NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	= 40.0
Length (ft)	= 45.0
Eave Height (ft)	= 16.0/ 16.0
Roof Slope (rise/12)	= 2.0/ 2.0
Dead Load (psf)	= 5.0
Collateral Load (psf)	= 1.0
Roof Live Load(psf)	= 20.0
Frame Live Load(psf)	= 12.0
Wind Speed (mph)	= 118.0
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)	= 0.22

ID	Description
1	DL+CL+LL
2	DL+CL+0.75LL+0.45WL1
3	DL+CL+0.75LL+0.45WR1
4	0.60DL+0.60WL2
5	0.60DL+0.60WR2
6	0.60DL-0.60LnWnd1+0.60LWIND1_L2E
7	0.60DL-0.60LnWnd1+0.60LWIND1_R2E
8	0.60DL+0.60WS+0.60LnWnd2
9	0.60DL+0.60WP+0.60LnWnd1
10	0.60DL+0.60WL2+0.60WS
11	0.60DL+0.60WR2+0.60WS

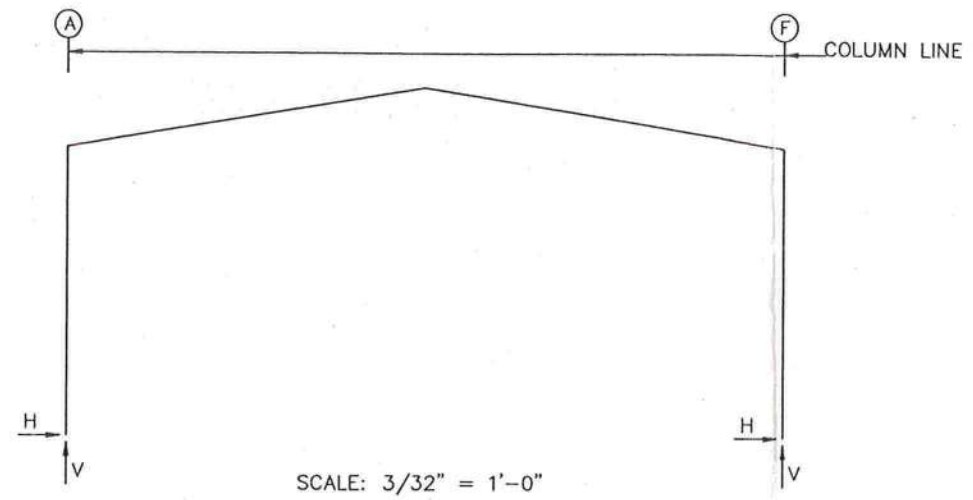
ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
O 4	Jamb	1/2"	A307	2.00
O 28	Endwall	5/8"	A307	3.00
O 8	Frame	3/4"	A307	3.00

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1						69
F_SW	F						56
R_EW	3						48
B_SW	A						41

FRAME LINES: 2



SCALE: 3/32" = 1'-0"

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	3	2.8	4.4	4	-3.2	-3.0	4	0.750	8.000	12.69	0.375	0.0
		1	2.7	8.9	6	0.2	-6.2						
2	F	5	3.2	-3.0	2	-2.8	4.4	4	0.750	8.000	12.69	0.375	0.0
		1	-2.7	8.9	7	-0.2	-6.2						

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_L1 Horiz	Wind_L1 Vert	Wind_R1 Horiz	Wind_R1 Vert	Wind_L2 Horiz	Wind_L2 Vert
2	A	0.4	1.6	0.2	0.6	2.1	6.8	-5.4	-10.8	1.4	-6.4	-5.8	-6.5
2	F	-0.4	1.6	-0.2	0.6	-2.1	6.8	-1.4	-6.4	5.4	-10.8	-1.0	-2.1

Frame Line	Column Line	Wind_R2 Horiz	Wind_R2 Vert	LnWind1 Horiz	LnWind1 Vert	LnWind2 Horiz	LnWind2 Vert	Seismic_L Horiz	Seismic_L Vert	Seismic_R Horiz	Seismic_R Vert	LWIND1_L2E Horiz	LWIND1_L2E Vert
2	A	1.0	-2.1	-0.2	-10.4	-0.6	-6.1	-0.2	-0.1	0.2	0.1	0.0	-1.5
2	F	5.8	-6.5	0.2	-10.4	0.6	-6.1	-0.2	0.1	0.2	-0.1	0.3	-0.3

Frame Line	Column Line	LWIND1_R2E Horiz	LWIND1_R2E Vert	LWIND2_L2E Horiz	LWIND2_L2E Vert	LWIND2_R2E Horiz	LWIND2_R2E Vert
2	A	-0.3	-0.3	0.0	-1.5	-0.3	-0.3
2	F	0.0	-1.5	0.3	-0.3	0.0	-1.5

ENDWALL COLUMN REACTIONS(k)

MAXIMUM VERTICAL DL+CL+LL = 4.4
MAXIMUM VERTICAL DL+WL = -3.5
MAXIMUM HORIZONTAL DL+WL = 2.4

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRESAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FLORIDA STATUTES 2009 CHAPTER 553.79 AND CHAPTER 633.

