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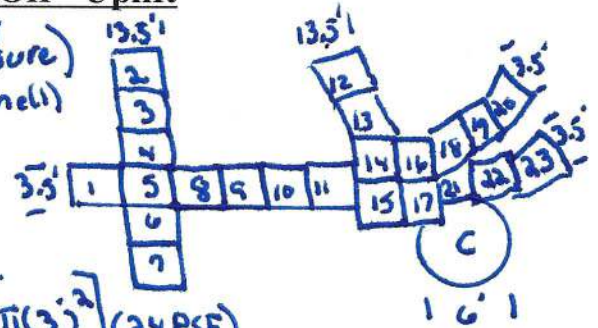
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Playground with Square Fabric Off - Uplift

$\uparrow$ Wind Uplift = (Area in Vertical Direction) (Wind Pressure)
 There are approximately 23 areas each 3.5' x 3.5' (onelli)
 Circular area 6' in diameter



$$\uparrow \text{Total Wind Uplift} = (23 \text{ areas})(3.5' \times 3.5')(24 \text{ PSF}) + (\text{One Circular Area}) \left[\pi (3')^2 \right] (24 \text{ PSF})$$

$$\uparrow \text{Total Wind Uplift} = 6,762 \text{ lb} + 679 \text{ lb} = 7,441 \text{ lb}$$

$\downarrow$ Pullout Resistance = $\downarrow$ WT footer + $\downarrow$ Soil Resistance

$$\downarrow \text{WT footer} = \text{Volume} \times \text{Density} = \pi \left(\frac{9'}{2} \right)^2 (1.5') (144 \text{ lb/ft}^3) = 382 \text{ lb}$$

(A Size)

$$\downarrow \text{Soil Resistance} = \frac{1}{2} PL^2 \gamma K_u \tan \theta = \frac{1}{2} \left[\pi (1.5')^2 \right] (1.5') (110) (1) \tan 30^\circ = 337 \text{ lb}$$

(A Size footer)

$$\downarrow \text{Total Pullout Resistance} = \downarrow \text{WT footer} + \downarrow \text{Soil Resistance} = 382 \text{ lb} + 337 \text{ lb} = 719 \text{ lb}$$

(A Size footer)

There are 13 A size footers directly associated with the primary play Structure

$$\downarrow \text{Total Pullout Resistance} = (13 \text{ footers})(719 \text{ lb/footer}) = 9,347 \text{ lb}$$

(A Size footers)

$$\downarrow \text{WT footer} = \text{Volume} \times \text{Density} = \pi \left(\frac{14'}{2} \right)^2 (1.5') (144 \text{ lb/ft}^3) = 231 \text{ lb}$$

(B Size)

$$\downarrow \text{Soil Resistance} = \frac{1}{2} PL^2 \gamma K_u \tan \theta = \frac{1}{2} \left[\pi \left(\frac{14'}{2} \right)^2 \right] (1.5') (110) (1) \tan 30^\circ = 262 \text{ lb}$$

(B Size footer)

$$\downarrow \text{Total Pullout Resistance} = \downarrow \text{WT footer} + \downarrow \text{Soil Resistance} = 231 \text{ lb} + 262 \text{ lb} = 493 \text{ lb}$$

(B Size footer)

There are 18 B size footers directly associated with the primary play Structure

$$\downarrow \text{Total Pullout Resistance} = (18 \text{ footers})(493 \text{ lb/footer}) = 8,874 \text{ lb}$$

(B Size footers)

$$\downarrow \text{WT footer} = \text{Volume} \times \text{Density} = \pi \left(\frac{2'}{2} \right)^2 (2') (144 \text{ lb/ft}^3) = 308 \text{ lb}$$

(E Size)

$$\downarrow \text{Soil Resistance} = \frac{1}{2} PL^2 \gamma K_u \tan \theta = \frac{1}{2} \left[\pi \left(\frac{2'}{2} \right)^2 \right] (2') (110) (1) \tan 30^\circ = 466 \text{ lb}$$

(E Size footer)

$$\downarrow \text{Total Pullout Resistance} = \downarrow \text{WT footer} + \downarrow \text{Soil Resistance} = 308 \text{ lb} + 466 \text{ lb} = 774 \text{ lb}$$

(E Size footer)

There are 2 E size footers directly associated with the primary play Structure

$$\downarrow \text{Total Pullout Resistance} = (2 \text{ footers})(774 \text{ lb/footer}) = 1,548 \text{ lb}$$

(E Size footer)

(Continued Next Page)

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 Orlando FL 32833
 Tel 321-201-8749
 FL PE # 42669

Playground with Square Fabric Off – Uplift

(Continued From Previous Page)

$$\downarrow \text{Pullout Resistance} = \downarrow \text{wt footer} + \downarrow \text{Soil Resistance}$$

$$\downarrow \text{wt footer} = \text{Volume} \times \text{Density} = \pi \left(\frac{18}{2}\right)^2 (3') (144 \text{ lb/ft}^3) = 3,054 \text{ lb}$$

(H Size)

$$\downarrow \text{Soil Resistance} = \frac{1}{2} PL^2 \gamma K_u \tan \theta = \frac{1}{2} [\pi (3')^2] (3') (110) (1) \tan 30^\circ = 2,693 \text{ lb}$$

(H Size footer)

$$\downarrow \text{Total Pullout Resistance} = \downarrow \text{wt footer} + \downarrow \text{Soil Resistance} = 3,054 \text{ lb} + 2,693 \text{ lb} = 5,747 \text{ lb}$$

(H Size footer)

There are 4 H Size footers directly associated with the primary play structure

$$\downarrow \text{Total Pullout Resistance} = (4 \text{ footers}) (5,747 \text{ lb/footer}) = 22,988 \text{ lb}$$

(H Size footer)

$$\downarrow \text{Total Pullout Resistance} = 9,347 \text{ lb} + 8,874 \text{ lb} + 1,548 \text{ lb} + 22,988 \text{ lb} = 42,757 \text{ lb}$$

(A+B+E+H Size footer)

$$\text{Factor of Safety} = \frac{\downarrow \text{Total Pullout Resistance (A+B+E+H Size footer)}}{\uparrow \text{Total Wind Uplift}} = \frac{42,757}{7,441} = 5.75$$

$$F_s = \underline{\underline{5.75 \text{ ok}}}$$

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Playground with Square Fabric Off - Overturning

The design method utilized to analysis the lateral wind loads was accomplished by the Sum of the moments around a specific point (see exhibit B).

$$\sum M_{Wind} = (Area)(Wind Pressure)(Distance)$$

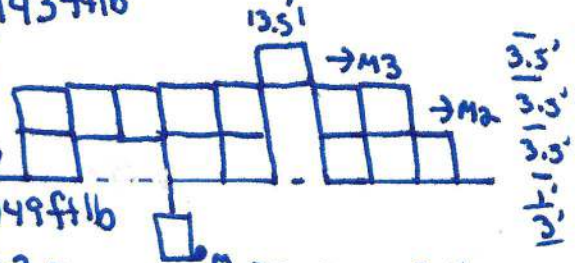
$$\sum M_1 Wind = (Area)(3.5' \times 3.5')(24 PSF) \left[3' + 1' + \frac{3.5'}{2} \right] = 10,143 \text{ ft-lb}$$

$$\sum M_2 Wind = (Area)(3.5' \times 3.5')(24 PSF) \left[3' + 1' + 3.5' + \frac{3.5'}{2} \right]$$

$$\sum M_2 Wind = 19,037 \text{ ft-lb}$$

$$\sum M_3 Wind = (Area)(3.5' \times 3.5')(24 PSF) \left[3' + 1' + 7' + \frac{3.5'}{2} \right] = 3,749 \text{ ft-lb}$$

$$\sum M_{Total Wind} = \sum M_{1-3} = 10,143 \text{ ft-lb} + 19,037 \text{ ft-lb} + 3,749 \text{ ft-lb} = 32,929 \text{ ft-lb}$$



$$\sum M_{Foundation} = \downarrow \text{Pullout Resistance} \times \text{Distance} \times \# \text{ Footers}$$

$$\downarrow \text{Pullout Resistance for A size footers} = 719 \text{ lb}, \text{ B size} = 493 \text{ lb}, \text{ E size} = 774 \text{ lb}, \text{ H size} = 5,747 \text{ lb}$$

(See Pages 798 for $\downarrow$ Pullout Resistance Calculations)

$$\sum M_1 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} \right] (1 \text{ footer}) = 539 \text{ ft-lb}$$

$$\sum M_2 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} + 3.25' \right] (1 \text{ footer}) = 2,876 \text{ ft-lb}$$

$$\sum M_3 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} + 4.71' \right] (3 \text{ footers}) + (5,747 \text{ lb}) \left[\frac{9'}{12} + 4.71' \right] (2 \text{ footers})$$

$$\sum M_3 Foundation = 11,777 \text{ ft-lb} + 62,757 \text{ ft-lb} = 74,534 \text{ ft-lb}$$

$$\sum M_4 Foundation = (774 \text{ lb}) \left[\frac{9'}{12} + 5.33' \right] (1 \text{ footer}) = 4,706 \text{ ft-lb}$$

$$\sum M_5 Foundation = (774 \text{ lb}) \left[\frac{9'}{12} + 6.92' \right] (1 \text{ footer}) = 5,937 \text{ ft-lb}$$

$$\sum M_6 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} + 7.67' \right] (3 \text{ footers}) + (5,747 \text{ lb}) \left[\frac{9'}{12} + 7.67' \right] (2 \text{ footers})$$

