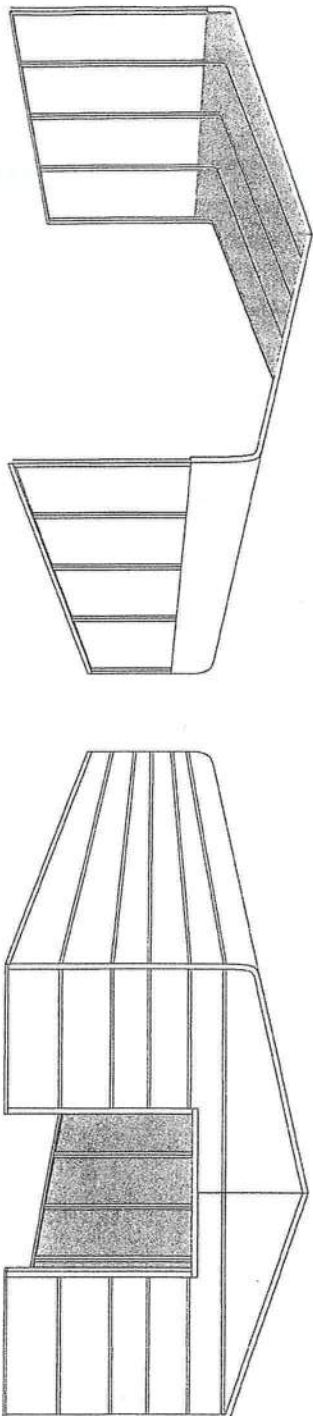


33

REGULAR / A-FRAME - VERTICAL / HORIZ.
12' thru 30' CARPORTS
(STATE OF FLORIDA)
AS PER DESIGN CRITERIA



DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH FBC 2010, OSHA, AISC, ASCE-10, AWS D 1.1 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON SHEET 9
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE TEKS #12 (1/4"x1").
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (7"-60K51) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE T52 1/2"x2 1/2" - 14GA. IS EQUIVALENT TO T52 1/4"x2 1/4" - 12GA AND EITHER ONE CAN BE USED IN LIEU OF THE OTHER

DESIGN CRITERIA

PREVAILING CODE: FBC 2010 / IBC 2012
2009 AMENDMENTS
USE GROUP: U (CARPORTS, BARN)S
BASIC WIND VELOCITY: 90 TO 160 MPH
(SEE SCHEDULE)
EXPOSURE CATEGORY: C
ROOF DEAD LOAD: 2.0 PSF
AS PER GROUND SNOW
ROOF LIVE LOAD: MAX. 20 PSF
GROUND SNOW LOAD: 0 TO 30 PSF
(SEE SCHEDULE)
IMPORTANCE FACTOR = SNOW 0.8
WIND 0.87
SEISMIC 1.0
SEISMIC DESIGN CATEGORY: A
LOAD COMBINATIONS:
DL+LL, 0.6DL+WL
DL+0.75LL+0.75WL

DRAWING INDEX

- 1.....COVER SHEET
- 2.....FLOOR PLAN
- 3.....REGULAR / AFRAME BLDG. SECTIONS
- 3A.....SCHEDULES
- 4.....SIDE ELEVATIONS
- 5.....SECTION DETAILS
- 6.....END WALL DETAILS
- 7.....OPENING DETAILS
- 8.....LEAN-TO OPTION
- 9.....ANCHORAGE

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CIVIL • STRUCTURAL
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5911 Renaissance Pl., Suite B
Toledo, Ohio 43623
T'd (419) 292-1983
Fax (419) 292-0955

TNT
Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Atry, NC 27030
1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER:
TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER: 039-12-0261

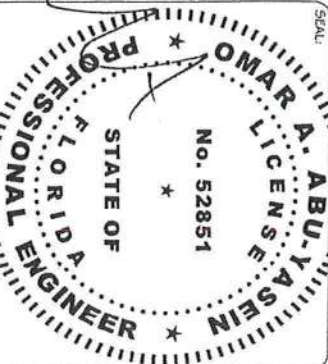
DRAWN BY: JMS

CHECKED BY: DA

DRAWING TITLE:

COVER SHEET

SHEET NO.: 1 OF 9



LICENSE EXPIRES: 2/26/2013
DATE SIGNED: 3/27/2012

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Toledo, Ohio 43623

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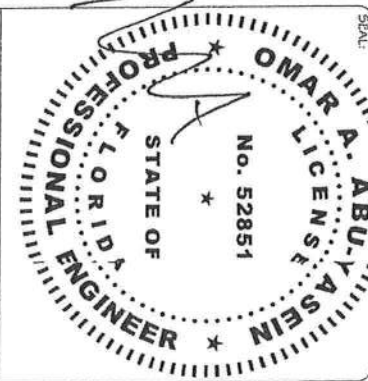
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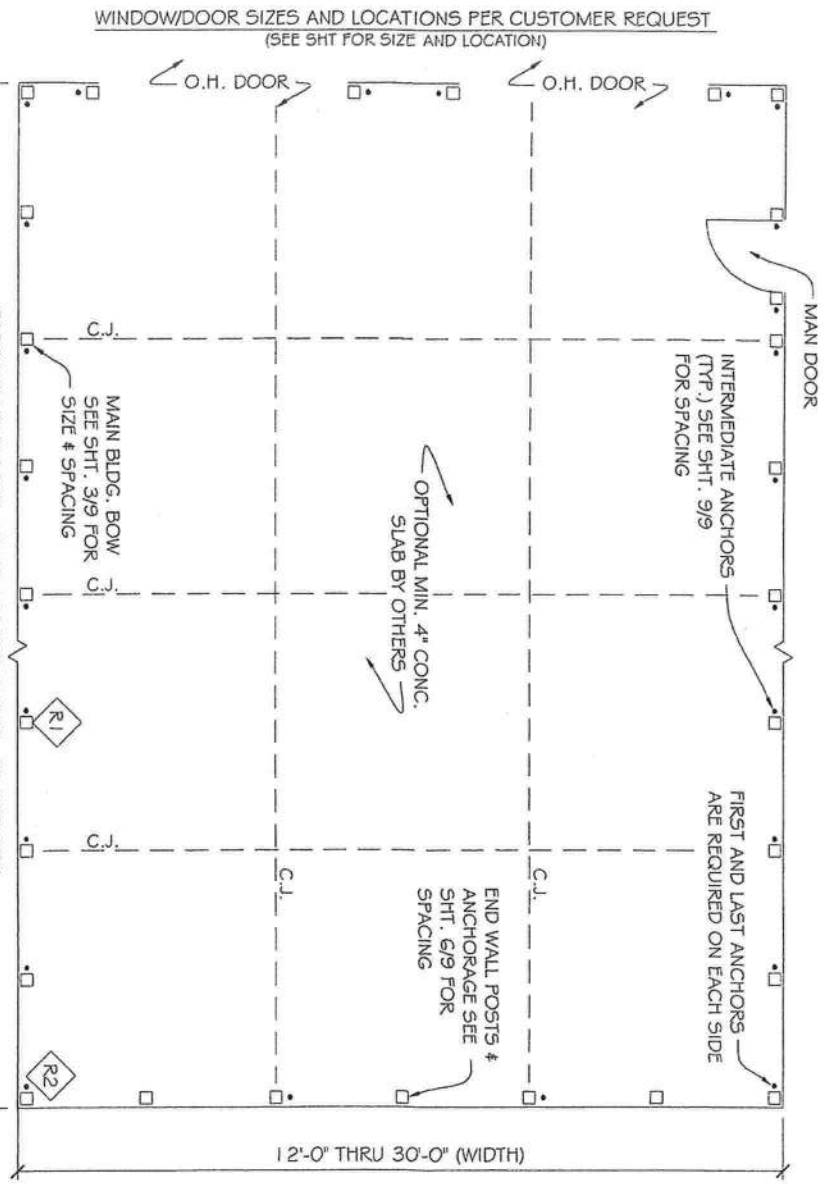
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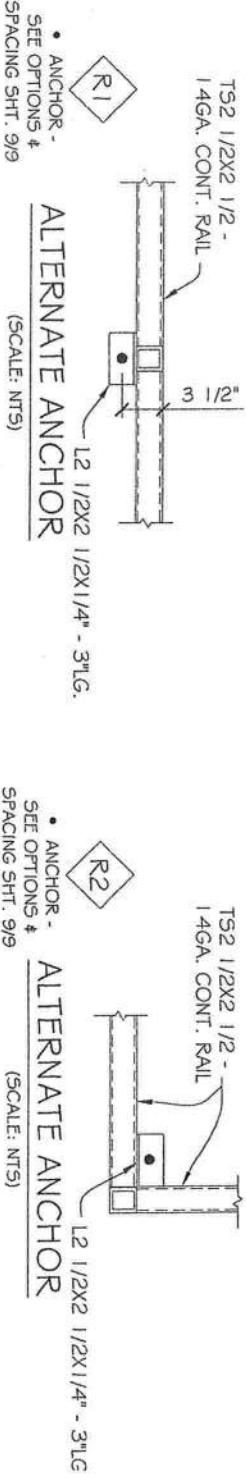
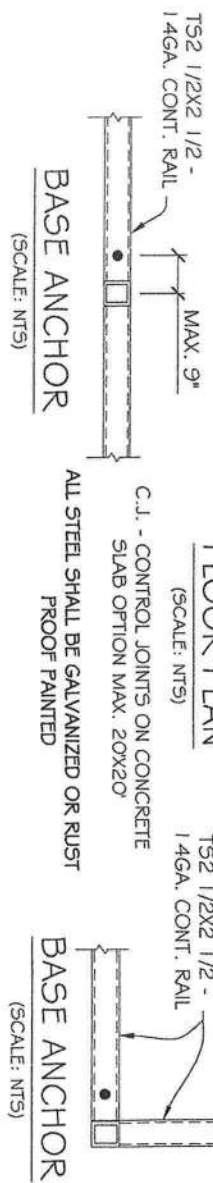
SHEET NO.: 2 OF 9



