

Garco Building Systems

ERECTION DRAWINGS

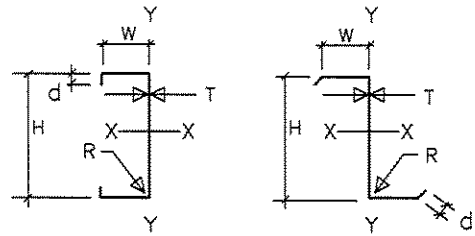
ASTM DESIGNATION

HOT ROLLED MILL SHAPES	A36 MIN.	Fy = 36 KSI MIN.
STRUCTURAL STEEL PLATE	A-572, A-1011, A-529	Fy = 55 KSI Gr 55 MIN.
COLD FORMED, LIGHT GAGE SHAPES	A-653 OR EQUAL	Fy = 55 KSI
BRACE RODS	A36	Fy = 36 KSI
ROOF AND WALL PANEL	A-653 OR A-792	Fy = 50 KSI
BOLT, 5/8" AND LARGER	A-325	
BOLT, 1/2" ONLY	A-449	

SECONDARY FRAMING MEMBER PROPERTIES

Framing Members (C's & Z's)

Engineering Properties
FOR ALL SECTIONS: Fy = 55 K/in.² E = 29,500 K/in.²



CEE PROPERTIES									
Section	T (in)	W (in)	H (in)	d (in)	R (in)	Area (in ²)	Wt. (lb/ft)	Ix EFF. (in ⁴)	Iy (in ⁴)
8C059	0.059	2.500	8	0.94	0.2500	0.852	2.50	7.5023	1.8205
8C070	0.070	2.500	8	1.00	0.1875	1.011	3.44	9.1183	2.2359
8C105	0.105	2.500	8	1.00	0.1875	1.509	5.14	14.1020	3.5254
10C070	0.070	2.500	10	1.13	0.1875	1.151	3.92	15.7870	3.0770
10C105	0.105	2.500	10	1.10	0.1875	1.719	5.85	24.0420	4.8083
12C070	0.070	3.500	12	1.13	0.1875	1.391	4.73	26.5570	4.0129
12C105	0.105	3.375	12	1.00	0.1875	2.087	7.10	41.4190	6.7043

ZEE PROPERTIES									
Section	T (in)	W (in)	H (in)	d (in)	R (in)	Area (in ²)	Wt. (lb/ft)	Ix EFF. (in ⁴)	Iy (in ⁴)
8Z059	0.059	2.500	8	1.05	0.3125	0.852	2.50	7.8288	1.8916
8Z070	0.070	2.500	8	0.99	0.3125	1.011	3.44	9.4068	2.3094
8Z105	0.105	2.500	8	0.76	0.3125	1.509	5.14	13.6770	3.4129
10Z070	0.070	2.500	10	0.99	0.3125	1.151	3.92	15.9880	3.1443
10Z105	0.105	2.500	10	0.76	0.3125	1.719	5.85	23.2890	4.6488
12Z070	0.070	3.500	12	0.75	0.3125	1.391	4.73	23.4120	3.3610
12Z105	0.105	3.500	12	0.75	0.2190	2.087	7.10	39.8020	6.2517

A0030 GEN. II Z_AND_CEE_PROPERTIES_GEN_II.dwg (CREATED 01/22/05) (DBD/GWM)

Purlin Allowable Loads (in Pounds per Lineal Foot) (P.L.F.)
(for girts use .5, .65 or .7 reduction factors) (SEE BELOW)

Condition	Span	Max. Bending Load (Lb./Ft.)						Deflection at Max. Bending Load (as a ratio of the Span L)					
		82059	82070	82105	102070	102105	122070	82059	82070	82105	102070	102105	122070
SIMPLE SPAN	16'	162.2	198.0	292.6	269.6	398.7	288.2	1/188	1/185	1/183	1/232	1/228	1/317
	20'	130.8	126.7	187.2	172.5	255.2	184.4	1/151	1/148	1/146	1/185	1/182	1/254
	24'	72.1	87.9	130.0	119.8	177.2	128.0	1/126	1/124	1/122	1/154	1/152	1/211
	25'	66.4	81.0	119.8	110.4	163.3	118.0	1/121	1/119	1/117	1/148	1/146	1/203
	28'	52.9	64.6	95.5	88.0	130.1	94.0	1/108	1/106	1/104	1/132	1/130	1/181
	30'	46.1	56.2	83.2	76.6	113.4	81.9	1/101	1/99	1/97	1/124	1/122	1/169
TWO SPAN	16'	264.5	346.6	551.1	398.7	709.0	378.7	1/432	1/396	1/362	1/498	1/490	1/676
	20'	167.7	227.4	352.3	271.1	457.0	264.7	1/290	1/272	1/242	1/355	1/335	1/492
	24'	109.7	144.6	231.1	196.3	319.8	185.5	1/277	1/252	1/229	1/324	1/290	1/502
	25'	99.7	130.6	207.1	182.7	285.0	170.7	1/267	1/245	1/224	1/305	1/275	1/479
	28'	76.9	99.0	147.5	141.1	237.0	134.3	1/240	1/224	1/219	1/275	1/238	1/422
	30'	65.3	82.6	118.5	119.9	203.4	115.9	1/226	1/215	1/218	1/259	1/222	1/392
MULTIPLE SPAN (4 BAY)	32'				103.1	182.6	100.9				1/245	1/226	1/367
	34'				89.5	131.4	88.5				1/233	1/231	1/345
	36'				76.1	106.8	78.1				1/228	1/237	1/328
	38'												1/259
	40'						119.1						
	42'												

REDUCTION FACTORS FOR GIRTS	
Simple Span 8"	= 0.65
Simple Span 10"	= 0.50
Lapped Span 8" or 10"	= 0.70

Standard purlin laps are as follows:			
PURLIN SIZE	FIRST INTERIOR FRAME	ALL OTHER INTERIOR FRAMES	
8"	5'-4"	3'-4"	
10" & 12"	7'-4"	4'-8"	

NOTES:

- All values are total loads, including dead, live, and self weight.
- Loads may be increased by a factor of:
1.007 for a 1:12 Roof Slope
1.028 for a 2:12 Roof Slope
1.111 for a 4:12 Roof Slope
- The Two Span and Multiple Span portion of the table assumes a setback of the end frame decreasing the nominal bay length for the end bay by one foot.

"Garco has made every effort to use accurate product descriptions and specifications at the time of this printing. However, because of continuing product improvement and code changes, all specifications and descriptions are subject to change without prior notice."

GENERAL NOTES

1. MANUFACTURING PLANT CERTIFICATIONS

GARCO BUILDING SYSTEMS IS AN APPROVED STRUCTURAL STEEL MANUFACTURING PLANT CERTIFIED BY THE FOLLOWING:

- AISC CERTIFICATION CATEGORY MB
- CANADIAN WELDING BUREAU
- IAS APPROVED FABRICATOR REPORT #FA-316

2. A-325 BOLT TIGHTENING REQUIREMENTS

THE TIGHTENING AND INSPECTION REQUIREMENTS FOR A-325 BOLTS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS" AS INCLUDED IN PART 5 OF THE LATEST EDITION OF THE "AISC MANUAL OF STEEL CONSTRUCTION". ALL 5/8 INCH DIAMETER AND LARGER A-325 BOLTS REQUIRE FULL PRETENSIONING.

THE THREE MOST COMMON METHODS OF TIGHTENING WHEN FULL PRETENSIONING IS REQUIRED ARE :

- TURN-OF-NUT TIGHTENING.
- CALIBRATED WRENCH TIGHTENING.
(A HARDENED WASHER IS REQUIRED UNDER THE ELEMENT OF THE BOLT BEING TURNED).
- DIRECT TENSION INDICATOR TIGHTENING THROUGH USE OF SPECIAL WASHERS OR BOLTS.
(NOTE: HARDENED WASHERS AND DIRECT TENSION INDICATING DEVICES ARE ONLY PROVIDED BY MANUFACTURER UPON REQUEST).

SYSTEMATIC SNUGGING OF ALL BOLTED JOINT CONNECTIONS IS A NECESSARY AND IMPORTANT FIRST STEP IN TIGHTENING BOLTS THAT ARE REQUIRED TO BE FULLY PRETENSIONED. THE MOST CRITICAL ASPECT OF SNUGGING IS THAT THERE BE NO GAPS REMAINING BETWEEN THE LAYERS OF STEEL WHERE THE BOLTS PENETRATE. CODE REQUIRES THAT THERE MUST BE 1" MINIMUM STEEL CONTACT AROUND THE BOLT HOLE BUT NOT LESS THAN THE BOLT DIAMETER. IT IS NOT REQUIRED THAT THE REMAINING STEEL SURFACE BE IN CONTACT.

GENERAL PRODUCT SPECIFICATIONS

1. PRIMARY STRUCTURAL FRAMING

- ALL PRIMARY STRUCTURAL FRAMING MEMBERS ARE TO BE AUTOMATIC SUBMERGED ARC WELDED BUILT-UP WIDE FLANGE SECTIONS. MISCELLANEOUS WELDS ARE TO BE MADE BY GAS METAL-ARC PROCESS WITH ARGON SHIELDING. ELECTRODES USED IN SHOP OR FIELD WELDING CONDITIONS SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI. ALL WELDING IS TO BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY AND CANADIAN WELDING BUREAU REQUIREMENTS BY WELDERS CERTIFIED IN ACCORDANCE WITH C.W.B., C.S.A. STANDARD W47.1 (FUSION WELDING OF STEEL STRUCTURES) AND AWS D1.1. MINIMUM WEB THICKNESS IS TO BE 0.1345" AND MINIMUM FLANGE THICKNESS IS TO BE 3/16".
- ALL PRIMARY CONNECTIONS ARE BOLTED WITH 5/8" MINIMUM DIAMETER HEAT-TREATED ASTM A-325N BOLTS WITH NUTS.
- WIND BRACING TO BE BY A POSITIVE "X" SYSTEM UTILIZING TENSION MEMBERS ONLY OF 7 STRAND EHS CABLE WITH GUARANTEED PROOF LOAD CONFORMING TO ASTM A-475, OR BY RODS OF MINIMUM ASTM A-36 GRADE STEEL, UNLESS NOTED OTHERWISE.

2. SECONDARY STRUCTURAL FRAMING

- ALL LIGHT-GAGE COLD-FORMED SECTIONS TO BE PRIME PAINTED OR GALVANIZED STEEL WITH A MINIMUM THICKNESS OF 17 GAGE (NOMINAL .058). GALVANIZING TO BE MINIMUM COMMERCIAL QUALITY G-90 COATING PER ASTM A-653 SPECS.
- PURLIN AND GIRT MEMBERS TO BE 8", 10", OR 12" ZEE SHAPES. CEE SECTIONS ARE TO BE USED FOR OPENING FRAMING OR ALTERNATE GIRTS. SECTION PROPERTIES OF ZEE AND CEE MEMBERS TO BE AS SHOWN IN CHART ON THIS PAGE.
- ALL SECONDARY FRAMING CONNECTIONS ARE TO BE BOLTED WITH 1/2" ASTM A-449 (S.A.E. GRADE 5) HEAT-TREATED BOLTS, TIGHTENED TO A "SNUG TIGHT" CONDITION. MISCELLANEOUS STEEL CONNECTIONS MAY BE MADE WITH ASTM A-307 BOLTS OR WITH SCREWS AS REQUIRED.

3. PANEL COATINGS

- COLOR COATING OF EXPOSED ROOFING AND SIDING SHALL BE POLYCERAM 3200 THERMOSET POLYESTER MELAMINE SYSTEM OR FLUOROCERAM KYNAR 500/ HYLAR 5000 SYSTEM, APPLIED AT 0.8 MILS NOMINAL DRY FILM THICKNESS OVER 0.2 MILS NOMINAL DRY FILM THICKNESS OF EPOXY TYPE PRIMER OVER G-90 GALVANIZED OR GALVALUME/ZINCALUME SHEET.
- THE INTERIOR SURFACE OF COLORED ROOFING AND SIDING SHALL BE 0.15 MILS EPOXY PRIMER AND 0.35 MILS UNIVERSAL OFF-WHITE POLYESTER COATING APPLIED OVER G-90 GALVANIZED OR AZ-55 ALUMINUM/ZINC SHEET.

4. PRIMARY STRUCTURAL PAINT W/ (SP-2 OR SP-3 PREP)

- GARCO'S STANDARD MINIMUM 1.0 MIL THICKNESS RUST INHIBITIVE PRIMER WILL BE APPLIED TO ALL STRUCTURAL STEEL. (THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.) AN OPTIONAL "SPECIAL PAINT" MAY BE FURNISHED AS FOLLOWS:

DESIGN PARAMETERS

01/05/06

GARCO BUILDING SYSTEMS DESIGN CERTIFICATION

Garco Building Systems is an "AISC" certified manufacturer. This is to certify that the metal building system to be furnished shall be designed in accordance with the order documents and will meet or exceed the load requirements as specified below. This includes all primary and secondary framing members, roof and siding panels, and all accessories furnished. Design shall be in accordance with the "AISC" ninth edition "Manual of Steel Construction" and "AISI" (2001) "North American Specification for the Design of Cold-Formed Steel Structural Members". The Owner and/or Contractor are responsible for retaining a Professional Engineer if building components are altered, except as required to fit manufacturer's drawings. Standing Seam Roof By Either BHP, Inc., Tacoma, WA or MBCL, Inc., Salt Lake City, Utah.

ENGINEERING CALCULATIONS		
BUILDING CODE 97 UBC	JOB NUMBER: 29429 / 12-B-39215	DATE: 9-9-09
OCCUPANCY CATEGORY Standard	JOB NAME: Community Fellowship Church	DESIGNED BY: TAB
	JOB LOCATION: Bonners Ferry, ID	CHECKED BY:
	BUILDER: B.F. Builders Inc.	