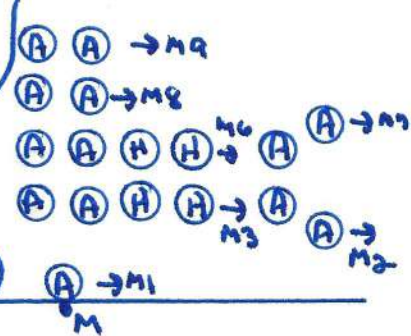
$$\sum M_6 Foundation = 18,162 \text{ ft-lb} + 96,779 \text{ ft-lb} = 114,941 \text{ ft-lb}$$

$$\sum M_7 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} + 9.25' \right] (1 \text{ footer}) = 7,190 \text{ ft-lb}$$

$$\sum M_8 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} + 10.67' \right] (2 \text{ footers}) = 16,422 \text{ ft-lb}$$

$$\sum M_9 Foundation = (719 \text{ lb}) \left[\frac{9'}{12} + 13.67' \right] (2 \text{ footers}) = 20,736 \text{ ft-lb}$$

$$\sum M_{Total Foundation} = \sum M_{1-9} = 247,881 \text{ ft-lb}$$



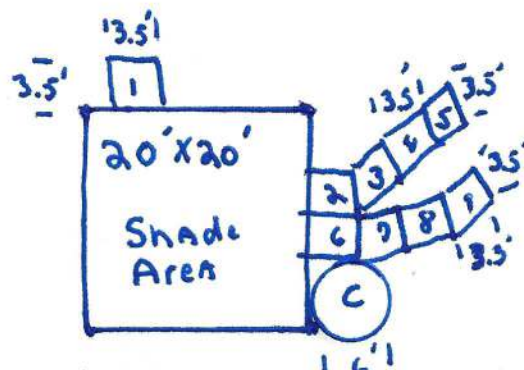
$$\text{Factor of Safety} = F_s = \frac{\sum M_{Total Foundation}}{\sum M_{Total Wind}} = \frac{247,881}{32,929} = 7.53$$

$$F_s = \underline{\underline{7.53 \text{ OK}}}$$

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FL PE # 42669

Playground with Square Fabric On - Uplift

$\uparrow \text{Wind Uplift} = (\text{Area in Vertical Direction}) (\text{Wind Pressure})$
 There are approximately 9 areas each $3.5' \times 3.5'$, one (1) circular area 6' in diameter & one (1) shade area $20' \times 20'$ in size



$$\uparrow \text{Total Wind Uplift} = (9 \text{ areas})(3.5' \times 3.5')(14 \text{ PSF}) + (\text{one circular area}) [\pi (3')^2] (14 \text{ PSF}) + (\text{one shade area}) (20' \times 20') (14 \text{ PSF})$$

$$\uparrow \text{Total Wind Uplift} = 1,544 \text{ lb} + 396 \text{ lb} + 5,600 \text{ lb} = 7,540 \text{ lb}$$

$$\downarrow \text{Pullout Resistance} = \downarrow \text{w/ footer} + \downarrow \text{Soil Resistance}$$

$$\downarrow \text{Total Pullout Resistance} = 42,757 \text{ lb}$$

(A+B+E+H Size footer)

(See Pages 798 for $\downarrow \text{Total Pullout Resistance}$ Calculations)
(A+B+E+H Size footer)

$$\text{Factor of Safety} = F_s = \frac{\downarrow \text{Total Pullout Resistance (A+B+E+H Size footer)}}{\uparrow \text{Total wind uplift}} = \frac{42,757}{7,540} = 5.67$$

$$F_s = \underline{\underline{5.67 \text{ OK}}}$$

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Playground with Square Fabric On - Overturning

The design method utilized to analysis the lateral wind loads was accomplished by the Sum of the moments around a specific point (see exhibit B).

$$\sum M_{\text{Wind}} = (\text{Area})(\text{Wind Pressure})(\text{Distance})$$

$$\sum M_{1\text{Wind}} = (\text{Area})(3.5' \times 3.5') (14 \text{ PSF}) \left[3' + 1' + \frac{3.5'}{2} \right]$$

$$\sum M_{1\text{Wind}} = 5,917 \text{ ft}\cdot\text{lb}$$

$$\sum M_{2\text{Wind}} = (\text{Area})(3.5' \times 3.5') (14 \text{ PSF}) \left[3' + 1' + 3.5' + \frac{3.5'}{2} \right]$$

$$\sum M_{2\text{Wind}} = 11,105 \text{ ft}\cdot\text{lb}$$

$$\sum M_{3\text{Wind}} = (\text{Area})(3.5' \times 3.5') (14 \text{ PSF}) \left[3' + 1' + 7' + \frac{3.5'}{2} \right]$$

$$\sum M_{3\text{Wind}} = 2,187 \text{ ft}\cdot\text{lb}$$

$$\sum M_{4\text{Wind}} = (\text{Area}) \left[\frac{1}{2} (10') (5') \right] (14 \text{ PSF}) \left[3' + 1' + 19' + \frac{5'}{3} \right] = 17,267 \text{ ft}\cdot\text{lb}$$

$$\sum M_{\text{Total Wind}} = \sum M_{1-4} = 5,917 \text{ ft}\cdot\text{lb} + 11,105 \text{ ft}\cdot\text{lb} + 2,187 \text{ ft}\cdot\text{lb} + 17,267 \text{ ft}\cdot\text{lb} = 36,476 \text{ ft}\cdot\text{lb}$$

$$G_M \text{ Foundation} = \downarrow \text{Pullout Resistance} \times \text{Distance} \times \# \text{ Footers}$$

$$G_M \text{ Total Foundation} = 247,881 \text{ ft}\cdot\text{lb}$$

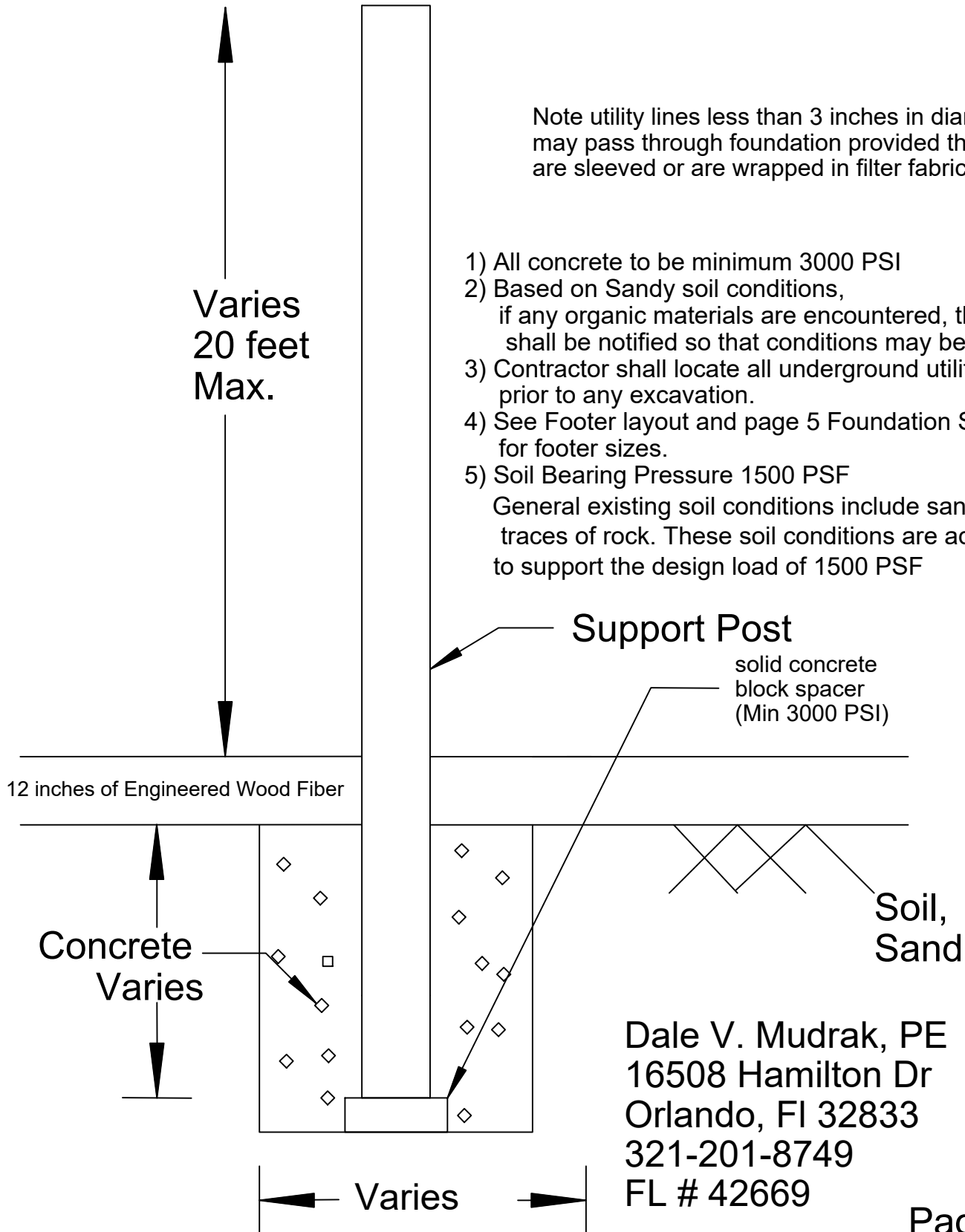
(See Page 9 for $G_M \text{ Total Foundation}$ Calculations)

