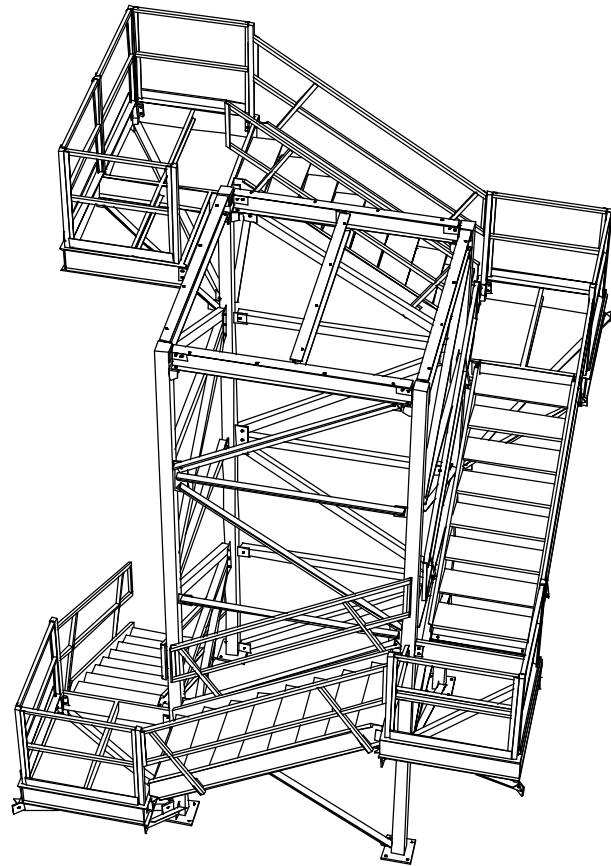


ASSEMBLY DRAWINGS FOR A 8'-0" W X 21'-0" H X 8'-0" L MEZZANINE STRUCTURE FOR

DEALER:

JOB NAME:

LOCATION:

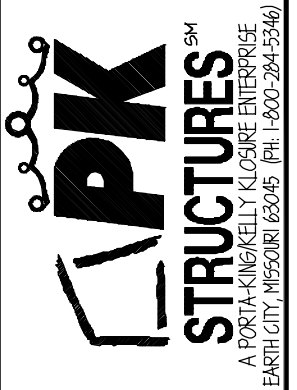



IMPORTANT MANUFACTURER'S DISCLAIMERS

- 1) THE MANUFACTURER HAS DESIGNED AND ENGINEERED THIS SYSTEM SPECIFICALLY, AS STATED IN THE MEZZANINE NOTES SECTION. VARIATIONS AND/OR MODIFICATIONS TO THE SYSTEM OR COMPONENTS WILL VOID AND NULLIFY ANY AND ALL WARRANTIES, BOTH WRITTEN AND/OR IMPLIED, AND LIABILITY FOR DEFECTS IN THIS SYSTEM AND ITS COMPONENTS. MANUFACTURER FURTHER ACCEPTS NO RESPONSIBILITY AND/OR LIABILITY FOR OBTAINING OR MAINTAINING AN LOCAL, REGIONAL OR NATIONAL BUILDING PERMITS, INSPECTIONS OR DOCUMENTS THAT MAY BE REQUIRED.
- 2) THIS MEZZANINE HAS (OR WILL BE) ENGINEERED STRUCTURALLY ONLY. IT IS THE RESPONSIBILITY OF THE BUYER TO VERIFY THAT WHEN THIS MEZZANINE IS INSTALLED, THE BUILDING THAT HOUSES IT COMPLIES WITH LOCAL SAFETY CODES WHICH ADDRESS INGRESS, EGRESS, FIRE RATINGS, SPRINKLERS, ETC.

MEZZANINE NOTES

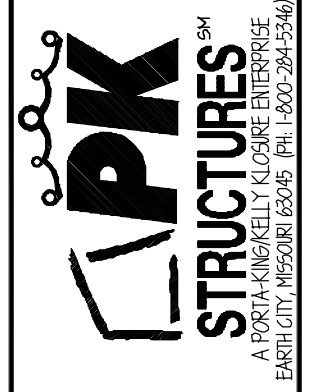
- 1) STRUCTURE:
 - A) MEZZANINE LOCATION:
 - B) THE STRUCTURE OF THIS MEZZANINE HAS BEEN DESIGNED IN CONFORMANCE WITH THE APPLICABLE BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE (2003 IBC) AS OF THE DATE OF THIS DRAWING USING THE FOLLOWING LOADS:
 - a) LIVE LOAD = 50 PSF W DEFLECTION LESS THAN L/360
 - b) DEAD LOAD = 35 PSF
 - c) SEISMIC: DESIGN CATEGORY A
 - d) WIND LOAD: 90 MPH (3 SECOND GUST) - EXPOSURE C
 - e) SNOW LOAD: 20 PSF ROOF LOAD
 - C) THE IBC IS A COMBINED EFFORT OF THE THREE MODEL CODE GROUPS. REPRESENTATIVES OF BOCA, ICBO AND SBCCI DRAFTED IBC. ICBO PUBLISHES THE UNIFORM BUILDING CODE (UBC) AND SBCCI PUBLISHES THE STANDARD BUILDING CODE. THE IBC IS INTENDED TO BE A COMPREHENSIVE SET OF REGULATIONS FOR BUILDING SYSTEMS CONSISTENT WITH AND INCLUSIVE OF THE LATEST EXISTING MODEL BUILDING CODES.
- 2) FOUNDATION RESPONSIBILITY:
 - A) FOUNDATIONS MAY BE EXISTING CONCRETE FLOOR SLAB OR ISOLATED CONCRETE FOOTINGS. THE STRUCTURAL CAPACITY OF THE FOUNDATION IS TO BE DETERMINED BY OTHERS USING SOUND ENGINEERING PRACTICES. THE EXISTING STRENGTH PARAMETERS OF CONCRETE, REINFORCING STEEL, AND SOIL BEARING CAPACITY SHOULD BE ANALYZED IN THE REVIEW.
 - B) MAXIMUM PERIMETER COLUMN LOAD = 7,000 LBS. (UNDER 12" X 12" BASE PLATES)
 - C) NON-SHRINK GROUT IS RECOMMENDED WHEN THE MEZZANINE FLOOR IS NOT LEVEL WITH THE EXISTING SLAB ON GRADE. GROUT & GROUTING ARE THE RESPONSIBILITY OF OTHERS.
- 3) STRUCTURAL MATERIAL SPECIFICATIONS:
 - A) FLOORING: 1" X 1/8" BAR GRATE ON LANDINGS ONLY.
 - B) WIDE FLANGE STEEL BEAM SHAPES: F_y = 50 KSI: ASTM A572-50 OR A992-50
 - C) TUBE COLUMNS: F_y = 46 KSI: ASTM A500 GRADE B
 - D) OTHER STRUCTURAL STEEL SHAPES & BASE PLATES: F_y = 36 KSI: ASTM A36
 - E) STRUCTURAL BOLTS: A325
 - F) ANCHOR BOLTS: SUPPLIED BY OTHERS (SEE BASE PLATE LAYOUT & REACTION ON PAGE 5 OF 5)
- 4) BOLT INSTALLATION:
 - A) BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE 5/8" DIAMETER A325 IN BEARING-TYPE CONNECTIONS, TIGHTENED UNTIL SNUG, UNLESS NOTED OTHERWISE. SNUG TIGHT IS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT AND MAY BE ACHIEVED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
- 5) STAIR, LANDING & GUARDRAIL DESIGN:
 - A) THE STAIRS, LANDINGS, 2-RAIL GUARDRAILS AND 2-RAIL STAIR RAILS INCLUDED WITH THIS MODULAR MEZZANINE HAVE BEEN CONFIGURED IN CONFORMANCE WITH OSHA. THEY HAVE ALSO BEEN DESIGNED TO COMPLY WITH THE 2000 IBC REQUIREMENTS EXCEPT THAT THE 2-RAIL STAIR RAIL WILL ALSO SERVE AS THE GUARDRAIL AS PERMITTED BY OSHA, BOCA AND THE STANDARD BUILDING CODE.
 - B) IBC CODE COMPLIANCE OF THIS SINGLE MEANS OF EGRESS DESIGN ASSUMES ANY IBC OCCUPANCY TYPE EXCEPT H (HIGH HAZARD), I (INSTITUTIONAL) AND R (RESIDENTIAL) AND MAXIMUM OCCUPANT LOAD ON THE MEZZANINE FLOOR OF 30 PEOPLE.
 - C) STAIRWAY WIDTH = 36"
 STAIR TREAD DEPTH = 10.9626"
 STAIR RISER HEIGHT = 7.0"
 2 RAIL STAIR RAIL HEIGHT = 36"
 STAIR TREAD MATERIAL = BAR GRATE
 2 RAIL GUARDRAIL HEIGHT = 42"
- 6) COL???????ORS:
 - A) COLUMNS, BEAMS, STAIRS, LANDINGS, AND LANDING COLUMNS: GALVANIZED
 - B) GUARDRAILS AND STAIR RAILS: GALVANIZED




