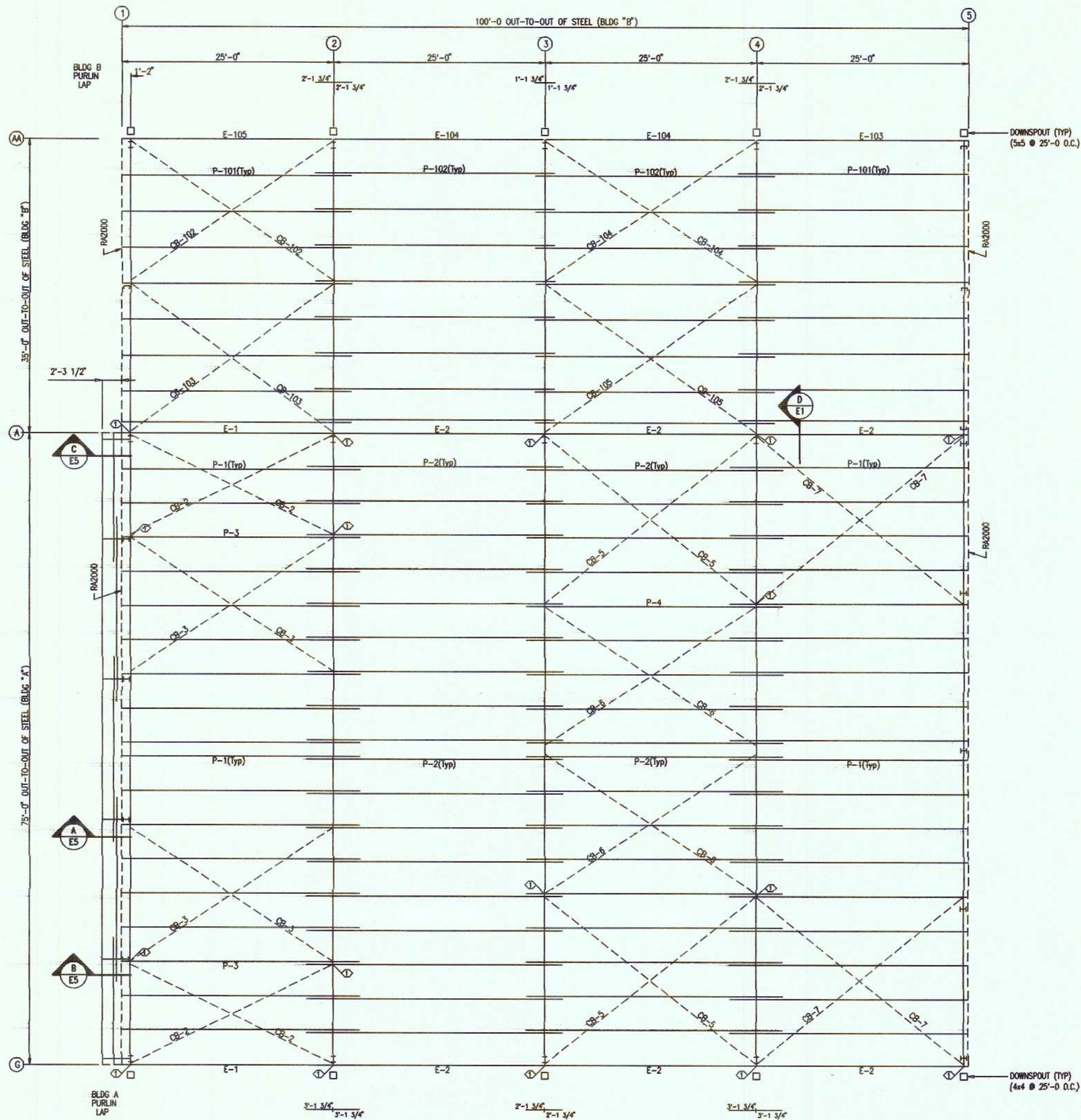
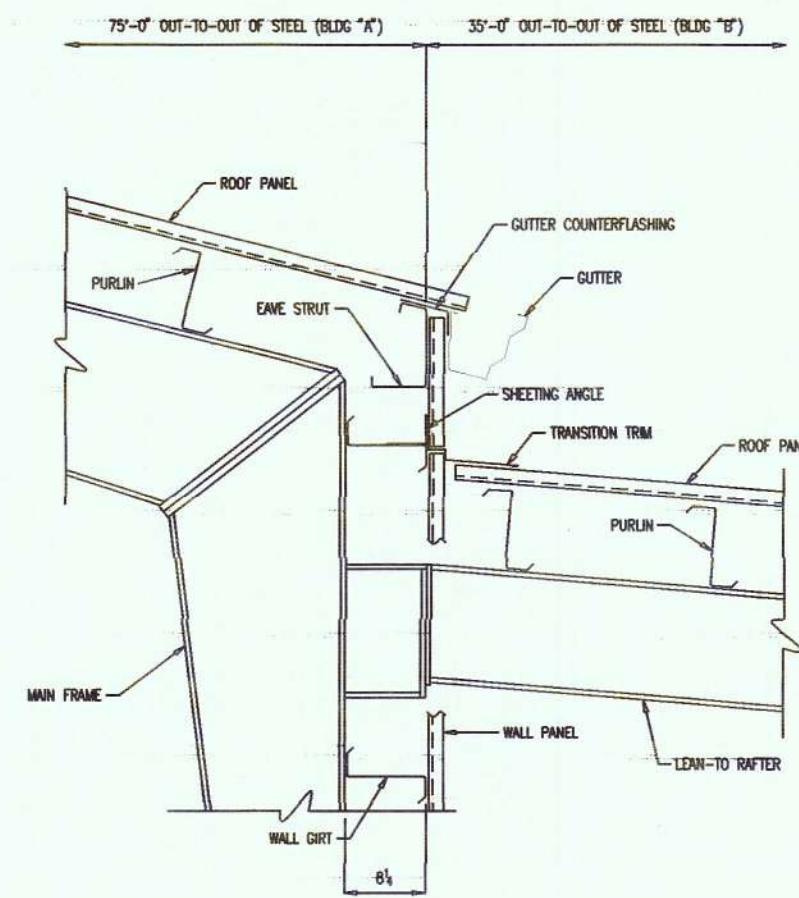




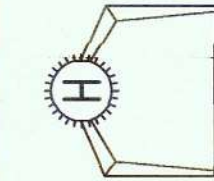
ROOF FRAMING PLAN



SECTION "D"

SPECIAL BOLTS					
Q ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A307	1/2"	1 1/4"	0

MEMBER TABLE		MEMBER TABLE	
ROOF PLAN - BLDG A		ROOF PLAN - BLDG B	
MARK	PART	MARK	PART
P-1	10X25Z16	P-101	10X25Z14
P-2	10X25Z16	P-102	10X25Z14
P-3	10X25Z14		
P-4	10X25Z14		
E-1	10E14	E-103	10E12
E-2	10E14	E-104	10E12
CB-2	0.31_CBL	E-105	10E12
CB-3	0.25_CBL	CB-102	0.25_CBL
CB-5	0.31_CBL	CB-103	0.25_CBL
CB-6	0.25_CBL	CB-104	0.25_CBL
CB-7	0.25_CBL	CB-105	0.25_CBL



HORIZON ENGINEERING & CONSULTING INC.
 MASSUD SAGHAFI
 PHONE: 281-241-3120

KATHY PETERSEN McDONALD Hangar Building

618 Country Road
 ANGELTON, TEXAS 77515

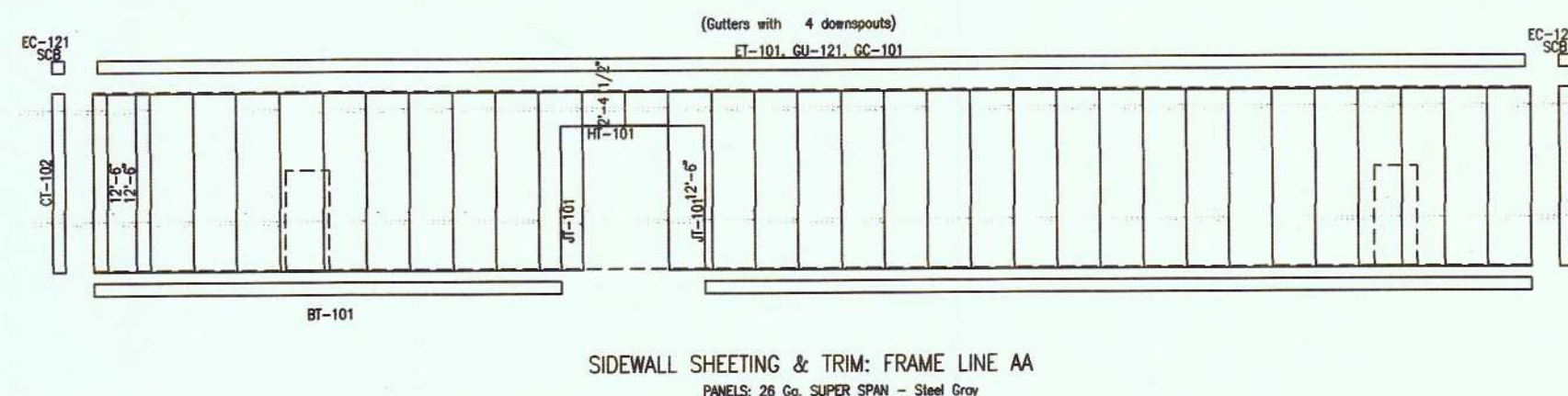
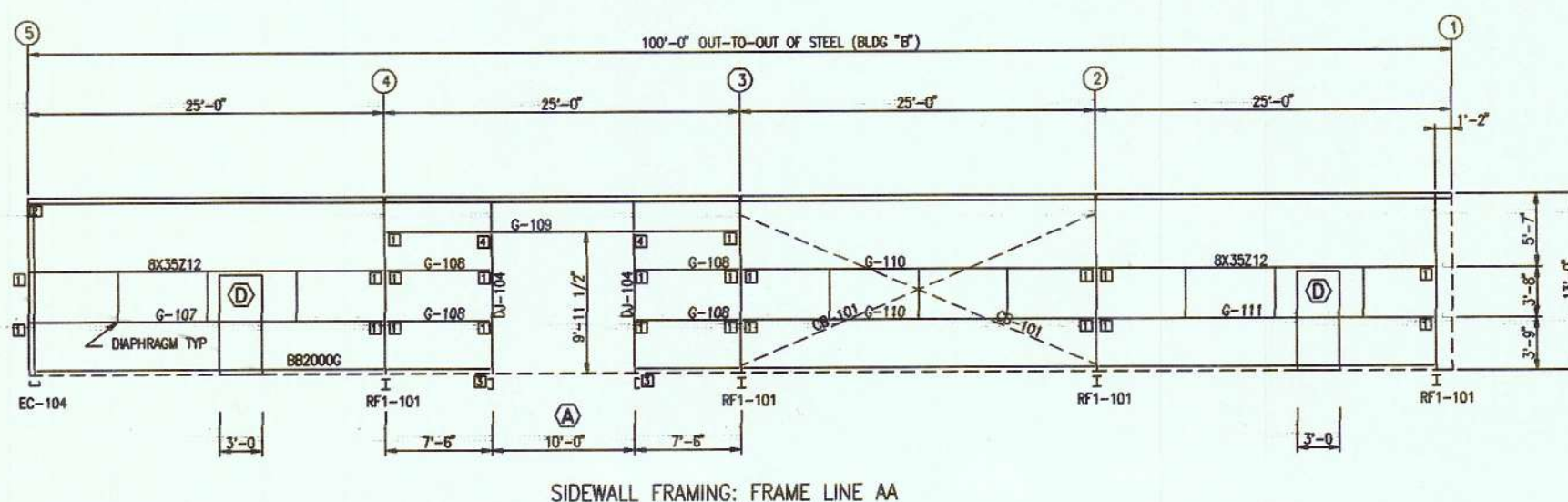
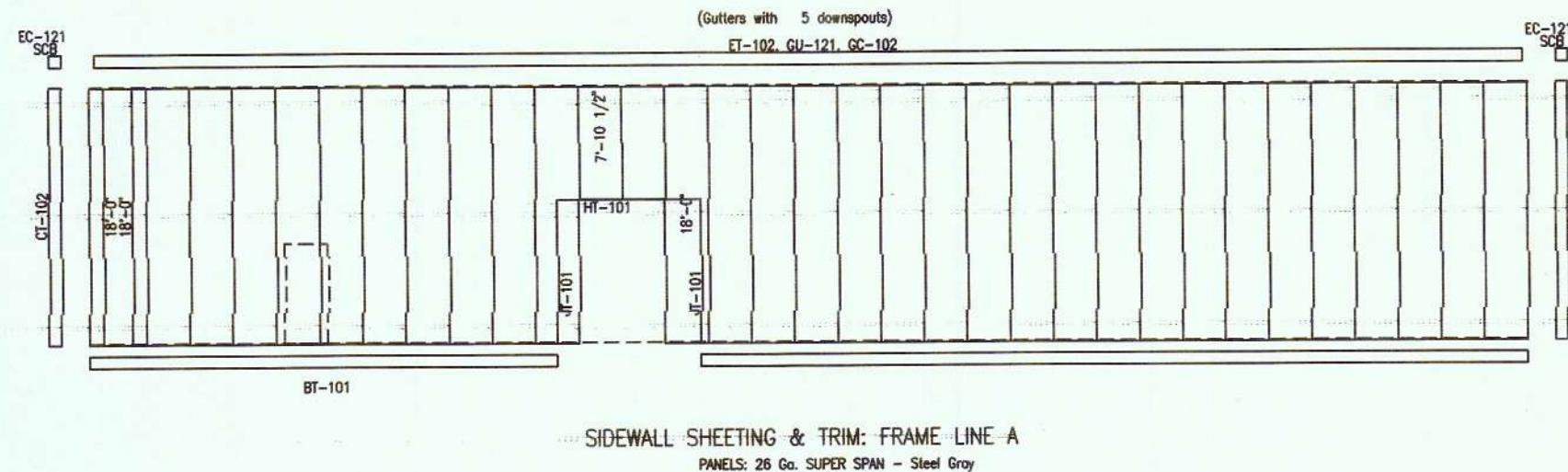
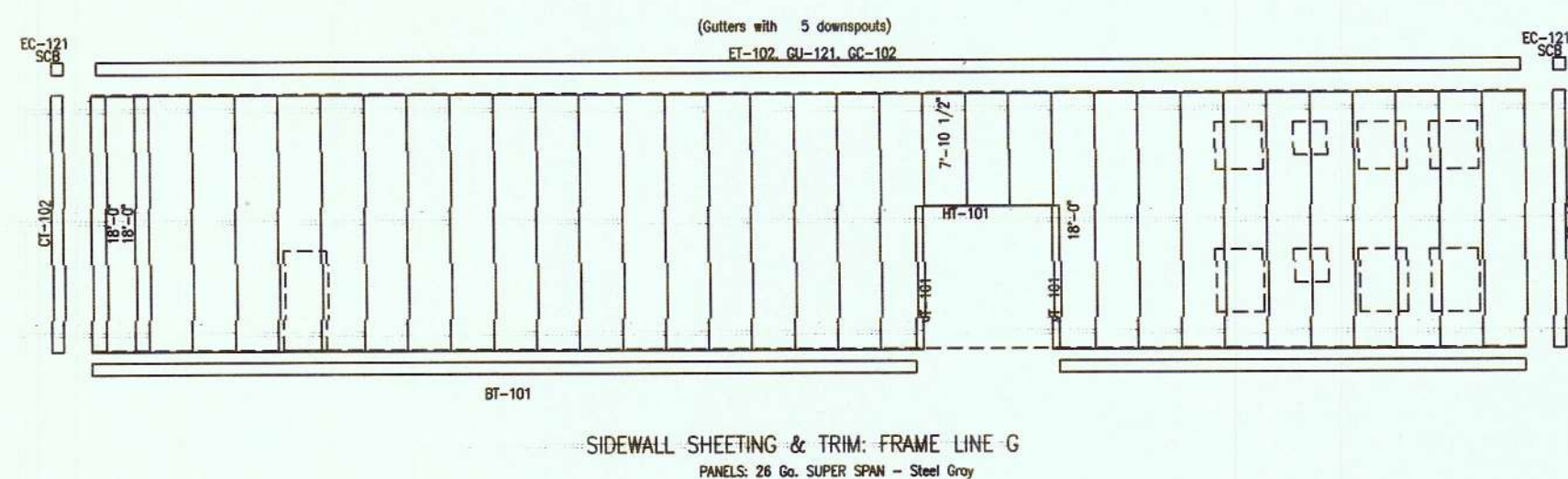
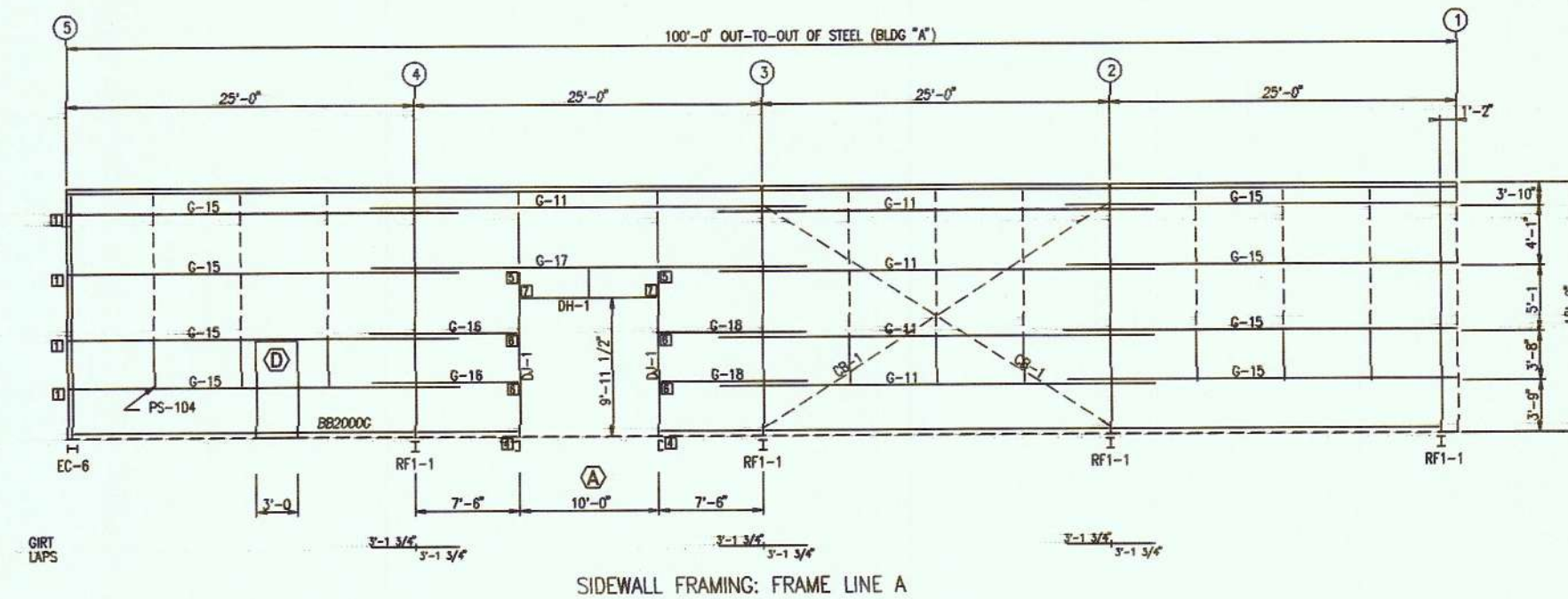
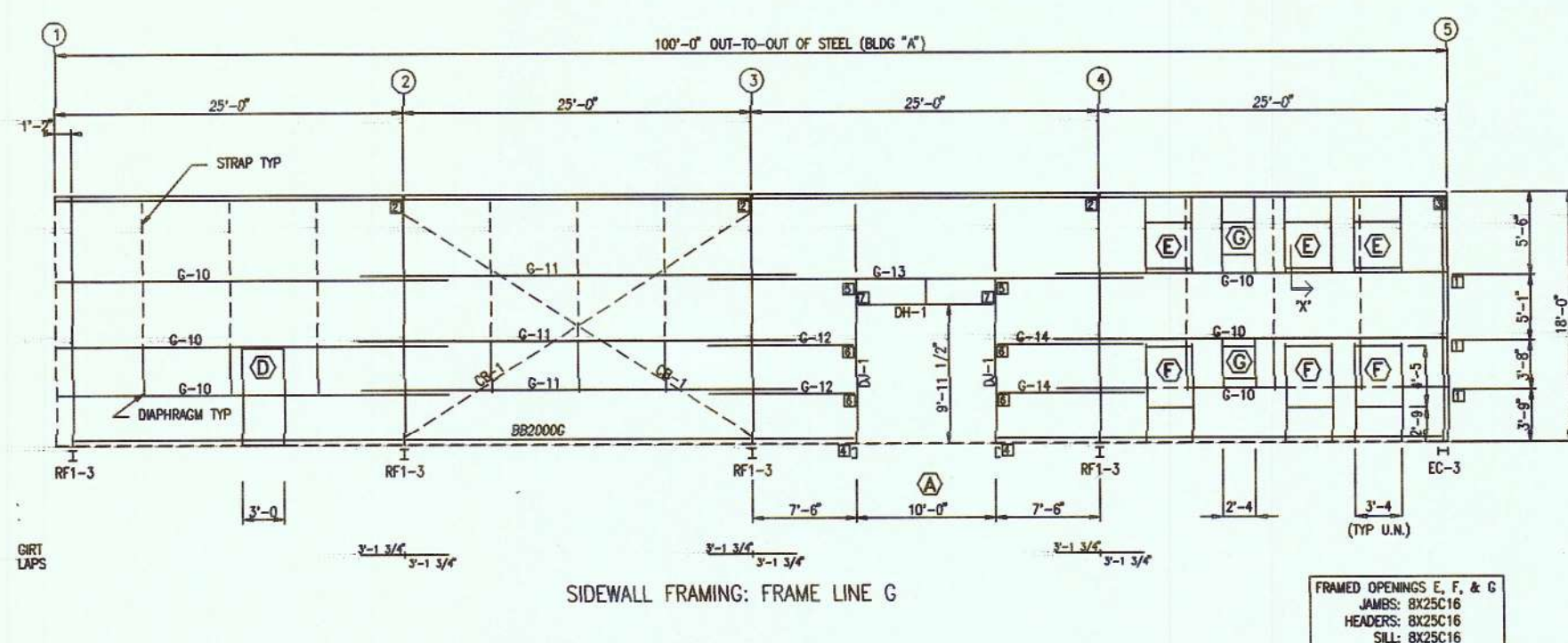
ROOF FRAMING PLAN