DESIGN PARAMETERS	COMMENTS
FRAME TYPE: MBC2	Right endwall designed for future addition.
ROOF SLOPE: 6:12	Adjacent bay to be 18'-0" max.
BAY SIZE: 18'-0"	
NOMINAL WIDTH: 80'-0"	
LENGTH: 54'-0"	
EAVE HEIGHT: 12'-0"	

DESIGN LOADS	ENGINEER'S SEAL	
FRAME SELF WT.: INCLUDED		
ROOF DEAD LOAD: 2.5 psf		
COLLATERAL LOAD: 3.0 psf		
LIVE LOAD: 20 psf		
ROOF SNOW LOAD: 50 psf		
SEISMIC ZONE: 2B		
WIND SPEED: 70 MPH		
ENCLOSURE TYPE: Enclosed		
CRANE CAPACITY: N/A		
MAX. WHEEL LOAD: N/A		
MIN. WHEEL BASE: N/A		
SPECIAL LOADS:		
* SNOW EXPOSURE FACTOR HAS ALREADY BEEN APPLIED TO GROUND SNOW LOAD TO OBTAIN ROOF SNOW LOAD AS SHOWN		
** WIND EXPOSURE REQUIRES ON-SITE VERIFICATION BY BUILDER OR OWNER AND HAS NOT BEEN VERIFIED BY GARCO		

DRAWING REVISIONS:

FOR APPROVAL ONLY

GBS DENOTES GARCO BUILDING SYSTEMS

GEN. II

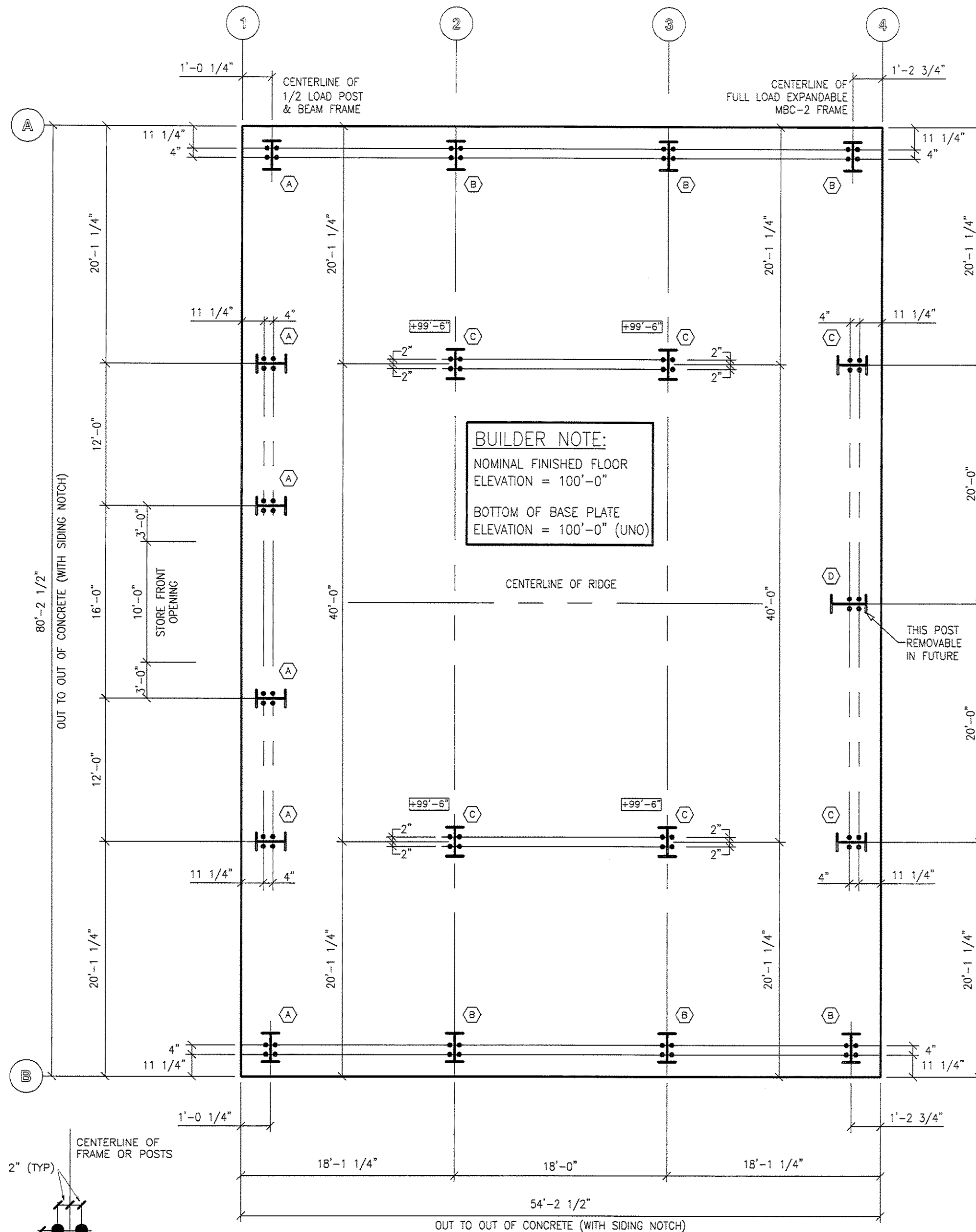
REVISIONS



Address: GARCO BUILDING SYSTEMS, INC. 2714 S. GARFIELD RD. AIRWAY HEIGHTS, WA 99001	Phone #: (509) 244-5611
Job Name: COMMUNITY FELLOWSHIP CHURCH	Fax #: (509) 244-2850
Builder: B.F. BUILDERS INC.	
Drawn By: CAH	Job Number: 29429 / 39215
Date: 09/17/09	Drw.: Of: 14 Sht.: 6-1
Checked By:	Dwg. Name: Coversheet

FINAL REVISION DATE :

01/05/06 (REVISED 02/06/05) (DBD)



DENOTES:
 3/4" Ø ANCHOR BOLTS
 W/ 3" PROJECTION.
 (BOLT, NUT AND WASHER NOT BY GBS)

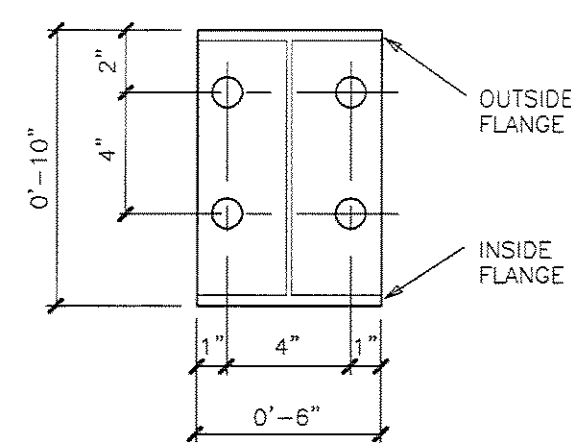
DENOTES:
 BASE PLATE SIZE AND LOCATIONS.
 SEE DETAILS ON THIS SHEET

BOLT SETTING PLAN

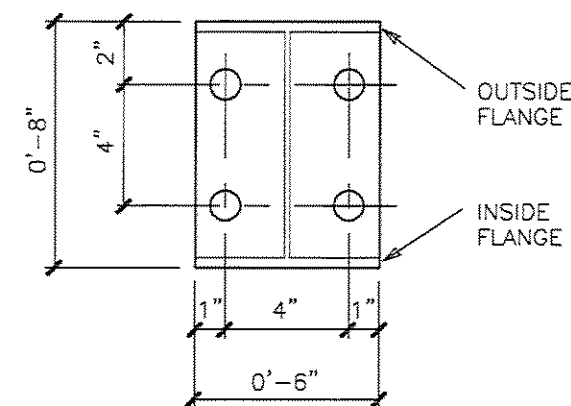
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*** BUILDER NOTE ***

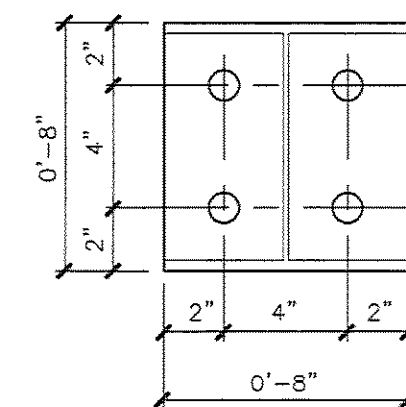
FOUNDATION, FOOTINGS, ANCHOR BOLT EMBEDMENT, THRUST ANGLE, PLATE WASHERS (IF NECESSARY), HAIRPIN OR TIES FOR THRUST AND ALL REINFORCING ARE TO BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER BASED ON CONCRETE STRENGTH AND SPECIFIC SOIL CONDITIONS OF THE BUILDING SITE.



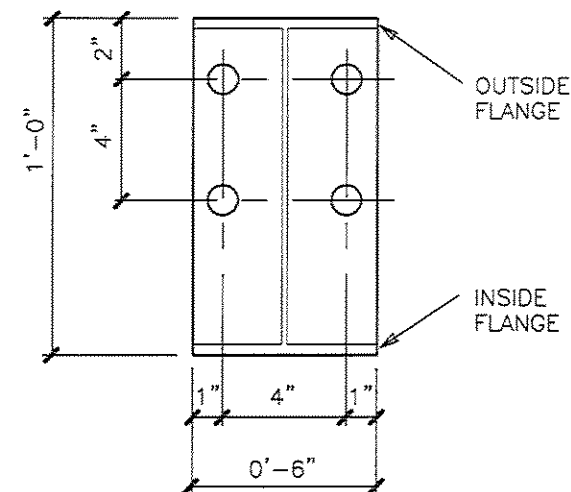
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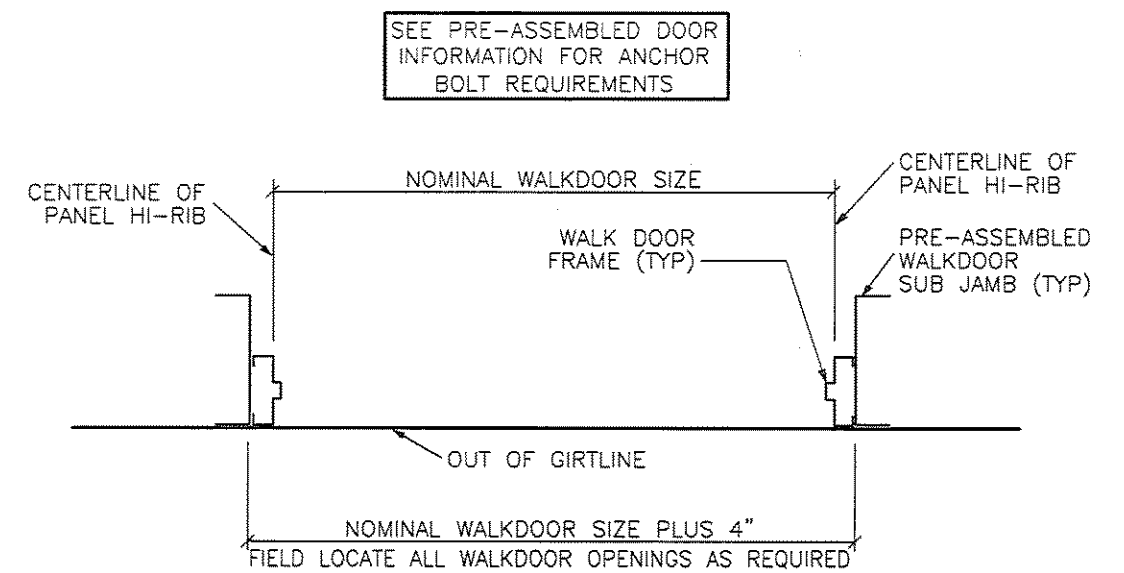
BASE PLATE



BASE PLATE



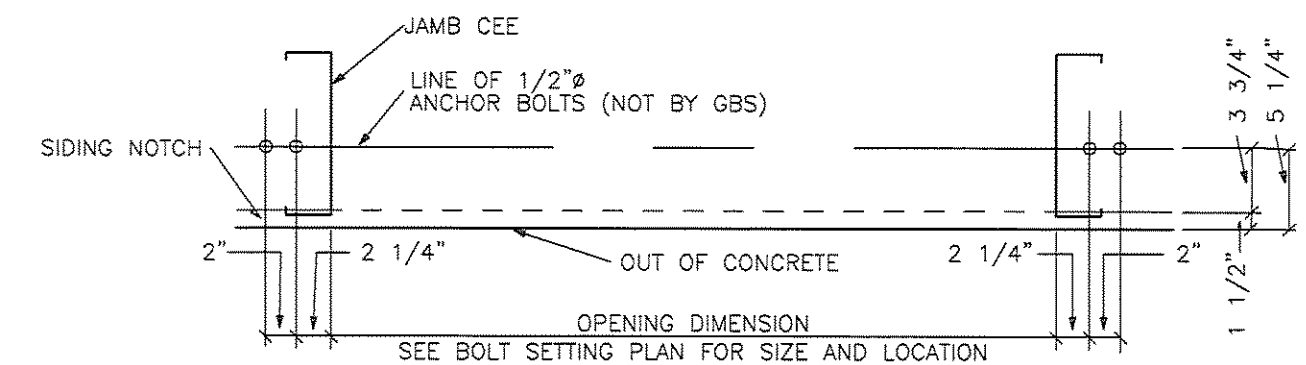
BASE PLATE



- NOTE:**
1. WHEN CONCRETE CURBS ARE REQUIRED, ALL WALKDOOR SUB JAMBS ARE TO STOP AT THE TOP OF THE CONCRETE CURB UNLESS OTHERWISE NOTED OR REQUESTED BY THE BUILDER.
 2. WHEN NOTCHING A CURB FOR THE OPENING, INCREASE THE WIDTH OF THE NOMINAL DOOR SIZE BY 4 1/2" TO ALLOW THE WALKDOOR FRAME TO EXTEND TO THE FLOOR SLAB.
 3. IT IS RECOMMENDED THAT THE LOCATION OF THE WALKDOOR FRAME LAND ON THE CENTERLINE OF THE PANEL HI-RIBS FOR MAXIMUM WEATHER-TIGHTNESS.

