seconds West along the East line of the Northwest 1/4 of the Northeast 1/4 of said Section 36 a distance of 502.11 feet to the Northerly right of way of Seaboard Coastline Railroad; thence South 82 degrees 58 minutes 21 seconds West, along said railroad right of way a distance of 1,847.50 feet to the Easterly right of way of Forest Service Road #236; thence North 3 degrees 48 minutes 36 seconds West, along said Easterly right of way a distance of 624.90 feet to the Point of Beginning.

Tax Parcel No.: 36-3S- [REDACTED]

TOGETHER WITH all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2004.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

ANDERSON COLUMBIA CO., INC.

Cindy Ferrie

Witness

Cindy Ferrie

Print or type name

By: Brian P. Schrieber
Brian P. Schrieber

ATTEST: John T. Godbold

Janice E. Kerce

Witness

Janice E. Kerce

Print or type name

(CORPORATE SEAL)

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

Inst:2005006138 Date:03/16/2005 Time:09:02

Doc Stamp-Deed : 3118.50

DC,P.Dewitt Cason,Columbia County B:1040 P:2007

The foregoing instrument was acknowledged before me this 10th day of March, 2005, by **BRIAN P. SCHRIEBER**, as Vice president, and John T. Godbold, as _____, of **ANDERSON COLUMBIA CO.**,

INC., a Florida corporation, on behalf of the corporation, who are personally known to me or who have produced Florida driver's licenses as identification.

Katherine R. Polbos
Notary Public, State of Florida



(NOTARIAL
SEAL)

KATHERINE R. POLBOS
MY COMMISSION # DD 000155
EXPIRES SEPT. 25, 2005

My Commission Expires: Sept. 25, 2005

Inst:2005006138 Date:03/16/2005 Time:09:02

Doc Stamp-Deed : 3118.50

DC, P. DeWitt Cason, Columbia County B:1040 P:2008



Columbia County

BUILDING DEPARTMENT

Revised 3/15/12

MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR THE 2010 FLORIDA BUILDING CODE, FLORIDA PLUMBING CODE, FLORIDA MECHANICAL CODE, FLORIDA FUEL AND GAS CODE 2010 EFFECTIVE 15 MARCH 2012 AND 2008 NATIONAL ELECTRICAL

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES

GENERAL REQUIREMENTS:		Items to Include- Each Box shall be Circled as Applicable		
1	All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void.	YES	NO	N/A
2	If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.	YES	NO	N/A
3	The design professional signature shall be affixed to the plans	YES	NO	N/A
4	Two (2) complete sets of plans with the architecture or engineer signature and the date the affix embossed official seal was placed on the plans	YES	NO	N/A

Two (2) complete sets of plans containing the following information:

Building Site Plan Requirements		Items to Include- Each Box shall be Circled as Applicable		
4	Parking, including provision Florida Building Code Accessibility Code	☒ Yes	No	N/A
5	Fire access, showing all drive way which will be accessible for emergency vehicles	☒ Yes	No	N/A
6	Driving/turning radius of parking lots	☒ Yes	No	N/A
7	Vehicle loading include truck dock loading or rail site loading	☒ Yes	No	N/A
8	Nearest or number of onsite Fire hydrant/water supply/post indicator valve (PIV)	☒ Yes	No	N/A
9	Set back of all existing or proposed structures from each structure and property boundaries, Show all separation including assumed property lines	☒ Yes	No	N/A
10	Location of specific tanks(above or under ground ,water lines and sewer lines and septic tank and drain fields	☒ Yes	No	N/A
11	All structures exterior views include finished floor elevation	☒ Yes	No	N/A
12	Total height of structure(s) form established grade	☒ Yes	No	N/A
Review required by the Columbia County Fire Department Items 13 th 43				

Occupancy group use circle all uses:		Group A	Group B	Group E	Group F	Group H	Group I	Group M	Group R	Group S	Group U D	
13	Special occupancy requirements. <i>See PLANS</i>									Yes	No	N/A
14	Incidental use areas (total square footage for each room of use area)									Yes	No	N/A
15	Mixed occupancies									Yes	No	N/A
16	REQUIRED SEPARATION OF OCCUPANCIES IN HOURS FBC TABLE 707.3.9									Yes	No	N/A
Minimum type of permitted construction by code for occupancy use circle the construction type FBC 602												
17	Type I	Type II	Type III	Type IV	Type V							

Fire-resistant construction requirements shall be shown, include the following components:				
18	Fire-resistant separations	Yes	No	N/A
19	Fire-resistant protection for type of construction	Yes	No	N/A
20	Protection of openings and penetrations of rated walls	Yes	No	N/A
21	Protection of corridors and penetrations of rated walls	Yes	No	N/A
22	Fire blocking and draftstopping and calculated fire resistance	Yes	No	N/A
Fire suppression systems shall be shown include:				
23	Early warning smoke evacuation systems Schematic fire sprinklers Standpipes	Yes	No	N/A
24	Standpipes	Yes	No	N/A
25	Pre-engineered systems	Yes	No	N/A
26	Riser diagram	Yes	No	N/A
Life safety systems shall be shown include the following requirements:				
27	Occupant load and egress capacities	Yes	No	N/A
28	Early warning	Yes	No	N/A
29	Smoke control	Yes	No	N/A
30	Stair pressurization	Yes	No	N/A
31	Systems schematic	Yes	No	N/A
Occupancy load/egress requirements shall be shown include:				
32	Occupancy load	Yes	No	N/A
33	Gross occupancy load	Yes	No	N/A
34	Net occupancy load	Yes	No	N/A
35	Means of egress	Yes	No	N/A
36	Exit access	Yes	No	N/A
37	Exit discharge	Yes	No	N/A
38	Stairs construction/geometry and protection	Yes	No	N/A
39	Doors	Yes	No	N/A
40	Emergency lighting and exit signs	Yes	No	N/A
41	Specific occupancy requirements	Yes	No	N/A
42	Construction requirements	Yes	No	N/A
43	Horizontal exits/exit passageways	Yes	No	N/A

Items to Include-
Each Box shall
be Circled as
Applicable

Structural requirements shall be shown include:				
44	Soil conditions/analysis	Yes	No	N/A
45	Termite protection	Yes	No	N/A
46	Design loads	Yes	No	N/A
47	Wind requirements	Yes	No	N/A
48	Building envelope	Yes	No	N/A
49	Structural calculations (if required)	Yes	No	N/A
50	Foundation For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Yes	No	N/A
51	Wall systems	Yes	No	N/A
52	Floor systems	Yes	No	N/A
53	Roof systems	Yes	No	N/A
54	Threshold inspection plan	Yes	No	N/A
55	Stair systems	Yes	No	N/A
Materials shall be shown include the following				
56	Wood	Yes	No	N/A
57	Steel	Yes	No	N/A
58	Aluminum	Yes	No	N/A
59	Concrete	Yes	No	N/A
60	Plastic	Yes	No	N/A
61	Glass	Yes	No	N/A
62	Masonry	Yes	No	N/A
63	Gypsum board and plaster	Yes	No	N/A
64	Insulating (mechanical)	Yes	No	N/A
65	Roofing	Yes	No	N/A
66	Insulation	Yes	No	N/A
Accessibility requirements shall be shown include the following				
67	Site requirements	Yes	No	N/A
68	Accessible route	Yes	No	N/A
69	Vertical accessibility	Yes	No	N/A
70	Toilet and bathing facilities	Yes	No	N/A
71	Drinking fountains	Yes	No	N/A
72	Equipment	Yes	No	N/A
73	Special occupancy requirements	Yes	No	N/A
74	Fair housing requirements	Yes	No	N/A
Interior requirements shall include the following				
75	Review required by the Columbia County Fire Department Items 75 th 80	Yes	No	N/A
	Interior finishes (flame spread/smoke development)			
76	Light and ventilation	Yes	No	N/A
77	Sanitation	Yes	No	N/A
Special systems				
78	Elevators	Yes	No	N/A
79	Escalators	Yes	No	N/A
80	Lifts	Yes	No	N/A
Swimming pools				
81	Barrier requirements	Yes	No	N/A
82	Spas and Wading pools	Yes	No	N/A
83	Access required per Florida Building Code 424.1.2.5.6	Yes	No	N/A

Items to Include-Each Box shall be Circled as Applicable

Electrical				
84	Wiring	Yes	No	N/A
85	Services For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Yes	No	N/A
86	Feeders and branch circuits	Yes	No	N/A
87	Overcurrent protection	Yes	No	N/A
88	Grounding	Yes	No	N/A
89	Wiring methods and materials	Yes	No	N/A
90	GFCIs	Yes	No	N/A
91	Equipment	Yes	No	N/A
92	Special occupancies	Yes	No	N/A
93	Emergency systems	Yes	No	N/A
94	Communication systems	Yes	No	N/A
95	Low voltage	Yes	No	N/A
96	Load calculations	Yes	No	N/A
Plumbing				
97	Minimum plumbing facilities	Yes	No	N/A
98	Fixture requirements	Yes	No	N/A
99	Water supply piping	Yes	No	N/A
100	Sanitary drainage	Yes	No	N/A
101	Water heaters	Yes	No	N/A
102	Vents	Yes	No	N/A
103	Roof drainage	Yes	No	N/A
104	Back flow prevention	Yes	No	N/A
105	Irrigation	Yes	No	N/A
106	Location of water supply line	Yes	No	N/A
107	Grease traps	Yes	No	N/A
108	Environmental requirements	Yes	No	N/A
109	Plumbing riser	Yes	No	N/A
Mechanical				
110	Energy calculations	Yes	No	N/A
111	Review required by the Columbia County Fire Department Items 111 th 114 Exhaust systems	Yes	No	N/A
112	Clothes dryer exhaust	Yes	No	N/A
113	Kitchen equipment exhaust	Yes	No	N/A
114	Specialty exhaust systems	Yes	No	N/A
Equipment location				
115	Make-up air	Yes	No	N/A
116	Roof-mounted equipment	Yes	No	N/A
117	Duct systems	Yes	No	N/A
118	Ventilation	Yes	No	N/A
119	Laboratory	Yes	No	N/A
120	Combustion air	Yes	No	N/A
121	Chimneys, fireplaces and vents	Yes	No	N/A
122	Appliances	Yes	No	N/A
123	Boilers	Yes	No	N/A
124	Refrigeration	Yes	No	N/A
125	Bathroom ventilation	Yes	No	N/A
Items to Include-Each Box shall be Circled as Applicable				
Gas				
126	Review required by the Columbia County Fire Department Items 126 th 134 Gas piping	Yes	No	N/A
127	Venting	Yes	No	N/A

128	Combustion air	Yes	No	N/A
129	Chimneys and vents	Yes	No	N/A
130	Appliances	Yes	No	N/A
131	Type of gas	Yes	No	N/A
132	Fireplaces	Yes	No	N/A
133	LP tank location	Yes	No	N/A
134	Riser diagram/shutoffs	Yes	No	N/A
Notice of Commencement				
135	A recorded (in the Columbia County Clerk Office) notice of commencement is required to be on file with the building department . <i>Before Any Inspections Will Be Done</i>	Yes	No	N/A
Disclosure Statement for Owner Builders		Yes	No	N/A

Private Potable Water						
136	Horse power of pump motor	Well letter provided from the well driller		Yes	No	N/A
137	Capacity of pressure tank			Yes	No	N/A
138	Cycle stop valve if used			Yes	No	N/A

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

139	Building Permit Application	A current On-Line Building Permit Application www.ccpermit.com is to be completed by following the checklist all supporting documents must be submitted. There is a \$15.00 application fee.	Yes	No	N/A
140	Parcel Number	The parcel number (Tax ID number) from the Property Appraiser is required. A copy of property deed is also requested. (386) 758-1084	Yes	No	N/A
141	Environmental Health Permit or Sewer Tap Approval	A copy of an approved Environmental Health (386) 758-1058 waste water disposal permit or an approved City of Lake City (386) 752-2031 sewer tap is required before a building permit can be issued. Toilet facilities shall be provided for construction workers	Yes	No	N/A
142	Driveway Connection	If the property does not have an existing access to a public road, then an application for a culvert permit must be made (\$25.00). County Public Works Dept. determines the size and length of every culvert before installation and completes a final inspection before permanent power is granted. Culvert installation for commercial, industrial and other uses shall conform to the approved site plan or to the specifications of a registered engineer. Use or joint use of driveways will comply with Florida Department of Transportation specifications. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes	No	N/A
143	Suwannee River Water Management District Approval	All commercial projects must have an SRWMD permit issued or an exemption letter, before a building permit will be issued.	Yes	No	N/A
144	Flood Management	All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of section 8.8 of the Columbia County Land Development Regulations. Any project that is located within a flood zone where the base flood elevation (100 year flood) has not been established shall meet the requirements of section 8.7 of Columbia County Land Development Regulations. A development permit will also be required. The development permit cost is \$50.00	Yes	No	N/A

145	Flood Management	A CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.	Yes	No	N/A
146	911 Address	An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125 Ext. 3	Yes	No	N/A

Pursuant to Chapter one (administration) section R101.2.1 of the Florida Building Code: Section 105.3.2 **Time limitation of application.** An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Pursuant to Chapter one (administration) section R101.2.1 of the Florida Building Code: Section 105.4.1 **Permit intent.** A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 000031656 CONTRACTOR Bubayne Bryant PHONE 352-318-1278
 THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL 1461	Print Name <u>Taylor Electrical Contractors Inc</u> Signature <u>Jeffrey Taylor</u> License #: <u>EC 13004261</u> JEFF TAYLOR Phone #: <u>352-494-0713</u>
MECHANICAL/A/C	Print Name _____ Signature _____ License #: _____ Phone #: _____
PLUMBING/GAS	Print Name _____ Signature _____ License #: _____ Phone #: _____
ROOFING	Print Name _____ Signature _____ License #: _____ Phone #: _____
SHEET METAL	Print Name _____ Signature _____ License #: _____ Phone #: _____
FIRE SYSTEM/SPRINKLER	Print Name _____ Signature _____ License #: _____ Phone #: _____
SOLAR	Print Name _____ Signature _____ License #: _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; Identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



31656

1/6/2014

Columbia County Building Department

RE: CGC 011606
Mayo Fertilizer-Metal Building Addition

To Whom It May Concern:

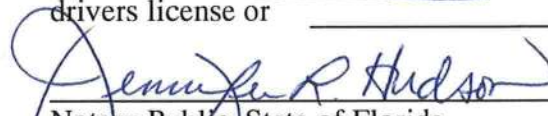
Chuck Hudson is an authorized agent of Bryant Construction Co., Inc. If you have any questions please call our office.

Sincerely:


Wayne C. Bryant
President

STATE OF FLORIDA
COUNTY OF Alachua

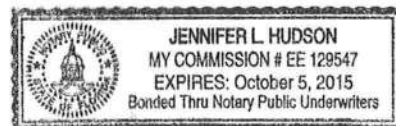
Sworn to and subscribed before me this 6th day of January 2014, by Wayne C. Bryant, who is personally known to be the person described in or has produced a Florida drivers license or _____ as identification.


Notary Public, State of Florida

Type or Print Name: Jennifer L. Hudson

My Commission Expires: 10/5/15

Commission Number: EE 129547



COLUMBIA COUNTY
OR
CLAY COUNTY

COMPLETION

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 36-3S-17-07463-002

Building permit No. 000031656

Permit Holder WAYNE C. BRYANT

Type STORAGE BLDG ADD

Owner of Building MIKE SHAW/MAYO FERTILIZER, INC

Location: 413 NE MCCLOSKEY, LAKE CITY, FL 32055

Date: 04/21/2014

Building Inspector

Way C



POST IN A CONSPICUOUS PLACE
(Business Places Only)

New Construction Subterranean Termite Service Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

31656

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential, therefore, no assurance of confidentiality is provided.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Company and builder, unless stated otherwise.

Section 1: General Information (Pest Control Company Information)

Company Name Aspen Pest Control, Inc.
Company Address P.O. Box 1785 City Lake City State FL Zip 32055
Company Business License No. JB162048 Company Phone No. 386-755-3811
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name Wayne C Bryant Phone No. (352) 378-2857

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Mike Show-Mayo Fertilizer Inc. 413 NE McCloskey Ave. Lake City, FL 32055

Section 4: Service Information

Date(s) of Service(s) 2-10-2014
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____

Check all that apply:

- ☒ A. Soil Applied Liquid Termiticide
Brand Name of Termiticide: Dominion 1L EPA Registration No. 53883-229
Approx. Dilution (%): .06 Approx. Total Gallons Mix Applied: 900 Treatment completed on exterior: ☐ Yes ☐ No
- ☐ B. Wood Applied Liquid Termiticide
Brand Name of Termiticide: _____ EPA Registration No. _____
Approx. Dilution (%): _____ Approx. Total Gallons Mix Applied: _____
- ☐ C. Bait System Installed
Name of System: _____ EPA Registration No. _____ Number of Stations Installed: _____
- ☐ D. Physical Barrier System Installed
Name of System: _____ Attach installation information (required)

Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) C. Lacey Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All materials and methods used comply with state and federal regulations.

Authorized Signature C. Lacey Date 2-10-2014

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPMA-99-B may still be used

form HUD-NPMA-99-B



ASPHALT TECHNOLOGIES, INC.

P.O. BOX 2128 • LAKE CITY, FL 32056
386/752-4921 • FAX 752-6906

File No.:

Lab No.:

31656

REPORT OF DAILY CONSTRUCTION TESTING AND MONITORING

Client _____

Date 2-4-14

Project Mayo Fertilizer

Job. No. _____

Contractor _____

Technician Rizotte

DESCRIPTION OF DAYS ACTIVITIES:

I performed 1 in place field Density test
on 1 ft placed and compacted in Bld PAD. TEST
Achieved 95% or better compaction

Weather Conditions: Sunny / clear

FDT's Performed 1

Hours Worked .5

Hours Travel .5

Cylinders Cast _____

Hours O.T. _____

Miles Travel _____

Add. Cylinders Cast _____

Hours Standby _____

FIELD REPRESENTATIVE

CLIENT REPRESENTATIVE

THIS AREA FOR OFFICE USE

Service Code Used _____

Units Charged _____

Rates Charged _____



ASPHALT TECHNOLOGIES, INC.

P.O. BOX 2128 • LAKE CITY, FL 32056
386/752-4921 • FAX 752-6906

File No.:

Lab No.:

31656

REPORT OF DAILY CONSTRUCTION TESTING AND MONITORING

Client _____

Date 1-31-14

Project Mayo Fertilizer

Job. No. _____

Contractor _____

Technician RLizotte

DESCRIPTION OF DAYS ACTIVITIES:

I performed 1 in place field density on Backfill placed in Bld pad. It achieved the required 95% or better compaction.

Weather Conditions: Cloudy/cool

FDT's Performed 1

Hours Worked .5

Hours Travel .5

Cylinders Cast _____

Hours O.T. _____

Miles Travel _____

Add. Cylinders Cast _____

Hours Standby _____


FIELD REPRESENTATIVE

CLIENT REPRESENTATIVE

THIS AREA FOR OFFICE USE

Service Code Used _____

Units Charged _____

Rates Charged _____

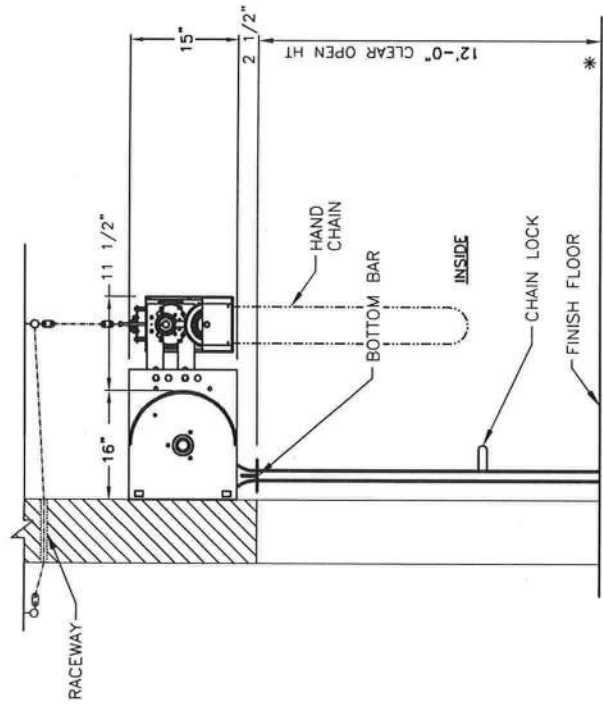
NOTES:
 01. GENERAL SPECIFICATIONS SEE SHEET 1.
 02. APPROX. WT. OF DOOR IS 1,305 LBS.
 03. THE MANUFACTURER ASSUMES THAT THE FIRE DOOR(S), THE WALL AND/OR MOUNTING CONDITIONS, ALONG WITH THE FASTENERS USED IN ATTACHING THE DOOR(S) TO THE STRUCTURE MEET WITH THE "AUTHORITY HAVING JURISDICTION'S" APPROVAL. FOR FURTHER REFERENCE CONSULT N.F.P.A. BULLETIN 80.



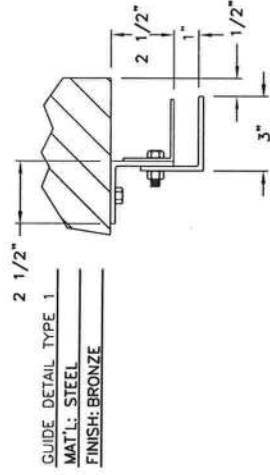
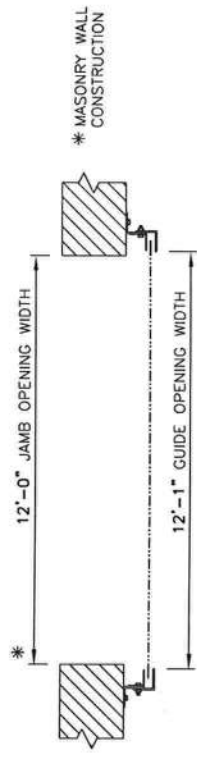
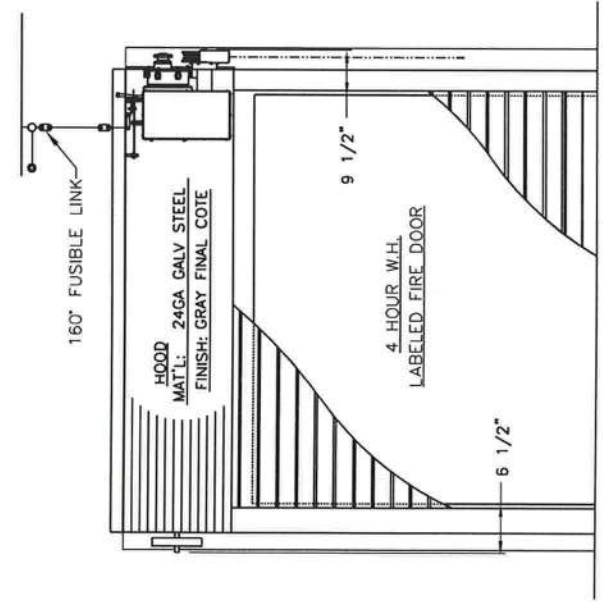
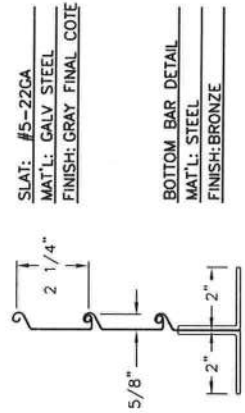
DIMENSIONS AND CLEARANCES AS NOTED BY ASTERISK (*) MUST BE FIELD CHECKED.

VERIFIED BY: _____ ON: _____

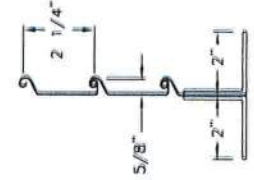
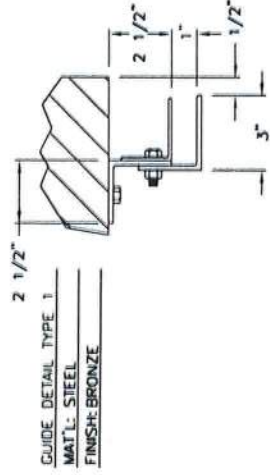
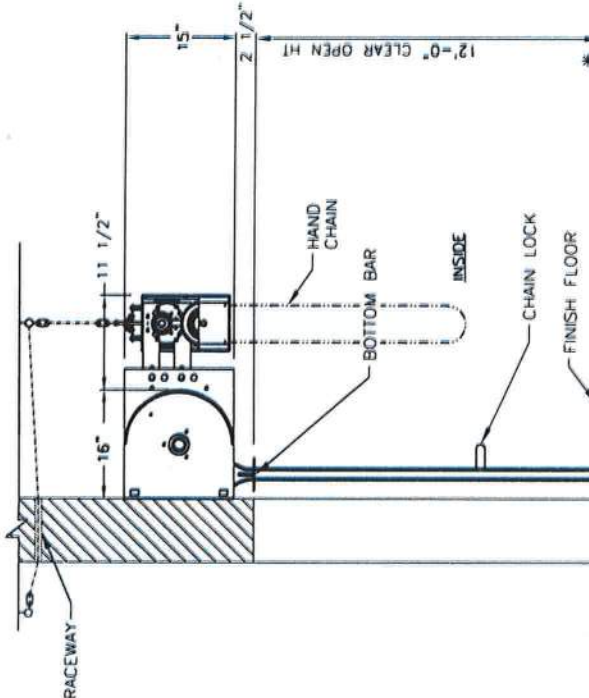
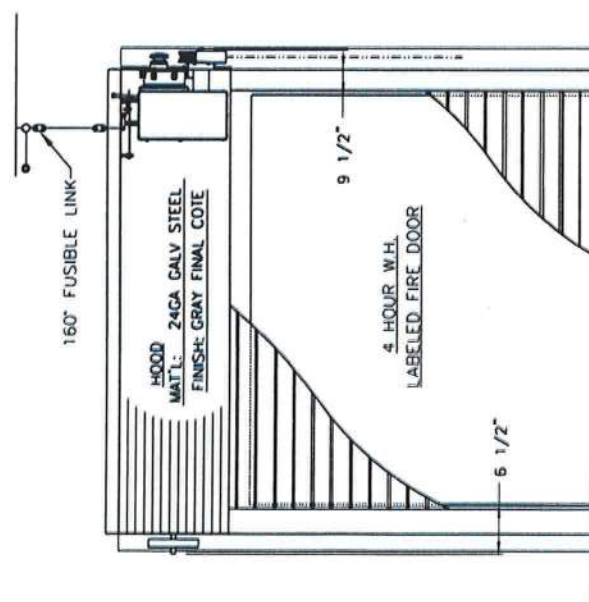
MAKE	HAND	ARCH. MARK	DOOR MARK
1	AS SHOWN		R1
	OPPOSITE		
3			
2			
1			
ACCESS	BY	DATE	ORIGINAL DRAWING
		8JAN2014	REVISION
NO.	BY	DATE	
JOB: MAYO FERTILIZER			
CONTRACTOR:			
ARCHITECT:			
DISTRIBUTOR: ANR DOOR SYSTEMS, INC.			
DRAWING NO. 1312120038			1 OF 1



BOTTOM BAR LOCK		
TYPE	OPERATION	
	IN	OUT BOTH
NO LOCKING		



FIRE DOOR || SIMPLE TEST CHAIN || FACEMTD



BOTTOM BAR LOCK		
TYPE	OPERATION	
	IN	OUT
NO LOCKING	☐	☒

SLAT: #5-22GA
 MAT'L: GALV STEEL
 FINISH: GRAY FINAL COAT

BOTTOM BAR DETAIL
 MAT'L: STEEL
 FINISH: BRONZE

- NOTES:
01. GENERAL SPECIFICATIONS SEE SHEET 1.
 02. APPROX. WT. OF DOOR IS 1,305 LBS.
 03. THE MANUFACTURER ASSUMES THAT THE FIRE DOOR(S), THE WALL AND/OR MOUNTING CONDITIONS, ALONG WITH THE FASTENERS USED IN ATTACHING THE DOOR(S) TO THE STRUCTURE MEET WITH THE "AUTHORITY HAVING JURISDICTION'S" APPROVAL. FOR FURTHER REFERENCE CONSULT N.F.P.A. BULLETIN 80.

DIMENSIONS AND CLEARANCES AS NOTED BY ASTERISK (*) MUST BE FIELD CHECKED.

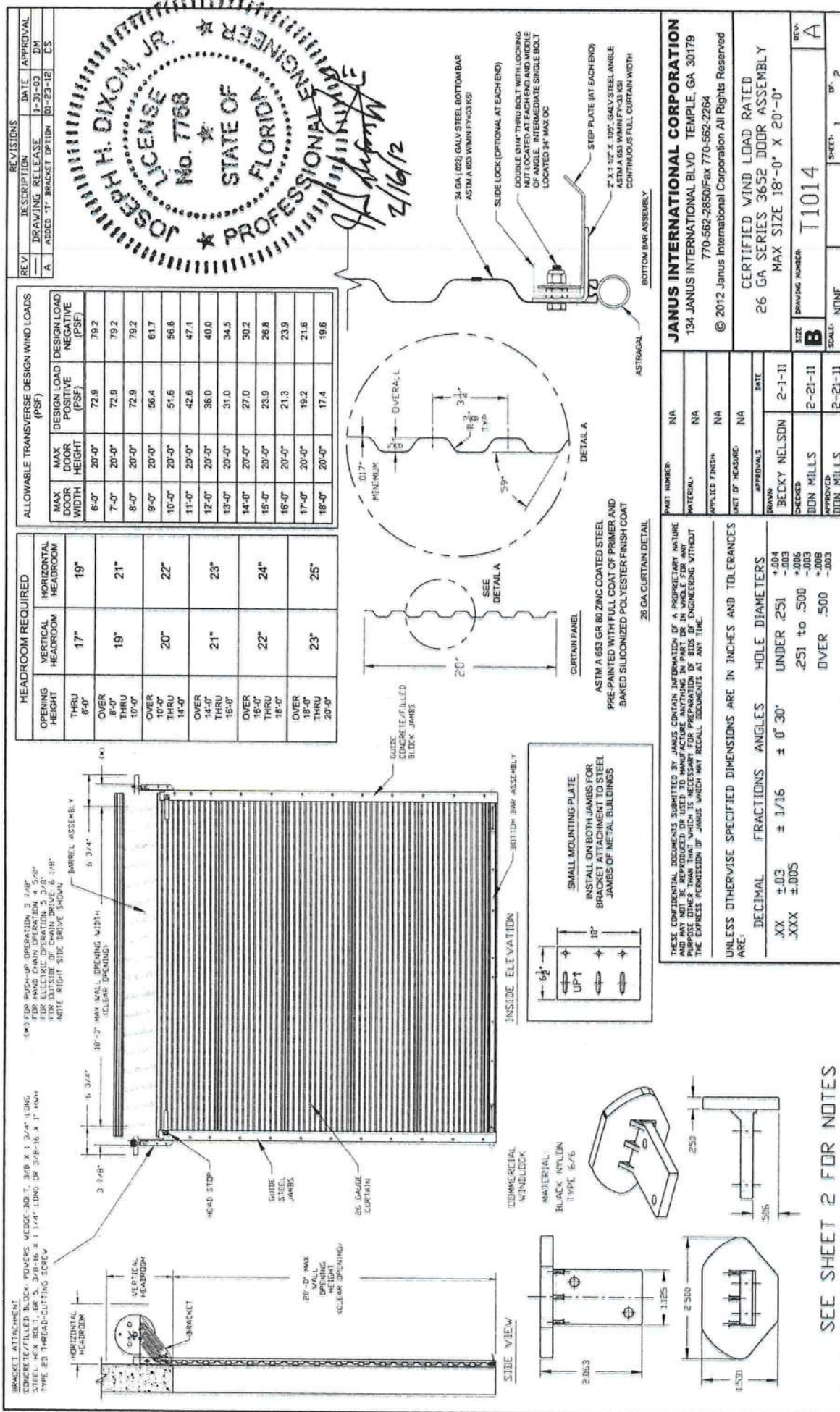
VERIFIED BY: _____ ON: _____

MAKE	HAND	ARCH. MARK	DOOR MARK
1	AS SHOWN		R1
	OPPOSITE		
3			
2			
1			
ACCESS	BLAN2014	DATE	ORIGINAL DRAWING
NO.	BY	REVISION	



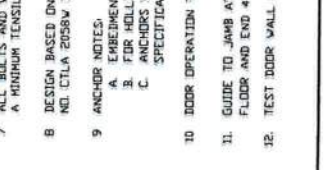
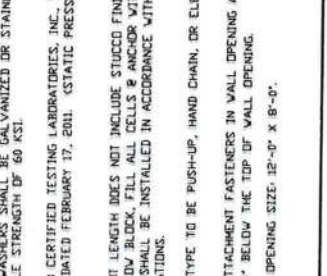
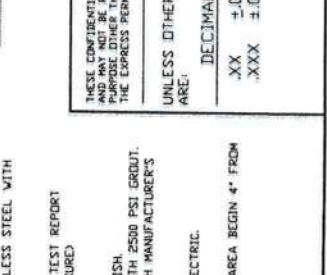
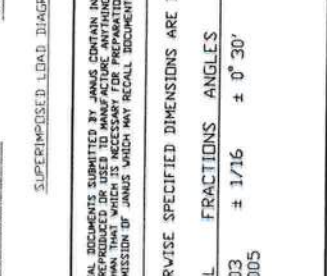
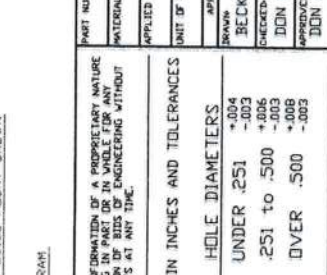
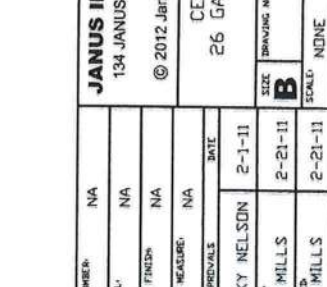
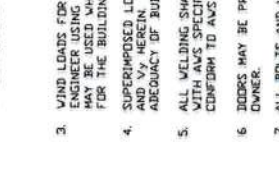
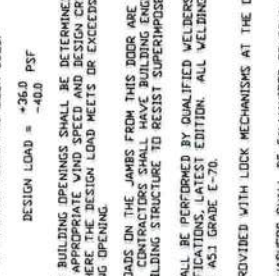
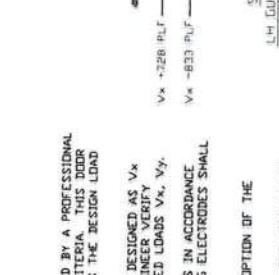
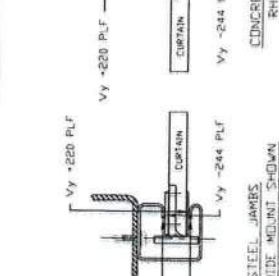
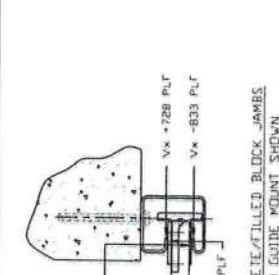
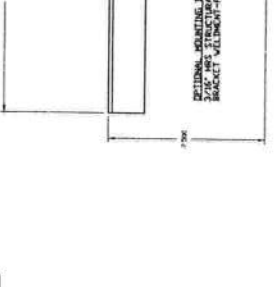
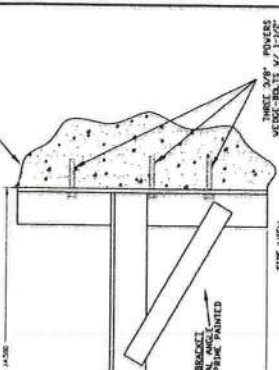
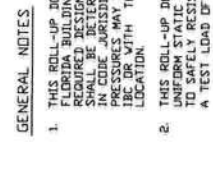
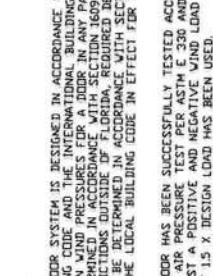
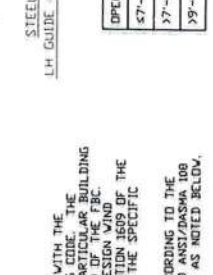
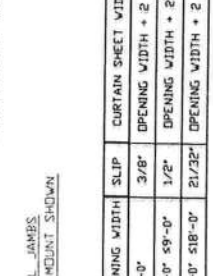
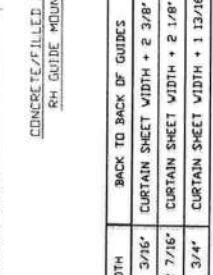
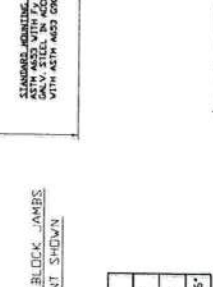
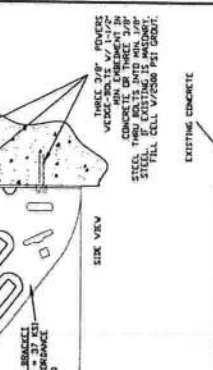
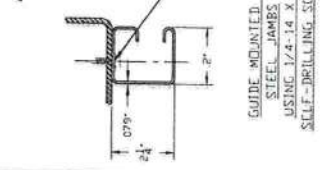
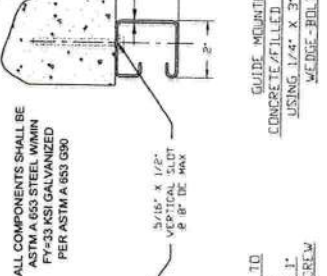
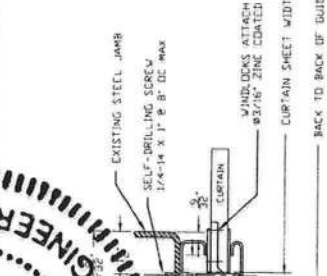
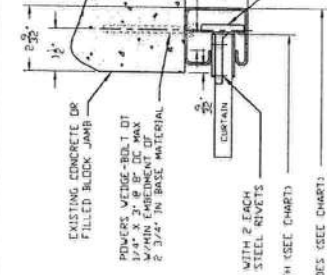
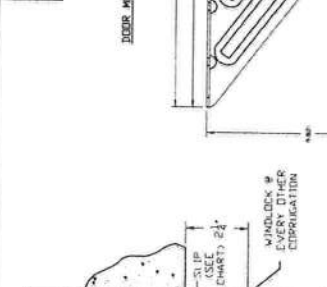
JOB: MAYO FERTILIZER
 CONTRACTOR:
 ARCHITECT:
 DISTRIBUTOR: ANR DOOR SYSTEMS, INC.
 DRAWING NO. 1312120038

FIRE DOOR || SIMPLE TEST CHAIN || FACEMTD





REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
1	DRAWING RELEASE	1-31-03	DH
2	ADDED 1" BRACKET OPTION	01-23-12	CS



CONCRETE/FILLED BLOCK JAMBS

RH GUIDE MOUNT SHOWN

STEEL JAMBS

LH GUIDE MOUNT SHOWN

BACK TO BACK OF GUIDES (SEE CHART)

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GENERAL NOTES

- THIS ROLL-UP DOOR SYSTEM IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND THE INTERNATIONAL BUILDING CODE. THE REQUIRED DESIGN WIND PRESSURES FOR A DOOR IN ANY PARTICULAR BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1609 OF THE FBC. THE DESIGN WIND PRESSURES FOR A DOOR IN ANY PARTICULAR BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1609 OF THE FBC OR WITH THE LOCAL BUILDING CODE IN EFFECT FOR THE SPECIFIC LOCATION.
- THIS ROLL-UP DOOR HAS BEEN SUCCESSFULLY TESTED ACCORDING TO THE UNIFORM STATIC AIR PRESSURE TEST PER ASTM E-233. IT IS DESIGNED TO SAFELY RESIST A POSITIVE AND NEGATIVE WIND LOAD AS NOTED BELOW. A TEST LOAD OF 1.5 X DESIGN LOAD HAS BEEN USED.

DESIGN LOAD = +36.0 PSF
-40.0

- WIND LOADS FOR BUILDING OPENINGS SHALL BE DETERMINED BY A PROFESSIONAL ENGINEER USING APPROPRIATE WIND SPEED AND DESIGN CRITERIA. THIS DOOR MAY BE USED WHERE THE DESIGN LOAD MEETS OR EXCEEDS THE DESIGN LOAD FOR THE BUILDING OPENING.
- SUPERIMPOSED LOADS ON THE JAMBS FROM THIS DOOR ARE DESIGNED AS V_x AND V_y HEREIN. CONTRACTORS SHALL HAVE BUILDING ENGINEERS VERIFY THE ADEQUACY OF BUILDING STRUCTURE TO RESIST SUPERIMPOSED LOADS V_x , V_y .
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO AWS A51 GRADE E-70.
- DOORS MAY BE PROVIDED WITH LOCK MECHANISMS AT THE OPTION OF THE OWNER.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- DESIGN BASED ON CERTIFIED TESTING LABORATORIES, INC., TEST REPORT NO. C7LA 2008W DATED FEBRUARY 17, 2011. (STATIC PRESSURE)
- ANCHOR NOTES:
 - EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.
 - FOR HOLLOW BLOCK, FILL ALL CELLS & ANCHOR WITH 2500 PSI GROUT.
 - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DOOR OPERATION TYPE TO BE PUSH-UP, HAND CHAIN, OR ELECTRIC.
- GUIDE TO JAMB ATTACHMENT FASTENERS IN WALL OPENING AREA BEGIN 4" FROM FLOOR AND END 4" BELOW THE TOP OF WALL OPENING.
- TEST DOOR WALL OPENING SIZE: 12'-0" X 8'-0".

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3652

commercial



JANUS

INTERNATIONAL



superior product + recognized value





JANUS
INTERNATIONAL

The Janus Model 3652 is our certified wind load rated rolling sheet door that meets specified wind loads required by even the most stringent building codes. Independent laboratory testing proves how durable and strong this door really is. The quick installation and smooth operation further demonstrates how user friendly this door is. Backed by a one year warranty, this door is built to perform.