A	FOR APPROVAL	9/5/06
D	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name	Sheet
Roofdwg	E1
Date	Sept. 05, 2006
Scale	N/A

NOTE
 The zero collateral and zero sprinkler load designated within the contract specifications does not allow for any type of suspended system (e.g., lights, duct work, piping, etc., insulation types other than 3 inch PSK standard duty fiberglass blanket insulation). Suspension of any load insulating system in the building is prohibited.

DESIGN INFORMATION			
BUILDING CODE:	IBC 2003	Ground/Roof Snow Load:	0
DEAD LOAD:	Metal Bldg Only	SNOW EXPOSURE:	N/A
COLLATERAL LOAD:	(psf)	SEISMIC USE GROUP:	I
SPRINKLER LOAD:	(psf)	SPECTRAL RESP. ACCEL. S _{0.098}	0.098
ROOF LIVE LOAD:	(psf)	SPECTRAL RESP. SD ₁	0.06
FRAME LIVE LOAD:	Reduction	SITE CLASS:	D
WIND LOAD:	(psf)	DIRECTION:	LATERAL / LONGITUDINAL
WIND IMPORTANCE:	1.00	STRUCTURAL SYSTEM:	STRUCTURAL STEEL SYSTEMS NOT
WIND EXPOSURE:	B	SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE:	
WIND COND.:	Closed	RESPONSE MODIFICATION (R):	3.0
INTERNAL PRES. COEFF.:	±0.18	DEFLECTION AMPLIFICATION (Cd):	3.0
EDGE ZONE WIDTH:	(feet)	ANALYSIS:	EQUIVALENT LATERAL FORCE PROCEDURE



GENERAL SHEETING & TRIM NOTES

- Refer to erection drawings for rake angle locations.
- Roof member screws are at 12" o.c. Eave and top and peak screws are as shown.
- Wall member screws are at 8" o.c. at the base member and 12" o.c. of all remaining members.
- Roof stitch screws are located at each member with two between members (20" max. spacing).
- Wall stitch screws are located at each member with one between members (20" max. spacing).
- Skylight stitch screws are at 6" o.c.
- Short endwall panels at centerline of bldg. unless noted.
- Gutter, rain, & eave trim top 2". All other trim top 1".
- Field cut or lap panels as required to fit.
- Field cut panels for all openings.
- Pop rivet gutter counterflashing to wall panel on 3'-0" centers and caulk all laps.
- Gutter support strap spacing: Super Span 3'-0", Super Seam 2'-0", Weather Lok-18 2'-8".
- Corner and/or peak bases are not furnished with special rakes or gutter profiles. Field miter as req'd.
- Downspout strap spacing: 4" x 4" 8'-0" o.c. maximum, larger downspouts 5'-0" o.c. maximum.
- Not-rotted or built-up members must be pre-drilled before attaching members screws.
- Metal sheathing must be swept from the roof each day to avoid surface rusting.
- Windows and louvers must be installed before sheathing the walls.
- For clarity, lugs, sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

GENERAL FRAMING NOTES

- Angles are marked by their length in feet and inches.
- Field cut or lap angles as required to fit.
- Flange braces are marked by their length in decimal inches.
- Outside flange of girt turns down unless noted.
- Endwall girts and eave struts do not lap.
- Field cut and self-top girts at walk doors.
- Field steel girts for brace rods or cables.
- Field locate windows and walk doors.
- Field weld all splices at 14 gauge valley gutters.
- Field bolt AK400 base clip to endwall columns: (2) 5/8" x 1-1/2" A325 bolts II (1) AK400 req'd (2) 5/8" x 1-3/4" A325 bolts II (2) AK400 req'd
- Locate top of roof framed openings flush with the pan of the roof panel.
- Some field drilling at framed openings may be required. Field drill 5/16" diameter holes.
- For clarity, lugs, sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

CONNECTION PLATES	
FRAME LINE G	
ID	MARK/PART
1	d1
2	k1
3	s1
4	AK400
5	j1
6	AK200
7	AB201

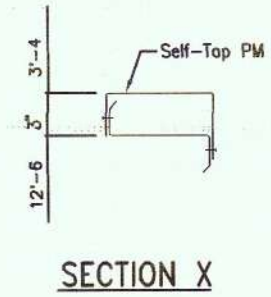
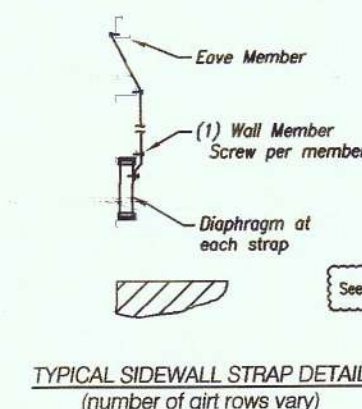
MEMBER TABLE	
FRAME LINE G	
MARK	PART
DJ-1	8X25C14
DH-1	8X25C14
G-10	8X25Z14
G-11	8X25Z16
G-12	8X25Z14
G-13	8X25Z14
G-14	8X25Z14
CB-1	0.38 CBL

CONNECTION PLATES	
FRAME LINE A	
ID	MARK/PART
1	d1
2	s1
3	k1
4	AK400
5	j1
6	AK200
7	AB201

MEMBER TABLE	
FRAME LINE A	
MARK	PART
DJ-1	8X25C14
DH-1	8X25C14
G-11	8X25Z16
G-12	8X25Z16
G-13	8X25Z16
G-14	8X25Z16
CB-1	0.38 CBL

CONNECTION PLATES	
FRAME LINE AA	
ID	MARK/PART
1	AK200
2	s1
3	AK400
4	j2

MEMBER TABLE	
FRAME LINE AA	
MARK	PART
DJ-104	8X25C14
G-107	8X25Z14
G-108	8X25Z16
G-109	8X40C12
G-110	8X25Z12
G-111	8X25Z14
CB-101	0.31 CBL