$$\text{Factor of Safety} = F_s = \frac{G_M \text{ Total Foundation}}{\sum M_{\text{Total Wind}}} = \frac{247,881}{36,476} = 6.8$$

$$F_s = \underline{\underline{6.8 \text{ OK}}}$$

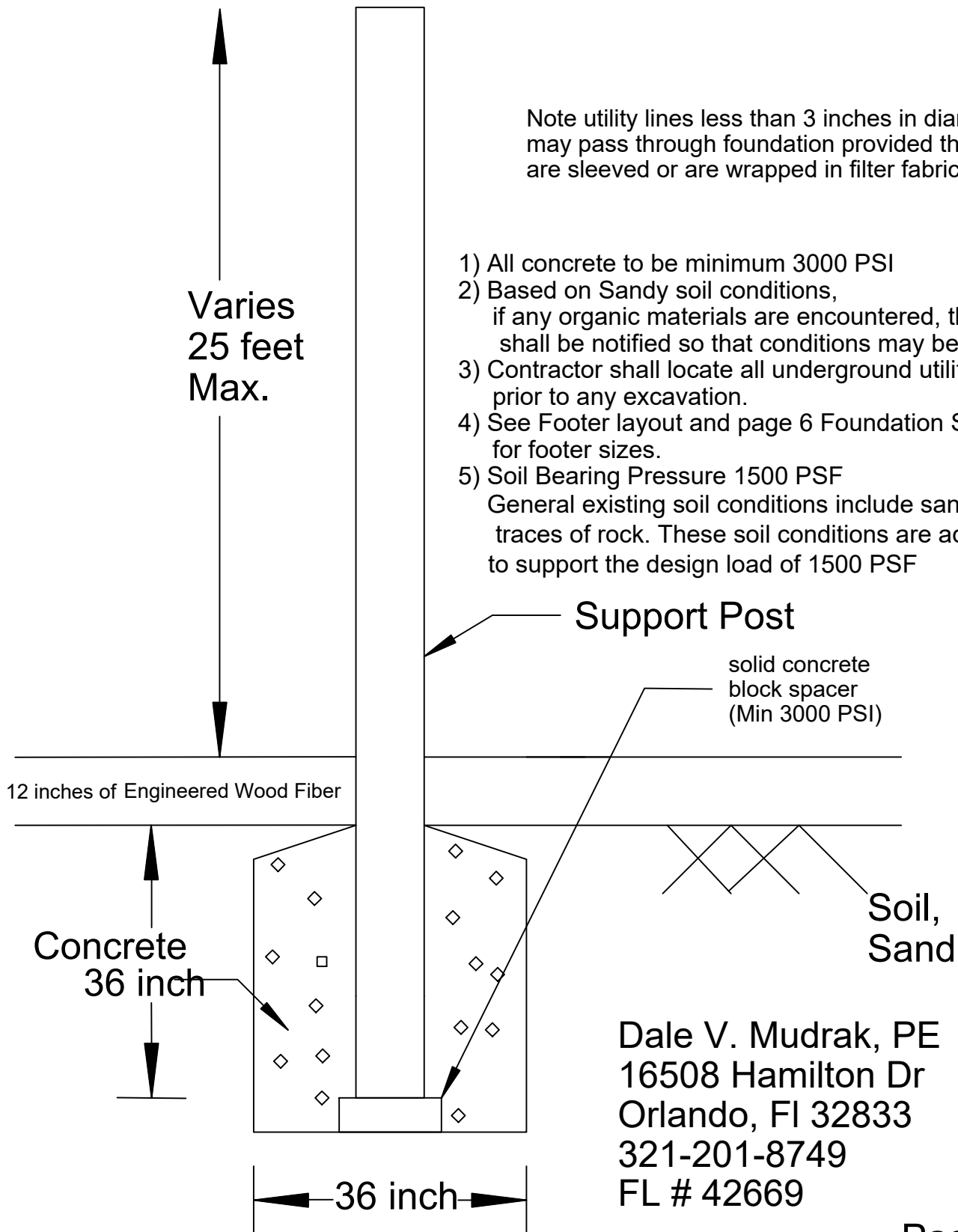
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Orlando FL 32833
Tel 321-201-8749
FL PE # 42669

Typical Footer Detail



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FL # 42669

Typical Playground Deck with Shade Footer Detail



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Exhibit "A"

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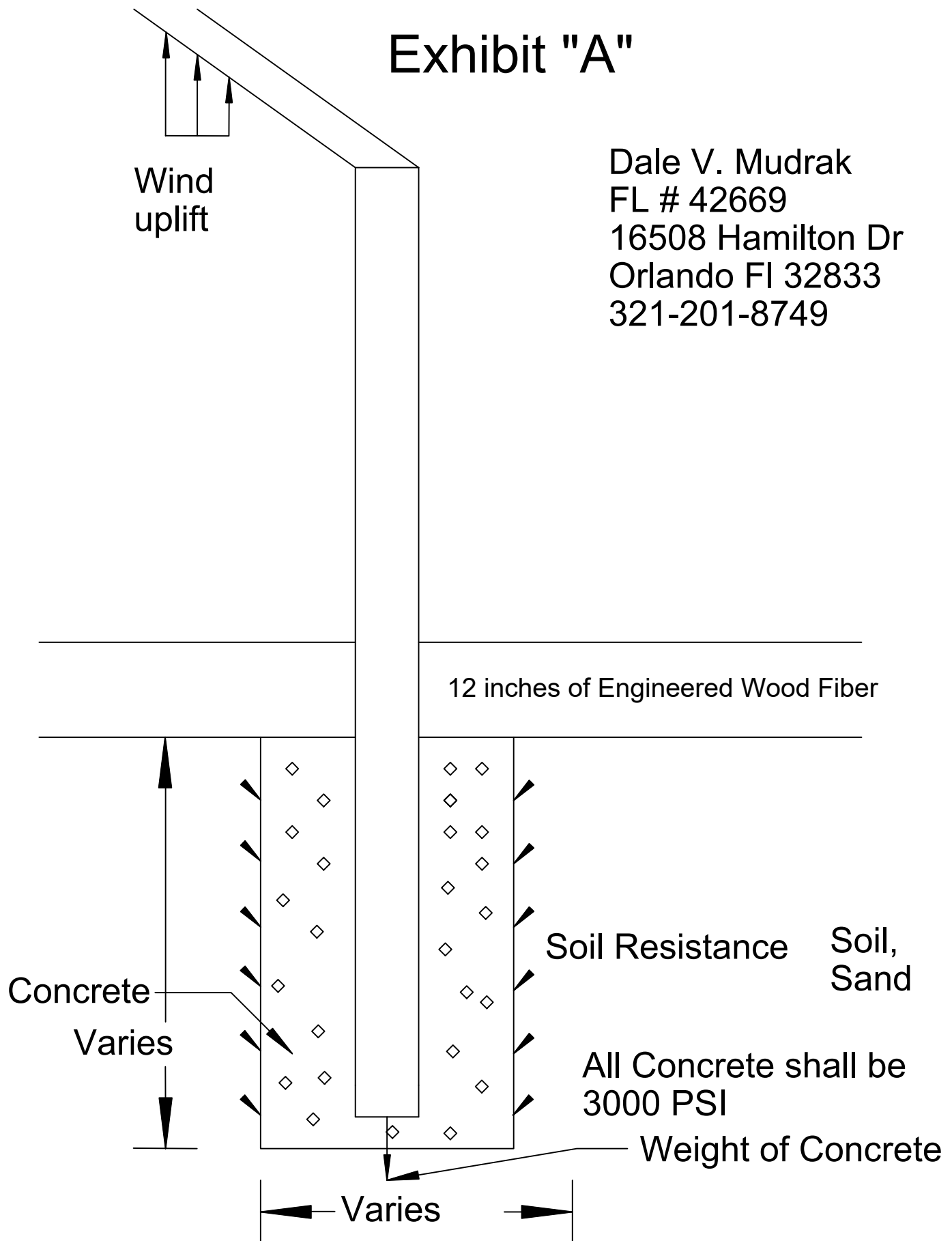
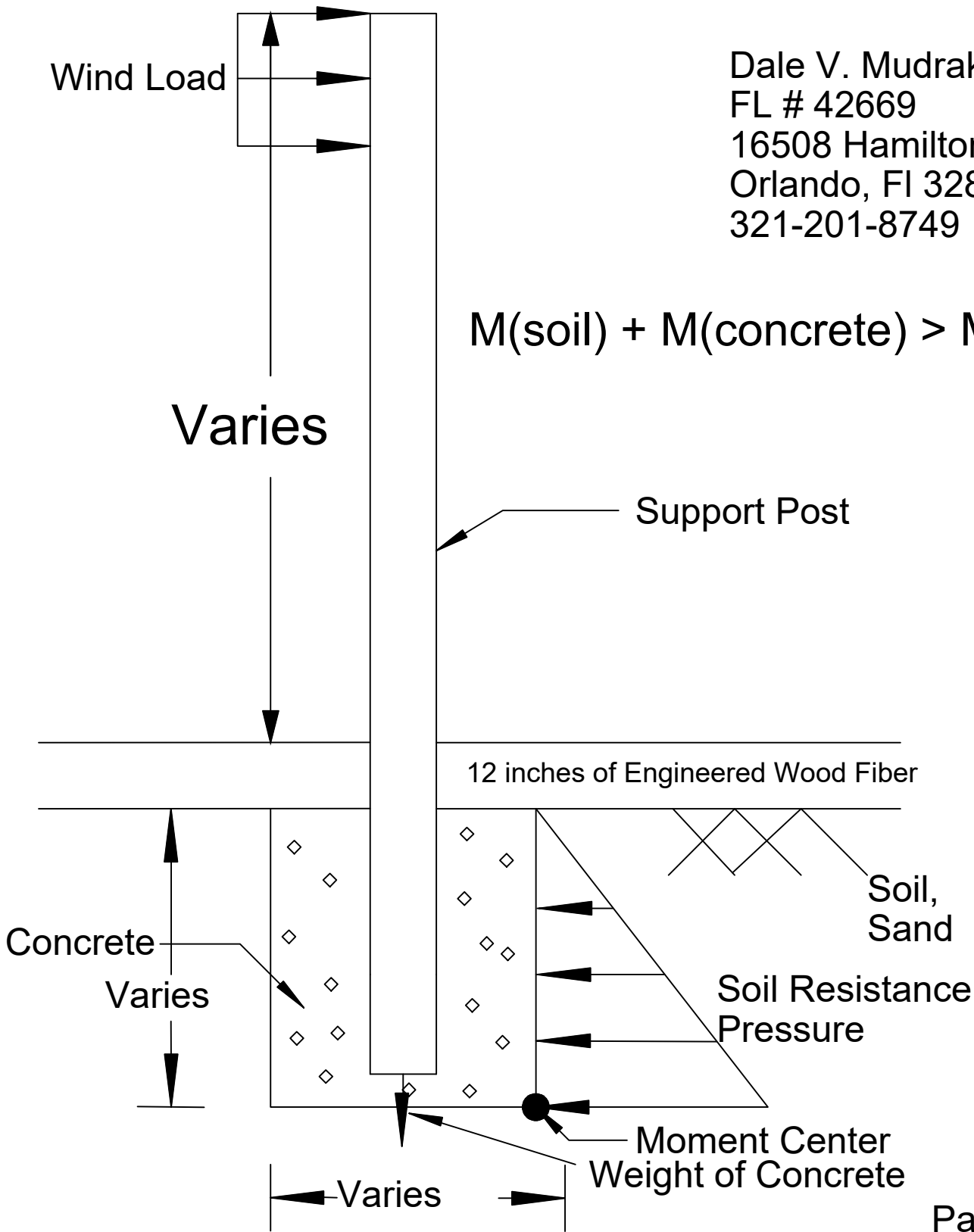


