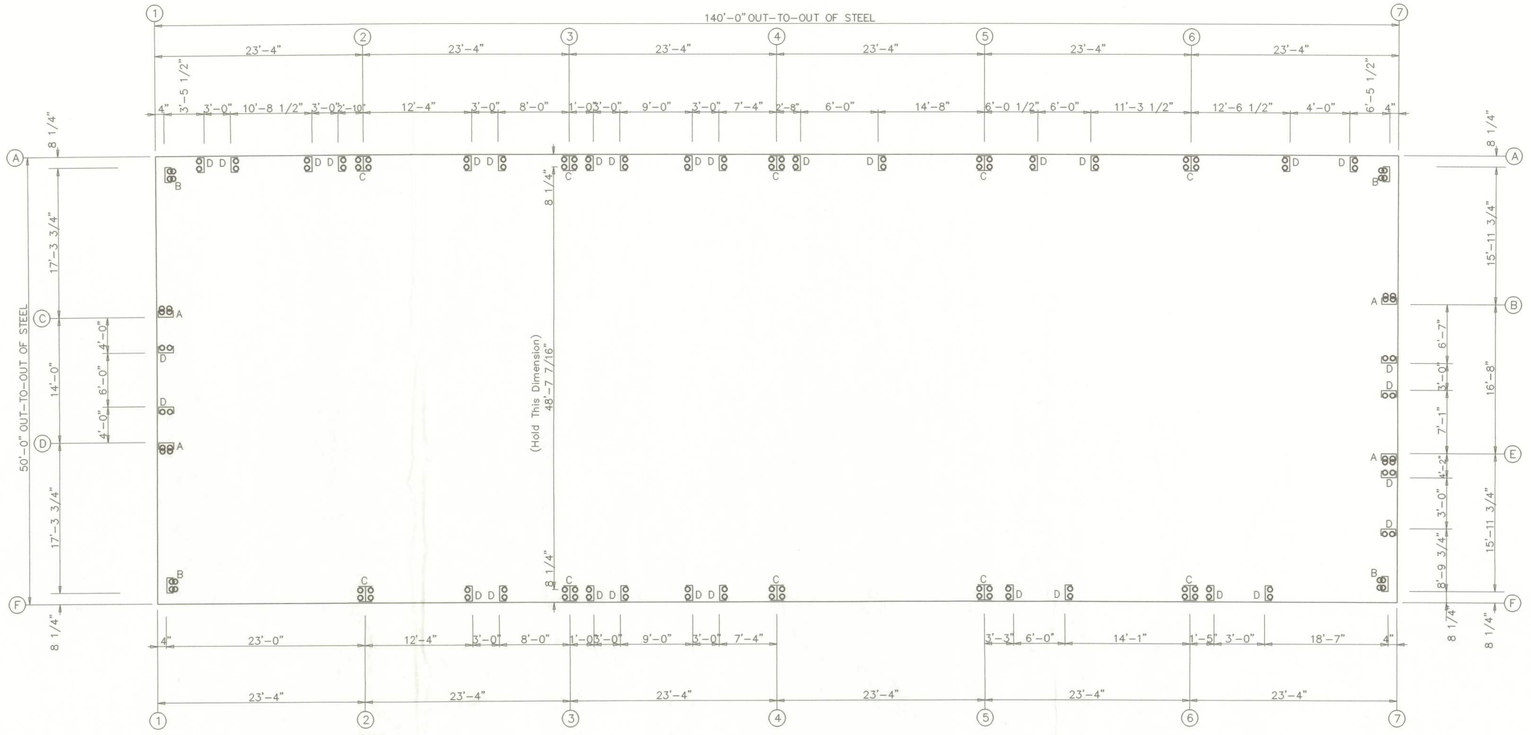
2"
3"
F.D
3"
3"
F.D
2"
SEPTIC TANK
SEPTIC TANK



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)
SCALE: 1/8" = 1'-0"

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	50.0
Length (ft)	=	140.0
Eave Height (ft)	=	14.0/ 14.0
Roof Slope (rise/12)	=	4.0/ 4.0
Dead Load (psf)	=	5.0
Collateral Load (psf)	=	2.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	120.0
Wind Code	=	FBC 10 (IBC 12)
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Ss)	=	0.15

ID	Description
1	Dead+Collateral+Live
2	0.6Dead+0.6Wind_Left1
3	0.6Dead+0.6Wind_Right1
4	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
5	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1
6	0.6Dead+0.6Wind_Left2+0.6Wind_Suction
7	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
8	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2
9	0.6Dead+0.6Wind_Right1+0.6Wind_Suction

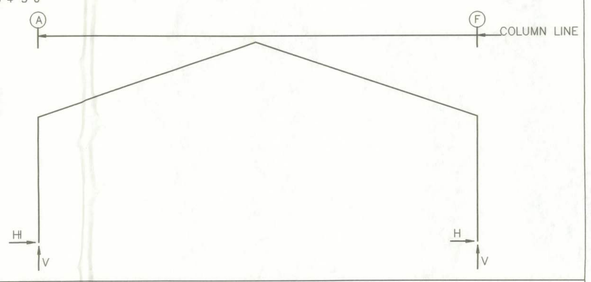
ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
O 64	Jamb	1/2"	A307	2.00
O 32	Endwall	5/8"	A307	3.00
O 40	Frame	3/4"	A307	3.00

BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis
L_EW	1					47	3
F_SW	F					20	5
R_EW	7					47	3
B_SW	A					22	5

FRAME LINES: 2 3 4 5 6



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k) Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Dia	Base Plate (in) Width	Length	Thick	Grout (in)
2*	A	1	4.6	10.2	2	-3.5	-5.4	4	0.750	8.000	12.56	0.375	0.0
2*	F	3	3.5	-5.4	1	-4.6	10.2	4	0.750	8.000	12.56	0.375	0.0
		1	-4.6	10.2	3	3.5	-5.4						

2* Frame lines: 2 3 4 5 6

RIGID FRAME: BASIC COLUMN REACTIONS (k)

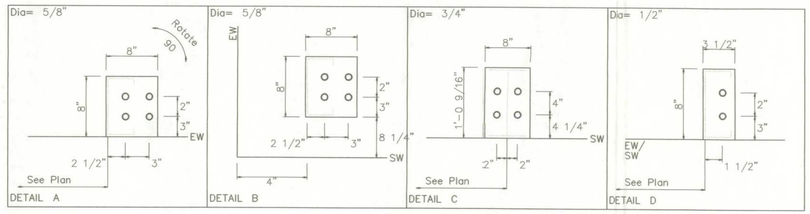
Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
2*	A	0.8	2.0	0.6	1.2	3.2	7.0	-6.6	-11.0	-0.8	-8.3	-6.0	-6.4
2*	F	-0.8	2.0	-0.6	1.2	-3.2	7.0	0.8	-8.3	6.6	-11.0	0.3	-3.7

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	A	-0.3	-3.7	-0.7	-9.6	-2.0	-8.5	-0.1	-0.1	0.1	0.1
2*	F	6.0	-6.4	2.0	-8.5	0.7	-9.6	-0.1	0.1	0.1	-0.1

2* Frame lines: 2 3 4 5 6

ENDWALL COLUMN REACTIONS(k)

MAXIMUM VERTICAL Dead+Collateral+Live	= 5.4
MAXIMUM VERTICAL Dead+Wind	= -4.9
MAXIMUM HORIZONTAL Dead+Wind	= 3.4



ANCHOR BOLT DETAILS
NOTE: All Base Plates @ 100'-0" (U.N.)
N.T.S.

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

PROJECT No. 92-1301
DATE: SEPT. 2013
SCALE: AS NOTED

DRAWN BY: J. WELLS
APPROVED BY: P. SANTORA

REVISIONS:

UNION LASTEEL
LULU BAPTIST CHURCH
A.B. PLAN
50'-0" X 140'-0" BUILDING
LAKE CITY, FL

NORTHSTAR ENGINEERING SERVICES
(P)334.673.9895 (F)334.673.1846
2431 Hartford Hwy Dothan, AL 36305
web: www.northstarengineering.com

AL CERT. OF AUTH. CA-1896-E
FL CERT. OF AUTH. 26312
GA CERT. OF AUTH. 003129

SHEET 1
OF 5

GENERAL NOTES

A. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND SPECIFICATIONS.

B. THE CONTRACTOR SHALL WORK STRUCTURAL DRAWINGS TOGETHER WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, GRADES, ETC. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

C. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWING ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

D. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.

DESIGN CRITERIA

- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318 - 89(92))
- BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530 - 92)
- AISC "MANUAL OF STEEL CONSTRUCTION" - NINTH EDITION
- AWSD D 1.1 "STRUCTURAL WELDING CODE" - LATEST EDITION
- AISI DESIGN FOR COLD FORMED STEEL STRUCTURAL MEMBERS 1996 W/1999 ADDENDUM
- ANSI / ASCE 7-10" MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

CONCRETE

ALL CONCRETE SHALL BE DESIGNED TO SECURE A STRENGTH OF 2000 PSI AT 28 DAYS.

PROVIDE MINIMUM COVER FOR REINFORCING BARS, UNLESS OTHERWISE INDICATED:
FOOTINGS (TO GROUND) 3"
FOOTINGS (TOP AND SIDE) 3"
SLABS ON GRADE: 2"
SIDEWALKS: 2"

ALL BAR SPLICES AND DOWELS SHALL LAP 30 BAR DIAMETERS (MINIMUM) UNLESS NOTED OTHERWISE.

ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMED TO ASTM-A615, GRADE 60.

ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

ALL WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH, PANEL PLUS TWO INCHES AT SIDES AND ENDS AND SHALL BE WIRED TOGETHER.

ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF ACI 318 AND ACI 315. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