HORIZON ENGINEERING & CONSULTING INC.
 MASOUD SAGHAFI
 PHONE: 281-241-3120

Firm Name and Address

KATHY PETERSEN McDONALD
Hangar Building

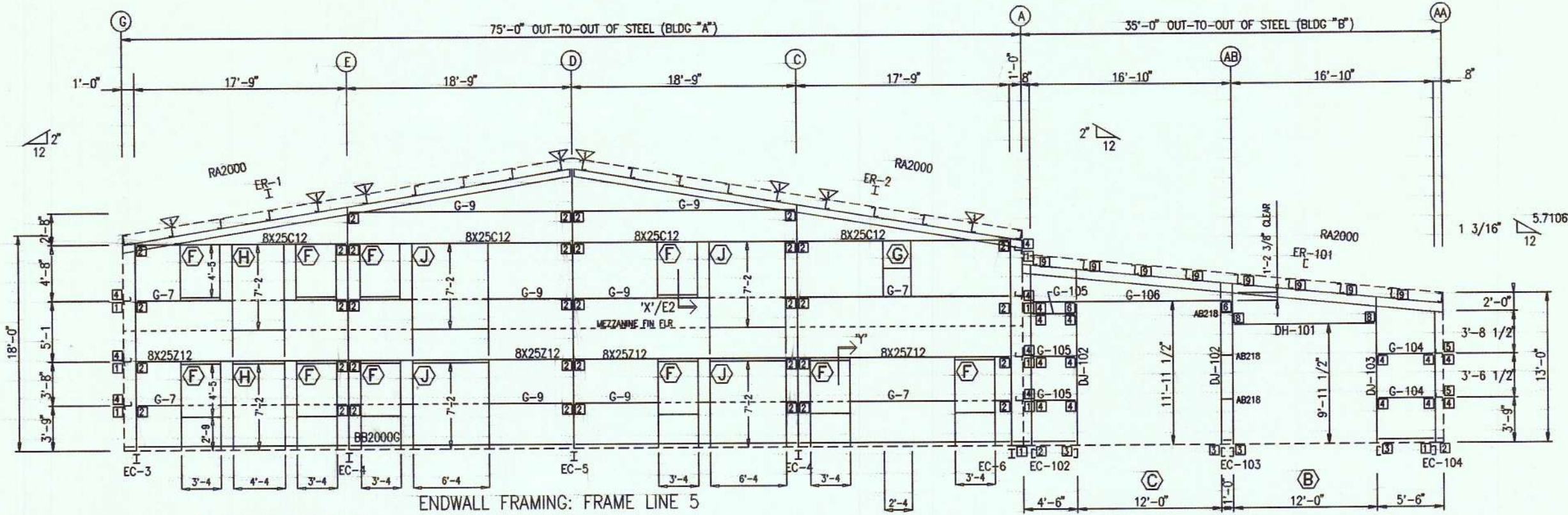
618 Country Road
 ANGELTON, TEXAS 77515

SIDEWALL FRAMING

A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

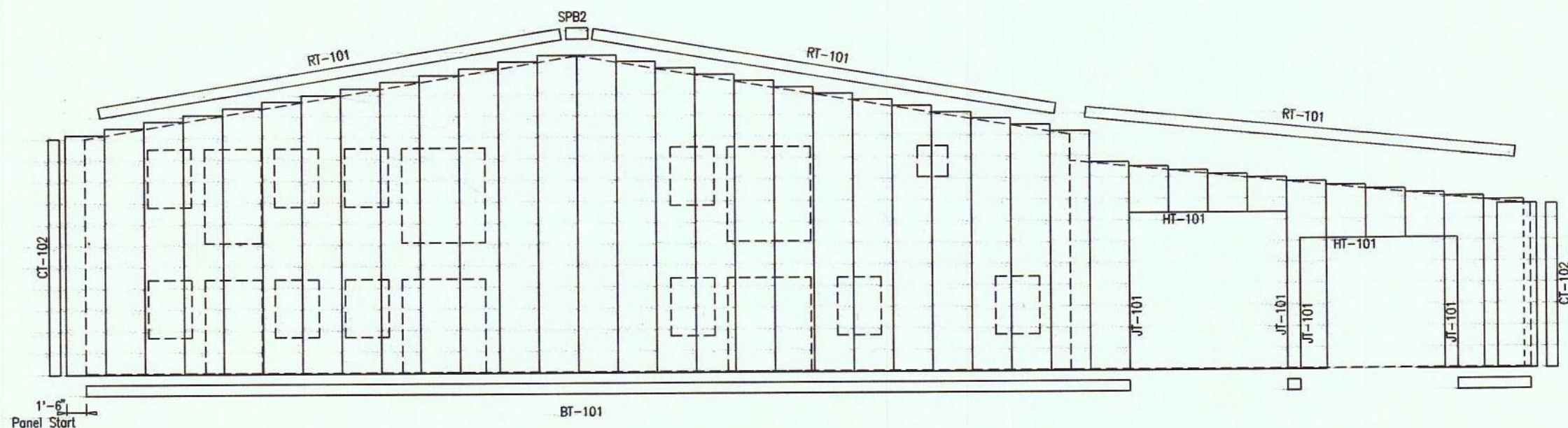
File Name	SWDWG-F
Date	Sept. 05, 2006
Scale	N/A

E2



FRAMED OPENINGS F, G, H, J
JAMBS: 8X25C16
HEADERS: 8X25C16
SILL: 8X25C16

NOTE
Low headroom hardware may be
required for overhead doors.



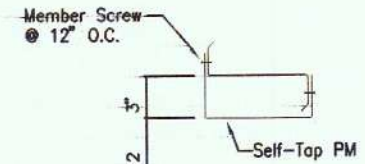
ENDWALL SHEETING & TRIM: FRAME LINE 5
PANELS: 26 Ga. SUPER SPAN - Steel Gray

GENERAL SHEETING & TRIM NOTES

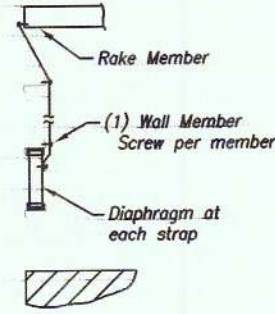
- Refer to erection drawings for rake angle locations.
- Roof member screws are at 12" o.c. Eave and lap and peak screws are as shown.
- Wall member screws are at 8" o.c. at the base member and 12" o.c. at all remaining members.
- Roof stitch screws are located at each member with two between members (20" max. spacing).
- Wall stitch screws are located at each member with one between members (20" max. spacing).
- Skylight stitch screws are at 8" o.c.
- Short endwall panels at centerline of bldg. unless noted.
- Outlet, rake, & eave trim top 2". All other trim top 1".
- Field cut or lap panels as required to fit.
- Field cut panels for all openings.
- Pop rivet gutter counterflashing to wall panel on 3'-0" centers and caulk all laps.
- Outlet support strap spacing: Super Span 3'-0", Super Seam 2'-0", Weather Lok-16 2'-5".
- Corner and/or peak boards are not furnished with special rake or gutter profiles. Field rakes as req'd.
- Downsloped strap spacing: 4" x 4" 6'-0" o.c. maximum, larger downslopes 5'-0" o.c. maximum.
- Hot-rolled or built-up members must be pre-drilled before attaching members screws.
- Metal shavings must be swept from the roof each day to avoid surface rusting.
- Windows and louvers must be installed before sheeting the walls.
- For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

GENERAL FRAMING NOTES

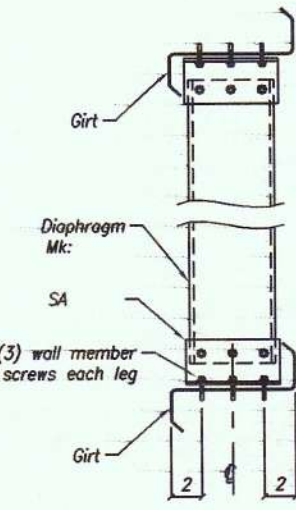
- Angles are marked by their length in feet and inches.
- Field cut or lap angles as required to fit.
- Flange braces are marked by their length in decimal inches.
- Outside flange of girt turns down unless noted.
- Endwall girts and eave struts do not lap.
- Field cut and self-lap girts at walk doors.
- Field skirt girts for brace rods or cables.
- Field locate windows and walk doors.
- Field weld all splices at 14 gauge valley gutters.
- Field bolt AK400 base dip to endwall columns.
- Field 5/8" x 1-1/2" A325 bolts if (1) AK400 req'd (2) 5/8" x 1-3/4" A325 bolts if (1) AK400 req'd (2) 5/8" x 1-1/2" A325 bolts if (2) AK400 req'd.
- Locate top of roof framed openings flush with the pan of the roof panel.
- Some field drilling at framed openings may be required. Field drill 9/16" diameter holes.
- For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.



SECTION 'Y'



TYPICAL ENDWALL STRAP DETAIL
(number of girt rows vary)



WALL DIAPHRAGM DETAIL
(typical connection at each end)

BOLT TABLE				
FRAME LINE 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	2"
Columns	4	A325	5/8"	1 1/2"
Jamb	2	A325	5/8"	1 1/2"

FLANGE BRACE TABLE		
FRAME LINE 5		
MARK	LENGTH	
1 FB29.25	2'-5 1/4"	

CONNECTION PLATES	
FRAME LINE 5 - BLDG A	
ID	MARK/PART
1	d1
2	AK200
3	S3
4	SA005

MEMBER TABLE	
FRAME LINE 5 - BLDG A	
MARK	PART
EC-3	WBX10
EC-4	WBX15
EC-5	WBX15
EC-6	WBX10
ER-1	WBX15
ER-2	WBX15
G-7	8X25Z16
G-8	8X25Z16
G-9	8X25Z16

CONNECTION PLATES	
FRAME LINE 5 - BLDG B	
ID	MARK/PART
1	AK400
2	AK400
3	AK400
4	AK200
5	SA005
6	AB201
8	AB201
9	AB212

MEMBER TABLE	
FRAME LINE 5 - BLDG B	
MARK	PART
EC-102	8X25C16
EC-103	8X25C12
EC-104	8X25C16
ER-101	10X35C12
DJ-102	8X25C14
DJ-103	8X25C14
DH-101	8X25C14
C-104	8X25Z16
C-105	8X25Z16
C-106	8X25C14

ENDWALL COLUMN: REACTIONS, ANCHOR BOLTS, & BASE PLATES											
Column Reactions (k)											
Frm Line	Col Line	Dead Vert	Coll Vert	Live Vert	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Out-Of-Plane Wd P Horiz	Wd S Horiz	Wd S Vert
1	F	1.5	0.0	0.0	0.0	0.0	0.0	0.0	-5.4	5.9	4 0.625 8.000 9.000 0.375 0.0
1	B	1.5	0.0	0.0	0.0	0.0	0.0	0.0	-5.4	5.9	4 0.625 8.000 9.000 0.375 0.0
5	G	0.5	0.0	1.5	0.0	-2.4	0.0	-1.6	0.0	0.0	4 0.625 8.000 9.000 0.375 0.0
5	E	1.1	0.0	4.2	0.0	-7.2	0.0	-4.2	-3.4	3.8	4 0.625 8.000 9.000 0.375 0.0
5	D	1.1	0.0	3.6	0.0	-4.4	0.0	-4.4	-4.1	4.4	4 0.625 8.000 9.000 0.375 0.0
5	C	1.1	0.0	4.2	0.0	-4.2	0.0	-7.2	-3.4	3.8	4 0.625 8.000 9.000 0.375 0.0
5	A	0.8	0.0	2.9	0.0	-3.7	0.0	-4.5	0.0	0.0	4 0.625 8.000 9.000 0.375 0.0

BRACING REACTIONS, PANEL SHEAR											
± Reactions (k)											
Loc	Line	Col Line	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Panel Shear (lb/ft)				
L.E.W	1	Rigid Frame At Endwall	2.3	5.7	3.7	0.2	0.2				
R.E.W	5										
L.S.W	A	3.2	5.7	3.7	0.2	0.2					

ENDWALL COLUMN: REACTIONS, ANCHOR BOLTS, & BASE PLATES											
Column Reactions (k)											
Frm Line	Col Line	Dead Vert	Coll Vert	Live Vert	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Out-Of-Plane Wd P Horiz	Wd S Horiz	Wd S Vert
1	AB	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-2.3	2.5	2 0.625 8.000 9.000 0.375 0.0
3	A	0.3	0.0	1.4	0.0	-2.1	0.0	-2.1	0.0	0.0	4 0.625 8.000 9.000 0.375 0.0
5	AB	0.7	0.0	4.3	0.0	-6.2	0.0	-6.2	-2.1	2.3	2 0.625 8.000 9.000 0.375 0.0
5	AA	0.3	0.0	1.4	0.0	-1.9	0.0	-1.9	0.0	0.0	4 0.625 8.000 9.000 0.375 0.0

BRACING REACTIONS, PANEL SHEAR											
± Reactions (k)											
Loc	Line	Col Line	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Panel Shear (lb/ft)				
L.E.W	1	Rigid Frame At Endwall	2.3	5.7	3.7	0.2	0.2				
R.E.W	A	Torsional Bracing Used									
L.S.W	5										
L.S.W	AA	3.2	4.7	2.1	0.5	0.2					

HORIZON ENGINEERING & CONSULTING INC.
MASSOUD SAGHAIE
PHONE: 281-241-3120

Firm Name and Address

KATHY PETERSEN McDONALD
Hangar Building

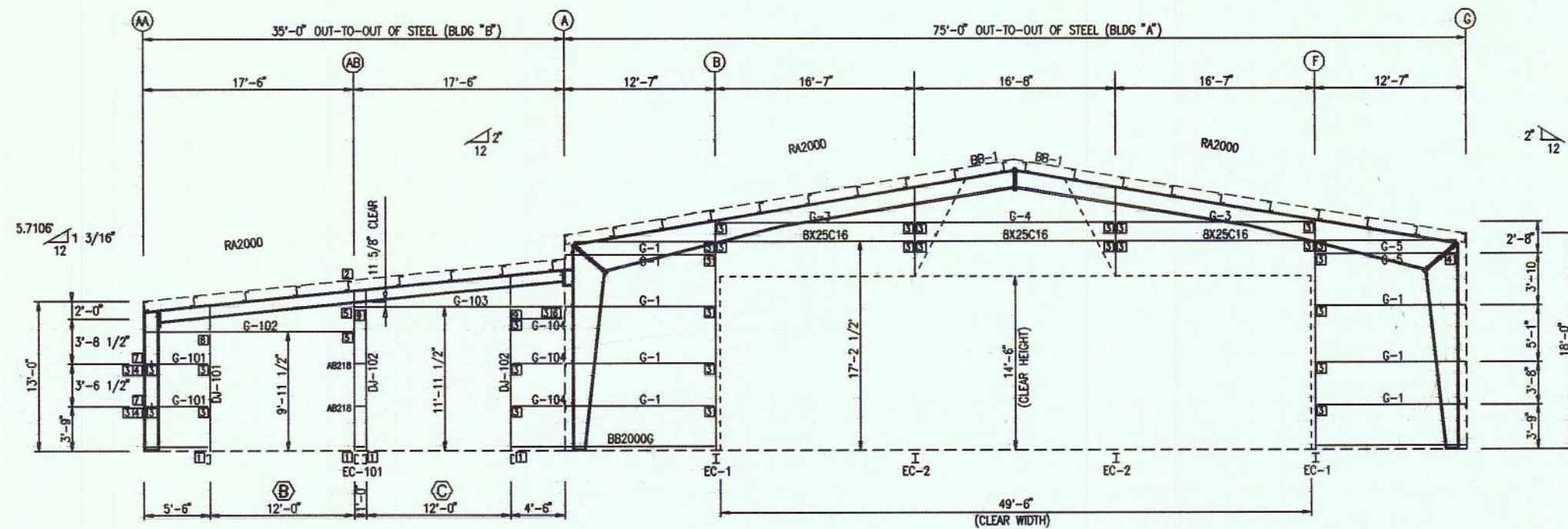
618 Country Road
ANGELTON, TEXAS 77515

ENDWALL FRAMING

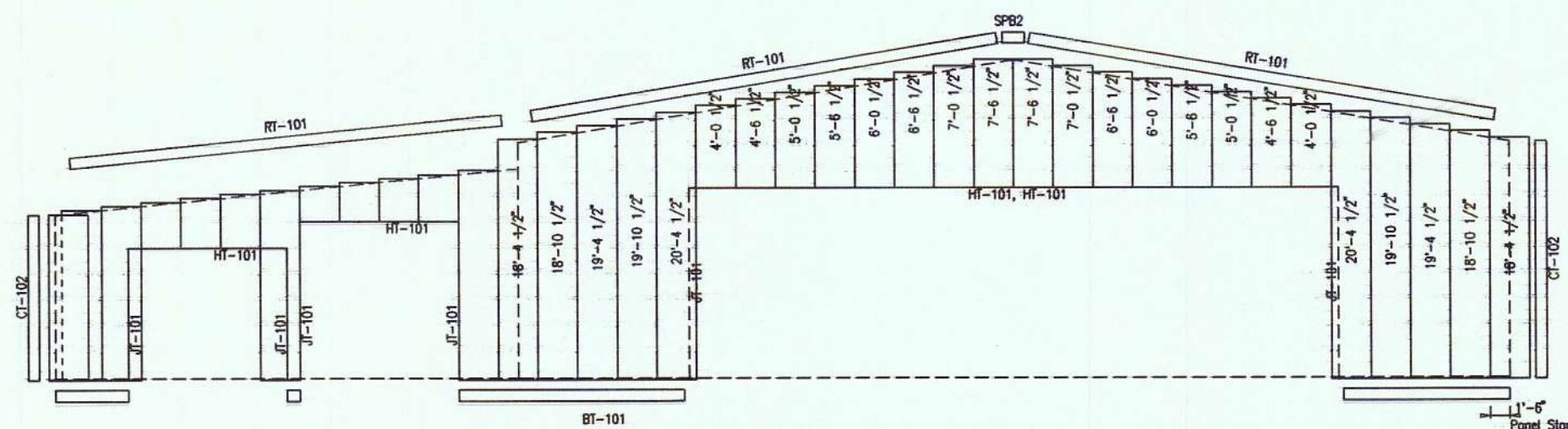
A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name	Sheet
EWDWG-R	
Date	Sept. 05, 2006
Scale	N/A