DATE SIGNED: 3/27/2012



FLOOR PLAN
(SCALE: NTS)





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Toledo, Ohio 43623
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TNT-FL

DATE:
3/27/2012

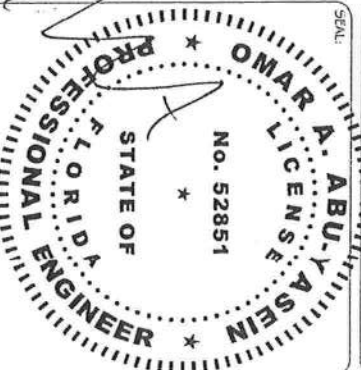
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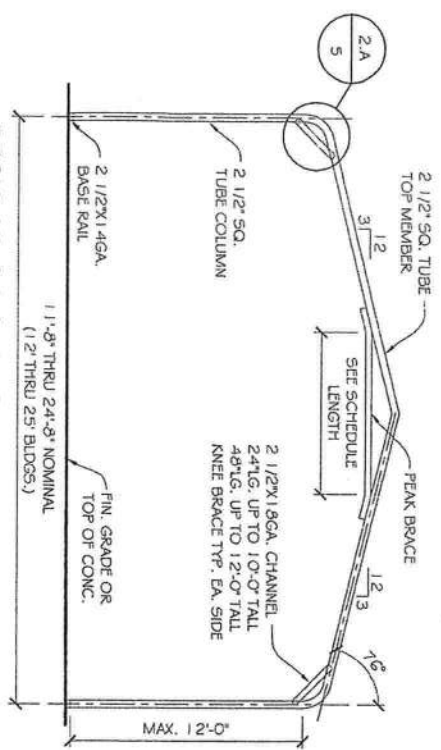
CHECKED BY:
OA

DRAWING TITLE:
TYP. BLDG. SECTION

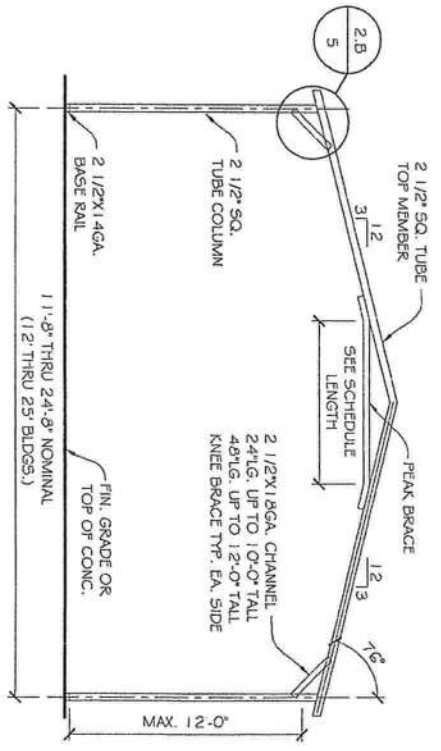
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3 OF 9



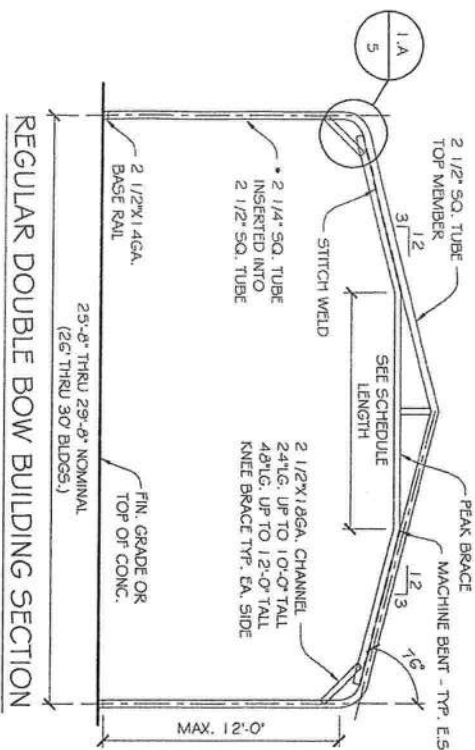
DATE SIGNED: **3/27/2012**



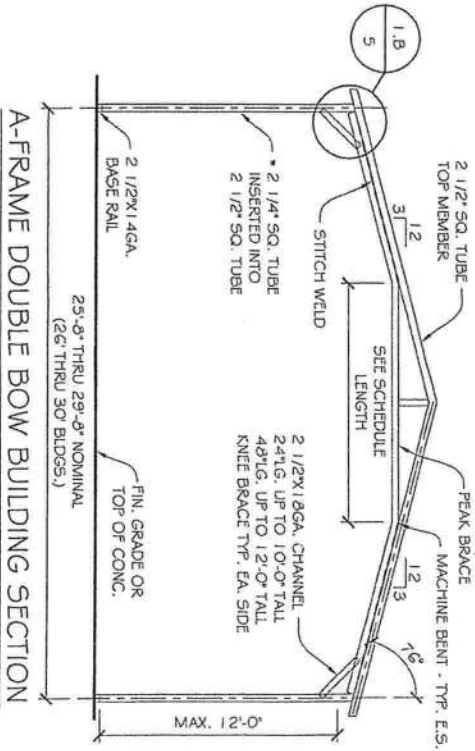
REGULAR SINGLE BOW BUILDING SECTION
(SCALE: NTS)



A-FRAME SINGLE BOW BUILDING SECTION
(SCALE: NTS)



REGULAR DOUBLE BOW BUILDING SECTION
(SCALE: NTS)



A-FRAME DOUBLE BOW BUILDING SECTION
(SCALE: NTS)

* INSERT TO BE FULL HEIGHT FIELD BOLT W/ TIES
#12X1" @ 12" C/C - STAGGER OPPOSITE FACE

ALL STRUCTURAL TUBING SHALL BE 1/4" OR HIGHER

BOW SCHEDULE (TOP & COLUMN MEMBERS SPACING)

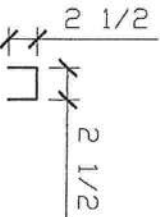
WIND		80 TO 100 (MPH)				101 TO 120 (MPH)				121 TO 150 (MPH)			
GS/L	POST HT.	BUILDING WIDTH				BUILDING WIDTH				BUILDING WIDTH			
		12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)	12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)	12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)
20/20	5'-0" TO 8'-0"	F 60"	60"	60"	60"	60"	60"	54"	54"	48"	48"	48"	48"
		P 54" (60")	60"	60"	60"	60"	54"	54"	54"	48" (54")	40"	40"	42"
		F 60"	54"	54"	54"	54" (60")	48" (54")	48"	42"	48" (54")	36"	36" (48")	30"
30/20	5'-0" TO 8'-0"	F 60"	60"	60"	60"	60"	60"	54"	54"	48" (54")	48" (54")	48" (54")	48"
		P 60"	54"	54"	54"	60"	60"	54"	54"	48" (54")	40"	40" (48")	40"
		F 54" (60")	54"	48"	54" (60")	48" (54")	42"	48"	42"	48" (54")	36"	36" (48")	30"
WIND	151 TO 160 (MPH)	P 54"	54"	48"	54"	42"	42"	48"	42"	36"	36"	30"	
		HIGHER VALUES WITHIN PARENTHESES CAN BE USED FOR VERTICAL SHEATHING ONLY											
GS/L	POST HT.	BUILDING WIDTH											
		12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)								
20/20	5'-0" TO 8'-0"	F 42" (48")	42" (48")	42" (48")	42"								
		P 42"	42"	42"	36"								
		F 40"	40"	40" (42")	40"								
30/20	5'-0" TO 8'-0"	F 42" (48")	42" (48")	42" (48")	42"								
		P 42"	42"	42"	36"								
		F 40"	40"	40" (42")	40"								
WIND	9'-0" TO 12'-0"	F 30"	30"	30" (42")	30"								
		P 30"	30"	30" (42")	30"								

HIGHER VALUES WITHIN PARENTHESES CAN BE USED FOR VERTICAL SHEATHING ONLY

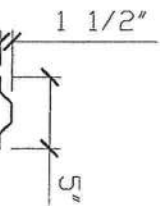
PEAK BRACE SCHEDULE

WIDTH	80-120 MPH	121-160 MPH	LENGTH
12	2 1/2" X 18GA. CHANNEL	2 1/2" X 14GA. CHANNEL	2'-0"
14	2 1/2" X 18GA. CHANNEL	2 1/2" X 14GA. CHANNEL	4'-0"
16	2 1/2" X 18GA. CHANNEL	2 1/2" X 14GA. CHANNEL	6'-0"
18	2 1/2" X 18GA. CHANNEL	2 1/2" X 14GA. CHANNEL	6'-0"
20-22	2 1/2" X 14GA. SQ. TUBE	2 1/2" X 14GA. SQ. TUBE	10'-0"
24-26	2 1/2" X 14GA. SQ. TUBE	2 1/2" X 14GA. SQ. TUBE	14'-0"
28-30	2 1/2" X 14GA. SQ. TUBE	2 1/2" X 14GA. SQ. TUBE	16'-0"

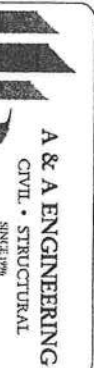
F = FULLY ENCLOSED (CLOSED)
P = PARTIALLY ENCLOSED (OPEN)
G.S. = GROUND SNOW
L.L. = LIVE LOAD



CHANNEL PROFILE



HAT CHANNEL PROFILE



5911 Renaissance Pl., Suite B
Toledo, Ohio 43623
Tel: (419) 292-1983
Fax: (419) 292-0955



Metal Buildings Inc.