Phillip E Sater.
4-11-12

PROJECT No. 92-1204
DATE: APRIL, 2012
SCALE: AS NOTED

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

REVISIONS:

UNION LASTEEL METALBUILDINGS
PAUL GREEN
REACTIONS
40'-0" X 45'-0" BUILDING
LAKE CITY, FL

NORTHSTAR ENGINEERING SERVICES
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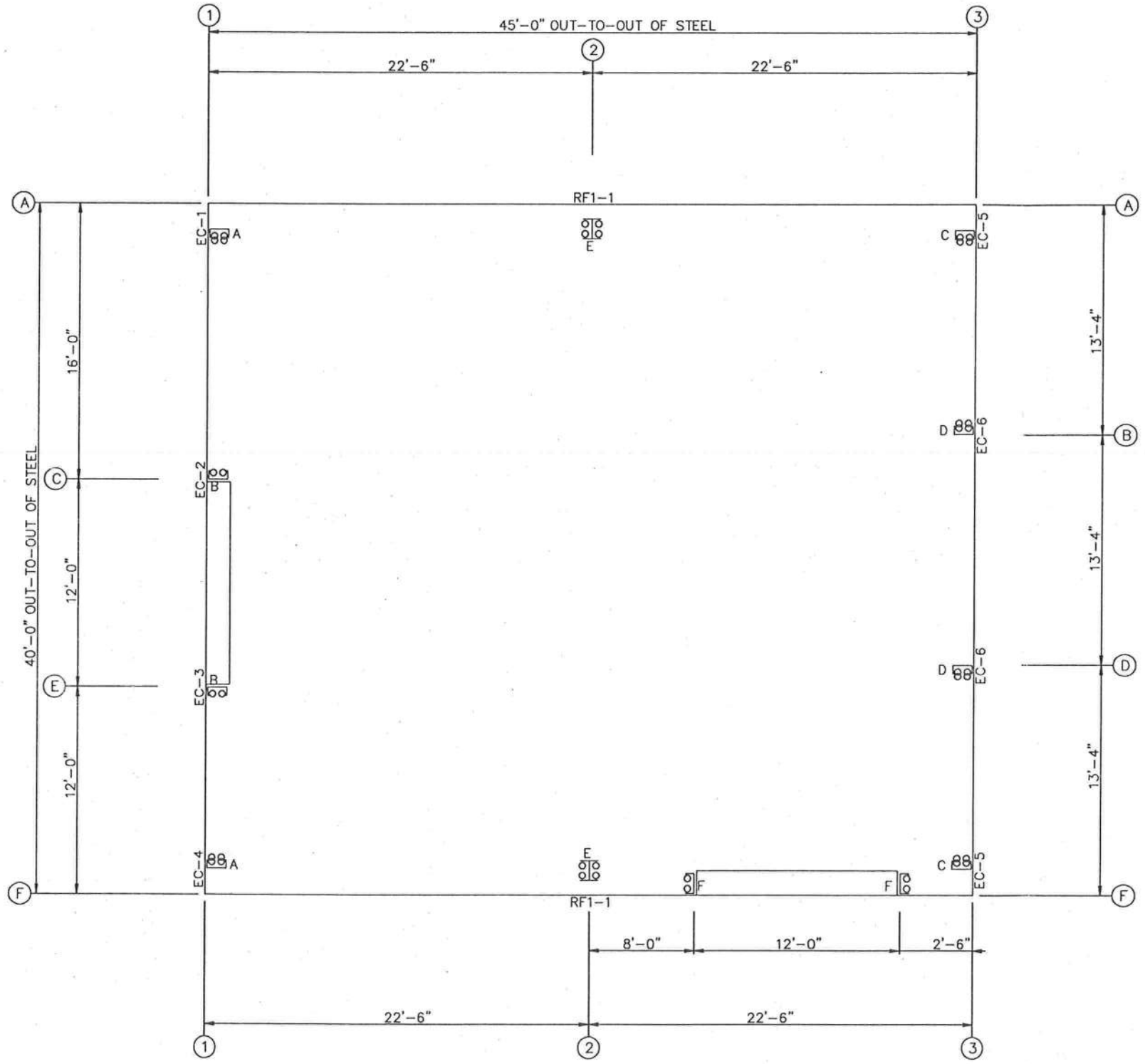
web: www.northstarengineering.com