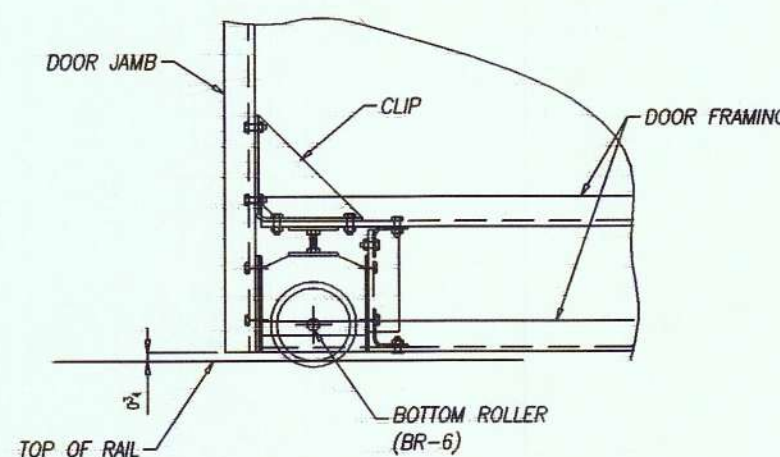
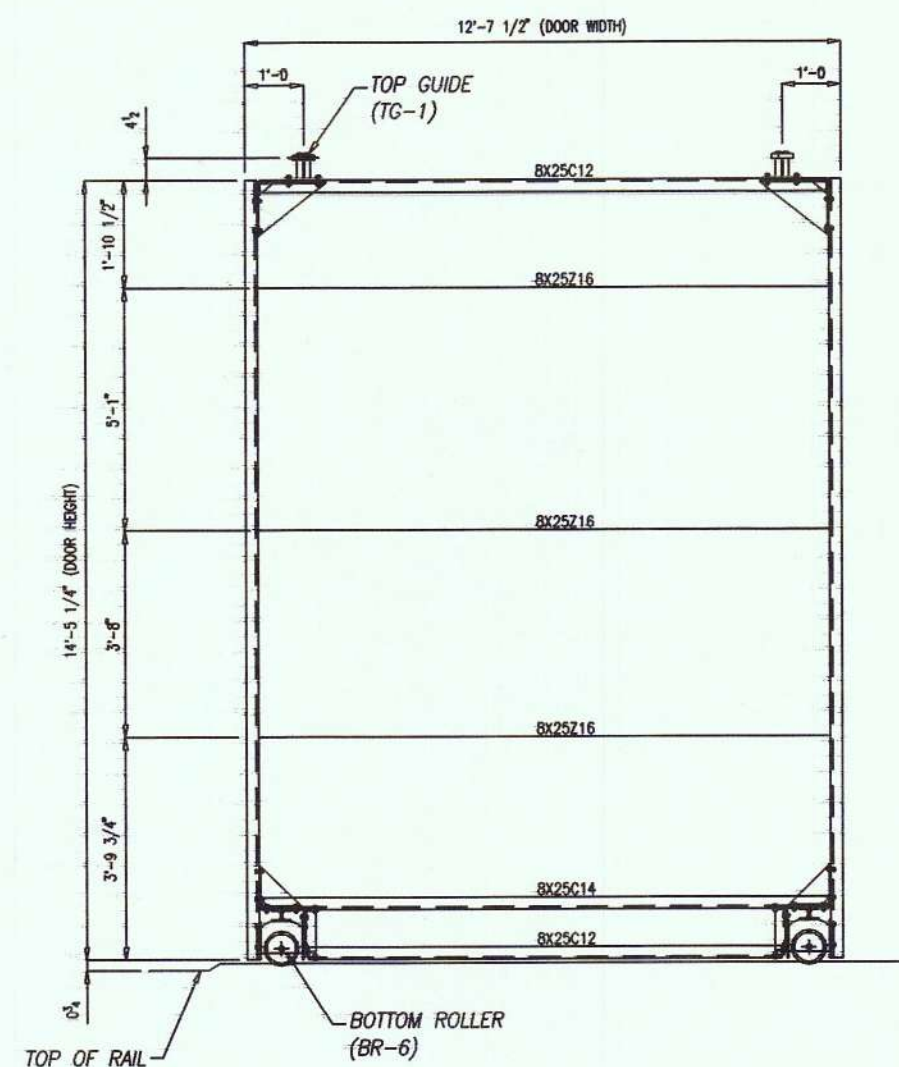
E3



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 Ga. SUPER SPAN - Steel Gray



GENERAL SHEETING & TRIM NOTES

- Refer to erection drawings for rake angle locations.
- Roof member screws are at 12" o.c. Eave and top and peak screws are as shown.
- Wall member screws are at 12" o.c. of the base member and 12" o.c. of all remaining members.
- Roof stitch screws are located at each member with two between members (20" max. spacing).
- Wall stitch screws are located at each member with one between members (20" max. spacing).
- Sightline stitch screws are at 12" o.c.
- Start endwall panels at centerline of bldg. unless noted.
- Gutter, rake, & eave trim top 2". All other trim top 1".
- Field cut or top panels as required to fit.
- Field cut panels for all openings.
- Pop rivet gutter counterflashing to wall panel on 3'-0" centers and caulk all laps.
- Gutter support along spacing: Super Span 3'-0", Super Seam 2'-0", Weather Lok-16 2'-0".
- Corner and/or peak boxes are not furnished with special rake or gutter profiles. Field miter as req'd.
- Downspout along spacing: 4" x 4" 8'-0" o.c. maximum, larger downspouts 5'-0" o.c. maximum.
- Hot-rolled or built-up members must be pre-drilled before attaching members screws.
- Metal shavings must be swept from the roof each day to avoid surface rusting.
- Windows and louvers must be installed before sheeting the walls.
- For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

GENERAL FRAMING NOTES

- Angles are marked by their length in feet and inches.
- Field cut or lap angles as required to fit.
- Flange braces are marked by their length in decimal inches.
- Outside flange of girt turns down unless noted.
- Endwall girts and eave struts do not lap.
- Field cut and self-top girts at walk doors.
- Field skt girts for brace rods or cables.
- Field locate windows and walk doors.
- Field weld all splices of 14 gauge valley gutters.
- Field bolt AK400 base clip to endwall column:
- Field bolt AK400 base clip to endwall column:
- Locate top of roof framed openings flush with the post of the roof panel.
- Some field drilling at framed openings may be required. Field drill 5/16" diameter holes.
- For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

BOLT TABLE - BLDG "A"					
FRAME LINE 1					
LOCATION	QUAN	TYPE	DIA	LENGTH	
Columns	10	A325	5/8"	1 1/2"	
Rock Braces	1	A325	5/8"	1 3/4"	

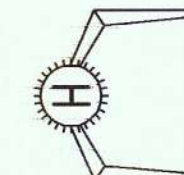
BOLT TABLE - BLDG "B"					
FRAME LINE 1					
LOCATION	QUAN	TYPE	DIA	LENGTH	
Columns	4	A325	5/8"	1 1/2"	

CONNECTION PLATES		FRAME LINE 1 - BLDG A	
ITEM	MARK/PART	ITEM	MARK/PART
1	n1	2	AK400
2	b1	3	AK411
3	AK200	4	AK200
4	d2	5	d4

MEMBER TABLE		FRAME LINE 1 - BLDG A	
MARK	PART	MARK	PART
BB-1	P0450156	EC-1	WBX15
EC-2	WBX10	G-1	8X25C16
G-2	8X25C16	G-3	8X25C16
G-4	8X25C12	G-5	8X25C12
G-6	8X25C12	G-7	8X25C12

CONNECTION PLATES		FRAME LINE 1 - BLDG B	
ITEM	MARK/PART	ITEM	MARK/PART
1	AK400	2	AK411
3	AK200	4	d4
5	AB201	6	d5
7	SA005	8	j1
9	j2		

MEMBER TABLE		FRAME LINE 1 - BLDG B	
MARK	PART	MARK	PART
EC-101	8X25C12	DJ-101	8X25C14
DJ-102	8X25C14	G-101	8X25C16
G-102	8X25C14	G-103	8X25C14
G-104	8X25C16		



HORIZON ENGINEERING & CONSULTING INC.

WASOUD SAGHRI
PHONE: 281-241-3120

Firm Name and Address

KATHY PETERSEN McDONALD
Hangar Building

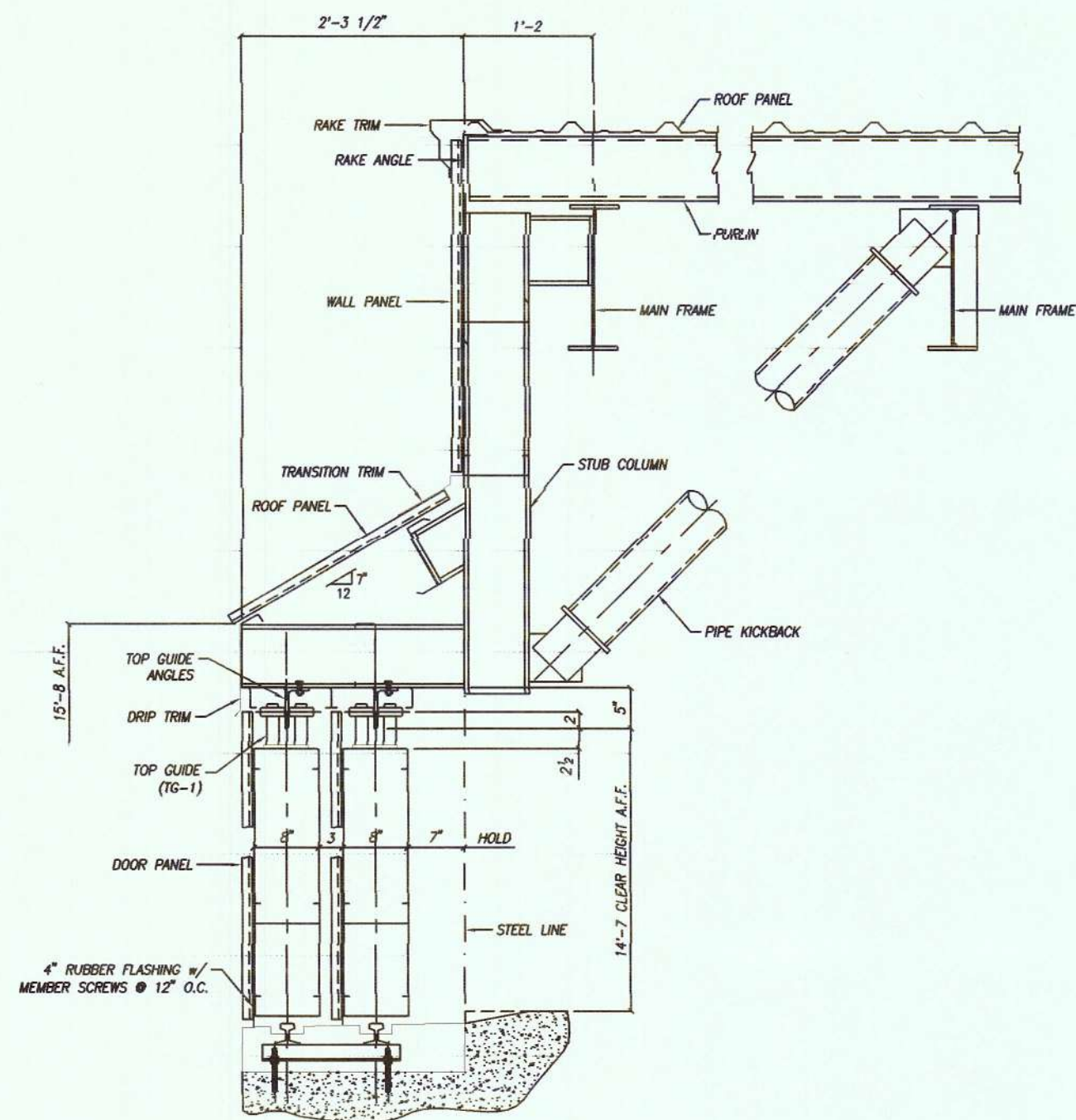
618 Country Road
ANGELTON, TEXAS 77515

ENDWALL FRAMING

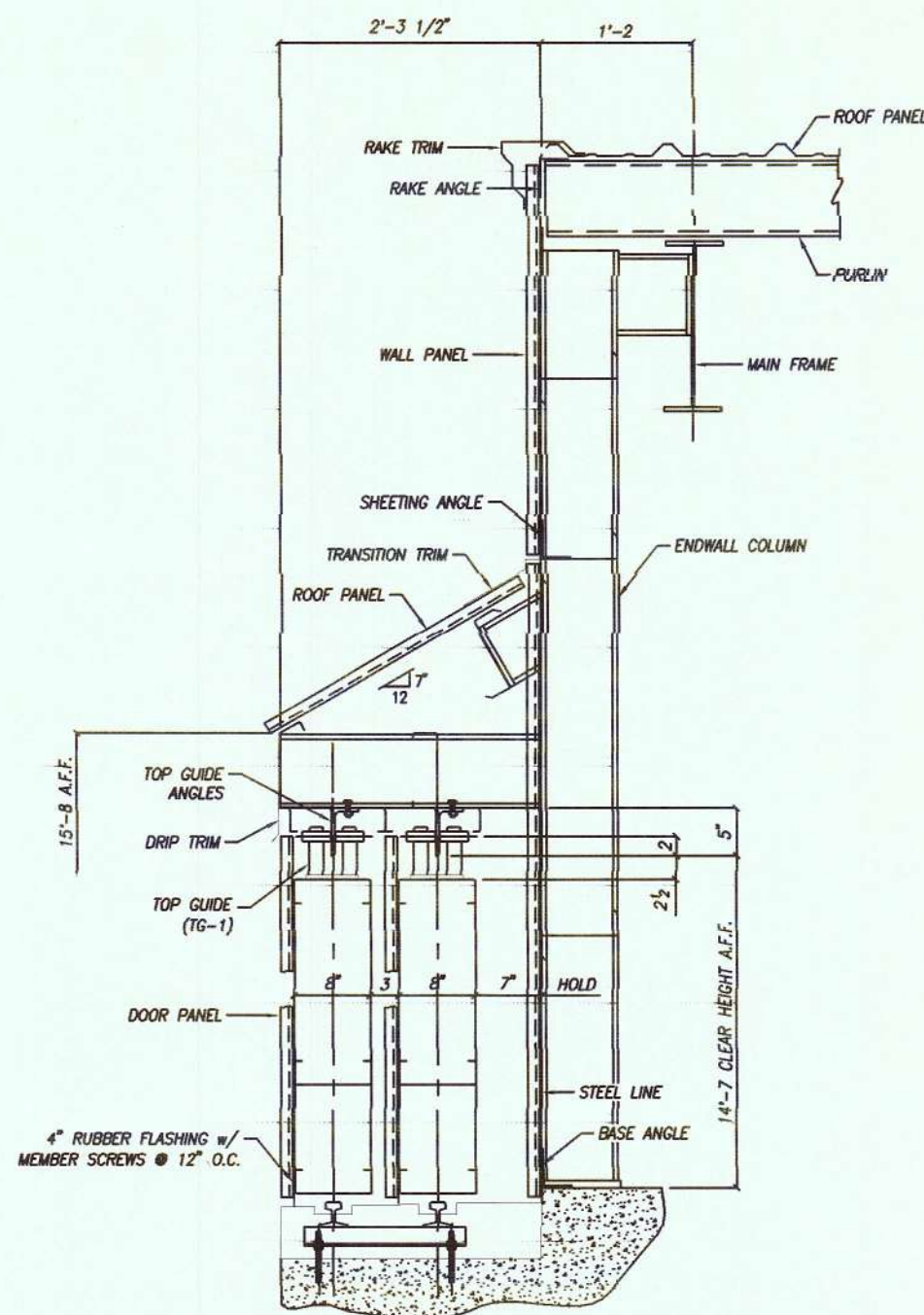
A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name	Sheet
EWDWG-L	
Date	Sept. 05, 2006
Scale	N/A