PRE-ASSEMBLED WALKDOOR BASE DETAIL

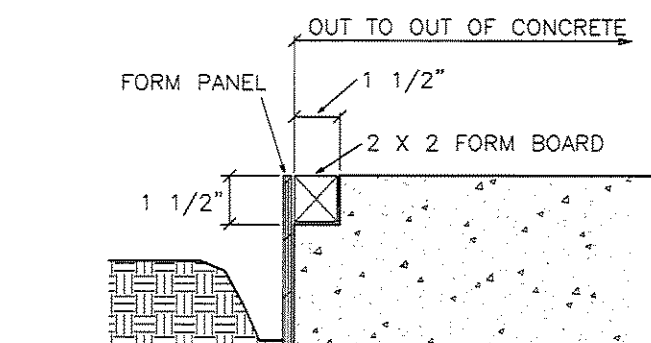
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NOTE:
 ALL JAMBS ARE TO EXTEND TO THE FINISHED FLOOR LINE UNLESS OTHERWISE NOTED OR REQUESTED BY THE BUILDER

JAMB ANCHOR BOLT PLAN WITH SIDING NOTCH

(FOR VERTICAL LIFT, CANNISTER, OR OVERHEAD DOOR OPENINGS, STOREFRONTS, SLIDE DOOR AND OTHER LARGE FRAMED OPENINGS)



SIDING NOTCH DETAIL

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SEE BOOKLET FOR FRAME REACTIONS

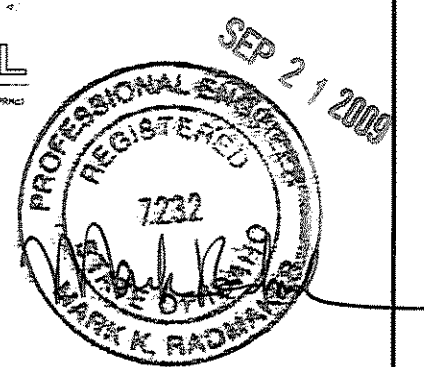
REVISIONS

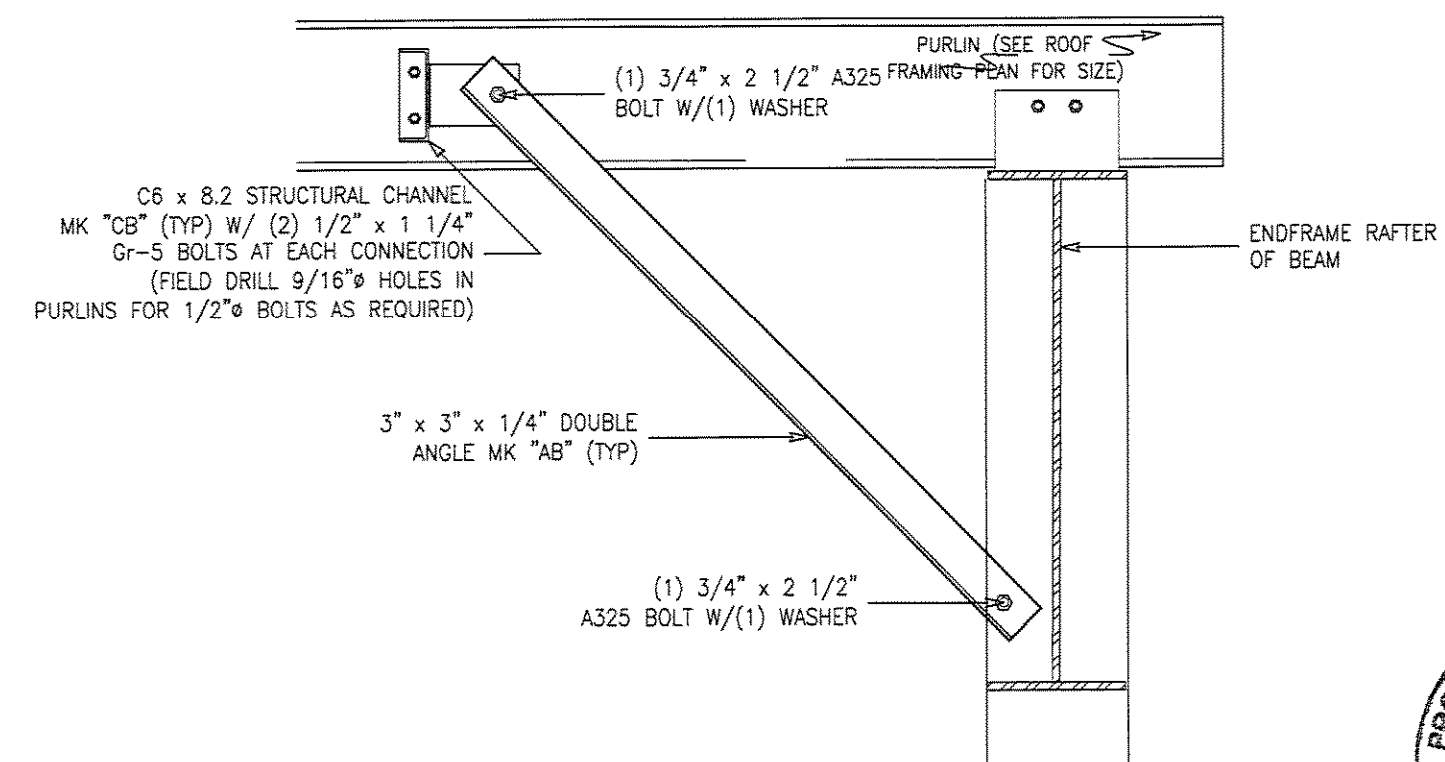
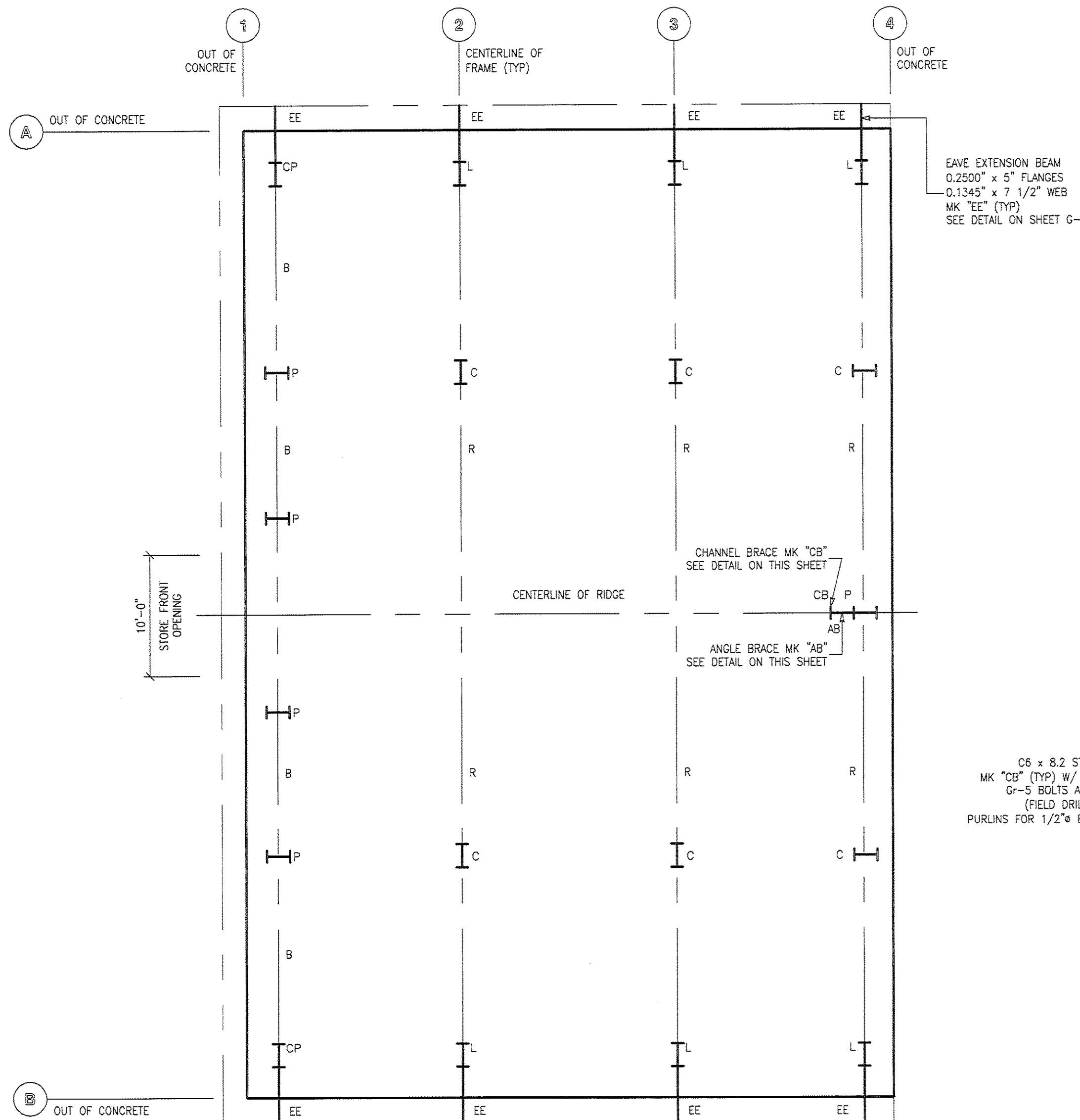
FINAL REVISION DATE : ...

Garco

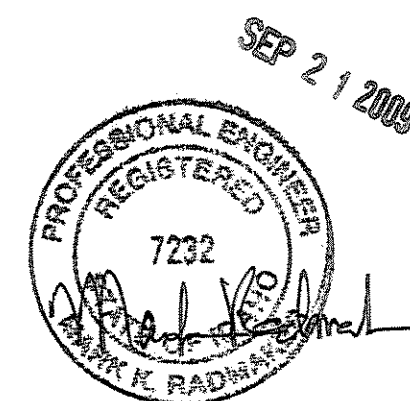
Building Systems
 Spokane Washington

Job Name : COMMUNITY FELLOWSHIP CHURCH
 Builder : B.F. BUILDERS INC.
 Drawn By : CAH
 Date : 09/16/09
 Checked By : MSM
 Job Number: 29429 / 39215
 Drw.: 2 Of: 14
 Sht.: 4-2
 Dwg. Name : PLANVIEW



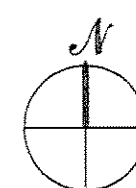


ANGLE BRACE DETAIL
AT RIDGE
NOT TO SCALE

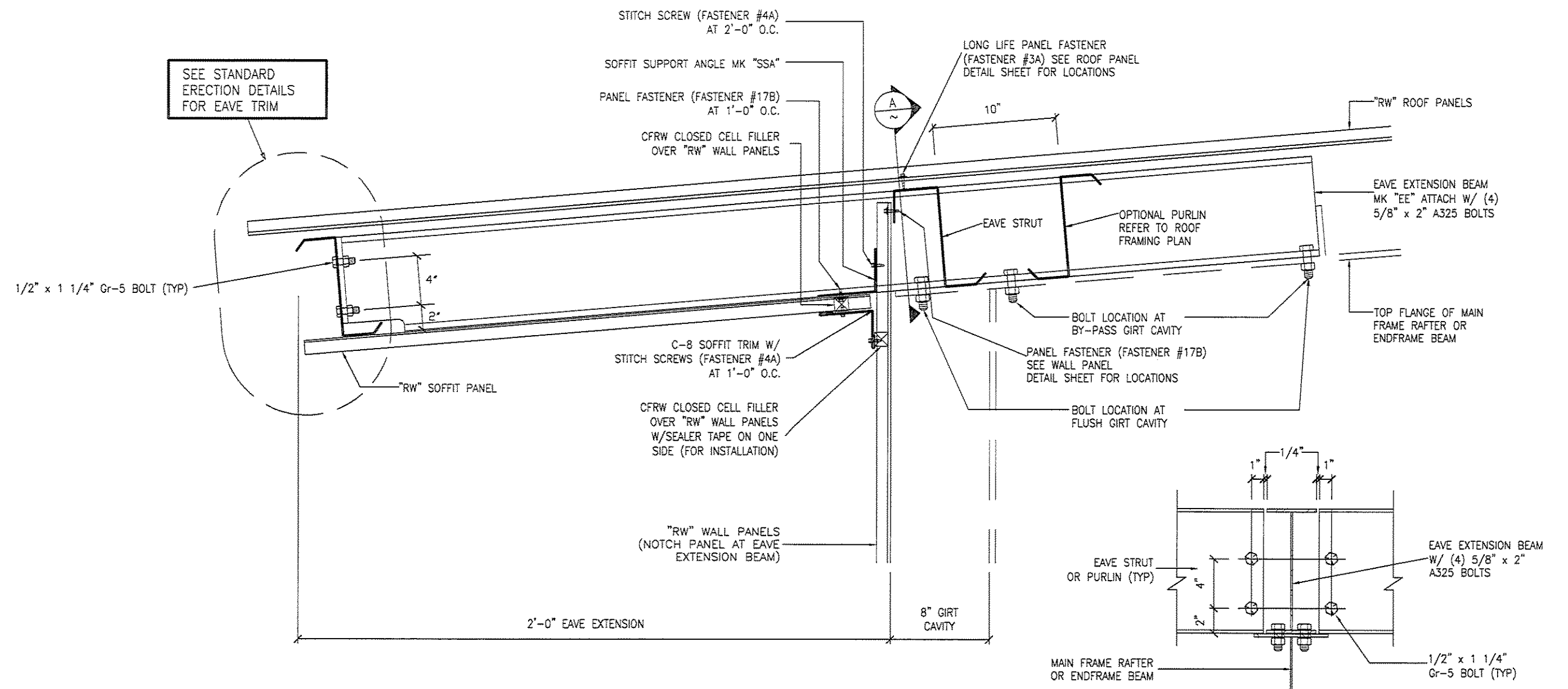


FOR APPROVAL ONLY

STRUCTURAL LAYOUT PLAN NOT TO SCALE



REVISIONS		Garco Building Systems		Spokane Washington
FINAL REVISION DATE : ...		Job Name : COMMUNITY FELLOWSHIP CHURCH		
		Builder : B.F. BUILDERS INC.		
		Drawn By : CAH		Job Number: 29429 / 39215
		Date : 09/16/09		Drw.: 3 Of: 14 Sht.: 4-3
		Checked By : ...		Dwg. Name : PLANVIEW