REVISION	ASSEMBLY DRAWINGS				
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REVISION					
PAGE NAME:		COVER SHEET		 PLAN NORTH FOR REFERENCE ONLY	
				SHEET 1 OF 8	
DEALER:	MO	JOB NAME:	12-27-04	LOCATION:	
DATE:		REVISION DATE:		SCALE:	1/4" = 1'-0"
ORDER NUMBER:	PK06403-6158	PROPRIETARY INFORMATION THIS DRAWING & THE DESIGN IT COVERS ARE THE EXCLUSIVE PROPERTY OF PK STRUCTURES. THEY ARE PROVIDED ONLY ON THE USER'S EXPRESS AGREEMENT THAT THEY WILL NOT BE REPRODUCED, COPIED, LOANED, EXHIBITED, CHANGED OR OTHERWISE USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF PK STRUCTURES. NO REPRESENTATION REGARDING DRAWING SCALE & MARGINS.			

MATERIAL LIST				
QTY.	ITEM NO.	DESCRIPTION	LENGTH	COLOR
1	C1	COLUMN - 5"x5"x3/16" -	21'-0"	GALVANIZED
1	C2	COLUMN - 5"x5"x3/16" -	21'-0"	GALVANIZED
1	C3	COLUMN - 5"x5"x3/16" -	21'-0"	GALVANIZED
1	C4	COLUMN - 5"x5"x3/16" -	21'-0"	GALVANIZED
1	B1	BEAM - W8x10 -	7'-0 1/2"	GALVANIZED
1	G1	GIRDER W/PURLIN CONN. - W8x10 -	7'-0 1/2"	GALVANIZED
1	G2	GIRDER W/PURLIN CONN. - W8x10 -	7'-0 1/2"	GALVANIZED
1	G3	GIRDER W/PURLIN CONN. - W8x10 -	7'-0 1/2"	GALVANIZED
1	P1	PURLIN - W8x10 -	6'-11 3/4"	GALVANIZED
4	DIA1	DIAGONAL BRACE -	7'-7 13/16"	GALVANIZED
12	DIA2	DIAGONAL BRACE -	8'-3 7/8"	GALVANIZED
12	DIA3	DIAGONAL BRACE -	6'-11 1/2"	GALVANIZED
8	KB1	LANDING KNEE BRACE -	5'-2 15/16"	GALVANIZED
4	KB2	LANDING KNEE BRACE -	6'-8 3/4"	GALVANIZED
3	L1	LANDING: 4'-3 3/8" x 4'-3 3/8" W/BAR GRATE		GALVANIZED
1	L2	LANDING: 4'-3 3/8" x 8'-0" W/BAR GRATE		GALVANIZED
13	LC1	LANDING COLUMN -	4'-5"	GALVANIZED
1	LC2	LANDING COLUMN -	4'-5"	GALVANIZED
3	L3	SPECIAL LANDING TO STAIR BRACKET		GALVANIZED
8	LGS1	LANDING GUARDRAIL SECTION -	3'-8 3/16"	GALVANIZED
1	LGS2	LANDING GUARDRAIL SECTION -	3'-6 1/4"	GALVANIZED
1	LGS3	LANDING GUARDRAIL SECTION -	3'-2 5/16"	GALVANIZED
1	S1	STAIR -	9'-0 7/8"	GALVANIZED
1	SR1	STAIR RAIL (RIGHT) -	9'-11 5/16"	GALVANIZED
1	SR2	STAIR RAIL (LEFT) -	9'-11 5/16"	GALVANIZED
3	S2	STAIR -	9'-0 7/8"	GALVANIZED
3	SR3	STAIR RAIL (RIGHT) -	9'-0 9/16"	GALVANIZED
3	SR4	STAIR RAIL (LEFT) -	9'-0 9/16"	GALVANIZED
135		BOLT 5/8" X 1 3/4" A325		GALVANIZED
135		NUT 5/8" A325		GALVANIZED
135		WASHERS 5/8"		GALVANIZED
103		LOAD INDICATING WASHER 5/8" A325		-----
100		BOLT 1/2" x 1 1/2" A325		GALVANIZED
100		NUT 1/2" A325		GALVANIZED
35		BOLT 1/2" x 2 1/2" GRADE 5		GALVANIZED
35		NUT 1/2" GRADE 5		GALVANIZED
135		WASHERS 1/2"		GALVANIZED
125		TEK SCREW, TEK 5 x 1 1/4"		GALVANIZED
2		PAINT TOUCH-UP KIT		-----
4		FLOOR LOADING LABELS 50 PSF		

HARDWARE LOCATION AND USE
(BEAM WEB TO BEAM ANGLE CLIP, BEAM WEB TO COLUMN TEE, BEAM BOT. FLANGE TO - 5/8" THICK COLUMN SEATS, DIAGONAL BRACING, & LANDING KNEE BRACING)
(BOLT, 5/8" X 1 3/4")
(BOLT, 5/8" X 1 3/4")
(BOLT, 5/8" X 1 3/4" FOR PURLIN CONNECTION, DIAGONAL BRACING, & LANDING KNEE BRACING)
(LANDING COLUMNS TO LANDING, STAIR TO LANDING, LANDING TO STAIR BRACKET, AND - STAIR TO LANDING TO STAIR BRACKET)
(BOLT 1/2" X 1 1/2")
(STAIR RAILS TO STAIR STRINGER)
(BOLT 1/2" X 2 1/2")
(BOLT 1/2" X 2 1/2" and BOLT 1/2" X 1 1/2")
(GUARDRAILS TO LANDING COLUMNS AND STAIR RAILS TO LANDING COLUMNS)
(TOUCHING UP SCRATCHES AND NICKS)
(CAPACITY LABELS TO BE LOCATED NEAR STAIRS AND GATE OPENINGS)