170 Holly Springs Rd.
Mr. Airy, NC 27030

1-800-597-3397
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER:

TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER: 039-12-0261

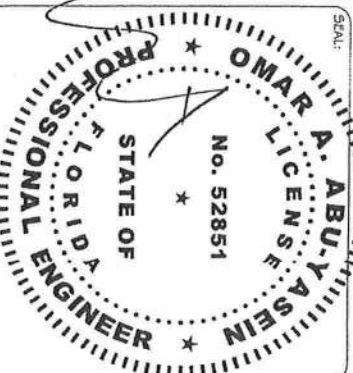
DRAWN BY: JMS

CHECKED BY: OA

DRAWING TITLE:

SCHEDULES

SHEET NO.: 3A OF 9



DATE SIGNED: 3/27/2012



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039-12-0261

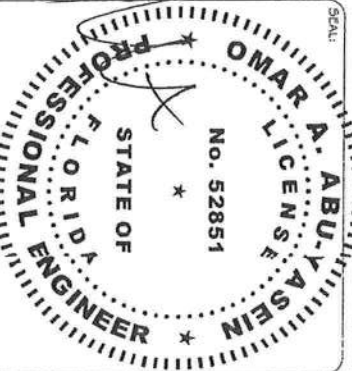
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CHECKED BY: OA

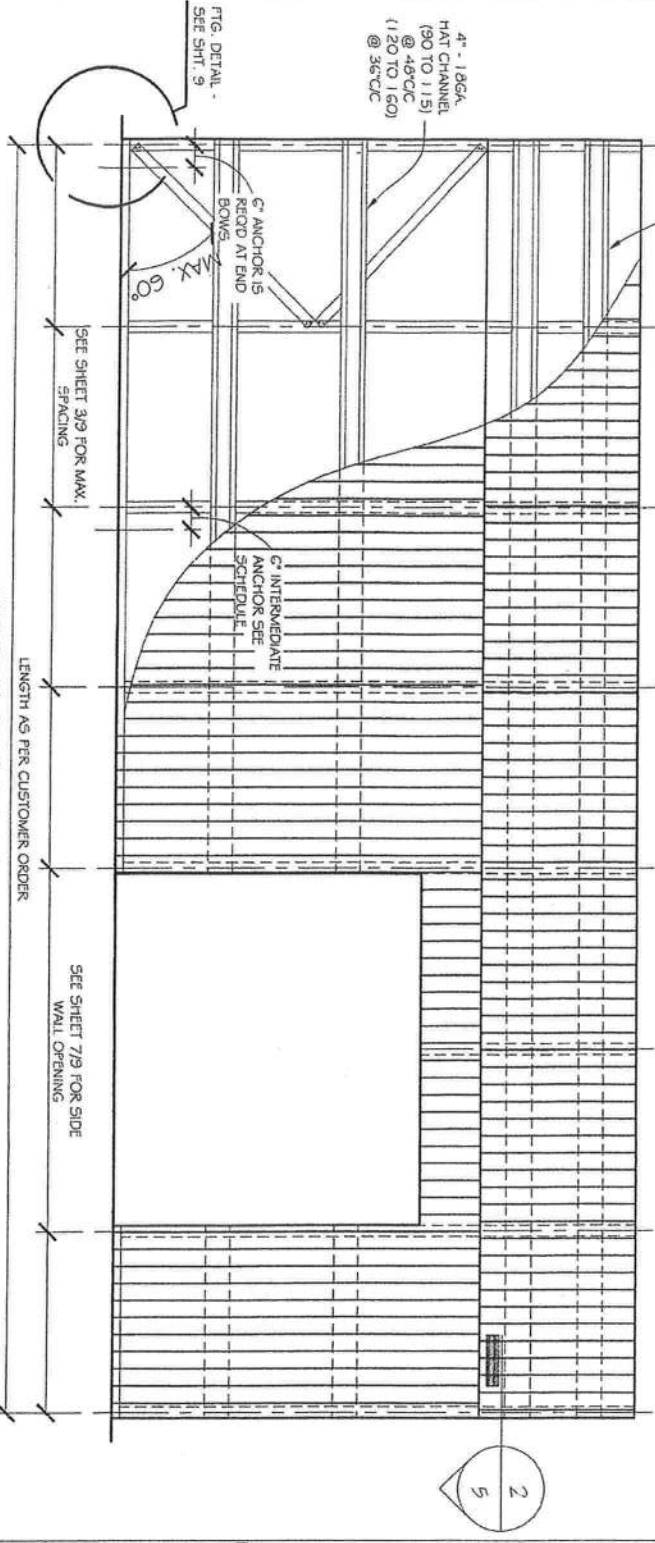
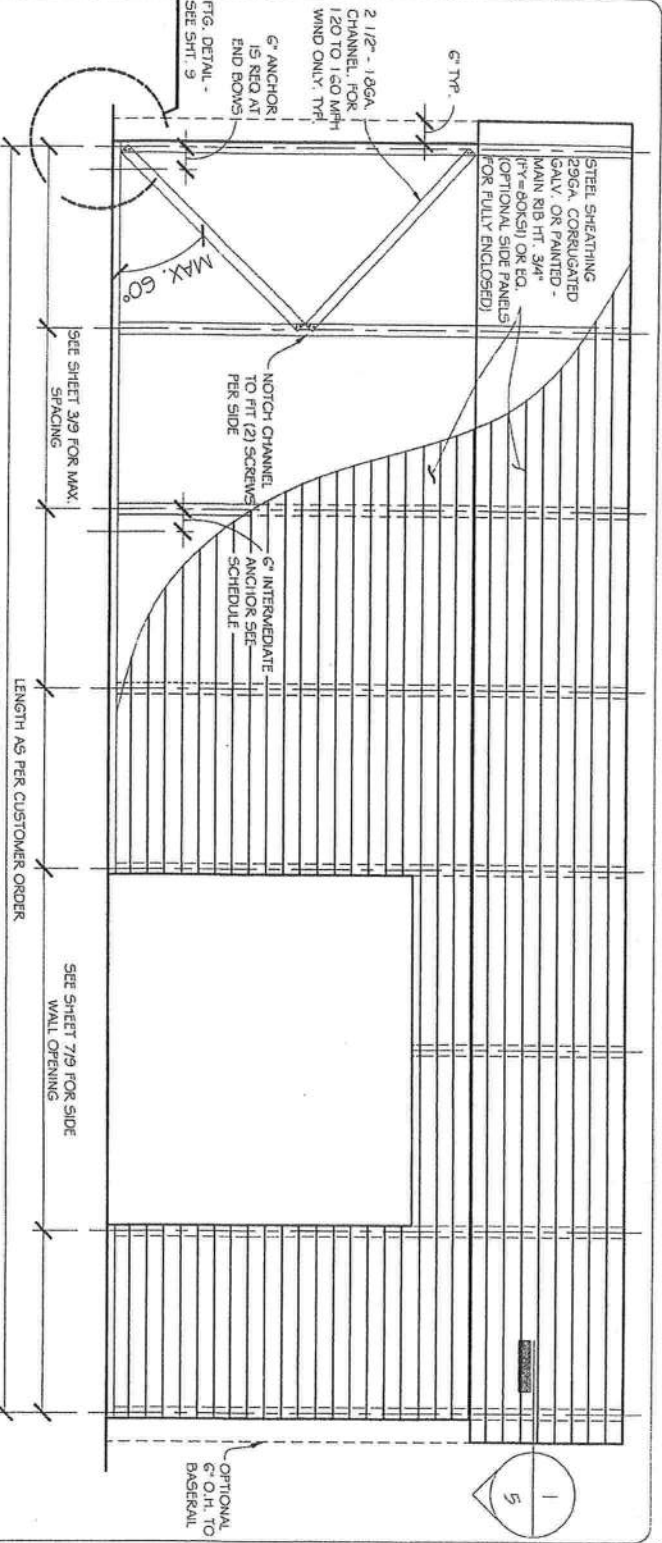
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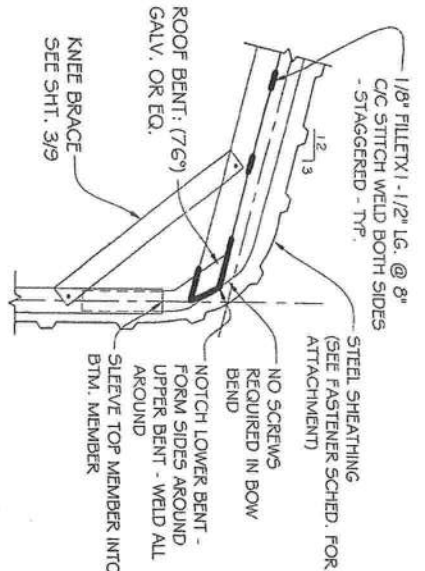
SIDE ELEVATIONS