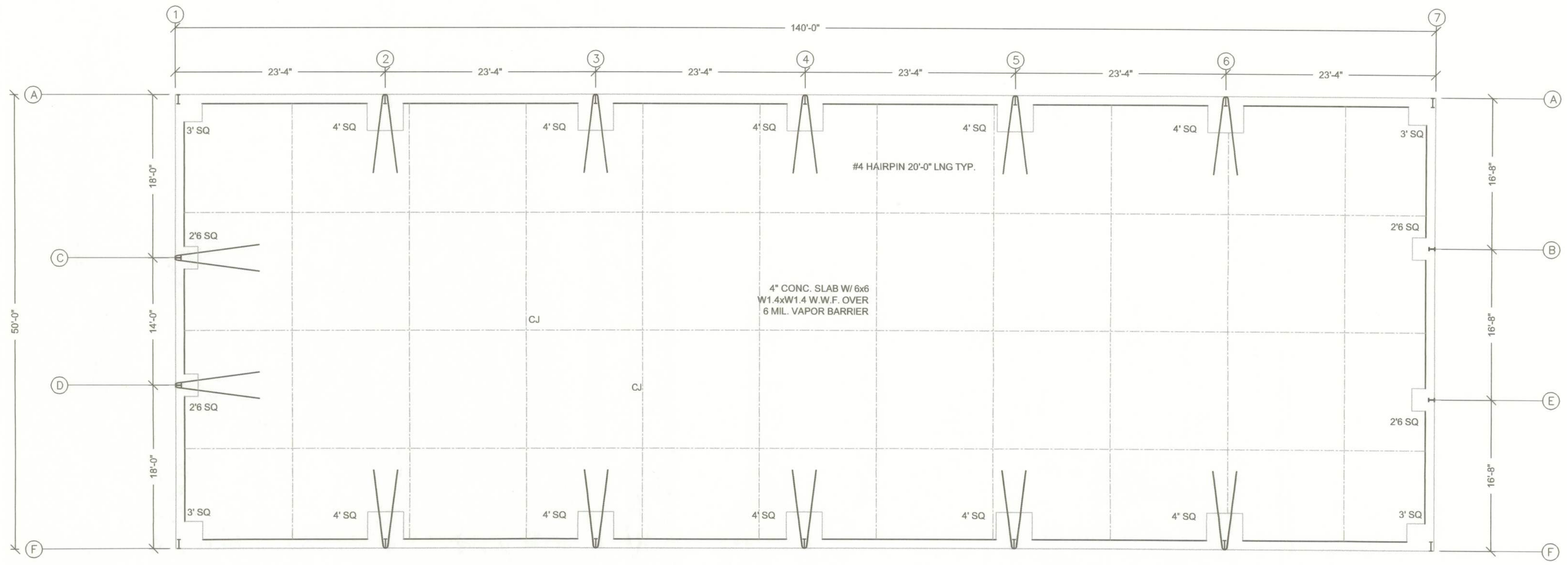
EARTHWORK

ALL EXCAVATION AND BACK FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

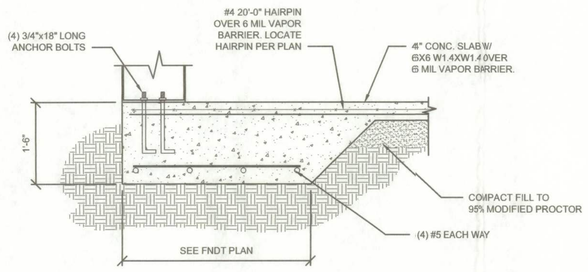
CONCRETE SHALL BE PLACED AS SOON AS PRACTICAL AFTER SOIL PREPARATION AND COMPACTION SO AS NOT TO ALLOW THE ELEMENTS OR CONSTRUCTION ACTIVITY TO DISTURB THE PREPARED AREA.

UNDER NO CIRCUMSTANCES WILL DIGGING, TUNNELING, OR TRENCHING BE ALLOWED AT OR NEAR ANY CONCRETE STRUCTURE WHICH MIGHT ACT TO UNDERMINE THE STRUCTURE.

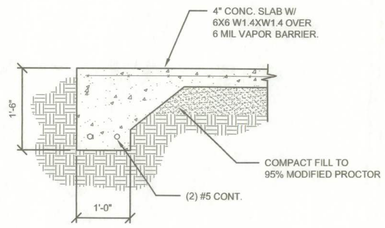
FOUNDATIONS ARE DESIGNED TO BEAR ON SOIL WHICH PROVIDES A SAFE BEARING CAPACITY OF 2,000 PSF.



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



COLUMN FOOTER DETAIL
SCALE: 3/4" = 1'-0"



CONT. FOOTER DETAIL
SCALE: 3/4" = 1'-0"

PROJECT No. 92-1301
DATE: SEPT. 2013
SCALE: AS NOTED

DRAWN BY: J. WELLS
APPROVED BY: P. SANTORA

REVISIONS:

UNION LASTEEL
LULU BAPTIST CHURCH
FOUNDATION PLAN
50'-0" X 140'-0" BUILDING
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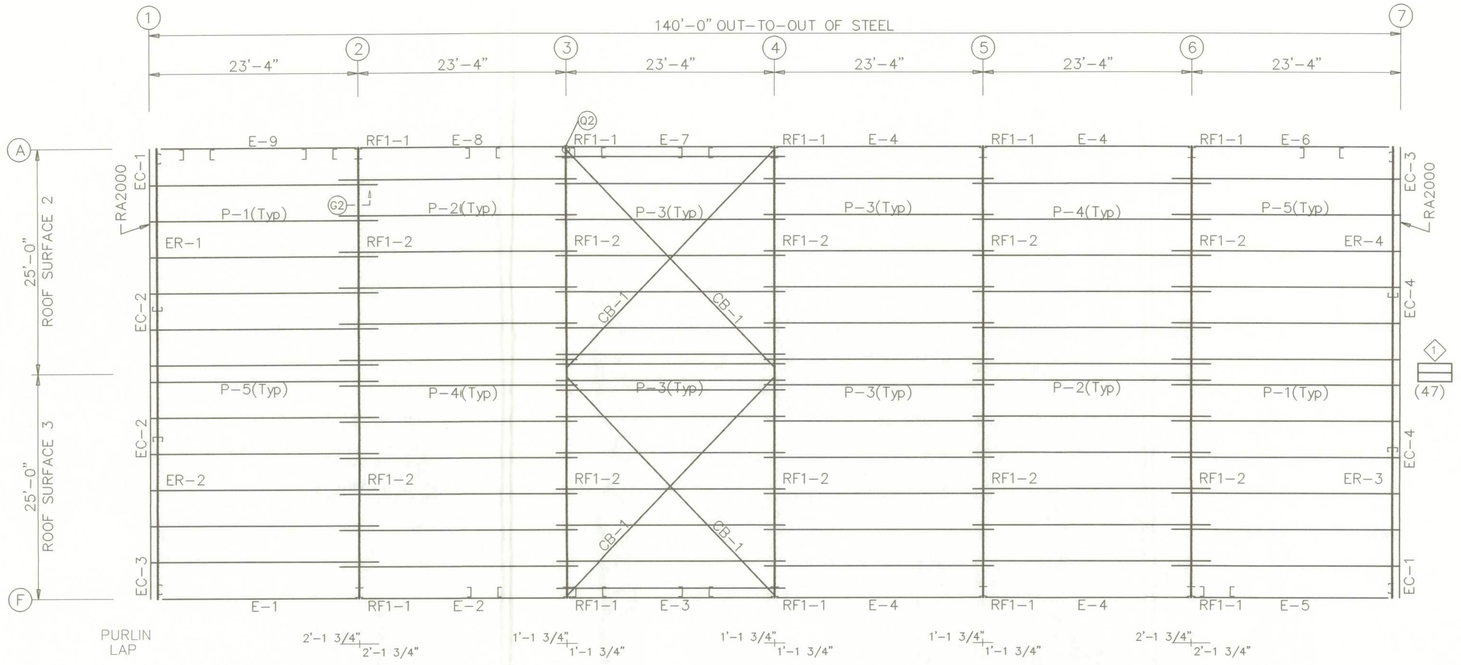
SHEET 2
OF 5



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF SHEETING

Cool White

PANELS: 26 Ga. SX

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
P-1	8X25Z16	24'-10 3/4"
P-2	8X25Z16	26'-7 1/2"
P-3	8X25Z16	25'-7 1/2"
P-4	8X25Z16	26'-7 1/2"
P-5	8X25Z16	24'-10 3/4"
E-1	8E14LOW	22'-8 1/4"
E-2	8E14LOW	23'-3 1/2"
E-3	8E14LOW	23'-3 1/2"
E-4	8E14LOW	23'-3 1/2"
E-5	8E14LOW	22'-9 1/4"
E-6	8E14LOW	22'-9 1/4"
E-7	8E14LOW	23'-3 1/2"
E-8	8E14LOW	23'-3 1/2"
E-9	8E14LOW	22'-8 1/4"
CB-1	0.25_CBL	35'-0"

TRIM TABLE ROOF PLAN		
QID	PART	LENGTH
1	SSRC	3'-0"

GENERAL NOTES

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D. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.

DESIGN CRITERIA

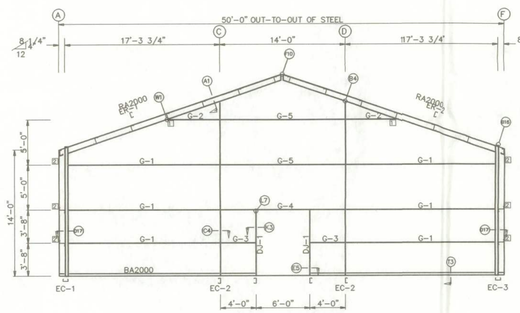
- FLORIDA BUILDING CODE - 2001 2ND EDITION
- AISC "MANUAL OF STEEL CONSTRUCTION" - NINTH EDITION
- AWSD D 1.1 "STRUCTURAL WELDING CODE" - LATEST EDITION
- AISI DESIGN FOR COLD FORMED STEEL STRUCTURAL MEMBERS 1996 W/1999 ADDENDUM
- ANSI / ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

DESIGN NOTE:

FRAMED OPENINGS AND ALL OTHER CLADDING AND COMPONENTS MUST BE DESIGNED FOR THE FOLLOWING WIND PRESSURES (psf):

ROOF:
INTERIOR ZONE- (+11.6) (-29.6)
END ZONE- (+11.6) (-45.6)
CORNER- (+11.6) (-63.6)

WALL:
INTERIOR ZONE- (+29.0) (-31.6)
END ZONE- (+29.0) (-38.0)