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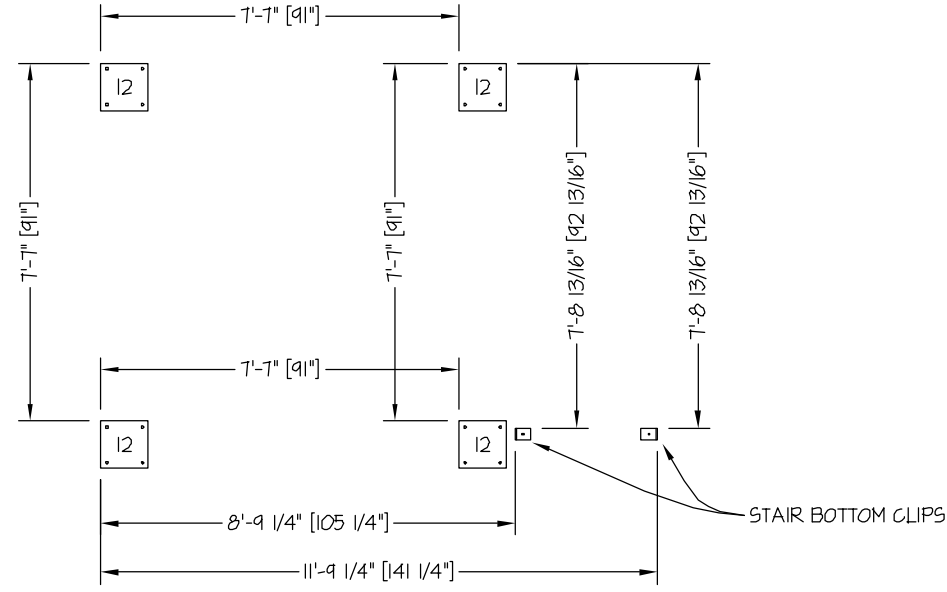

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MATERIAL LIST SHEET
 SHEET 2 OF 8

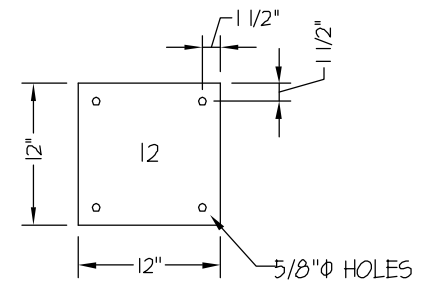
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JOB NAME:	12-27-04
LOCATION:	

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SCALE:	1/4" = 1'-0"
ORDER NUMBER:	PK06403-6158

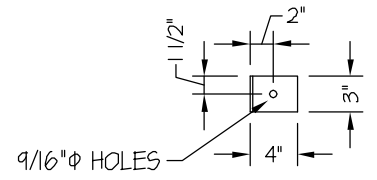
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BASE PLATE LAYOUT





BASE PLATE: 5/8" x 12" x 12"

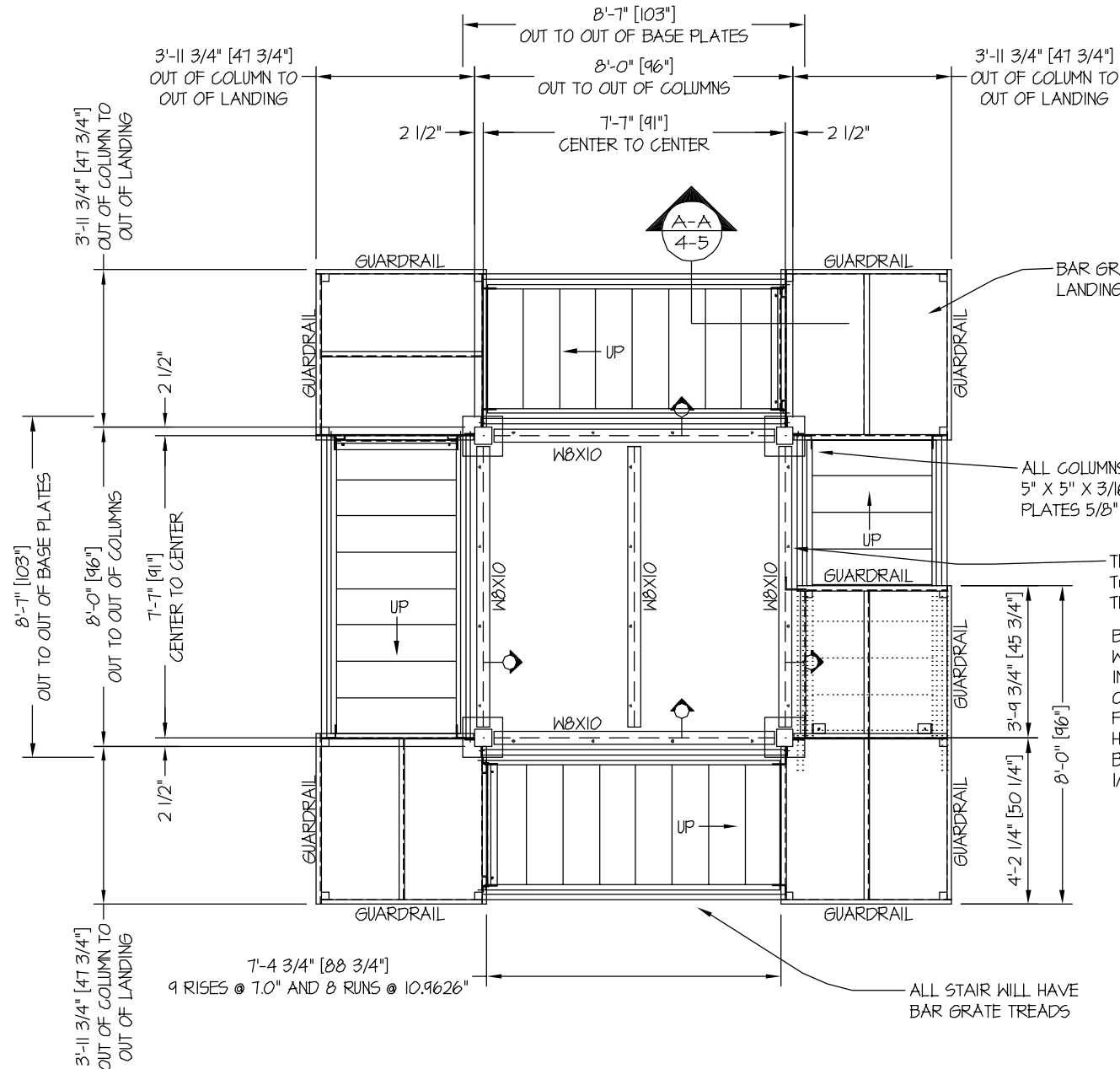


STAIR BOTTOM CLIP: L 4" x 3" x 1/4"

BASE REACTIONS:
 UPLIFT = 2,500 LBS. PER COLUMN
 GRAVITY = 7,000 LBS. PER COLUMN
 BASE SHEAR = 1,000 LBS PER COLUMN

DESIGN OF SUPPORTING FOUNDATIONS, AND THE ANCHORAGE OF THE STRUCTURE TO THESE FOUNDATIONS, SHALL BE THE RESPONSIBILITY OF THE OWNER. FOR COORDINATION PURPOSES, THESE DRAWINGS INCLUDE CALCULATED COLUMN BASE REACTIONS, AND BASE PLATE DETAILS FOR ANCHOR BOLT LAYOUT.