SHEET NO.: 4 OF 9

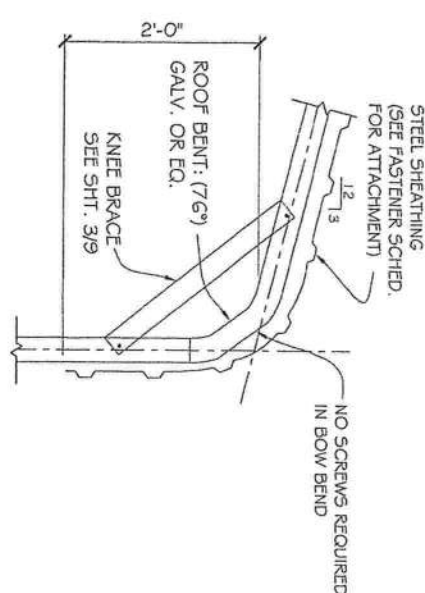


DATE SIGNED: 3/27/2012



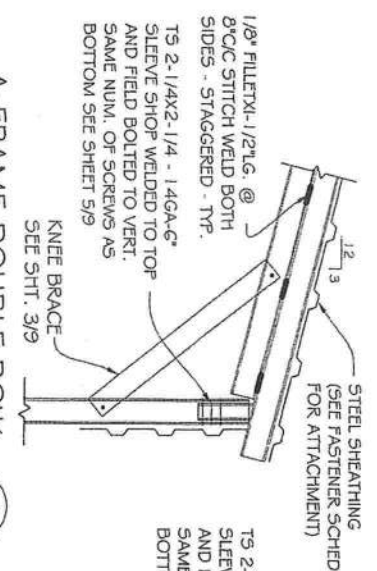


REGULAR DOUBLE BOW
SECTION DETAIL
(SCALE: NTS)
1.A
3

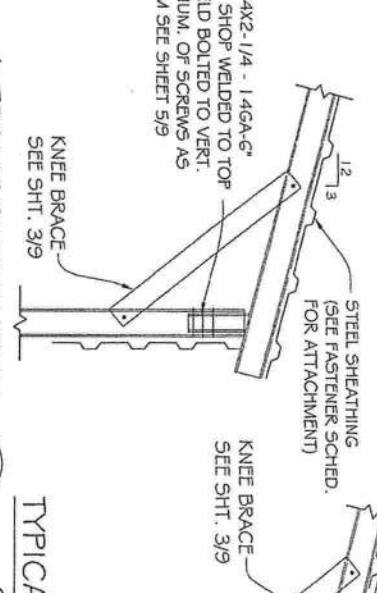


REGULAR SINGLE BOW
SECTION DETAIL
(SCALE: NTS)
2.A
3

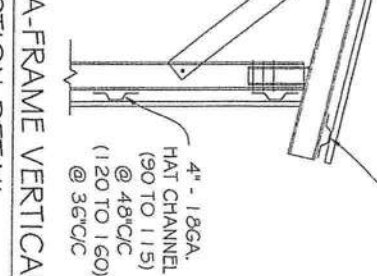
PURLIN SCHED.		
GROUND SNOW LOAD PSF	HAT CHANNEL SPACING	
20	48" CC	
30	42" CC	
36" CC FOR OVER		MAX. 115 MPH



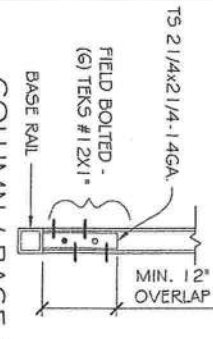
A-FRAME DOUBLE BOW
SECTION DETAIL
(SCALE: NTS)
1.B
3



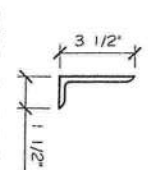
A-FRAME SINGLE BOW
SECTION DETAIL
(SCALE: NTS)
2.B
3



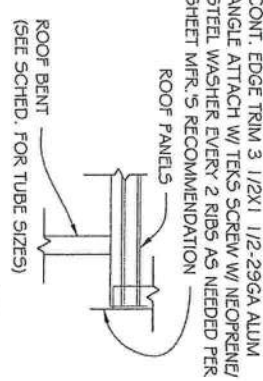
TYPICAL A-FRAME VERTICAL
SECTION DETAIL
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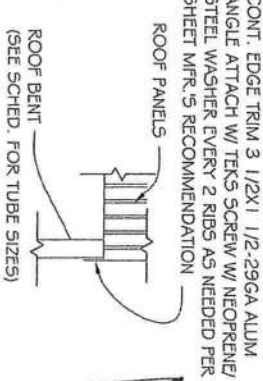
COLUMN / BASE RAIL
DETAIL
(SCALE: NTS)



TRIM DETAIL
(SCALE: NTS)



EDGE DETAIL
(SCALE: NTS)
1
4



EDGE DETAIL
(SCALE: NTS)
2
4

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Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955

TNT

Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Atry, NC 27030

1-800-597-3397
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER: TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

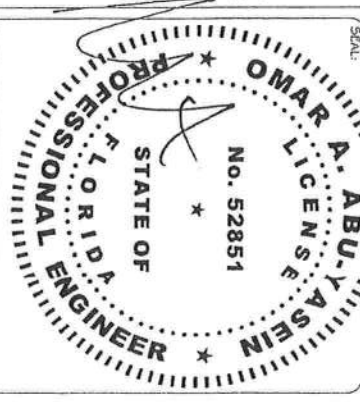
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DRAWN BY: JMS

CHECKED BY: OA

DRAWING TITLE: SECTION DETAILS

SHEET NO.: 5 OF 9



DATE SIGNED: 3/27/2012

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Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955

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170 Holly Springs Rd.
Mt. Airy, NC 27033

1-800-597-3597
MAIN - 1-336-789-3818
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TNT METAL BUILDING, INC.

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DRAWING NO.:
TNT-FL

DATE:
3/27/2012

PROJECT NUMBER:
039-12-0261

DRAWN BY:
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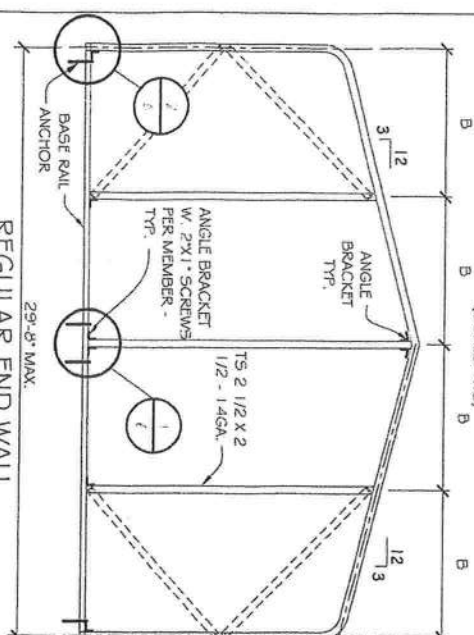
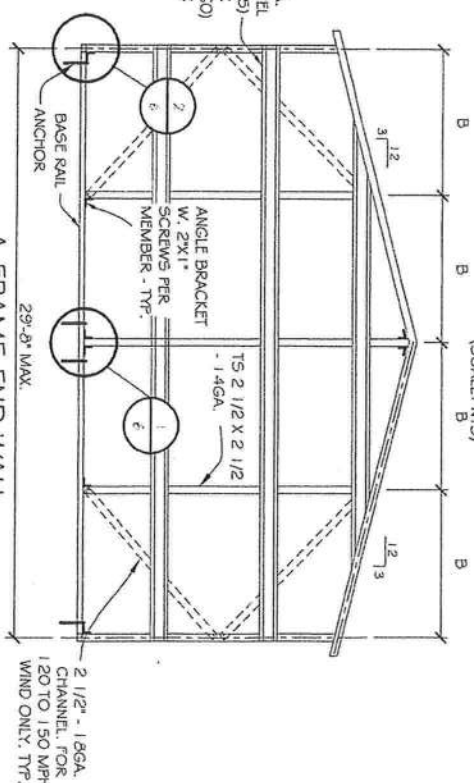
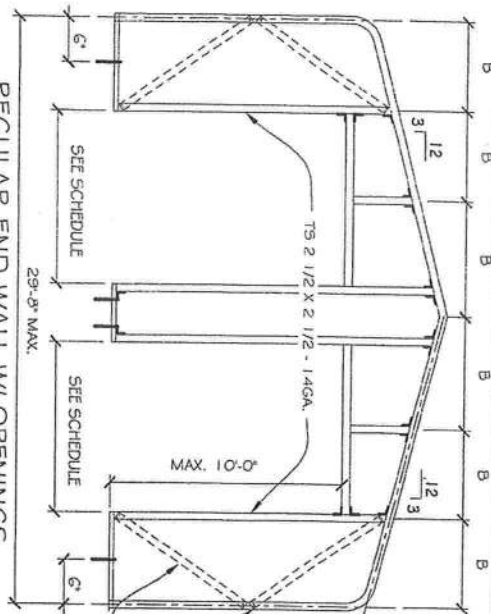
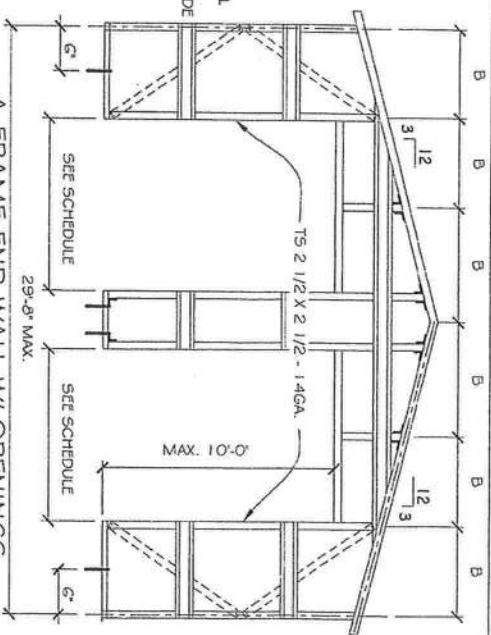
DRAWING TITLE:
END WALL DETAILS