FEATURES



The 26 gauge corrugated door curtain is manufactured from full hard galvanized grade 80 steel and coated with Super Durable polyester paint that is backed by a 40 year film integrity and 25 year no-fade limited paint warranty. Independently tested in accordance with ASTM E 330 and ANSI/DASMA 108, the series 3652 meets requirements of the International Building Code and Florida Building Code (FL 14425). Design wind load is rated +36 PSF and -40 PSF for opening width of 12'0". Ratings vary for other opening widths, so please consult the factory. Available in sizes up to 18'0" x 20'0" and in over 20 different standard colors.

Tough, durable and wide, heavy duty nylon strapping helps control curtain stretch while deadening sound and reducing wear. The nylon windlocks provide the strength to meet the stringent wind load requirements when engaged under load; however, easy operation is provided during load-free operation because the windlocks do not come in contact with guide.

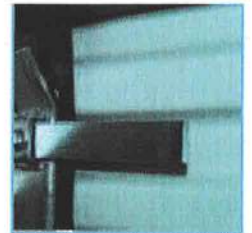


The slide bolt lock assembly affixed to the bottom bar at each end of the door curtain fastens through the guide to securely keep the door locked and in the down position. Padlocks can be attached to the slide to further secure the door.

The flat door stop slide makes installation quicker. Simply slide through the holder on the guide and affix with a fastener.



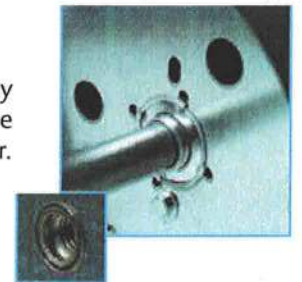
The 12" enclosed barrel houses the dead axle assembly and protects the factory lubricated springs from direct contact with environmental elements. The inherent strength provided by the spiral barrel minimizes axle deflection, providing smoother operation. Because the curtain is attached by screws and not seamed to the barrel, replacement of either independent assembly is cost-effective, quick and easy.



Grease-filled, shielded radial ball bearings at the drums provide longevity and smooth operation. Factory installed insert nuts help make the installation of the chain hoist and operator sprocket easier.



A cam-action spring tension holding device allows quick, easy and equal adjustment of the tension on all springs simultaneously from one end of the door. The cam tensioner bites into the axle helping to eliminate the unwanted spinning of the axle during the initial spring loading or adjustment process.



A reduced drive chain hoist for smoother operation is standard on all door sizes over 10'0" x 10'0".



superior product • recognized value

Three manufacturing facilities located throughout the United States and a team of experienced door experts are available to assist you with any of your door needs.

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commercial

One year warranty on workmanship and material.



Mounting brackets are engineered and designed with deep embossing for strength, and are independently tested to withstand more than 2,700 pounds per pair. The installation-friendly mounting brackets feature safe rounded edges and slots that allow for easy vertical adjustments as well as various installation preferences.



Convenient spring tension adjustment is accommodated by inserting a common 1/2" ratchet tool into the end of the axle and rotating. Initial loading of the door tension can be easily accomplished with a ratchet without the difficulty of spinning the door. This innovation also allows the tension to be easily measured and managed with a torque wrench.

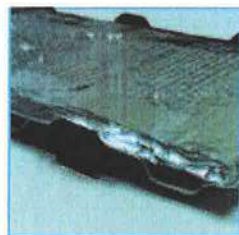
OPTIONS



The electrical operation kit includes a sprocket and torque struts that equip the door for wall mounted jackshaft electric operators and can be furnished in lieu of reduced drive chain hoist when provided.

The Pantheon range of low voltage DC operators are designed to fit enclosed internally in the barrel of the rolling door, providing quiet and efficient operation but requiring only minimal side room. The logic controller is designed to be readily compatible with external transmitters, receivers, photo eyes and sensing edges. The operator hand side must be specified when ordering. Ask a sales representative for more details.

Insulation is made of a foil backed, dual layer of heavy-duty polyethylene air-bubble insulation secured in place with a strong adhesive and joined by mylar film to provide an R value of 4. (Top draft stop and side draft stop are also included.)



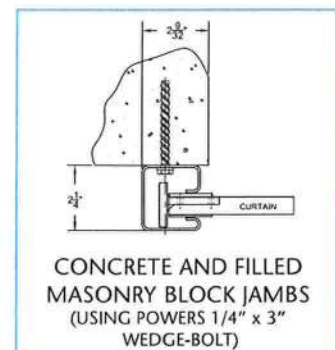
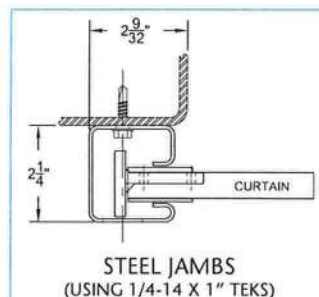
The header seal attaches directly to the header and extends up to 5" to the door curtain to form an effective barrier from environmental elements.

The top draft stop mounted to the door curtain provides a 2-1/4" weather seal between the door and the header.

GUIDE DETAILS



Universal mount 2" deep 14 gauge galvanized steel guides require no pre-installation modifications for steel, concrete or filled masonry block applications.



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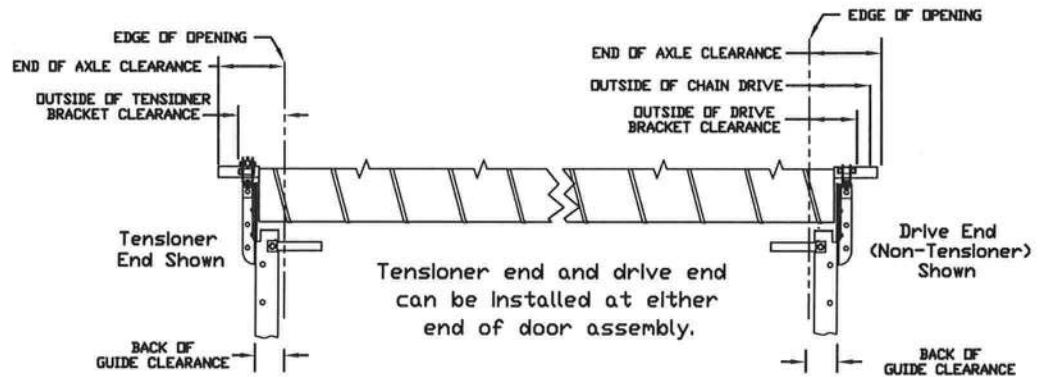
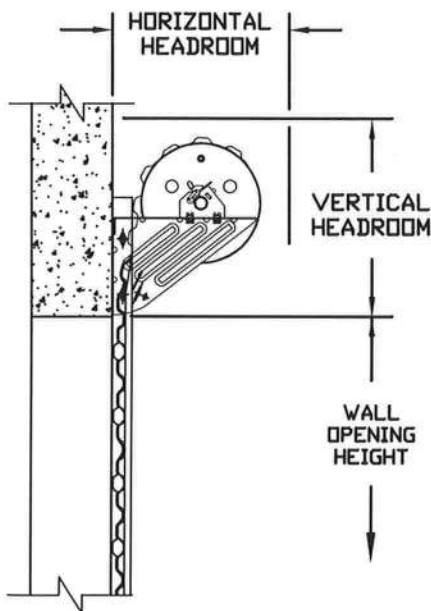
commercial

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Side Room Requirements

*Dimensions are taken from edge of opening

Operation	Back of Guide	Outside of Bracket Tensioner End	Outside of Hand Chain Drive	Outside of Bracket Drive End	Each End of Axle
Push Up					
Reduced Drive Chain					
Electric					



JANUS INTERNATIONAL

{ headquarters }

1001 West 5th Street
Tempe, Georgia 30170

{ manufacturing facilities }

1334 Angus Avenue (US-90) Exit 10
Tempe, Georgia 30170

+

12366 Buffum Road
Houston, Texas 77034

+

13374 West Progress Road
Surprise, Arizona 85374

+

Clay Drive and 13374 West Progress Road
Surprise, Arizona 85374

{ distribution center }

2335 West La Palma Avenue
Orange, California 92667

PH 1 866 562 2580
FX 1 770 562 0328

www.janusintl.com



Head Room Requirements

Opening Height	Vertical Headroom	Horizontal Headroom
Thru 8'0"		
Over 8'0" thru 10'0"		
Over 10'0" thru 14'0"		
Over 14'0" thru 16'0"		
Over 16'0" thru 18'0"		
Over 18'0" thru 20'0"		

proud members of:



DEAN

STEEL BUILDINGS, INC.

Standard Construction Details



DEAN STEEL BUILDINGS, INC.
FORT MYERS, FL / CEDARTOWN, GA / THOMASVILLE, GA

3.6.2013

IMPORTANT

PLEASE READ THE FOLLOWING:

Unloading Check-out and Shortages:

It is essential, while unloading your Dean building, to verify that all components listed on the shipping papers were actually shipped. The actual quantities of the items on each truck are circled on the shipping papers. Any items found to be shipped short, or in direct conflict with the shipping papers should be noted on the driver's report. This serves two purposes: 1) you, as the erector, will be aware that a particular item is missing and can temporarily work around it; 2) it lets us know that we have a problem and allows us to react quickly. This system eliminates the discovery that something is missing at the time you need it to erect the building. Taking the time to properly unload the job and check it allows for proper placing of the parts around the jobsite, which should expedite the erection process. Dean will do its utmost to fill any reported shortages as quickly as possible. Once the erector, or owner, signs that he has received the goods and accepted them as being complete, we can only assume that shortages after this point are missing due to jobsite theft. All claims for damage or shortage must be presented, in writing, to the carrier — either Dean Steel Buildings, Inc. or common carrier, within seven days after receipt of materials by purchaser. Failure to do so voids any claim.

Storage and Protection of Materials:

A Galvanic action known as 'white rust' may result when aluminum, galvanized, or the galvanized pre-painted coating on pilled flat sheets or nested formed sheets become wet from rain, condensation, or other causes. Under certain weather conditions this 'white rust' can happen in as little as 24-48 hours. Galvalume coated sheet is susceptible, as is galvanized sheet, to wet storage staining. However, due to the composition of the coating, the sheet surface will develop a dark gray discoloration as opposed to the white oxide that develops on galvanized. Formed pre-painted sheets must be protected from moisture, in the same manner as plain galvanized or Galvalume sheets, if they are in contact with other sheets. The sheets must be properly packaged and stored. It is important upon receipt of material to examine packages for damage. Builders should take prompt action where cuts, tears, or other damage is evident. If moisture is present the panel should be dried at once.

Panels that cannot be stored out of the elements should be restacked individually and spacers put between the panels, so that individual panels can have air circulated around them (non-metallic spacers, i.e., wood, cardboard, etc.). Bundled panels should be off the ground sufficiently to prevent rising water from coming in contact with the panels. Bundled panels should also be slanted so that any condensation may be drained off. All bundled panels should be thoroughly covered with a waterproof canvas tarp. Do not use non-breathing materials such as plastic because they prevent air passage and tend to trap moisture in the bundle. Roof and side panels should be erected as soon as possible after their arrival at the jobsite. If prolonged jobsite storage will be required, the builder is advised to seek storage of the panels out of the elements.

Proper Erection Practices:

Dean requires that the erection of its products be done by experienced pre-engineered metal building assemblers. Erection and construction methods should be performed as outlined in the "American Institute of Steel Construction Code of Standard Practices for Steel Buildings and Bridges, Part 5." In addition, the erection policies and practices of both the SBA Independent Erectors Division, and MBMA erection practices must be understood and adhered to. The quality of erection has a direct bearing on the quality of the end product. If there are any questions as to these drawings on the Dean Steel Building System, please do not hesitate to contact our Customer Service Department. (941) 334-1051

Back Charge Claim Procedure:

Dean Steel Building, Inc. follows the back charge claim procedure adopted by MBMA and as outlined in the MBMA Low Rise Building Systems Manual, Common Industry Practices Section 6.10, the Customer Service Manager must be notified at once when a condition becomes apparent, which may result in a back charge by the builder, or erector. Notification by phone must be confirmed in writing. Some approximation of the amount of the back charge must be established at this time, and a written authorization from the Customer Service Manager must be secured before the work is started.

Dean will not honor any field corrections or back charges unless prior notice has been given and agreed upon. All discrepancies must be agreed upon, in writing, and accompanied with a Dean purchase order number before Dean will honor any back charges. Dean will then pay this agreed amount upon presentation of a final claim. Payment will be by credit memo to the Builder's account.

Any work which is undertaken without such notification and authorization, for which the builder expects to back charge Dean, will not be honored as a back charge.

Should a discrepancy exist, Dean may elect to do one of the following:

- 1) Ship material from its plant for field correction (freight allowed).
- 2) Purchase material locally (or allow builder to do so) for field correction.
- 3) Modify existing materials previously shipped to conform to requirements.
- 4) Return material to Dean's plant for exchange or modification requirements.

When delivery is contracted by Dean, it is our carrier's intent to arrive on the jobsite at a pre-designated time and every effort will be made to do so. However, **Dean will not accept any back charges due to late arrivals.**

Dean will not pay any back charges for delays that may be incurred due to shortages. Dean will not pay claims on improper unloading of material, improper storage of material, or delays or damages caused by improper erection techniques. Dean Steel Buildings, Inc. may make changes from time to time in their product lines by discontinuing, altering, or modifying any or all of the products included therein and by adding new and additional products thereto. Dean Steel Buildings, Inc. shall not, however, be liable to builder in any way or for any reason on account of any change in Dean Steel Buildings, Inc.'s product lines.

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STRUCTURAL FRAMING DETAILS

Insert Girt Isometric	1	_____
Single Slope Framing Isometric	2	_____
Wing Unit Framing Isometric	3	_____
Insert Girt Building Roof Framing	4	_____
Insert Sidewall Girt to Insert Endwall Girt - BF-EW	5	_____
Insert Sidewall Girt to Insert Endwall Girt - RF-EW	6	_____
Bypass Girt Isometric	7	_____
Bypass Girt Building Roof Framing	8	_____
E-Z Lap Purlin/Girt Lap Detail	8	_____
Bypass Sidewall Girt to Insert Endwall Girt - BF-EW	9	_____
Bypass Sidewall Girt to Bypass Endwall Girt - BF-EW	10	_____
Bypass Sidewall Girt to Insert Endwall Girt - RF-EW	11	_____
Bypass Sidewall Girt to Bypass Endwall Girt - RF-EW	12	_____
Insert Girt Wind Column Details	13	_____
Bypass Girt Wind Bent Details	14	_____
Bypass Girt Wind Column Details	15	_____
Cable Bracing Details	16	_____
Turn-of-Nut Method	17	_____

SHEETING & FLASHING

Sheeting Details - Rib-12	18	_____
Sheeting Details - Rib-6	18a	_____
Sheeting Details - Shadow Panel	19	_____
Roof Trim & Liner Panel Details	20	_____
Interior Partition Details	21	_____
Valley Gutter Details	22	_____
Gutter & Rake Flashing Details	23	_____
Downspout Spacing	24	_____
Gutter Miter Template	25	_____
Rake Miter Template	26	_____
Rake Slide Retainer Angle	27	_____
Canopy Framing - Straight Beam	28	_____
Roof Extension Framing	29	_____
Canopy/Roof Extension Sheeting & Flashing - Straight Beam	30	_____
Canopy - Tapered Beam	31	_____
Fascia - Vertical	32	_____
Fascia Cross Section - Vertical	33	_____
Fascia - Sloped	34	_____
Fascia Cross Section - Sloped	35	_____

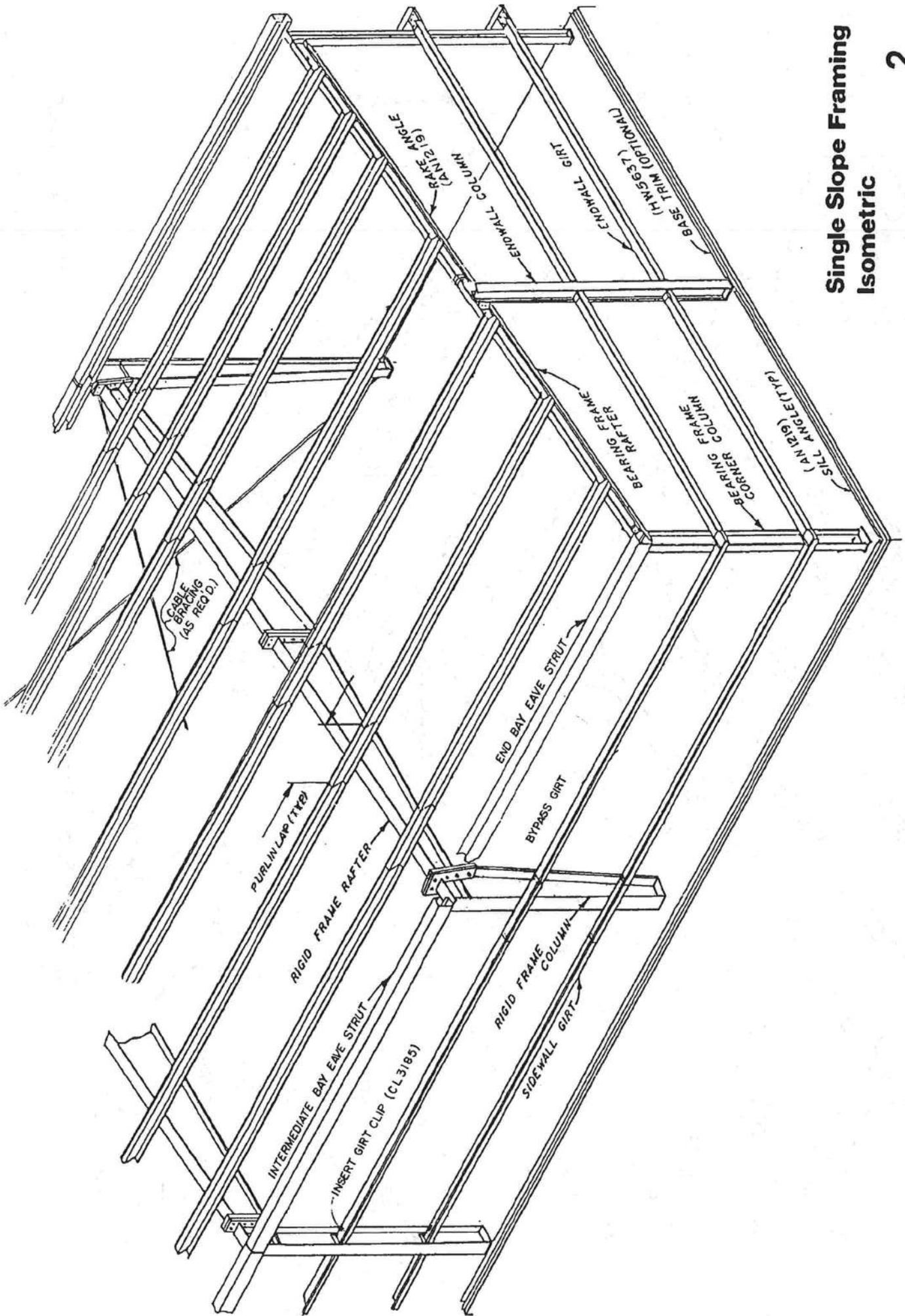
ACCESSORIES & MISC.

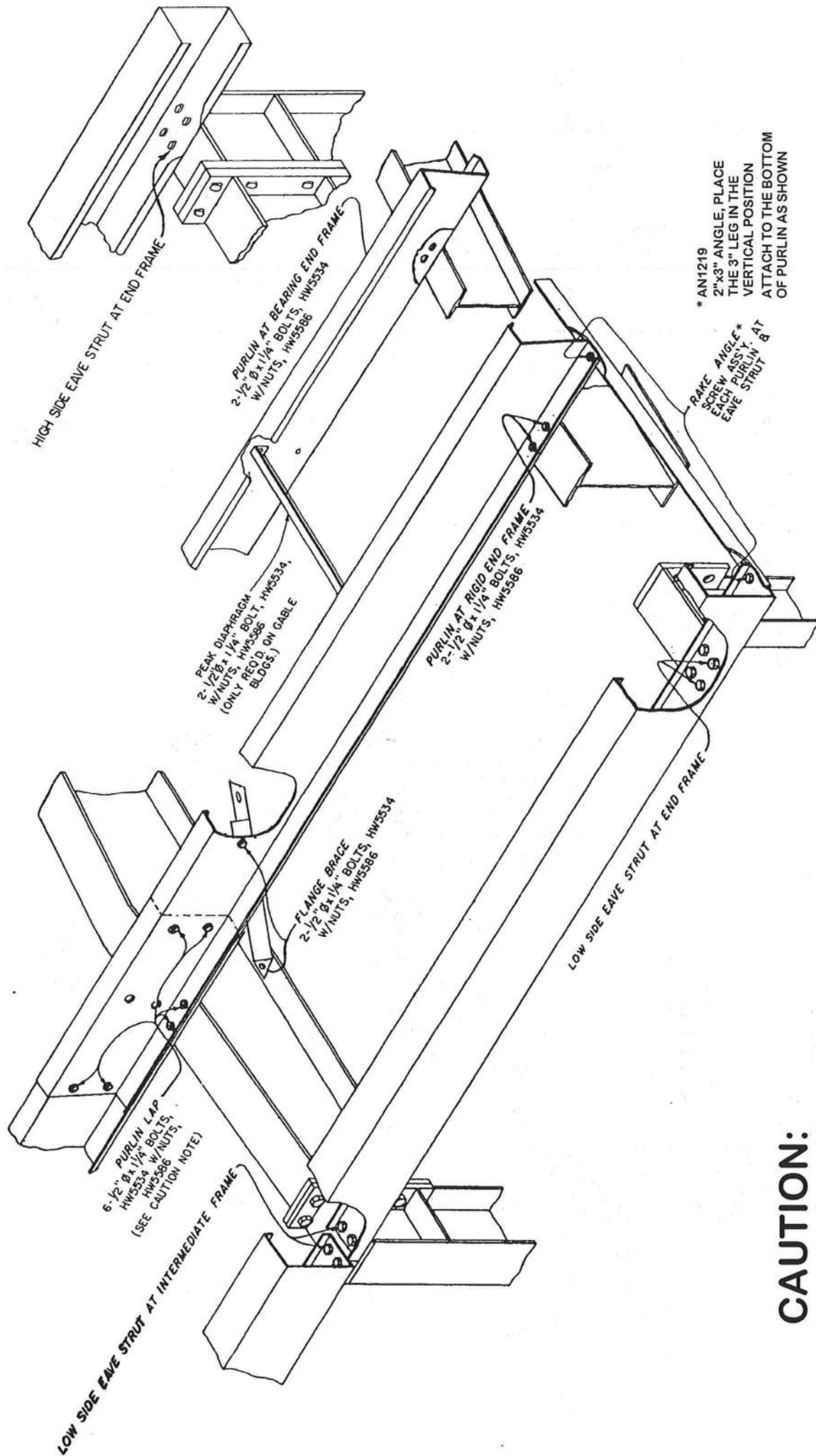
Doors - Personnel	36	_____
Overhead Door Details	37	_____
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Skylight/Wall Light Details	39	_____
Skylight Florida Product Approval	40	_____
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Screw Identification Table	54	_____
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N.P.D. Prefixes	57	_____
N.P.D. Numbering	58	_____
Index	59	_____

Single Slope Framing Isometric

2

3/25/98





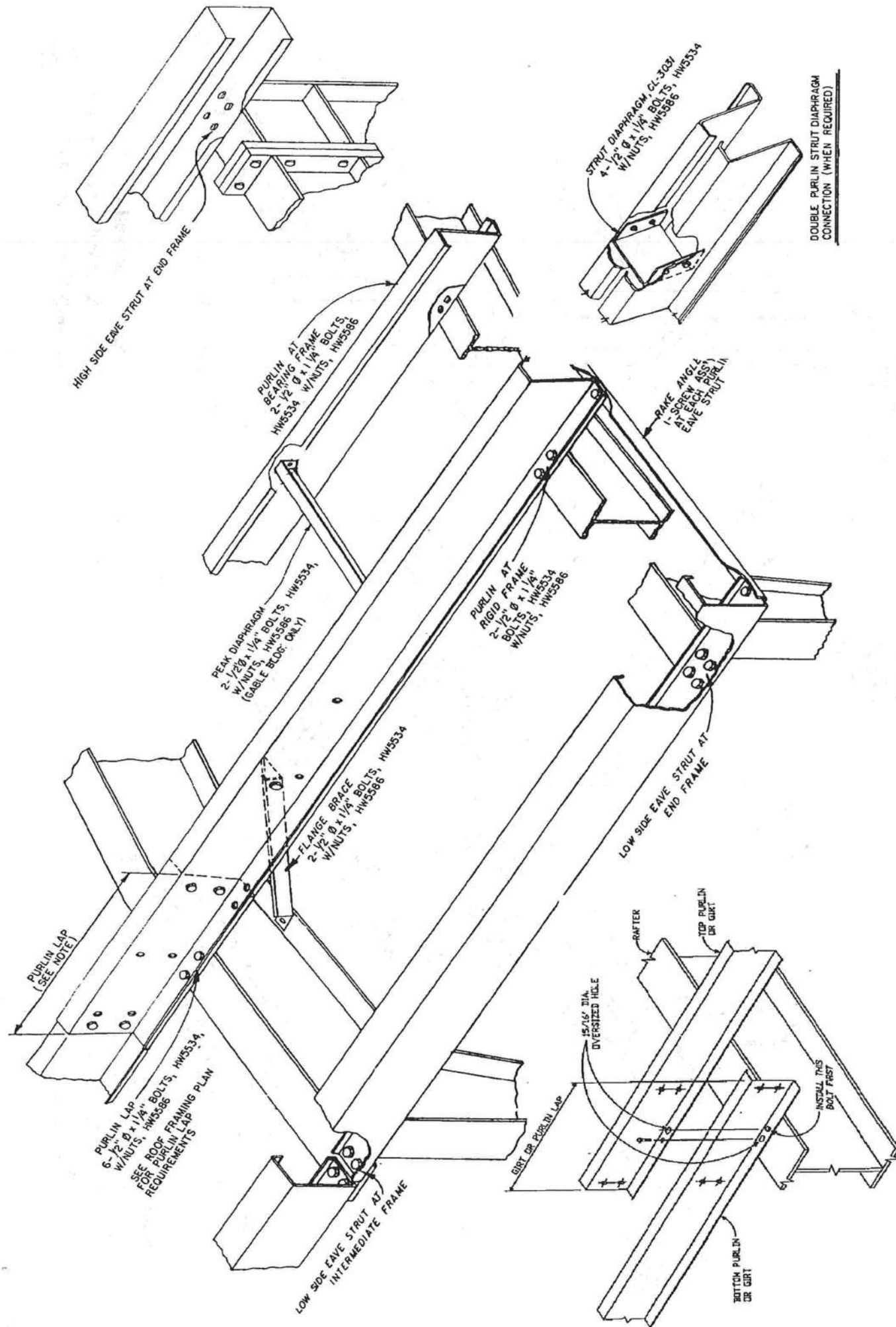
CAUTION:
USE ONLY 6 BOLTS AT EACH PURLIN LAP AS SHOWN ABOVE

**Roof Framing for
Insert Girt Bldgs.**

12.27.04



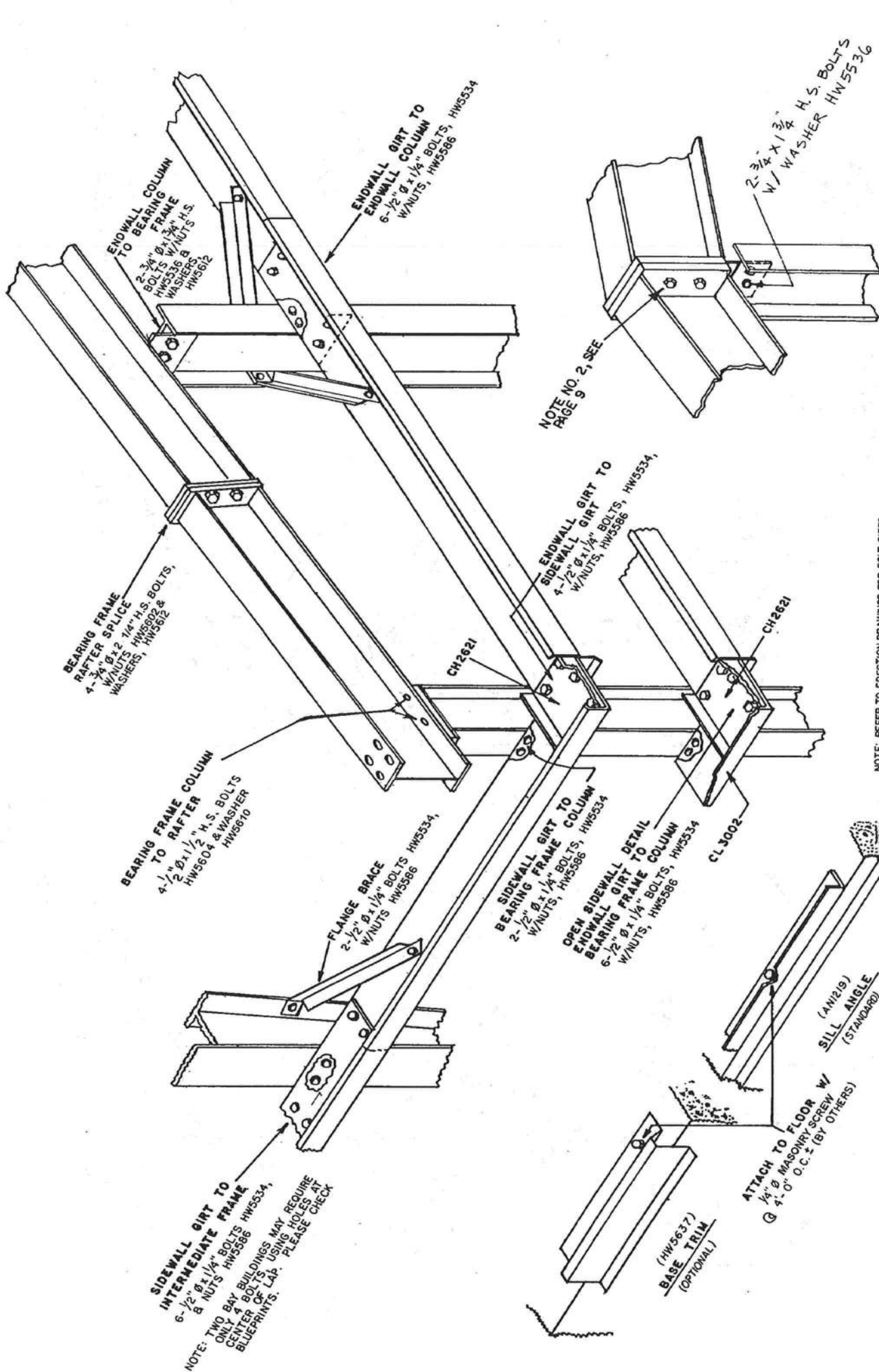
Bypass Girt Roof Framing



BOLTS ARE 1/2" X 1 1/4"
HW5534 V/HW5586 NUT
ENDBAY PURLIN/GIRTS DO NOT HAVE OVERSIZED HOLES

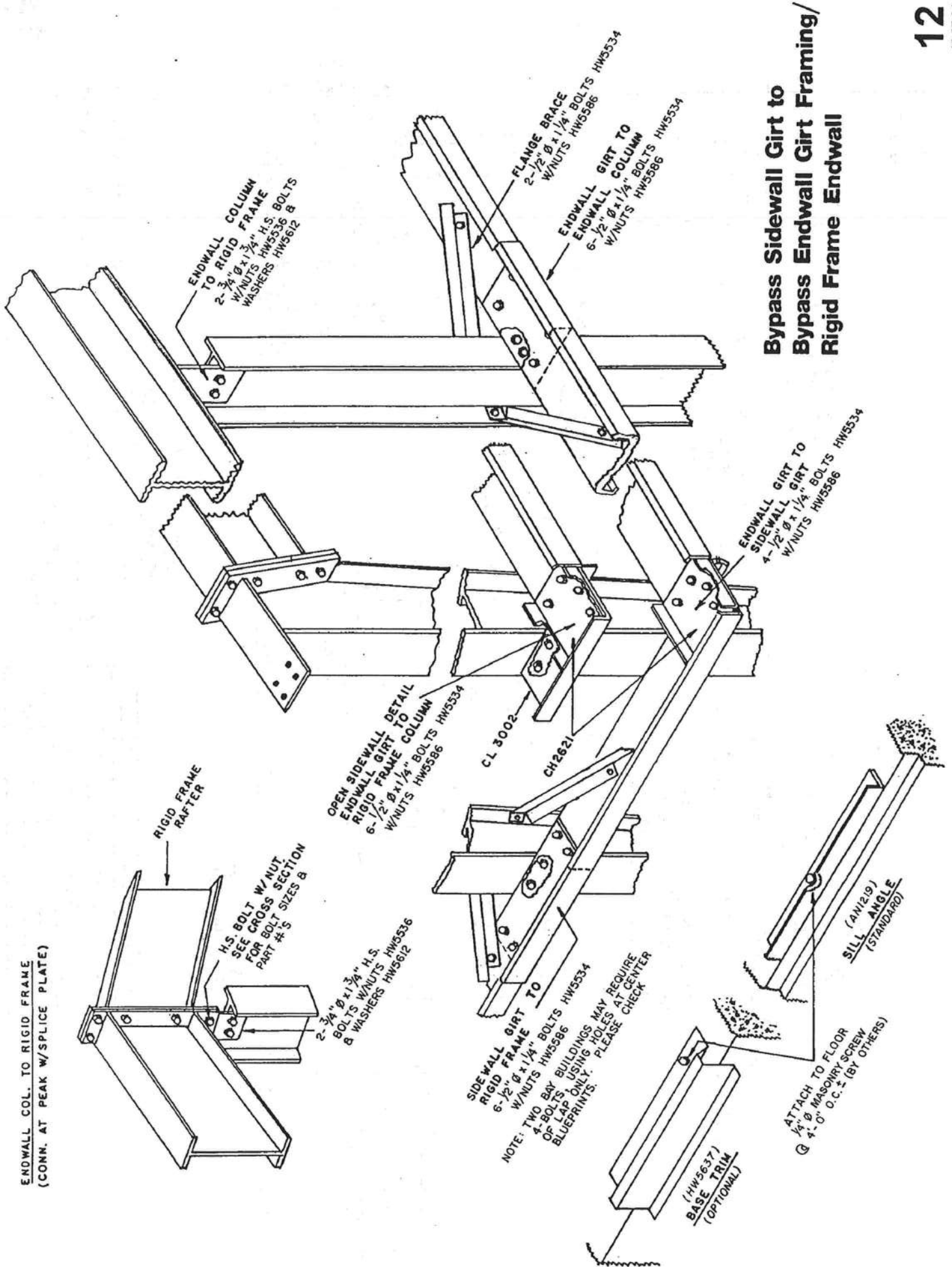
OPTIONAL

"E-Z LAP" DETAIL PURLIN & GIRT



NOTE: REFER TO ERECTION DRAWINGS FOR BOLT SIZES
AT BEARING FRAME CONNECTIONS
REFER TO PAGE 5 FOR ALTERNATE BEARING
FRAME COLUMN TO RAFTER CONNECTIONS

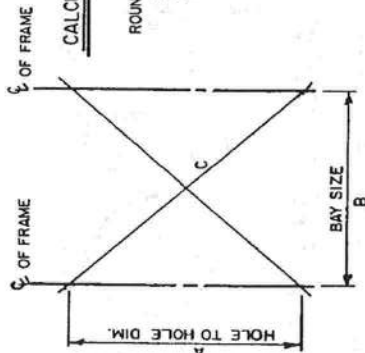
Bypass Sidewall Girt to Bypass Endwall Girt Framing/ Bearing Frame Endwall



Bypass Sidewall Girt to Bypass Endwall Girt Framing/ Rigid Frame Endwall

TO FIND THE LENGTH OF A CABLE W/O THE EYEBOLTS ATTACHED, TAKE THE XC "LENGTH" AND SUBTRACT AS FOLLOWS.

CABLE DIA.	MINUS DIMENSION
1/4"	2'-5"
5/16"	2'-7"
3/8"	2'-9"
7/16"	2'-11"
1/2"	3'-0"



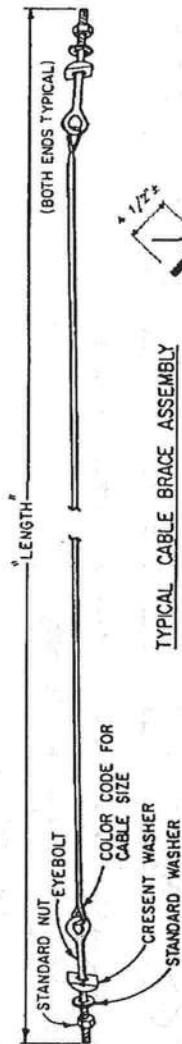
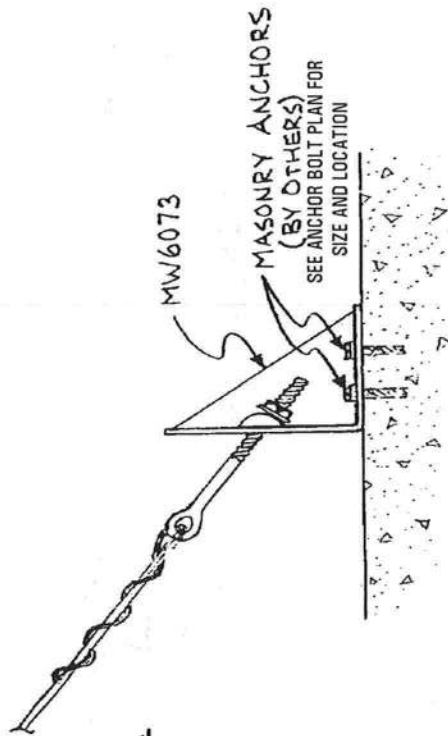
CALCULATING THE "LENGTH" OF CABLE AND ROD BRACING

$$A^2 + B^2 = C^2$$

ROUND C OFF TO THE NEAREST ONE THIRD OF A FOOT.

EX. : IF C = 22'-8 9/16", THEN C = 22'-9"

"LENGTH" = C + 9" → 22'-9" + 9" → 23'-6"



TYPICAL CABLE BRACE ASSEMBLY

BRACE GRIP COLOR CODE	CABLE DIA.	CABLE DIA. CODE	EYEBOLT TH'D. SIZE
YELLOW	1/4"	4	1/2"
BLACK	5/16"	5	5/8"
ORANGE	3/8"	6	5/8"
GREEN	7/16"	7	3/4"
BLUE	1/2"	8	7/8"

PART NO. IDENTIFICATION SYSTEM

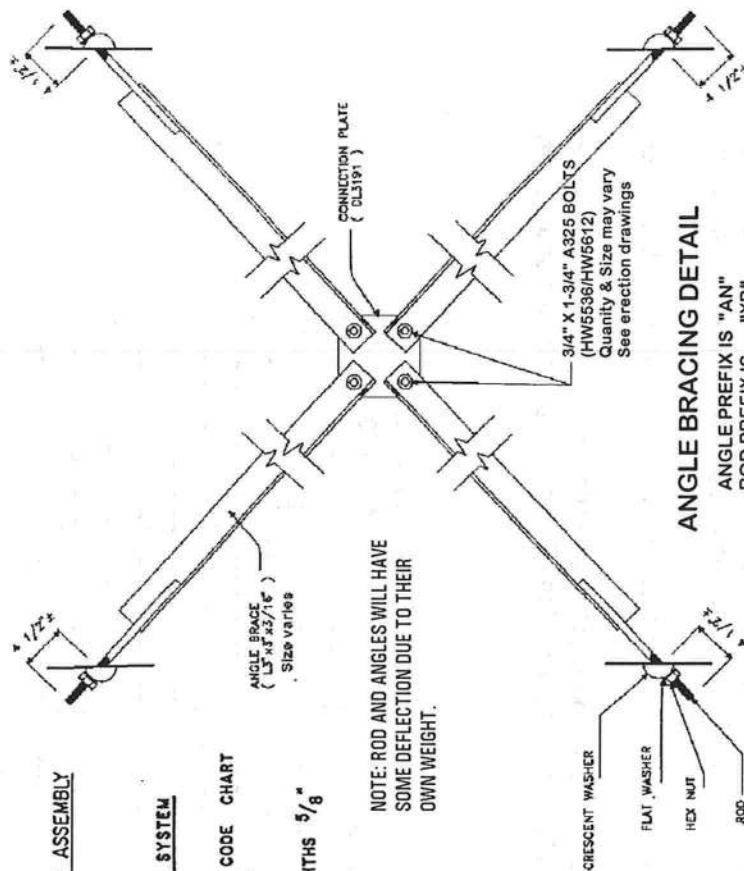
CABLE EXAMPLE XC2365

23'-6" LONG — SEE DIA. CODE CHART

(OPTIONAL) ROD EXAMPLE XB2365

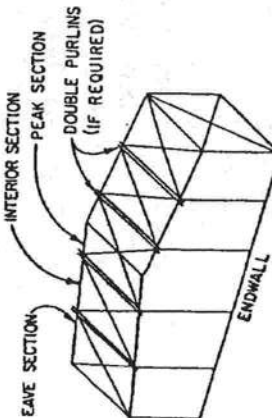
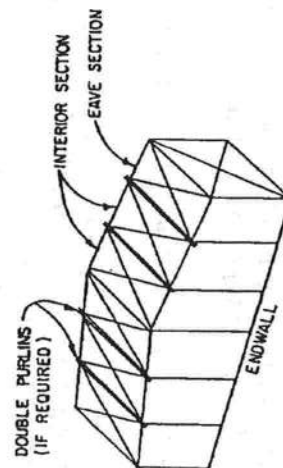
23'-6" LONG — DIA. IN EIGHTHS 5/8"

NOTE: ROD AND ANGLES WILL HAVE SOME DEFLECTION DUE TO THEIR OWN WEIGHT.