 A PORTA-KING/KELLY KLOSURE ENTERPRISE EARTH CITY, MISSOURI 63045 (PH: 1-800-284-5246)				
DRAWN BY: MO DATE: 12-27-04 REVISION DATE: SCALE: 1/4" = 1'-0" ORDER NUMBER: PK06403-6158	DEALER: JOB NAME: LOCATION:	REVISION ASSEMBLY DRAWINGS REVISION REVISION REVISION REVISION	PAGE NAME: BASE PLATE LAYOUT SHEET 3 OF 8	
PROPRIETARY INFORMATION THIS DRAWING & THE DESIGN IT COVERS ARE THE EXCLUSIVE PROPERTY OF PK STRUCTURES. THEY ARE PROVIDED ONLY ON THE USER'S EXPRESS AGREEMENT THAT THEY WILL NOT BE REPRODUCED, COPIED, LOANED, EXHIBITED, CHANGED, OR OTHERWISE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF PK STRUCTURES. FOR MORE INFORMATION REGARDING DRAWING SCALE & LOGO, CONTACT:				



FLOOR PLAN LAYOUT

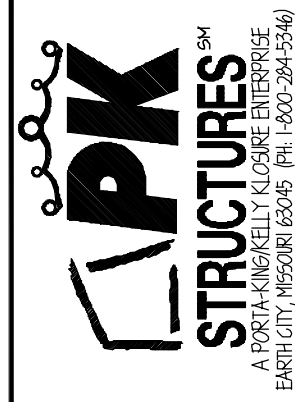
BAR GRATE ON LANDINGS ONLY

ALL COLUMNS ARE SQ. TUBE 5" X 5" X 3/16" WITH BASE PLATES 5/8" X 12" X 12".

THE BUILDING NEEDS TO BOLT TO THE MEZZANINE BEAMS AT THESE LOCATION.

BEAMS ARE TO BE PRE DRILLED WITH 1/16"Ø HOLES EVENLY SPACED IN ALL (5) BEAMS. HOLES IN BASE OF BUILDING WILL NEED TO BE FIELD DRILLED USING THE BEAM HOLES AS A GUIDE. BOLT THE BUILDING TO THE BEAMS WITH 1/2"Ø BOLTS SUPPLIED WITH BUILDING.

ALL STAIR WILL HAVE BAR GRATE TREADS



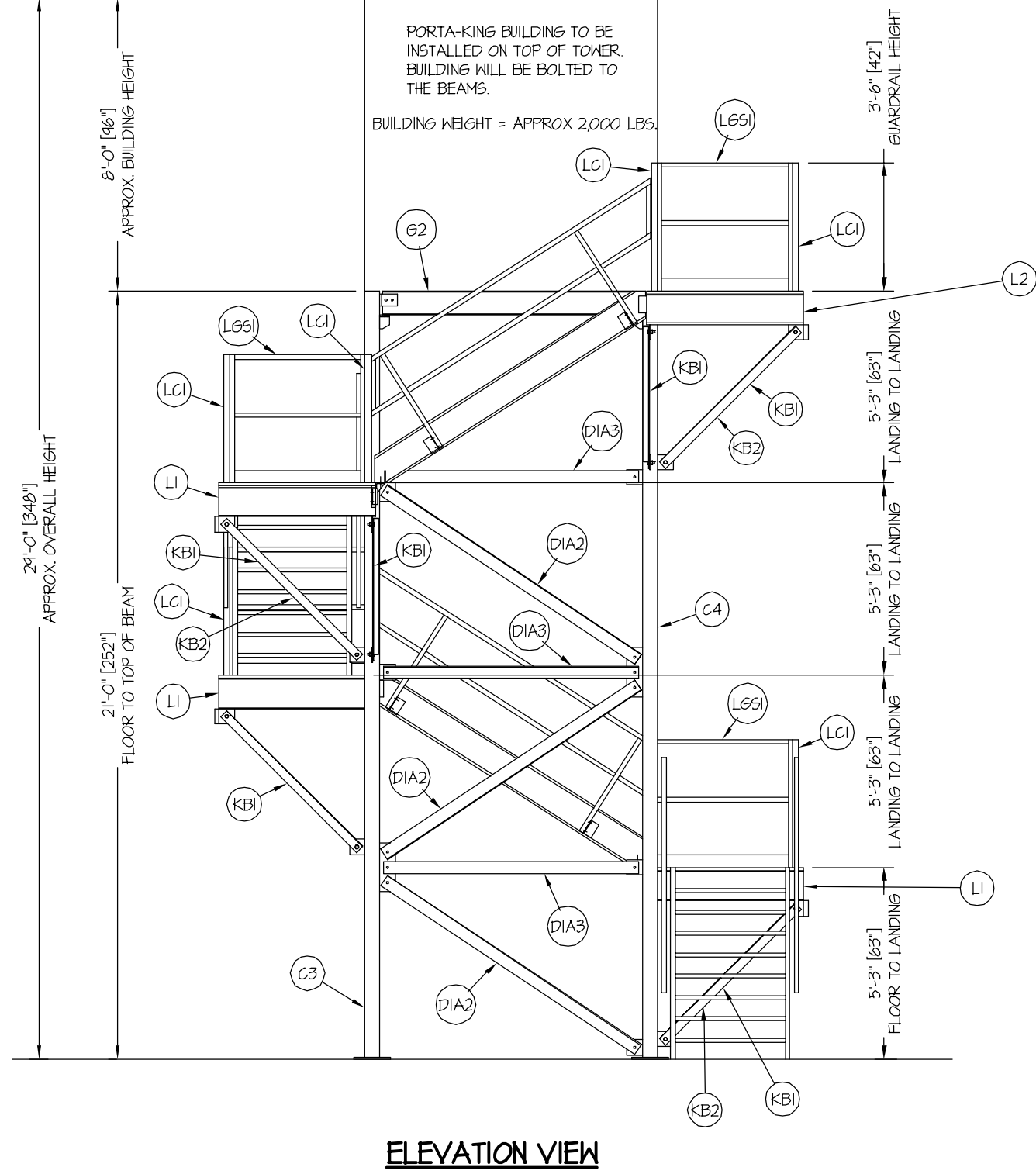
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PAGE NAME: FLOOR PLAN LAYOUT

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SHEET 4 OF 8

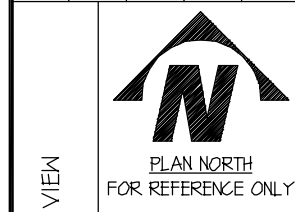
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ORDER NUMBER:		PK06403-6158