SHEET NO.:
6 OF 9

SEAL:

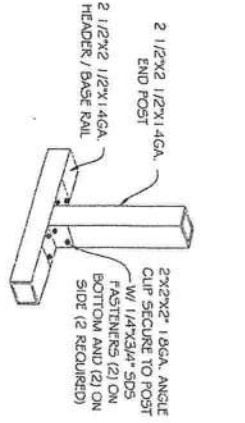
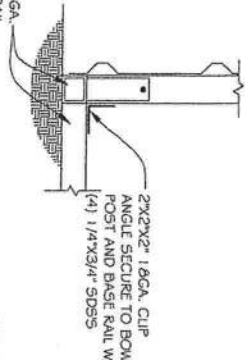
OMAR ABU-YASEIN
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012



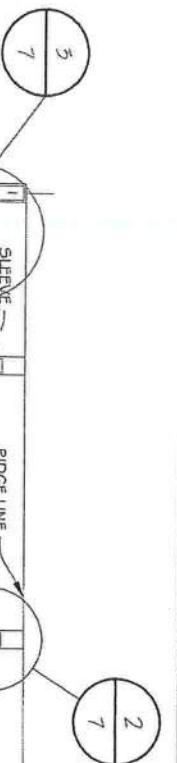
MAX. END WALL OPENING
(SCALE: NTS)

CARPORT WIDTH	MAX. DOOR WIDTH	HEADER SIZE
12'-16'	8'	TS 2 1/4 X 2 1/4 - 14GA.
18'	10'	TS 2 1/4 X 2 1/4 - 14GA.
20'-22'	12'	TS 2 1/4 X 2 1/4 - 14GA.
24'-30'	14'	DBL TS 2 1/4 X 2 1/4 - 14GA.



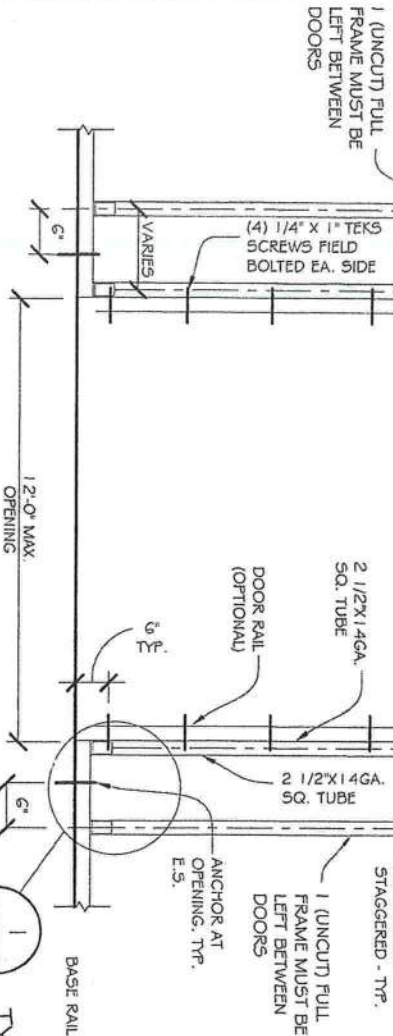
MAX. POST SPACING "B" (END WALL SCHEDULE)

WIND	POST SPACING "B"	ANCHORS
90 - 120	5'-0" C/C	EVERY OTHER BAY "B"
121 - 150	4'-0" C/C	EVERY BAY "B"
151 - 160	3'-6" C/C	EVERY BAY "B"



TYPICAL 30X30 WINDOW FRAMING

(SCALE: NTS)



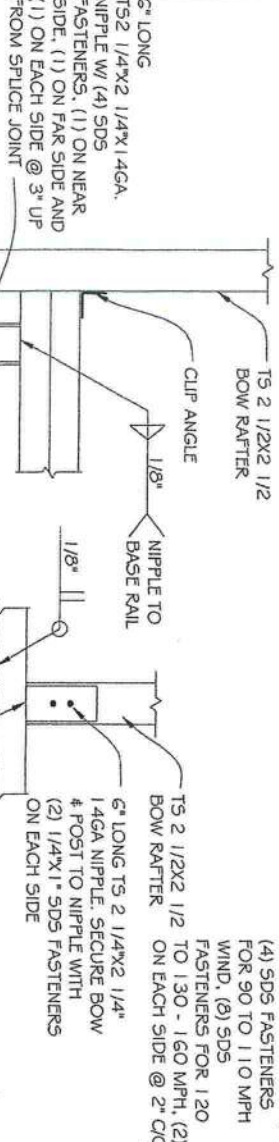
TYPICAL FRAMING AT SIDE OPENINGS

(SCALE: NTS)

TYPICAL MAN DOOR FRAMING

(SCALE: NTS)

DOOR & WINDOWS SIZES ARE PER CUSTOMERS ORDER



BOW/POST DETAIL

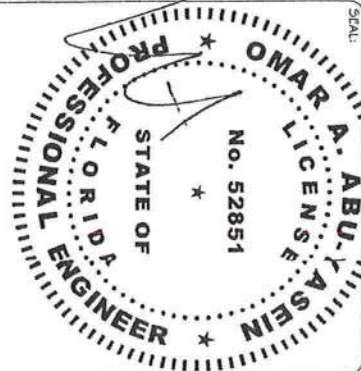
(SCALE: NTS)

BOW/BASE RAIL CONN. DETAIL

(SCALE: NTS)

BOW/HEADER DETAIL

(SCALE: NTS)



DATE SIGNED: 3/27/2012

OWNER:	TNT METAL BUILDING, INC.
LOCATION:	FLORIDA
DRAWING NO.:	TNT-FL
DATE:	3/27/2012
PROJECT NUMBER:	039-12-0261
DRAWN BY:	JMS
CHECKED BY:	OA
DRAWING TITLE:	SIDE WALL OPENING DETAILS
SHEET NO.:	7 OF 9

TNT

Metal Buildings Inc.

170 Holly Springs Rd.
Mr. Atry, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

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Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955

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CIVIL • STRUCTURAL
SINCE 1986

5911 Renaissance Pl., Suite B
Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955

T-N-T
Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Ary, NC 27030

1-800-597-3597
MAIN - 1-336-789-5818
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OWNER: TNT METAL BUILDING, INC.