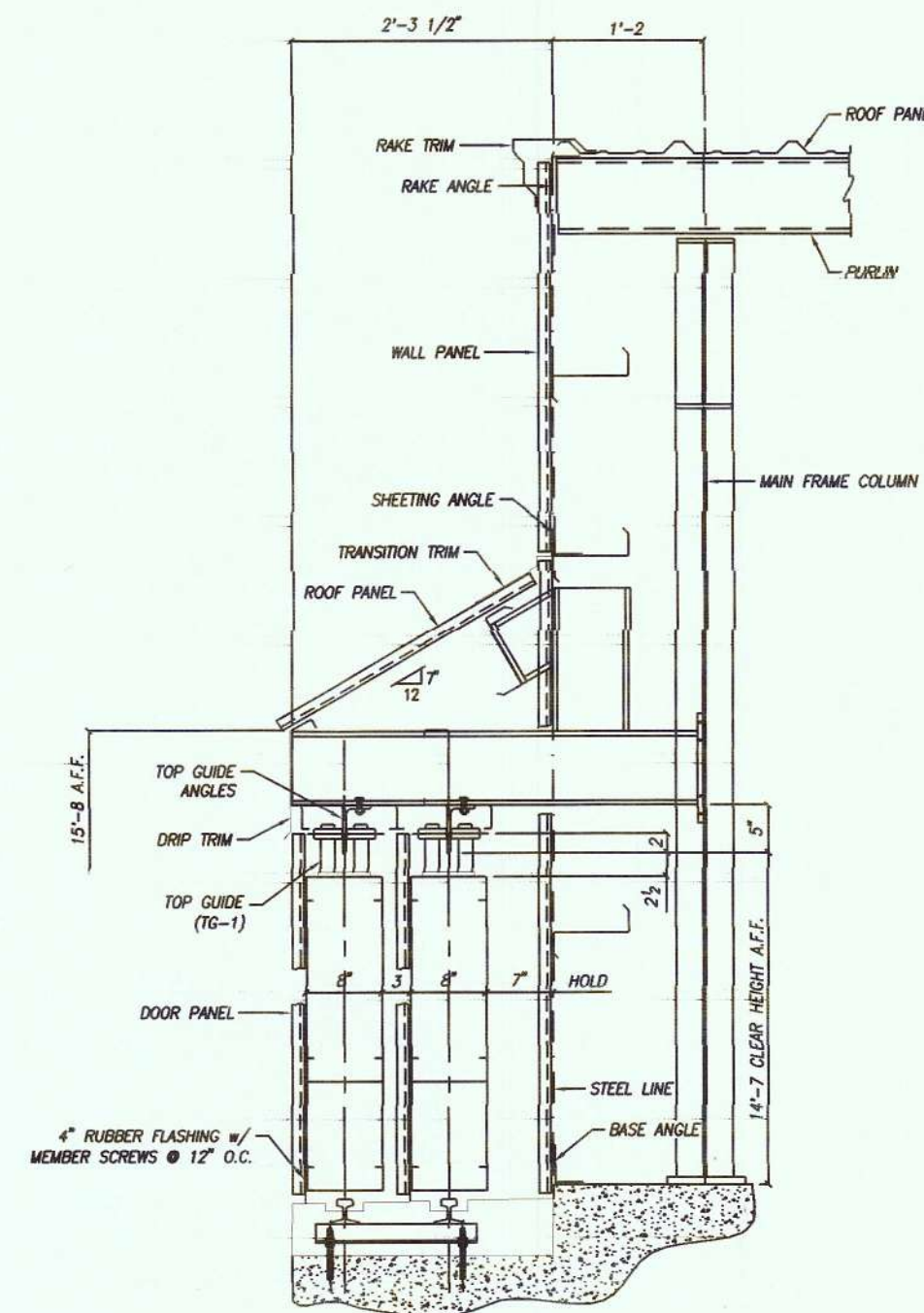
E4



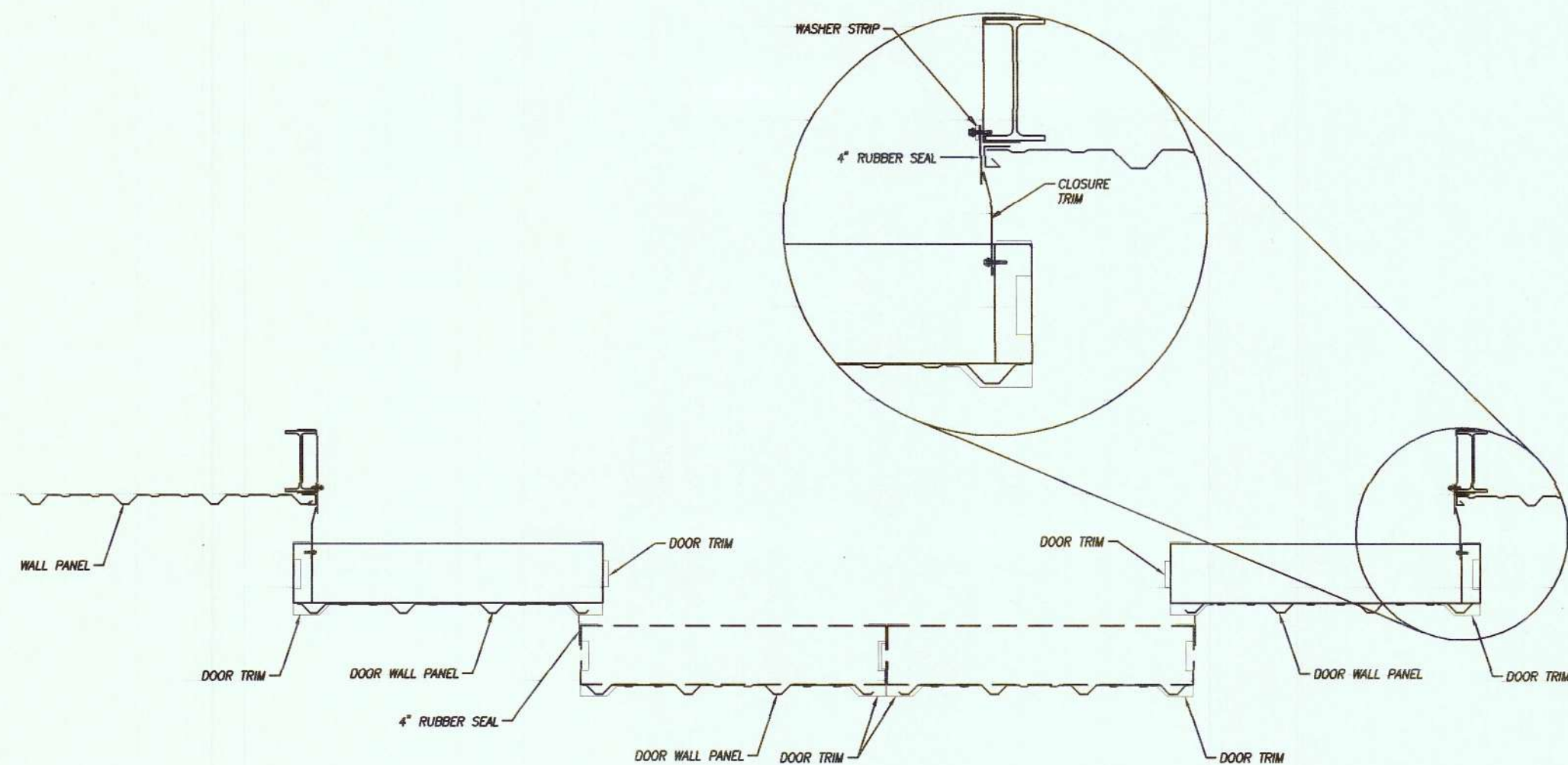
SECTION "A"



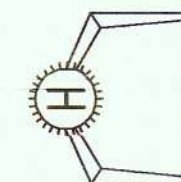
SECTION "B"



SECTION "C"



DOOR TRIM LAYOUT



HORIZON ENGINEERING & CONSULTING INC.
MASOUD SAGHAFI
PHONE 281-241-3120

Firm Name and Address

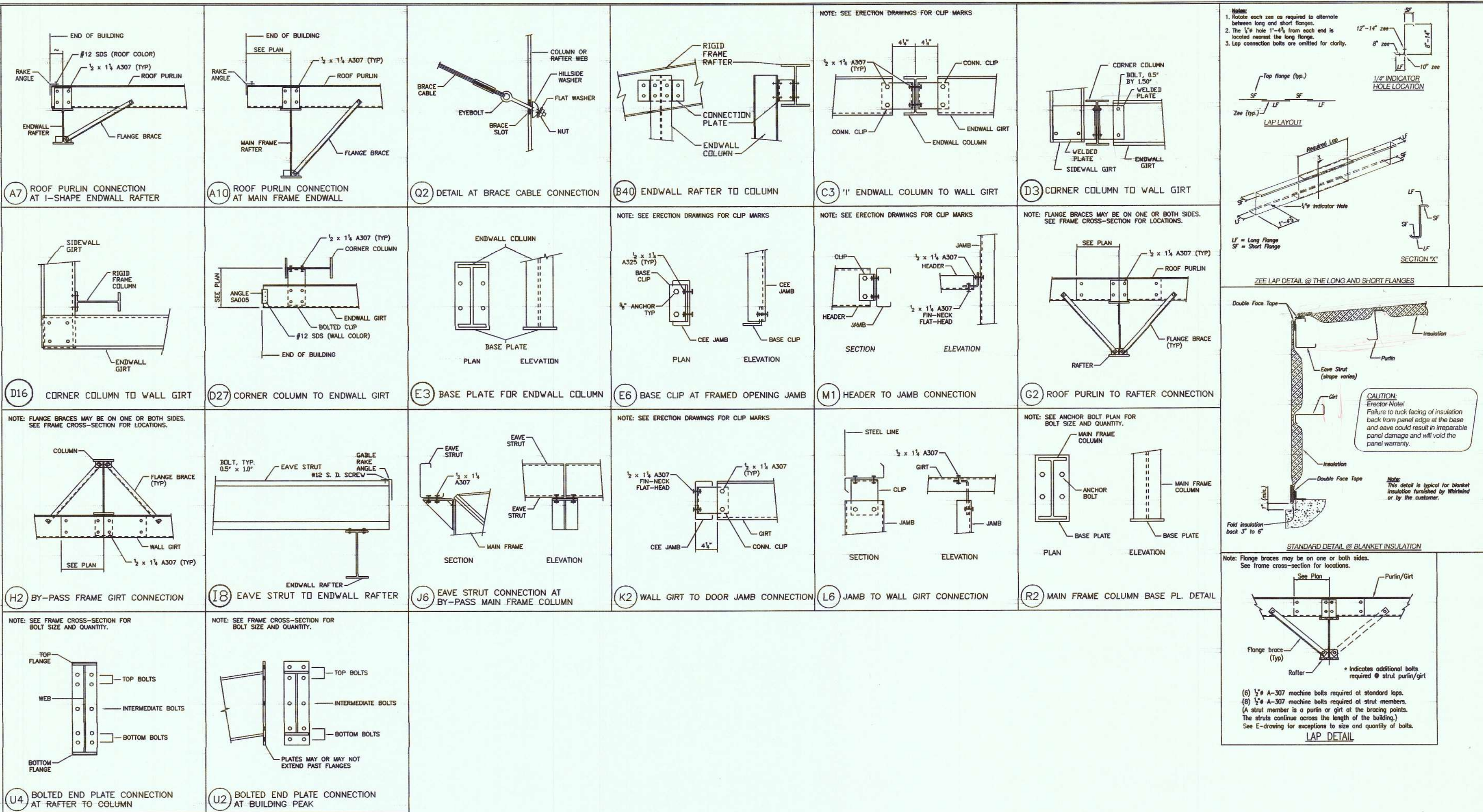
KATHY PETERSEN McDONALD
Hangar Building

618 Country Road
ANGELTON, TEXAS 77515

SECTIONS

A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name DTDWG-2	Sheet E5
Date Sept. 05, 2006	
Scale N/A	



Firm Name and Address

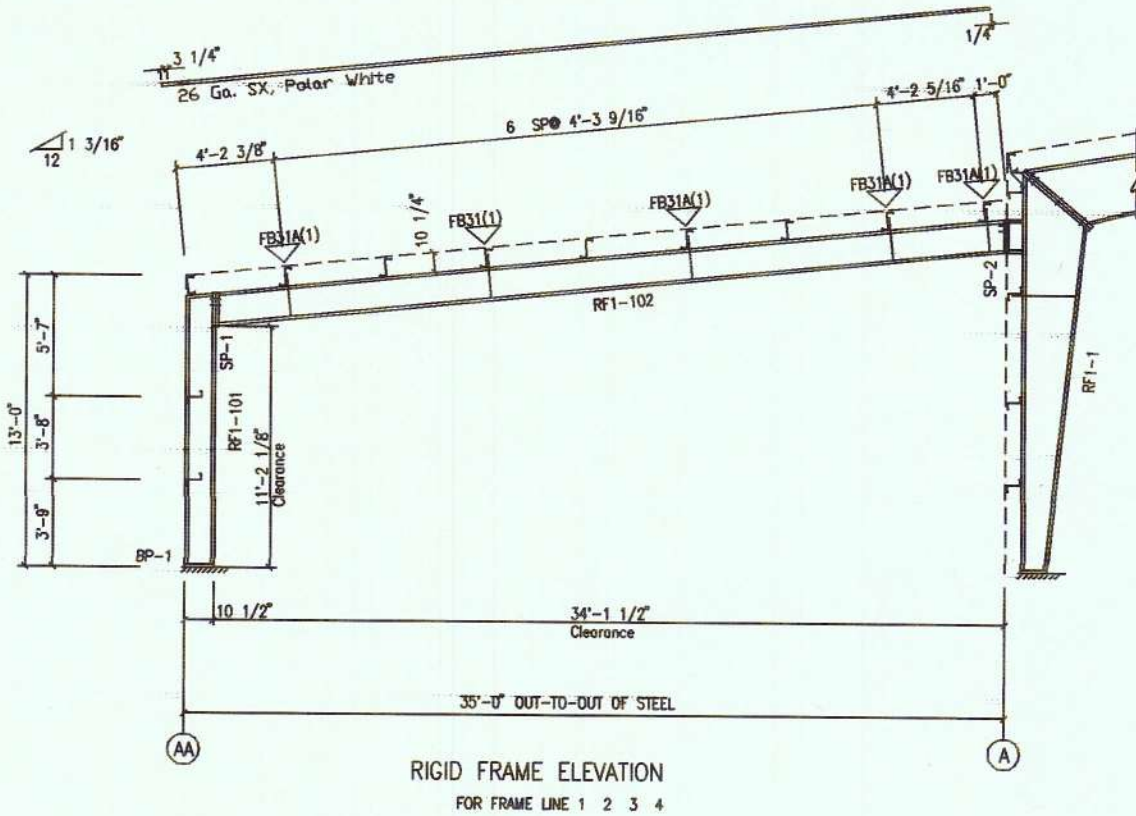
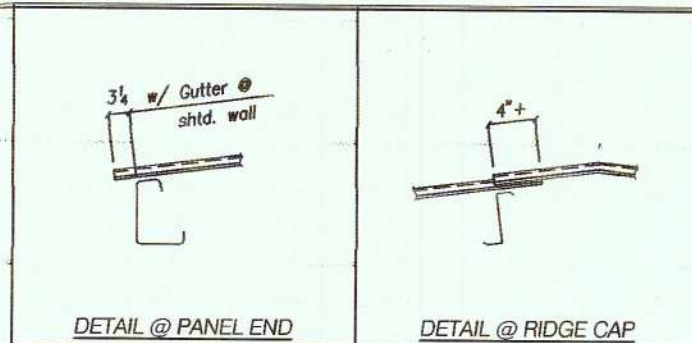
KATHY PETERSEN McDONALD
Hangar Building