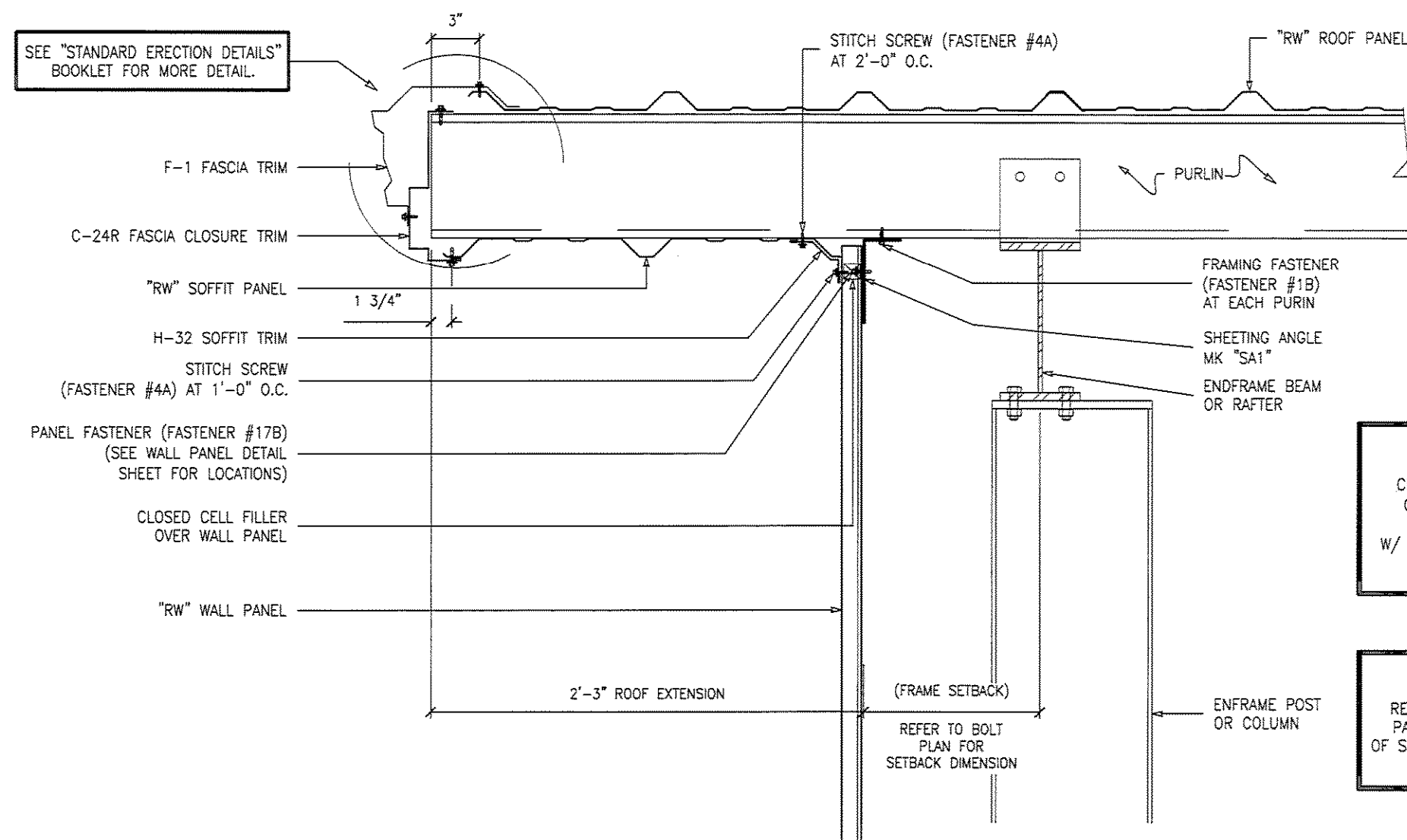
EAVE EXTENSION DETAIL WITH SOFFIT

NOT TO SCALE

SECTION "A"

NOT TO SCALE

EAVE EXTENSIONS/GENERAL EAVE EXTENSION WITH SOFFIT.dwg (CREATED 02/27/09) (DBD/PRM)



ROOF EXTENSION DETAIL (WITH "RW" SOFFIT PANEL)

NOT TO SCALE

ROOF EXTENSION/RW/ROOFEEXT RW SOFFIT RW.dwg (REVISED 02/27/09) (DBD)

CLOSED CELL FILLER
CFWW CLOSED CELL FILLER
OVER "RW" WALL PANELS
W/ SEALER TAPE ON ONE SIDE
(FOR INSTALLATION)

BUILDER NOTE:
REFER TO STANDARD DETAIL
PACKAGE FOR INSTALLATION
OF SECONDARY FRAMING, PANELS
AND TRIM.



FOR APPROVAL ONLY

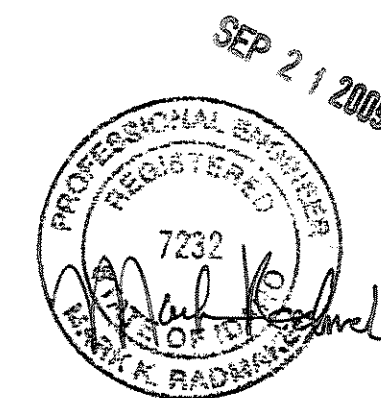
BUILDER NOTE: UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.																							
REVISIONS																							
<table border="1"> <tr> <td>Garco</td><td>Building Systems</td><td>Spokane Washington</td></tr> <tr> <td>Job Name :</td><td colspan="2">COMMUNITY FELLOWSHIP CHURCH</td></tr> <tr> <td>Builder :</td><td colspan="2">B.F. BUILDERS INC.</td></tr> <tr> <td>Drawn By :</td><td>CAH</td><td>Job Number: 29429</td></tr> <tr> <td>Date :</td><td>09/16/09</td><td>Drw.: 5 Of: 14 Sht.: 4-5</td></tr> <tr> <td>Checked By :</td><td colspan="2">...</td></tr> <tr> <td></td><td>Dwg. Name :</td><td>EXT DTL</td></tr> </table>			Garco	Building Systems	Spokane Washington	Job Name :	COMMUNITY FELLOWSHIP CHURCH		Builder :	B.F. BUILDERS INC.		Drawn By :	CAH	Job Number: 29429	Date :	09/16/09	Drw.: 5 Of: 14 Sht.: 4-5	Checked By :	...			Dwg. Name :	EXT DTL
Garco	Building Systems	Spokane Washington																					
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Checked By :	...																						
	Dwg. Name :	EXT DTL																					
FINAL REVISION DATE : ...																							

EXTENSION DETAILS

NOT TO SCALE

E:\Details\EAVE EXTENSION\BORDER_EAVEEXT.dwg (CREATED 01/20/05) (JMG)

B OUT OF CONCRETE



NOT TO SCALE

FOR APPROVAL ONLY

BUILDER NOTE:
UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.

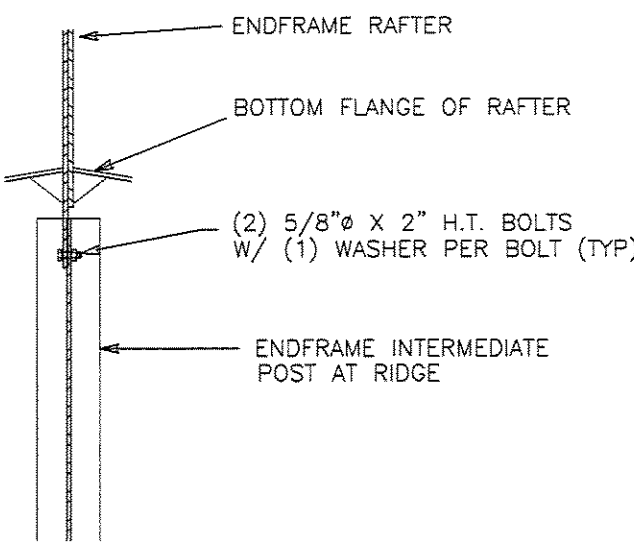
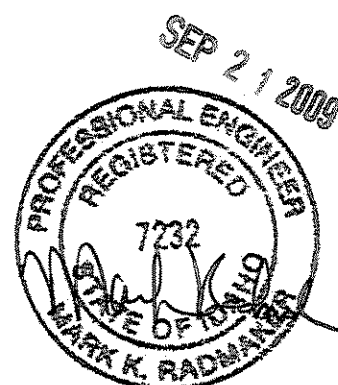
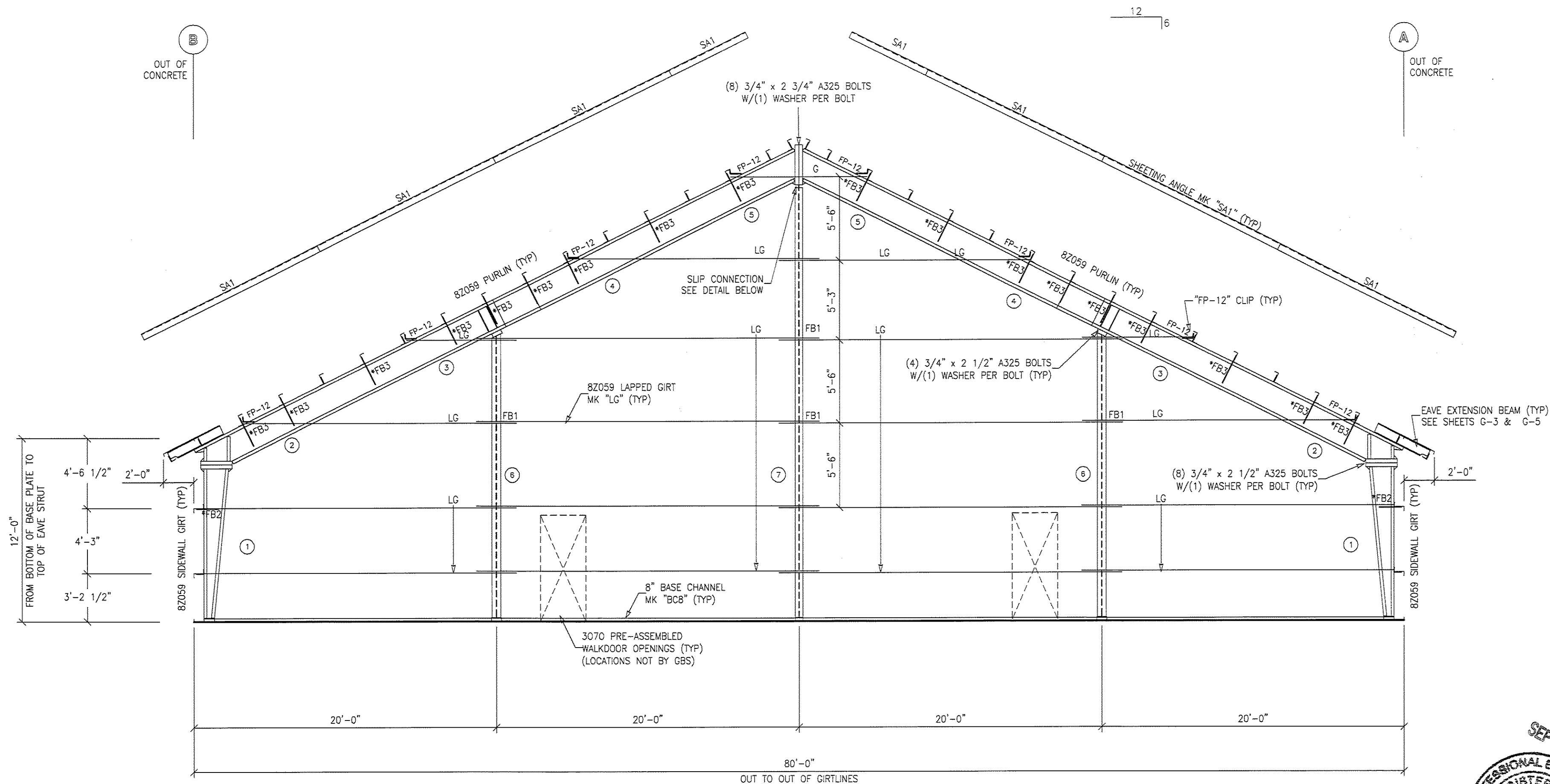
* DENOTES: FLANGE BRACES ON ONE SIDE OF FRAME. ** DENOTES: FLANGE BRACES ON BOTH SIDES OF FRAME.

USE 1/2" x 1 1/4" Gr-5 BOLTS AT FLANGE BRACES (USE 1/2" x 1 1/2" Gr-5 BOLTS AT FLANGE BRACES MK "FB-11" OR LARGER) TO WEB.