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DATE: 3/27/2012

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CHECKED BY: OA

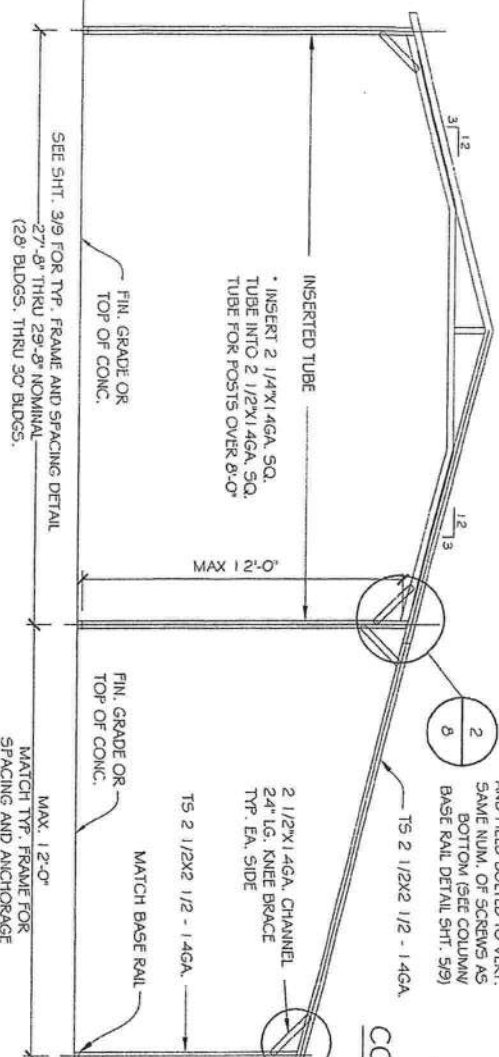
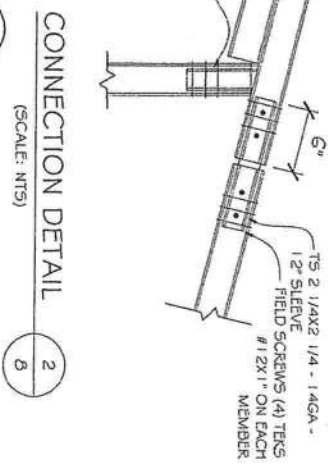
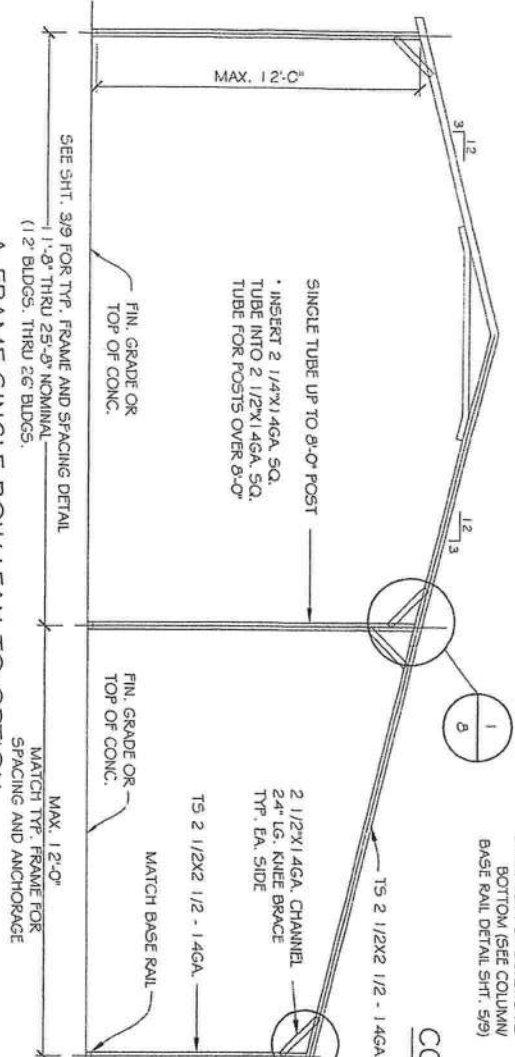
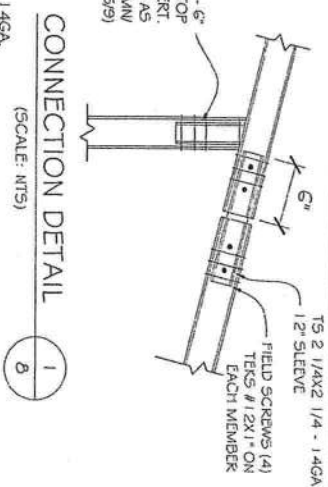
DRAWING TITLE: LEAN-TO OPTION

SHEET NO.: 8 OF 9

SEAL

OMAR ABU-YASEIN
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012



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Tel: (419) 292-1983
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Mt. Airy, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER: TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER: 039-12-0261

DRAWN BY: JMS

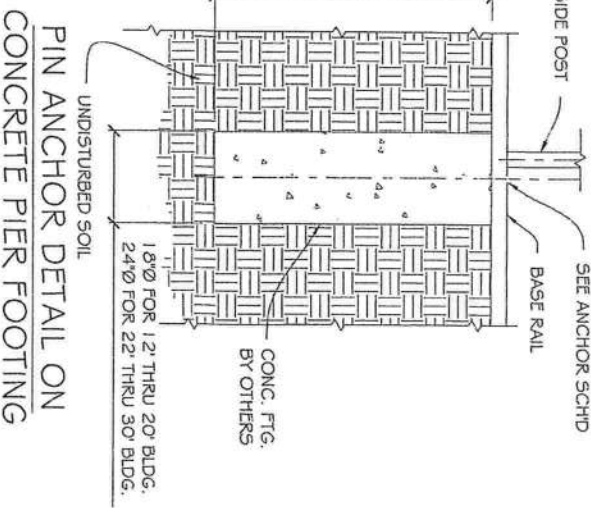
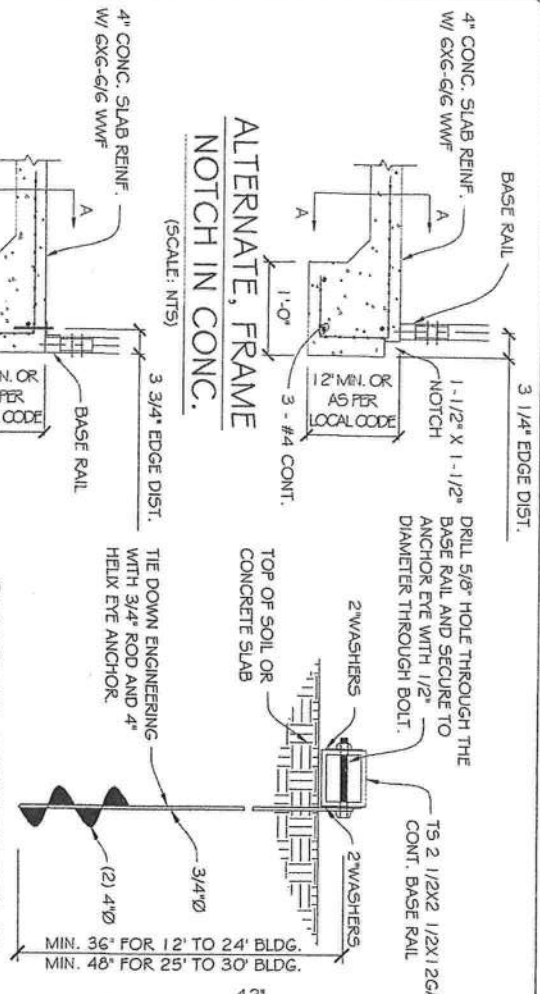
CHECKED BY: OA

DRAWING TITLE: ANCHORAGE OPTIONS

SHEET NO.: 9 OF 9

SEAL: **OMAR A. ABU-ALASEIN**
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012



NOTE: ON LEVEL GRADE, DIG A 24" Ø HOLE 42" DEEP AT EACH ANCHOR POINT. REPOSITION BASE RAILS OVER HOLES AND DROP A GROUND ANCHOR THROUGH EACH HOLE IN BASE RAILS. FILL EACH HOLE W/ 2500 PSI CONCRETE.

SOIL CLASSIFICATIONS:

SOIL CLASS	SOIL DESCRIPTION
1	VERY DENSE & / OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, COLICHE, PRELOADED SILT AND CLAYS
2	MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS
3	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS
4	ALLUVIAL FILL AND VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL

HEMICAL ANCHOR SHALL BE APPROVED FOR USE IN SOIL CLASSIFICATIONS 2, 3, AND 4.

TAKEN FROM HUD STANDARD FOR INSTALLATION OF MOBILE HOMES

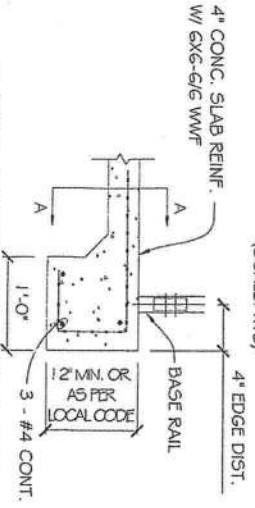
- NOTE:
- 1: SEE SHT. 2 AND 6 FOR ANCHOR REQUIREMENTS
 - 2: ASSUMED SOIL BEARING CAPACITY IS 1500 PSF
 - 3: CONCRETE STRENGTH TO BE 2500PSI AT 28 DAYS

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		BASE ANCHOR	ANCHOR LENGTH	TYPE
	WIND (MPH)	WIND (MPH)			
12' THRU 22'	90-115	120-160	20"	20"	THRD. ROD EMBED IN CONG. INSERT W/ EPOXY IN CONG. EXPANSION BOLTS
23' THRU 30'	5/8" Ø	3/4" Ø	7"	5"	WEDGE ANCHORS IN CONG.

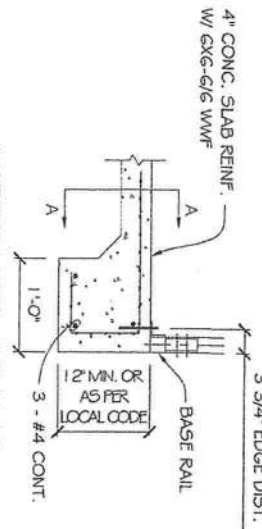
BASE OPTIONAL ANCHOR ON CONG. SLAB SECTION

(SCALE: NTS)



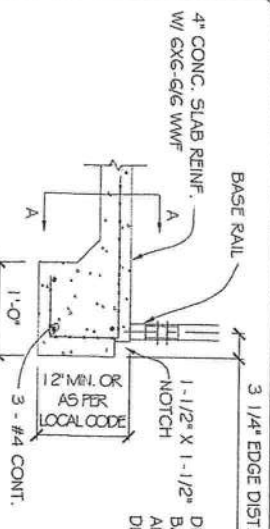
ALTERNATE, FRAME FLUSH W/ CONG.