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 SCALE: 1/4" = 1'-0"
 ORDER NUMBER: PK06403-6158

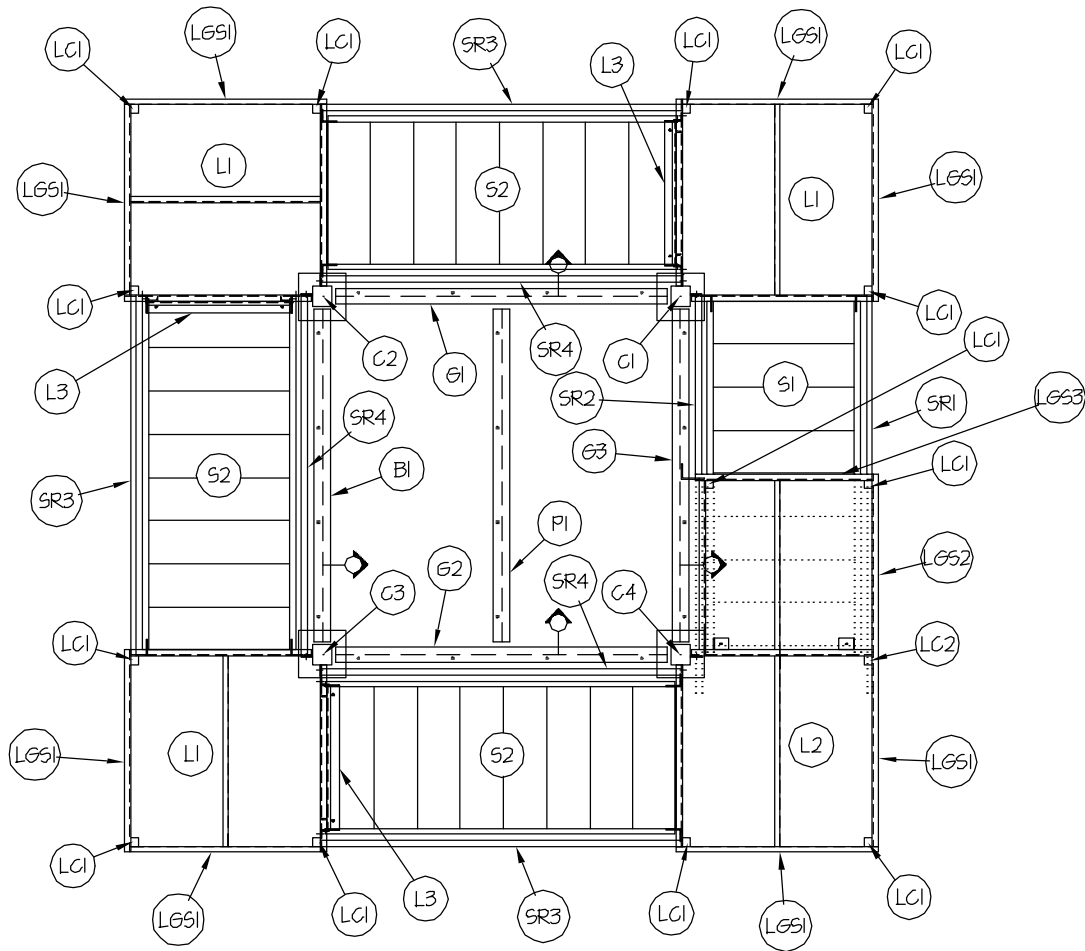
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PAGE NAME: ELEVATION VIEW
 SHEET 5 OF 8



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PK STRUCTURESSM
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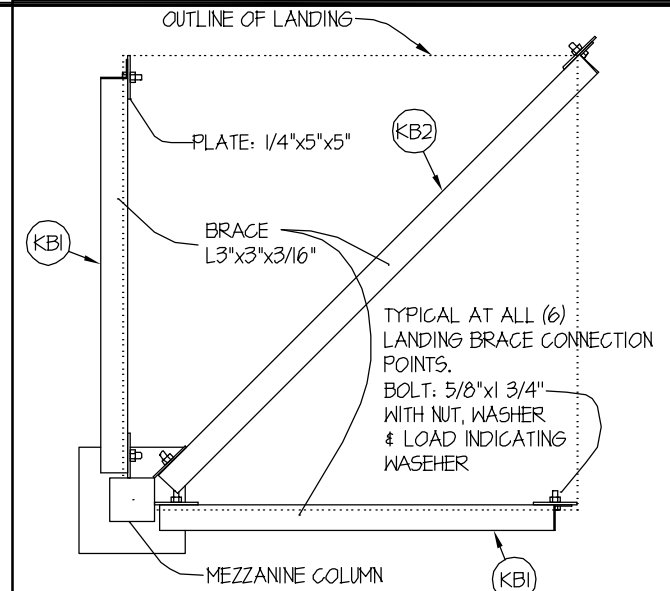
ITEM NUMBER LAYOUT

NOTE:

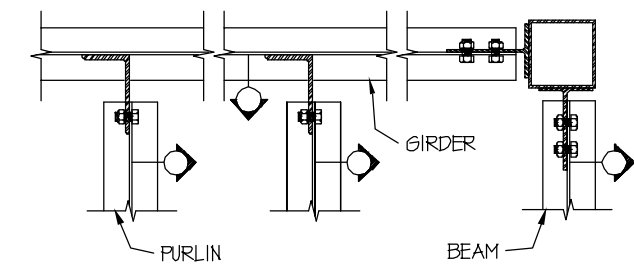
1. MARK NUMBERS ON BEAMS HAVE BEEN PLACED ON THE "TOP SIDE" OF THE BEAM.
2. MARK NUMBERS ON COLUMNS HAVE BEEN PLACED ON THE BOTTOM OF THE BASEPLATE.
3. WHEN PLACING ANY OTHER MATERIALS WITH MARK NUMBERS, PLACE THE MARK NUMBER SIDE TO THE CONNECTION SIDE TO COVER MARK NUMBER AFTER ASSEMBLY.

NOTE:

INSTALL LANDING POSTS LCI & LG2 BEFORE BOLTING THE LANDINGS TO THE MEZZANINE COLUMNS AND KNEE BRACES.

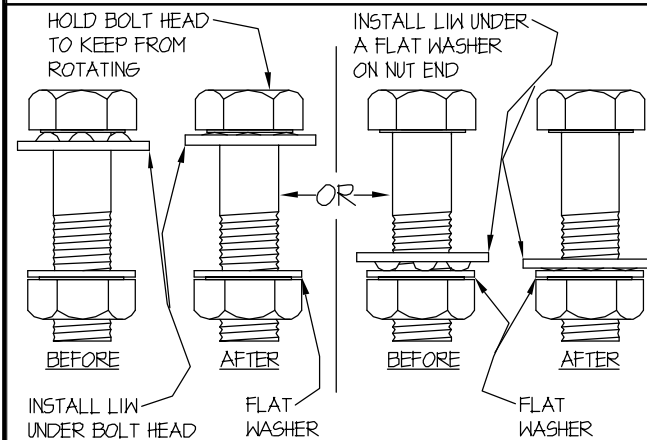


LANDING BRACING DETAIL (TYP. ALL 4 LANDINGS)



NOTE: THIS SYMBOL, "—○—" MEANS THE BEAM NEEDS TO BE INSTALLED TO THE SIDE OF THE CONNECTION CLIPS THAT THE SYMBOL IS POINTING.