REVISIONS FINAL REVISION DATE : ...	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">TYPE : RF</td> <td style="width: 33%;">SLOPE : 6 : 12</td> <td style="width: 33%;">SEISMIC LOAD : 2,733</td> </tr> <tr> <td>EAWE : 12,000</td> <td>SPAN : 30,300</td> <td>DEAD LOAD : 7,500</td> </tr> <tr> <td>SPACE :</td> <td>19,490</td> <td>COLLATERAL LOAD : 3,000</td> </tr> <tr> <td></td> <td></td> <td>LIVE LOAD : 20,000</td> </tr> </table>	TYPE : RF	SLOPE : 6 : 12	SEISMIC LOAD : 2,733	EAWE : 12,000	SPAN : 30,300	DEAD LOAD : 7,500	SPACE :	19,490	COLLATERAL LOAD : 3,000			LIVE LOAD : 20,000	 Opbinate Washington <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Job Name : COMMUNITY FELLOWSHIP CHURCH</td> <td style="width: 50%;"></td> </tr> <tr> <td>Builder : B.F. BUILDERS INC.</td> <td></td> </tr> <tr> <td>Drawn By : CAH</td> <td>Job Number: 29429 / 39215</td> </tr> <tr> <td>Date : 09/17/09</td> <td>Dwg.: Of: 14 Sht.: 6-7</td> </tr> <tr> <td>Checked By :</td> <td>Dwg. Name : CS2&3</td> </tr> </table>	Job Name : COMMUNITY FELLOWSHIP CHURCH		Builder : B.F. BUILDERS INC.		Drawn By : CAH	Job Number: 29429 / 39215	Date : 09/17/09	Dwg.: Of: 14 Sht.: 6-7	Checked By :	Dwg. Name : CS2&3
TYPE : RF	SLOPE : 6 : 12	SEISMIC LOAD : 2,733																						
EAWE : 12,000	SPAN : 30,300	DEAD LOAD : 7,500																						
SPACE :	19,490	COLLATERAL LOAD : 3,000																						
		LIVE LOAD : 20,000																						
Job Name : COMMUNITY FELLOWSHIP CHURCH																								
Builder : B.F. BUILDERS INC.																								
Drawn By : CAH	Job Number: 29429 / 39215																							
Date : 09/17/09	Dwg.: Of: 14 Sht.: 6-7																							
Checked By :	Dwg. Name : CS2&3																							

Building Systems Spokane
Systems Washington

Job Name :	COMMUNITY FELLOWSHIP CHURCH		
Builder :	B.F. BUILDERS INC.		
Drawn By :	CAH	Job Number:	29429 / 39215
Date :	09/17/09	Drw.: 7 Of: 14	Sht.: 6-7
Checked By :		Dwg. Name :	CS283



END WALL FRAMING AT GRIDLINE "4"

NOT TO SCALE

FOR APPROVAL ONLY

BUILDER NOTE:
UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS).

BUILDER NOTES:
* DENOTES: FLANGE BRACES ON ONE SIDE OF FRAME. ** DENOTES: FLANGE BRACES ON BOTH SIDES OF FRAME.
USE 1/2" x 1 1/4" Gr-5 BOLTS AT FLANGE BRACES (USE 1/2" x 1 1/2" Gr-5 BOLTS AT FLANGE BRACES MK "AFB-11" OR LARGER) TO WEB.

ASE\ACOR\14\BLOCKS\FRAME\ENDWALL.DWG (REVISED 05/31/06) (GBO/MWR)

BUILDER NOTE
THE TIGHTENING AND INSPECTION REQUIREMENTS FOR A-325 BOLTS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS" AS INCLUDED IN PART 8 OF THE LATEST EDITION OF THE "AISC MANUAL OF STEEL CONSTRUCTION". ALL 5/8" INCH DIAMETER AND LARGER A-325 BOLTS REQUIRE FULL PRETIGHTENING. THE THREE MOST COMMON METHODS OF TIGHTENING WHEN FULL PRETIGHTENING IS REQUIRED ARE:
a) CALIBRATED WRENCH TIGHTENING
b) TURN-OF-NUT TIGHTENING
c) TENSILE INDICATOR TIGHTENING THROUGH USE OF SPECIAL WASHERS OR BOLTS (NOTE: WASHERS AND BOLTS MUST BE USED TOGETHER. WASHERS ARE ONLY PROVIDED BY MANUFACTURER UPON REQUEST.)
SYSTEMATIC SLAGGING OF ALL BOLTED JOINT CONNECTIONS IS A NECESSARY AND IMPORTANT FIRST STEP IN TIGHTENING BOLTS THAT ARE REQUIRED TO BE FULLY PRETIGHTENED. THE MOST CRITICAL ASPECT OF SLAGGING IS THAT THERE BE NO GAPS FORMING BETWEEN THE LAYERS OF STEEL WHERE THE BOLTS IMPACT. JOINTS REQUIRED THAT THERE MUST BE 1" MINIMUM STEEL CONTACT AROUND THE BOLT HOLE BUT NOT LESS THAN THE BOLT DIAMETER. IT IS NOT REQUIRED THAT THE REMAINING STEEL SURFACE BE IN CONTACT.

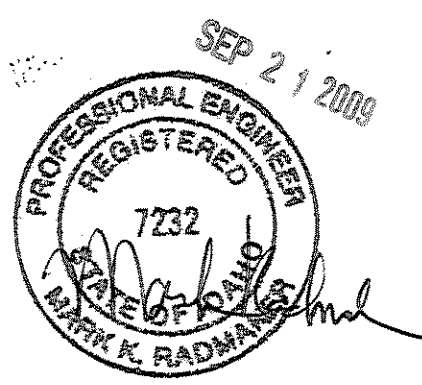
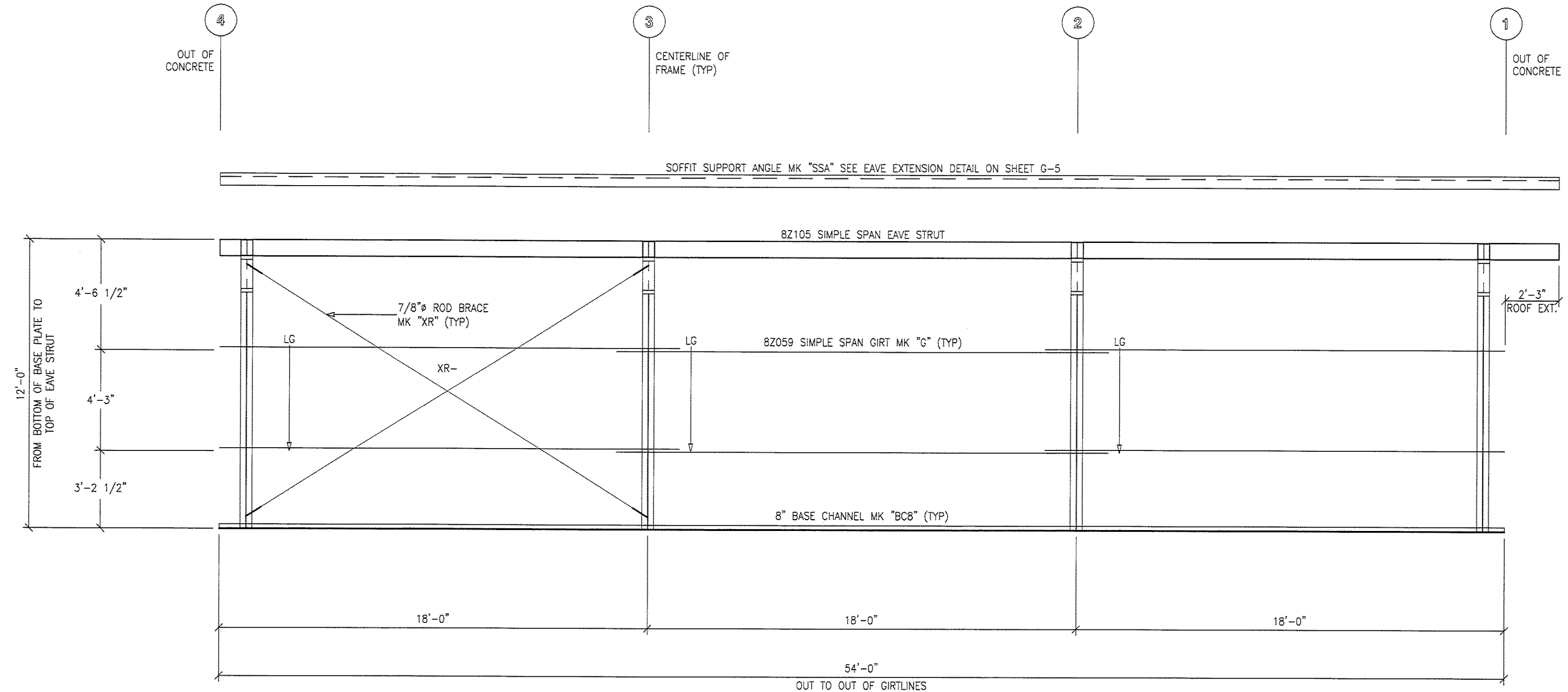
MEM. TYP.	OUTER FLG. WIDTH	OUTER FLG. THICK.	INNER FLG. WIDTH	INNER FLG. THICK.	WEB THICK.	INITIAL TOTAL DEPTH	FINAL TOTAL DEPTH	MEMB. NODE LENGTH (ft)	MEM. TYP.	OUTER FLG. WIDTH	OUTER FLG. THICK.	INNER FLG. WIDTH	INNER FLG. THICK.	WEB THICK.	INITIAL TOTAL DEPTH	FINAL TOTAL DEPTH	MEMB. NODE LENGTH (ft)
1	8.000	0.1875	6.000	0.1875	0.1345	8.0000	20.0000	10.2815	1	8.000	0.1875	6.000	0.1875	0.1345	8.0000	20.0000	10.2815
2	5.000	0.2500	5.000	0.2500	0.1875	24.0000	24.0000	14.4576	2	5.000	0.2500	5.000	0.2500	0.1875	24.0000	24.0000	14.4576
3	6.000	0.2500	6.000	0.2500	0.2500	24.0000	24.0000	6.9031	3	6.000	0.2500	6.000	0.2500	0.2500	24.0000	24.0000	6.9031
4	6.000	0.2500	6.000	0.2500	0.2500	24.0000	24.0000	3.6393	4	6.000	0.2500	6.000	0.2500	0.2500	24.0000	24.0000	3.6393
5	5.000	0.2500	5.000	0.2500	0.1875	24.0000	24.0000	18.9760	5	5.000	0.2500	5.000	0.2500	0.1875	24.0000	24.0000	18.9760
6	7.000	0.2500	7.000	0.2500	0.1345	8.0000	8.0000	18.8519	6	7.000	0.2500	7.000	0.2500	0.1345	8.0000	8.0000	18.8519
7	6.000	0.1875	6.000	0.1875	0.1345	12.0000	12.0000		7	6.000	0.1875	6.000	0.1875	0.1345	12.0000	12.0000	

REVISIONS

TYPE	RF	SLOPE	6 : 12	SEISMIC LOAD	2.733	WIND LOAD	14.452
EAVE	12.000	SPAN	80.000	DEAD LOAD	2.500	SNOW LOAD	50.000
BAY SPACE	9.458	COLLATERAL LOAD	3.000	LIVE LOAD	20.000		

Garco Building Systems Spokane Washington

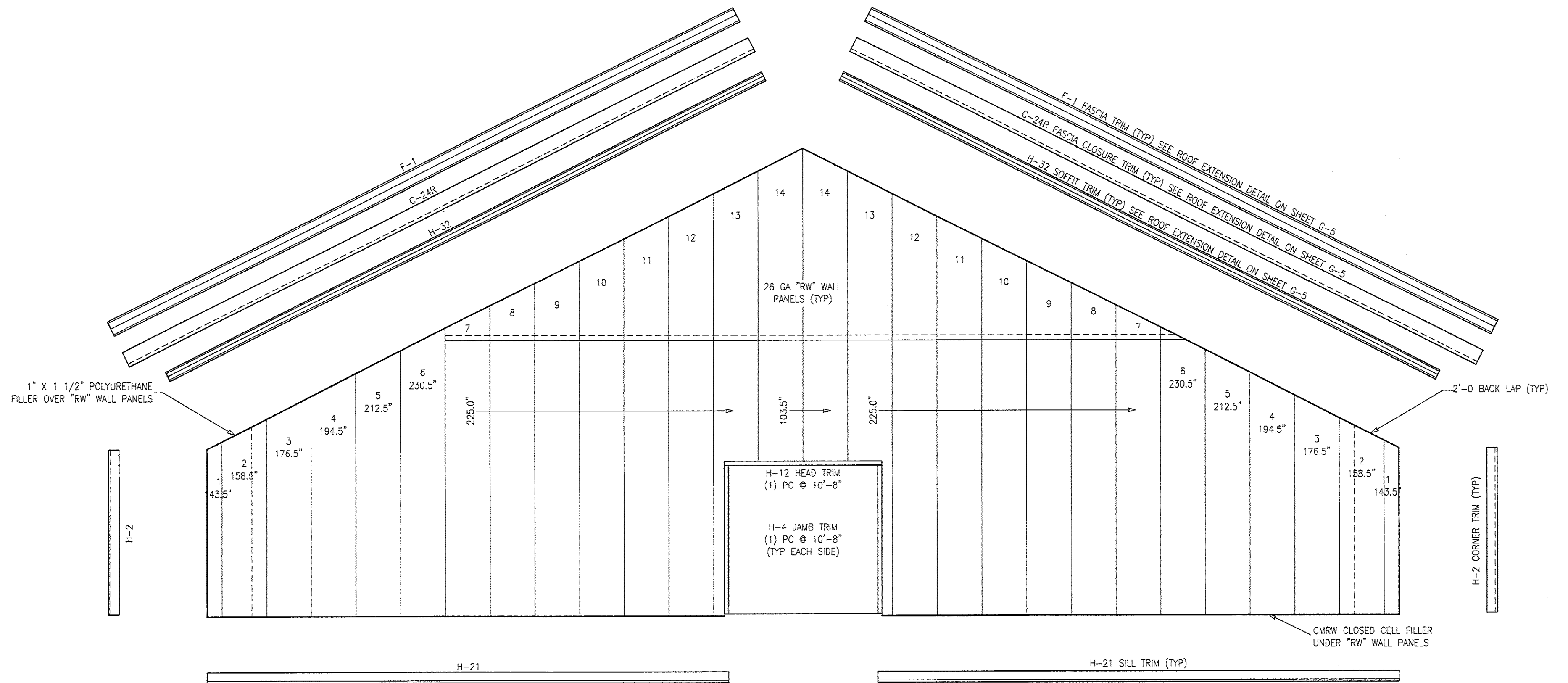
Job Name : COMMUNITY FELLOWSHIP CHURCH
 Builder : B.F. BUILDERS INC.
 Drawn By : CAH Job Number: 29429 / 38215
 Date : 09/17/09 Drw.: 8 Of: 14 Sht.: 4-8
 Checked By : Dwg. Name : EW 4