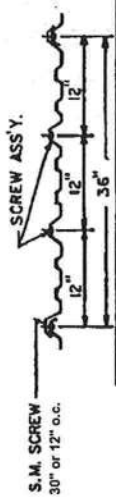
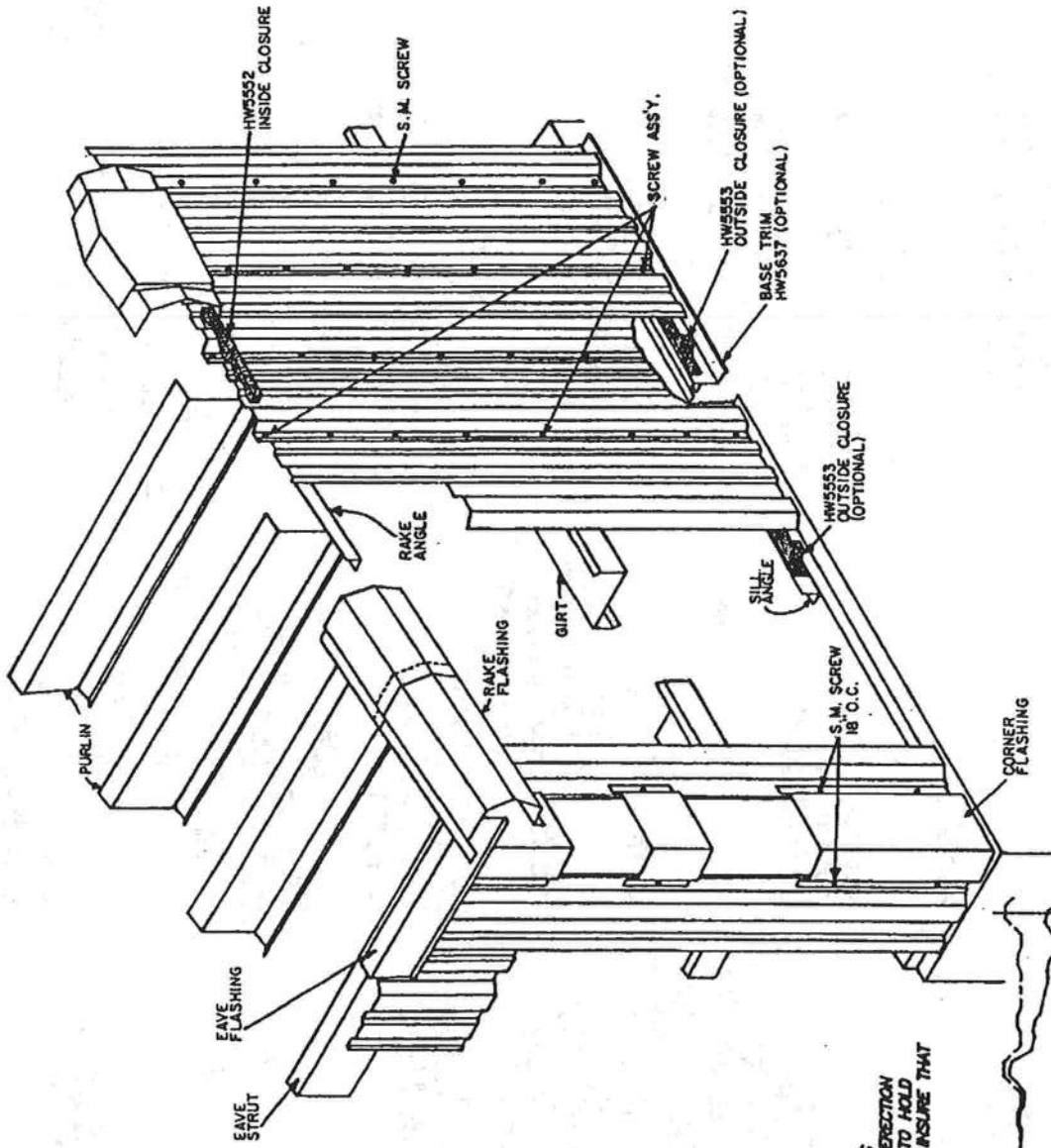
ANGLE BRACING DETAIL

ANGLE PREFIX IS "AN"
ROD PREFIX IS "XB"
CABLE PREFIX IS "XC"





Shadow Panel Wall Sheeting Details



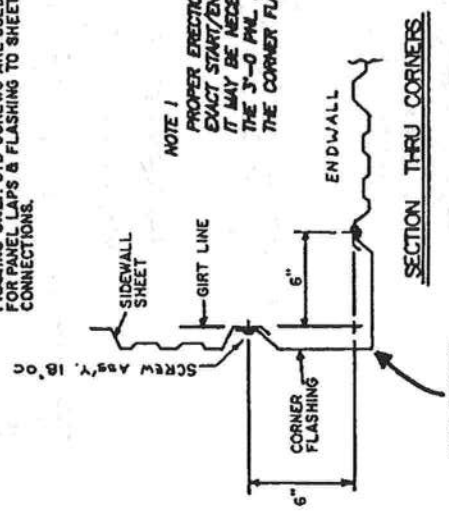
WALL FASTENER SPACING (INCLUDES DOUBLED GIRTS)

NOTE: SHADOW PANEL SHEETING IS THE RIB-12 PANEL REVERSED. THE ERECTOR MUST MAKE SURE THE FINISHED COLOR SIDE IS TO THE OUTSIDE.

NOTE: SWEEP ALL FILINGS FROM PANELS DURING & AFTER ERECTIONS.

NOTE: (OPTIONAL) SELF-DRILLING SCREWS S.D. SCREWS ARE USED FOR ATTACHING FLASHING & SHEETING TO SECONDARY FRAMING ONLY. STD SCREWS ARE USED FOR PANEL LAPS & FLASHING TO SHEETING CONNECTIONS.

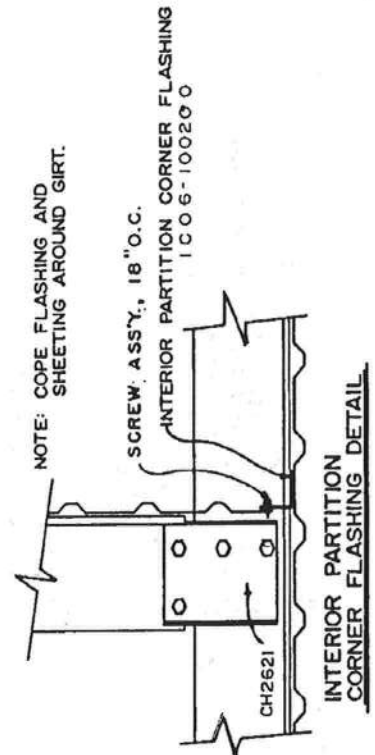
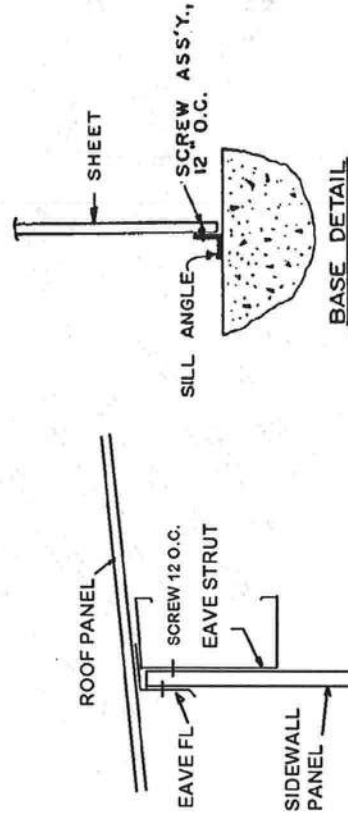
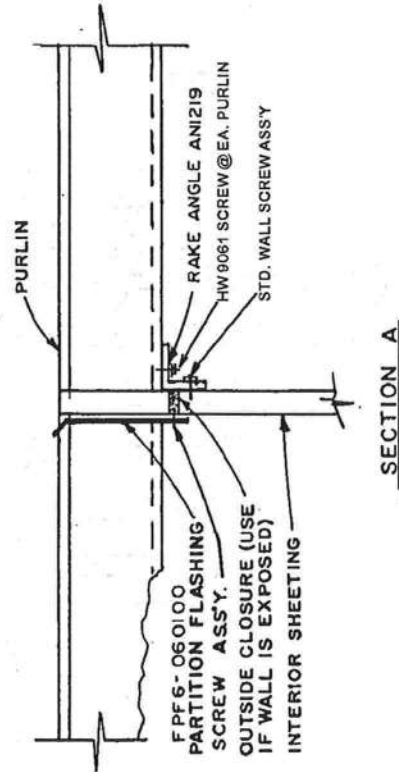
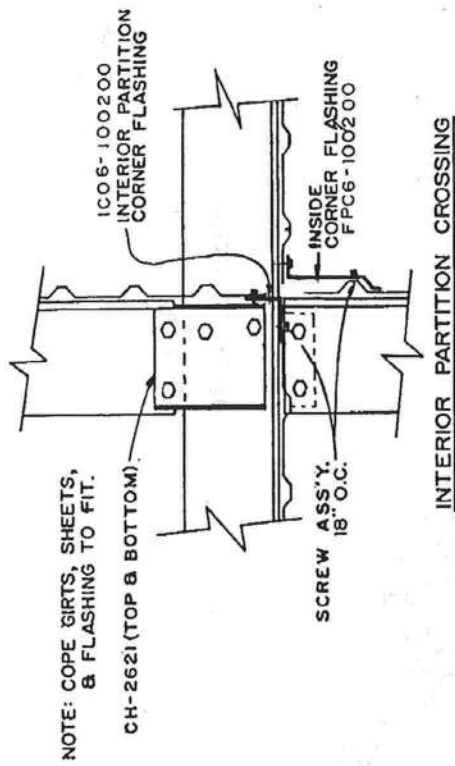
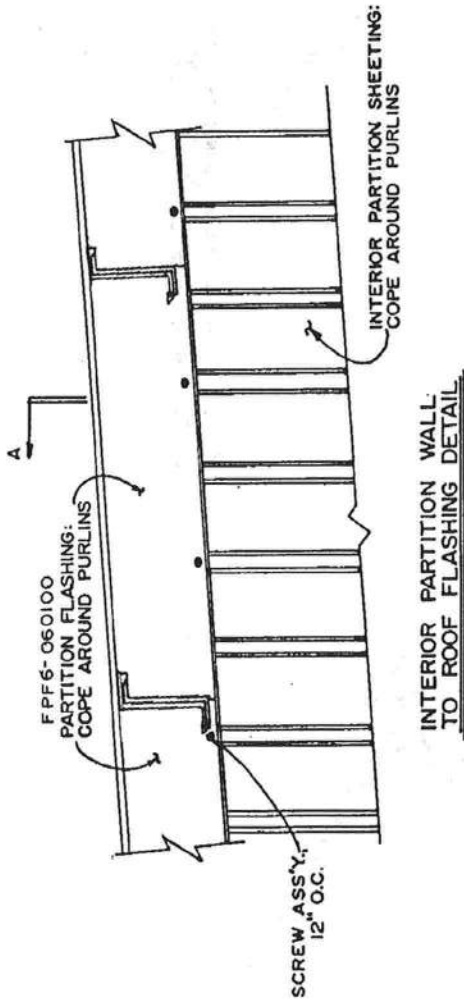
NOTE 1
PROPER ERECTION OF SHADOW PANELS. REQUIRES EXACT START/END DIMENSIONS. DURING PNL ERECTION IT MAY BE NECESSARY TO FIELD MODIFY PNLs TO HOLD THE 3'-0" PNL MODULE THAT IS REQUIRED TO INSURE THAT THE CORNER FLASHING FITS CORRECTLY.



SECTION THRU CORNERS

OCT6-LENGTH
(CONFIRM WITH CALL OUT ON CONSTRUCTION DRAWINGS)

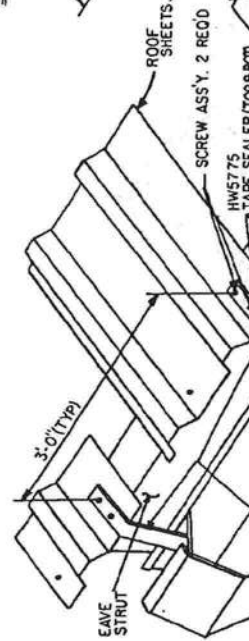
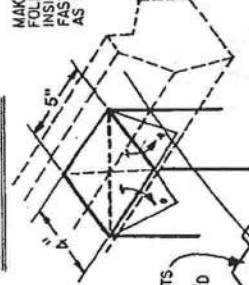




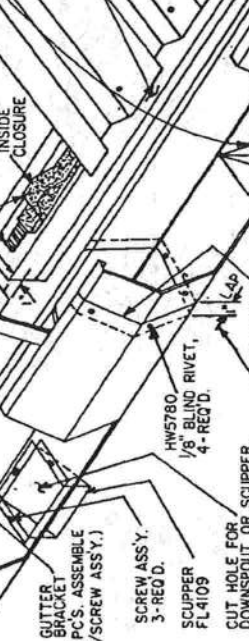
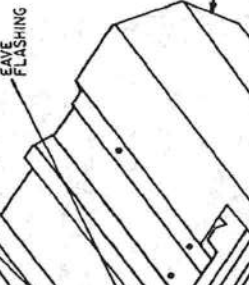
Interior Partition Details

DOWNSPOUT DETAIL

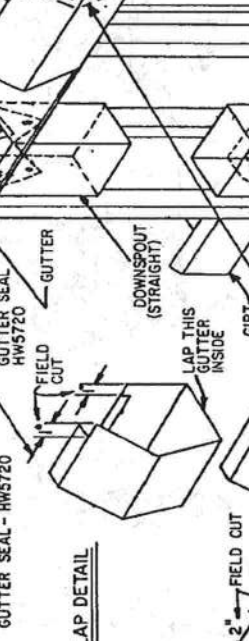
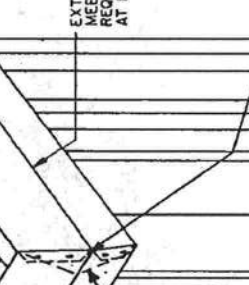
MAKE DIAGONAL CUTS, FOLD DOWN TABS INSIDE DOWNSPOUT FASTEN WITH 3 SCREWS AS SHOWN.



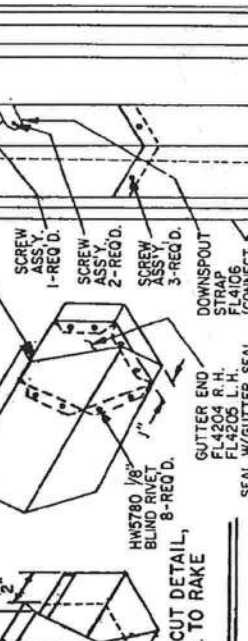
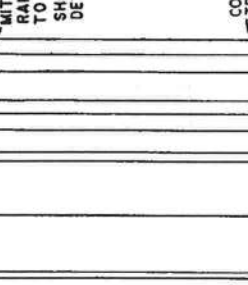
MAKE DIAGONAL CUTS, FOLD DOWN TABS INSIDE DOWNSPOUT FASTEN WITH 3 SCREWS AS SHOWN.



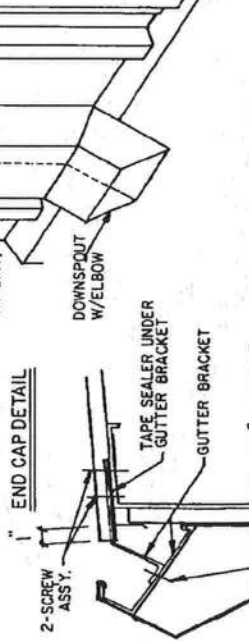
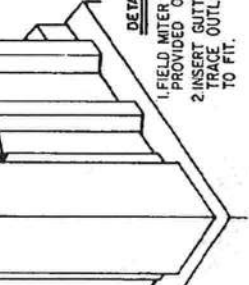
MAKE DIAGONAL CUTS, FOLD DOWN TABS INSIDE DOWNSPOUT FASTEN WITH 3 SCREWS AS SHOWN.



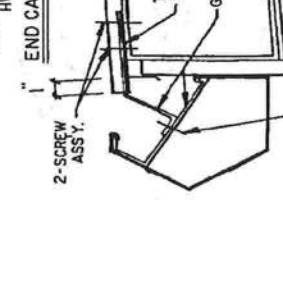
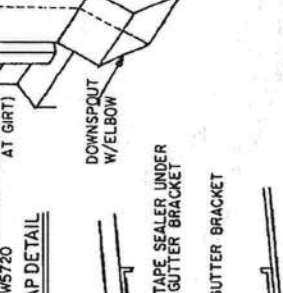
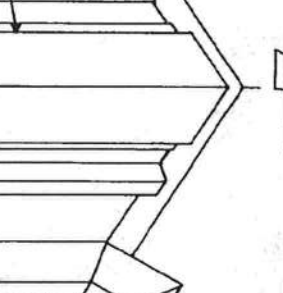
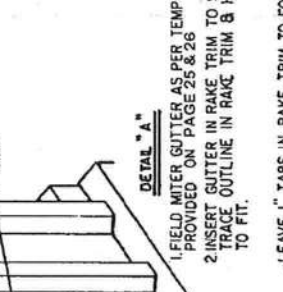
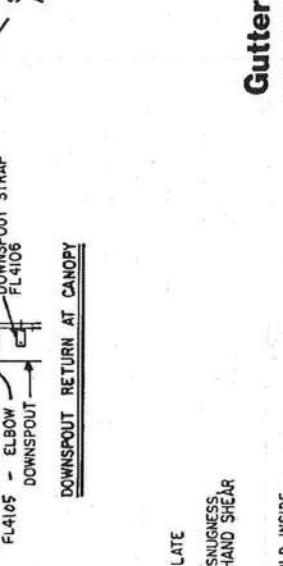
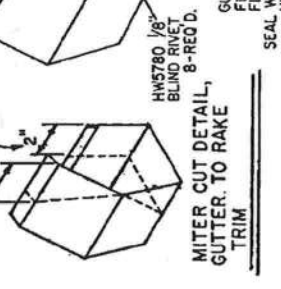
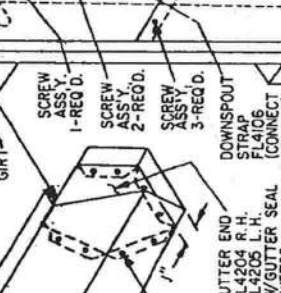
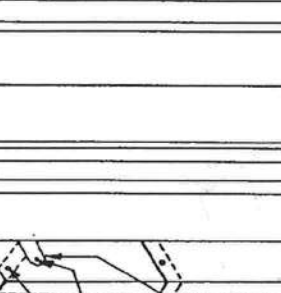
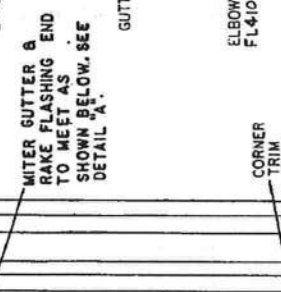
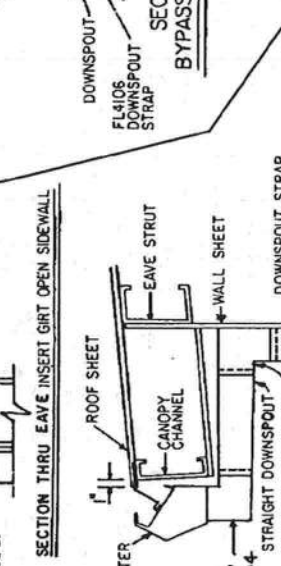
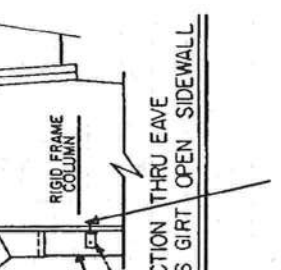
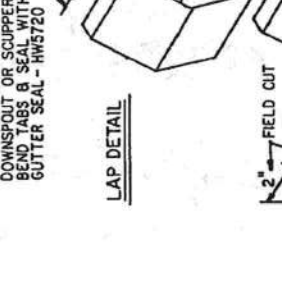
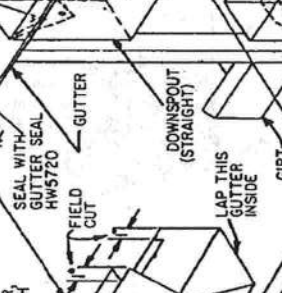
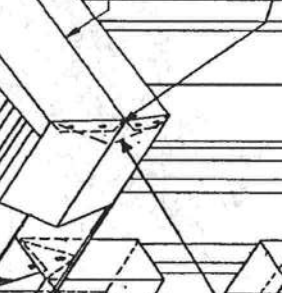
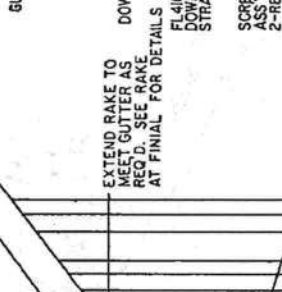
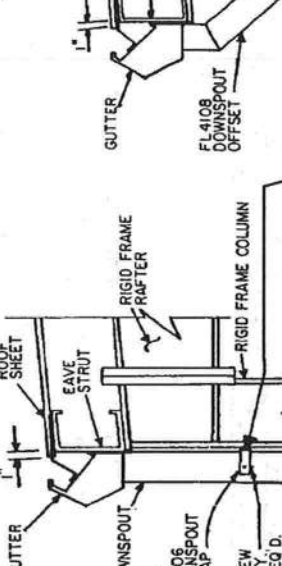
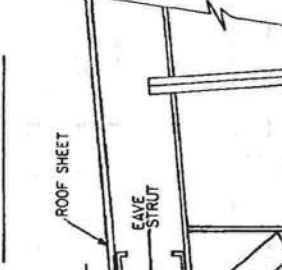
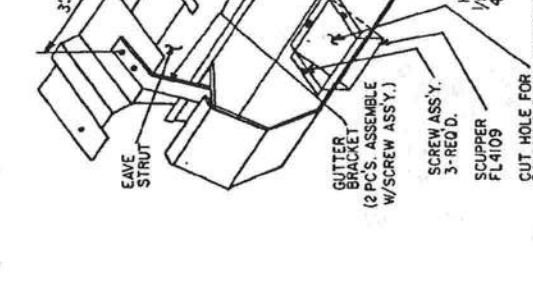
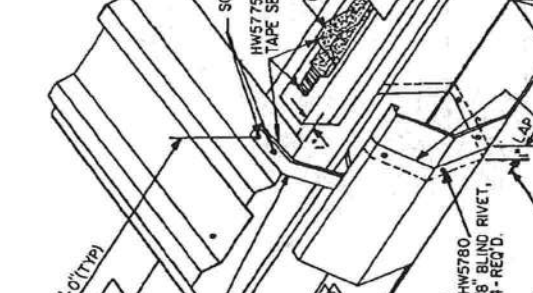
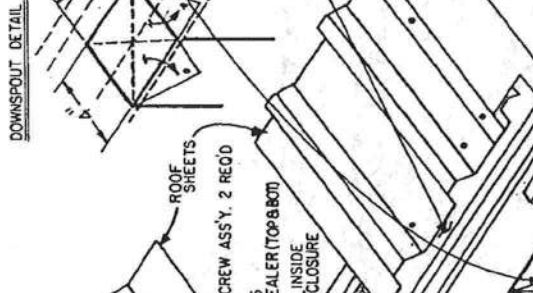
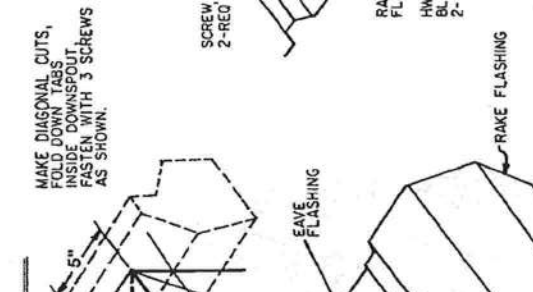
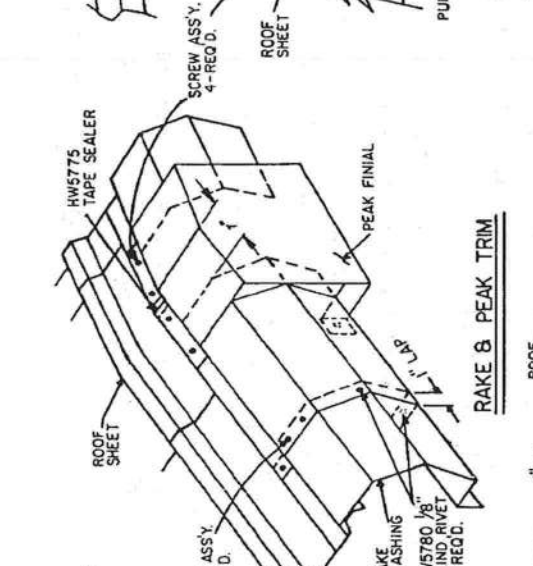
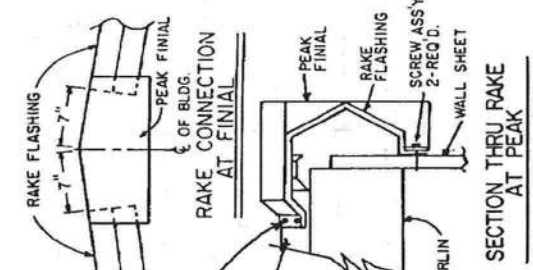
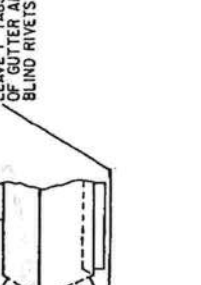
MAKE DIAGONAL CUTS, FOLD DOWN TABS INSIDE DOWNSPOUT FASTEN WITH 3 SCREWS AS SHOWN.

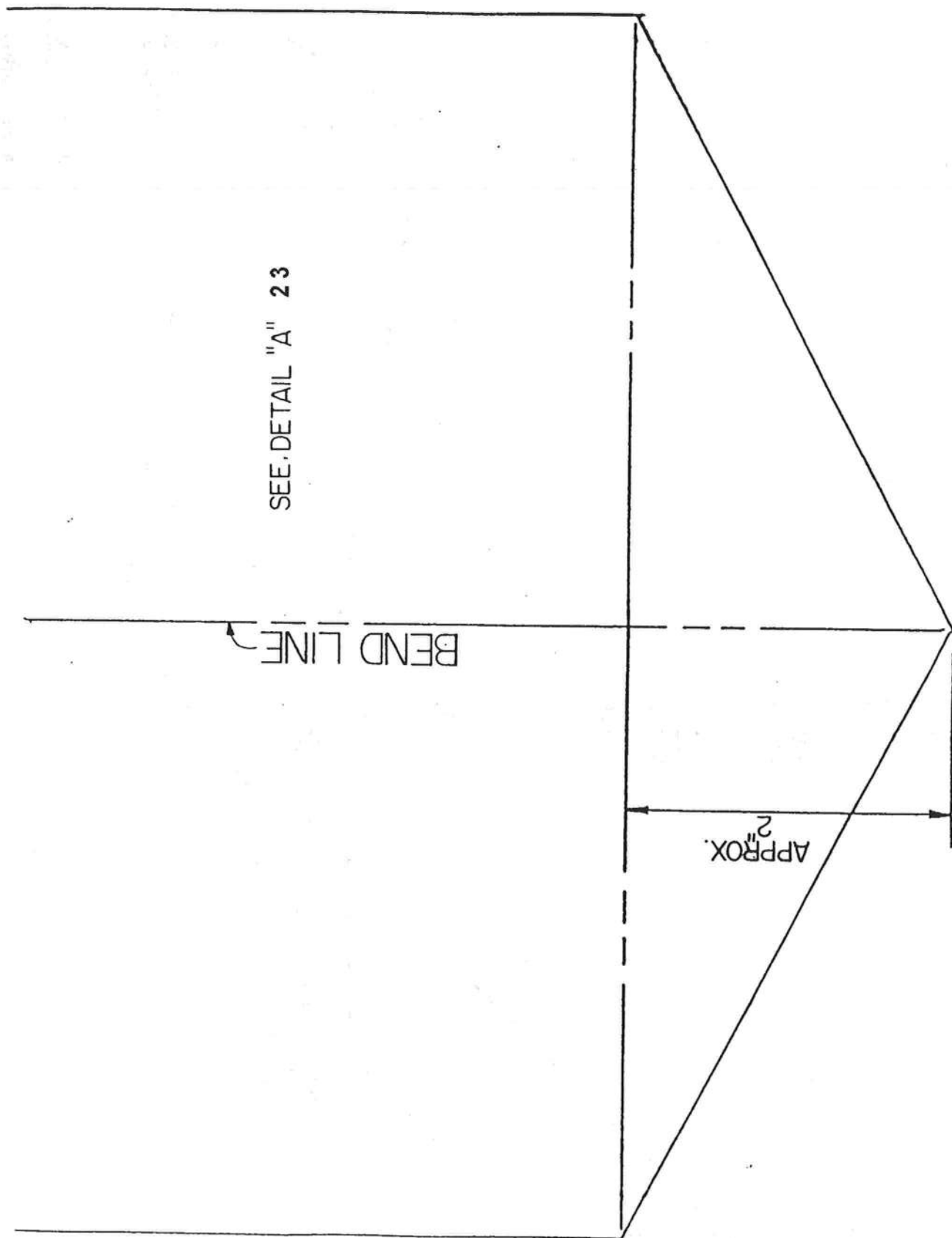


MAKE DIAGONAL CUTS, FOLD DOWN TABS INSIDE DOWNSPOUT FASTEN WITH 3 SCREWS AS SHOWN.

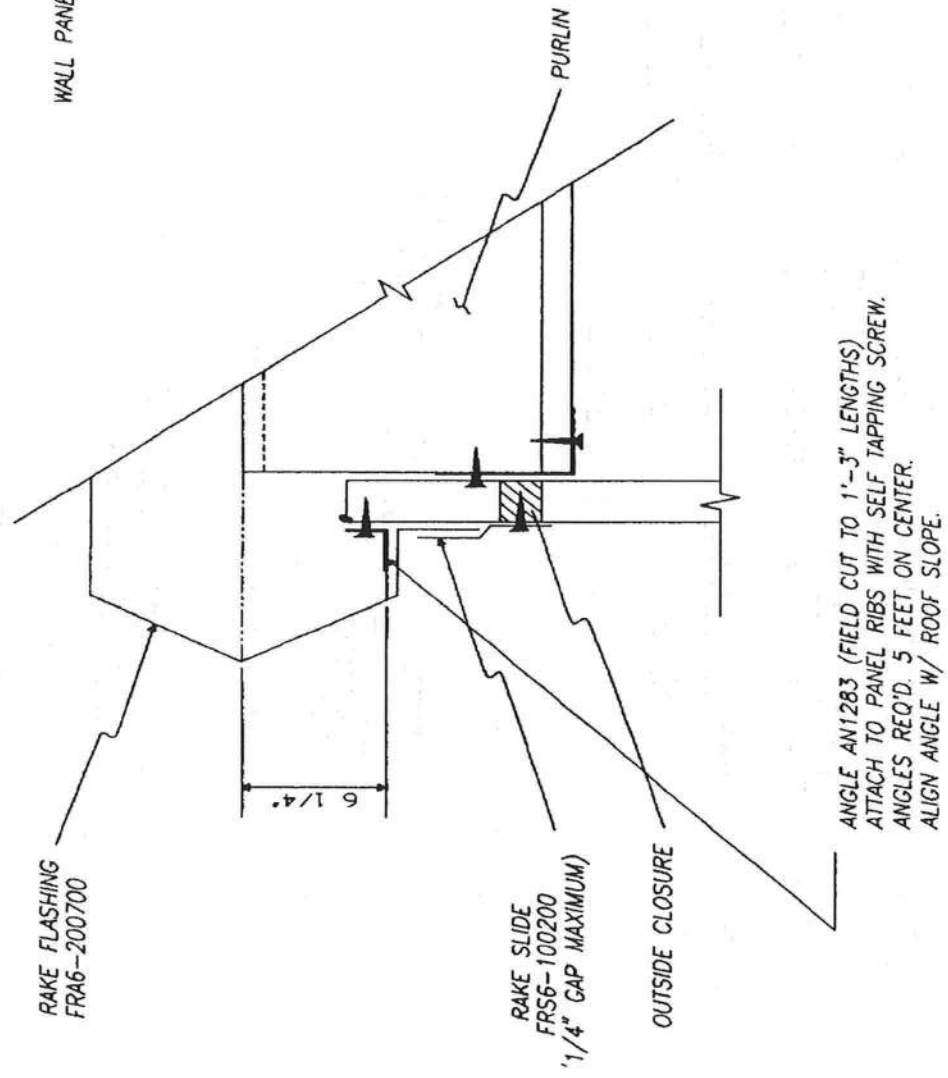
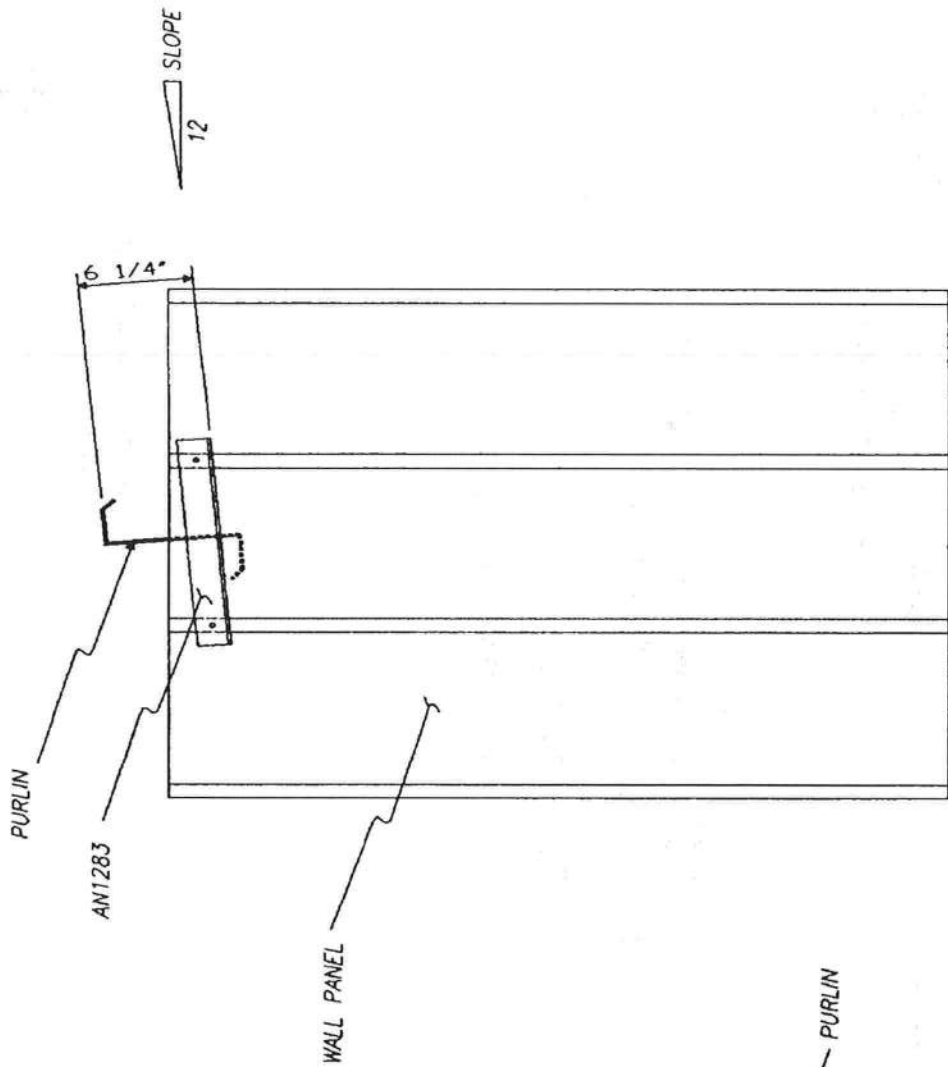


MAKE DIAGONAL CUTS, FOLD DOWN TABS INSIDE DOWNSPOUT FASTEN WITH 3 SCREWS AS SHOWN.





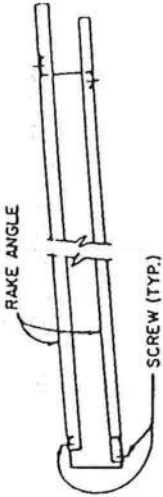
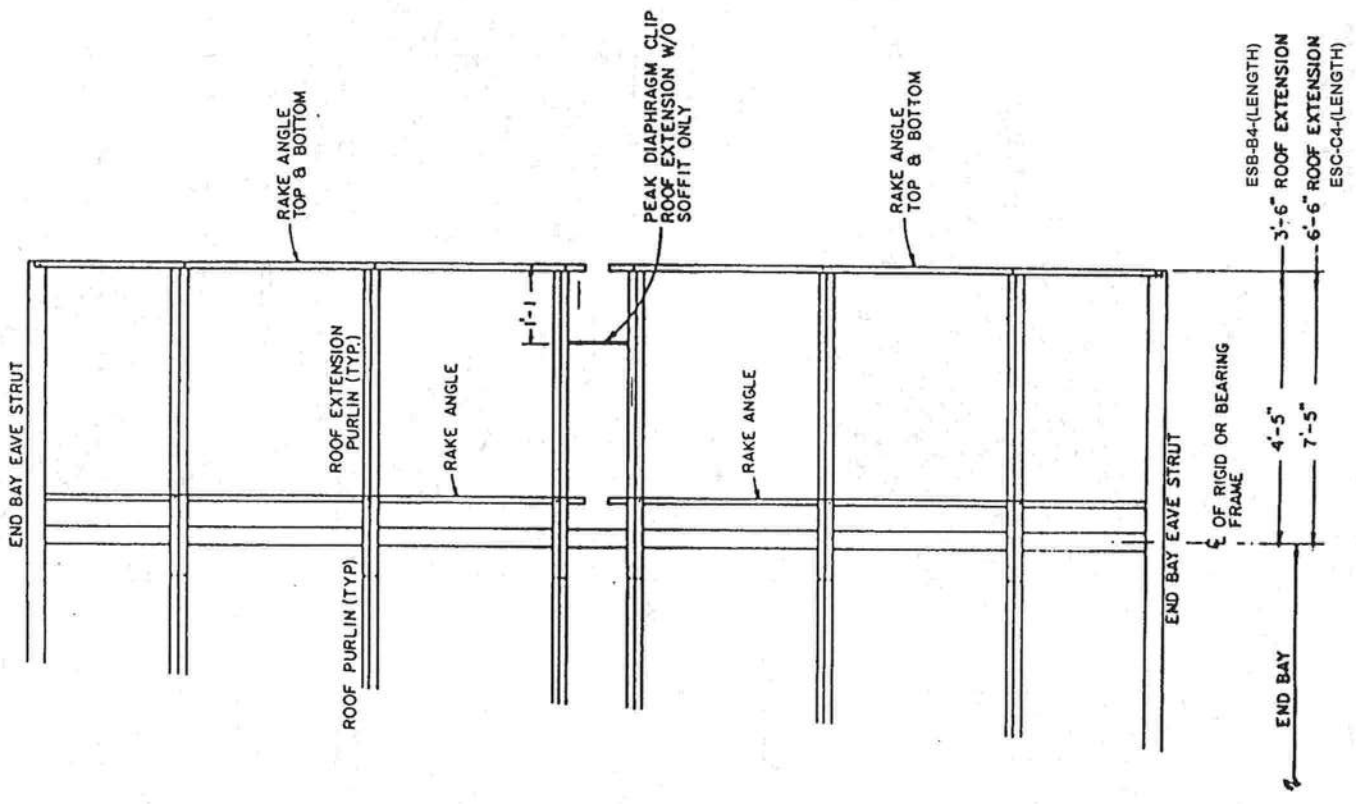
Gutter Miter Template



NOTE: RETAINER ANGLES ARE TO KEEP RAKE FLASHING FROM BECOMING DISENGAGED FROM THE RAKE SLIDE IN HIGH WIND CONDITIONS.