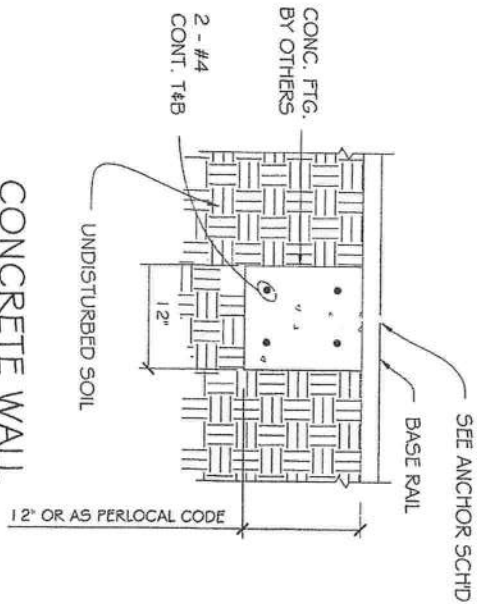
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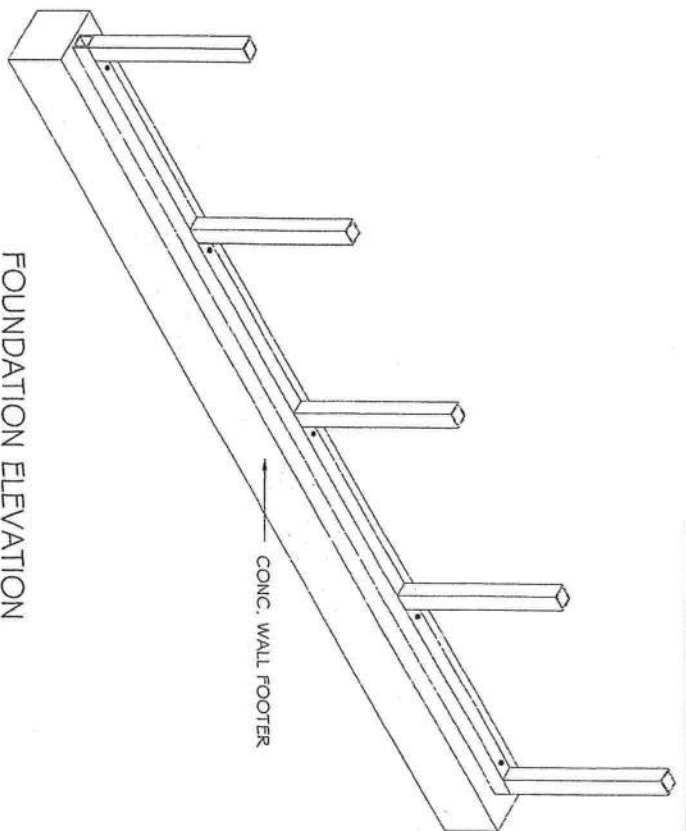
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CONCRETE WALL FOOTING SECTION

SCALE: NTS
TYP. AT EVERY ANCHORED POST



FOUNDATION ELEVATION

(SCALE: NTS)

- NOTES:
1. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. 1,500 PSF
 2. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI AT 28 DAYS

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		ANCHOR LENGTH		TYPE
	WIND (MPH)		BASE ANCHOR	ALTERNATE ANCHOR	
12' THRU 22'	90-115	120-160	7"	5"	INSERT W/ EPOXY IN CONC. EXPANSION BOLTS WEDGE ANCHORS IN CONC.
	112-120	5/8"			
23' THRU 30'	5/8"	3/4"			

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5911 Renaissance Pl., Suite B
Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0555

T-N-T
Metal Buildings Inc.
170 Holly Springs Rd.
Mt. Airy, NC 27030

1-800-597-3597
MAIN - 1-336-785-3818
FAX - 1-336-789-4122

OWNER:
TNT METAL BUILDING, INC.

LOCATION:
FLORIDA

DRAWING NO.:
TNT-FL

DATE:
3/27/2012

PROJECT NUMBER:
039-12-0261

DRAWN BY:
JMS

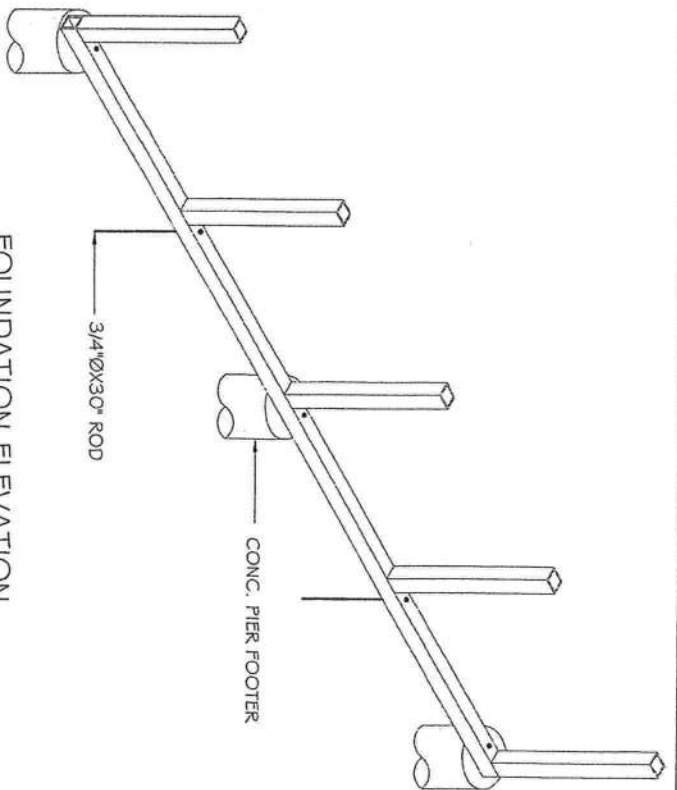
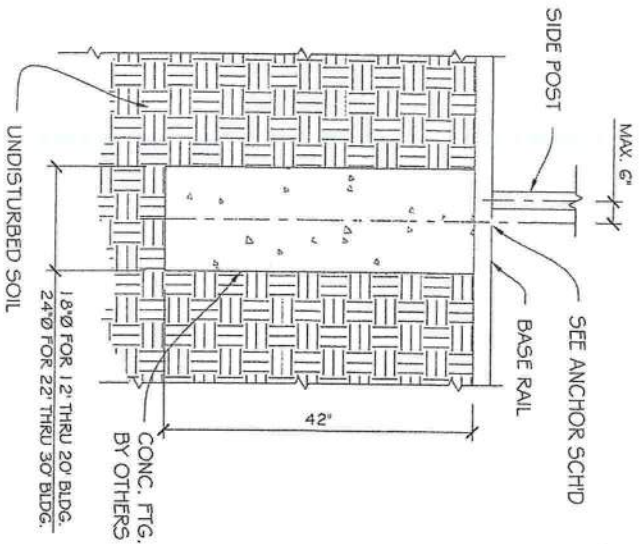
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DRAWING TITLE:
ANCHORAGE OPTION
ON CONC. WALL

SHEET NO.:
9 OF 9

SEAL: **OMAR A. ABU-YASEIN**
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012



FOUNDATION ELEVATION

(SCALE: NTS)

NOTES:

1. CONCRETE PIERS SHALL BE REQUIRED AT ALL CORNER POSTS AND AT EVERY OTHER POST BUT SHALL NOT EXCEED 10-0\"/>

PIN ANCHOR DETAIL ON
CONCRETE PIER FOOTING

SCALE: NTS
TYP. AT EVERY ANCHORED POST

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		ANCHOR LENGTH		TYPE
	WIND (MPH)		ANCHOR	ALTERNATE ANCHOR	
12' THRU 22'	90-115	120-160	20'	20'	THRD. ROD EMBED IN CONC. INSERT W/ EPOXY IN CONC. EXPANSION BOLTS WEDGE ANCHORS IN CONC.
23' THRU 30'	5/8"	3/4"	7'	5'	

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5911 Renaissance Pl., Suite B
Toledo, Ohio 43623
Tel: (419) 292-1983
Fax: (419) 292-0955

TNT
Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Atry, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER:

TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER:

039-12-0261

DRAWN BY: JMS

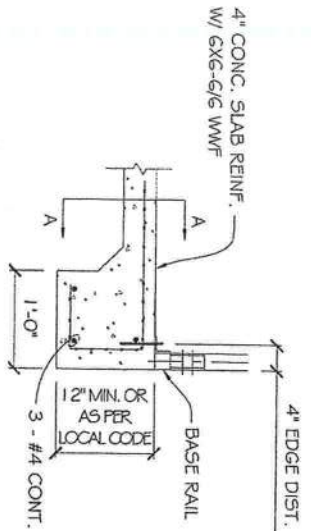
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DRAWING TITLE:
ANCHORAGE OPTION
ON CONC. PIERS

SHEET NO.: 9 OF 9

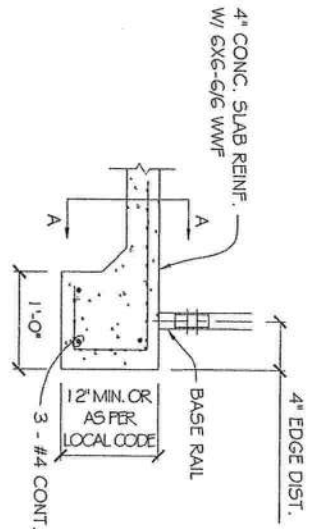


DATE SIGNED: 3/27/2012



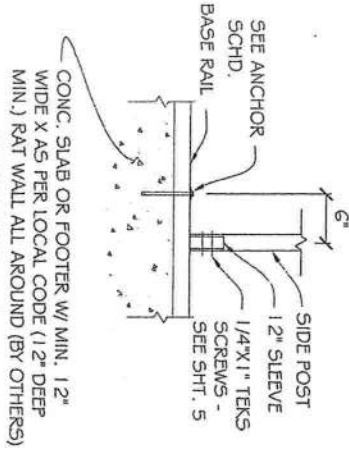
ALTERNATE, FRAME FLUSH W/ CONC.