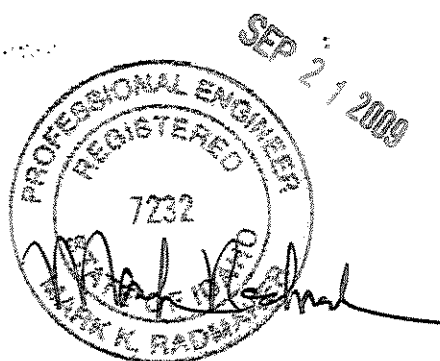
FOR APPROVAL ONLY

SIDEWALL FRAMING AT GRIDLINES
 "A" (THUS) & "B" (O.H.)
 NOT TO SCALE

BUILDER NOTE: UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.	
REVISIONS	Garco Building Systems Spokane Washington
Job Name : COMMUNITY FELLOWSHIP CHURCH	
Builder : B.F. BUILDERS INC.	
Drawn By : CAH	Job Number: 29429 / 59215
Date : 09/17/09	Drw.: 9 Of: 14 Sht.: G-9
Checked By :	Dwg. Name : SWA & B
FINAL REVISION DATE :	

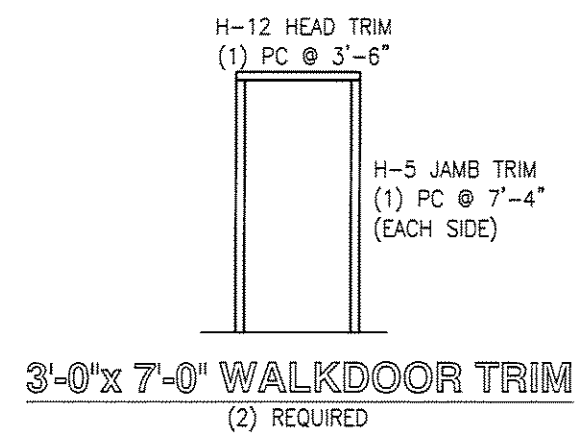
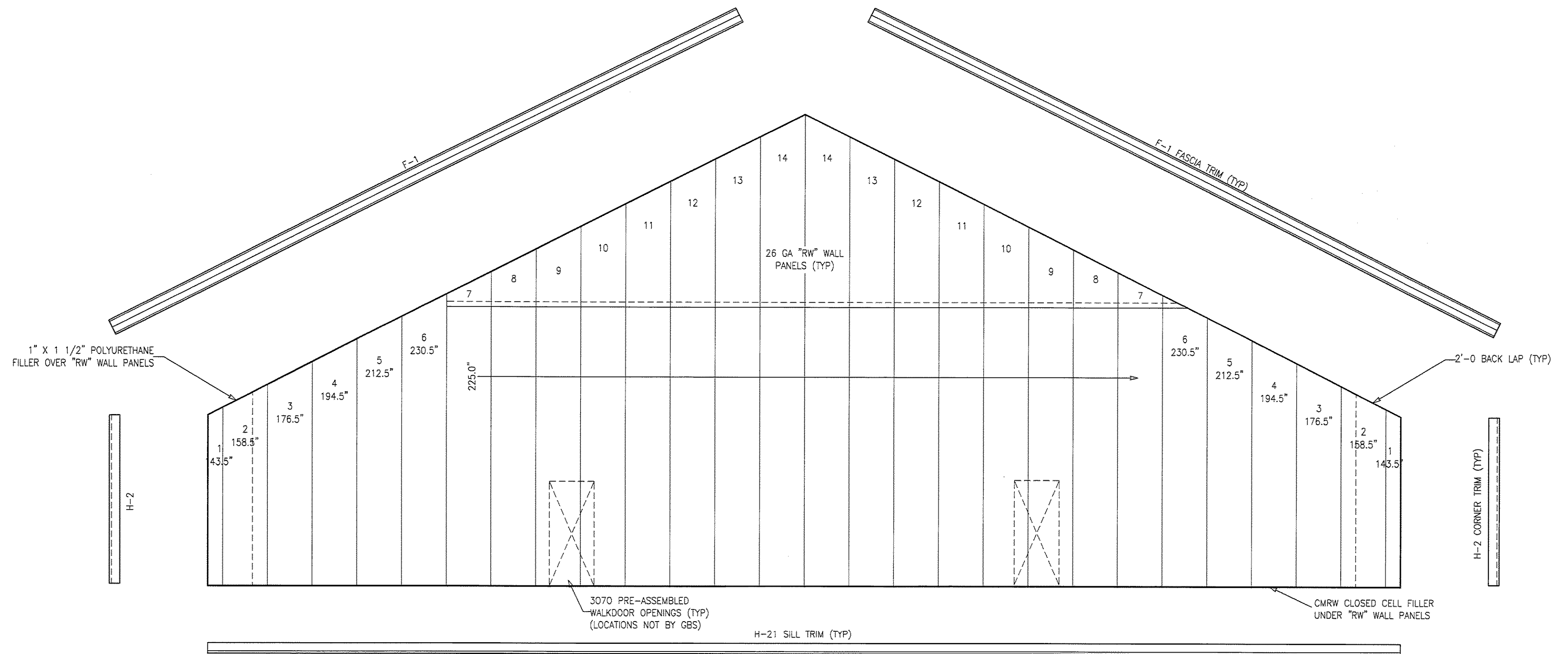


ENDWALL PANEL LAYOUT AT GRIDLINE "1"
NOT TO SCALE

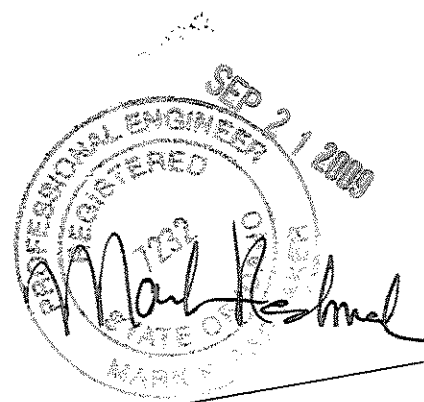


FOR APPROVAL ONLY

<u>BUILDER NOTE:</u> UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.			
REVISIONS		 Building Systems Spokane Washington	
		Job Name : COMMUNITY FELLOWSHIP CHURCH	
		Builder : B.F. BUILDERS INC.	
		Drawn By : CAH	Job Number: 29429 / 39215
		Date : 09/17/09	Drw.: 0 Of: 14 Sht.: 4-10
		Checked By : ...	Dwg. Name : EW1
FINAL REVISION DATE : ...			

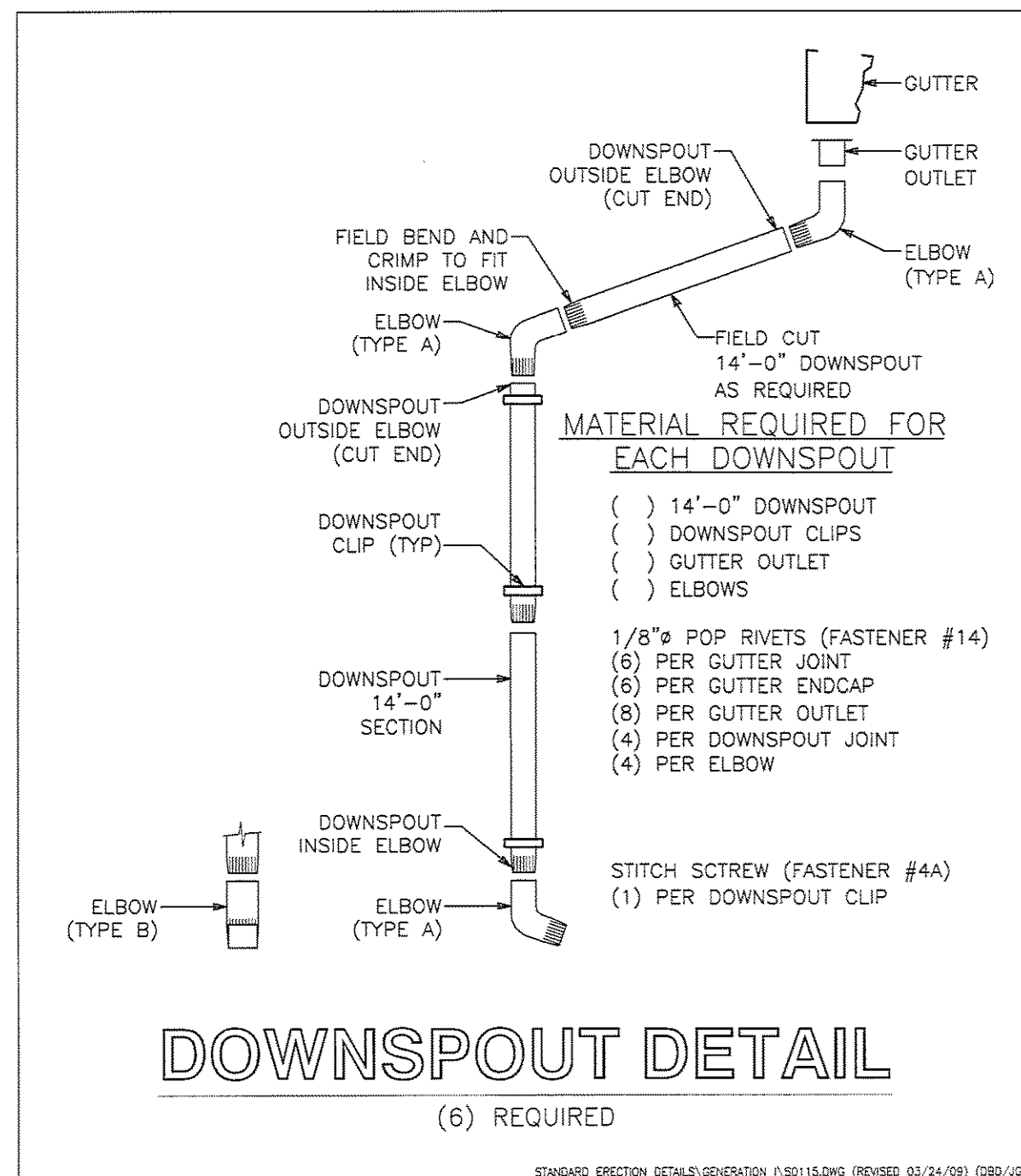
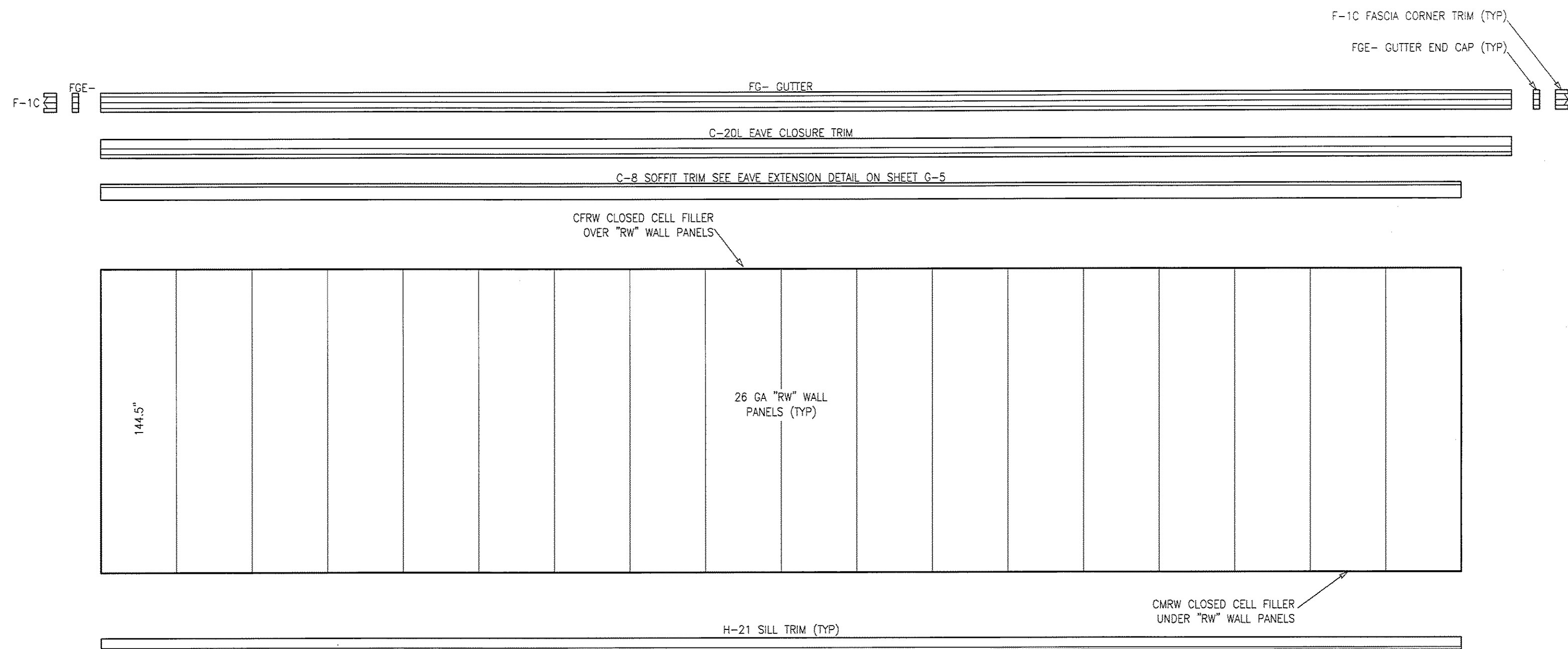


ENDWALL PANEL LAYOUT AT GRIDLINE "4"
NOT TO SCALE



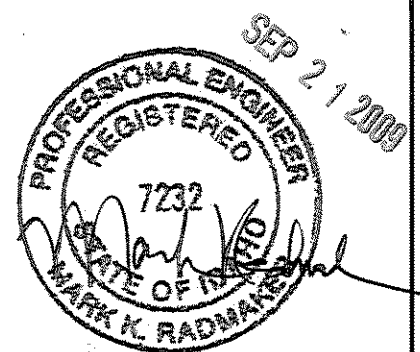
FOR APPROVAL ONLY

BUILDER NOTE: 1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED. 2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS).	
BUILDER NOTE: UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.	
REVISIONS	
Garco Building Systems Spokane Washington	
Job Name : COMMUNITY FELLOWSHIP CHURCH Builder : B.F. BUILDERS INC. Drawn By : CAH Date : 09/17/09 Checked By : ...	
Job Number: 29429 / 38215 Drw.: 11 Of: 14 Sht.: 4-11 Dwg. Name : EW 4	
FINAL REVISION DATE : ...	