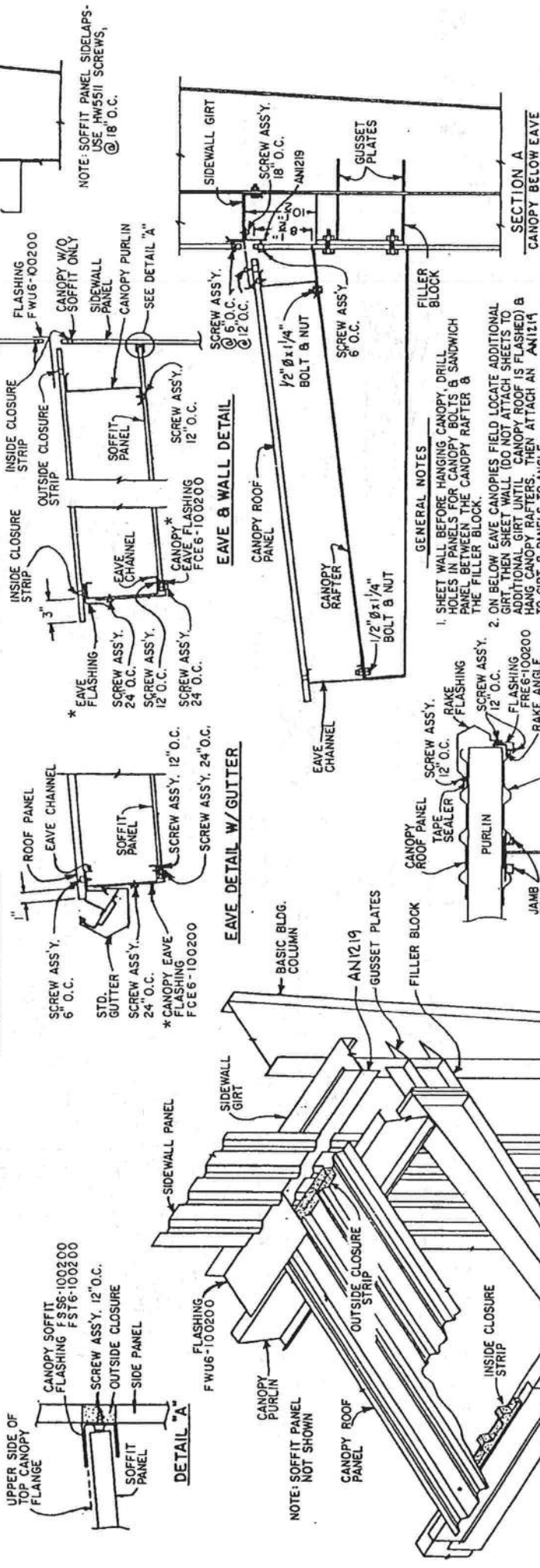
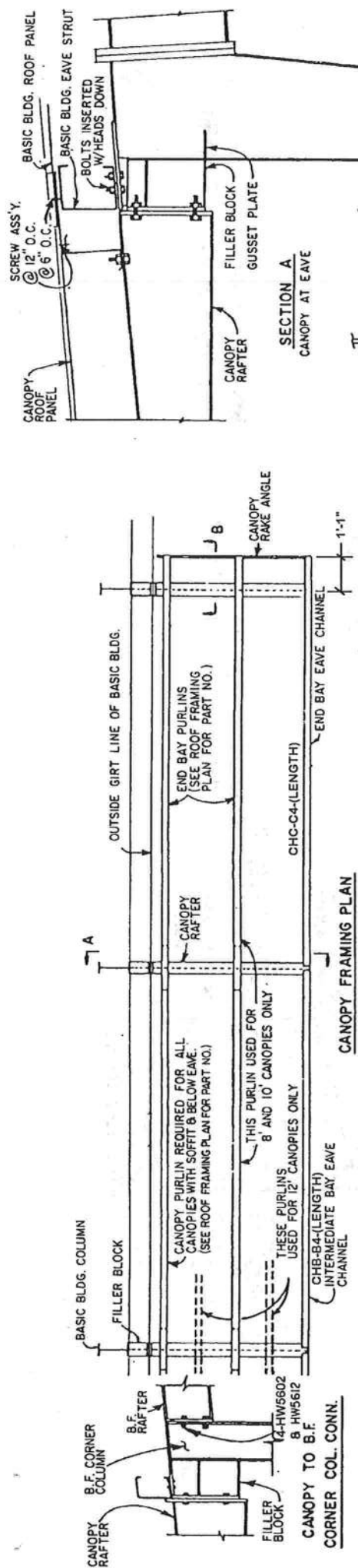
RAKE SLIDES & RETAINER ANGLE ARE PROVIDED ON GABLED BUILDINGS 120' WIDE AND GREATER AND ON SINGLE SLOPE BUILDINGS 60' WIDE AND GREATER.

Rake slide Retainer Angle



RAKE ANGLE CONNECTION

Roof Extension Framing Details

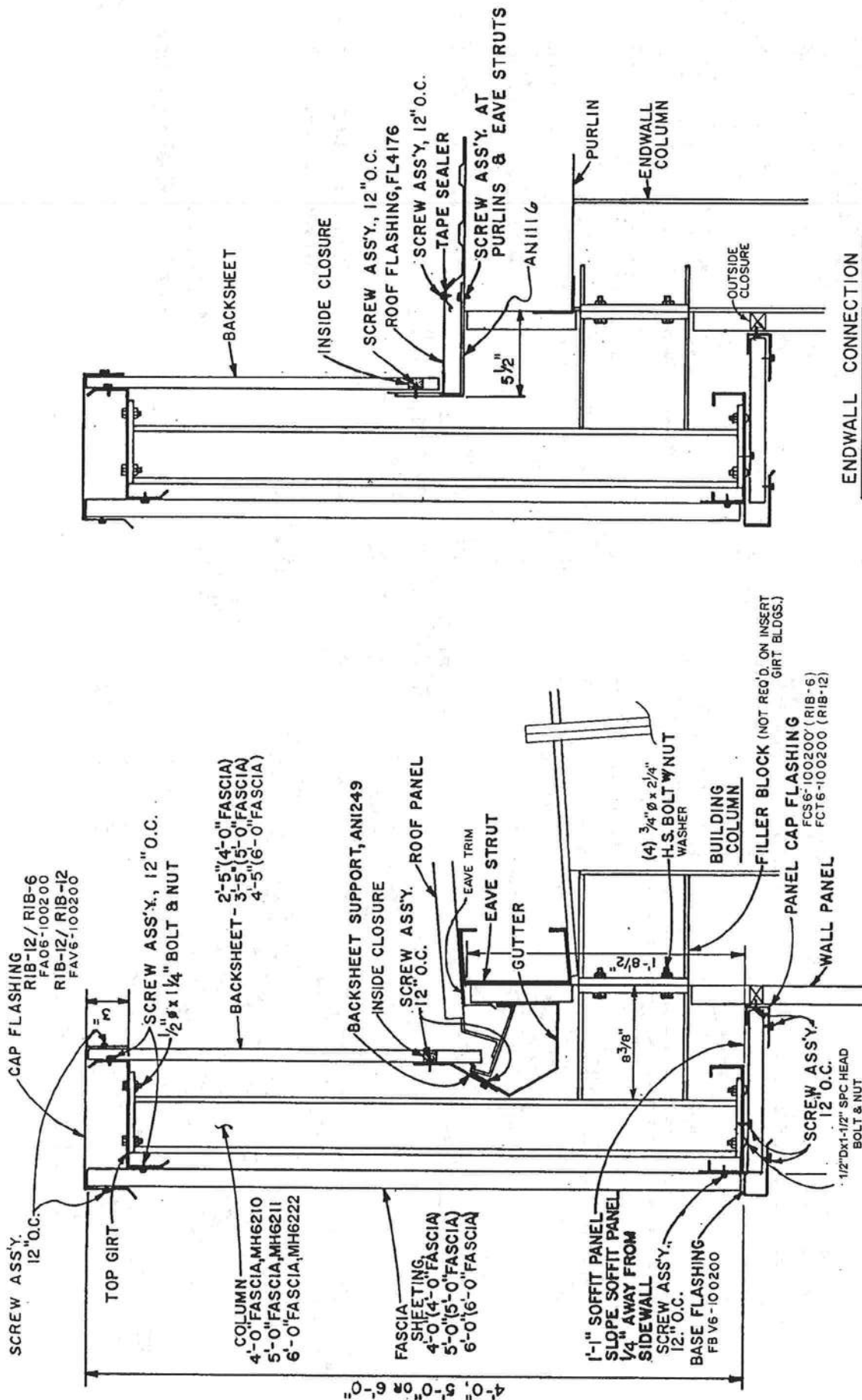


GENERAL NOTES

1. SHEET WALL BEFORE HANGING CANOPY. DRILL HOLES IN PANELS FOR CANOPY BOLTS & SANDWICH PANEL BETWEEN THE CANOPY RAFTER & THE FILLER BLOCK.
2. ON BELOW EAVE CANOPIES FIELD LOCATE ADDITIONAL GIRT. THEN SHEET WALL (DO NOT ATTACH SHEETS TO ADDITIONAL GIRT UNTIL CANOPY ROOF IS FLASHED) & HANG CANOPY RAFTERS. THEN ATTACH AN1219 TO GIRT & PANELS TO ANGLE.
3. FOR CANOPY ROOF FASTENERS & TAPE SEALER SEE STD. SHEETING ISOMETRIC.
- * 4. STANDARD AND CANOPY EAVE FLASHINGS ARE ONLY PROVIDED WHEN THERE IS A SOFFIT ON THE CANOPY.

Tapered Beam Canopy Framing, Sheeting & Flashing Details

CANOPY	PART NO.	BOLTS	WASHERS
4'	RR 6549	(4)-HW5602	(4)-HW5612
6'	RR 6550	(4)-HW5539	(4)-HW5612
8'	RR 6551	(4)-HW5539	(4)-HW5612
10'	RR 6552	(8)-HW5539	(8)-HW5612
12'	RR 6553	(8)-HW5539	(8)-HW5612
5'	RR 6560	(4)-HW5602	(4)-HW5612



ENDWALL CONNECTION

DETAILS NOT NOTED SAME AS
SIDEWALL CONNECTION

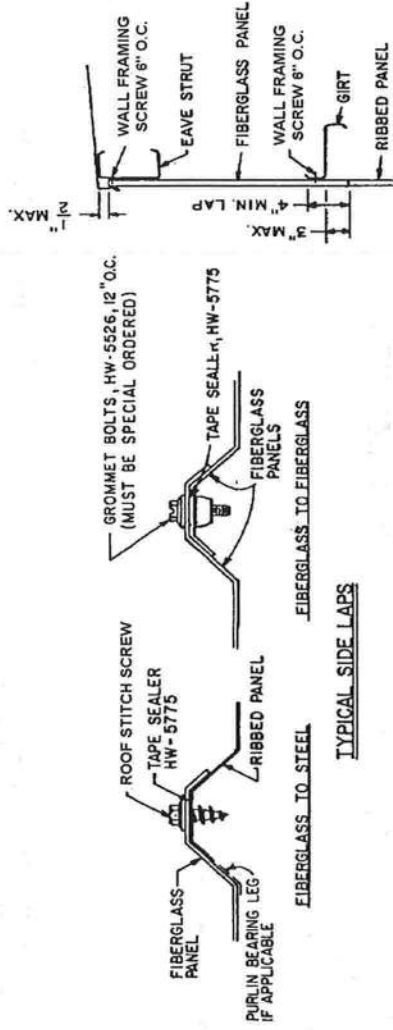
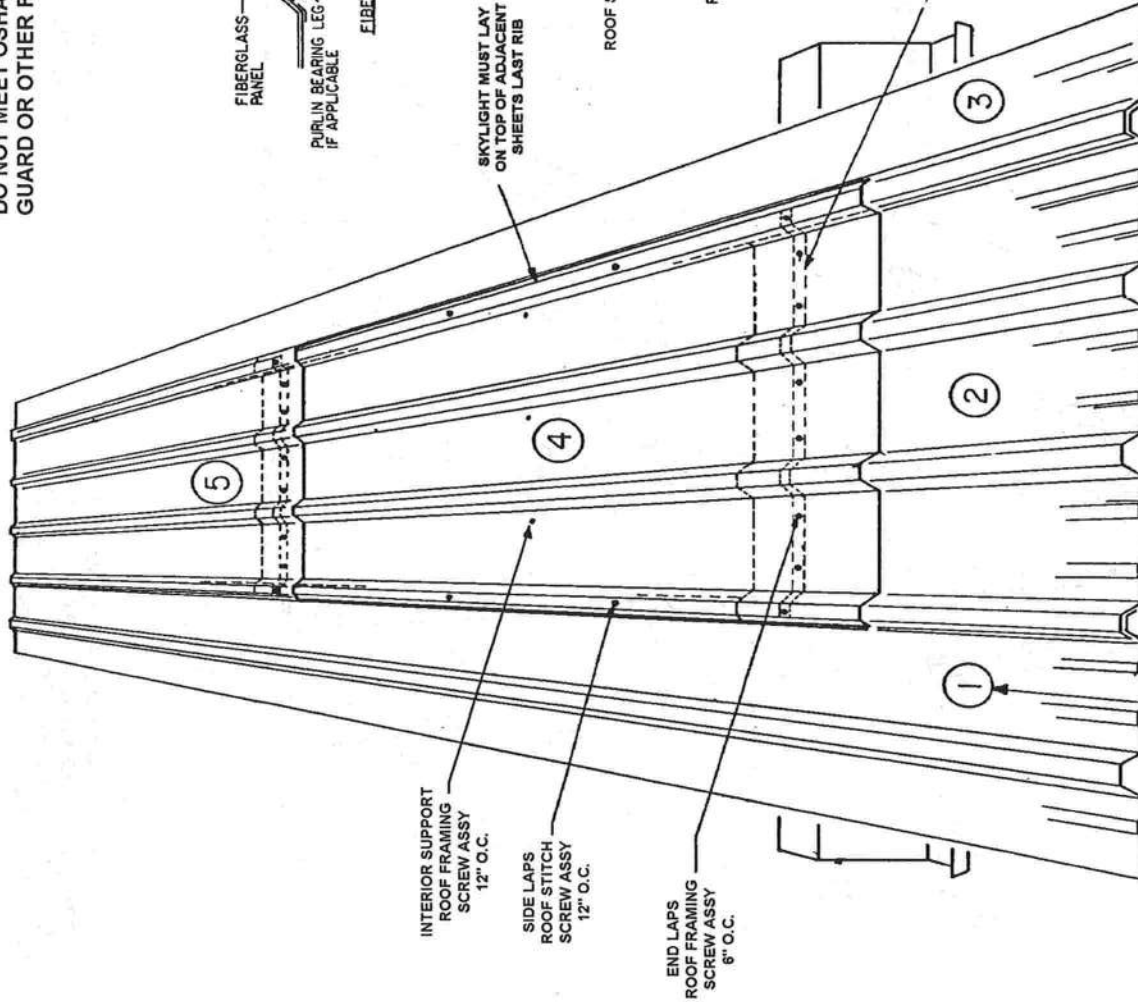
SIDEWALL CONNECTION

STANDARD PROJECTION
1-1/2"

- GENERAL NOTES
1. SHEET WALL BEFORE HANGING FASCIA. DRILL HOLES IN PANELS FOR FASCIA BOLTS & SANDWICH PANEL BETWEEN THE FASCIA FRAME & THE FILLER BLOCK. THE ERECTOR IS RESPONSIBLE FOR WEATHERTIGHTNESS OF THE BUILDING AT THE FASCIA FRAME CONNECTION.
 2. DEAN STD. GUTTER IS DESIGNED TO OVERFLOW DURING EXCESSIVE RAINFALL.
 3. IN HIGHER WIND LOADS, THE STANDARD PROJECTION MAY CHANGE TO 1-4 1/2" AS THE FASCIA BEAM CHANGES FROM W4X13 TO W8X10.

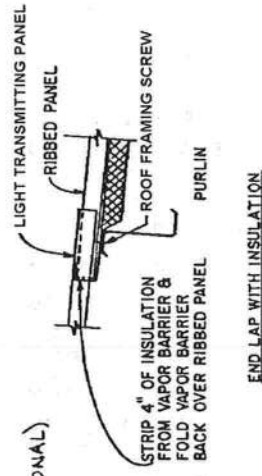
Vertical Fascia Cross Section

NOTE: DSB PROVIDED LIGHT TRANSMITTING PANELS
DO NOT MEET OSHA FALL PROTECTION REQUIREMENTS.
GUARD OR OTHER FALL PROTECTION DEVICE REQUIRED.

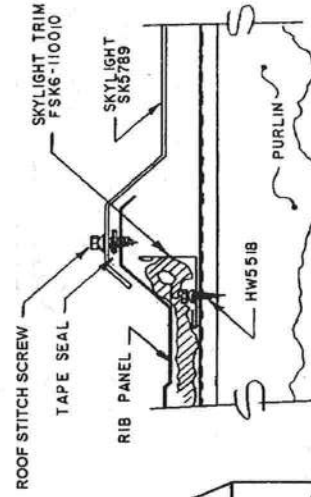


TYPICAL SIDE LAPS

TYPICAL FIBERGLASS WALL PANEL INSTALLATION



SKYLIGHT TRIM (OPTIONAL)



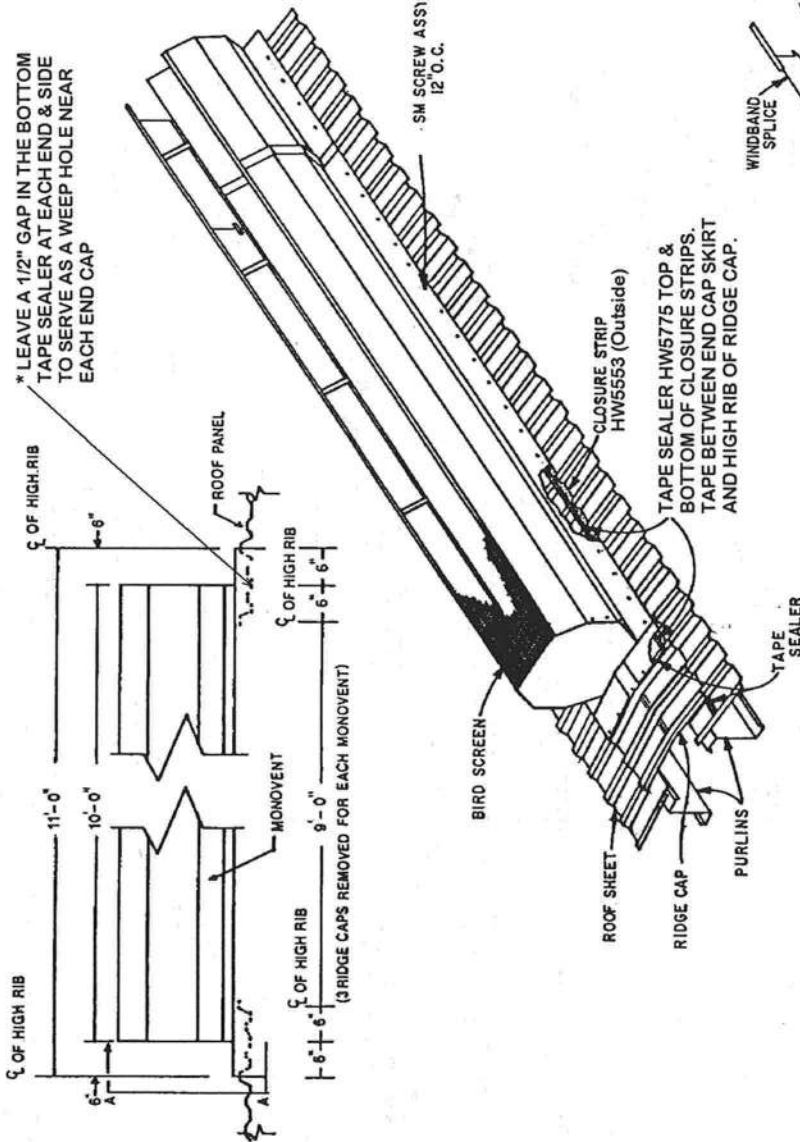
SKYLIGHT TRIM INSTALLATION
IF SKYLIGHT TRIM IS NOT USED,
ROLL BACK INSULATION AS REQUIRED.

CAUTION

DO NOT STAND ON LIGHT TRANSMITTING PANELS.
LTP'S ARE NOT DESIGNED TO CARRY CONCENTRATED
LOAD. STANDING ON LTP'S MAY CAUSE THE PANEL
TO FAIL RESULTING IN SEVERE PERSONAL INJURY.

FOR UL-90 SKYLIGHT KITS
REFER TO UL CONSTRUCTION #167
FOR INSTALLATION INSTRUCTIONS

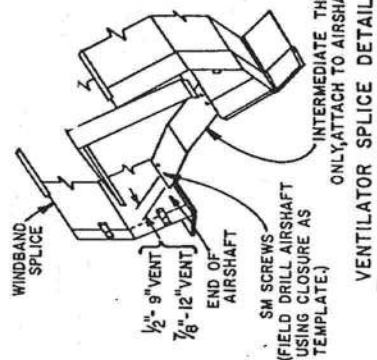
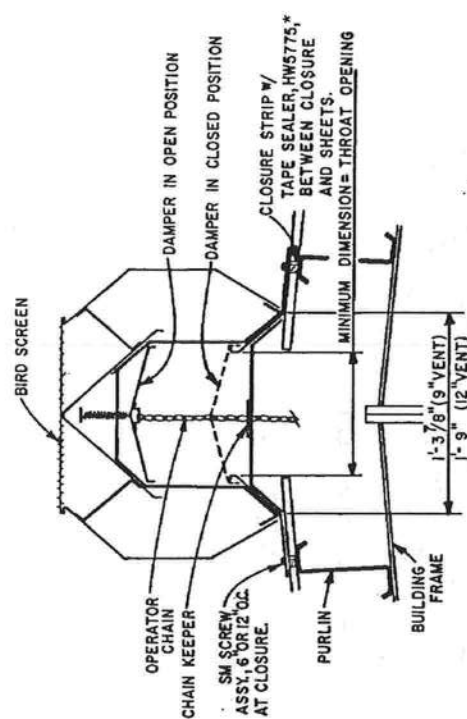
Standard Skylight Details LIGHT TRANSMITTING PANELS



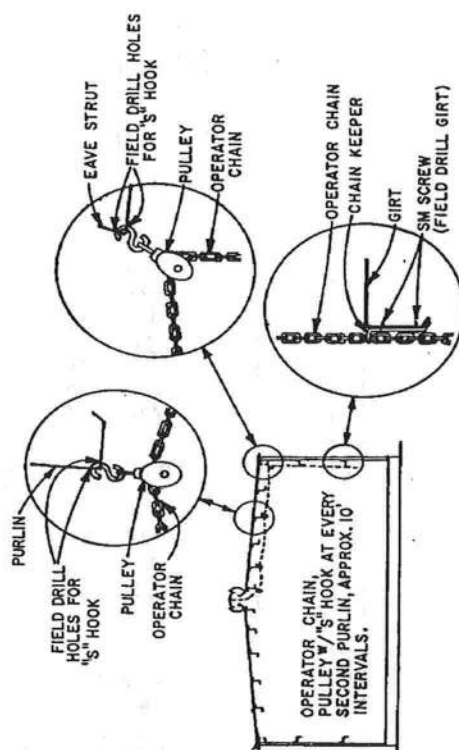
NOTE: MONOVENTS MAY NOT BE 100% WEATERTIGHT IN SOME STORM CONDITIONS. CONDENSATION ON VENTS CAN ALSO PRODUCE MOSQUITO INFILTRATION OF THE BUILDING SYSTEM.

* LEAVE A 1/2" GAP IN THE BOTTOM TAPE SEALER AT EACH END & SIDE TO SERVE AS A WEEP HOLE NEAR EACH END CAP

SECTION THRU VENTILATOR WITH DAMPER



ALL VENTS ARE SHIPPED WITH END CAPS REMOVE CAP AND SPLICE AS SHOWN ABOVE FOR CONTINUOUS VENT OPERATION



SUGGESTED DIAGRAM FOR INSTALLATION OF OPERATOR CHAIN
(PARTS SHOWN NOT SUPPLIED)

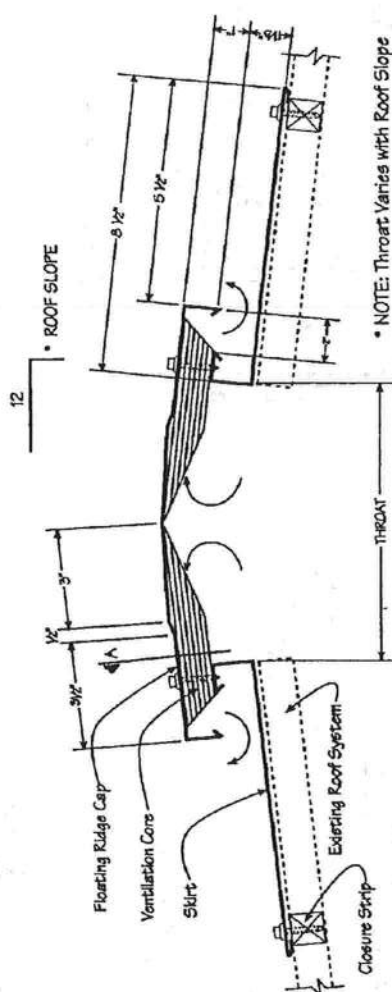
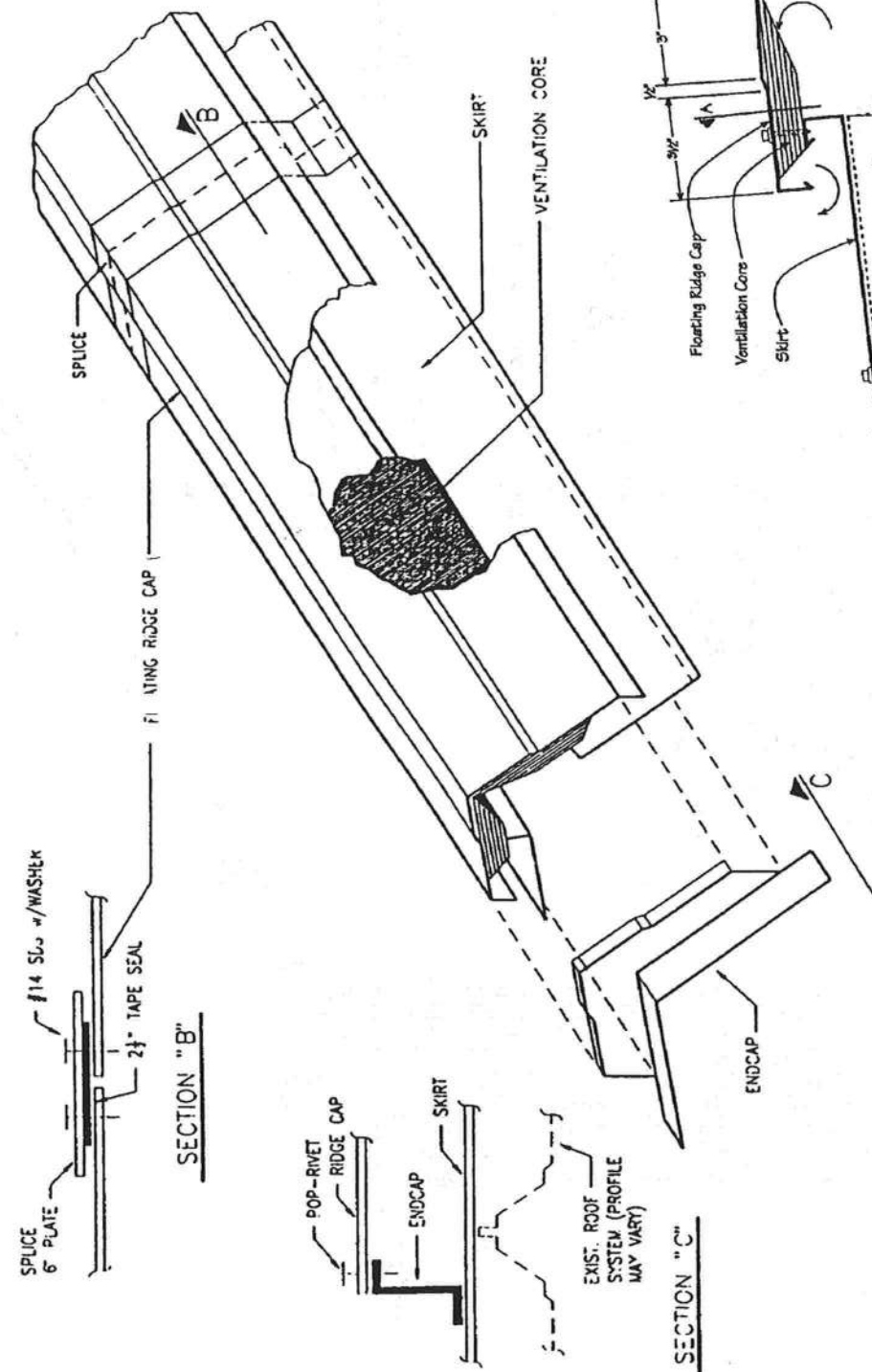
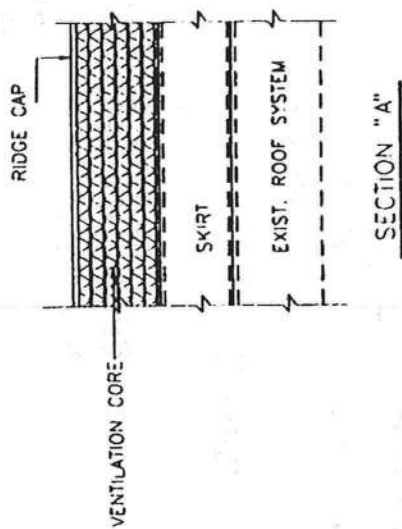
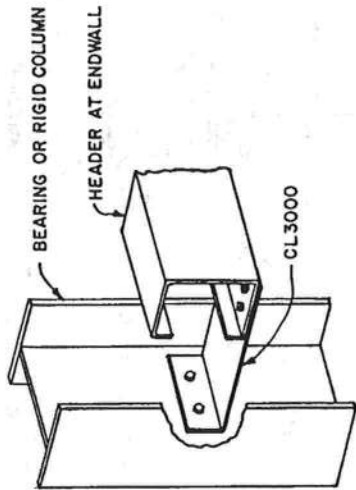


TABLE A						
Air Movement per Lineal Foot Factors						
HEIGHT IN FEET	Temperature Difference					
	5°	10°	15°	20°	25°	30°
10	16.65A	22.05A	26.10A	28.80A	31.50A	34.20A
15	18.90A	27.00A	31.95A	36.00A	38.70A	41.40B
20	23.85A	31.50A	36.45A	41.40A	44.50B	48.15B
25	26.10A	34.65A	40.05A	45.00B	48.60B	53.10C
30	28.35A	37.35A	43.65B	48.60B	52.65C	57.60C
35	29.70A	39.15B	45.90B	51.30B	55.80C	60.75C
40	31.50B	41.85B	48.60B	54.90C	58.50C	63.45C
45	33.30B	43.20B	50.40B	57.60C	62.10C	66.60C
50	34.65B	45.45B	53.10C	59.85C	64.80C	70.20D

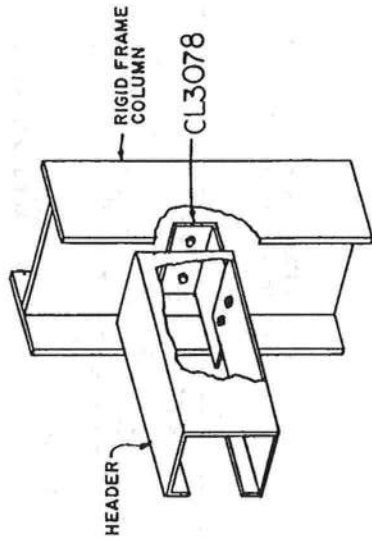
TABLE B				
Wind Velocity Factors				
WIND M.P.H.	Factors			
	A	B	C	D
3	1.14	1.09	1.05	1.02
5	1.25	1.18	1.13	1.09
7	1.41	1.29	1.22	1.16
9	1.62	1.43	1.33	1.25
11	1.82	1.57	1.43	1.32

TOTAL CFM = (Table A) X (Table B) X Length

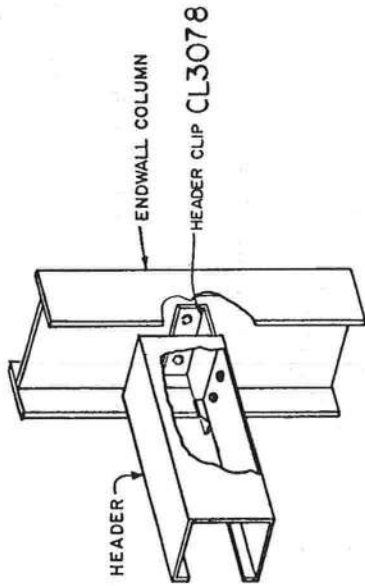
Lo-Profile Ridge Vent



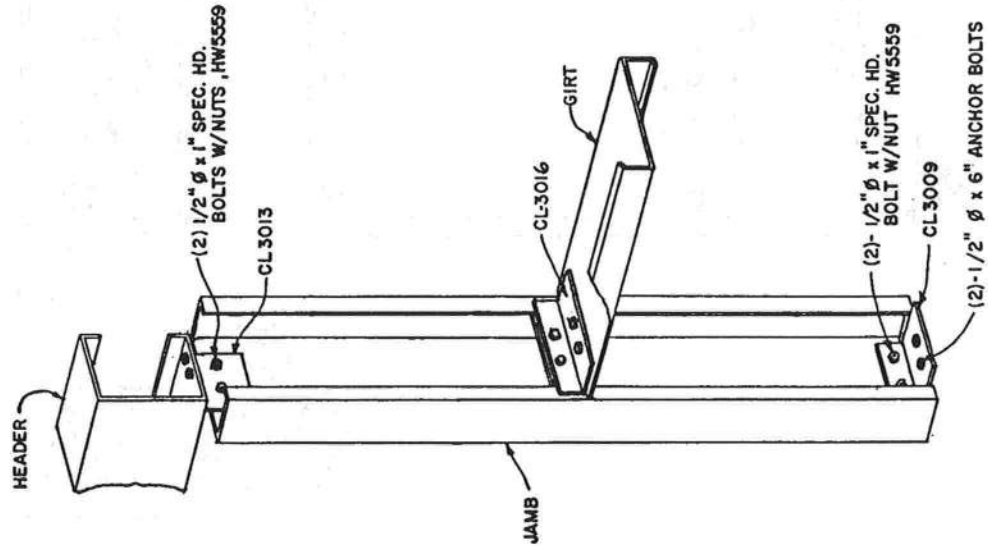
CORNER COLUMN



INSERT GIRT RIGID FRAME

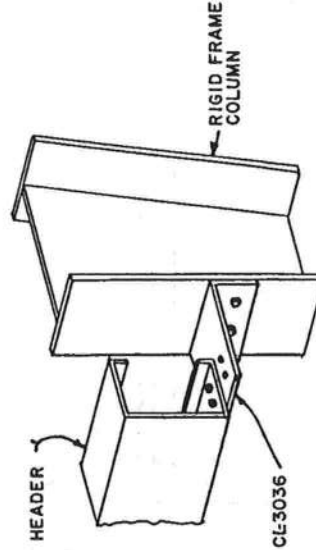


ENDWALL COLUMN

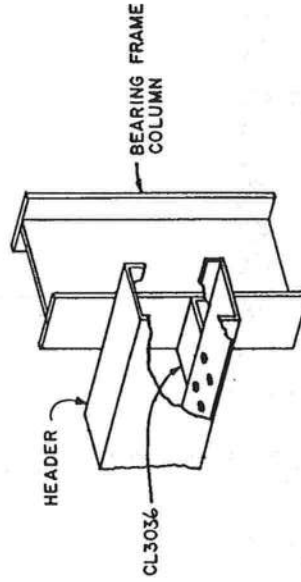


JAMB CONNECTIONS

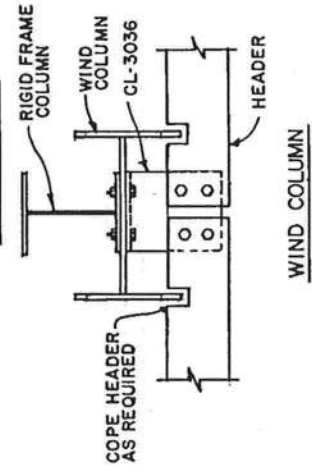
(ALL BOLTS 1/2" ϕ x 1-1/4" UNLESS NOTED)



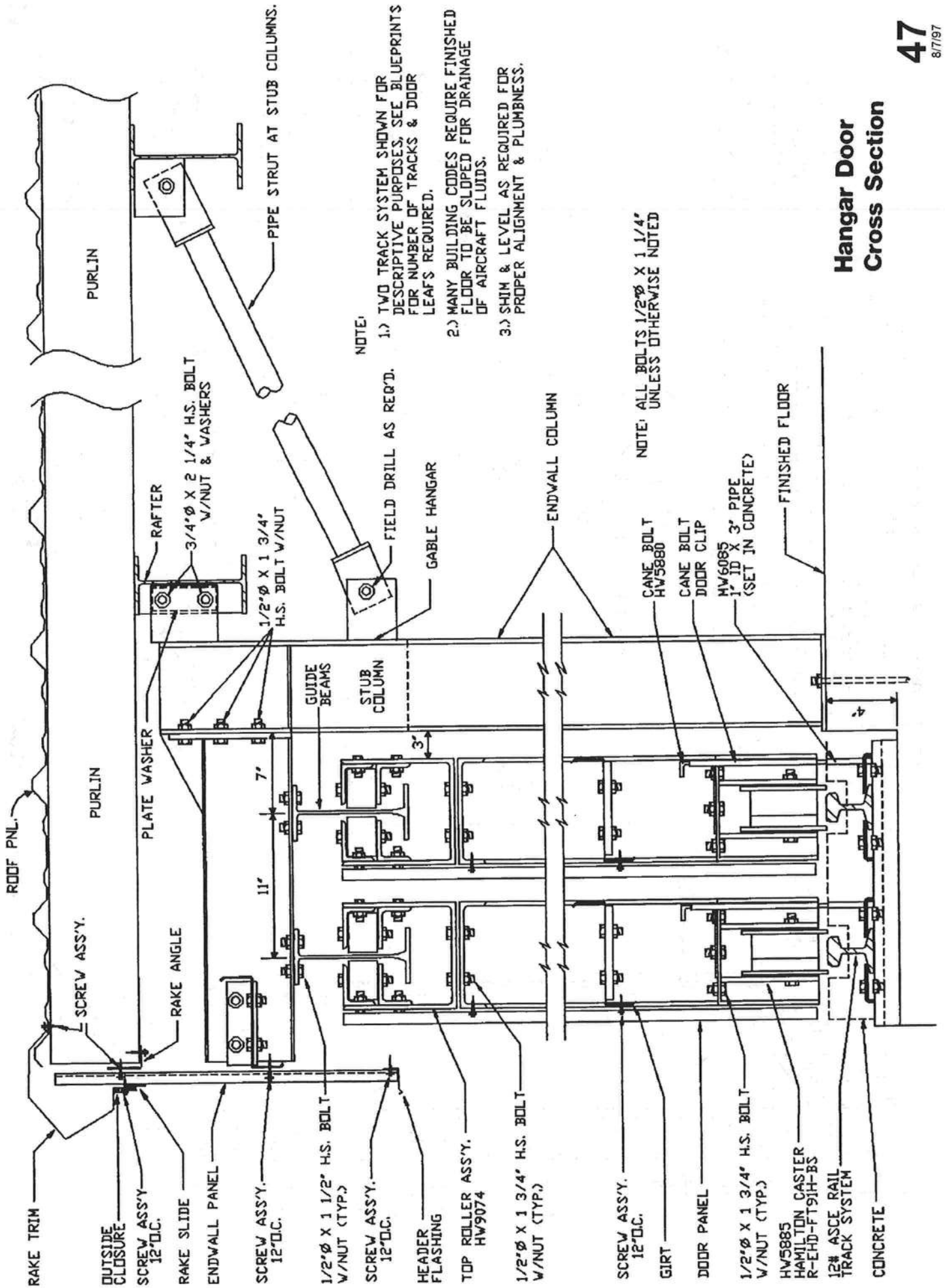
BYPASS GIRT RIGID FRAME



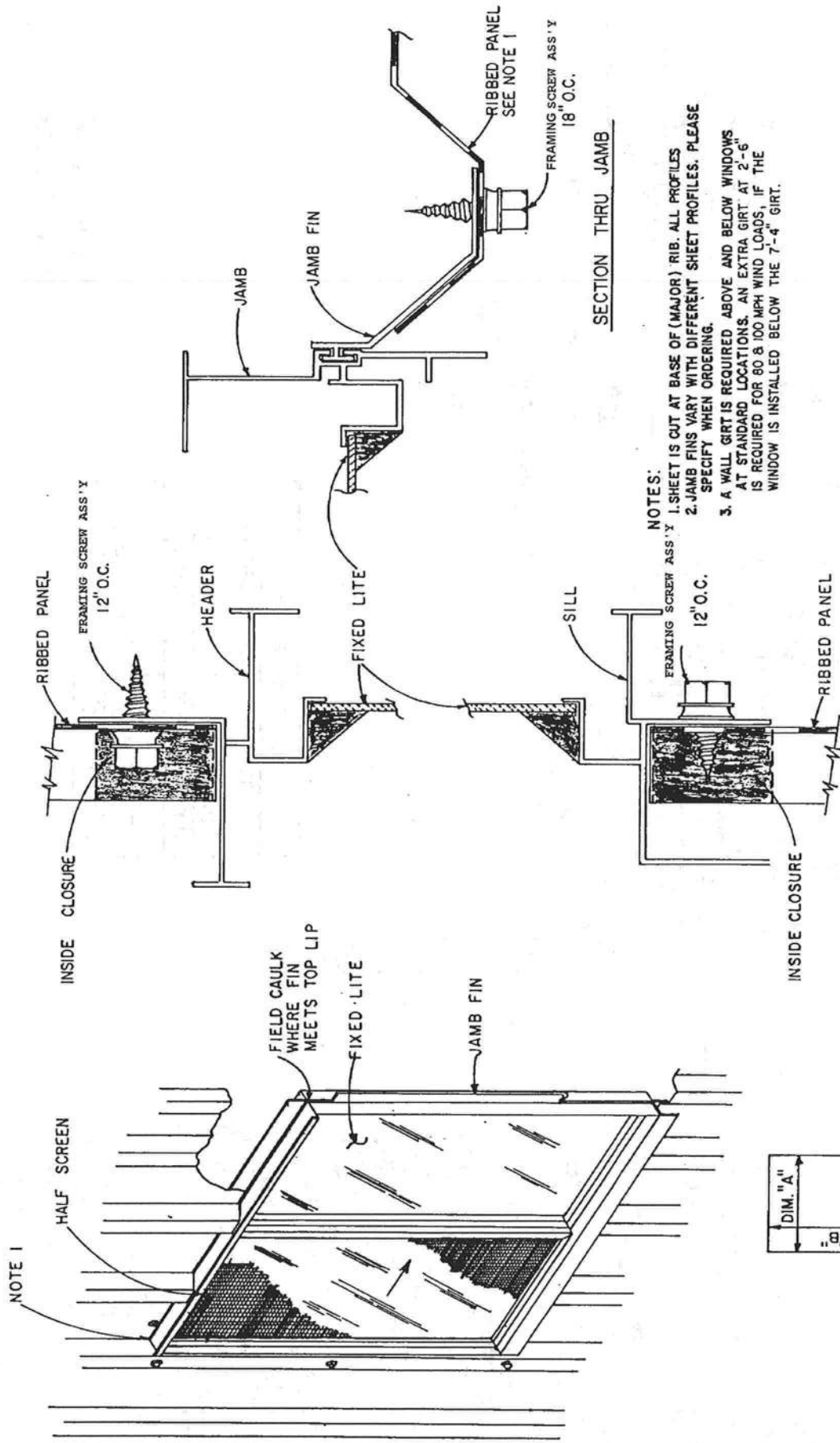
BEARING FRAME



WIND COLUMN



Hangar Door Cross Section



SUGGESTED OPENING DIMENSIONS

WINDOW STYLE	DIM. "A"	DIM. "B"
2020 HORIZ. SLIDE	21 3/4"	24"
3030 HORIZ. SLIDE	33 3/4"	36"
6030 HORIZ. SLIDE	69 3/4"	36"

ALLOWABLE WIND LOAD = 25.0 PSF

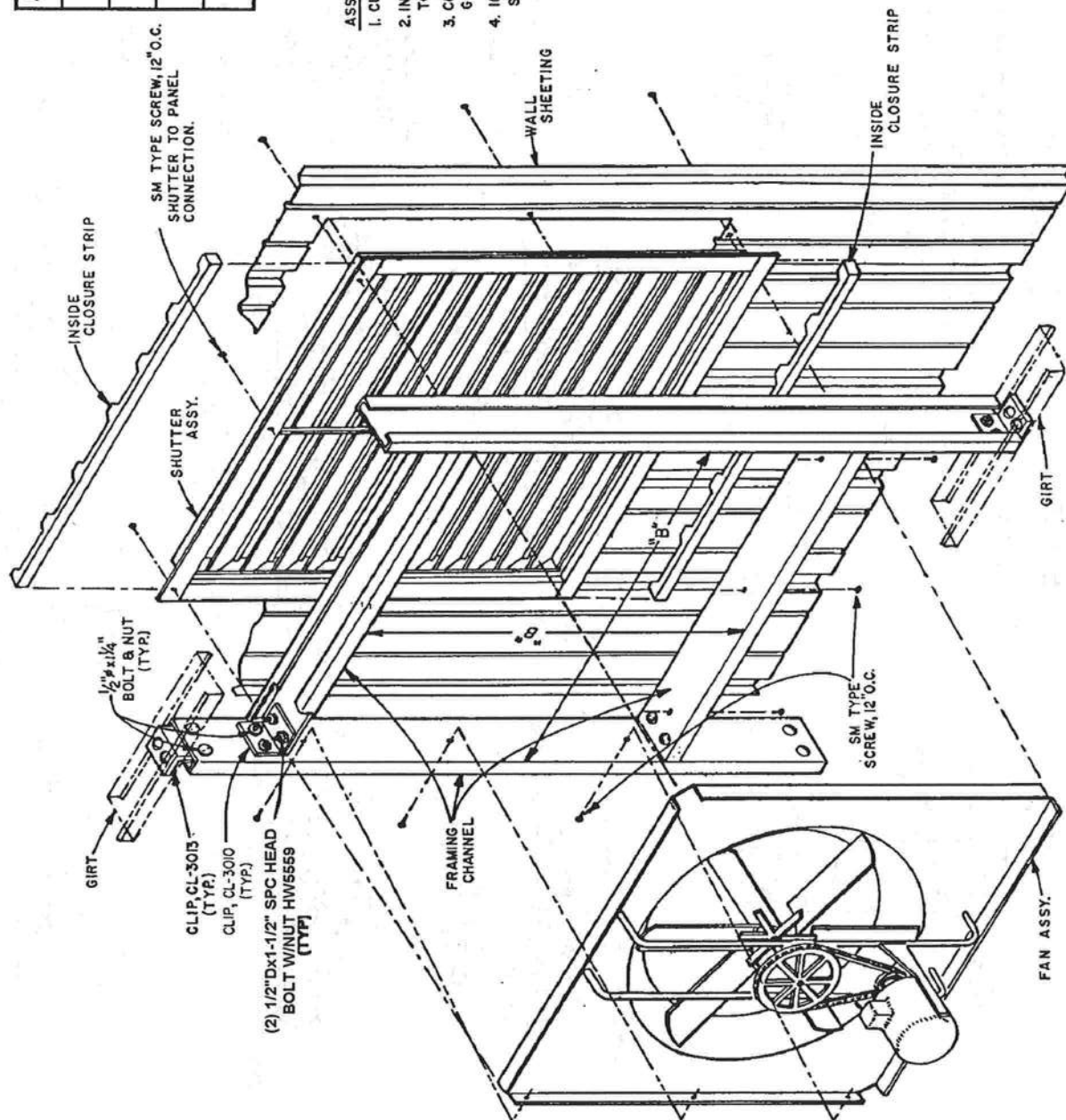
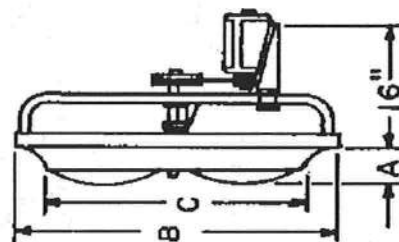
Horizontal Slide Windows

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ASSEMBLY NO.	FAN BLADE SIZE & VOLTAGE	FAN DIMENSION "A" "B" "C"	SHEET OPENING	FAN H.P.	FAN RPM	CFM DELIVERY
FAN241	24" SINGLE PHASE 115/230V, 60Hz	5" 28" 24 3/8"	25"	1/3	710	6000
FAN243	24" 3-PHASE 230/460V, 60Hz	5" 28" 24 3/8"	25"	1/3	710	6000
FAN361	36" SINGLE PHASE 115/230V, 60Hz	8" 40" 38 1/2"	37"	1/2	485	11700
FAN363	36" 3-PHASE 230/460V, 60Hz	8" 40" 38 1/2"	37"	1/2	485	11700

- ASSEMBLY PROCEDURE:**
1. CUT SHEET OPENING AS PER CHART DIMENSION.
 2. INSTALL SHUTTER, USING INSIDE CLOSURE, TOP & BOTTOM AS SHOWN.
 3. CUT, DRILL, & ASSEMBLE FRAME BETWEEN GIRTS USING DIMENSION "B" ON CHART.
 4. INSTALL FAN INTO FRAME USING S.M. SCREWS, 12" O.C. ALL AROUND.