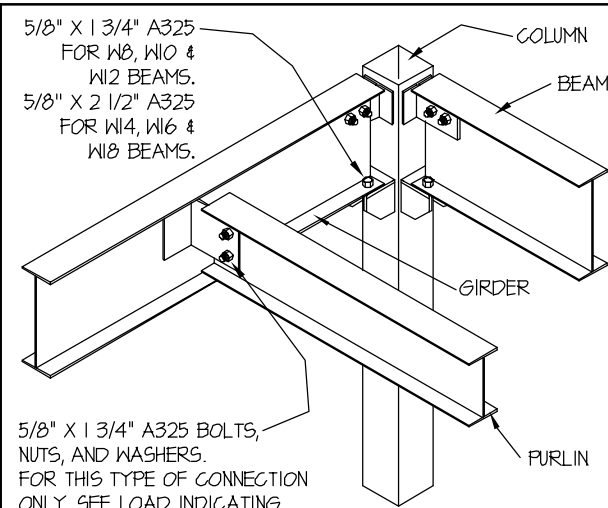
CRITICAL BEAM INSTALLATION DETAIL



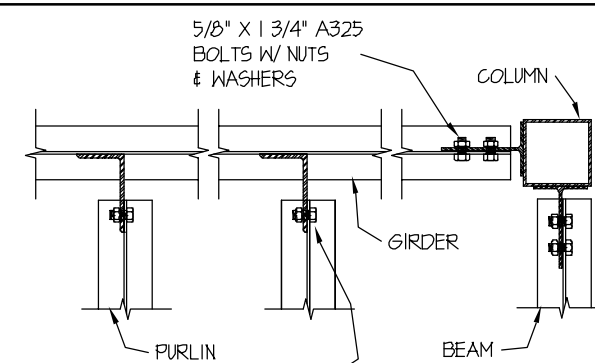
NOTE: SMALL, OR NO GAP, MEANS THE BOLT HAS BEEN TENSIONED PROPERLY. THIS GAP SHOULD BE LESS THAN .015".

**** TURN NUT TO TIGHTEN BOLT ****

LOAD INDICATING WASHER (LIW) INSTALLATION DETAIL



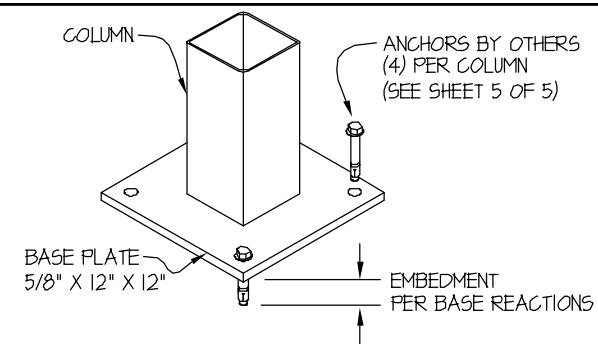
PARTIALLY RESTRAINED COLUMN / BEAM CONNECTION



5/8" X 1 3/4" A325 BOLTS, NUTS, AND WASHERS. FOR THIS TYPE OF CONNECTION ONLY, SEE LOAD INDICATING WASHER INSTALLATION DETAIL.

NOTE: - INSTALL ALL BEAMS ON THE SAME SIDE OF THE CONNECTION CLIPS UNLESS OTHERWISE NOTED.

PARTIALLY RESTRAINED COLUMN / BEAM CONNECTION



IMPORTANT NOTE:

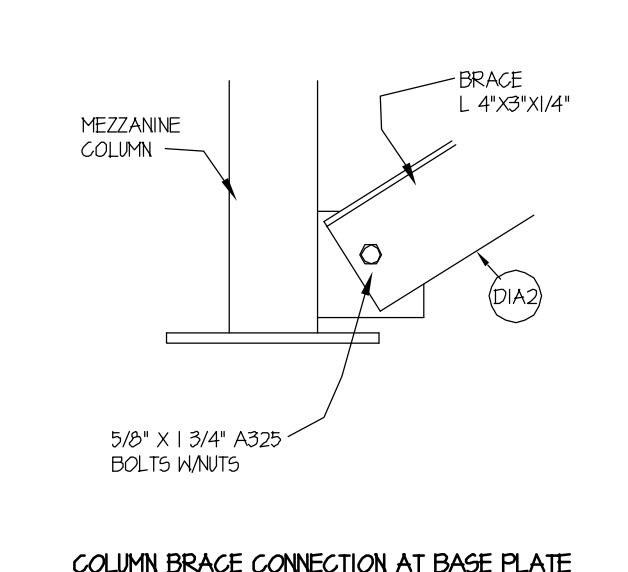
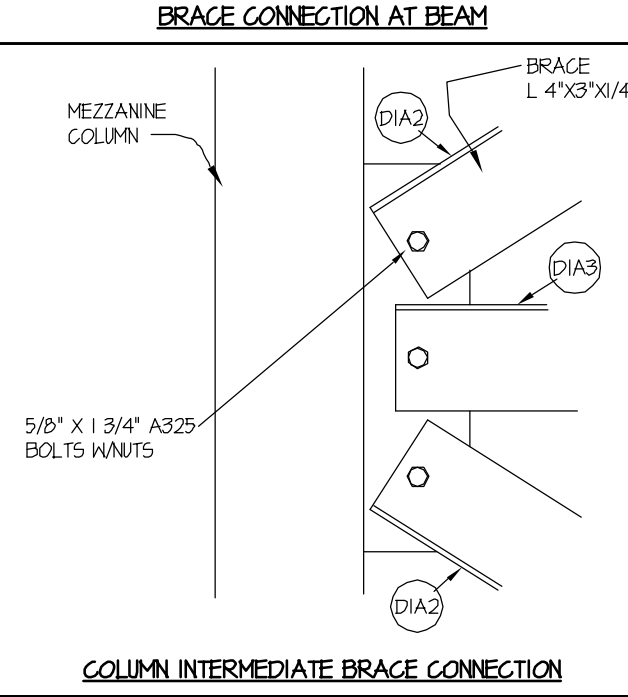
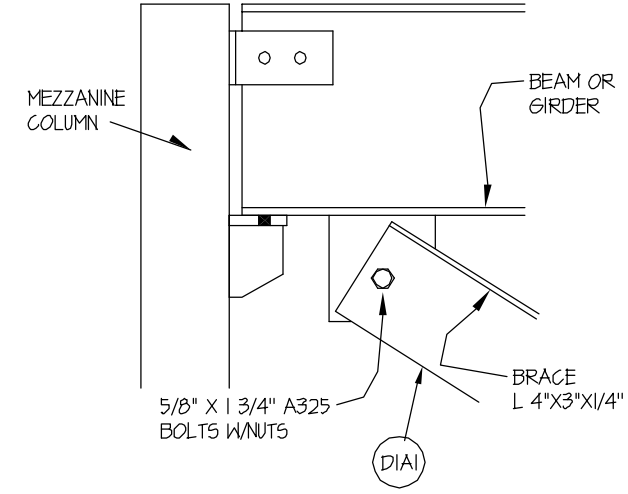
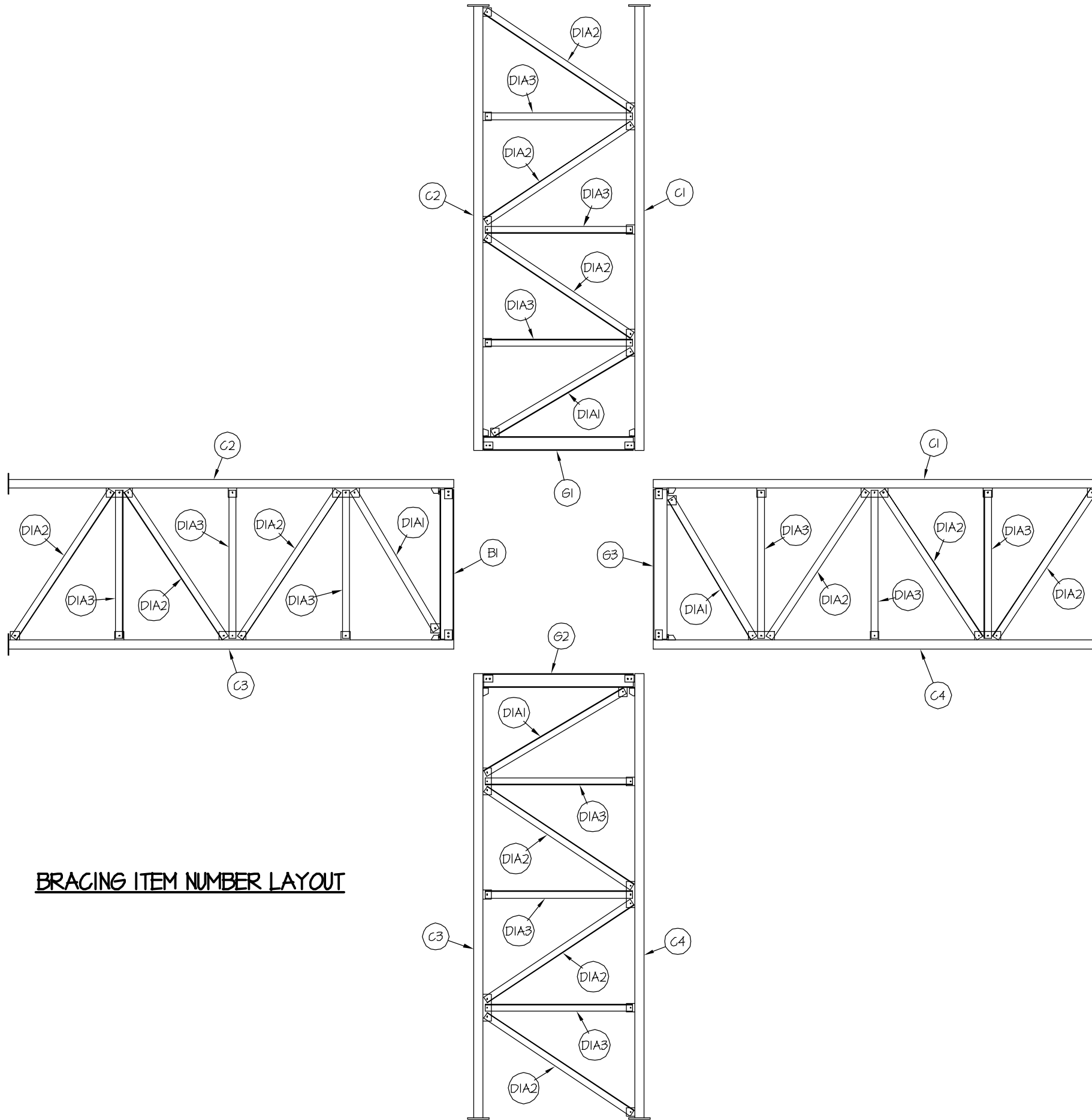
1. BASEPLATES MUST BE IN FULL CONTACT WITH THE CONCRETE FLOOR OR EXCESSIVE MOVEMENT IN THE MEZZANINE WILL BE EXPERIENCED.
2. DO NOT USE WASHERS OR SMALL SHIMS UNDER THE BASEPLATES. IF SHIMMING IS REQUIRED SEE SHEET #1 MEZZANINE NOTE #2 AND USE NON-SHRINK GROUT.
3. IF THE BASEPLATE HAS ANY AIR GAP BETWEEN IT AND THE FLOOR, THEN GROUTING WILL BE REQUIRED.

TYPICAL BASE PLATE ANCHORING DETAIL


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PAGE NAME:	ITEM NUMBER LAYOUT	SHEET 6 OF 8
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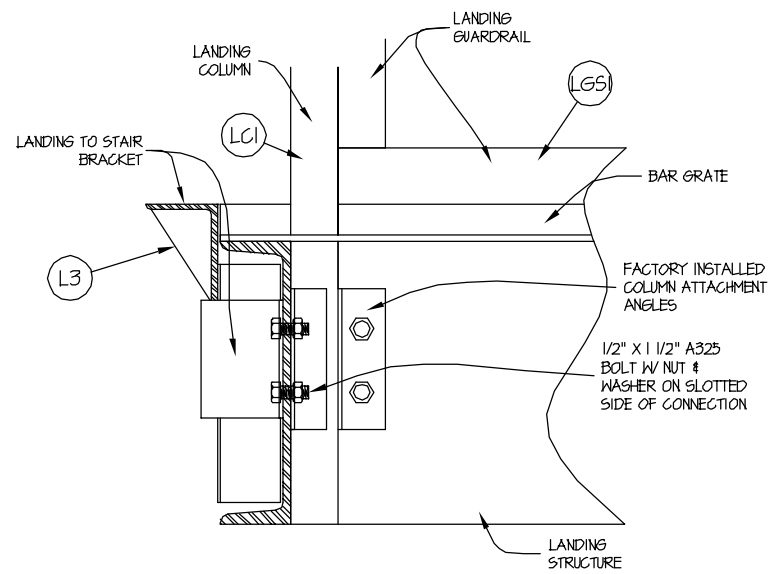
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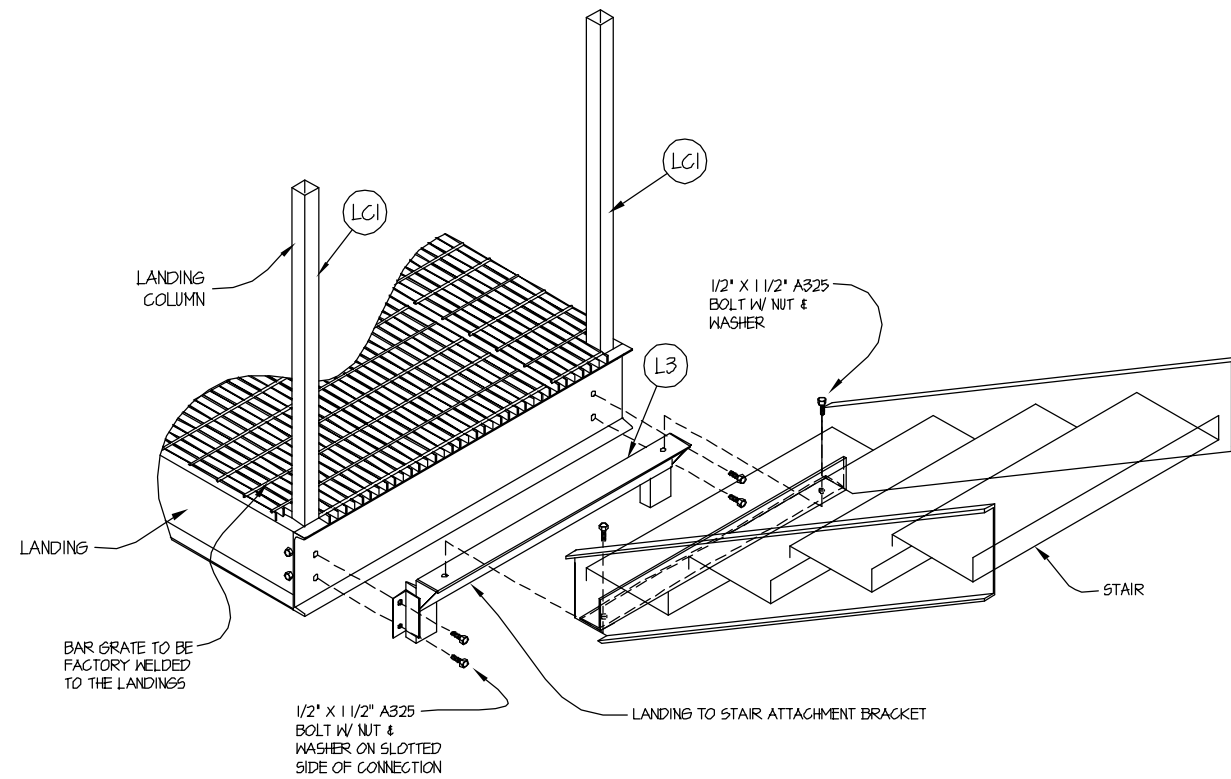
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PAGE NAME:	BRACING ITEM NUMBER LAYOUT
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SHEET	1 OF 8