618 Country Road
 ANGELTON, TEXAS 77515

DETAIL PAGE

A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name	Sheet
DTDWG-1	
Date	
Sept. 05, 2006	D1
Scale	
N/A	

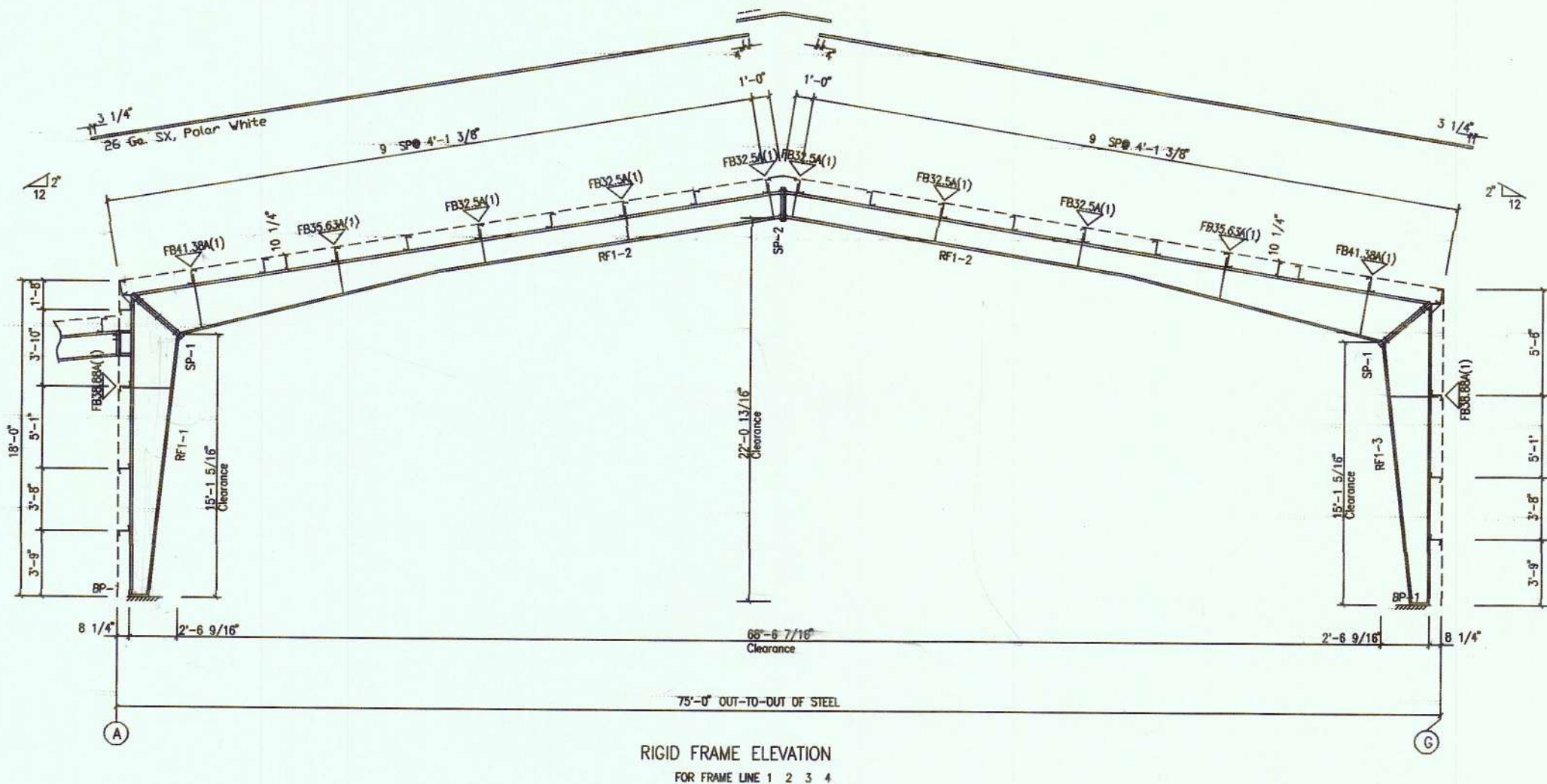


PIECE	WEB DEPTH START/END	WEB PLATE THICK	OUTSIDE FLANGE W x T x LEN	INSIDE FLANGE W x T x LEN
RF1-101	10.0/10.0	0.134	6x1/4"	6x1/4"
RF1-102	12.0/12.0	0.134	6x5/16"	6x3/8"

SPICE BOLTS	Quan	Top/Bot/Int	Type	Dia	Len
SP-1	4	0	0	A325	3/4" 1 3/4"
SP-2	4	0	0	A325	3/4" 1 3/4"

BASE PLATES	Col	Id	Wid	Thick	Length
BP-1	8"	3/8"	0'-10 7/8"		

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
A - L2X15X12

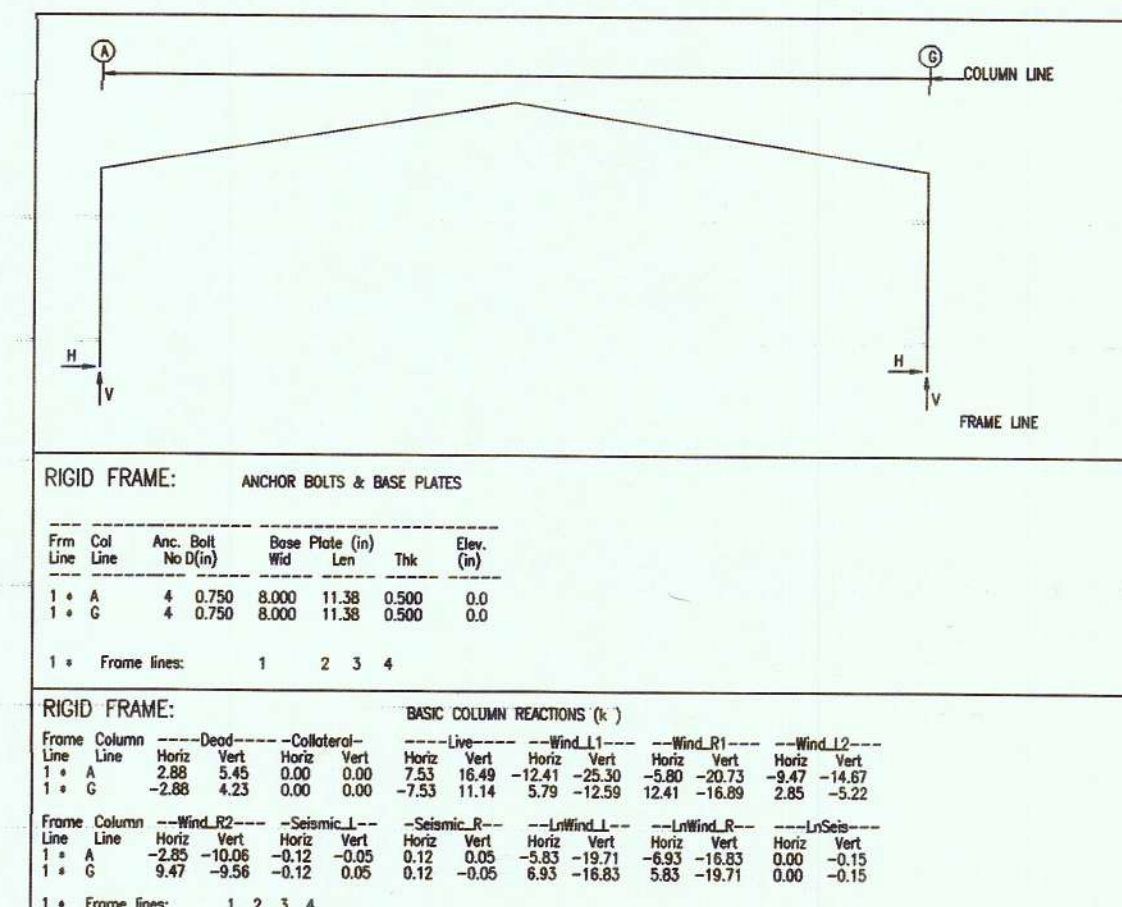
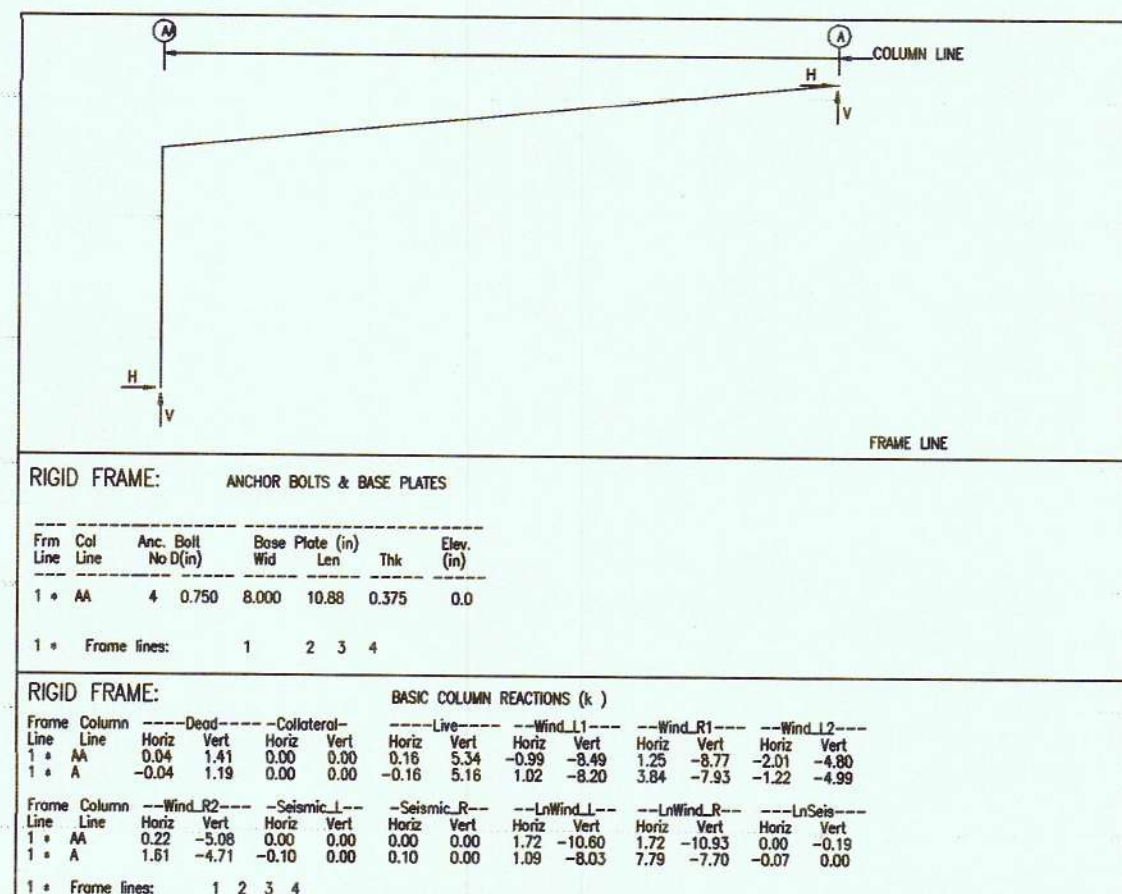


PIECE	WEB DEPTH START/END	WEB PLATE THICK	OUTSIDE FLANGE W x T x LEN	INSIDE FLANGE W x T x LEN
RF1-1	10.0/30.0	0.164	6x1/4"	6x5/16"
RF1-2	30.0/15.0	0.164	6x1/4"	6x5/16"
RF1-3	15.0/10.0	0.164	6x1/4"	6x5/16"

SPICE BOLTS	Quan	Top/Bot/Int	Type	Dia	Len
SP-1	4	4	2	A325	3/4" 2 1/2"
SP-2	4	4	0	A325	3/4" 1 3/4"

BASE PLATES	Col	Id	Wid	Thick	Length
BP-1	8"	1/2"	11 3/8"		

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
A - L2X15X12



TURN-OF-NUT TIGHTENING
Connections for rigid frames must be properly pre-tensioned. The Specification for Structural Joints Using ASTM A325 or A490 bolts dated November 13, 1985 (future reference to this section is to be called the Code) recognizes four methods to properly tighten the bolts: 1) "Turn-of-nut"; 2) calibrated wrench; 3) alternate design bolts and 4) direct tension indicator. All of these methods require special bolts and/or equipment to install, except the Turn-of-Nut Method. This is why Windaid specifies this method for bolt installation.

According to paragraph 7(c) of the Code, washers are not required to be installed.

Excerpts from the Code for installation come from paragraph 8(b) "Bolt shall be installed in all holes of the connection and brought to a snug-tight condition. Snug-tight is defined as the tightness that exists when the plates of the joint are in firm contact. This may be obtained by a few impacts of an impact wrench or the full effort of a man using an ordinary spool wrench. Snug tightening shall progress systematically from the most rigid part of the connection to the free edges, and then the bolts of the connection shall be retightened in a similar systematic manner as necessary until all bolts are simultaneously snug tight and the connection is fully compacted. Following the initial operation, all bolts in the connection shall be tightened further by the applicable amount of rotation specified in table 5."