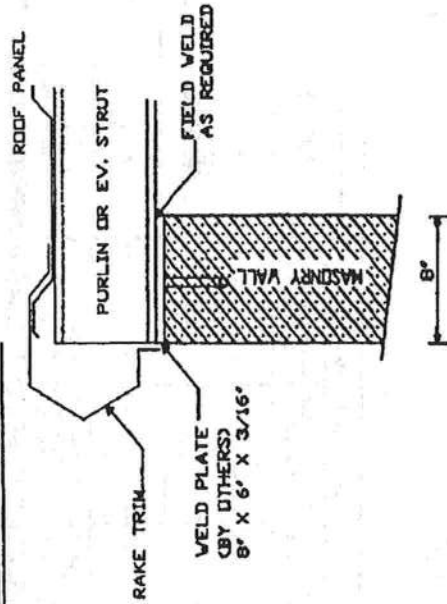


Vertical Mounted Exhaust Fan

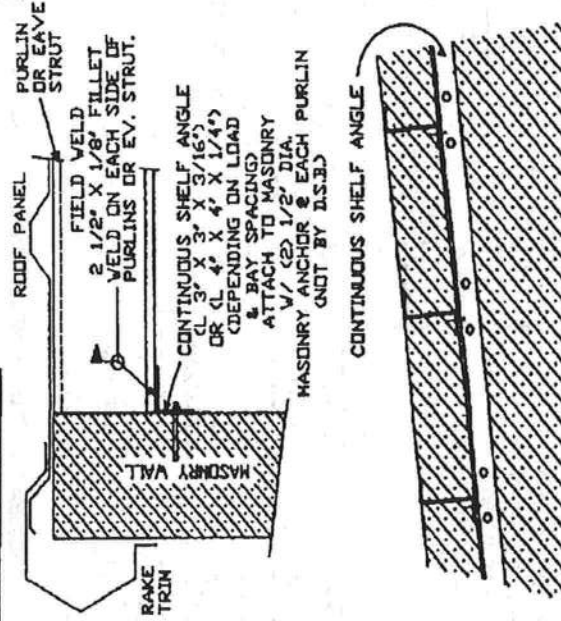
51

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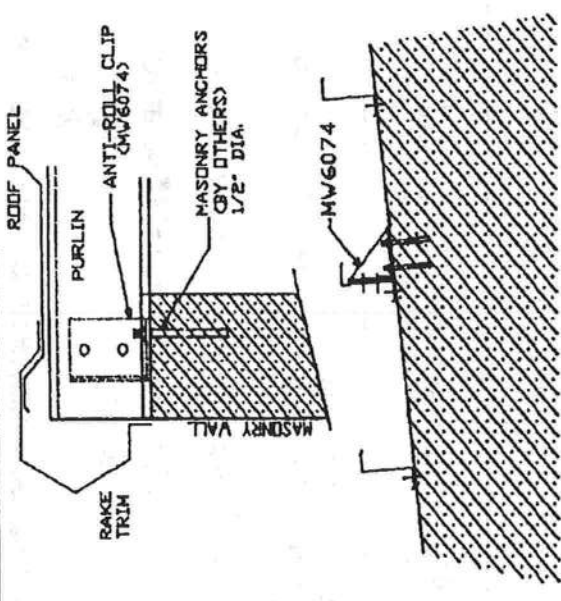
WELD PLATE



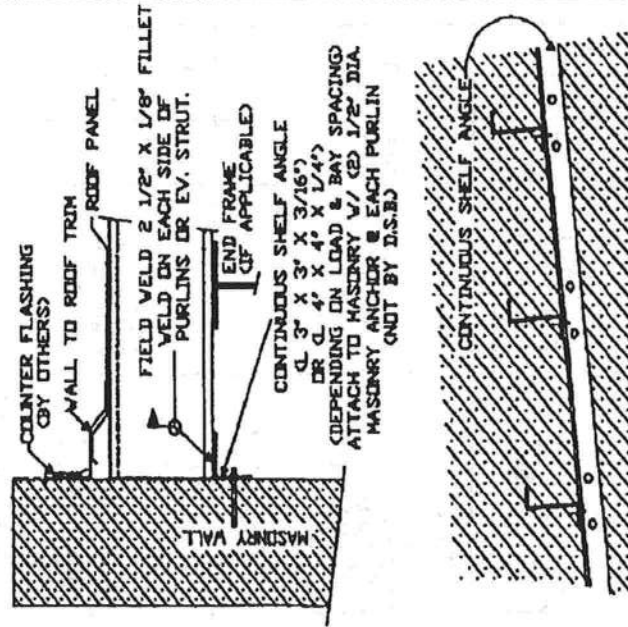
SHELF ANGLE



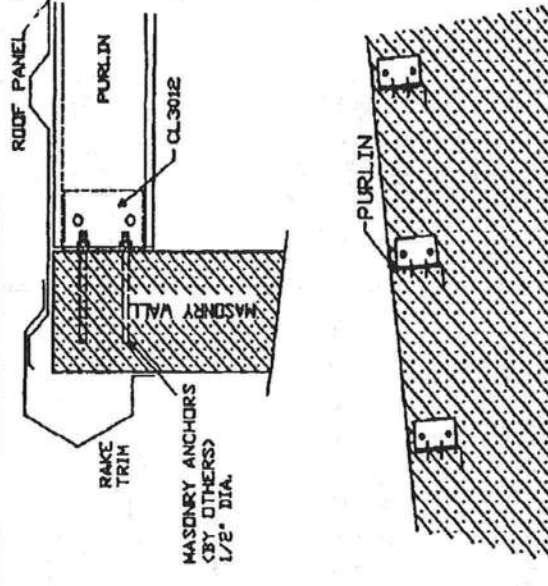
ANTI-ROLL CLIP



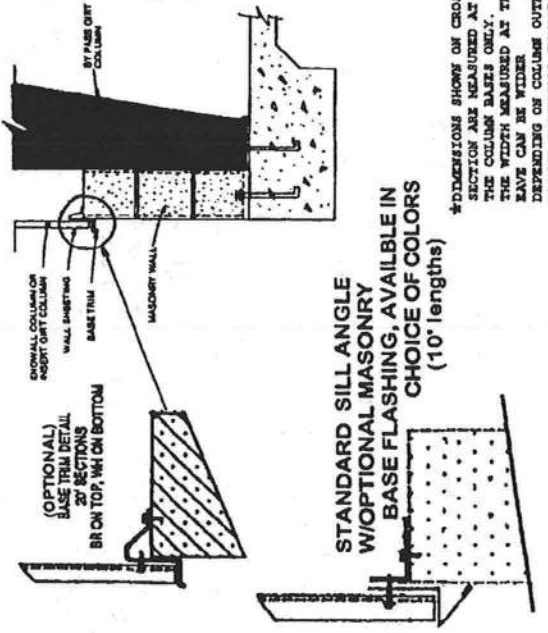
SHELF ANGLE V/ PARAPET WALL



PURLIN HANGER CLIP

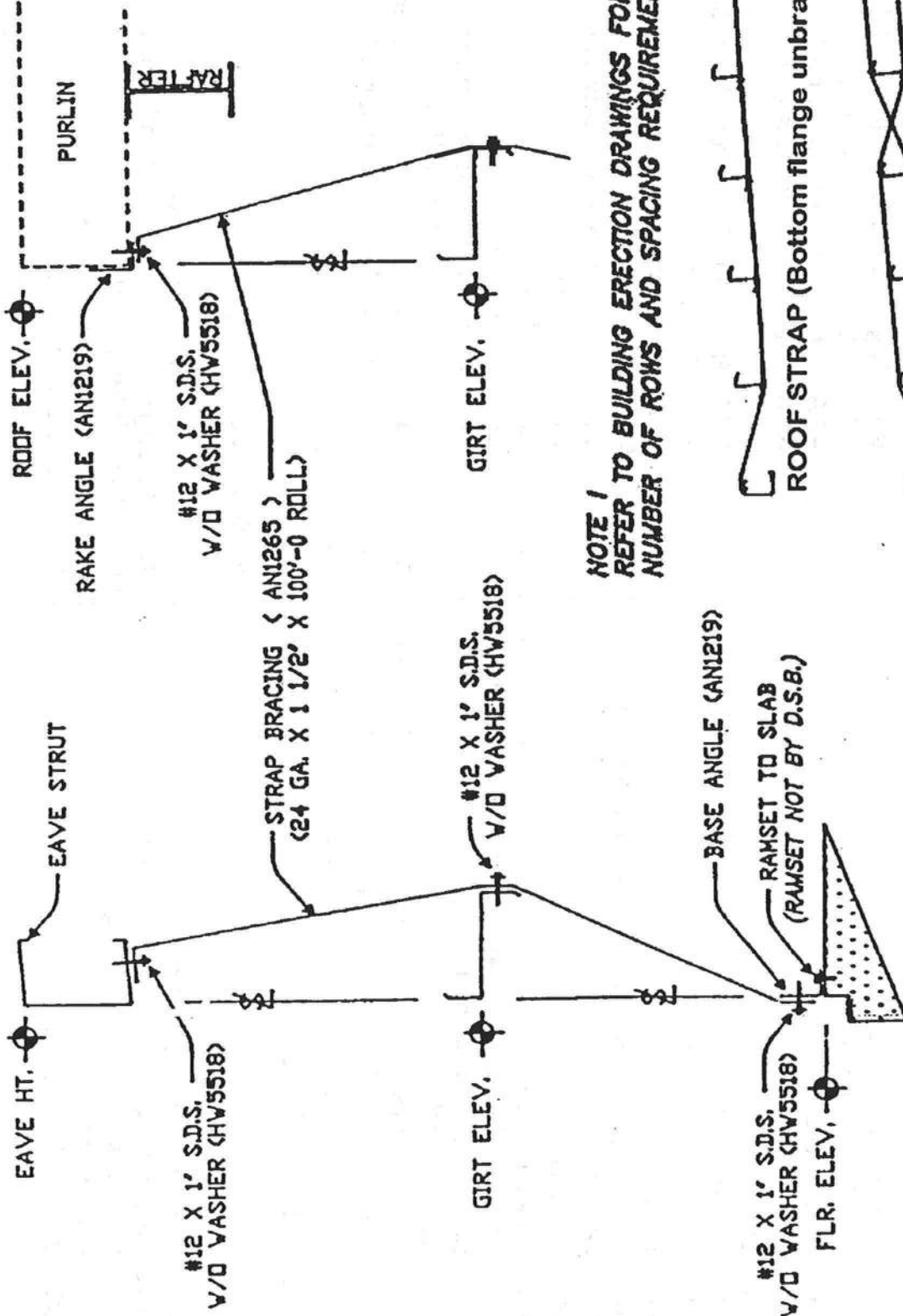


PARTIAL MASONRY WALLS



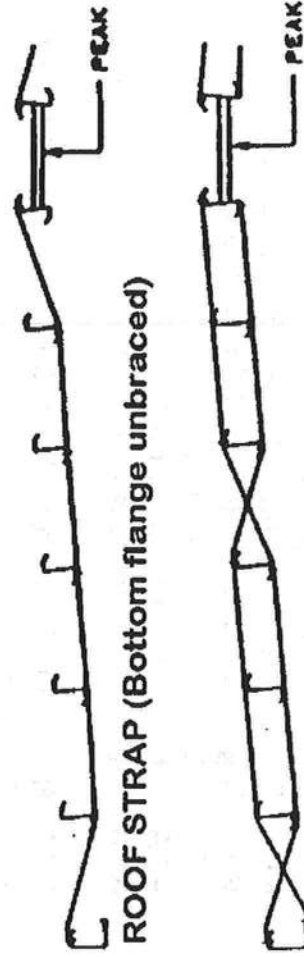
*FOOTPRINTS SHOWN ON CROSS SECTION ARE MEASURED AT THE COLUMN BASES ONLY. THE WIDTH MEASURED AT THE BASE CAN BE WIDER DEPENDING ON COLUMN OUTER FLANGE THICKNESS CHANGES.

STRAP TO EAVE ATTACHMENT



STRAP TO BASE ANGLE ATTACHMENT

NOTE 1
REFER TO BUILDING ERECTION DRAWINGS FOR
NUMBER OF ROWS AND SPACING REQUIREMENTS



ROOF STRAP (Both Top & Bottom flange unbraced)
Typical of Pro Seam Roof

Cross straps every 3rd space and at eave section

Purlin/Girt Bracing Strap

N.P.D. PREFIXES

FAE	Fascia End Closure	FHS	Header Flashing - Rib-6	FSL	Slide Door Leaf Trim
FAO	Fascia Cap - Optional	FHT	Header Flashing - Rib-12	FSK	Skylight Trim - Standard
FAV	Fascia Cap Vertical - Std	FHW	Header Flashing - Arch. Wall	FSS	Soffit - Rib-6
FAX	Fascia Cape Sloped - Universal	FHX	Header Flashing - Special	FST	Soffit - Rib-12
FBC	Fascia Base Vertical Cover	FJC	Jamb Cap - 8" Std	FSU	Soffit - Universal
FBM	Base Flashing - Masonry Wall	FJS	Jamb Flashing - Rib-6	FTP	Termination Flashing - Pro-Seam
FBS	Fascia Base Sloped	FJT	Jamb Flashing - Rib-12	FTS	Transition Flashing - Rib-6
FBV	Fascia Base Vertical	FJW	Jamb Flashing - Arch. Wall	FTT	Transition Flashing - Rib-12
FCE	Canopy Eave	FJX	Jamb Flashing - Special	FWH	Window Header
FCM	Counter Flashing - Masonry	FNN	Finial with Name	FWR	Wall to Roof Flashing
FCS	Cap Flashing - Rib-6	FNO	Finial without Name	FWS	Window Sill Flashing
FCT	Cap Flashing - Rib-12	FNP	Finial for Pro-Seam	FWU	Wing Unit Flashing
FCW	Cap Flashing - Architectural Wall	FPC	Partition Corner Trim	ICP	Inside Corner FL - Special
FEA	Eave Flashing - Std	FPF	Partition Flashing	ICS	Inside Corner FL - Rib-6
FEH	Eave Flashing - High Side	FRA	Rake Flashing - Std	ICT	Inside Corner FL - Rib-12
FEL	Eave Flashing - Low Side	FRC	Ridge Cap Pro-Seam	ICO	Inside Corner - Optional 3"
FEM	Eave Flashing - Masonry	FRE	Roof Extension	ICU	Inside Corner - Universal 6"
FEO	Eave Flashing - Optional	FRF	Roof Extension Soffit	OCF	Outside Corner FL - Special
FEP	Eave Flashing - Pro-Seam	FRM	Rake Flashing - Masonry	OCS	Outside Corner FL- Rib-6
FER	Eave Flashing - Reversed	FRP	Rake Flashing - Pro-Seam	OCT	Outside Corner FL - Rib-12
FEW	Eave Flashing - Arch. Wall	FRR	Roof to Roof Flashing	OCU	Outside Corner FL - Universal 6"
FEX	Eave Flashing - Special	FRS	Rake - Slide Flashing	OCW	Outside Corner FL - Arch Wall
FHE	Hem Flashing	FRX	Rake - Special	VGW	Valley Gutter to Wall - 14 Ga.
		FSB	Slide Door Bypass Flashing	VGR	Valley Gutter to Roof - 14 Ga.
		FSH	Slide Door Hood Flashing		

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1 GENERAL

1.1 SCOPE

This specification concerns the manufacture of and the construction details for metal buildings designed and constructed to be weather tight and easily erected. Dean Steel Buildings, Inc., designs its buildings to and adheres to the policies of MBMA's "Low Rise Building Systems Manual". The building shall include the structural framing, roof and wall covering, trim and closures, and accessories herein described.

1.2 DESCRIPTION

- 1.2.1 SM - Straight Column Rigid Frame Buildings with a roof slope of 1:12.
- 1.2.2 SS - Single Slope Rigid Frame Buildings with a roof slope of 0.5:12.
- 1.2.3 LR - Tapered Column Rigid Frame Buildings with a roof slope of 1:12.
- 1.2.4 LM - Tapered Column Rigid Frame Buildings with interior columns and a roof slope of 1:12.
- 1.2.5 RF - Tapered Column Rigid Frame Buildings with a roof slope of 4:12.
- 1.2.6 WU - Simple Span Frame Extensions from any of the above buildings and a roof slope of 1:12.

1.3 BUILDING NOMENCLATURE

- 1.3.1 The building "Width and Length" shall be measured from inside to inside face of the wall covering.
- 1.3.2 The building "Eave Height" shall be measured from the bottom of the base plate of the rigid frame columns to the intersection of lines representing the inside of the wall covering and the inside of the roof covering.
- 1.3.3 The "Roof Slope" shall be the angle that the roof surface makes with the horizontal, expressed in the units of vertical rise to 12 units of horizontal run.
- 1.3.4 The "Bay Spacing" between frame center lines shall be 20', 25', or 30'. End bays shall be 18'-11", 23'-11", or 28'-11".

1.4 DRAWINGS

The building manufacturer shall furnish complete construction details showing anchor bolt settings; sidewall, endwall, and roof framing; transverse cross-sections; covering and flashing details; and accessory installation details to clearly indicate the proper assembly of all building parts.

1.5 U.L. UPLIFT RATINGS

The building manufacturer shall furnish, when required, a roof deck system having the Underwriters Laboratories wind uplift rating. DSB's roof deck systems are shown in the U.L. publications "Building Materials Directory," and are listed as:

- 1.5.1 Rib 6: Construction No 12 & 39
- 1.5.2 Rib 12: Construction No 65
- 1.5.3 ProSeam: Construction No 205
- 1.5.4 ProLok: Construction No 552, 552A & 552B

2 DESIGN

2.1 GENERAL

All structural steel sections and welded plate members shall be designed in accordance with AISC Specification for Structural Steel Buildings ANSI/AISC 360-10.

All cold-formed structural members and exterior covering shall be designed in accordance with the latest edition of the AISI,

"Specifications for the Design of Cold-Formed Steel Structural Members."

2.2 DESIGN LOADS

- 2.2.1 The following criteria for live loads and wind loads shall be followed in the design of standard building components permitted under the Florida Building Code 2010 and International Building Code 2012.
 - 2.2.1.1 The roof live load shall be applied to the horizontal roof projection according to specification 1607.11.2 (FBC), 1607.12.2 (IBC) and 1616.1 (FBC-HV).
 - 2.2.1.2 Wind loads shall be assumed to act horizontally and shall be applied as pressure and suction in accordance with ASCE 7-10, sections 26 - 31 inclusive. Wind loads are given in terms of 3-second gust and range from 105 mph to 210 mph.
 - 2.2.1.3 Florida counties Broward and Miami-Dade are categorized as high velocity. Buildings designated at high velocity shall comply with the requirements of sections 1611-1626, inclusive in the Florida Building Code.
- 2.2.2 Buildings may be designed to other building codes such as required by local jurisdictions. Please call for availability of codes not listed.
- 2.2.3 The building shall be designed to the load combinations specified in the applicable building code or the MBMA "Low Rise Building Systems Manual", 1996 edition.
- 2.2.4 Designs shall include the building dead load, roof live load, wind, snow and seismic load in accordance with Dean's interpretation of the building code. Additional collateral and auxiliary loads shall be included when specified by the buyer.

3 STRUCTURAL FRAMING

3.1 GENERAL

- 3.1.1 All framing members shall be shop-fabricated for bolted field assembly.
- 3.1.2 Primary structural framing shall include the transverse rigid frame, wing unit rafter beams and columns, canopy beams, intermediate columns, bearing end frames, endwall columns, and wind bracing.
- 3.1.3 Secondary structural framing shall include the purlins, girts, eave struts, jambs, headers, flange bracing, sill support, clips, and other miscellaneous structural parts.
- 3.1.4 All hot rolled steel sheet, plate, and strip for built-up sections shall have a minimum yield point of 55,000 psi. Web sheet is purchased in accordance with ASTM A1011 Grade 55. Flange bar is purchased in accordance with A529 Grade 55.
- 3.1.5 Hot rolled structural sections shall conform to the requirements of ASTM Specification A36 yield 50, A572 G55 or ASTM A992 G55.
- 3.1.6 Twelve, fourteen, fifteen, and sixteen gauge cold formed sections shall have a minimum yield point of 55,000 psi in accordance with ASTM A1011 G55. Galvanized sheet and strip for structural framing members shall conform to ASTM Specifications A653, Grade 90.
- 3.1.7 Pipe for columns and other structural uses shall have 42,000 psi yield. Square tubes conform to ASTM A500 Grade B.
- 3.1.8 Galvalume and pre-painted hot roll coils conform to ASTM A792 AZ55 and may be either 50,000 psi or 80,000 psi yield. See Section 4.
- 3.1.9 Unless otherwise specified, the minimum thickness of framing members shall be as follows:

Cold formed primary framing members	14 gauge
Cold formed secondary framing members	16 gauge
Intermediate pipe columns	3/16"
Webs of welded built-up members	12 gauge

4.5 FASTENERS

4.5.1 All self-tapping fasteners shall conform to USASB 18.6.4 and shall have type A or type AB threads. All self-drilling fasteners shall conform to IF 1113. Where required for weather tightness, fasteners shall be assembled with neoprene sealing washers.

4.5.2 Plating

4.5.2.1 All fasteners shall be plated to minimum thickness of .0005".

4.5.2.2 Optional extended corrosion resistant fasteners shall be Zac® (zinc-aluminum cast head) with aluminum and neoprene sealing washers.

4.6 SEALER

Sealer for side laps, end laps, and flashing shall be a butyl based polymer sealant in extruded tape form. The sealer shall be non-shrinking, non-drying, and non-toxic and shall have superior adhesion to metals, plastics, and painted surfaces. Service temperatures range from -30° to + 300°F. The material shall not flow at 120°F, and shall meet or exceed the requirements of Gov. Spec. No. MIL-C 18969 Type II, Class B and TT-C-1796A.

4.7 INSTALLATION OF ROOF AND WALL PANELS

4.7.1 Roof panels shall be continuous from ridge to eave for buildings 60' wide or less. Where end laps are required they shall be a minimum of 6" long and shall occur at a roof purlin.

4.7.2 Sidewall and endwall panels shall be continuous from sill to roof line except where length becomes prohibitive for handling purposes. Endwall panels for buildings with 4:12 roof slope may have a splice at the eave line.

4.7.3 Endwall panels shall be square cut for buildings with a 1:12 roof slope and bevel cut for buildings with a $\geq 2:12$ roof slope when the panel is longer than 5'-0".

4.7.4 Before securing, all laps of roof panels shall be sealed with a continuous ribbon of tape sealer.

4.7.5 Standard Roof Panels

The information below is general; please refer to your construction drawings for specific screw spacing information.

4.7.5.1 Roof panels shall be secured to purlins with #14 sheet metal screws at a maximum spacing of 12".

4.7.5.2 At end laps of rib sheets the maximum spacing shall be on each side of the major rib for Rib-12 panels and 6" on center for Rib-6.

4.7.5.3 Side laps to roof panels shall be stitched through the high flat of the rib with #14 sheet metal screws at a maximum spacing of 20" or 12" on center for wind loads 120 mph (fastest mile) or greater and 140 mph (peak gust) or greater.

4.7.6 Standing Seam Roof Panels

The information below is general; please refer to the construction booklet provided.

4.7.6.1 Pro Seam and Pro-Lok panels shall be secured by a fixed or floating clip with a 1/4-14 x 1-1/4" self drilling fastener at 24" on center and fastened to each purlin. Peak and panel laps shall be secured with compression joints consisting of rigid metal plates on the top and bottom of the panels.

4.7.7 Standard Wall Panels

The information below is general; please refer to your construction drawings for specific screw spacing information.

4.7.7.1 Wall panels shall be secured to girts with #14 sheet metal screws at a maximum spacing of 12".

4.7.7.2 At the end laps of rib sheets the maximum spacing shall be on each side of the major rib for Rib-12 panels and 6" on center for Rib-6.

4.7.7.3 At the side laps of sheets, #10 sheet metal screws shall be placed a maximum of 30" or 12" on center for wind loads 120 mph (fastest mile) or greater and 140 mph (peak gust) or greater.

4.8 FLASHING, CLOSURES, AND TRIM

4.8.1 Flashing and/or trim shall be furnished at the rake, corners, eaves, framed openings, and wherever necessary to provide weather tightness and a finished appearance.

4.8.2 Sculptured rake trim shall be roll formed 26, or optional 24, gauge material 20' long to minimize joints. Other trim shall be 26 gauge.

4.8.3 Sculptured rake trim material shall be Aluminum Zinc Alloy-Coated steel (50,000 psi yield) or optional color coated galvanized steel conforming to ASTM Specification A-653 Grade D (50,000 psi yield).

4.8.4 A formed panel matching the slope and profile of adjoining panels shall be provided along the building ridge for Rib-12 panels. A preformed metal outside closure and ridge flashing shall be used with standing seam panels.

4.8.5 Closure strips matching the profile of the panel shall be installed along the rake and/or eave where required for weather tightness. Closure strips shall be closed cell, semi-rigid, crosslinked polyethylene foam laminated for strength and uniform compressibility. Metal inside closure strips shall be used at the eave for standing seam panels.

4.9 COLOR FINISH

See DSB color charts for latest color selections and availability of finishes.

4.9.1 Exterior steel surfaces shall be Aluminum Zinc Alloy-Coated or optional color coated Aluminum Zinc Alloy-Coated or galvanized (G90) steel.

4.9.1.1 Color of roof panels, wall panels, and corner trim shall be selected from Dean's standard colors.

4.9.1.2 The roof ventilators shall be Aluminum Zinc Alloy-Coated or Oyster white.

4.9.1.3 Gutter, rake trim, downspouts, eave trim, and door flashing shall be Aluminum Zinc Alloy-Coated or prepainted galvanized in 26 ga. in standard colors shown on Dean's color card. Optional 24 ga. available in Aluminum Zinc coated or prepainted galvanized White or Bronze.

4.9.2 The color surface shall be a silicon-polyester co-polymer resin type to give superior adhesion and durability. The coating shall be a D.F.T. of 1.0 mil thick (+ .1 mil). The reverse or backer coat shall be a straight polyester with a D.F.T. of 0.5 mil thickness.

4.9.3 The Dean color coated panels are available with optional 5-, 10-, and 20-year written limited guarantees. For additional information on the primer, finish coat, or guarantee please contact your Dean representative.

5 ACCESSORIES

5.1 HOLLOW METAL SWING DOORS

5.1.1 3070 door leafs shall be 1-3/4" thick, full flush, 20 gauge hot dipped galvanized (G60). The leafs shall have an expanded polystyrene core, a closed cell, rigid thermoplastic material used for insulation against heat or cold. "U" factor of .16 and "R" factor of 6.5, sound transmission of .32. Meets or exceeds Federal Specification HH-1-524-C Types I, II, III.

5.1.2 Door frames shall be non-handed universal type frame, 16 gauge galvanized steel with reinforced recessed hinge plates.

5.1.3 Doors shall be furnished with a satin stainless steel lockset, 2-3/4" backset, and A.S.A. strike plate.

5.1.4 Optional panic hardware shall be a horizontal push bar of wrought steel channels and available either exit only or entrance/exit. Slight pressure on the push bar shall release

the door latch for immediate exit. A removable mullion shall be required for double door openings.

- 5.1.5 Each door leaf shall swing from (3) 4-1/4" x 4-1/2" steel full mortise, plain bearing hinges.
- 5.1.6 Door leafs and frames are manufactured with one coat of tinted white primer (Ceco).
- 5.1.7 The threshold shall be an extruded aluminum shape to provide positive weather seal.
- 5.1.8 Optional 3070 Glasslite doors shall have 6" x 30" factory pre-glazed tempered glass panel. Glasslite doors are not adequate for buildings permitted by the FBC and are not impact resistant.
- 5.1.9 4070 and 6070 door packages are available upon request; specifications and supplier may vary from above.

5.2 SLIDING DOORS

- 5.2.1 Sliding door leafs shall be constructed of bolted steel framing covered with matching wall panels.
- 5.2.2 The leafs shall be suspended from a galvanized steel track by dual-wheeled, galvanized steel, permanently lubricated trolley hangers. The track brackets and trolleys shall be protected by a counter-flashed hood.
- 5.2.3 Sliding door jambs and headers (when required) shall be cold formed channel sections having one standard shop coat of primer.

5.3 SKYLIGHTS

- 5.3.1 Skylight panels shall be general purpose glassfiber reinforced polyester structural plastic panels.
- 5.3.2 Skylights shall be white smooth surface finished, in a profile matching the roof panels and shall weigh 8 ounces per square foot. Skylights conform to PS 53-72, Type I (burn rate of not less than 2.0 inches per minute). Note: Voluntary Product Standard PS 53-72, issued by the U.S. Department of Commerce January 1, 1972, has been replaced as the Standard Specification by ASTM D 3841-81.
- 5.3.3 Additional fall protection must be provided in accordance with OSHA regulations.

5.4 EAVE GUTTERS AND DOWNSPOUTS

- 5.4.1 Sculptured eave gutter 4-1/2" x 5" shall be roll formed 26 gauge, or optional 24 gauge, 20' long for ease of erection. Gutter shall be fastened with gutter brackets at 3' spacing after roof and wall sheets are in place. Contour of the gutter shall match the rake flashing and allow for easy field miter of the corner without an auxiliary corner box.
- 5.4.2 Downspouts shall be 26 gauge steel, 4" x 5". Downspouts shall have a 45° elbow at the bottom and shall be supported by attachment to the wall covering at 6' maximum spacing.

5.5 WINDOWS

- 5.5.1 Horizontal slide aluminum windows shall be self-flashing, furnished with a sash lock, weather-stripping, and a half screen. The exposed surfaces shall be finished in Bronze enamel paint. The windows shall be factory glazed with double strength (DSB) glass.
- 5.5.2 Accent windows shall be self-flashing fixed glass. The exposed surfaces shall be finished in Bronze enamel paint. The windows shall be factory glazed with tinted tempered glass.
- 5.5.3 Windows supplied by DSB may not be adequate for all wind loads and are not impact resistant.

5.6 VENTILATORS

Ridge ventilators shall be gravity type, fabricated from Aluminum Zinc Alloy-Coated steel or galvanized steel painted Oyster White.

5.6.1 Monovents shall have a 9" or 12" throat and are furnished in 10' lengths. Splice plates and end caps, where required, shall be provided to make up the specified length. All monovents shall be furnished with bird screen. Optional damper shall provide an adjustable opening at the throat and shall be of the manually-operated pull chain type.

5.6.2 Lo-profile vents are designed for ProSeam, Pro-Lok and Rib-12 roof systems and offer pleasing, efficient ventilation. Vents come in 10' lengths, single or continuous, 6-1/2" throat @ 1:12 pitch, 450 CFM Base Rating.

5.7 LOUVERS

Louvers shall be fabricated from 26 gauge galvanized steel and shall have overlapping blades for maximum weather tightness. Blade shall be fixed with integral bird screen. Color shall be oyster white unless otherwise specified.

6 BUILDING ANCHORAGE AND FOUNDATION

6.1 ANCHOR BOLTS

Anchor bolts shall resist 100% of the critical column reactions (shear and/or tension) determined from the load combinations. The manufacturer is responsible for design of anchor bolt diameter and projection above the concrete foundation, but is not responsible for the transfer of anchor bolt forces to the concrete nor the adequacy of the anchor bolts in relation to the concrete; this is the responsibility of the buyer. Anchor bolts supplied by DSB (optional) will be 36 KSI yield.

6.2 FOUNDATION

The building foundation shall be designed by a qualified engineer to support the building reactions in addition to other loads imposed by the building use or occupancy. The design shall be based on actual jobsite conditions. Foundation design shall include provisions for bolt embedment, length, hook, bearing angles, kickout bars, tie rods, and any other associated items embedded in the concrete. Dean Steel Buildings, Inc., does not design nor assume responsibility for the design, materials, or workmanship of the foundation.

Specifications cover buildings manufactured by Dean Steel Buildings, Inc. In keeping with Dean Steel Buildings, Inc., policy of continuous product improvement, specifications are subject to change without notice.

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IAS AC-472
Accredited

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Mfg. Plant
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Thomasville, Georgia 31757
(229) 225-1112 • FAX: (229) 225-1175

4022-02/12

Flanges of welded built-up members.....	3/16"
Bracing (Cable standard).....	1/4" Ø
Bracing (Rod optional).....	1/2" Ø

- 3.1.10 Cold-formed sections shall be manufactured by precision roll or brake forming. All dimensions shall be true.
- 3.1.11 All shop connections shall be by welding in accordance with the AWS "Structural Welding Code" latest edition. Welding shall be by submerged arc or gas shielded arc process.
- 3.1.12 All field connections shall be field bolted with ASTM Specification A-307 or A-325 bolts as shown on drawings. A-325 bolts shall be tightened by the turn of the nut method. Connections in secondary members shall be made with special 1/2" Truss Head Fin Neck bolts and hex nuts when required. ASTM A-325 bolts are designed in accordance with RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) 2009 edition.
- 3.1.13 All framing members shall carry an easily visible identifying mark.

3.2 RIGID FRAMES, WING UNIT FRAMES, AND CANOPY BEAMS

All members shall be welded, built-up, "I" shapes, either constant depth or tapered.

3.3 BEARING END FRAMES

Bearing end frames shall be hot rolled sections and consist of columns at the building corners and a continuous rafter beam supported by the endwall columns. An optional bearing frame system will consist of cold formed "C" sections and "Z" sections.

3.4 ENDWALL COLUMNS

- 3.4.1 Endwall columns shall be hot rolled sections or welded built-up "I" shapes. Optional endwall columns will consist of cold formed "C" sections.
- 3.4.2 Endwall assemblies shall consist of hot rolled columns and bypass girts. Optional hot rolled columns or cold formed columns with insert girts are available upon request.

3.5 PURLINS AND GIRTS

Purlins and girts shall be cold formed "Z" sections with stiffened flanges. They shall be simple or continuous span as required by design.

3.6 EAVE STRUTS

Eave struts shall be 8" deep cold formed sections sufficient to provide adequate backup for both roof and wall panels at the building eaves.

3.7 WIND BRACING

- 3.7.1 Wind bracing in the roof and/or sidewall is not required where the diaphragm strength of the roof and/or wall covering is adequate to resist the longitudinal wind forces. If required, wind bracing shall be provided by diagonal cables.
- 3.7.2 OPTIONAL BRACING shall consist of wind bents (portal frames), fixed base wind columns, diagonal rod bracing, or diagonal angle bracing.
- 3.7.3 Buildings over 200' wide may require cable bracing at interior column lines.

3.8 FLANGE BRACING

The inside flange of all rafters and columns shall be braced laterally by angles connected to the flange of the frame and to the web of the purlin or girt so that the allowable compressive stress is adequate for any combination of loading.

3.9 BASE SUPPORT

A continuous member shall be provided to which the base of the wall covering may be attached. This member shall be galvanized or pre-painted red angle used in conjunction with a 1-1/2" sheet ledge formed in the concrete or optional 18 gauge galvanized painted Bronze base trim secured to the concrete floor with power driven fasteners or equivalent anchors.

3.10 FRAMED OPENINGS

Structural framing members for all openings shall be cold formed "C" sections and adequate for the specified design wind loads. As roll-up overhead doors transfer a large torsion load to the jamb, structural tube sections may be used.

3.11 EXPANSION JOINTS

- 3.11.1 Longitudinal expansion joints may be required when the building length exceeds 500'. These joints shall allow adequate expansion and contraction of the longitudinal members and roof and wall panels.
- 3.11.2 Transverse expansion joints may be required when the building width (span) exceeds 200' on gabled buildings or 100' single slope (these dimensions can be doubled when using Pro Seam panels with floating clips). These joints shall allow adequate expansion and contraction of the roof panels and shall be flashed to ensure weather tightness.

3.12 PAINTING

All structural framing members which are not galvanized shall be cleaned to remove dirt, grease, oil, and loose mill scale, and given one shop coat of iron oxide primer formulated to meet or exceed the performance requirements of Federal Specifications TT-P-636 and TT-P-664. Primer is for protection of steel building during transit and is not intended as an exterior finish.

4 ROOF & WALLS

4.1 STANDARD PANEL PROFILES

- 4.1.1 Rib-12 (RT) - 1-1/4" deep ribs 12" on center with two 1/4" deep intermediate stiffeners; 36" net coverage.
- 4.1.2 Shadow Panel (SP) - 1-1/4" deep recesses 12" on center with intermediate accent lines; 36" net coverage wall panel.
- 4.1.3 Rib-6 (RS) 3/4" deep ribs 6" on center; 36" net coverage.