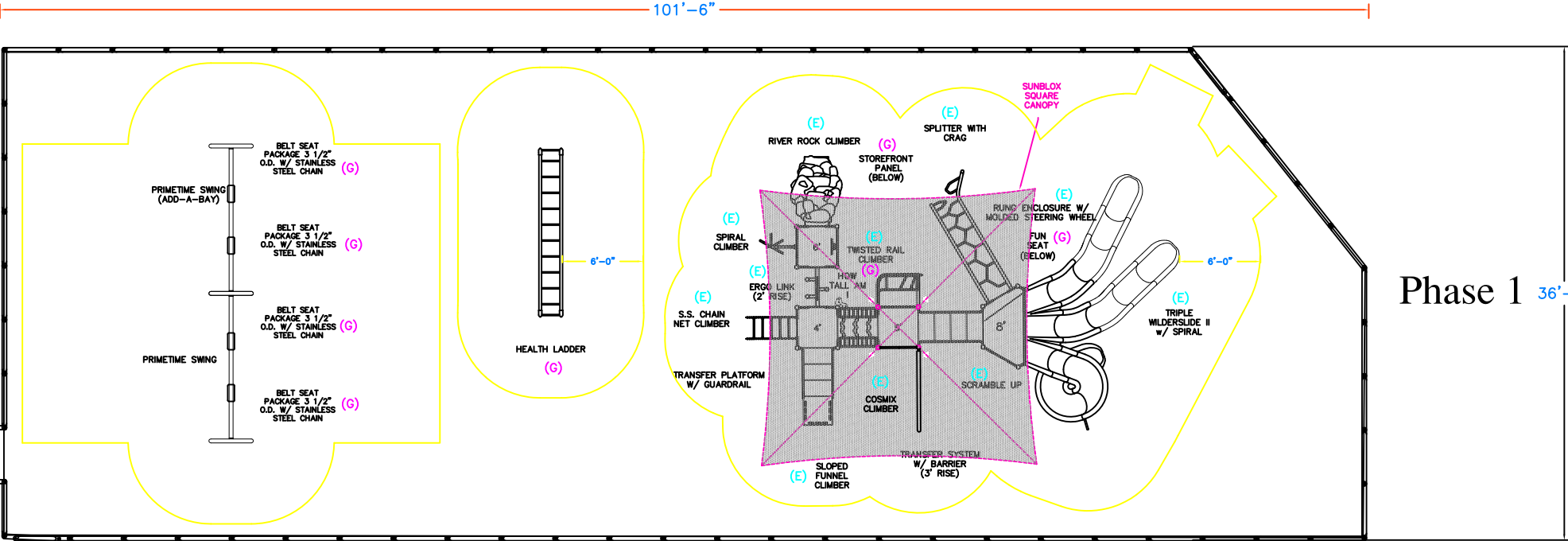
Exhibit "B"

Dale V. Mudrak
FL # 42669
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Orlando, FL 32833
321-201-8749

$$M(\text{soil}) + M(\text{concrete}) > M(\text{wind})$$



ADA Sidewalk
by customer



6'-0"
Playground
Equipment
Minimum Use
Zone

Playground Equipment Details -

Age Group : 5-12

Elevated Components (E) : 10
Accessible Elevated Components : 10
(minimum required 4)

Ground Level Components (G) : 8
(minimum required 3)
Types of Components : 4
(minimum required 3)

This layout meets the requirements of the 2020 Florida Building Code, 7th Edition and the 2020 Florida Building Code, 7th Edition Accessibility Code.

Playground Layout is in Compliance with DOJ 2010 ADA Standards for Accessible Design. Including all surfacing material and accessible routes.

All Components are IPEMA Certified
All Components are ASTM & CPSC Compliant

This layout meets the requirements of the Florida Building Code and Accessibility Code 1008.

(E) (E) = ELEVATED COMPONENTS
(G) (G) = GROUND LEVEL COMPONENTS

GameTime
PLAYCORE Company
150 PlayCore Drive SE
Fort Payne, AL 35967
www.gametime.com



Belmont Academy Charter School
Lake City, FL
Phase 1 Rev 2
Representative
DRP

This Unit includes play events and routes or travel specifically designed for special needs users. It is the opinion of the manufacturer that these play events and routes of travel conform to the accessibility requirements of the ADA (Americans with Disabilities Act)

Total Elevated Play Components	0	Required	0
Total Elevated Play Components Accessible By Ramp	0	Required	0
Total Elevated Components Accessible By Transfer	0	Required	0
Total Accessible Ground Level Components Shown	0	Required	0
Total Different Types Of Ground Level Components	0	Required	0

This play equipment is recommended for children ages
5 - 12

Minimum Area Required:
Scale: NTS
This drawing can be scaled only when in an 18" x 24" format

IMPORTANT: Soft resilient surfacing should be placed in the use zones of all equipment, as specified for each type of equipment, and at depths to meet the critical fall heights as specified by the U.S. consumer Product Safety Commission, ASTM standard F 1487 and Canadian Standard CAN/CSA-Z-614

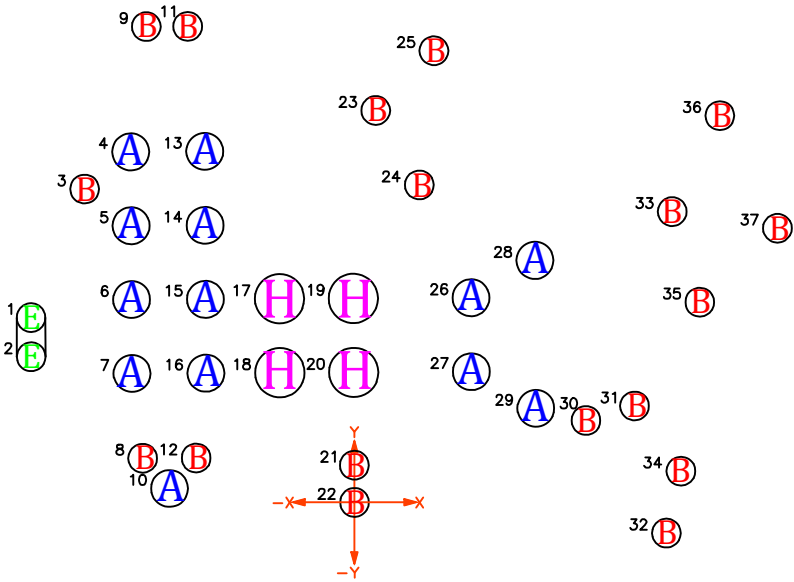
Drawn By:
SC
Date:
03/31/2022
Drawing Name:
Belmont Academy (G-E)