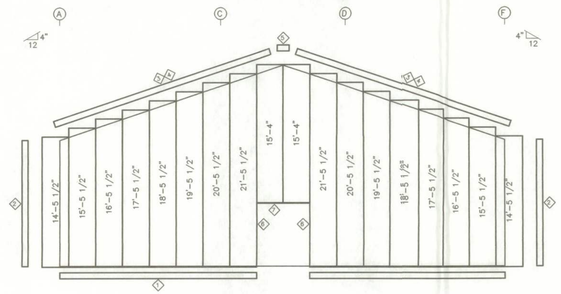
ENDWALL FRAMING: FRAME LINE 1

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	2	A325	5/8"	1 3/4"
ER-1/ER-2	6	A325	5/8"	1 3/4"
Int_Column/Raf	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
EC-1	8X25C16	14'-5 7/16"
EC-2	8X25C12	19'-1 9/16"
EC-3	8X25C16	14'-5 7/16"
ER-1	8X35C12	25'-1 3/4"
ER-2	8X35C12	25'-1 3/4"
DJ-1	8X35C16	2'-4"
G-1	8X25Z16	16'-3 1/4"
G-2	8X25Z16	5'-3 7/16"
G-3	8X25Z16	3'-7 1/2"
G-4	8X25Z16	13'-11 1/2"
G-5	8X25Z16	13'-11 1/2"

TRIM TABLE FRAME LINE 1		
QID	PART	LENGTH
1	BT-101	10'-3"
2	CT-102	10'-3"
3	RT-101	10'-3"
4	RT-101	6'-8 1/4"
5	SPB4	8"
6	JT-101	10'-3"
7	HT-101	10'-3"

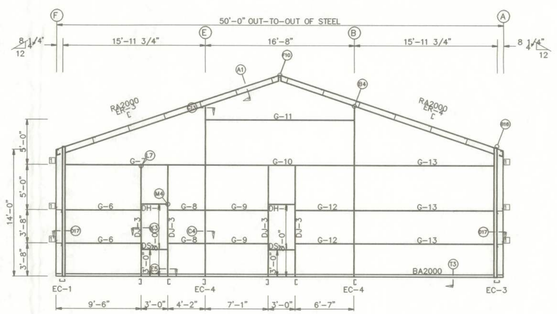
CONNECTION PLATES FRAME LINE 1	
QID	MARK/PART
1	b1
2	SA005



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. SX - Light Stone

SCALE: 1/8" = 1'-0"



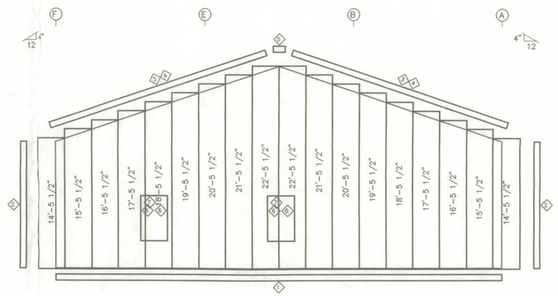
ENDWALL FRAMING: FRAME LINE 7

BOLT TABLE FRAME LINE 7				
LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	2	A325	5/8"	1 3/4"
ER-3/ER-4	6	A325	5/8"	1 3/4"
Int_Column/Raf	2	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE 7		
MARK	PART	LENGTH
EC-1	8X25C16	14'-5 7/16"
EC-3	8X25C16	14'-5 7/16"
EC-4	8X25C12	18'-8 1/4"
ER-3	8X25C12	25'-1 3/4"
ER-4	8X25C12	25'-1 3/4"
DJ-3	8X35C16	12'-4"
DH-1	8X35C16	2'-11 1/2"
DS-1	8X35C16	2'-11 1/2"
G-6	8X25Z14	7'-9 1/4"
G-7	8X25Z14	14'-11 1/4"
G-8	8X25Z14	3'-5 1/2"
G-9	8X35Z16	6'-8 1/2"
G-10	8X35Z16	16'-7 1/2"
G-11	8X35Z16	16'-7 1/2"
G-12	8X35Z16	6'-2 1/2"
G-13	8X25Z16	14'-11 1/4"

TRIM TABLE FRAME LINE 7		
QID	PART	LENGTH
1	BT-101	10'-3"
2	CT-102	10'-3"
3	RT-101	10'-3"
4	RT-101	6'-8 1/4"
5	SPB4	8"
6	JT-101	10'-3"
7	HT-101	10'-3"

CONNECTION PLATES FRAME LINE 7	
QID	MARK/PART
1	SA005



ENDWALL SHEETING & TRIM: FRAME LINE 7

PANELS: 26 Ga. SX - Light Stone

SCALE: 1/8" = 1'-0"

PROJECT No. 92-1301

DATE: SEPT. 2013

SCALE: AS NOTED

DRAWN BY: J. WELLS

APPROVED BY: P. SANTORA

REVISIONS:

UNION LASTEEL
LULU BAPTIST CHURCH
ROOF PLAN/FRAMING
50'-0" X 140'-0" BUILDING
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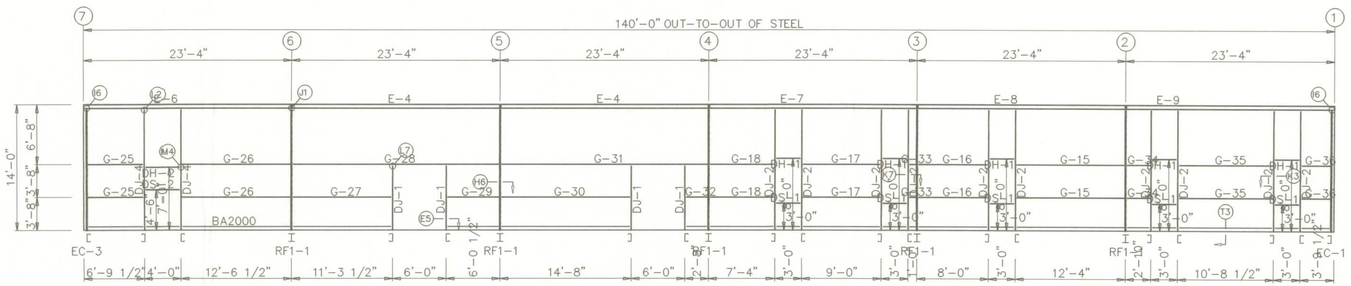
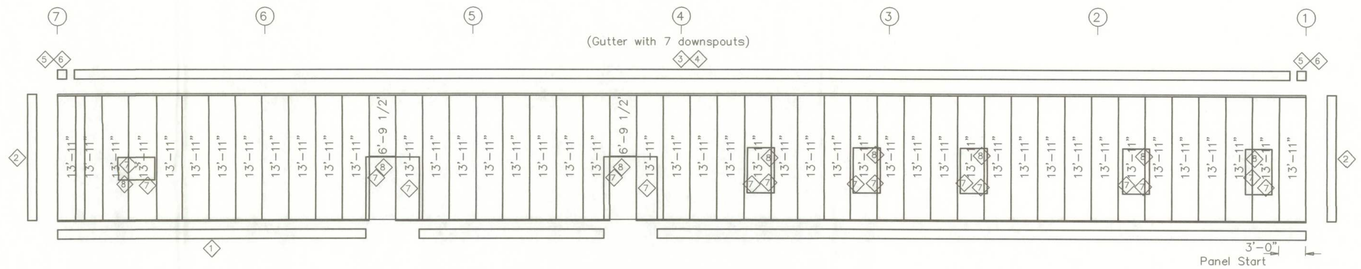


SIDEWALL FRAMING: FRAME LINE A

SCALE: 1/8" = 1'-0"

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
DJ-1	8X35C16	7'-4"
DJ-2	8X35C16	13'-6 5/8"
DJ-4	8X35C16	13'-6 5/8"
DH-1	8X35C16	2'-11 1/2"
DH-2	8X35C16	3'-11 1/2"
DS-1	8X35C16	2'-11 1/2"
DS-2	8X35C16	3'-11 1/2"
E-4	8E14LOW	23'-3 1/2"
E-6	8E14LOW	22'-9 1/4"
E-7	8E14LOW	23'-3 1/2"
E-8	8E14LOW	23'-3 1/2"
E-9	8E14LOW	22'-8 1/4"
G-15	8X25Z16	11'-7 1/2"
G-16	8X25Z16	7'-3 1/2"
G-17	8X25Z16	8'-3 1/2"
G-18	8X25Z16	6'-7 1/2"
G-25	8X25Z16	6'-5"
G-26	8X25Z16	11'-10"
G-27	8X25Z12	10'-7"
G-28	8X25Z12	22'-7 1/2"
G-29	8X25Z12	5'-4"
G-30	8X25Z12	13'-11 1/2"
G-31	8X25Z12	22'-7 1/2"
G-32	8X25Z12	1'-11 1/2"
G-33	8X25Z16	3 1/2"
G-34	8X25Z16	2'-1 1/2"
G-35	8X25Z16	10'-0"
G-36	8X25Z16	3'-5"

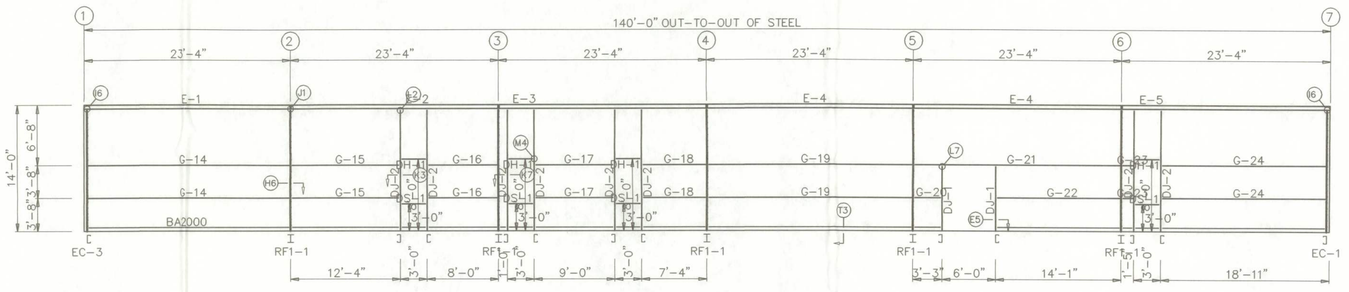
TRIM TABLE FRAME LINE A		
QID	PART	LENGTH
1	BT-101	10'-3"
2	CT-102	10'-3"
3	GU-124	10'-3"
4	GC-104	10'-3"
5	SCB	8"
6	EC-121	8"
7	JT-101	10'-3"
8	HT-101	10'-3"



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. SX – Light Stone

SCALE: 1/8" = 1'-0"