4.2 STANDARD PANEL PROPERTIES (36")

- 4.2.1 Standard roof, wall, liner, and partition panels shall be 26 gauge unpainted Aluminum Zinc Alloy-Coated or 26 gauge color coated cold formed panels.
- 4.2.2 Material for 26 gauge color coated panels shall be Aluminum Zinc Alloy-Coated steel conforming to ASTM Specification A-792, Grade E, 80,000 psi, or galvanized (G-90) steel conforming to ASTM Specification A-653, Grade E, 80,000 psi.
- 4.2.3 Material for optional 24 gauge panels shall be unpainted or color coated Aluminum Zinc Alloy-Coated conforming to ASTM A-792, Grade E, 80,000 psi, or 24 gauge color coated cold formed panels on galvanized steel conforming to ASTM A-653 in Grade E, 80,000 psi.

4.3 STANDING SEAM PANEL PROFILE

- 4.3.1 Pro Seam - 3" self-locking trapezoidal rib roof panel, concealed fixed or floating clips, 24" net coverage.
- 4.3.2 Pro-Lok - 3" seamed trapezoidal rib roof panel, concealed fixed or floating clips, 24" net coverage.

4.4 STANDING SEAM PANEL PROPERTIES

Pro Seam and Pro-Lok panels shall be 24 gauge Aluminum Zinc Alloy-Coated steel ASTM A-792, Grade D, 50,000 psi.

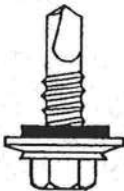
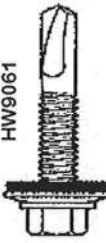
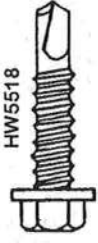
GLOSSARY OF STANDARD PART NUMBERS

AF Architectural flat panel (discontinued)
AN Angle - Flat plate or coil stock cold formed in-house
ANF Flange brace
AR Architectural roof panel (discontinued)
AW Architectural wall panel (discontinued)
BC Bearing frame column
BR Bearing frame rafter
CH 8" Channel
CL Clip
CTA 10" channel
DS Downspout
EC Endwall column
ES Eave strut
FL Flashing (see next page for N.P.D. Prefixes)
GU Gutter
HW Hardware
MH Misc. hot rolled - part whose major component(s) is hot rolled section (beam, channel, or angle) and does not fall into one of the specific hot rolled categories (BC, BR, EC).
MW Misc. welded - part that is built up by welding flat plate(s) together and does not fall into one of the specific built up categories (RC, RR, WB, WC); i.e., weld plates

PC Pipe column
PSB ProSeam roof panel - 18"
PSC ProSeam roof panel - 24"
PK ProLok roof panel - 24"
RC Rigid frame column (or wind bent column)
RR Rigid frame rafter (or wind bent rafter)
RSA Rib-6 panel (square cut)
RTA Rib-12 panel (square cut)
RTB Left hand mitered sheet (long side is on the right)
RTC Right hand mitered sheet (long side is on the left)
SK Skylight
SPA Shadow panel (reverse Rib-12 panel)
VG Valley gutter
VT Vent - monovent, louver, circular vent, or turbine vent
WC Wind column
XB Rod bracing
XC Cable bracing
ZEA 8" zee with standard punch pattern:
 A = 2'2" lap or 1'1" lap; H = 1'1" lap only
ZTA 10" zee with standard punch pattern:
 A = 2'2" lap or 1'1" lap; H = 1'1" lap only

Building Codes

SBC Standard Building Code Congress	IBC International Building Code
ASCE American Society of Civil Engineers	BOCA Building Officials and Code Administrators
NC North Carolina State Building Code	OH Ohio State Building
PR Puerto Rico	BAH Bahamas Building Code
UBC Uniform Building Code	FBC Florida Building Code

FASTENER	DESCRIPTION	PRE DRILL SIZE	SOCKET SIZE	APPLICATION	FASTENER	DESCRIPTION	PRE DRILL SIZE	SOCKET SIZE	APPLICATION
HW5511 (5/8") 	#10 x 5/8" Lg Type 'A' SMS Plated Steel or w/ Painted Color Head	1/8" DIA	5/16" A.F.	For Laps and Stitching on: Wallpanel to Wallpanel Flashing to Wallpanel	HW5780 (1/4") 	#4 Alum Blind Rivet	3/16" DIA	N/A	For Gutter Laps and Rake Trim and Downspout Joints
HW5501 (7/8") 	#14 Standard Type 'A' SMS w/ Painted Color Head	3/16" DIA	3/8" A.F.	Self Tapping Panel to Panel Panel to Secondary Steel	HW5502 (3/4") 	#14 ZAC® Zinc/Alum Head 25 Year Warranty (by manufacturer)	3/16" DIA	3/8" A.F.	Long Life Fasteners Self Tapping Panel to Panel Panel to Secondary Steel
HW5505 (1") HW5509 (1-1/2") 	#12 x 1" Lg SMS Plated Steel or Color Head	N/A	5/16" A.F.	Self Drilling Screw for use in lieu of #14 x 3/4" Panel to Secondary Steel	HW5513 (1") 	#12 x 1" Lg ZAC® Zinc/Alum Head 25 Year Warranty (by manufacturer)	N/A	3/8" A.F.	Long Life Fastener Self Drilling Screw For use in lieu of #14 x 3/4" Panel to Secondary Steel
HW5512 (1") HW5515 (1-1/4") 	#17 x 3/4" Lg Type 'AB' SMS Plated Steel Head	7/32" DIA	3/8" A.F.	For Sheets with oversized pre-drilled holes or when a #14 has stripped out	HW9061 	#12 x 1 1/4" Lg TEK #4 Self Drilling	N/A	5/16" A.F.	Panel or Trim to Structural Frame, Channel or Column Clips or Panel to Joist
HW5521 (3/4") 					HW5518 	#12 x 1" Lg Self Drilling (No Washer)	N/A	5/16" A.F.	Strapping Screw, Skylight Trim and other Interior applications

FASTENER SELECTION GUIDE				
INSULATION THICKNESS	SELF TAPPING SCREWS	SELF DRILLING SCREWS		
2"	3/4"	1"		
3"	1"	1 1/4"		
4"	1 1/4"	1 1/2"		
5"	1 1/2"	2"		
6"	1 1/2"	2"		

Assumes .6 to .75 Density Fiberglass Blanket on Roof Applications. Could vary with other Density Insulations. (Construction Fasteners 1987)

RECOMMENDED DRIVING TOOLS: SELF DRILLING:

1900-2500 RPM driver equipped with depth locating nose piece to prevent overdriving & stripout (do not use impacting type drivers)

SELF TAPPING:

600-800 RPM driver equipped with depth locating nose piece to prevent overdriving & stripout (do not use impacting type drivers)

CORRECT	TOO LOOSE	TOO TIGHT
		

SEALING MATL.
SLIGHTLY
VISIBLE AT
EDGE OF METAL
WASHER.
ASSEMBLY IS
WEATHERTIGHT.

SEALING MATL.
NOT VISIBLE.
NOT ENOUGH
COMPRESSION
TO SEAL
PROPERLY.

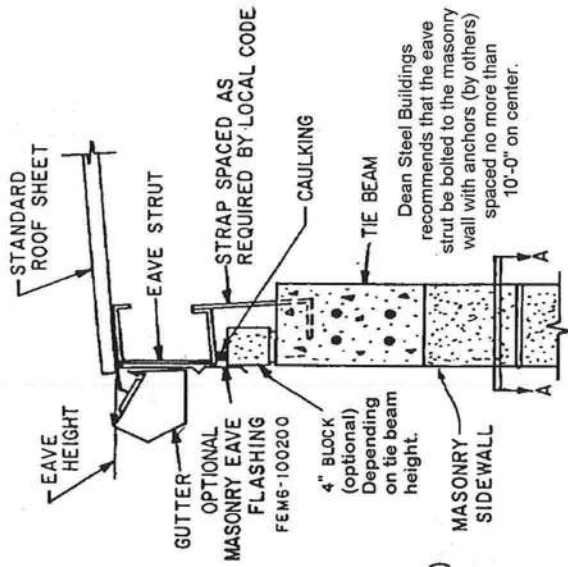
METAL WASHER
DEFORMED.
SEALING METL.
EXTRUDED
BEYOND EDGE
OF WASHER.

Screw Identification Table

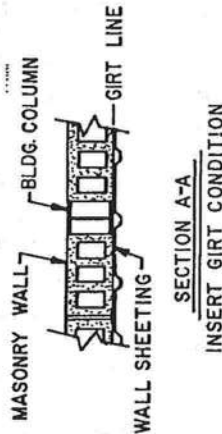
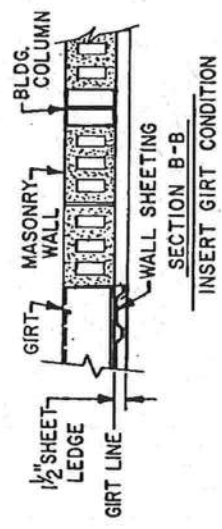
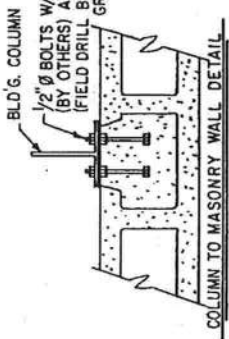
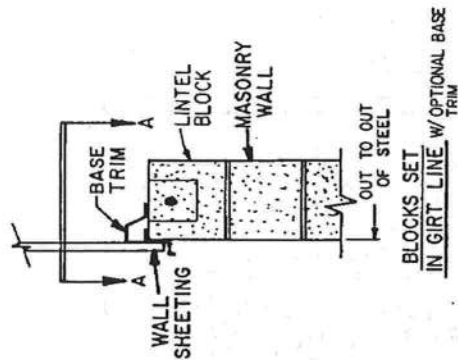
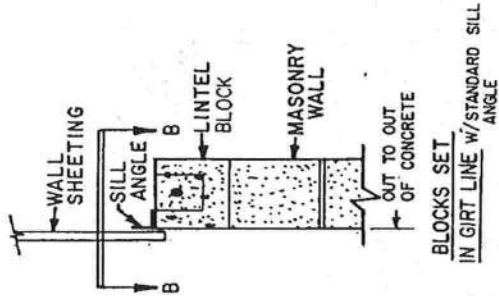
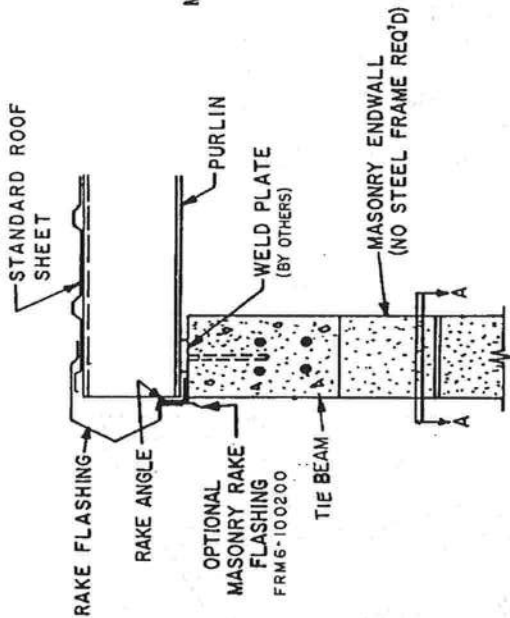
A.F. Head--Across Flats

54

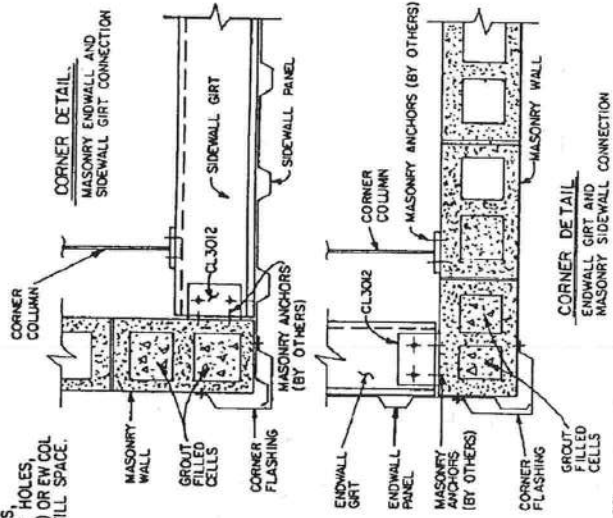
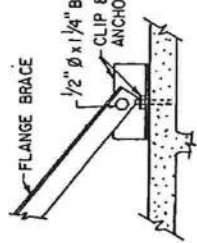
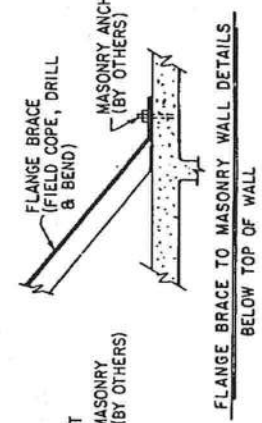
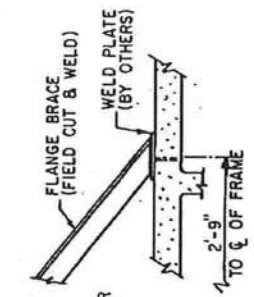
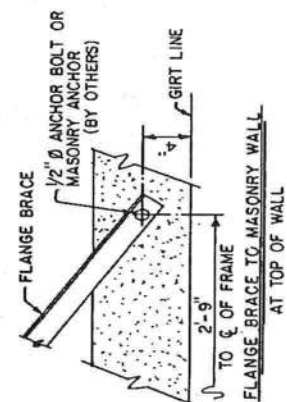
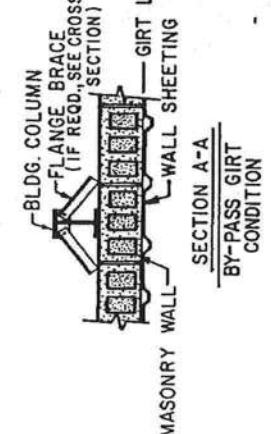
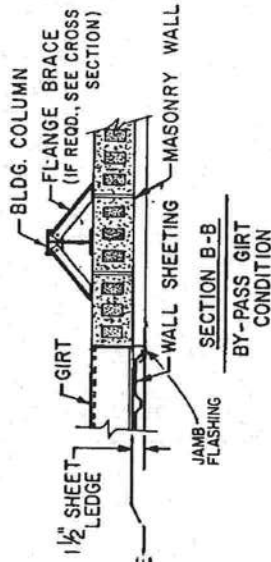
06.28.05



Dean Steel Buildings recommends that the eave strut be bolted to the masonry wall with anchors (by others) spaced no more than 10'-0" on center.

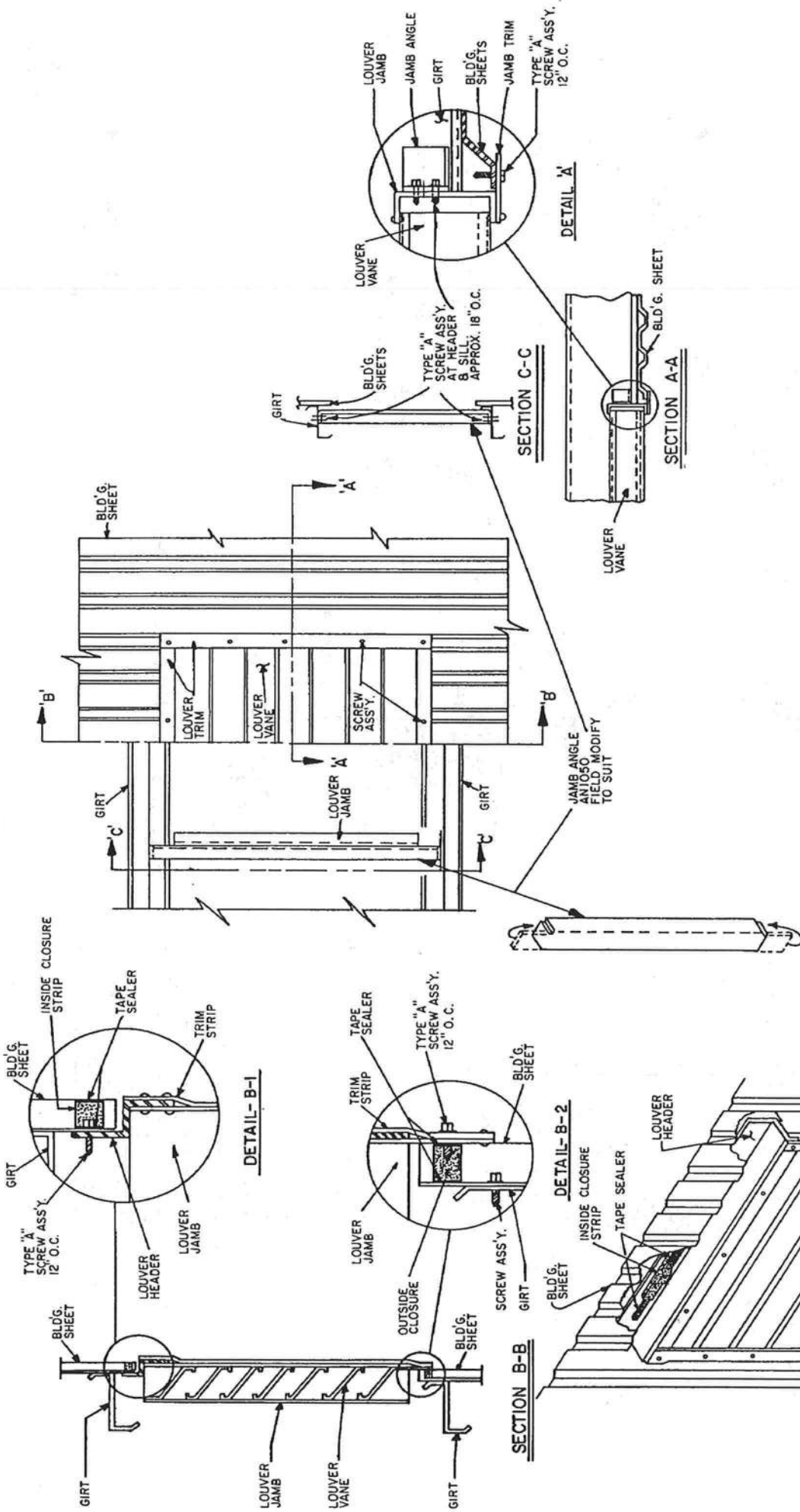


NOTE: FILL CELLS AT THE COLUMN AND FLANGE BRACE CONNECTIONS. COLUMN FLANGE BRACE MUST BE INSTALLED AS SHOWN FOR BLDG. TO HAVE ITS FULL DESIGN STRENGTH.



Masonry Details

Fixed Louver Assembly Details



LOUVER SCHEDULE			
SIZE (NOMINAL)	SHEET OPENING DIMENSION		
	WIDTH	HEIGHT	WIDTH
2'-0"	2'-0"	1'-9 1/2"	1'-10 1/2"
3'-0"	3'-0"	2'-9 1/2"	2'-10 1/2"
4'-0"	4'-0"	3'-9 1/2"	3'-10 1/2"

CL3016

2'-6" GIRT
OF NECESSARY
FIELD CUT AS
REQUIRED

FIELD DRILL
AS REQUIRED

SD SCREW 18" D.C.

WALL PANEL

2 7/8"

JAMB FIN

CL3013

2'-3 1/2"

1'-9 3/4"

WALL PANEL ABOVE
2070 WINDOW

2070 BRONZE PICTURE WINDOW

7'-4" GIRT

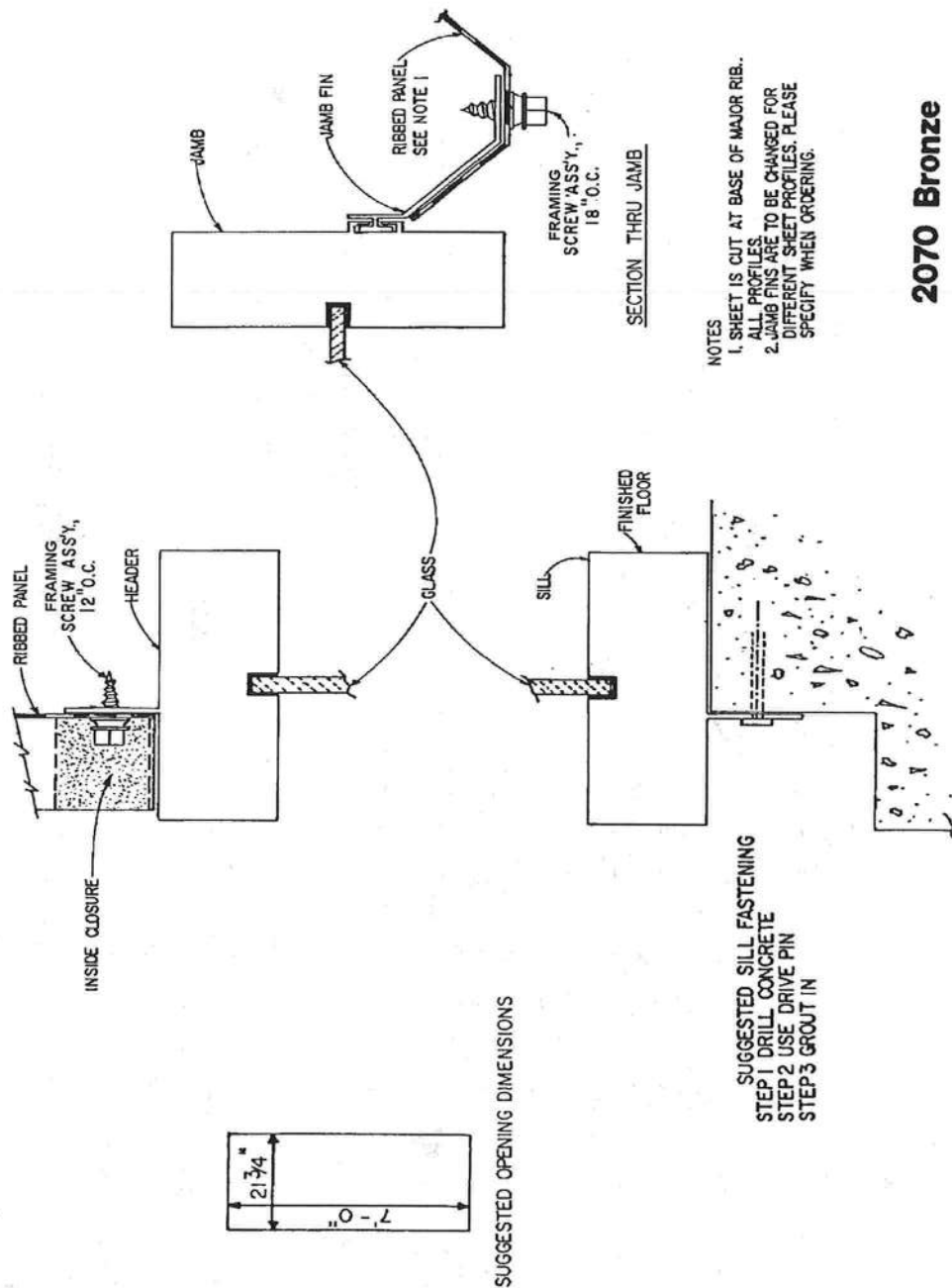
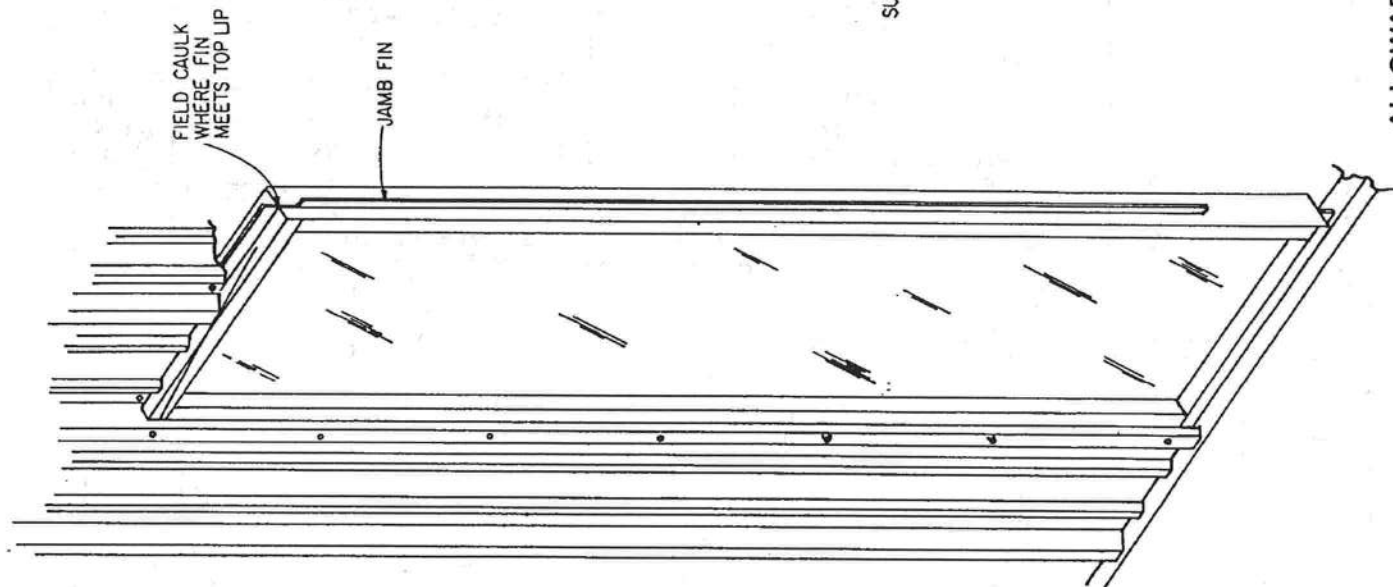
FIELD LOCATE HOLES
AS REQUIRED

SD SCREW

ST SCREW

FOR RED STEEL
FRAMING DETAILS
SEE MISCELLANEOUS
FRAMED OPENING
(NO HEADER REQUIRED)

FRAMED OPENING
NOT REQUIRED ON BUILDINGS
WITH 80 & 100 MPH WINDS



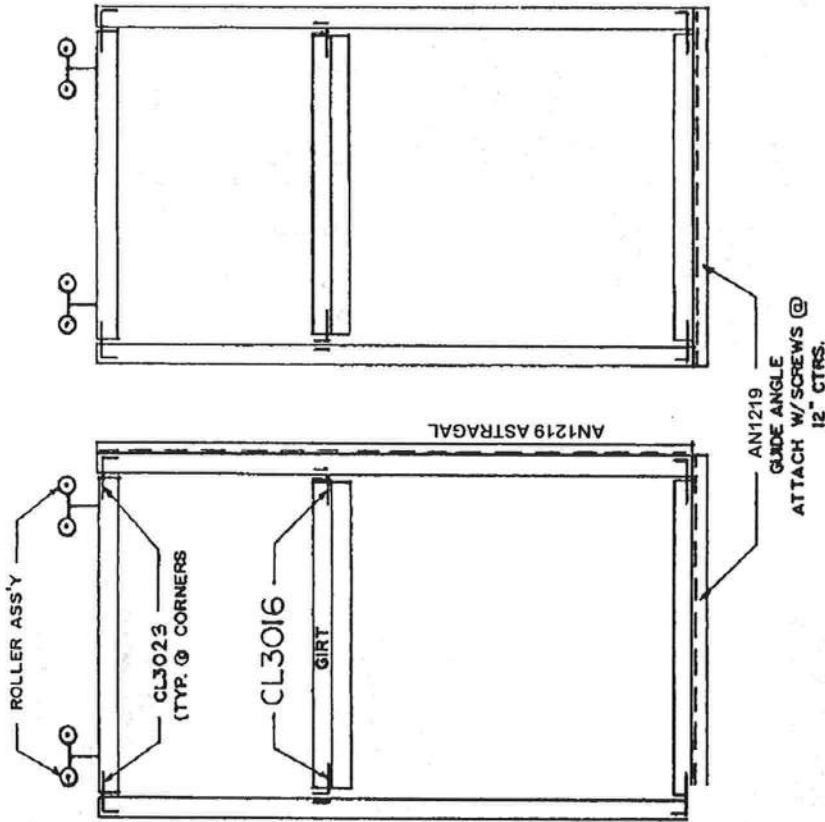
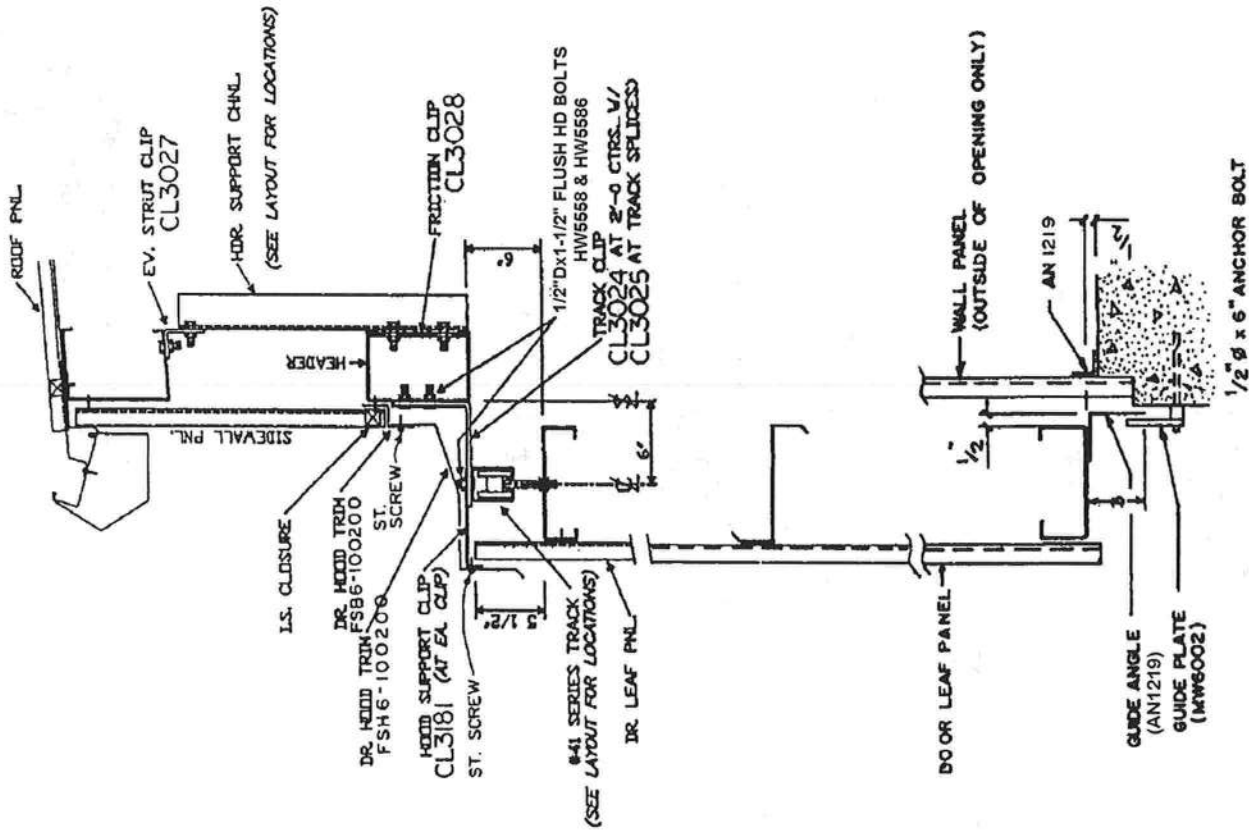
NOTES

1. SHEET IS CUT AT BASE OF MAJOR RIB..
2. JAMB FINIS ARE TO BE CHANGED FOR DIFFERENT SHEET PROFILES. PLEASE SPECIFY WHEN ORDERING.

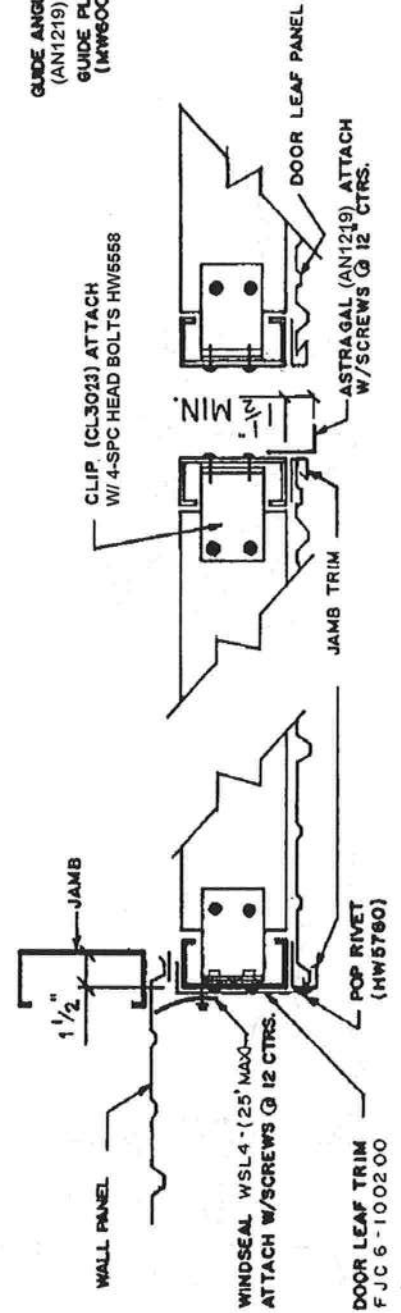
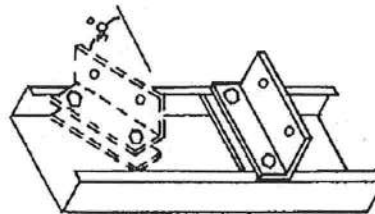
2070 Bronze Picture Window

SECTION THRU SILL
AND HEADER

ALLOWABLE WIND LOAD = 45.0 PSF



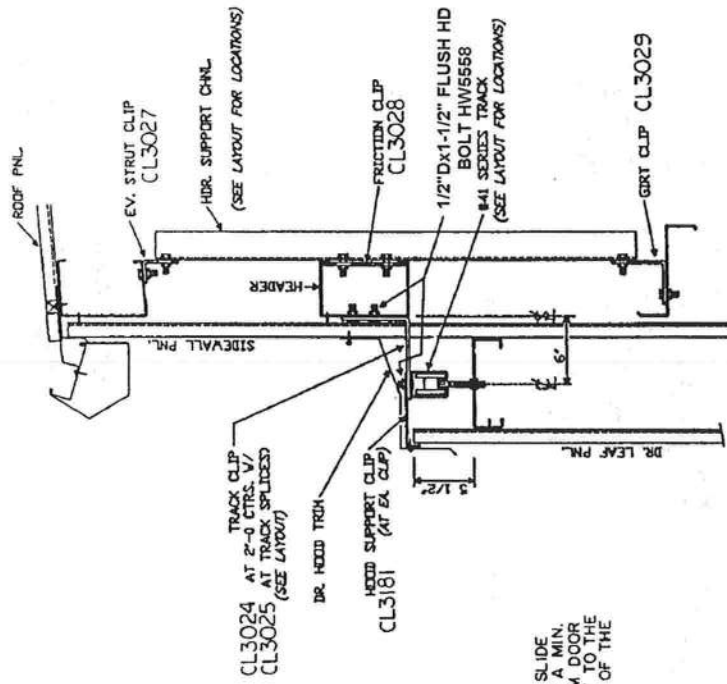
CAUTION TO BUILDER
DO NOT STAND ON CL3016 DURING THE ERECTION PROCESS.



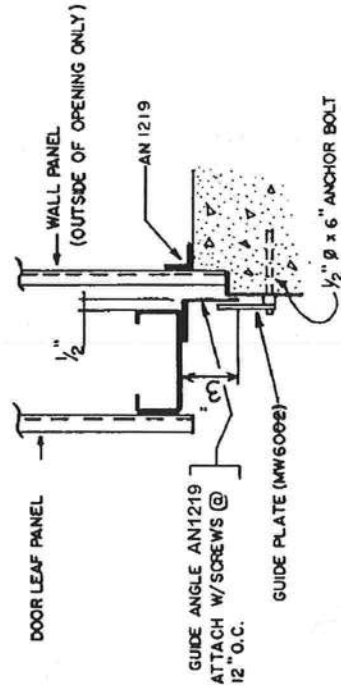
Slide Door Leaf Details

46

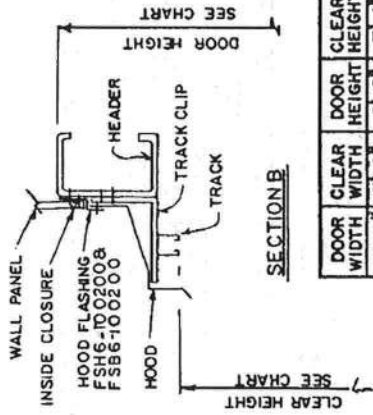
12.9.2010



SECTION "C"
(OUTSIDE OF OPENING)



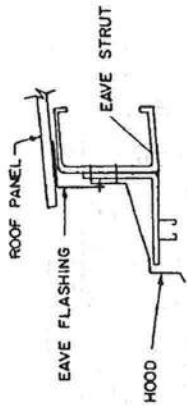
SECTION "C"
(OUTSIDE OF OPENING)



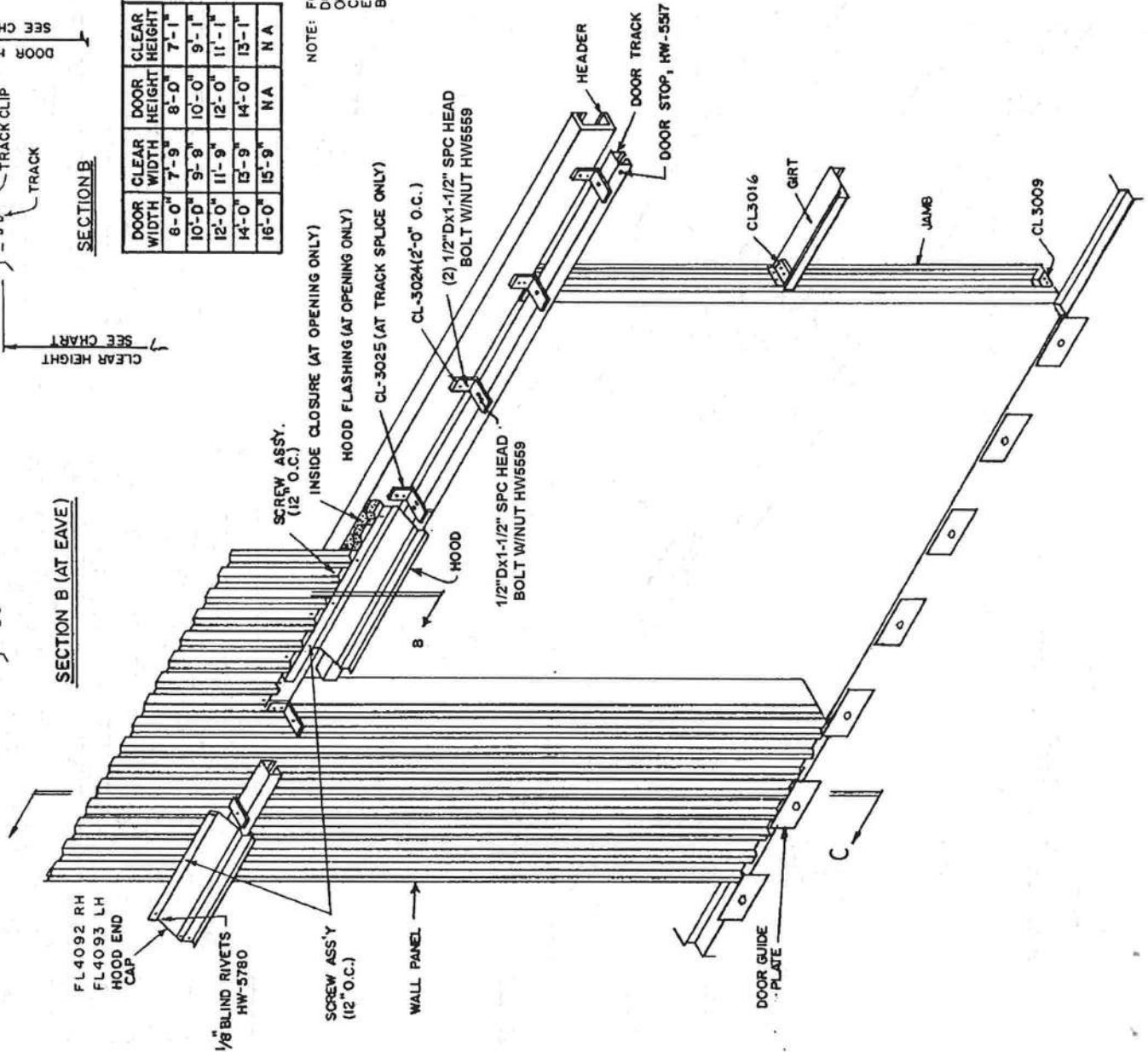
SECTION B
(AT EAVE)

DOOR	CLEAR WIDTH	CLEAR HEIGHT	DOOR WIDTH	DOOR HEIGHT	CLEAR WIDTH	CLEAR HEIGHT
6'-0"	7'-9"	8'-0"	7'-1"	7'-1"	7'-1"	7'-1"
10'-0"	9'-9"	10'-0"	9'-1"	9'-1"	9'-1"	9'-1"
12'-0"	11'-9"	12'-0"	11'-1"	11'-1"	11'-1"	11'-1"
14'-0"	13'-9"	14'-0"	13'-1"	13'-1"	13'-1"	13'-1"
16'-0"	15'-9"	N/A	N/A	N/A	N/A	N/A

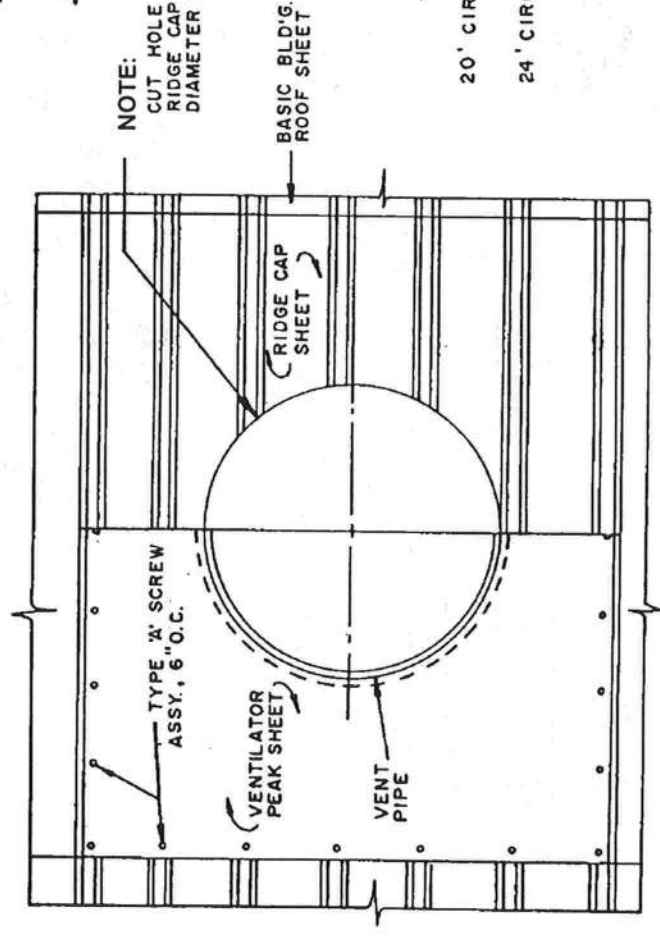
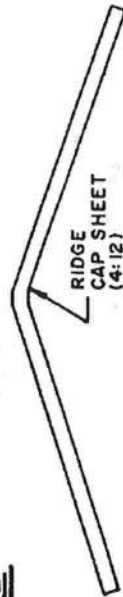
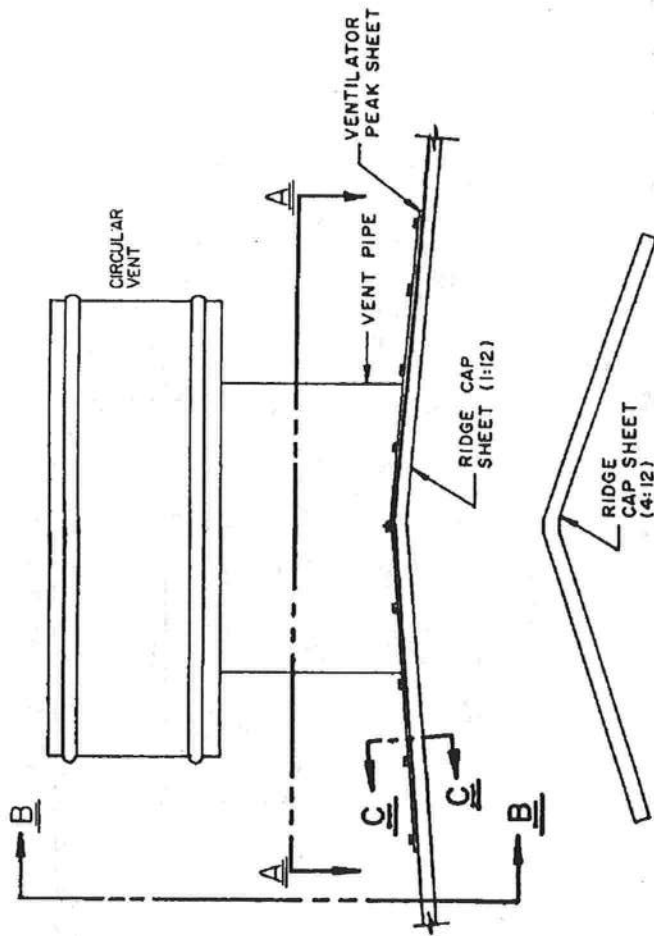
NOTE: FOR ENDWALL SLIDE DOORS ALLOW A MIN. OF 1'-8" FROM DOOR CLEAR HEIGHT TO THE EAVE HEIGHT OF THE BUILDING



SECTION B
(AT EAVE)



Slide Door Opening Isometric



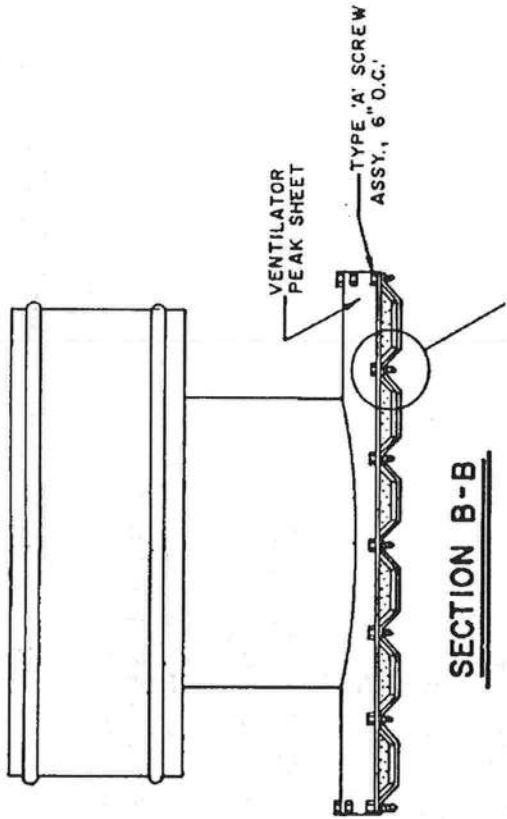
SECTION A-A

NOTE:
CUT HOLE IN
RIDGE CAP SAME
DIAMETER AS VENT.