DEALER:	MO	LOCATION:	
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A-A SECTION VIEW A-A
2-5



TYPICAL PARTIAL LANDING ISOMETRIC WITH LANDING TO STAIR ATTACHMENT BRACKET

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LANDING AND STAIR
DETAIL SHEET

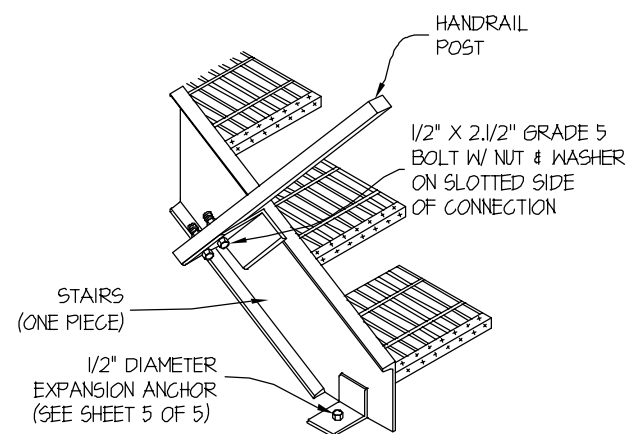


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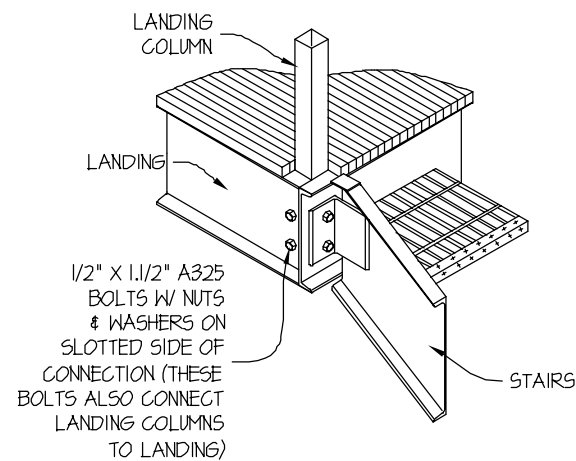
SHEET 8 OF 8

DEALER:	MO
JOB NAME:	12-27-04
LOCATION:	
REVISION DATE:	
SCALE:	1/4" = 1'-0"
ORDER NUMBER:	PK06403-6158

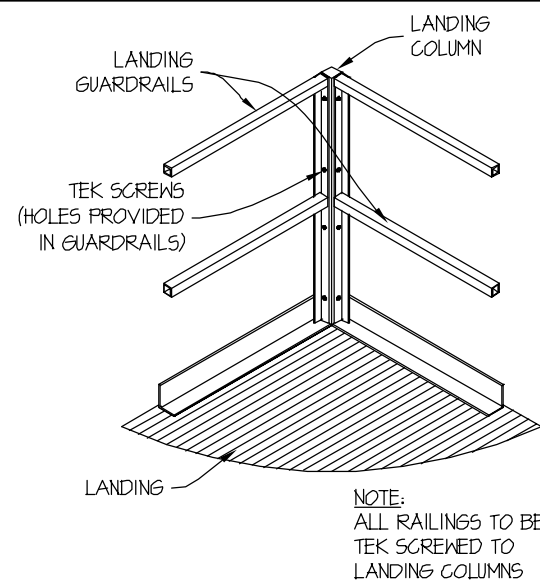
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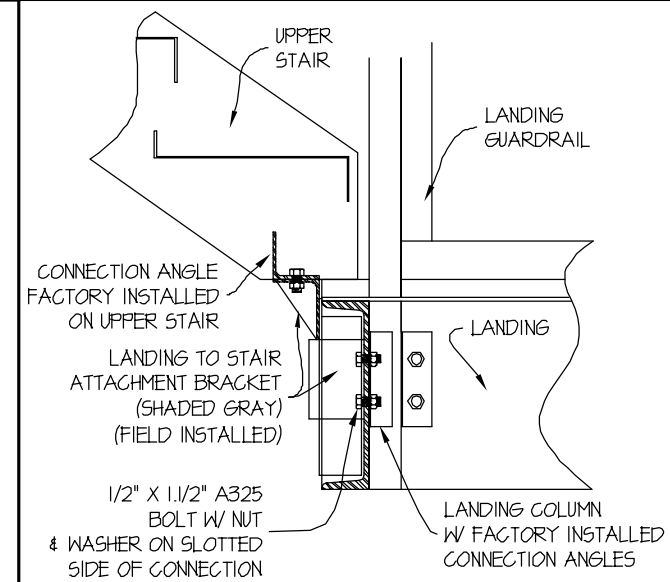
STAIR BASE & HANDRAIL CONNECTION



TYPICAL STAIR TO LANDING CONNECTION



LANDING GUARDRAIL CONNECTION



UPPER STAIR TO LOWER LANDING CONNECTION

NOTE:
ALL RAILINGS TO BE
TEK SCREWED TO
LANDING COLUMNS