AL CERT. OF AUTH. CA-1898-E
FL CERT. OF AUTH. 26312
GA CERT. OF AUTH. 003129

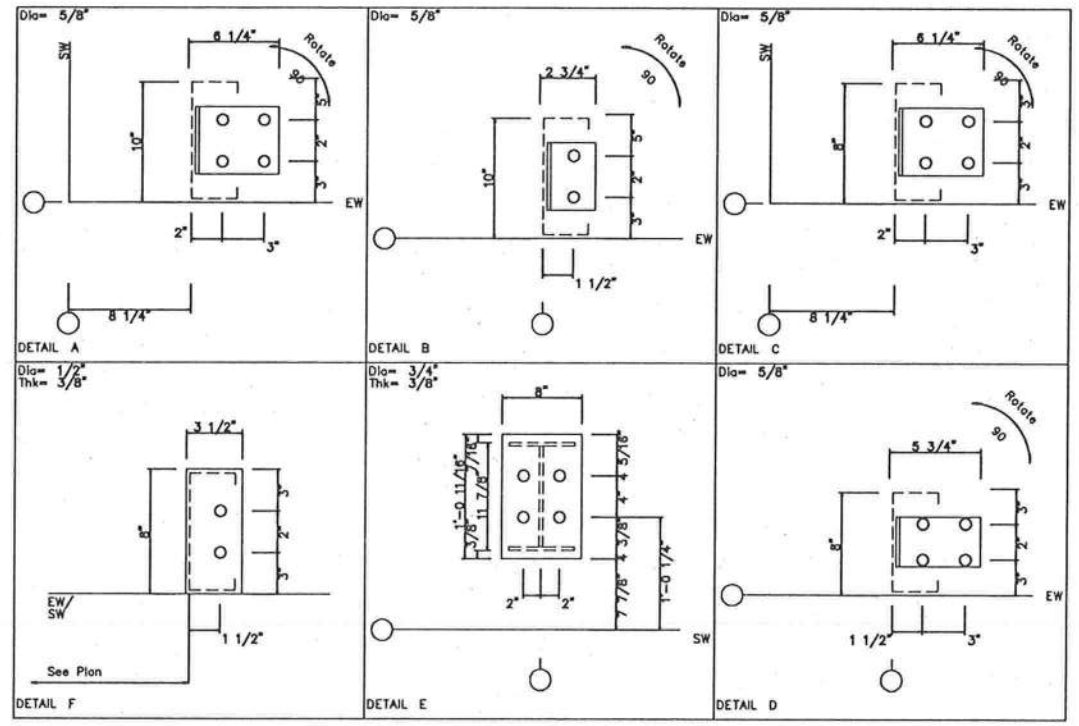
SHEET 1 OF 9



ANCHOR BOLT PLAN

NOTE: All Base Plates @ 100'-0" (U.N.)

SCALE: 1/8" = 1'-0



PROJECT No. 92-1204

DATE: APRIL 2012

SCALE: AS NOTED