FOOTER SCHEDULE

Footer Type	Footer Diameter (inches)	Footer Depth (inches)	Configuration
A	18	18	Round
B	14	18	Round
E	14	24	Round
H	36	36	Round

FOOTINGS ORDNATE TABLE			
HOLE	X	Y	DIAG
1	-13'-1 1/2"	7'-6"	15'-1 1/2"
2	-13'-1 1/2"	5'-11"	14'-4 1/2"
3	-10'-11 1/2"	12'-8 1/2"	16'-9 1/2"
4	-9'-1"	14'-2 1/2"	16'-10 1/2"
5	-9'-1"	11'-2 1/2"	14'-5"
6	-9'-0 1/2"	8'-2 1/2"	12'-2 1/2"
7	-9'-0 1/2"	5'-2 1/2"	10'-5"
8	-8'-7"	1'-9 1/2"	8'-9 1/2"
9	-8'-5 1/2"	19'-3 1/2"	21'-1"
10	-7'-6"	0'-7"	7'-6 1/2"
11	-6'-9 1/2"	19'-4"	20'-5 1/2"
12	-6'-5"	1'-9 1/2"	6'-8"
13	-6'-1"	14'-3"	15'-6"
14	-6'-1"	11'-3"	12'-9 1/2"
15	-6'-0 1/2"	8'-3"	10'-2 1/2"
16	-6'-0 1/2"	5'-3"	8'-0"
17	-3'-0 1/2"	8'-3"	8'-9 1/2"
18	-3'-0 1/2"	5'-3"	6'-1"
19	-0'-0 1/2"	8'-3 1/2"	8'-3 1/2"
20	-0'-0 1/2"	5'-3 1/2"	5'-3 1/2"
21	0'-0"	1'-6"	1'-6"
22	0'-0"	0'-0"	0'-0"
23	0'-10 1/2"	15'-11"	15'-11"
24	2'-7 1/2"	12'-10 1/2"	13'-1 1/2"
25	3'-2 1/2"	18'-4"	18'-7 1/2"
26	4'-8 1/2"	8'-3 1/2"	9'-6 1/2"
27	4'-9"	5'-3 1/2"	7'-1 1/2"
28	7'-4"	9'-10"	12'-3"
29	7'-4"	3'-10"	8'-3 1/2"
30	9'-4 1/2"	3'-4"	9'-11 1/2"
31	11'-4 1/2"	3'-11"	12'-0"
32	12'-8"	-1'-3"	12'-8 1/2"
33	12'-10 1/2"	11'-9 1/2"	17'-5 1/2"
34	13'-3"	1'-3"	13'-3 1/2"
35	14'-0"	8'-1 1/2"	16'-2 1/2"
36	14'-10"	15'-8 1/2"	21'-7"
37	17'-2"	11'-1 1/2"	20'-5 1/2"

NOTE:
ON NON-LETTERED HOLES, TO ENSURE
CONCRETE REQUIREMENTS PLEASE REFER TO
EACH COMPONENTS INSTALLATION SHEETS.



150 PlayCore Drive SE
Fort Payne, AL 35967
www.gametime.com

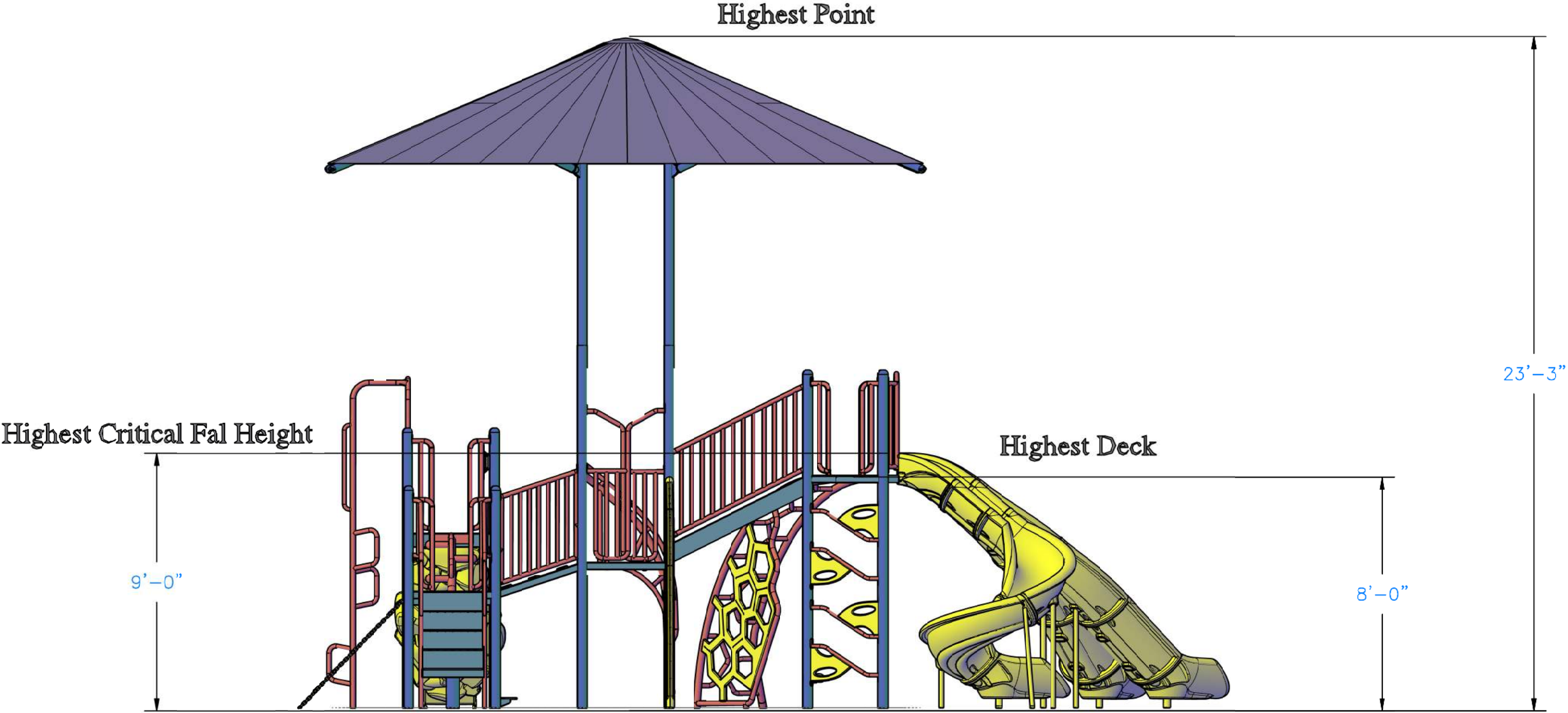
BELMONT ACADEMY CHARTER SCHOOL
LAKE CITY, FL
PHASE 1 REV 2
Representative
DRP

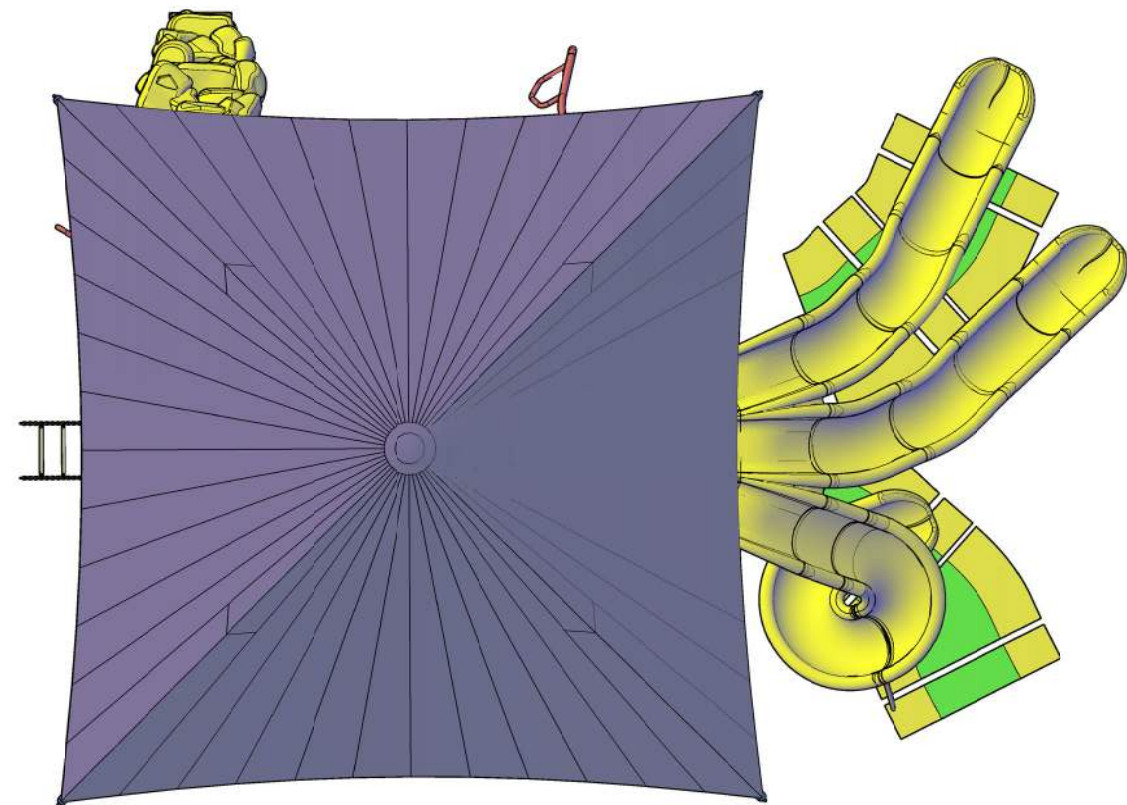
This play
equipment is
recommended
for children ages
5 - 12