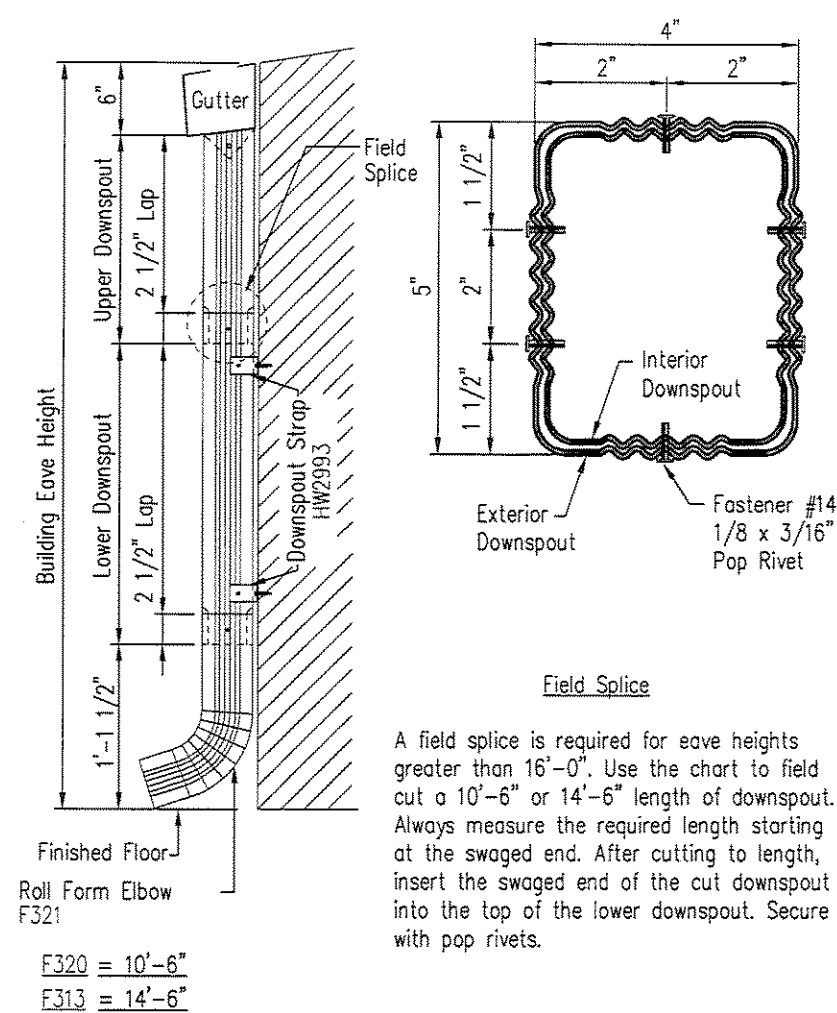
SIDEWALL PANEL LAYOUT AT GRIDLINE "A" (THUS) & "B" (O.H.)

NOT TO SCALE



FOR APPROVAL ONLY

BUILDER NOTE: UNLESS OTHERWISE SPECIFIED, REFER TO GARCO STANDARD DETAIL PACKAGE FOR INSTALLATION OF SECONDARY FRAMING, PANELS AND TRIM.			
REVISIONS		Building Systems Spokane Washington	
Job Name : COMMUNITY FELLOWSHIP CHURCH			
Builder : B.F. BUILDERS INC.			
Drawn By : CAH		Job Number: 29429 / 39215	
Date : 09/17/09		Drw.: 12 Of: 14 Sht.: G-12	
Checked By :		Dwg. Name : SWA & B	
FINAL REVISION DATE :			



4" x 5" Roll Form Downspout

01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Revised On: 09/15/09 (PRMc)

DRAWING NO.
SD701
MOD

Eave HT (feet)	10'-6" F320	14'-6" F313	Straps HW2993
8	1	2	2
9	1	2	2
10	1	2	2
11	1	3	3
12	1	3	3
13	1	3	3
14	1	3	3
15	1	3	3
16	2	3	3
17	2	3	3
18	2	3	3
19	2	3	3
20	2	3	3
21	1	1	4
22	1	1	4
23	1	1	4
24	1	1	4
25	1	1	4
26	2	2	4
27	2	2	4
28	2	2	4
29	2	2	4
30	3	2	4
31	3	2	4
32	3	2	4
33	2	1	5
34	2	1	5

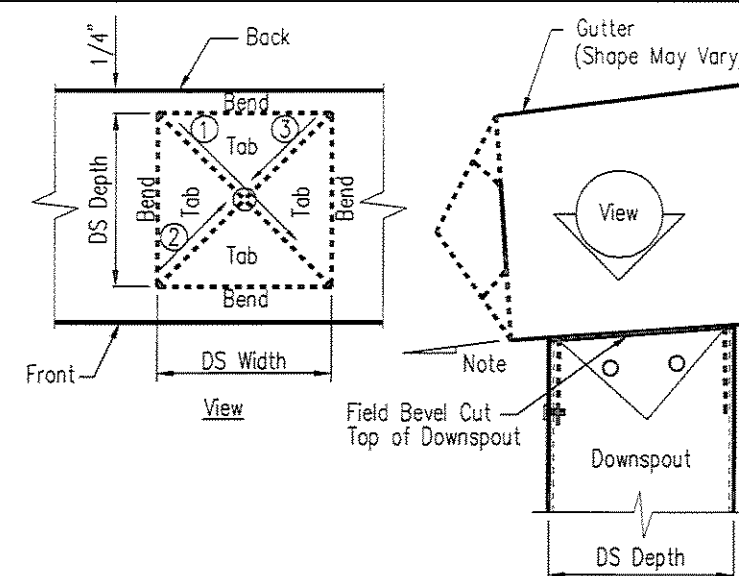
Downspout Schedule

01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Revised On: 09/15/09 (PRMc)

DRAWING NO.
SD701A
MOD



Downspout To Gutter Attachment Detail

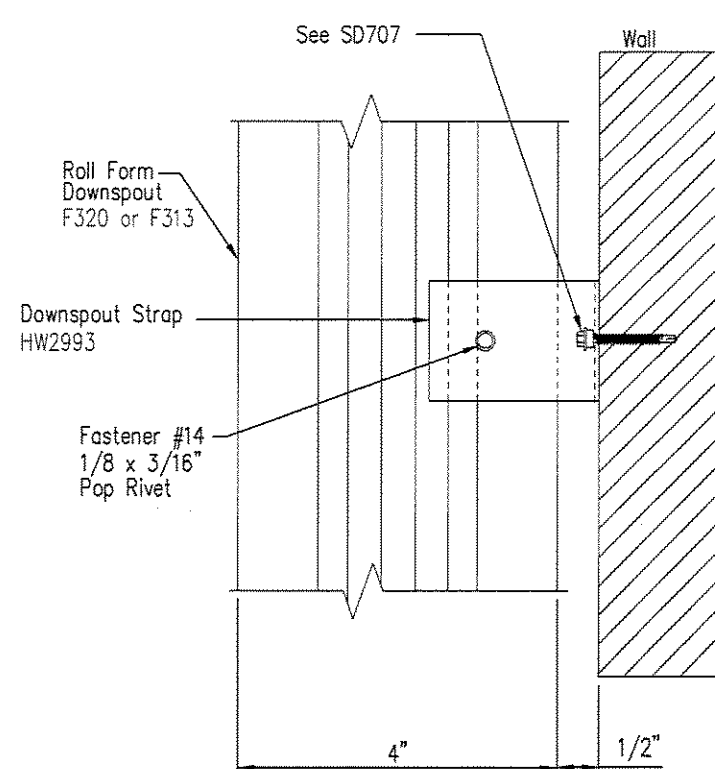
1. Refer to the building erection drawings for the location and spacing of the downspouts.
2. Locate all downspouts over a major panel rib if possible.
3. Make a cardboard template of the downspout shape. Place the template on the bottom of the gutter and trace the outline. Remove the template and draw a line from corner to corner, forming an "x" pattern.
4. Drill a hole at the center of the "x". Using tin snips, cut along the lines of the x only. Do not cut along the outside lines of the downspout square.
5. Bend each triangular tab down toward the ground, 90 Degrees to the bottom of the gutter.
6. Position the top of the downspout under the gutter. Make sure all four gutter tabs are on the inside of the downspout.
7. Install Fastener #14 through the downspout into the gutter tab. Only the two sides and the front of the downspout will receive fasteners.

01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Created On: 01/05/09

DRAWING NO.
SD702



Downspout Strap Attachment Detail

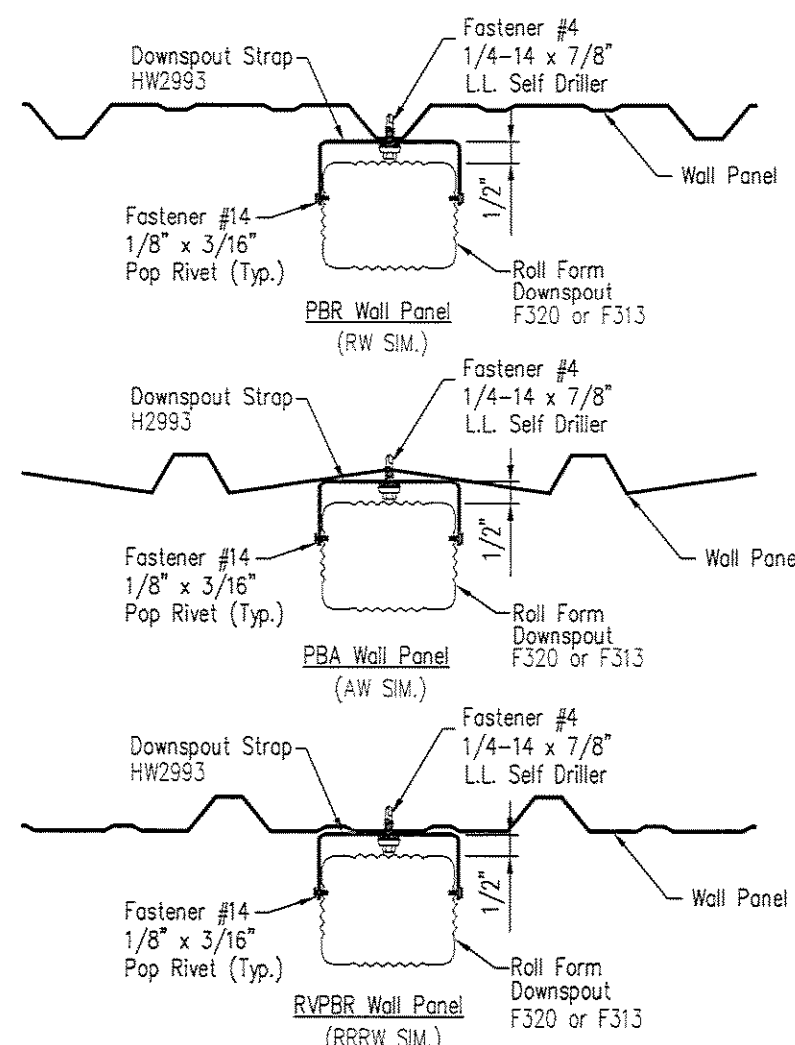
4" x 5" Roll-Form

01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Revised On: 09/15/09 (PRMc)

DRAWING NO.
SD706
MOD



Downspout Strap Attachment Detail

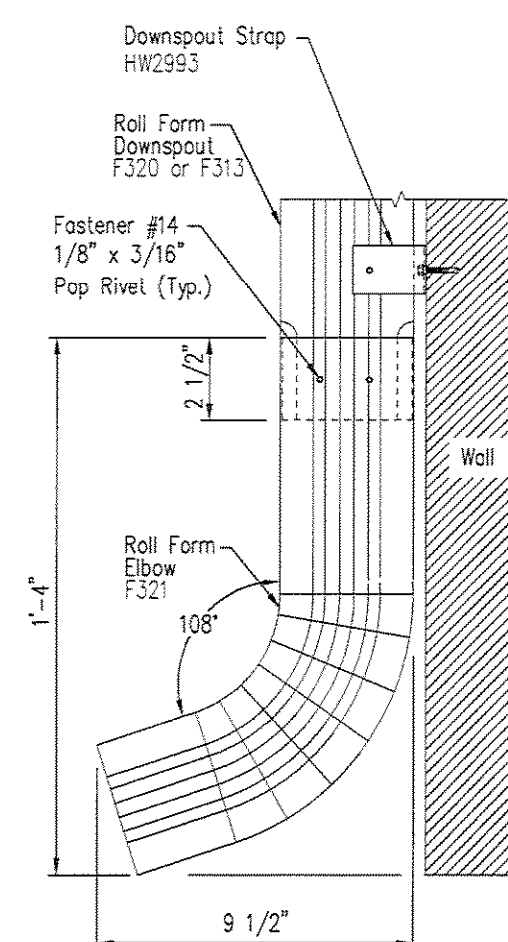
4" x 5" Roll-Form

08/26/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Revised On: 09/15/09 (PRMc)

DRAWING NO.
SD707
MOD



Downspout Kickout

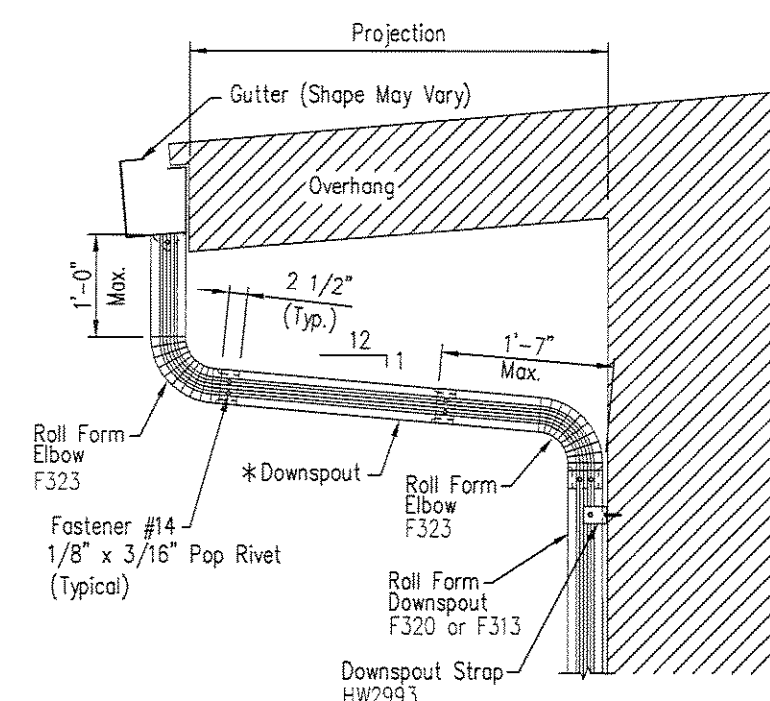
4" x 5" Roll-Form

01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Revised On: 09/15/09 (PRMc)

DRAWING NO.
SD703
MOD



Eave Canopy Downspout Detail

06/27/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

Revised On: 09/15/09 (PRMc)

DRAWING NO.
SD704
MOD

DOWNSPOUT INSTALLATION WORK SHEET #1

4" x 5" ROLL FORMED DOWNSPOUT
NOT TO SCALE

FOR APPROVAL ONLY

ERECT\DOWNSPOUT_WORK_SHEET_1.dwg (REVISED 09/15/09) (PRMc) FINAL REVISION DATE : ...