DRAWN BY: J. WELLS

APPROVED BY: P. SANTORA

REVISIONS:

UNION LASTEEL METAL BUILDINGS
PAUL, GREEN
A.B. LAYOUT
40'-0" X 45'-0" BUILDING
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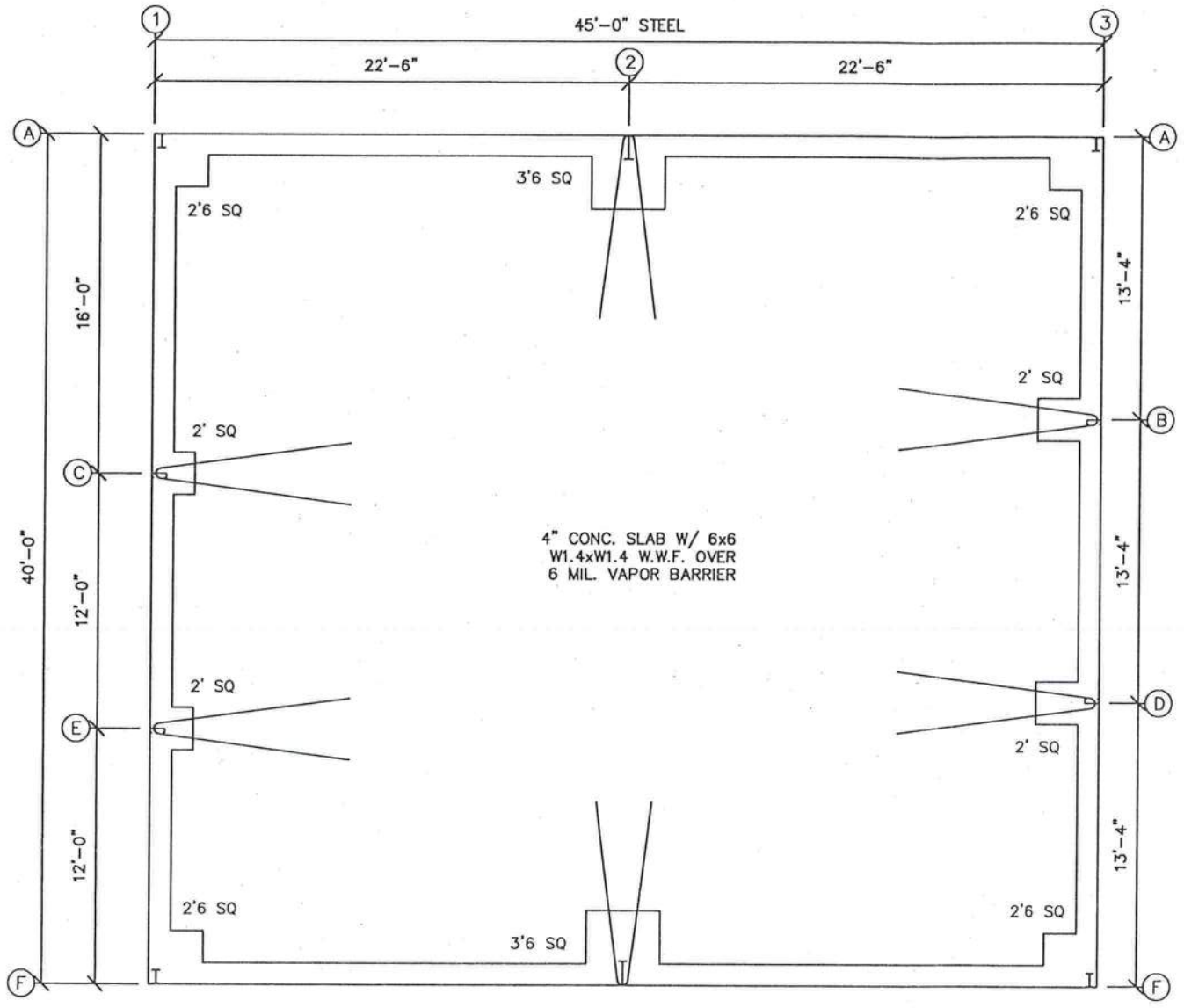
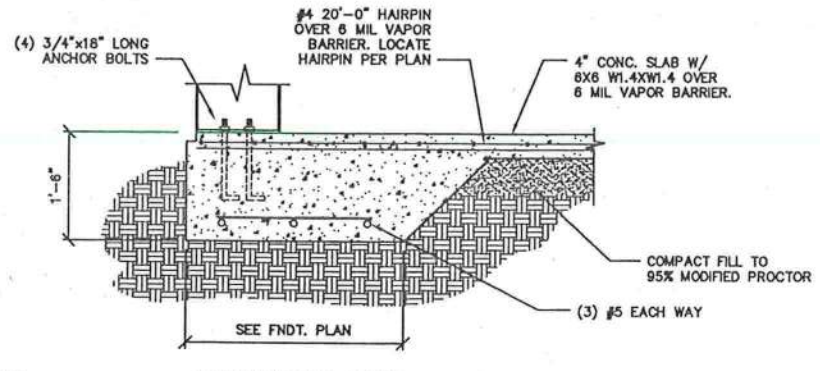
SHEET 2
OF 9