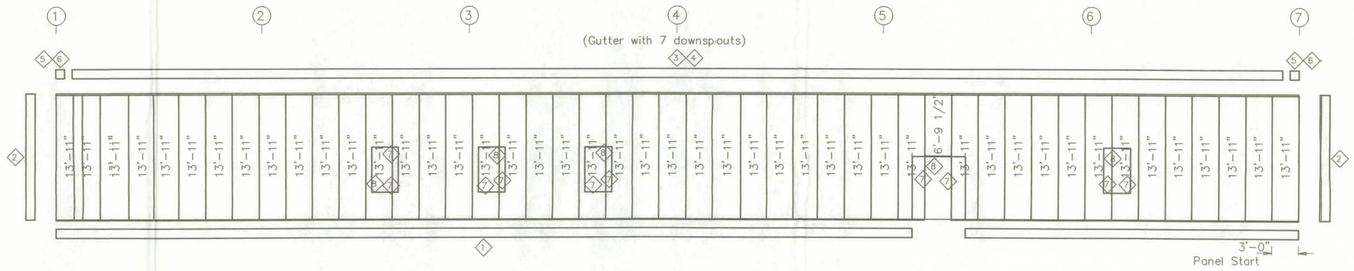


SIDEWALL FRAMING: FRAME LINE F

SCALE: 1/8" = 1'-0"

MEMBER TABLE FRAME LINE F		
MARK	PART	LENGTH
DJ-1	8X35C16	7'-4"
DJ-2	8X35C16	13'-6 5/8"
DH-1	8X35C16	2'-11 1/2"
DS-1	8X35C16	2'-11 1/2"
E-1	8E14LOW	22'-8 1/4"
E-2	8E14LOW	23'-3 1/2"
E-3	8E14LOW	23'-3 1/2"
E-4	8E14LOW	23'-3 1/2"
E-5	8E14LOW	22'-9 1/4"
G-14	8X35Z14	22'-11 1/2"
G-15	8X25Z16	11'-7 1/2"
G-16	8X25Z16	7'-3 1/2"
G-17	8X25Z16	8'-3 1/2"
G-18	8X25Z16	6'-7 1/2"
G-19	8X35Z14	22'-7 1/2"
G-20	8X25Z12	2'-6 1/2"
G-21	8X25Z12	22'-7 1/2"
G-22	8X25Z12	13'-4 1/2"
G-23	8X25Z16	8 1/2"
G-24	8X25Z16	18'-6 1/2"

TRIM TABLE FRAME LINE F		
QID	PART	LENGTH
1	BT-101	10'-3"
2	CT-102	10'-3"
3	GU-124	10'-3"
4	GC-104	10'-3"
5	SCB	8"
6	EC-121	8"
7	JT-101	10'-3"
8	HT-101	10'-3"



SIDEWALL SHEETING & TRIM: FRAME LINE F

PANELS: 26 Ga. SX – Light Stone

SCALE: 1/8" = 1'-0"

PROJECT No.
92-1301

DATE: SEPT. 2013

SCALE: AS NOTED

DRAWN BY:
J. WELLS

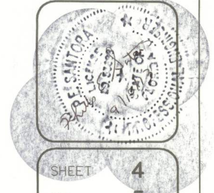
APPROVED BY:
P. SANTORA

REVISIONS:

UNION LASTEEL
LULU BAPTIST CHURCH
SIDEWALL FRAMING
50'-0" X 140'-0" BUILDING
LAKE CITY, FL

NORTHSTAR ENGINEERING SERVICES
(P)334.673.9895 (F)334.673.1846
2431 Hartford Hwy Dothan, AL 36305
web: www.northstarengineering.com

AL CERT. OF AUTH. CA-1896-E
FL CERT. OF AUTH. 26312
GA CERT. OF AUTH. 003129

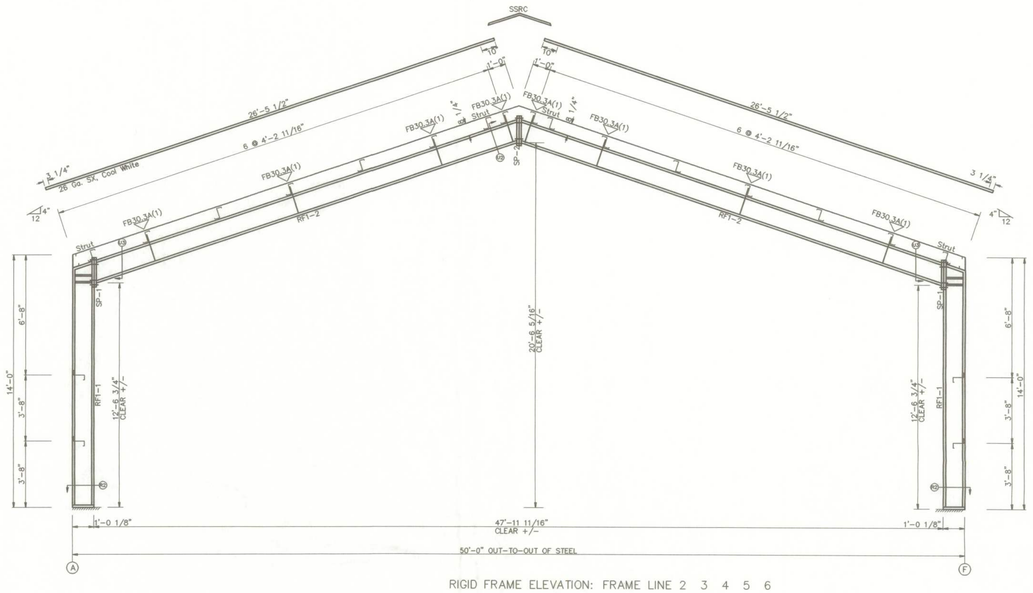


SHEET 4
OF 5

SPLICE BOLT TABLE						
	Qty					
Mark	Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.25
SP-2	4	4	0	A325	0.750	1.75