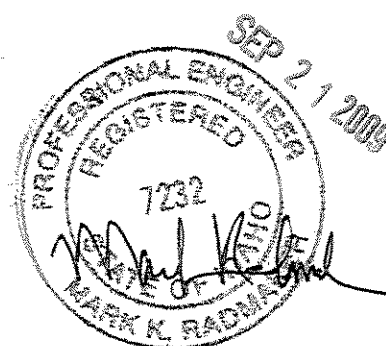
REVISIONS

Garco	Building Systems	Spokane Washington
Job Name :	COMMUNITY FELLOWSHIP CHURCH	
Builder :	B.F. BUILDERS INC.	
Drawn By :	CAH	Job Number: 29429
Date :	09/15/09	Drw.: 13 Of: 14 Sht.: 4-13
Checked By :	Dwg. Name : Downspout Dtl.	

INSERT THE APPROPRIATE PANEL FASTENER LOCATION DETAIL:

SD0001.dwg (FASTENER LOCATION "PBR" PANEL AT WALL)
SD0001A.dwg (FASTENER LOCATION "PBA" PANEL AT WALL)
SD0001B.dwg (FASTENER LOCATION "PBU" PANEL AT WALL)
SD0001C.dwg (FASTENER LOCATION "RVPBU" PANEL AT WALL)
SD0001D.dwg (FASTENER LOCATION "RVPBR" PANEL AT WALL)
SD0002.dwg (FASTENER LOCATION "PBR" PANEL AT ROOF)

SEE "STANDARD ERECTION DETAILS" BOOKLET
FOR PANEL FASTENER LOCATIONS FOR "RW"
ROOF PANELS AND "AW" & "RW" WALL PANELS



FASTENER #5 1/4"-14 x 1 1/4" Shoulder TEK 2 5/16" Hex Head	FASTENER #14 1/8" x 3/16" Pop Rivet	FASTENER #17B 12-14 x 1 1/2" Driller 5/16" Hex Washer Head w/ 5/8" O.D. Washer
FASTENER #6 12-24 x 1 1/4" TEK 5 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #14A 1/8" x 3/8" Pop Rivet SS	FASTENER #18A 14 x 3/4" TYPE A 5/16" Hex Washer Head w/ 5/8" O.D. Washer
FASTENER #6A 12-24 x 1 1/4" TEK 5 5/16" Hex Washer Head	FASTENER #17 12-14 x 1" Driller 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #18B 14 x 1 1/2" TYPE A 5/16" Hex Washer Head w/ 5/8" O.D. Washer
FASTENER #12A 12 x 1 Pancake Self Driller 01/05/09	FASTENER #17A 12-14 x 1 1/4" Driller 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #24 8 x 5/8" Nibbed Driller

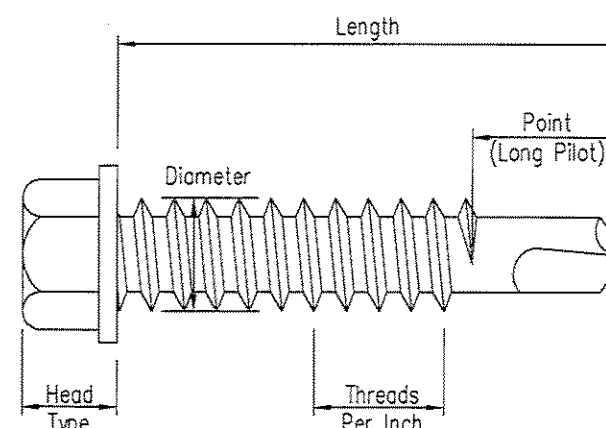
NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

DRAWING NO.
SD823A

Created On: 01/05/09

Example:

Diameter Length Head Type Material Finish
#12-14 x 1-1/4" Type 3 HWH, Self-Drilling, Carbon Steel, .0005 Minimum Zinc PLate
Threads Per Inch Point Fastener Type



Self Drilling Fastener Terminology

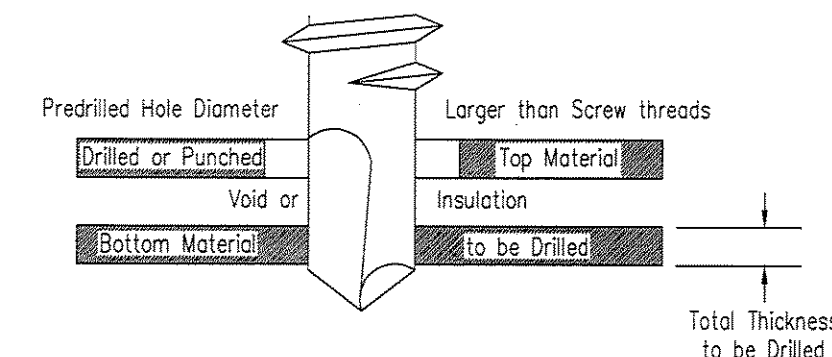
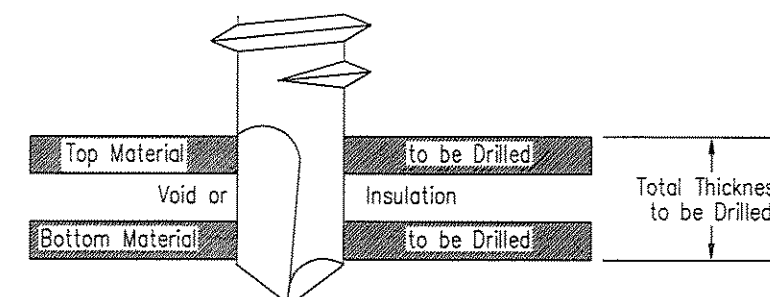
01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

DRAWING NO.
SD7

Created On: 01/05/09

The length of the tip required on a drilling fastener is determined by adding the thickness of the top material, any insulation or void between the top material and bottom material, and the thickness of the bottom material. If a hole larger than the screw thread has been pre-drilled or punched into the top material, only the thickness of the bottom material need be considered. (The threaded portion of the shank must be long enough to extend into and through the bottom material drilled.)



Drilling Tip Length Determination

01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

DRAWING NO.
SD7B

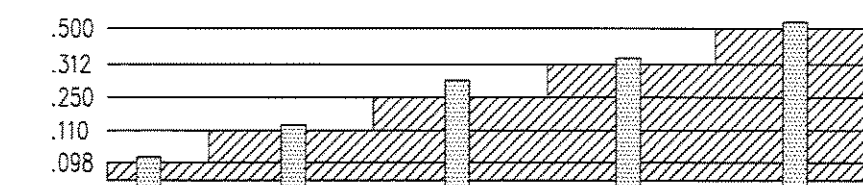
Created On: 01/05/09

Self-drilling fasteners are designed to drill the material and tap the hole. Material thickness is an important consideration when determining the proper point diameter. The point diameter is described as the point TYPE. Point types are as follows:

- Type 1: Light gauge application
- Type 2: Medium light gauge application
- Type 3: Medium gauge application
- Type 4: Medium heavy gauge application
- Type 5: Heavy gauge application

The point diameter allows the threads to tap into the material without excessive force which can break the shank, or very low force which can easily strip-out the material during seating torque. Each point type has a specific FLUTE length which allows the chip to escape from the hole during the drilling operation. Depending on the application, some drill screws require a special PILOT section. The pilot section is the area that is unthreaded on the drill point. The pilot area is important to the performance of the fastener. The reason for the pilot area is so that the drilling of the hole is completed before the threads engage. If the threads engage before the drilling is completed, the drill point will have a tendency to burn because the threads will force the point into the material.

Material Thickness: Drilling Point Capabilities



Point Type:

Type 1 Light Duty	Type 2 Medium Duty	Type 3 Medium Duty	Type 4 Heavy Duty	Type 5 Heavy Duty
#10 (.035-.090) #12 (.035-.090) 1/4" (.035-.090) #18 (.035-.098)	#6 (.035-.098) #8 (.035-.100) #10 (.090-.110) #12 (.050-.140)	#8 (.100-.140) #10 (.110-.175) #12 (.090-.210) 1/4" (.110-.250)	#12 (.145-.312)	#12 (.250-.500)

01/05/09

Self-Drilling Fasteners

Created On: 01/05/09

NOTE: These drawings are intended to depict general installation of item(s) described above. Some item(s) may have been omitted for clarity of presentation. Consult your erection manual or additional SD-Sheets for further guidelines and/or clarifications.

DRAWING NO.
SD7A

Standard Grade

Description	Fastener Number	Application
1/4"-14 x 7/8" Type 2	4A	Stitch & Trim Screw
12-14 x 1 1/4" Type 2	17A	Member Screw (Up To 4" Insulation)
12-14 x 1 1/2" Type 2	17B	Member Screw (Up To 6" Insulation)

Long Life

Description	Fastener Number	Application
1/4"-14 x 7/8" Type 1	4	Stitch & Trim Screw
12-14 x 1 1/4" Type 2	3	Member Screw (Up To 4" Insulation)
12-14 x 1 1/2" Type 2	3A	Member Screw (Up To 6" Insulation)

Self-Drilling Screw Application

01/05/09

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DRAWING NO.
SD7C

Created On: 01/05/09

FASTENER #1 1/4"-14 x 1" Driller 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #1E 1/4"-14 x 1 1/4" Long Life Driller 5/16" Hex Washer Head w/ Sealing Washer	FASTENER #3 12-14 x 1 1/4" Long Life Driller 5/16" Hex Washer Head w/ Sealing Washer
FASTENER #1A 12-14 x 1" Driller 5/16" Hex Washer Head	FASTENER #1F 1/4"-14 x 1 1/2" Driller 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #3A 12-14 x 1 1/2" Long Life Driller 5/16" Hex Washer Head w/ Sealing Washer
FASTENER #1B 1/4"-14 x 1 1/4" Driller 5/16" Hex Washer Head	FASTENER #2A 17 x 1" Long Life AB 5/16" Hex Washer Head w/ Sealing Washer	FASTENER #4 1/4"-14 x 7/8" Long Life Lap TEK 5/16" Hex Washer Head w/ Sealing Washer
FASTENER #1C 1/4"-14 x 3/4" Driller 5/16" Hex Washer Head w/ 5/8" O.D. Washer 01/05/09	FASTENER #2B 1/4"-14 x 1" Long Life AB 5/16" Hex Washer Head w/ Sealing Washer	FASTENER #4A 1/4"-14 x 7/8" Long Life Lap TEK 5/16" Hex Washer Head w/ 5/8" O.D. Washer

Created On: 01/05/09

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DRAWING NO.
SD823

FASTENER #32 14 x 1 1/2" TYPE AB Long Life 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #44 1/4"-14 x 7/8" Lap TEK 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #226 3/16" x 9/16" Closed End Rivet
FASTENER #33 14 x 1 1/4" TYPE AB Long Life 5/16" Hex Washer Head w/ 5/8" O.D. Washer	FASTENER #44L 1/4"-14 x 7/8" Long Life Lap TEK 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #228 10 x 1/2" Grommet Washer
FASTENER #43 1/4"-14 x 1 1/4" Driller 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #46 1/4"-14 x 5/8" Long Life Type B 5/16" Hex Washer Head w/ Sealing Washer	FASTENER # HW399 #6 x 1" Rubber Grommet 1/4" Hex Head w/ Washer
FASTENER #27 12-14 x 1" Long Life Driller 5/16" Hex Washer Head w/ Sealing Washer	FASTENER #43L 1/4"-14 x 1 1/4" Long Life Driller 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #66 14 x 3/4" Type AB Long Life 5/16" Hex Washer Head w/ 5/8" O.D. Washer

01/05/09

Revised 05/06/09 (DBD/PRM)

Created On: 01/05/09

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DRAWING NO.
SD823B MOD.

FASTENER DETAILS

NOT TO SCALE

FOR APPROVAL ONLY

REVISIONS



Building Systems
Spokane Washington

Job Name : COMMUNITY FELLOWSHIP CHURCH
Builder : B.F. BUILDERS INC.
Drawn By : CAH
Date : 09/17/09
Checked By :
Job Number: 29429 / 38215
Drawn: 14 Of: 14
Sht.: G-14
Dwg. Name : Fast Det.