Minimum Area Required:
Scale: 1" = 5'-0"
This drawing can be
scaled only when in
an 18" x 24" format

IMPORTANT: Soft resilient surfacing
should be placed in the use zones of all
equipment, as specified for each type of
equipment, and at depths to meet the
critical fall heights as specified by the U.S.
consumer Product Safety Commission,
ASTM standard F 1487 and Canadian
Standard CAN/CSA-Z-614

Drawn By:
SC
Date:
03/31/2022
Drawing Name:
BELMONT (FOOTERS)





TOP VIEW



ISO VIEW



FRONT VIEW



RIGHT SIDE VIEW



150 PlayCore Drive SE
Fort Payne, AL 35967
www.gametime.com



Belmont Academy Charter School
Lake City, FL

Representative
DRP

This play
equipment is
recommended
for children ages
5-12

Minimum Area Required:

Scale: NTS

This drawing can be
scaled only when in
an 11" x 17" format

IMPORTANT: Soft resilient surfacing
should be placed in the use zones of all
equipment, as specified for each type of
equipment, and at depths to meet the
critical fall heights as specified by the U.S.
consumer Product Safety Commission,
ASTM standard F 1487 and Canadian
Standard CAN/CSA-Z-614

Drawn By:
SC

Date:
04/01/2022

Drawing Name:
Belmont (4View)

PRIME TIME

GameTime

A PLAYCORE Company

1-800-235-2440

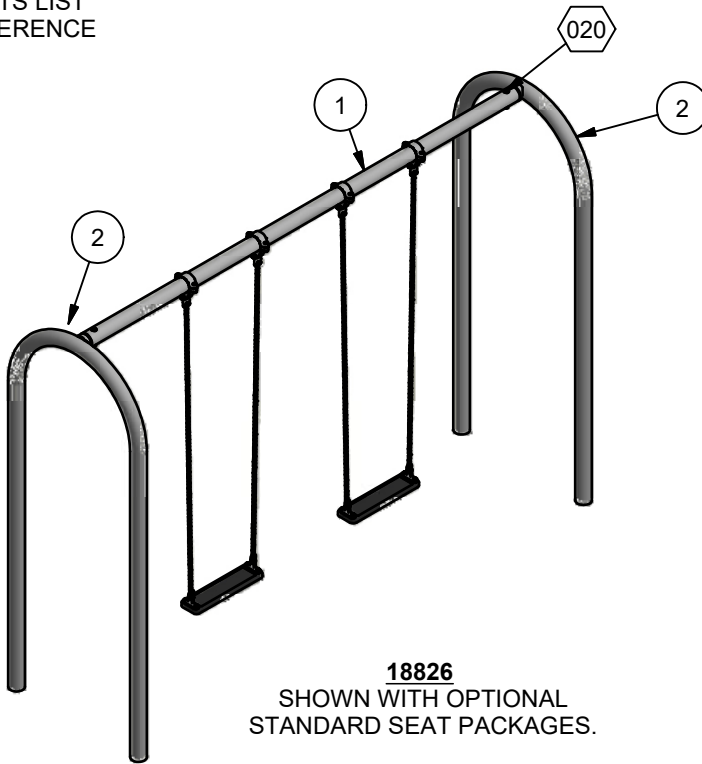
ISSUED/REVISED: 6/5/2019

18826 ARCH SWING

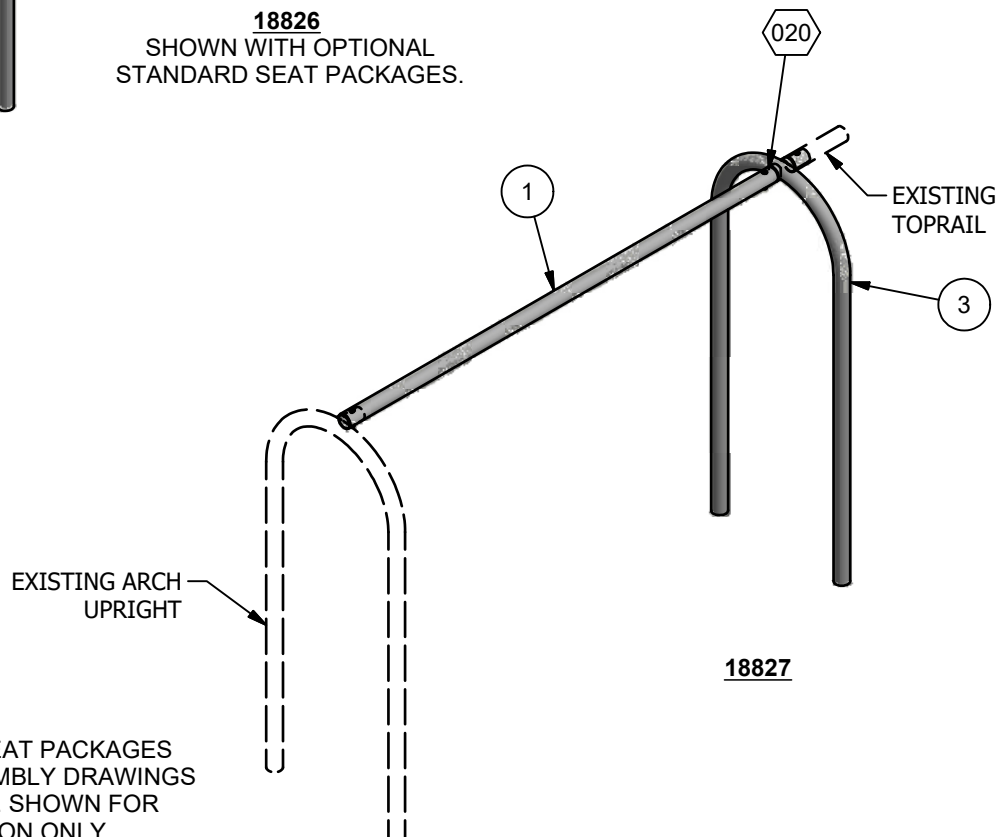
⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

FREESTANDING 18826
ADD-A-BAY 18827

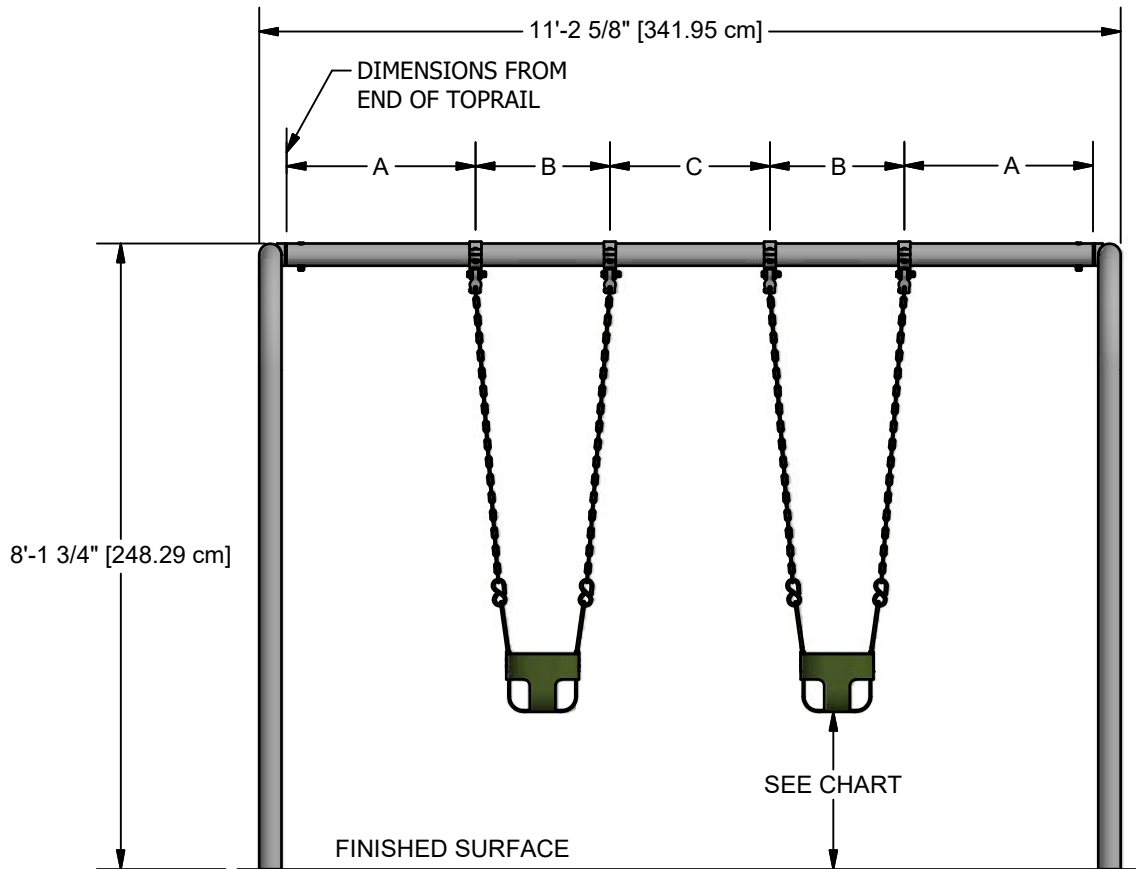


ASSEMBLY DRAWINGS



NOTE: SWING SEAT PACKAGES
SHOWN ON ASSEMBLY DRAWINGS
NOT INCLUDED. SHOWN FOR
ILLUSTRATION ONLY.