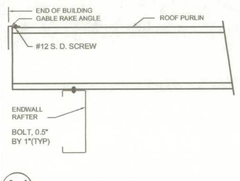
▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A – L2X15X12

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF1-1	W12X19	13'-3 5/16"
RF1-2	W12X19	25'-3 7/16"

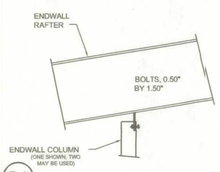


RIGID FRAME ELEVATION: FRAME LINE 2 3 4 5 6

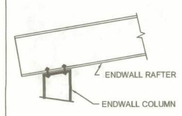
SCALE: 1/4" = 1'-0"



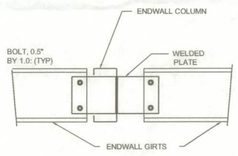
A1 SECTION THRU ENDWALL RAFTER



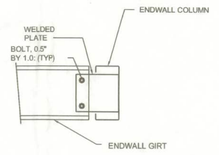
B4 ENDWALL RAFTER TO COLUMN



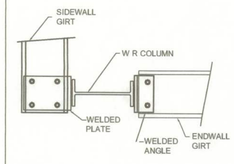
B16 CORNER COLUMN TO ENDWALL RAFTER



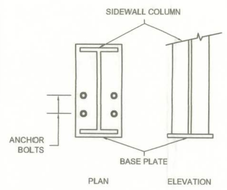
C4 ENDWALL COLUMN TO WALL GIRT



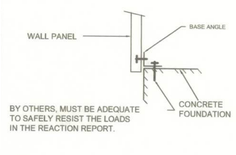
C13 ENDWALL COLUMN TO WALL GIRT



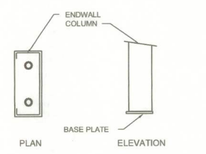
D17 CORNER COLUMN TO WALL GIRT



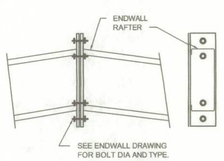
R2 ANCHOR BOLTS AT SIDEWALL COLUMN



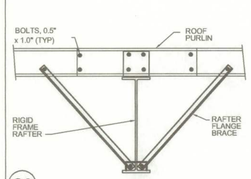
T3 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



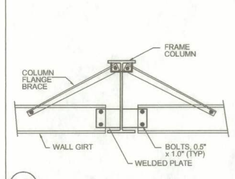
E5 BASE PLATE TO ENDWALL COLUMN OR DOOR JAMB



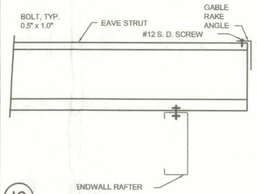
F10 RAFTER SPLICE AT SURFACE CHANGE



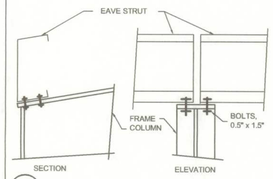
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



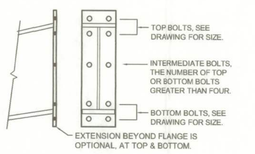
H6 WALL GIRT TO FRAME COLUMN



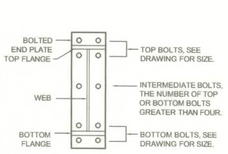
I6 EAVE STRUT TO ENDWALL RAFTER



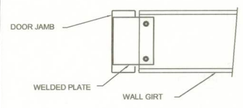
J1 EAVE STRUT TO RIGID FRAME



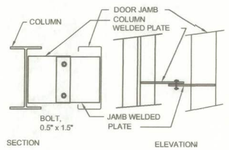
U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



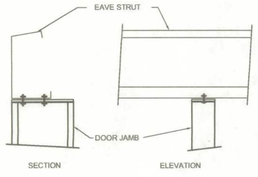
U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



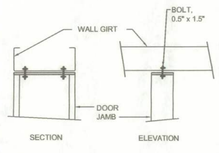
K3 WALL GIRT TO DOOR JAMB



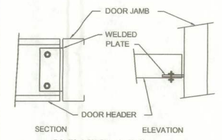
K7 WALL COLUMN TO DOOR JAMB



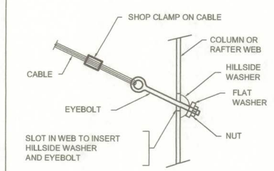
L2 DOOR JAMB TO EAVE STRUT



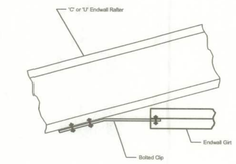
L7 DOOR JAMB TO WALL GIRT



M4 DOOR HEADER TO DOOR JAMB



Q2 DIAGONAL CABLE, EYEBOLT END



W1 SECTION OF ENDWALL GIRT TO RAFTER

PROJECT No.
92-1301

DATE: SEPT. 2013

SCALE: AS NOTED

DRAWN BY:
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APPROVED BY:
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REVISIONS:

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PATRICK SANTORA — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SHEET 5
OF 5