Table 5. Nut Rotation From Snug-Tight Condition

Bolt Length (from under side of head to end of bolt)
Up to and including 4 diameters — 1/3 turn
Over 4 diameters, but not exceeding 8 diameters — 1/2 turn
Over 8 diameters, but not exceeding 12 diameters — 2/3 turn

HORIZON ENGINEERING & CONSULTING INC.
MASSOUD SAGHAFI
PHONE: 281-241-3120

Seal

Firm Name and Address

KATHY PETERSEN McDONALD
Hangar Building

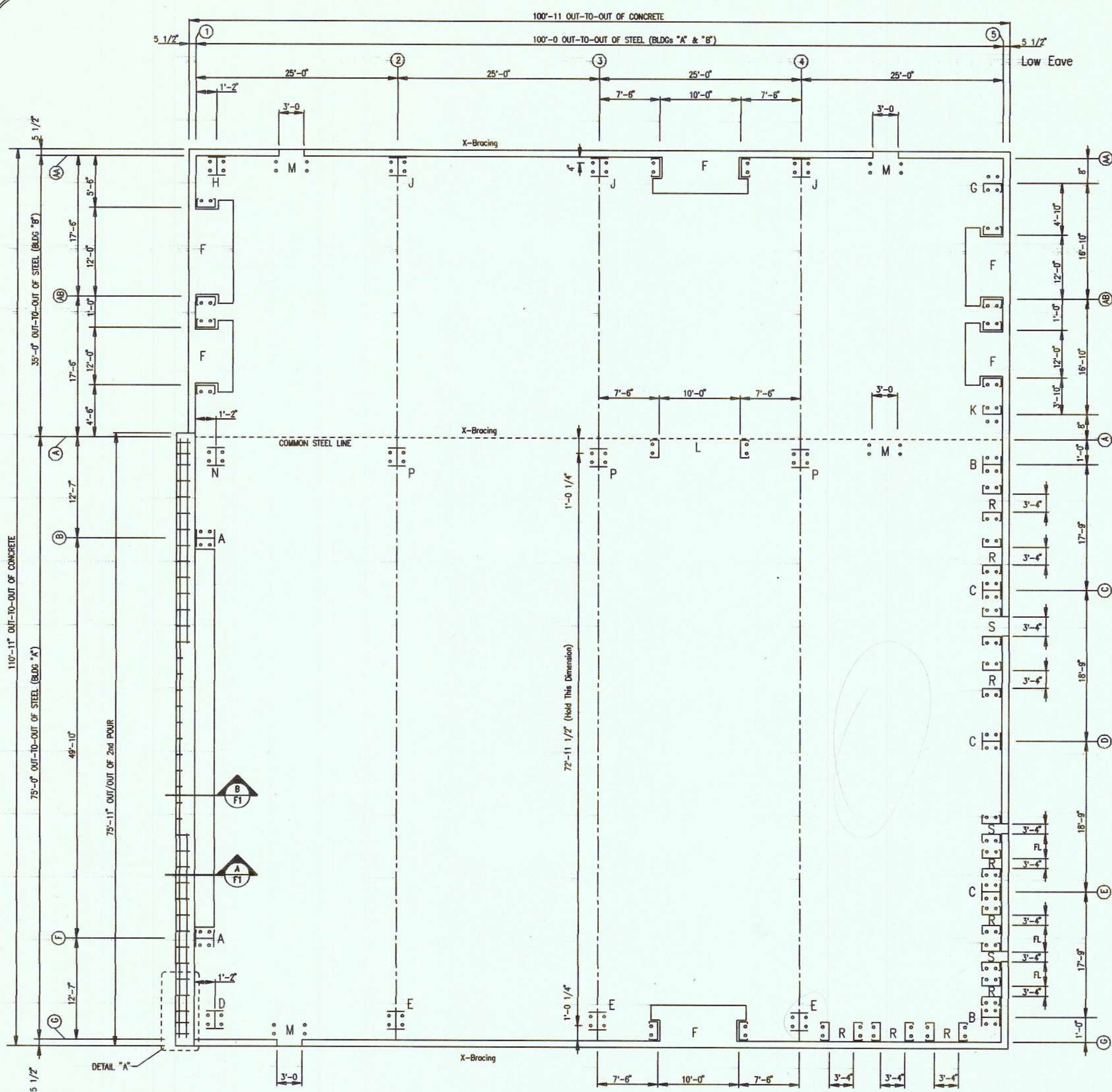
618 Country Road
ANGELTON, TEXAS 77515

RIGID FRAME ELEVATION

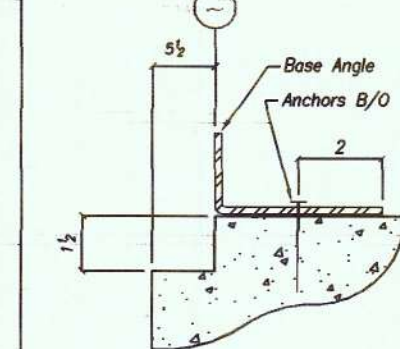
A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name	Sheet
RFDWG-1	
Date	Sept. 05, 2006
Scale	N/A

P1



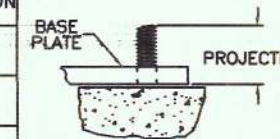
Horizontal leg of recess must remain flat or slope away from the building. Notch area indicates a recess for metal wall panels. Panels must not touch the bottom of the recess, which will void the warranty.



ANCHOR BOLT SCHEDULE

SYMBOL	QUANTITY	SIZE	PROJECTION
	94	0 1/2	2
	112	0 5/8	2 1/2
	48	0 3/4	3
	0	1	3 1/2
	0	1 1/4	4
	0	1 1/2	4

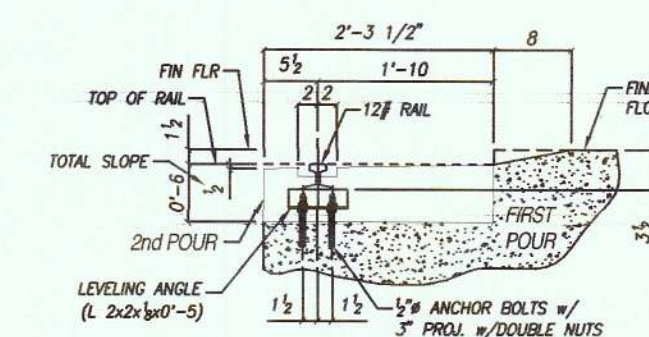
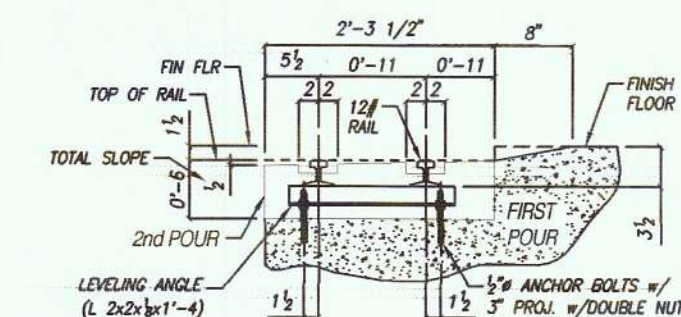
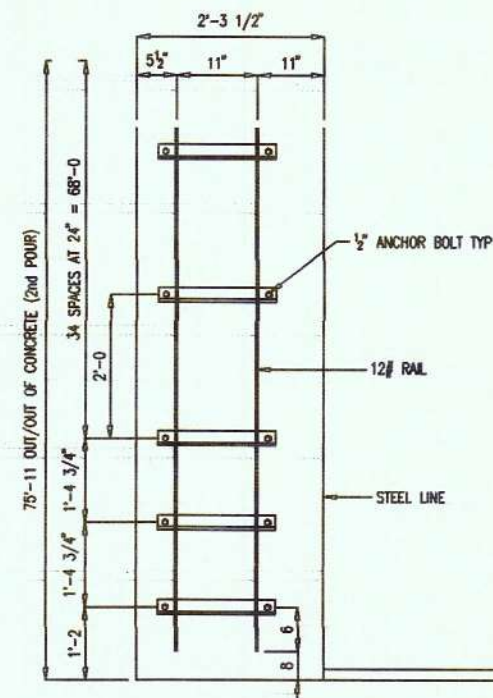
THREADED ANCHOR BOLT



NOTE: PROJECTION BASED FROM BOTTOM OF BASE PLATE. ADJUSTMENTS SHOULD BE MADE FOR GROUT AND/OR LEVELING PLATES.

REFERENCE NOTES

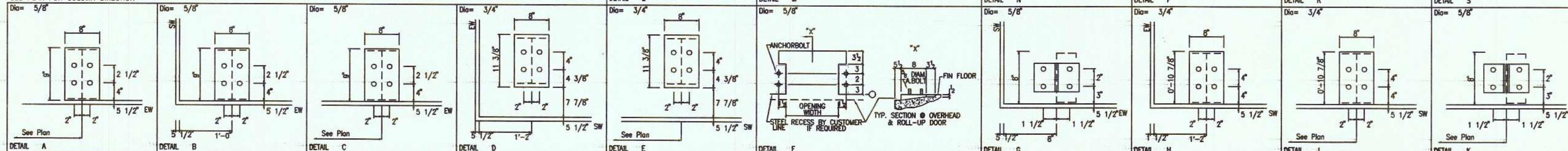
1. ALL ANCHOR BOLTS (BY OTHERS) TO HAVE NUTS AND FLAT WASHERS.
2. ALL ANCHOR BOLTS ARE DESIGNED TO FULL S.A.E. DIMETERS WITH CUT THREADS. NO SUBSTITUTIONS ARE ALLOWED.
3. HORIZON IS NOT RESPONSIBLE FOR THE DESIGN, MATERIALS AND WORKMANSHIP OF THE FOUNDATION. ANCHOR BOLT PLANS PREPARED BY HORIZON ARE INTENDED TO SHOW ONLY LOCATION, DIAMETER, AND PROJECTION OF ANCHOR BOLTS REQUIRED TO ATTACH THE METAL BUILDING SYSTEM TO THE FOUNDATION. HORIZON IS RESPONSIBLE FOR PROVIDING TO THE BUILDER THE LOADS IMPOSED BY THE METAL BUILDING SYSTEM ON THE FOUNDATION. IT IS THE RESPONSIBILITY OF THE END CUSTOMER TO ENSURE THAT ADEQUATE PROVISIONS ARE MADE FOR SPECIFYING BOLT EMBEDMENT, BEARING ANGLES, TIE RODS, AND/OR OTHER ASSOCIATED ITEMS EMBEDDED IN THE CONCRETE FOUNDATION, AS WELL AS FOUNDATION DESIGN FOR THE LOADS IMPOSED BY THE METAL BUILDING SYSTEM, OTHER IMPOSED LOADS, AND THE BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. (1996 LOW RISE BUILDING SYSTEMS MANUAL, SECTION IV, 3.2.2)



ANCHOR BOLT PLAN

NOTE: ALL BASE PLATES ARE AT FINISH FLOOR ELEVATION. NO PROVISIONS ARE MADE FOR GROUT.

SEE PLAN FOR COLUMN DIRECTION



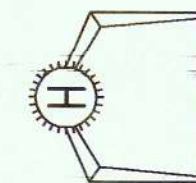
KATHY PETERSEN McDONALD
Hangar Building

618 Country Road
ANGELTON, TEXAS 77515

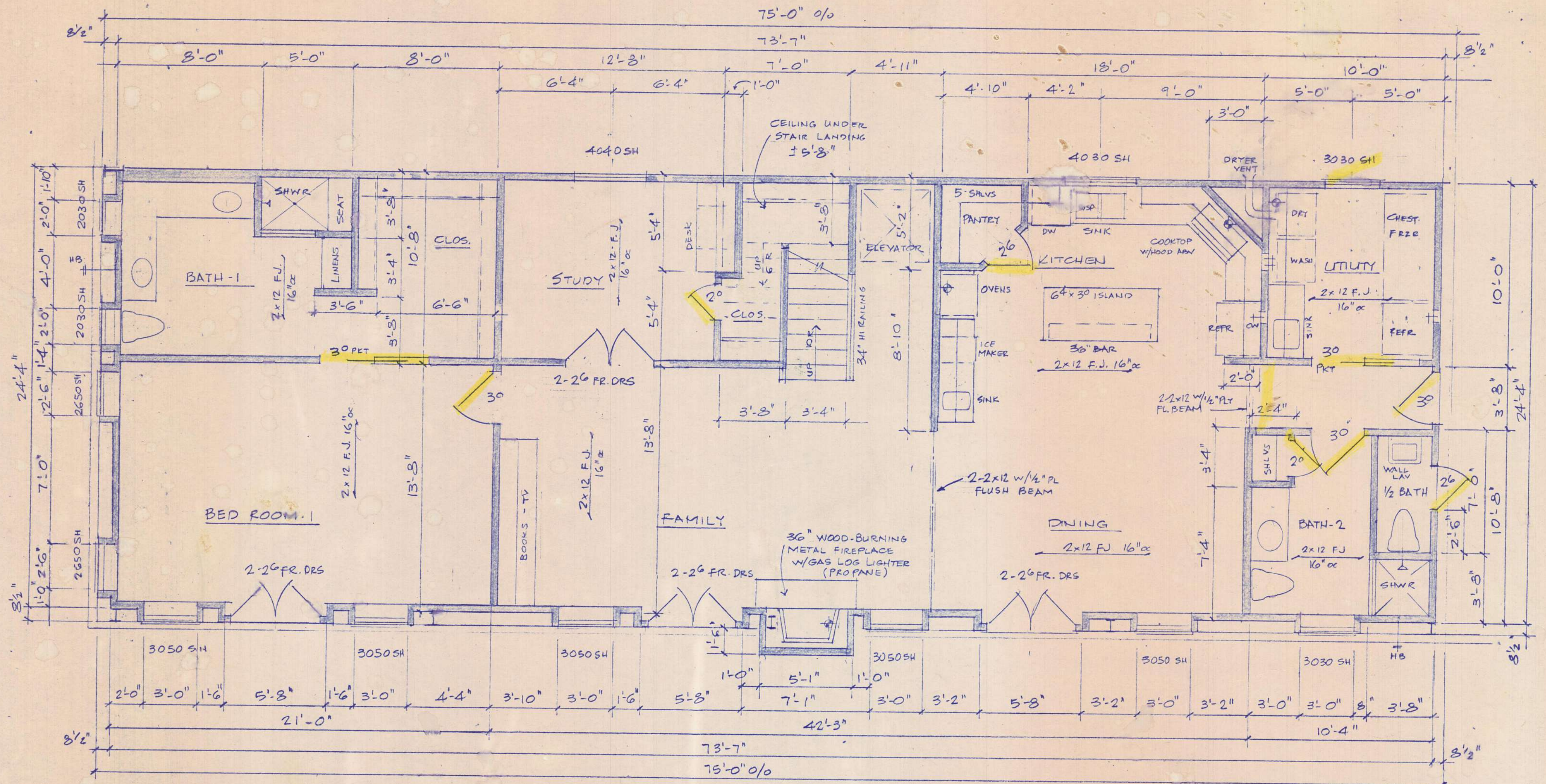
ANCHOR BOLT PLAN

A	FOR APPROVAL	9/5/06
O	FOR CONSTRUCTION	11/20/06
No.	Revision/Issue	Date

File Name ANDWC-1	Sheet
Date Sept. 05, 2006	F1
Scale N/A	



HORIZON ENGINEERING & CONSULTING INC.
MASSOUD SAGHAFI
PHONE: 281-241-3120



0290111
 3'-0" doors - masonite **||||**
 2'-6" " - masonite **||**
 3'0 masonite pocket door **|||**
 2'0 masonite **||**
 2'-6" exterior door for hanging bath
 order stair kit for attic

entry door 1
 3'0 door - half glass w/ blinds - vented

FLOOR PLAN - 1ST FLOOR
 SCALE 1/4" = 1'-0" - 9' CEILINGS
 1790 sq ft FLOOR JOISTS #2YP 16" oc

1ST FLOOR 1790 Sq. Ft.
 2ND FLOOR 1790 Sq. Ft.
 TOTAL AREA 3580 Sq. Ft.