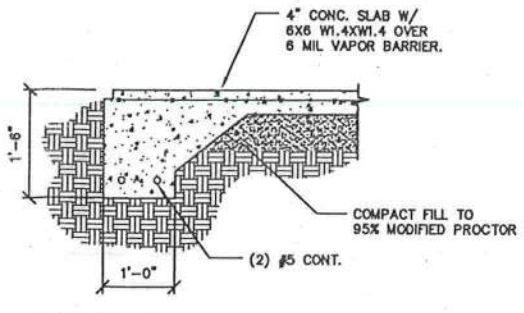
Phillip E Sater.
4-11-12



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



COLUMN FOOTER DETAIL
SCALE: 3/8"=1"



CONT. FOOTER DETAIL
SCALE: 3/8"=1"

Phillips & Slater
4-11-12

PROJECT No. 92-1204
DATE: APRIL, 2012
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DRAWN BY: J. WELLS
APPROVED BY: P. SANTORA

REVISIONS:

UNION LASTEEL METAL BUILDINGS
PAUL GREEN
FOUNDATION PLAN
40'-0" X 45'-0" BUILDING
LAKE CITY, FL

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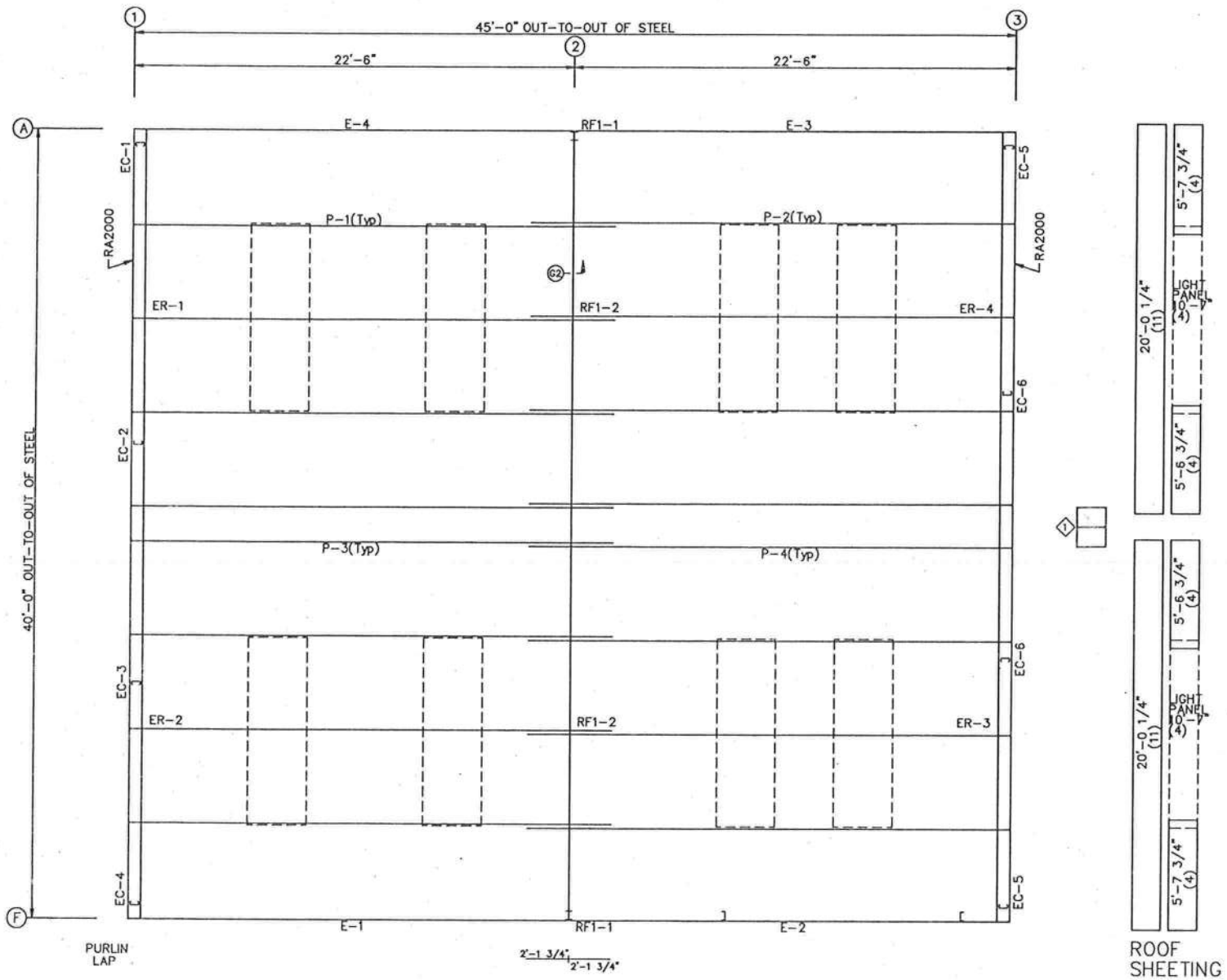
SHEET 3
OF 9



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0

ROOF SHEETING
PANELS: 26 Ga. SX – NEED COLOR

MEMBER TABLE ROOF PLAN			
QUAN	MARK	PART	LENGTH
4	P-1	8X25Z16	24'-7 1/2"
4	P-2	8X25Z16	24'-7 1/2"
4	P-3	8X25Z16	24'-7 1/2"
4	P-4	8X25Z16	24'-7 1/2"
1	E-1	8E14LOW	22'-5 1/2"
1	E-2	8E14LOW	22'-5 1/2"
1	E-3	8E14LOW	22'-5 1/2"
1	E-4	8E14LOW	22'-5 1/2"

TRIM TABLE ROOF PLAN			
◇ID	QUAN	PART	LENGTH
1	15	SSRC	3'-0"

Phillip E Slater
4-11-12

PROJECT No. 92-1204
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REVISIONS:

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PAUL GREEN
ROOF PLAN
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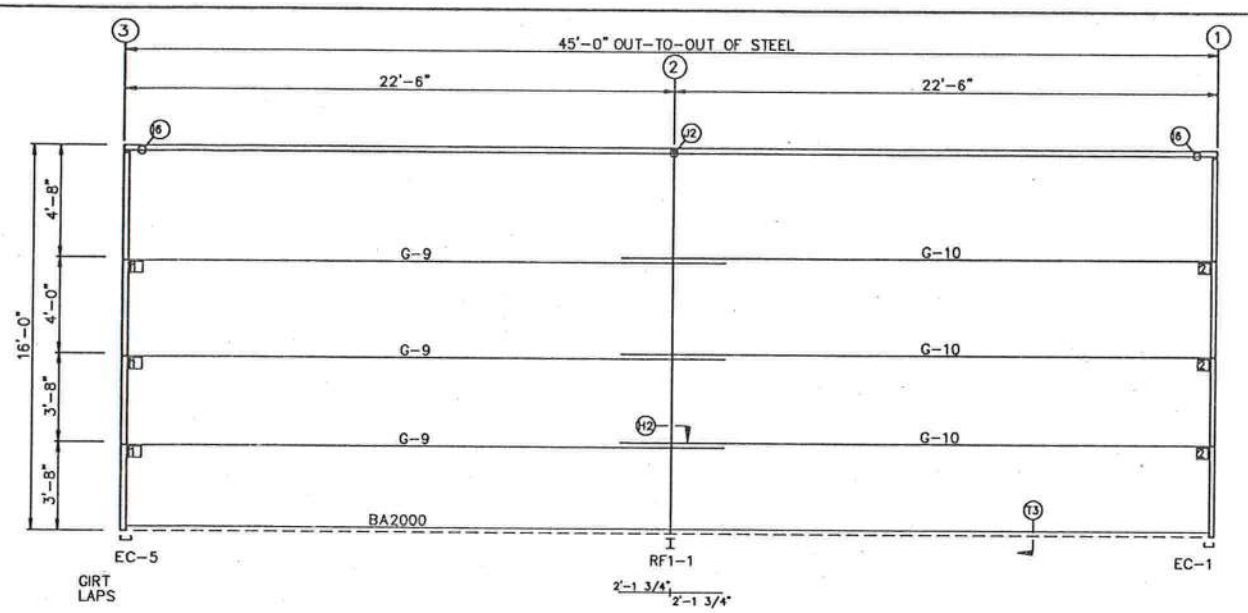
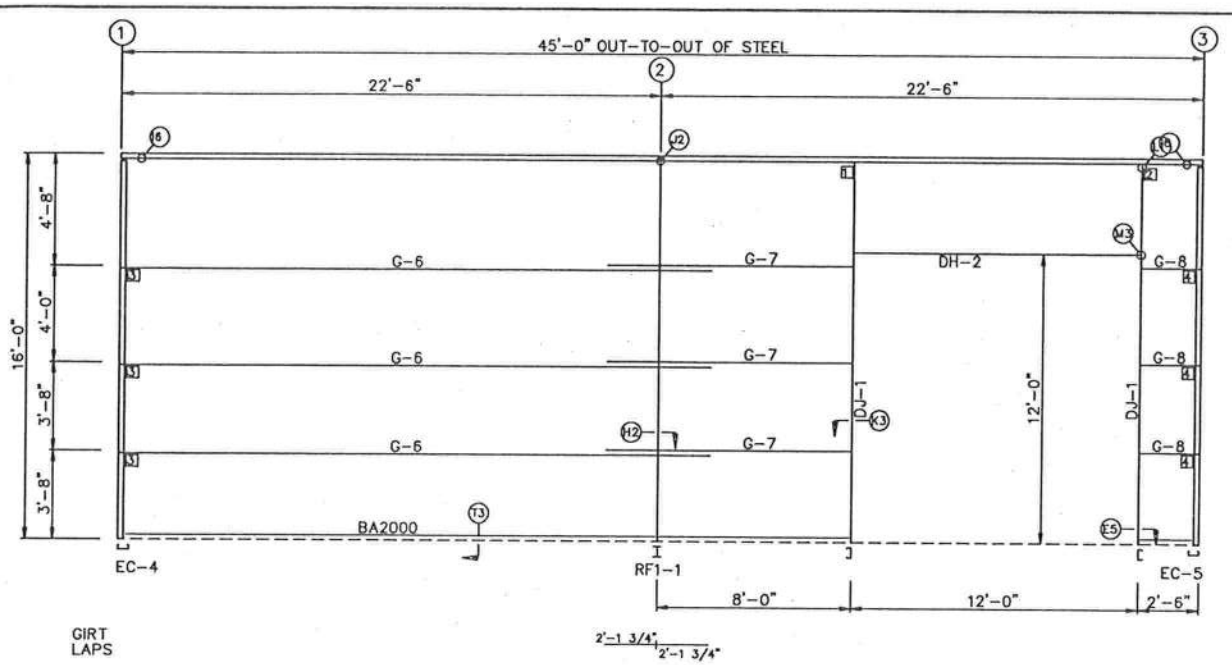
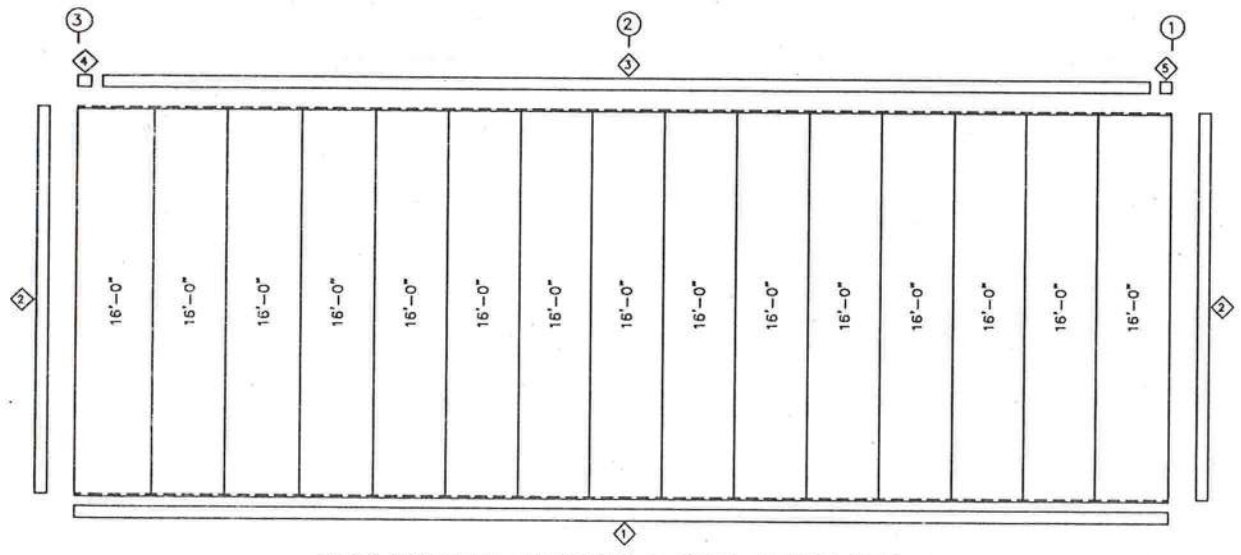
SHEET 4
OF 9