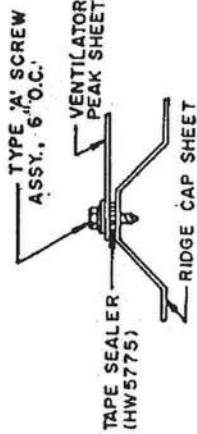
PARTS SCHEDULE

20' CIRCULAR VENT	1:12	W/O DAMPER ONLY	VT7000
	4:12		VT7002
24' CIRCULAR VENT	1:12	W/O DAMPER ONLY	VT7004
	4:12		VT7006

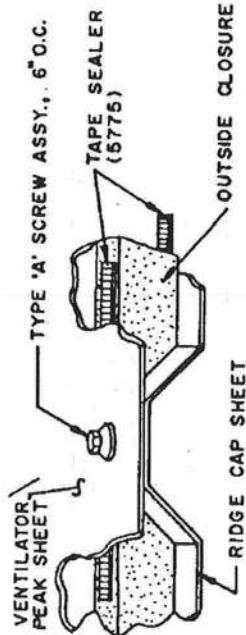
**Circular Vent
Details**



SECTION B-B

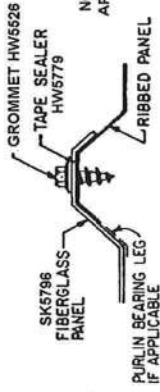
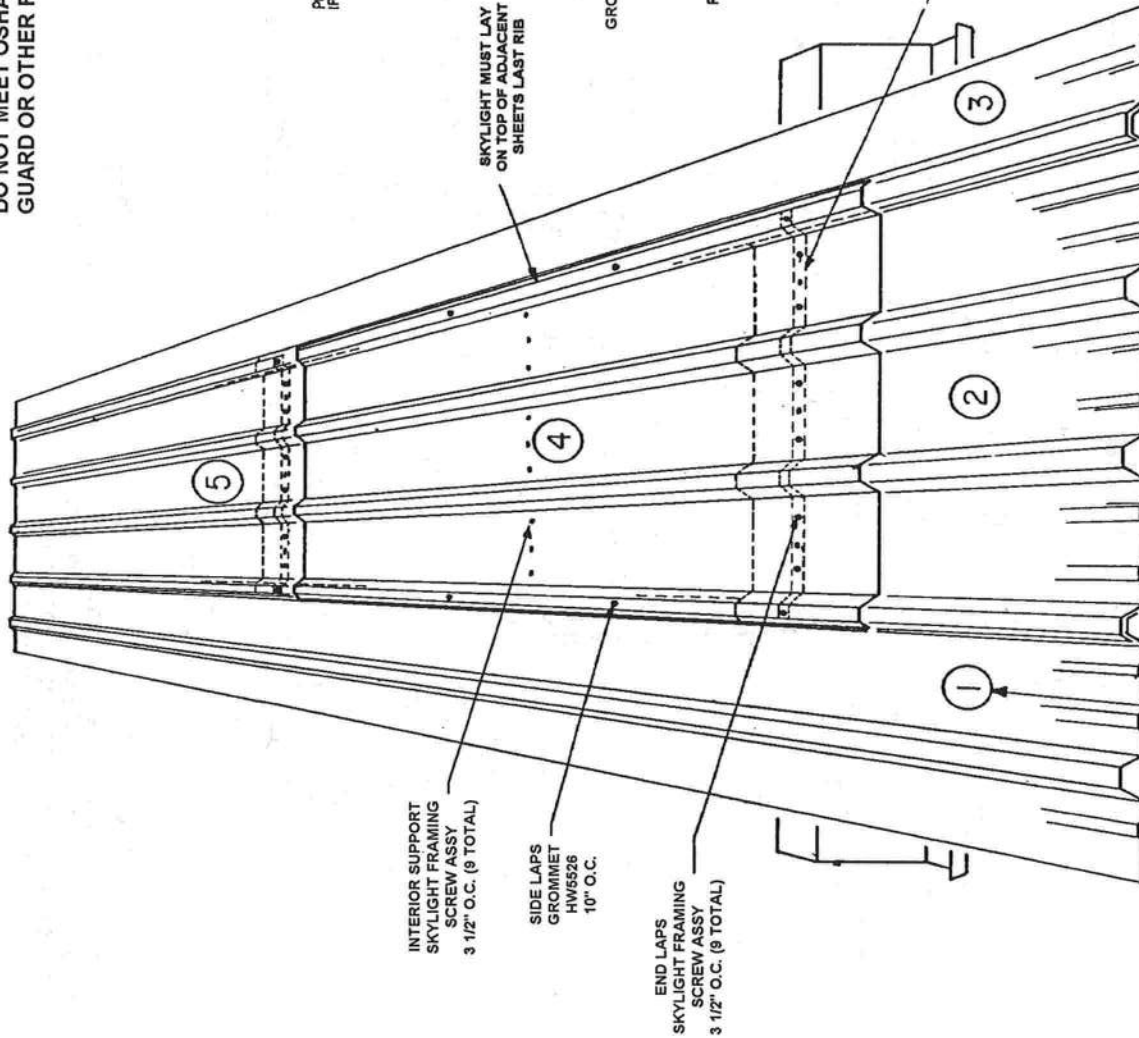


SECTION C-C



DETAIL B-1

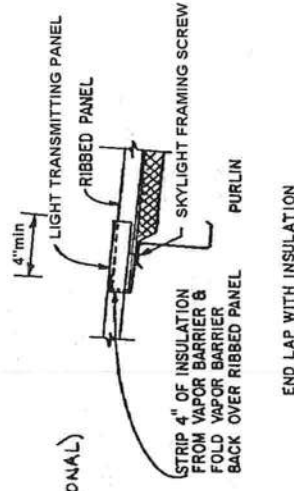
NOTE: DSB PROVIDED LIGHT TRANSMITTING PANELS
DO NOT MEET OSHA FALL PROTECTION REQUIREMENTS.
GUARD OR OTHER FALL PROTECTION DEVICE REQUIRED.



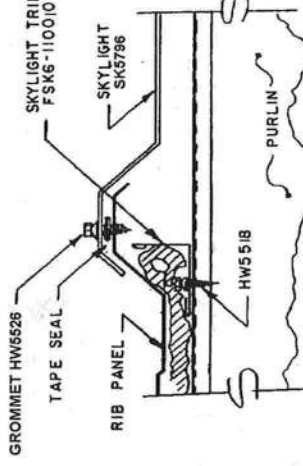
NOTE: SKYLIGHT TO SKYLIGHT
APPLICATIONS NOT PERMITTED

TYPICAL SIDE LAPS

SKYLIGHT MUST LAY
ON TOP OF ADJACENT
SHEETS LAST RIB



STRIP 4\"/>



SKYLIGHT TRIM INSTALLATION
IF SKYLIGHT TRIM IS NOT USED,
ROLL BACK INSULATION AS REQUIRED.

TAPE SEALER
HW5779
BOTH END LAPS
AND SIDE LAPS

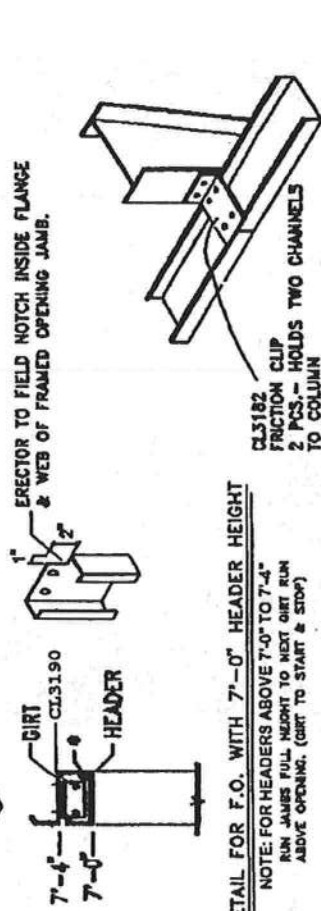
RECOMMENDED ORDER OF
PLACING OF PANELS

CAUTION

DO NOT STAND ON LIGHT TRANSMITTING PANELS.
LTP'S ARE NOT DESIGNED TO CARRY CONCENTRATED
LOAD. STANDING ON LTP'S MAY CAUSE THE PANEL
TO FAIL RESULTING IN SEVERE PERSONAL INJURY.

THE INSTALLATION INSTRUCTION
FOR FL13793 SUPERSEED THESE INSTRUCTIONS.

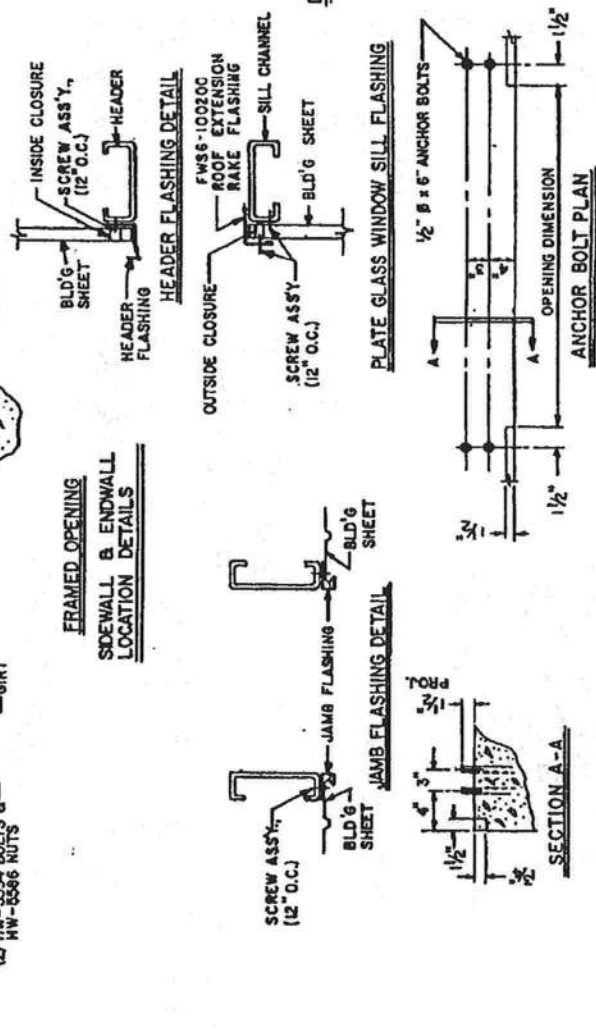
FLORIDA PRODUCT
APPROVAL
LIGHT TRANSMITTING
PANELS



**Miscellaneous Framed
Opening Details 38**

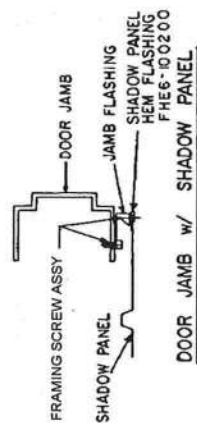
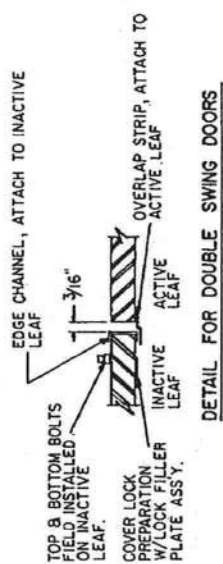
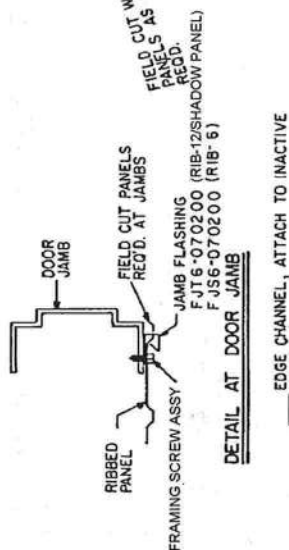
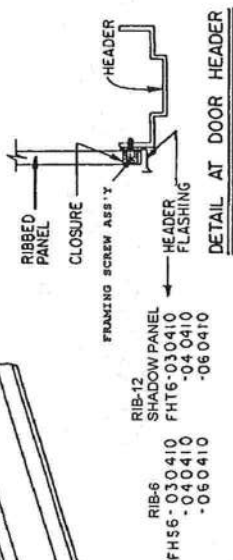
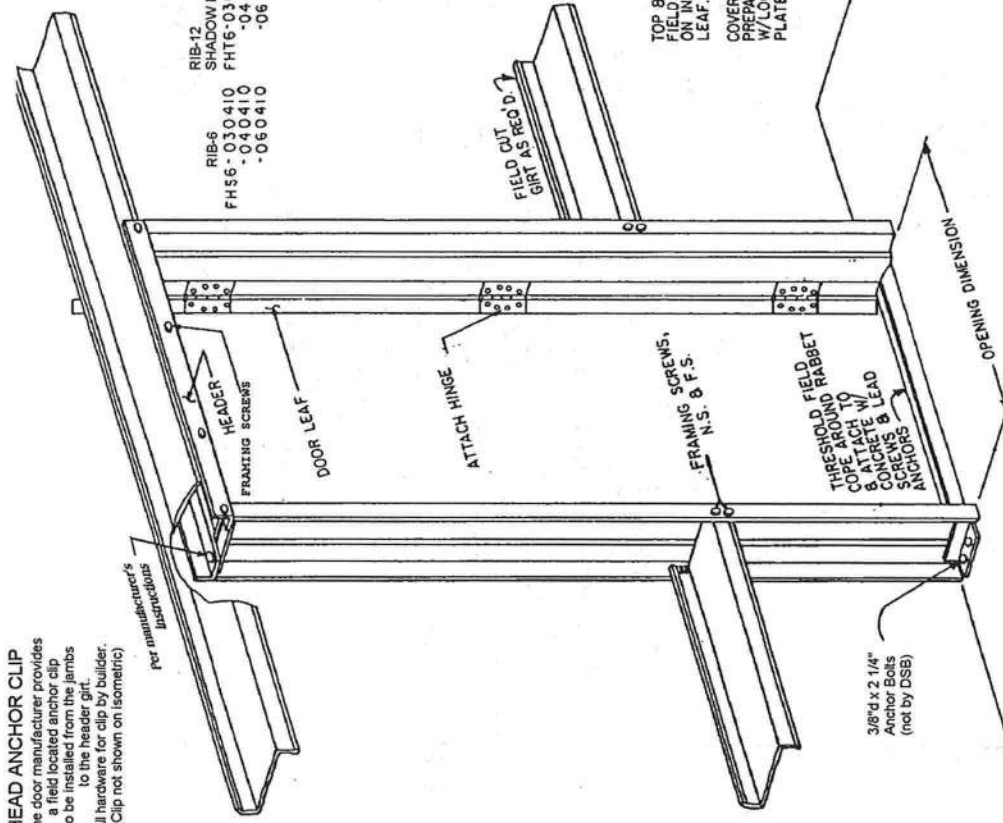
12.9.2010

NOTE:
JAMB TRIM PREFIX IS FJT6- (R18-12)
FS6- (R18-6)
WEADER TRIM PREFIX IS FHT6- (R18-12)
FHS6- (R18-6)



HEAD ANCHOR CLIP
The door manufacturer provides a field located anchor clip to be installed from the jamb to the header clip. All hardware for clip by builder. (Clip not shown on isometric)

per manufacturer's instructions



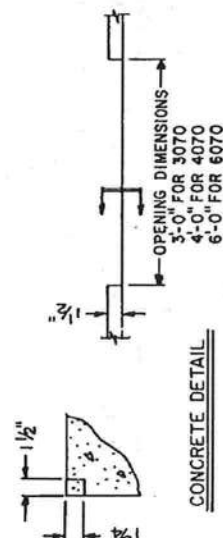
Note:

See manufacturer's installation instructions for size and location of all bolts and screws.

The purpose of this sheet is to show the interaction of the metal building and door and is not meant to replace the manufacturer's installation instructions.

Product Approval numbers are shown on cover sheet of drawing package.

Self Framing Walk Door Details





Sloped Fascia Framing & Flashing Details



Gauge of members shown
will vary with wind load & code

***Note: Eave & Canopy**



—SCREW ASS'Y. 12" O.C.

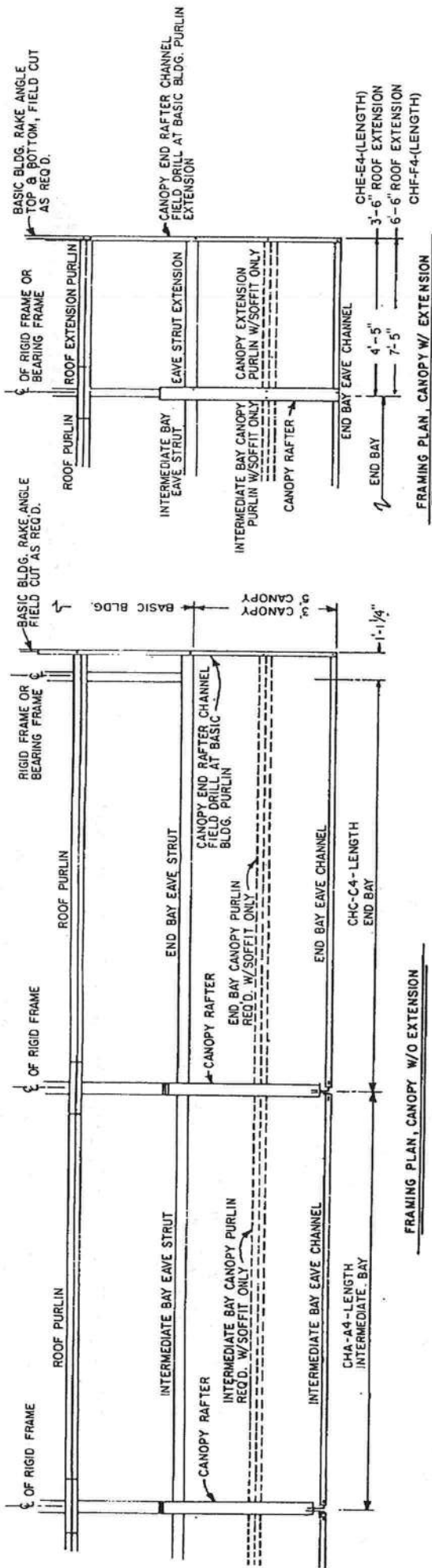


— CANNOPY COEFFIT

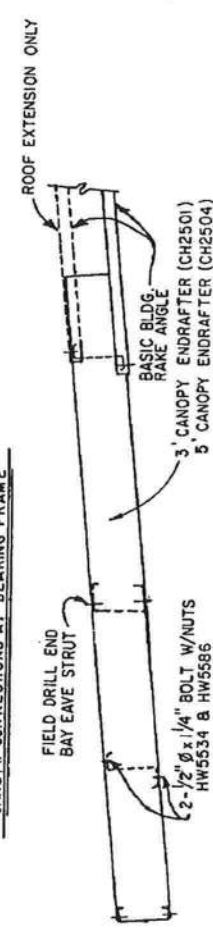
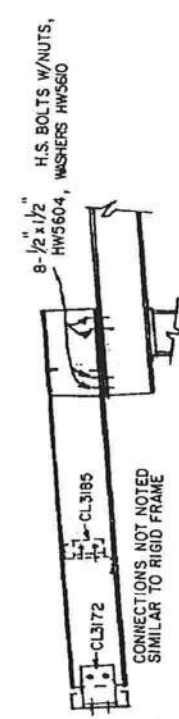
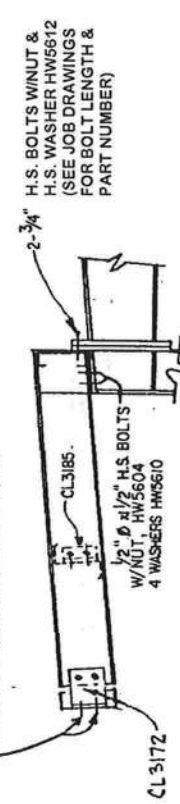


ROOF EXTENSION AT EAVE

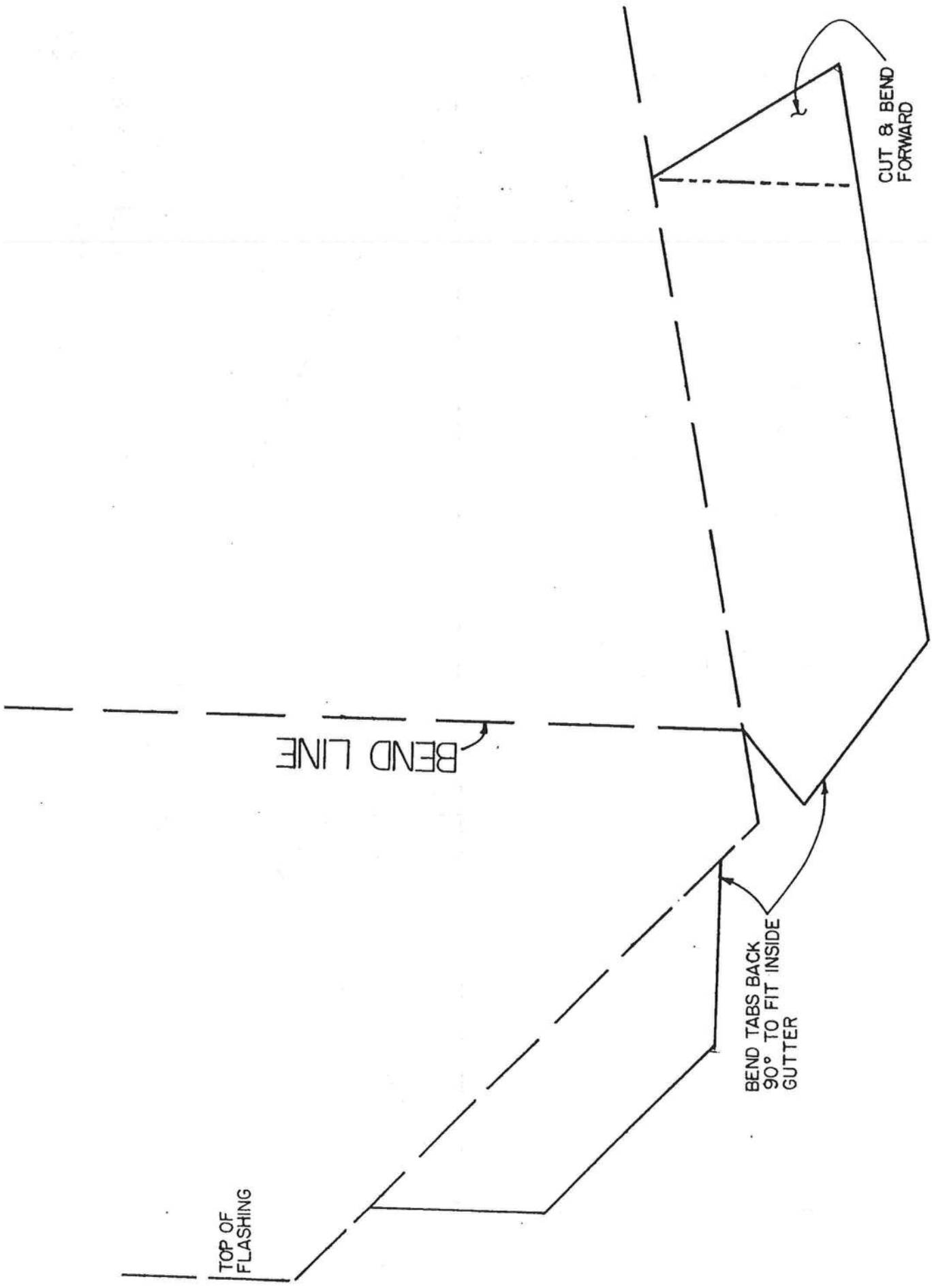
Straight Beam Canopy/ Roof Extension Sheeting & Flashing Details



(2) 1/2" D x 1-1/2" Spc Head bolts w/nuts
HW5558 (at each eave channel & purlin)

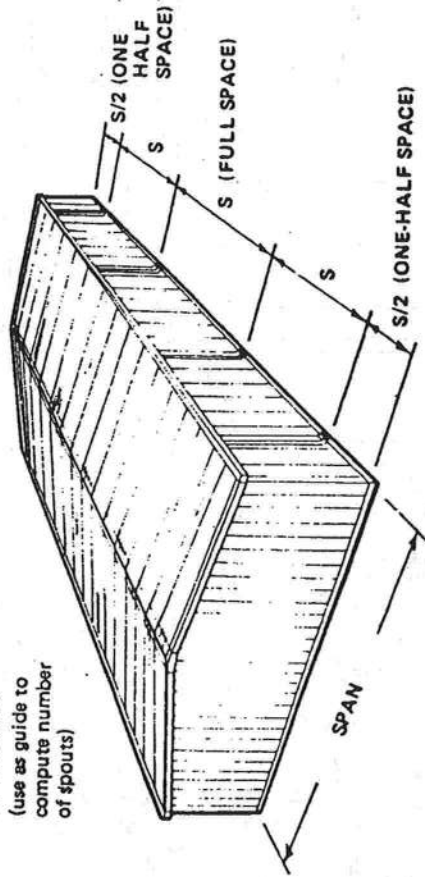


Straight Beam Canopy Framing Details



DOWNSPOUT SPACING

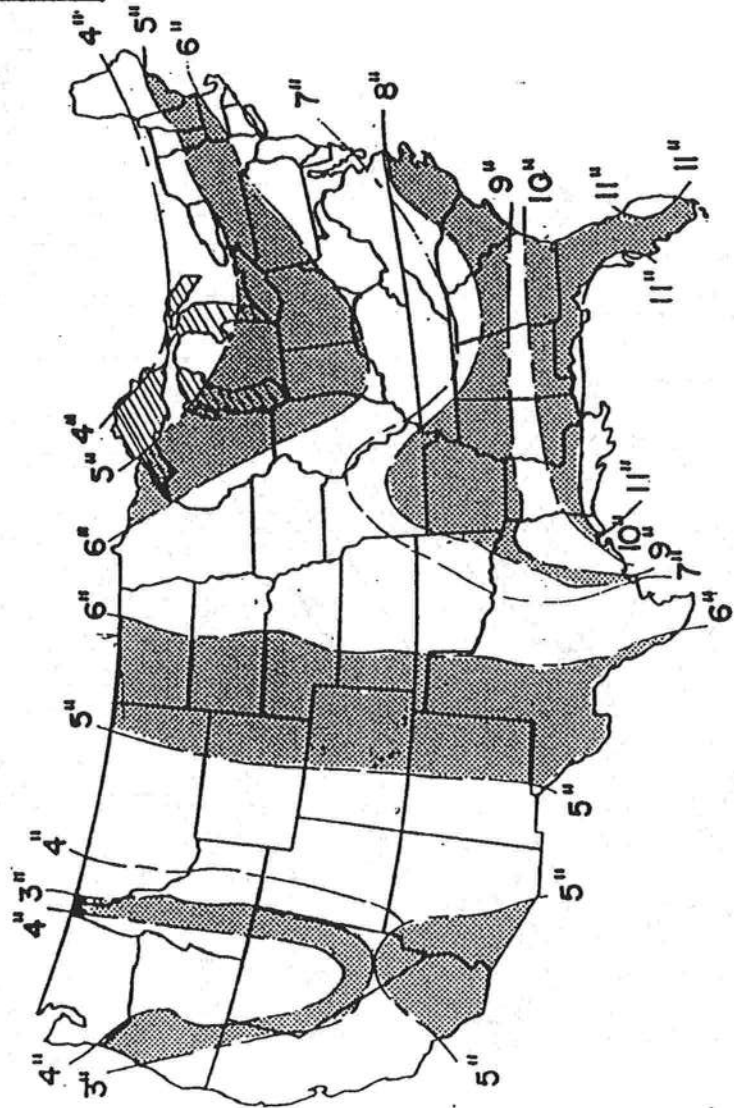
(use as guide to compute number of spouts)

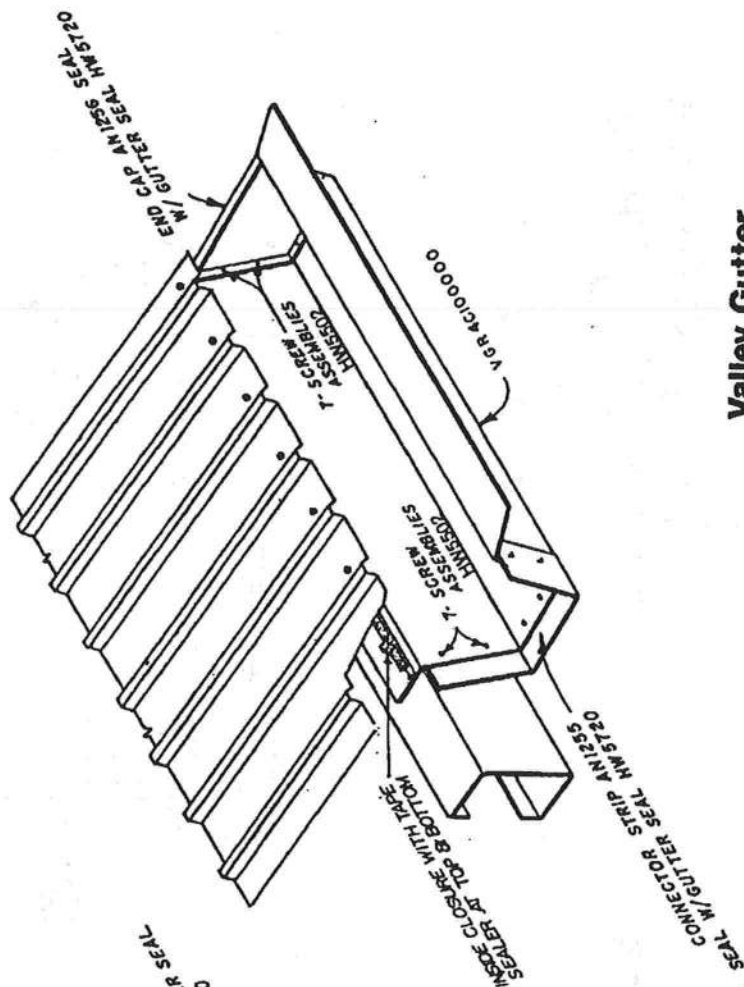
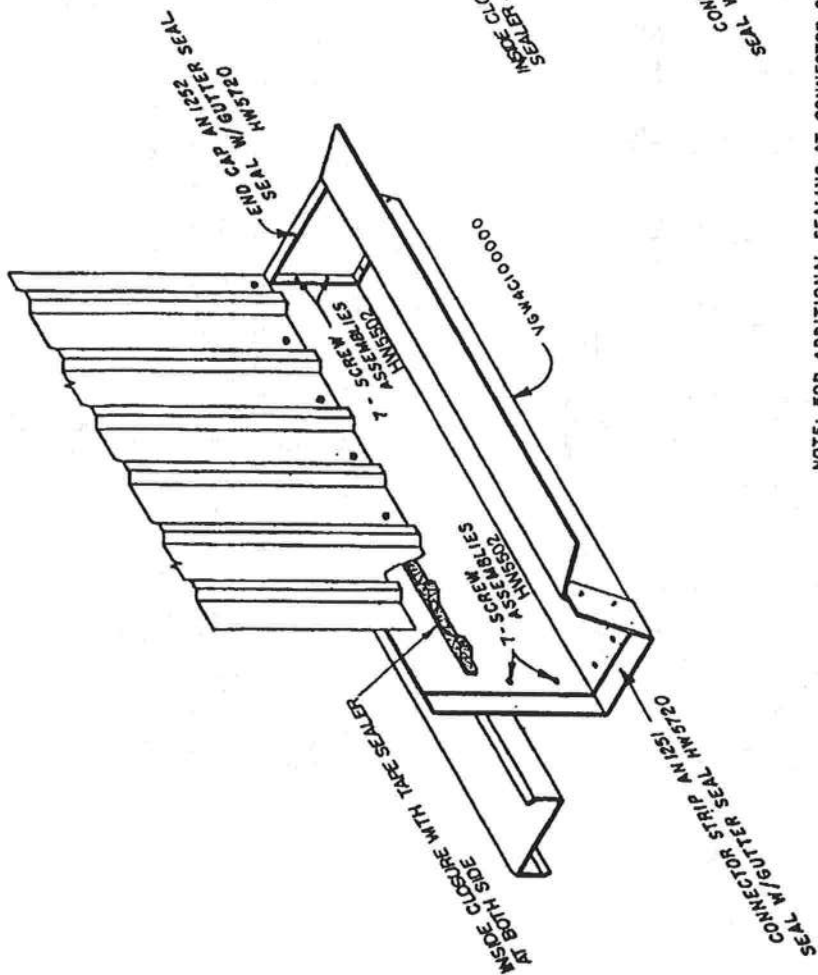
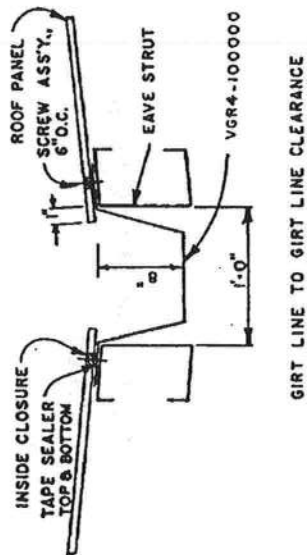
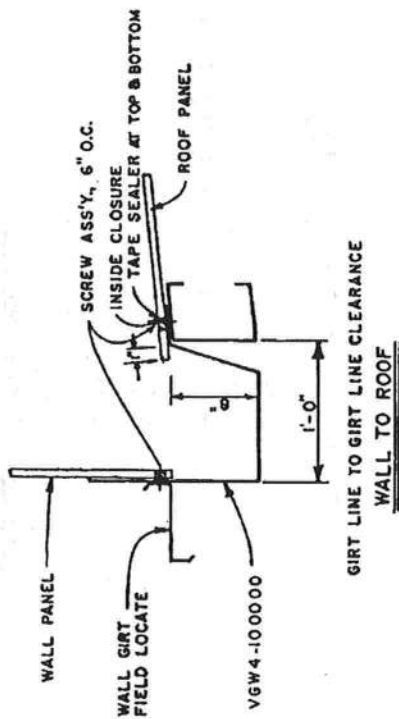


Maximum Distance Between Downspouts 4" x 5" Downspout Spacing: 60' O.C.											
Bldg. Width	Maximum Rainfall										
	11"	10"	9"	8"	7"	6"	5"	4"			
20											
24											
30											
40	59'										
50	51'	52'	55'								
60	42'	47'	43'	54'							
70	38'	40'	44'	50'	53'						
80	33'	36'	40'	44'	50'	54'					
100	27'	30'	33'	36'	40'	47'	52'				
120	24'	27'	29'	31'	35'	38'	47'	54'			
130	24'	25'	27'	29'	33'	37'	43'	50'			
140	23'	23'	25'	27'	31'	35'	40'	46'			
150	22'	23'	24'	27'	29'	33'	37'	44'			
160	20'	23'	22'	25'	27'	31'	36'	44'			
180	20'	20'	22'	22'	25'	28'	33'	39'			
200	20'	20'	20'	20'	23'	25'	30'	36'			
220	20'	20'	20'	20'	22'	23'	28'	34'			
240	20'	20'	20'	20'	21'	22'	27'	31'			

NOTES:

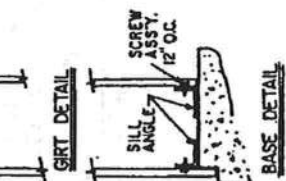
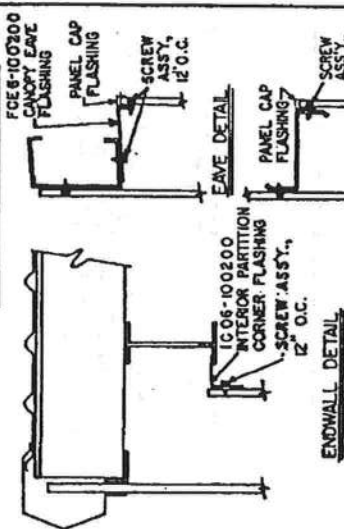
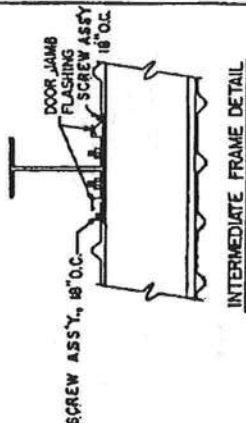
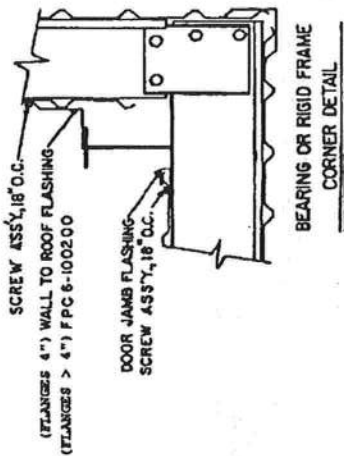
1. Reference is from Architectural Graphic Standards and U.S. Dept. of Commerce Climatic Maps of U.S.
2. Shaded areas of chart exceed standard gutter requirements. Non-standard gutter and downspouts may be required for adequate drainage - consult with Engineer.
3. For buildings with fascias or mansards, use 1/2 of the spacing indicated on the above chart.
4. Chart is for width or span of gabled buildings; single slope buildings would have twice the water for the span, so use double the width of the single slope to determine downspout spacing. Ex. for 60' wide S.S., use spacing for 120' bldg.
5. It is the builder's responsibility to determine the proper spacing for their local area.