MCDONALD RESIDENCE



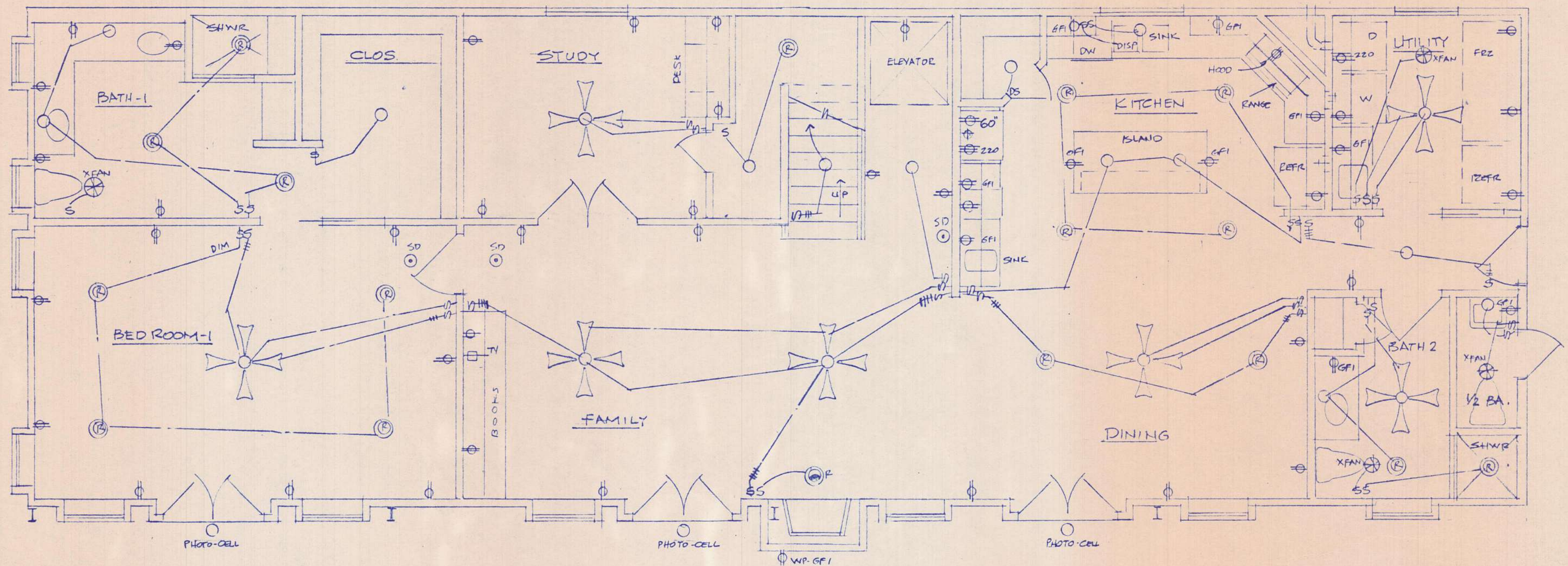
To the best of my knowledge, these plans are drawn to comply with owner's specifications. Every attempt has been made in the preparation of drawings and specs to avoid mistakes. Contractor and/or owner shall verify all dimensions, details, and specifications. Designer will not be liable for human error after construction is started.

The information, plans, specifications, and designs appearing in these drawings are the property of Adams Designers. Any unauthorized use or duplication in whole or in part is strictly prohibited.

ADAMS DESIGNERS
 1726 SOUTH RICHEY
 PASADENA, TEXAS 77502
 (713) 473-3303

PLAN NO.
McDONALD
 DRAWN BY: TL DATE: 3/07 DET:
 CRD BY: ELEV: REV: DATE: BY:

SHEET
1



ELECTRICAL PLAN - 1ST FLOOR

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



NORTH

MC DONALD RESIDENCE



To the best of my knowledge, these plans are drawn to comply with owner's specifications. Every attempt has been made in the preparation of drawings and specs to avoid mistakes. Contractor and/or owner shall verify all dimensions, details, and specifications. Designer will not be liable for human error after construction is started.

The information, plans, specifications, and designs appearing in these drawings are the property of Adams Designers. Any unauthorized use or duplication in whole or in part is strictly prohibited.

ADAMS DESIGNERS

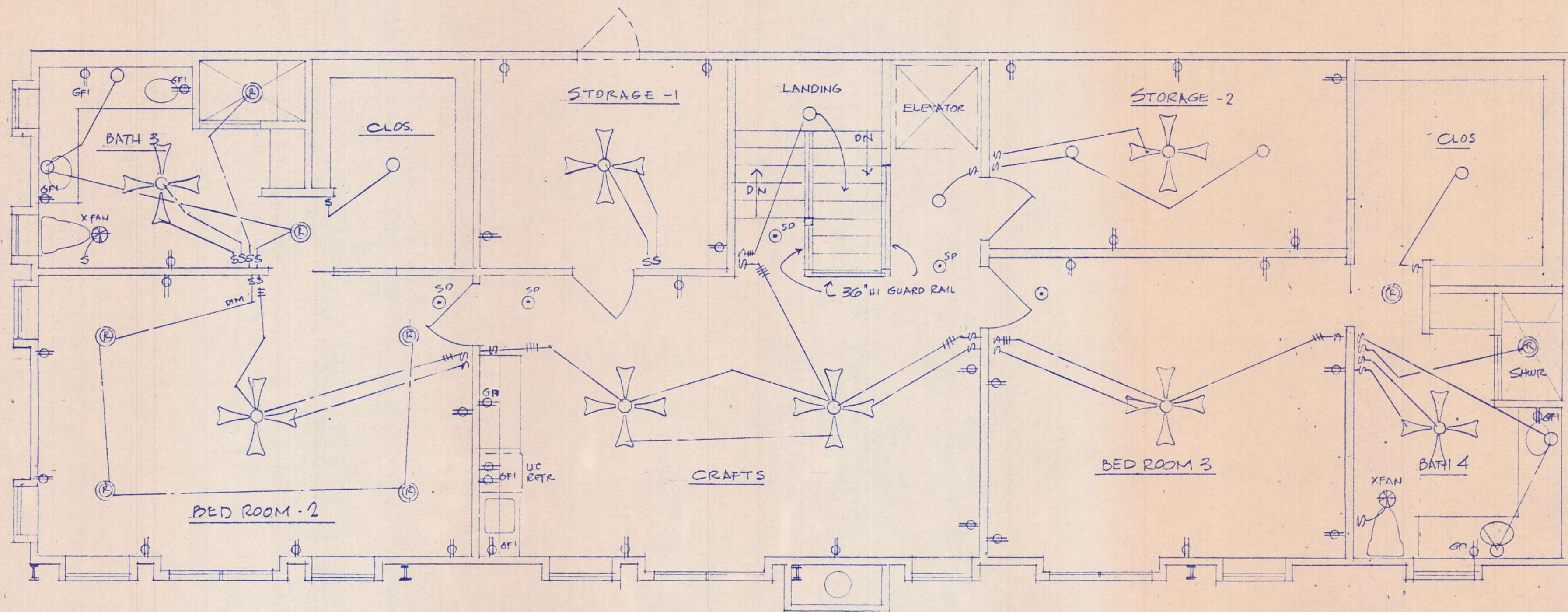
1726 SOUTH RICHEY
PASADENA, TEXAS 77502

(713) 473 3303

PLAN NO.
McDONALD

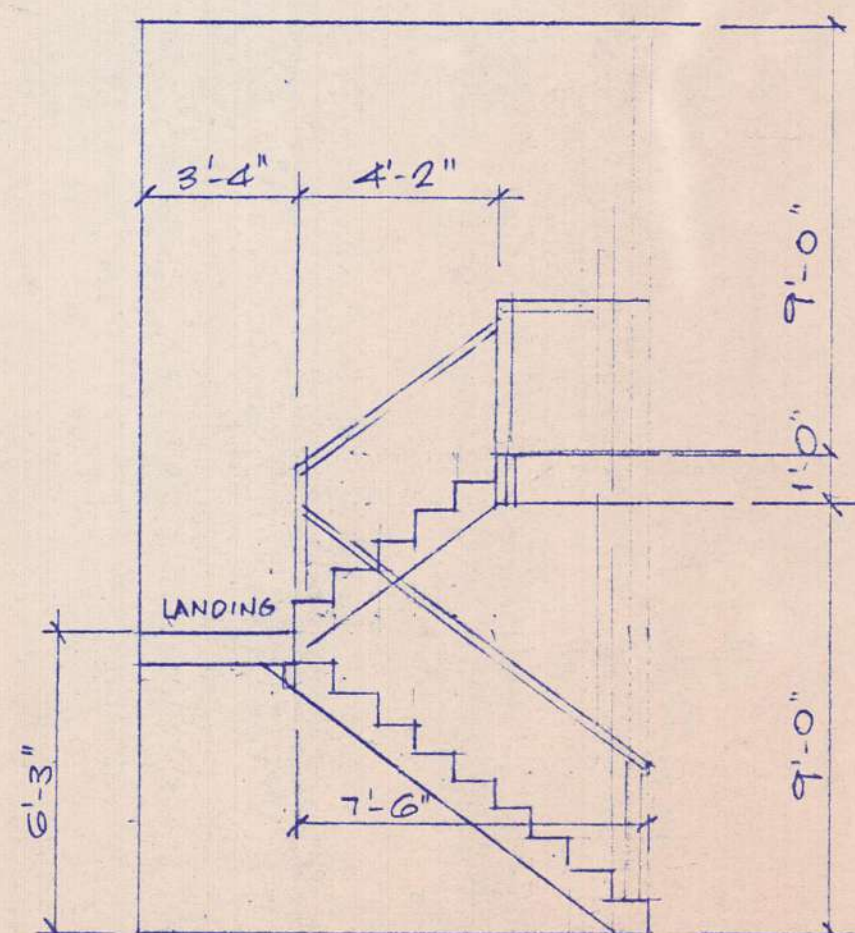
DRAWN BY TL	DATE 3/07	DET.
CHECK BY	ELEV	REV./DATE/ BY

SHEET
3



ELECTRICAL PLAN - 2ND FLOOR

SCALE 1/4" = 1'-0"



SECTION THRU STAIRS

SCALE 1/4" = 1'-0"

STAIRS:
16 EQUAL RISERS @ 7.5"
14-10" TREADS
1 - 3'-4" LANDING.



NORTH

MC DONALD RESIDENCE



To the best of my knowledge these plans are drawn to comply with owner's specifications. Every attempt has been made in the preparation of drawings and specs to avoid mistakes. Contractor and/or owner shall verify all dimensions, details and specifications. Designer will not be liable for human error after construction is started.

The information, plans, specifications, and designs appearing in these drawings are the property of Adams Designers. Any unauthorized use or duplication in whole or in part is strictly prohibited.

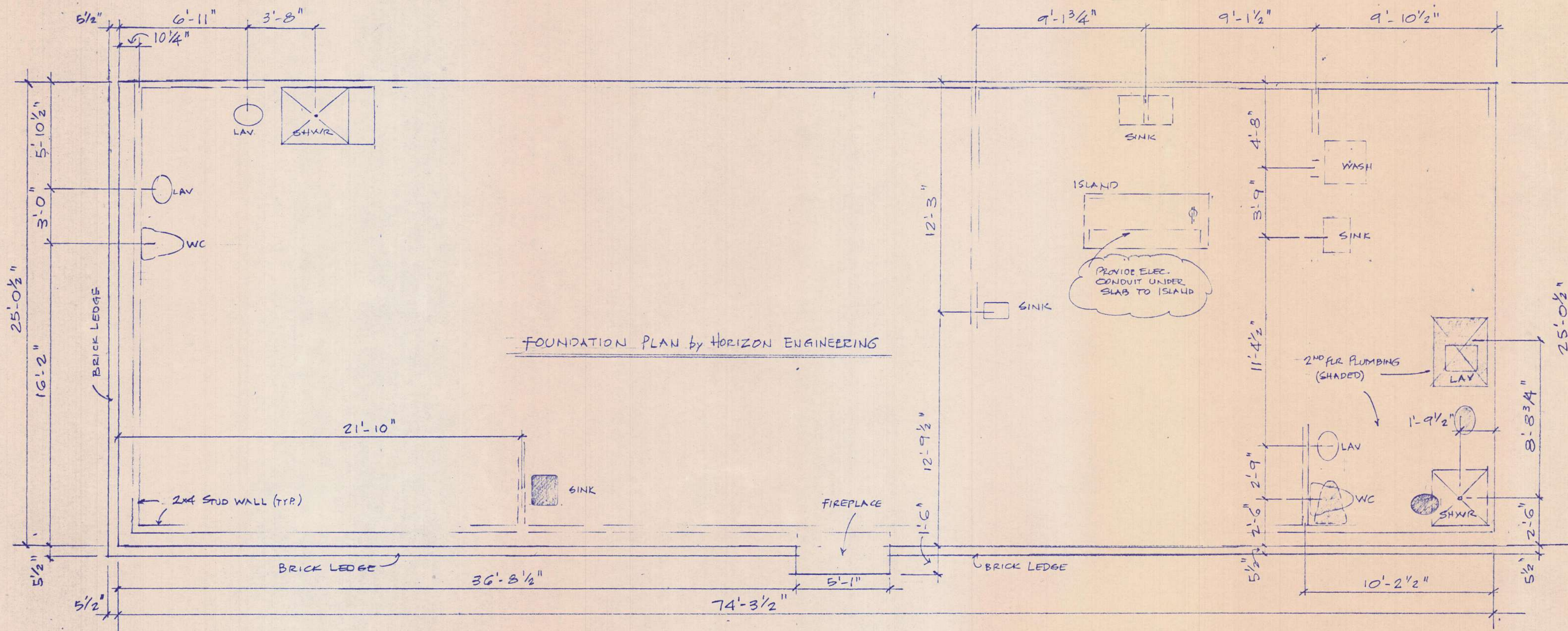
ADAMS DESIGNERS

1726 SOUTH RICHEY
PASADENA, TEXAS 77502

(713) 473-3303

PLAN NO.		McDONALD	
DRAWN BY	DATE	DET	
TL	3/07		
CKD BY	ELEV	REV	DATE BY

SHEET
4



FOUNDATION PLAN by HORIZON ENGINEERING

NOTE:
PLUMBING CONTRACTOR TO CHECK
* VERIFY ALL DIMENSIONS SHOWN

1ST FLOOR PLUMBING LAYOUT

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



McDONALD RESIDENCE



To the best of my knowledge, these plans are drawn to comply with owner's specifications. Every attempt has been made in the preparation of drawings and specs to avoid mistakes. Contractor and/or owner shall verify all dimensions, details and specifications. Designer will not be liable for human error after construction is started.

The information, plans, specifications, and designs appearing in these drawings are the property of Adams Designers. Any unauthorized use or duplication in whole or in part is strictly prohibited.

ADAMS DESIGNERS
1726 SOUTH RICHEY
PASADENA, TEXAS 77502
(713) 473-3303

PLAN NO.			
McDONALD			
DRAWN BY	DATE	DET	
TL	3/07		
CKD BY	ELEV.	REV./DATE/BY	