(SCALE: NTS)



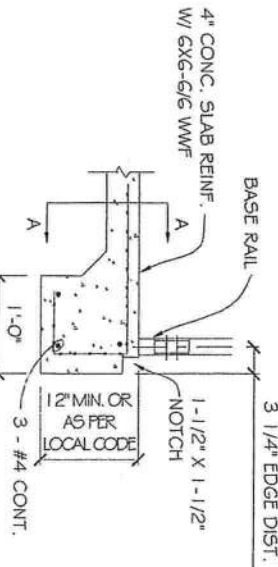
BASE OPTIONAL ANCHOR ON CONC. SLAB SECTION

(SCALE: NTS)



SECTION A-A

(SCALE: NTS)



ALTERNATE, FRAME NOTCH IN CONC.

(SCALE: NTS)

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		ANCHOR LENGTH		
	WIND (MPH)		BASE ANCHOR	ALTERNATE ANCHOR	TYPE
	90-115	120-160			
12' THRU 22'	1/2"	5/8"	7"	5"	INSERT W/ EPOXY IN CONC. EXPANSION BOLTS
23' THRU 30'	5/8"	3/4"			WEDGE ANCHORS IN CONC.

NOTE:

1. PROVIDE A MIN. OF (1) ANCHOR AT ±6" FROM CENTER OF EACH POST
2. ALL ANCHORS SHALL BE A307 OR BETTER
3. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. 1500 PSF
4. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI AT 28 DAYS



5911 Renaissance Pl., Suite B
Toledo, Ohio 43623
Tel: (419) 292-1983
Fax: (419) 292-0955



Metal Buildings Inc.
170 Holly Springs Rd.
Mt. Airy, NC 27030
1-800-597-3597
MAIN - 1-336-789-3818
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OWNER:

TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER:

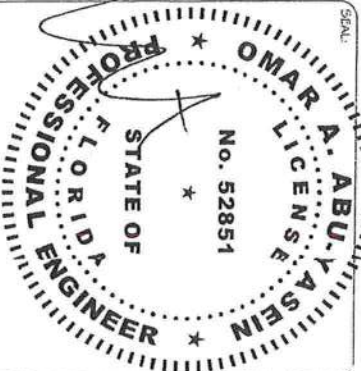
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DRAWN BY: JMS

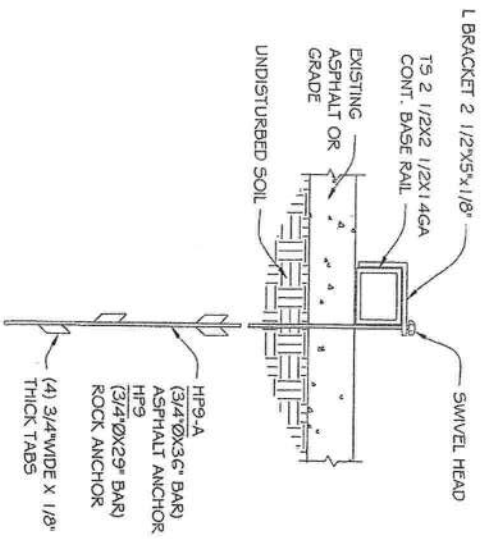
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DRAWING TITLE:
ANCHORAGE OPTION ON CONC. SLAB

SHEET NO.: 9 OF 9

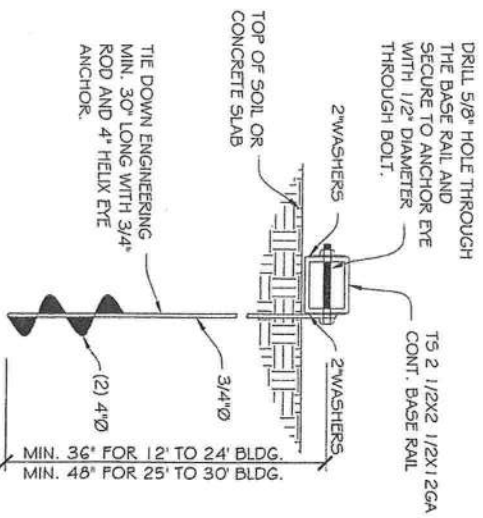


DATE SIGNED: 3/27/2012



OPTIONAL ASPHALT/ ROCK ANCHOR DETAIL

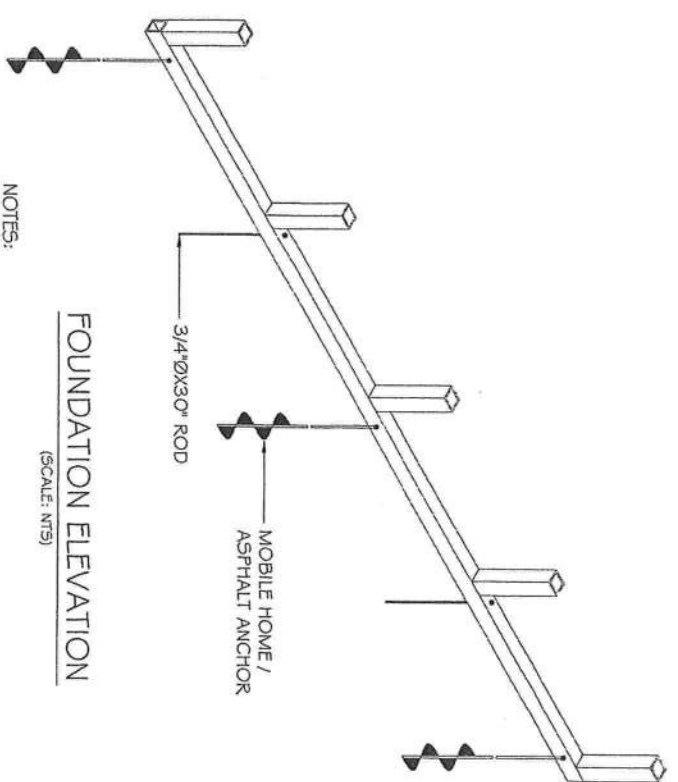
(SCALE: NTS)



OPTIONAL MOBILE HOME ANCHOR FOR SAND/CLAY

(SCALE: NTS)

NOTE:
HELICAL ANCHORS ARE NOT TO BE USED IF DRIVING TORQUE INTO GROUND IS LESS THAN 150 FT-LBS OR DON'T MEET ONE OF THE FOLLOWING SOIL CLASSIFICATIONS.



FOUNDATION ELEVATION

(SCALE: NTS)

- NOTES:
1. MOBILE HOME ANCHORS SHALL BE REQUIRED AT ALL CORNER POSTS AND AT EVERY OTHER POST BUT SHALL NOT EXCEED 10'-0" C/C SPACING IN ANY DIRECTION.
 2. ALL OTHER POSTS WITH NO MOBILE HOME ANCHOR SHALL BE ANCHORED TO THE GROUND WITH 3/4"x30" L.G. ROD. RODS SHALL HAVE A WELDED NUT AT TOP AND ONE COAT OF RUST PROVE PRIMER PAINT.
 3. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. 1,500 PSF CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI AT 28 DAYS
 - 4.

SOIL CLASSIFICATIONS:

SOIL CLASS	SOIL DESCRIPTION
2	VERY DENSE #1 OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, COLICHE, PRELOADED SILT AND CLAYS
3	MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL AND VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL.

HELICAL ANCHOR SHALL BE APPROVED FOR USE IN SOIL CLASSIFICATIONS 2, 3, AND 4.

*TAKEN FROM HUD "STANDARD FOR INSTALLATION OF MOBILE HOMES"

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5911 Renaissance Pl., Suite B
Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955

T-N-T
Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Atty, NC 27030

1-800-597-3397
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER: **TNT METAL BUILDING, INC.**

LOCATION: **FLORIDA**

DRAWING NO.: **TNT-FL**

DATE: **3/27/2012**

PROJECT NUMBER: **039-12-0261**

DRAWN BY: **JMS**

CHECKED BY: **OA**

DRAWING TITLE: **ANCHORAGE OPTION ON GROUND**

SHEET NO.: **9 OF 9**

SEAL: **OMAR A. ABU-YASEIN**
No. 52851
STATE OF **FLORIDA**
PROFESSIONAL ENGINEER

DATE SIGNED: **3/27/2012**