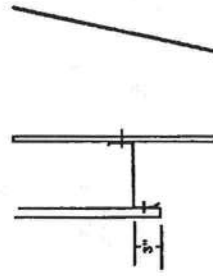
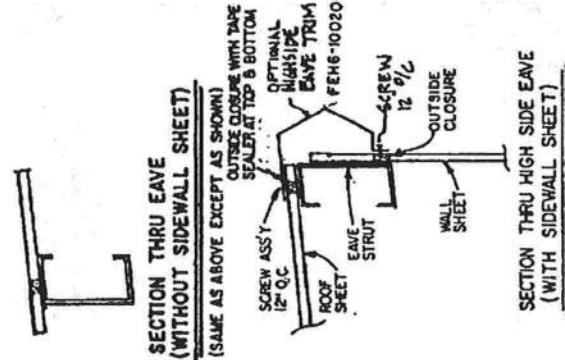
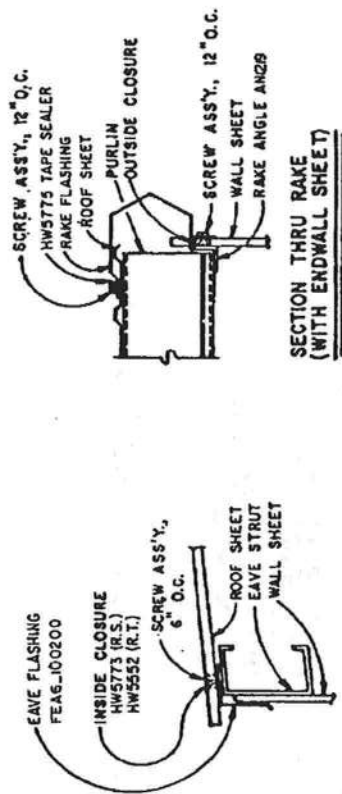


Valley Gutter Details

NOTE: FOR ADDITIONAL SEALING AT CONNECTOR STRIPS & END CAPS FIELD SOLDER JOINTS & SEAL WITH ROOFING CEMENT.(NOT BY DEAN STEEL BLDGS.)

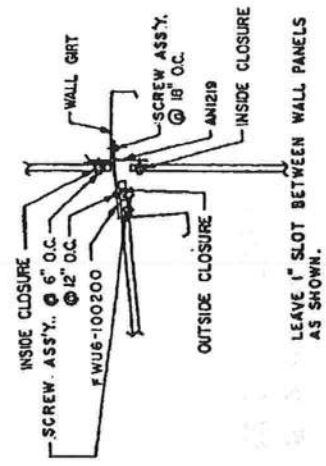
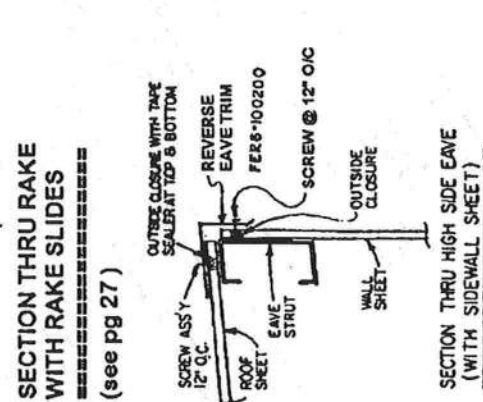
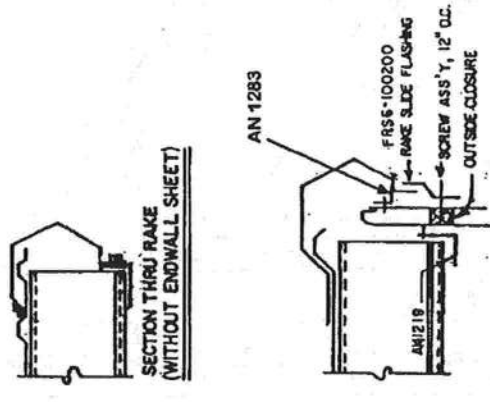
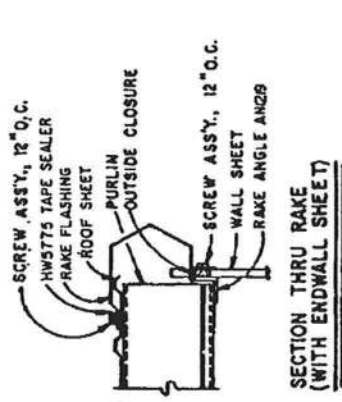


LINER PANEL DETAILS

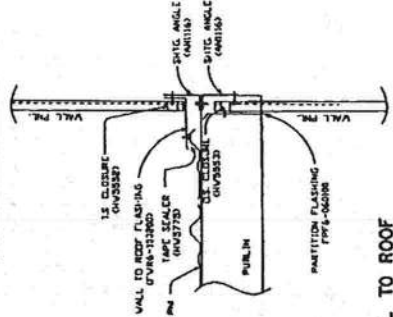
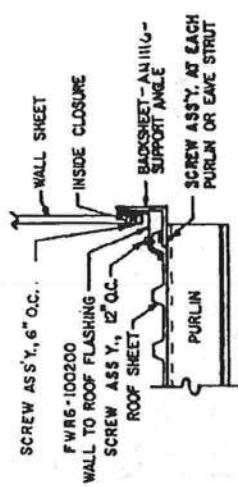


OPEN WALL DETAIL

Girt is reversed (turned down)
no trim provided unless requested
on purchase order (Optional)



LEAVE 1" SLOT BETWEEN WALL PANELS
AS SHOWN.



Roof Trim and Liner Panel Details



INSTRUCTIONS FOR INSTALLING A325 BOLTS BY THE "TURN-OF-NUT" METHOD

1. Align the connection holes with enough drift pins to maintain the dimensions and plumbness of the structure.
2. Enough bolts shall be brought to a "snug tight" condition to insure that the parts of the joint are brought into good contact with each other. ("snug tight" is defined as tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench.)
3. Bolts shall be placed in any remaining holes in the connection and brought to snug tightness. Hardened washers shall be used on nut side of connections.
4. All bolts in the connection shall then be tightened* additionally by the applicable amount of nut rotation specified in table-A, with tightening progressing systematically from the most rigid part of the joint to its free edges. During this operation there shall be no rotation of the part not turned by the wrench.
5. A307 bolts should be brought to a finger tight condition.

TABLE - A

A325 BOLTS		NUT ROTATION*** FROM SNUG TIGHT CONDITION	TENSION / KIPS
DIA.	LENGTH**		
1/2"	2" & SHORTER	1/3 TURN	12
5/8"	2" & SHORTER	1/3 TURN	19
5/8"	OVER 2", NOT OVER 4"	1/2 TURN	19
3/4"	3" & SHORTER	1/3 TURN	28
3/4"	OVER 3", NOT OVER 6"	1/2 TURN	28
7/8"	3 1/2" & SHORTER	1/3 TURN	39
7/8"	OVER 3 1/2", NOT OVER 7"	1/2 TURN	39
1"	4" & SHORTER	1/3 TURN	51
1"	OVER 4", NOT OVER 8"	1/2 TURN	51

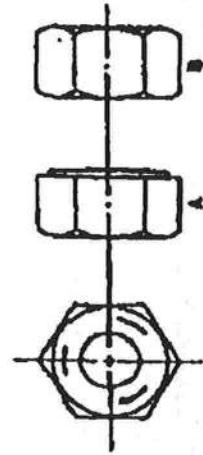
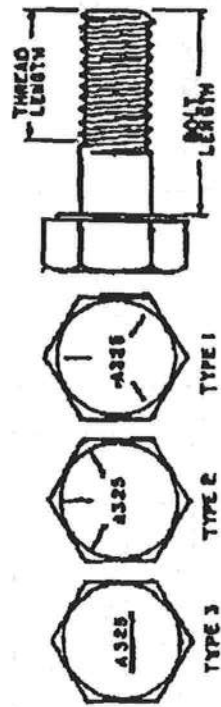
*Impact wrenches, if used, shall be of adequate capacity and sufficiently supplied with air to perform the required tightening of each bolt in approximately 10 seconds.

** Bolt length is measured from the underside of this to the extreme end of the point.

*** Nut rotation is relative to the bolt, regardless of the element (nut or bolt) being turned.
For bolts installed by 1/2 turn or less, the tolerance should be 130°.

AS STATED IN AISC SPECIFICATION FOR "STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."

A325 BOLT & NUT IDENTIFICATION



NUTS MAY BE WASHER FACED (A) OR DOUBLE CHAMFERED (B)

Turn-of-Nut Method

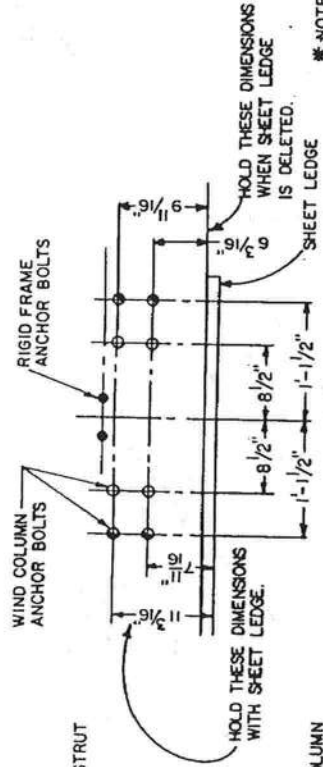
- - BASIC BLDG ANCHOR BOLTS
- - WIND COLUMN ANCHOR BOLTS
- - ADDITIONAL ANCHOR BOLTS USED WITH TYPE B & C WIND COLUMNS

ANCHOR BOLT SCHEDULE			
TYPE	DIAMETER	LENGTH	QTY
A	1"	2'-2"	4
B	1"	1'-6"	8
C	1 1/4"	2'-0"	8

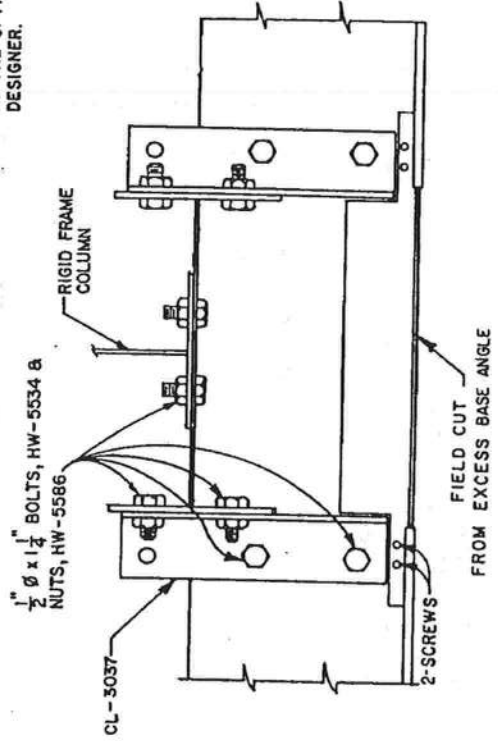
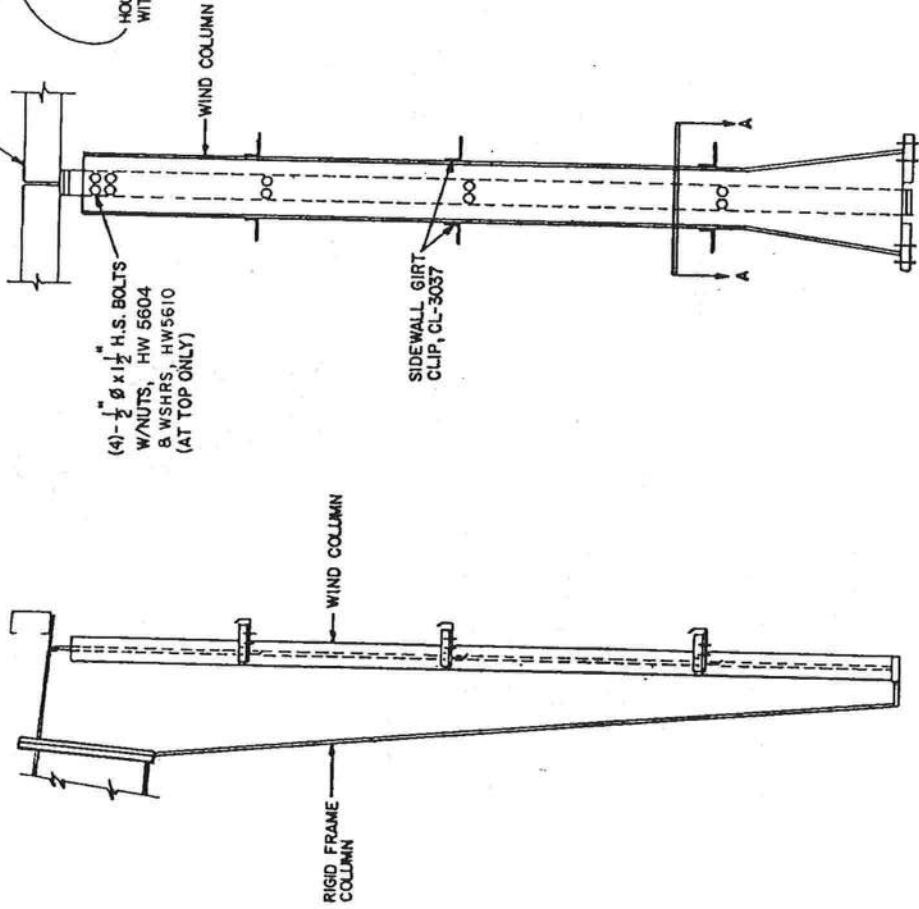
NOTE: ALL WIND COLUMN ANCHOR BOLTS HAVE A 2" PROJECTION

* NOTE: RECOMMENDED MINIMUM EMBEDDED LENGTH (INCLUDING HOOK) OF THE ANCHOR BOLTS AT FULL MOMENT CAPACITY OF THE WIND COLUMN. ANCHOR BOLT LENGTH IS BASED ON ALLOWABLE BOND STRESS OF 160psi PER PAGE 279, STRUCTURAL DESIGN GUIDE TO AISC SPECIFICATIONS FOR BUILDINGS, 1976 ED.

ALTERNATE LENGTHS MAY BE SPECIFIED AT THE OPTION OF THE FOUNDATION DESIGNER.



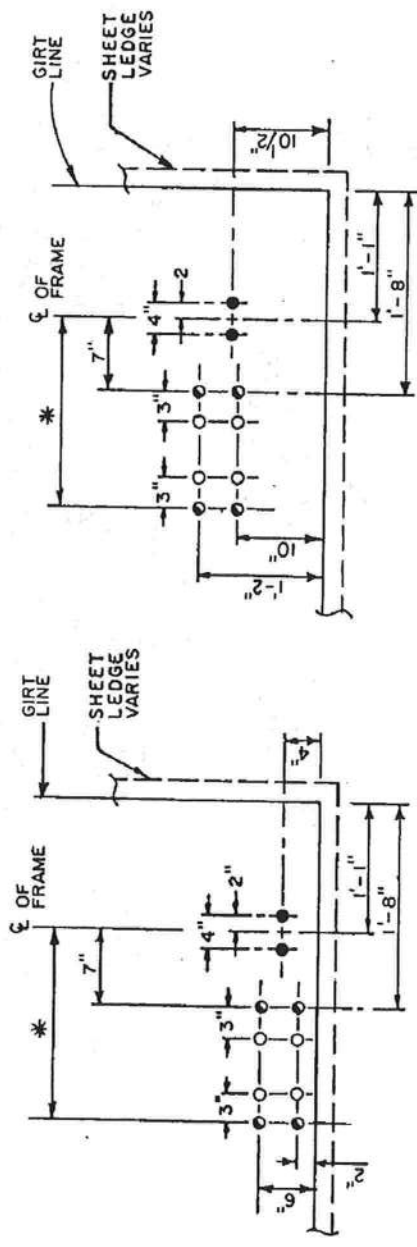
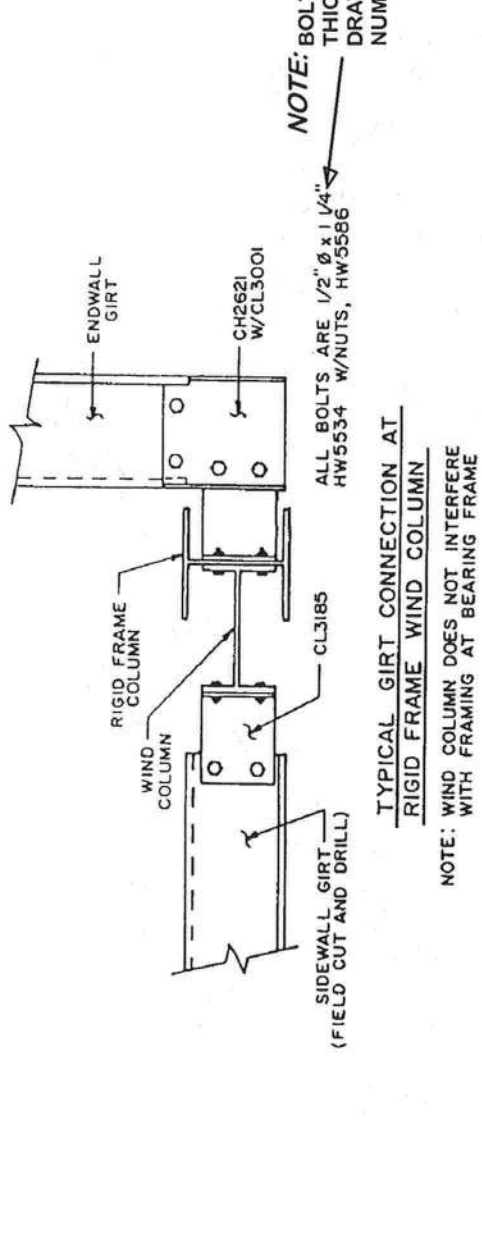
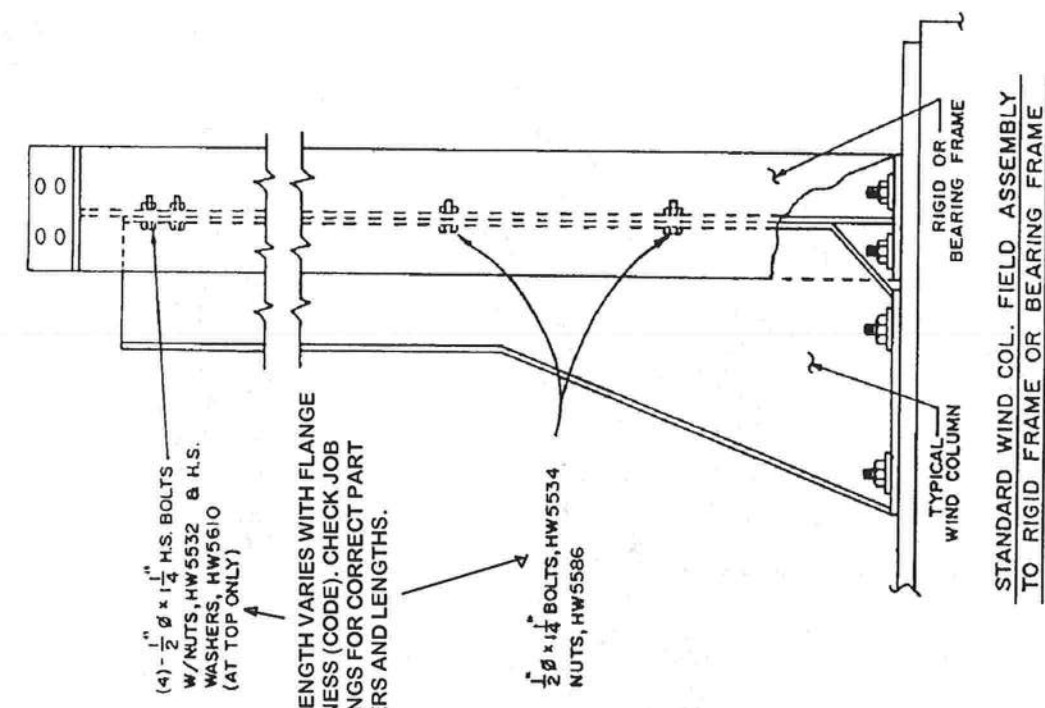
ANCHOR BOLT DETAIL



SECTION A-A
AT GIRT ELEVATIONS

Bypass Girt Wind Column Detail

Insert Girt Wind Column Details



STANDARD WIND COL. FIELD ASSEMBLY
TO RIGID FRAME OR BEARING FRAME

AT BYPASS GIRT FRAME

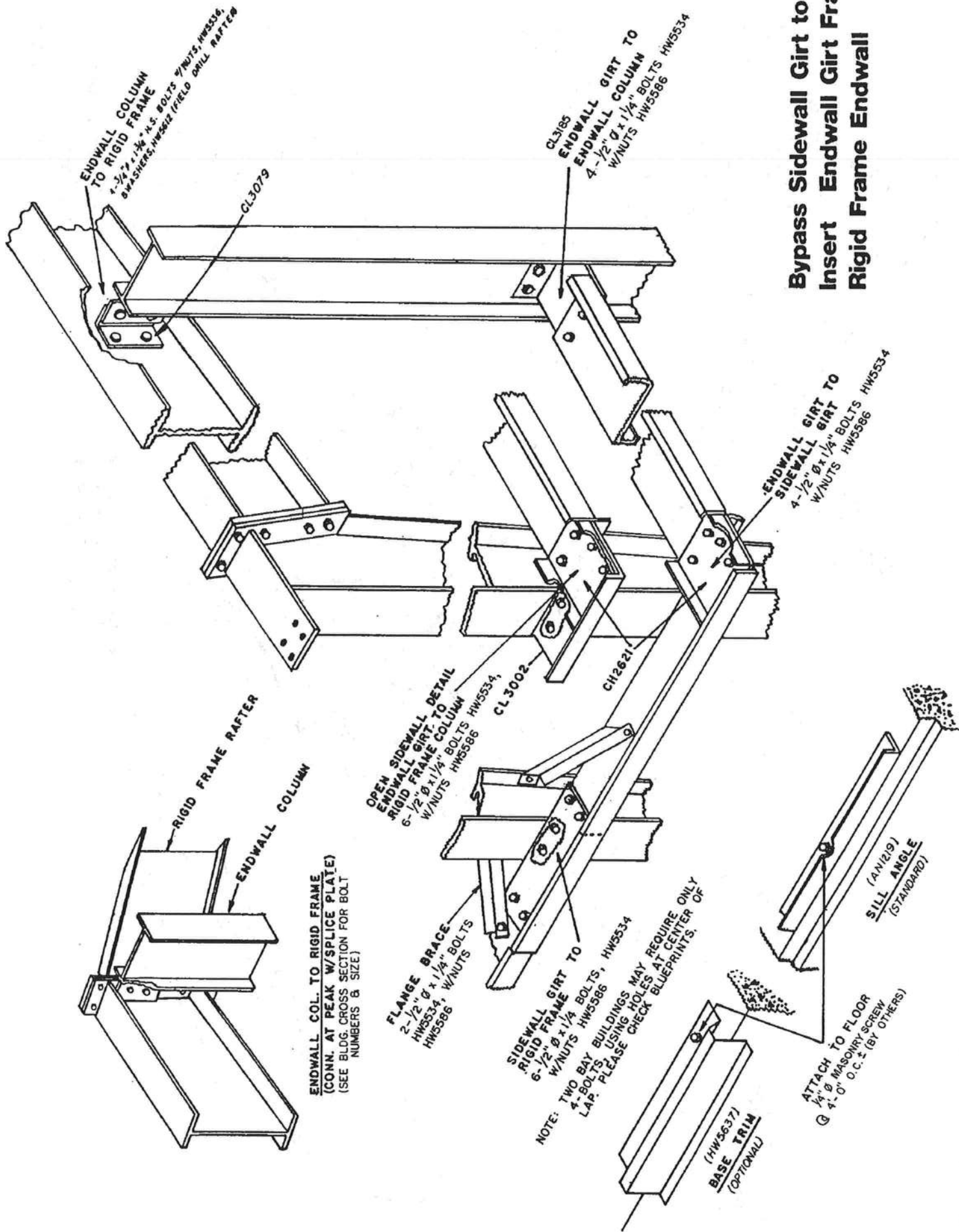
AT INSERT GIRT FRAME

WIND COLUMN
ANCHOR BOLT PLANS

NOTE: ALL WIND COLUMN ANCHOR BOLTS HAVE A 3" PROJECTION.
AT SIDEWALLS THAT ARE OPEN TO REMAIN OPEN IT IS RECOMMENDED FULLSUPPORT WIDTH BE MAINTAINED FOR RIGID FRAME WIND COLUMN LOCATIONS

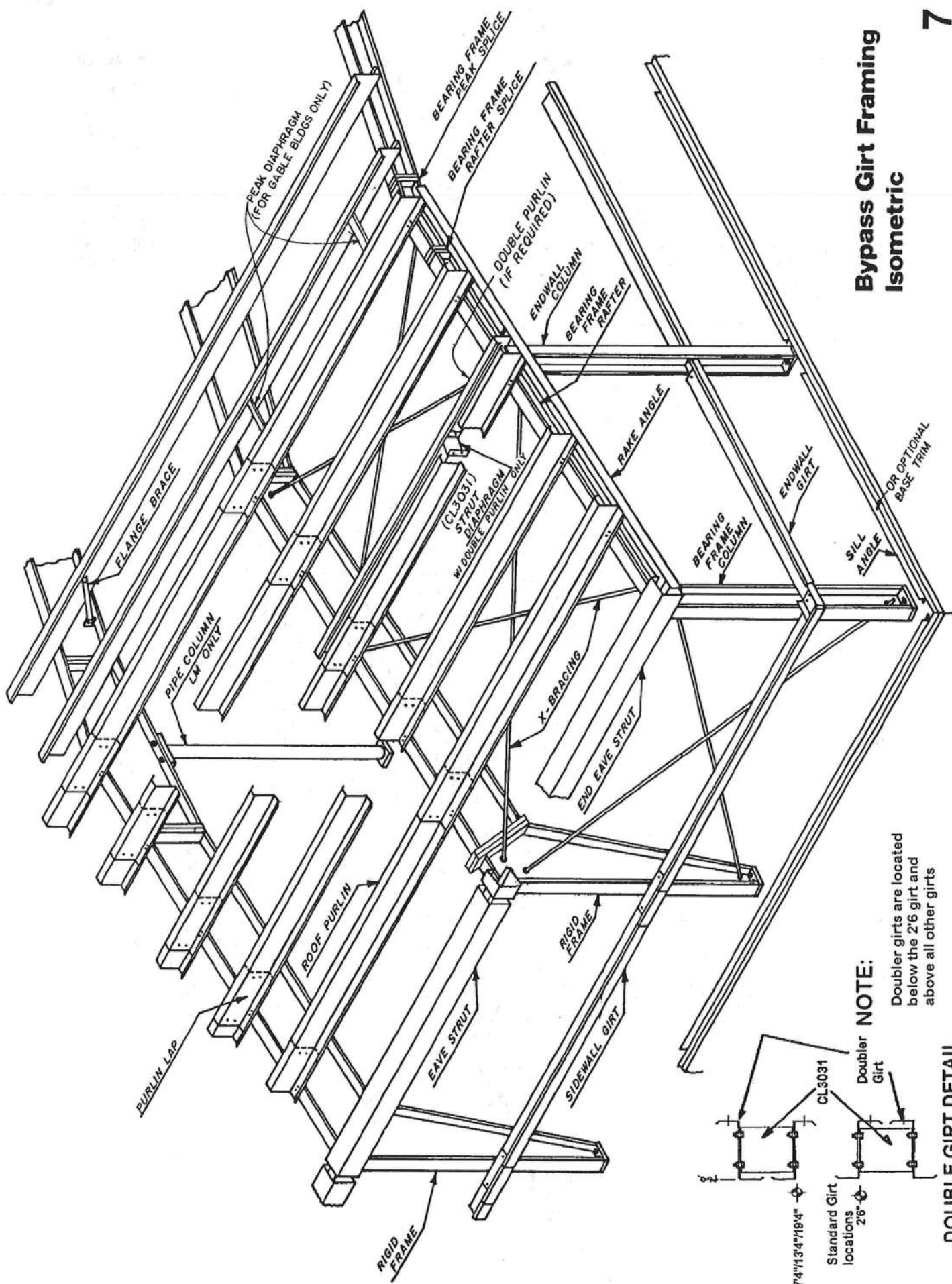
- - BASIC BLD'G. ANCHOR BOLTS
- - WIND COLUMN ANCHOR BOLTS
- - ADDITIONAL ANCHOR BOLTS USED ONLY WITH TYPE "E" WIND COLUMN

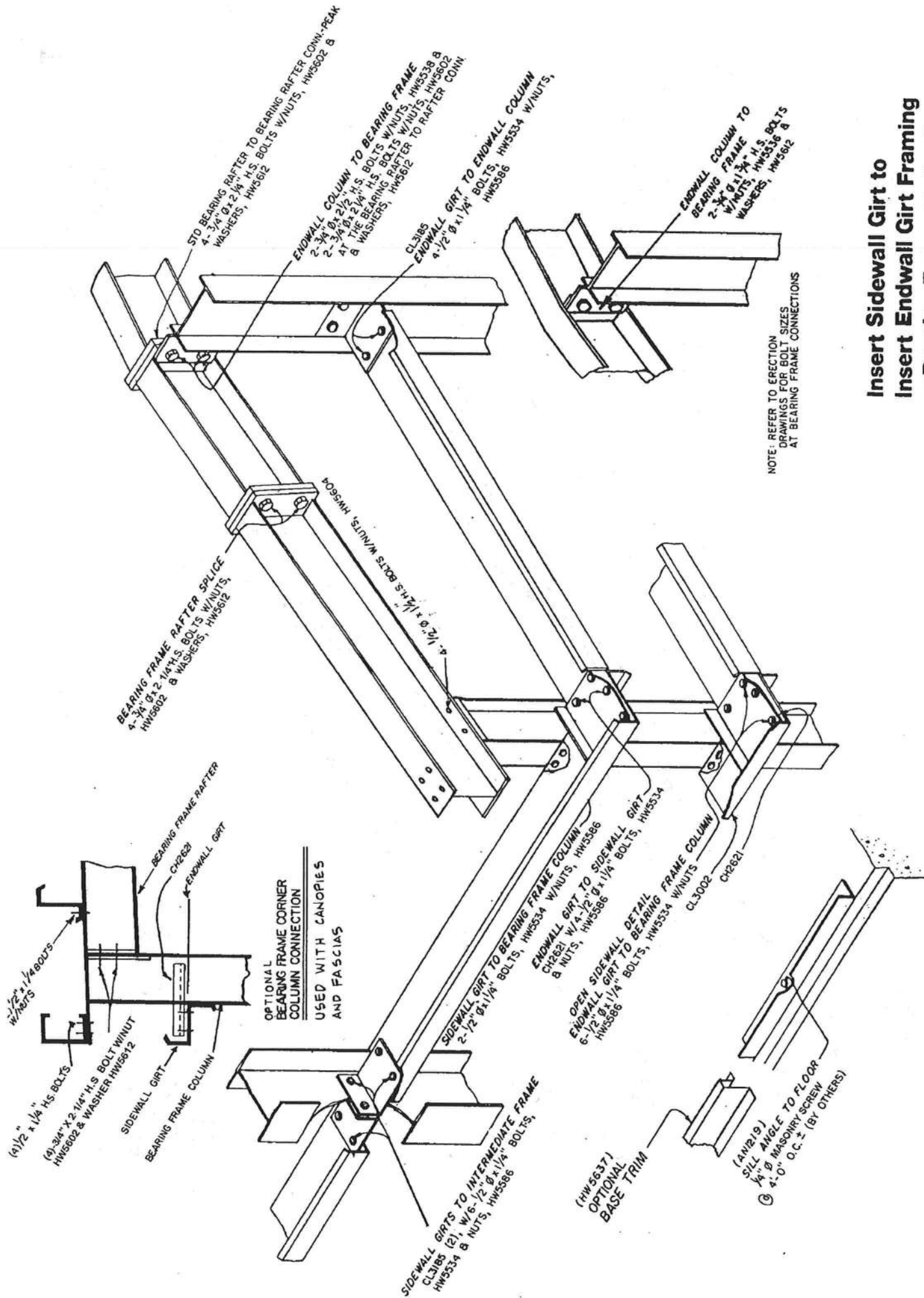
WIND COLUMN ANCHOR BOLT SCHEDULE				
COLUMN TYPE	* DIMENSION	QTY.	BOLT SIZE	
A	1'-2 1/2"	4	7/8" ϕ x 1'-3"	
B	1'-2 1/2"	4	1" ϕ x 1'-6"	
C	1'-2 1/2"	4	1 1/4" ϕ x 2'-0"	
D	2'-1"	4	1 1/4" ϕ x 2'-0"	
E	2'-6"	8	1 1/4" ϕ x 2'-0"	



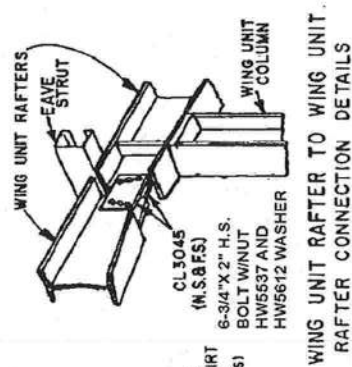
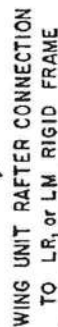
Bypass Sidewall Girt to Insert Endwall Girt Framing/ Rigid Frame Endwall

Bypass Girt Framing Isometric



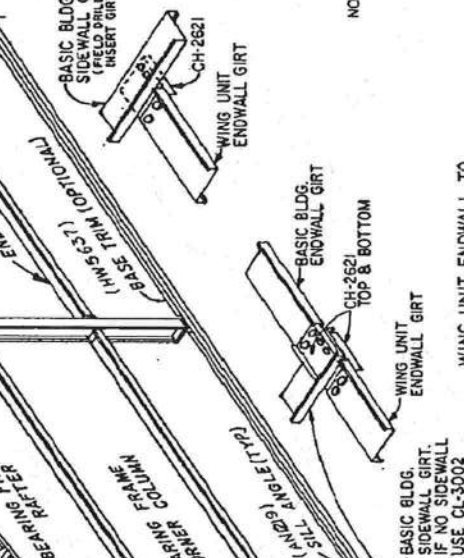


Insert Sidewall Girt to Insert Endwall Girt Framing — Bearing Frame Endwall

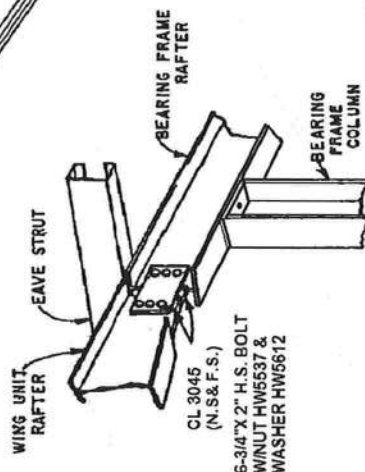


WING UNIT RAFTER TO WING UNIT.
RAFTER CONNECTION DETAILS

NOTE: WING UNIT BUILDINGS MAY HAVE EITHER BYPASS OR INSERT GRTS. DEPENDING ON SPAN.

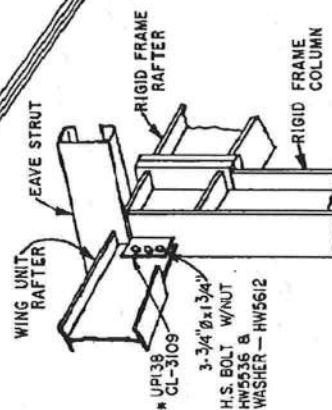


WING UNIT ENDWALL TO
BASIC BLDG. CONNECTIONS



WING UNIT RAFTER CONNECTION
TO SM,LR, or LM BEARING FRAME
RAFTER

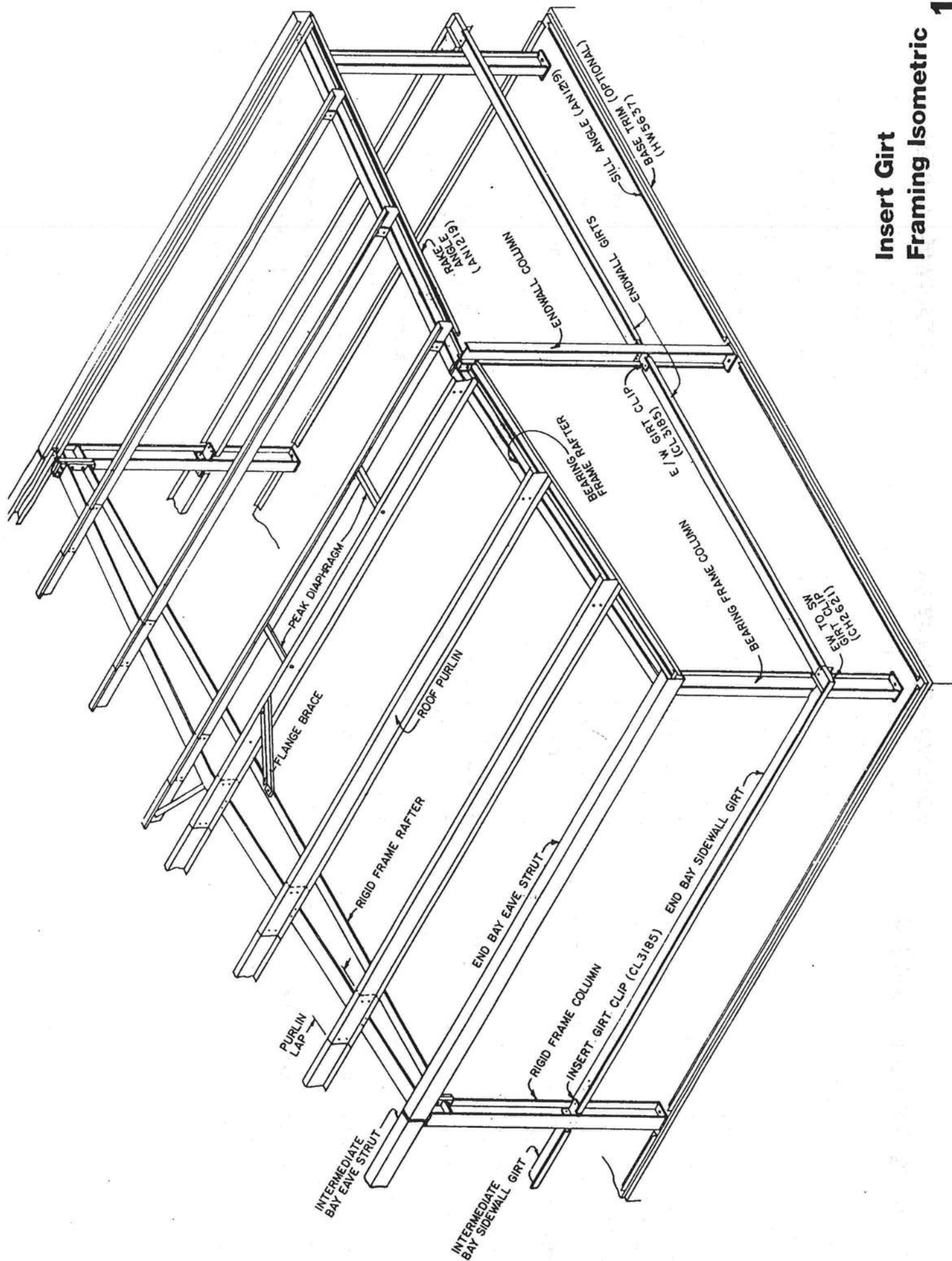
* NOTE: BUILDING ORDERED WITH WING UNIT WILL HAVE THIS CLIP FACTORY LOCATED; WING UNIT ADDED TO EXISTING BUILDING WILL REQUIRE FIELD LOCATION OF THESE CLIPS



WING UNIT RAFTER CONNECTION TO EXISTING SM RIGID FRAME COLUMN

(CONNECTION ALSO USED
ON INSERT ENDWALL COL.)

Wing Unit Framing Isometric 3



Insert Girt Framing Isometric

INTRODUCTION

This Construction Details booklet contains typical details of framing members, sheeting, trim, and accessories common to most Dean buildings. Using this booklet in conjunction with the blueprints and shipping list prepared for a specific building will permit an experienced steel erector to erect any building in a timely manner that is both structurally sound and pleasing to look at.

This booklet is divided into three (3) parts as follows:

1. Structural Framing Details
2. Sheeting and Flashing Details
3. Accessory Details

Additionally, each part is subdivided into many parts that show construction details for the various types of buildings fabricated by Dean Steel Buildings, Inc. Please note that many details presented in this booklet may not be relevant to the building type you are erecting. The first thing that you must do is identify from the purchase order what building type you are attempting to erect, as well as what sheeting profile is being furnished with the building. Once you have established that information, follow the details relating to accessories actually listed on the purchase order.

This "Standard Construction Details" is a supplement to the erection drawings for the job. Refer to this booklet when detail cannot be found on the erection drawings.

NOTE: For ProSeam panel sheeting and trim details, see separate booklet.