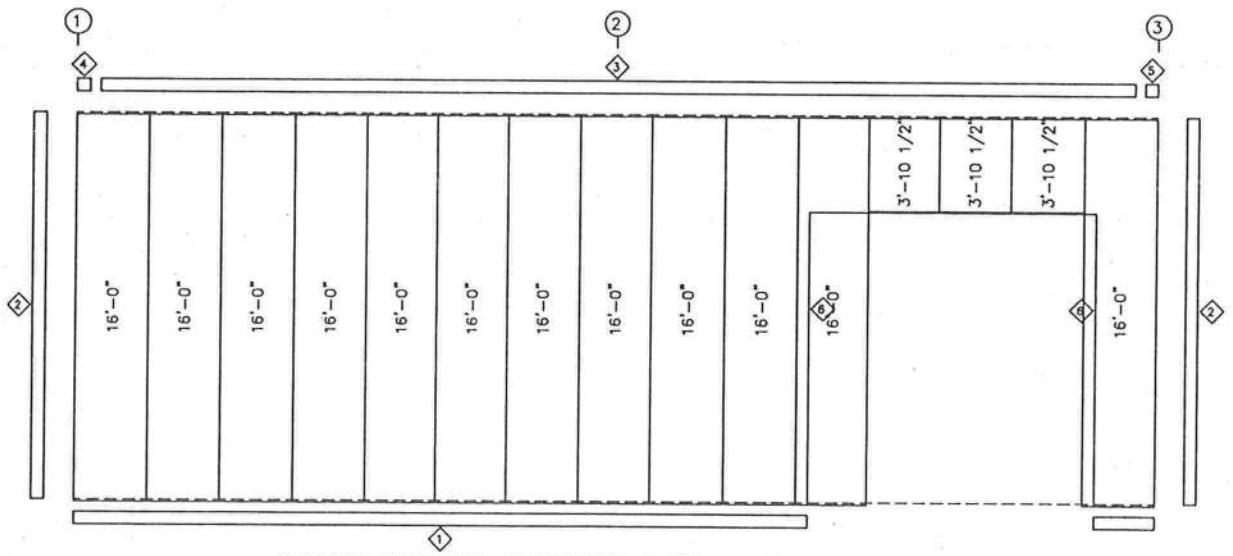
BACK SIDEWALL FRAMING: FRAME LINE A
SCALE: 1/8" = 1'-0



FRONT SIDEWALL FRAMING: FRAME LINE F
SCALE: 1/8" = 1'-0



BACK SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. SX – NEED COLOR
SCALE: 1/8" = 1'-0



FRONT SIDEWALL SHEETING & TRIM: FRAME LINE F
PANELS: 26 Ga. SX – NEED COLOR
SCALE: 1/8" = 1'-0

MEMBER TABLE FRAME LINE A			
QUAN	MARK	PART	LENGTH
3	G-9	8X25Z16	24'-7 1/2"
3	G-10	8X25Z16	24'-7 1/2"

TRIM TABLE FRAME LINE A			
◇ID	QUAN	PART	LENGTH
1	5	BT-101	10'-1"
2	4	CT-102	10'-1"
3	5	ET-702	10'-1"
4	1	SRECL	8"
5	1	SRECR	8"

CONNECTION PLATES FRAME LINE A		
□ID	QUAN	MARK/PART
1	3	AK200
2	3	d1

Phillip E Sator-
4-11-12

MEMBER TABLE FRAME LINE F			
QUAN	MARK	PART	LENGTH
2	DJ-1	8X35C14	15'-3 3/4"
1	DH-2	8X35C14	12'-0"
3	G-6	8X25Z16	24'-7 1/2"
3	G-7	8X25Z16	9'-9 1/2"
3	G-8	8X25Z16	2'-1 1/2"

TRIM TABLE FRAME LINE F			
◇ID	QUAN	PART	LENGTH
1	4	BT-101	10'-1"
2	4	CT-102	10'-1"
3	5	ET-702	10'-1"
4	1	SRECL	8"
5	1	SRECR	8"
6	4	JT-101	7'-2"

CONNECTION PLATES FRAME LINE F		
□ID	QUAN	MARK/PART
1	1	e1
2	1	e2
3	3	d1
4	3	AK200

PROJECT No. 92-1204
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SCALE: AS NOTED
DRAWN BY: J. WELLS
APPROVED BY: P. SANTORA
REVISIONS:

UNION LASTEEL METALBUILDINGS
PAUL GREEN
SIDEWALL FRAMING
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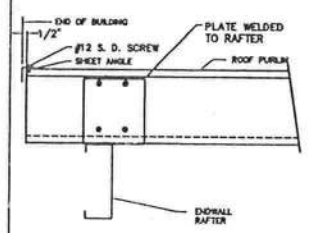
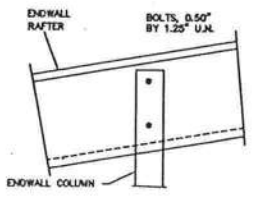
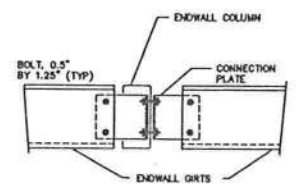
SHEET 5
OF 9



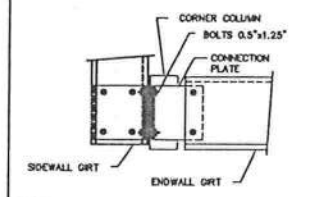
A5 SECTION THRU ENDWALL RAFTER



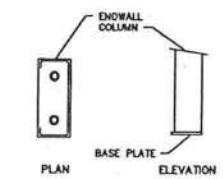
B8 ENDWALL RAFTER TO COLUMN



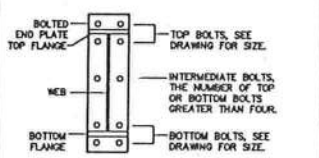
C1 ENDWALL COLUMN TO WALL GIRT



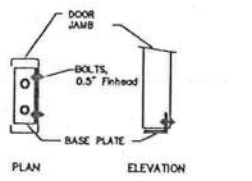
D1 CORNER COLUMN TO WALL GIRT



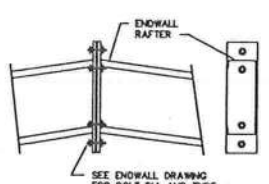
E5 BASE PLATE TO ENDWALL COLUMN OR DOOR JAMB



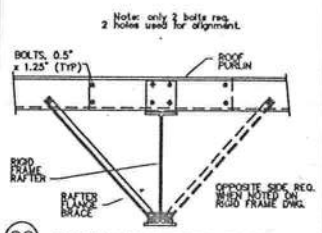
U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



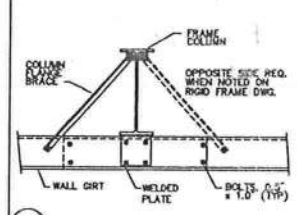
E6 BASE PLATE FOR DOOR JAMB



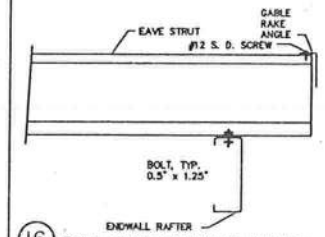
F10 RAFTER SPLICE AT SURFACE CHANGE



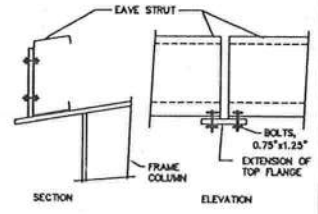
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



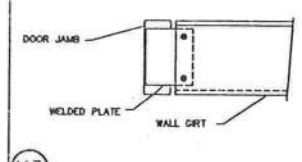
H2 WALL GIRT TO FRAME COLUMN



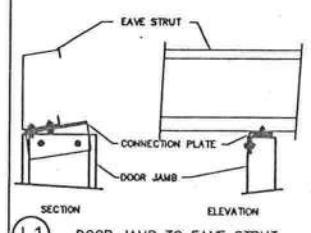
I6 EAVE STRUT TO ENDWALL RAFTER



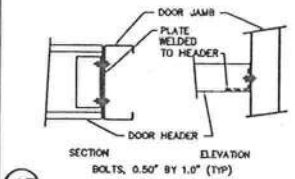
J2 EAVE STRUT TO RIGID FRAME



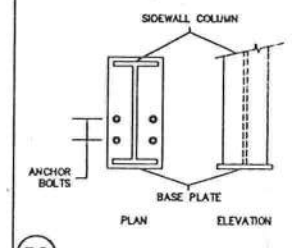
K3 WALL GIRT TO DOOR JAMB



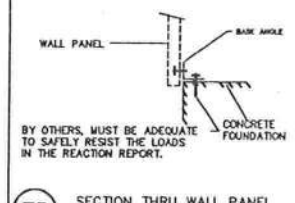
L1 DOOR JAMB TO EAVE STRUT



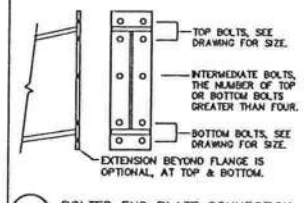
M3 DOOR HEADER TO DOOR JAMB



R2 ANCHOR BOLTS AT SIDEWALL COLUMN



T3 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK

Phillip E Santora
4-11-12

PROJECT No. 92-1204
DATE: APRIL, 2012
SCALE: AS NOTED

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APPROVED BY: P. SANTORA

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SHEET 9
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