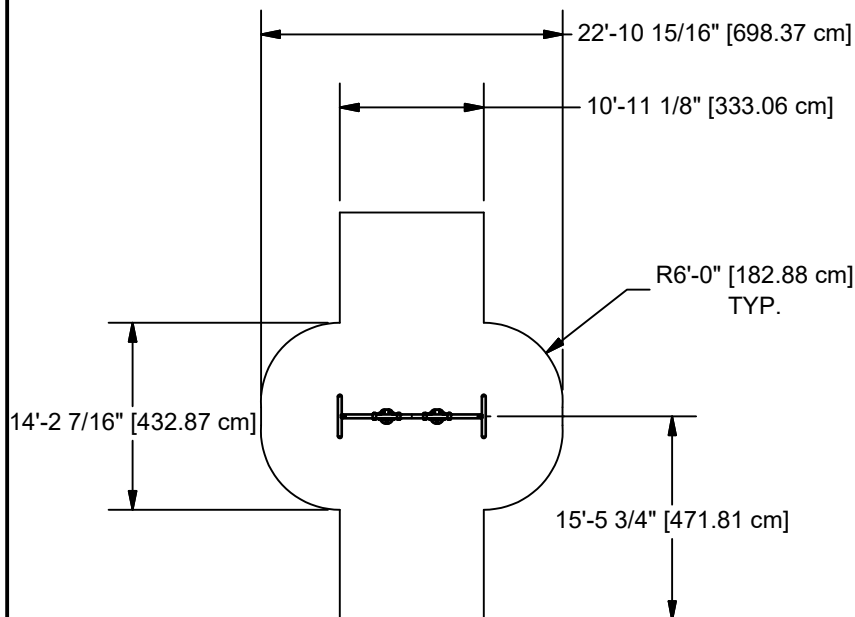
TOPRAIL DIMENSIONS	
DIM A	2'-5 1/2" [74.93 cm]
DIM B	1'-9" [53.34 cm]
DIM C	2'-1" [63.50 cm]



18826 SHOWN (18827 SIMILAR)
WITH OPTIONAL ENCLOSED TOT
SEAT PACKAGES (NOT INCLUDED)

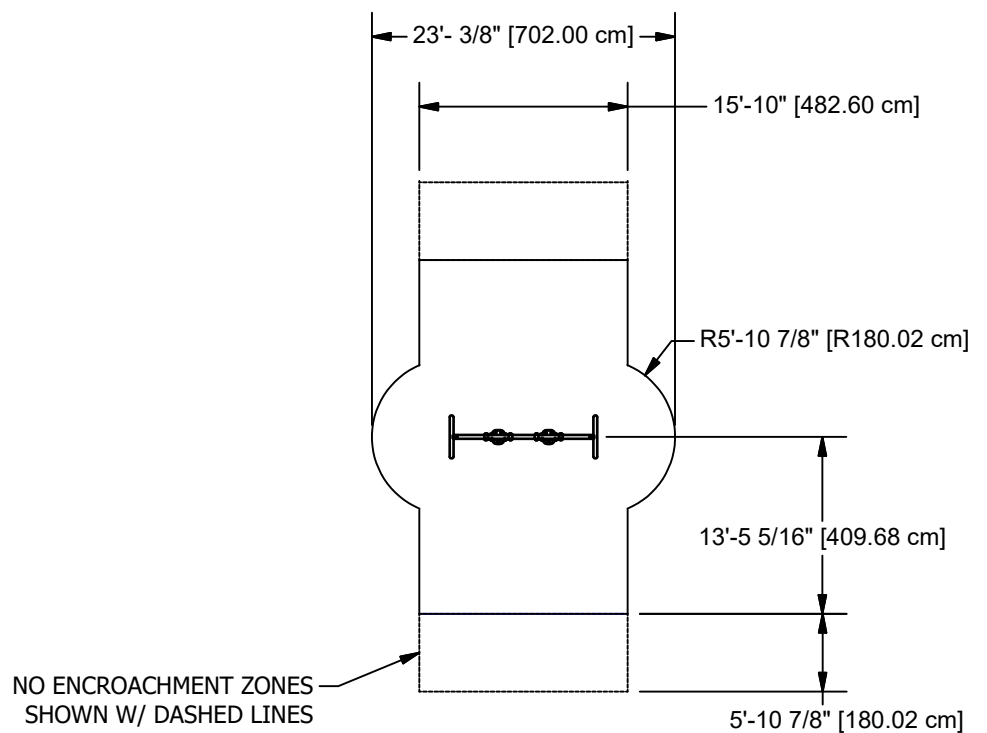
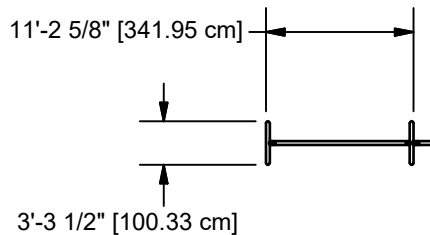
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
CANADIAN	BELT & SUPER SEAT - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	BELT & SUPER SEAT - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	BELT & SUPER SEAT - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A

MEASURED WHEN OCCUPIED BY MAXIMUM USERS



TOP VIEWS

18826



18826 (CSA ONLY)

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 10'-11 1/8" [3.33M].

SPECIFICATIONS

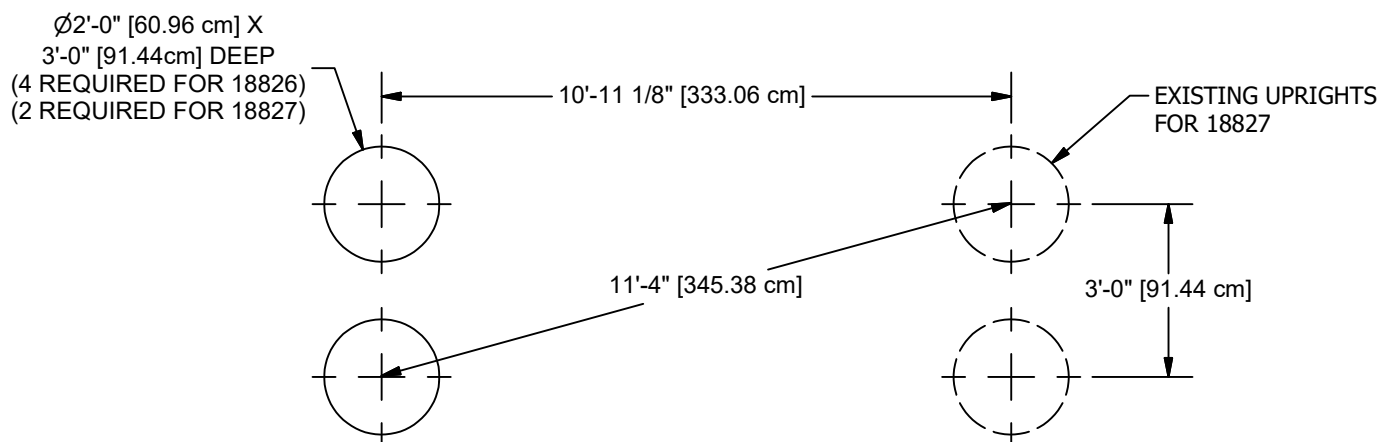
TOPRAIL AND ARCH: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Arch includes a welded 3-1/8" O.D. galvanized steel sleeve to which the toprail is fastened.

FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or

powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to change specifications without notice.



GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 005. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED:
 .23 CUBIC YARDS
 .18 CUBIC METERS
 (PER HOLE)

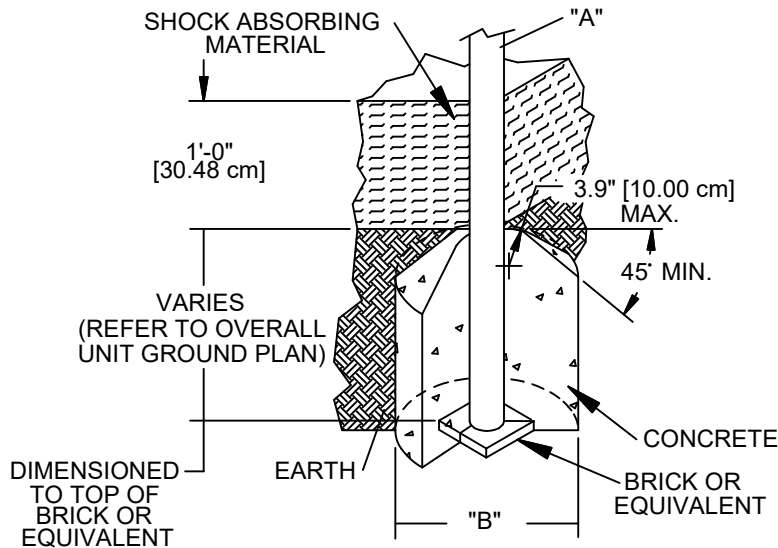
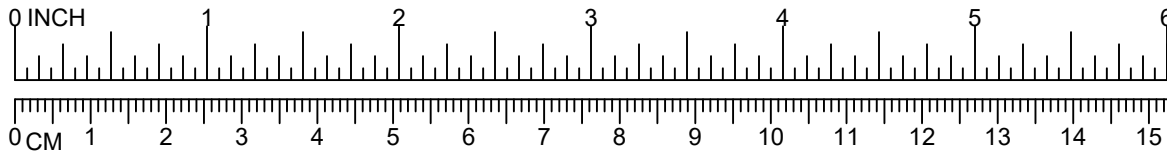
DETAILS -for- 18826 & 18827

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



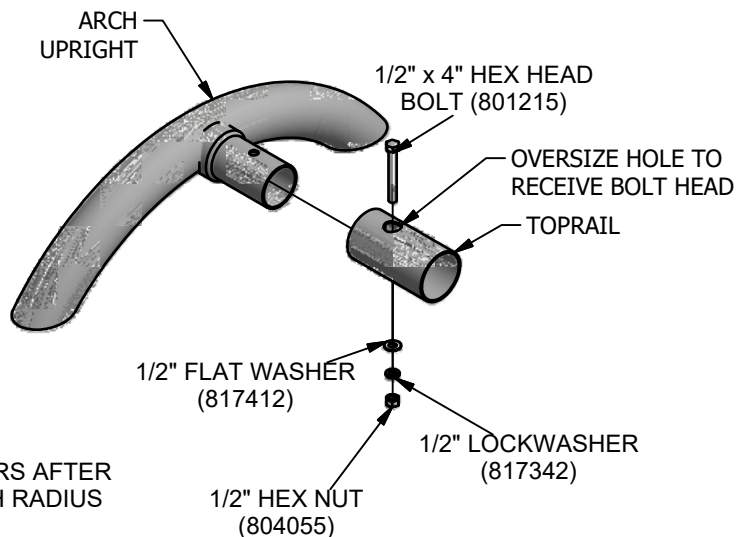
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
ARCH SWING	
5" [12.70 cm]	2'-0" [60.96 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

005

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



NOTE: PEEN FLATWASHERS AFTER INSTALLATION TO MATCH RADIUS OF TOPRAIL.

020



Enriching Childhood Through Play™

1-800-235-2440

8691 SEAT

ISSUED/REVISED: 10/30/17

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE

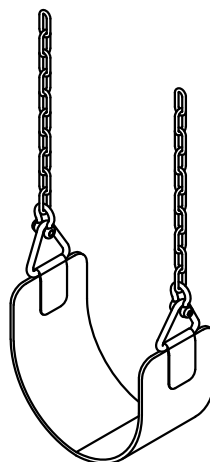


8695, 8696, 8914, SS8914, SS8695,
SS8696

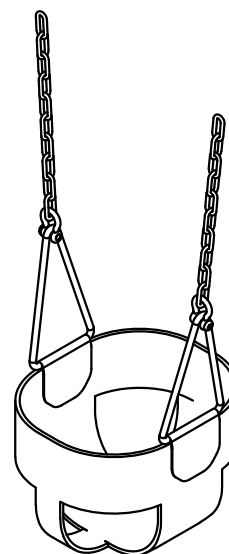


8908, 8909, 8910, 8911, 8918, 8915,
SS8918, SS8908, SS8910, SS8909,
SS8911

BELT SEAT 8691
FULLY ENCLOSED SEAT 8693
8695, 8696, 8908, 8909, 8910, 8911,
8914, 8918, SS8914, SS8695,
SS8696, SS8918, SS8908, SS8910,
SS8909, SS8911
SEAT PACKAGES



8691



8693

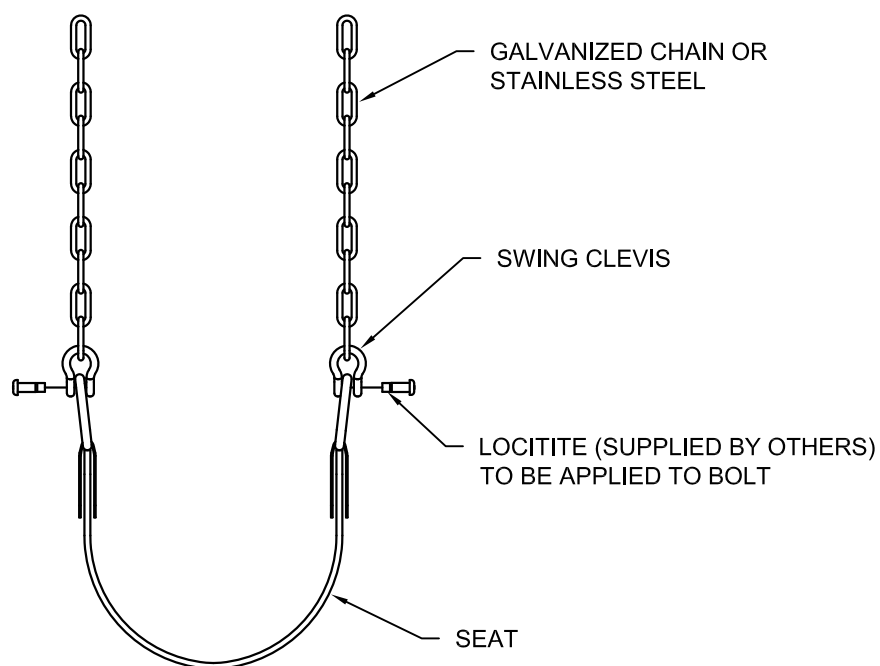
SPECIFICATIONS

*Rights are reserved to discontinue or change specifications without notice.

*Fully Enclosed Seats shall be fabricated with .025" thick stainless steel inserts covered by a dark green colored EPDM rubber.

*Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper.

***NOTE:** Weights are based on average comparisons of each part.



SEAT ASSEMBLY
(WITH GALVANIZED CHAIN
OR STAINLESS STEEL)

1461 SWING HANGER

ISSUED/REVISED: 3/15/16

 = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

SPECIFICATIONS

MATERIAL: All swing hanger castings shall be cast of malleable iron.

HARDWARE: All Carriage bolts, lockwashers, hex nuts, and shoulder bolts shall be zinc plated with a clear chromate coating.

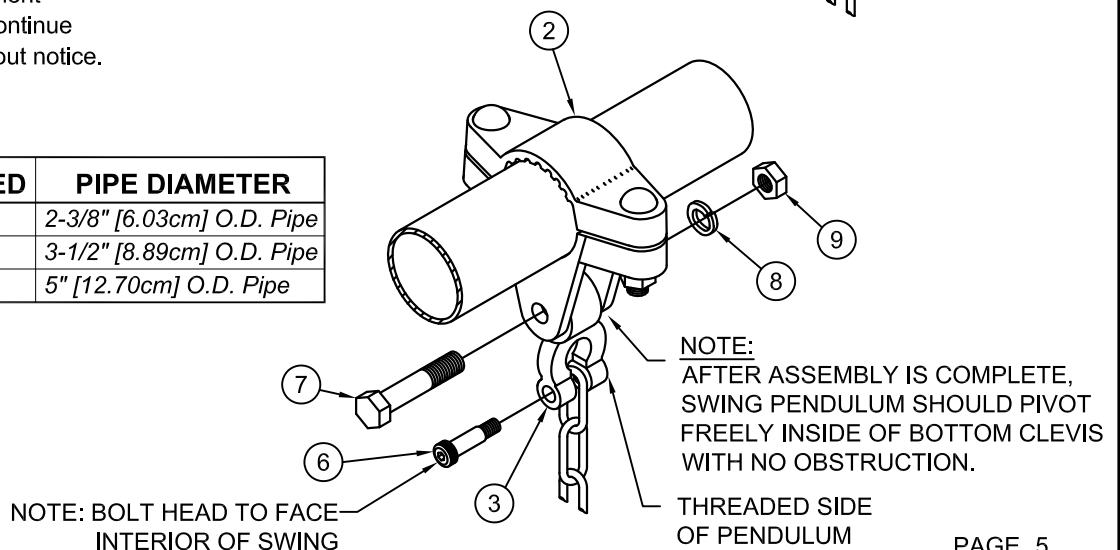
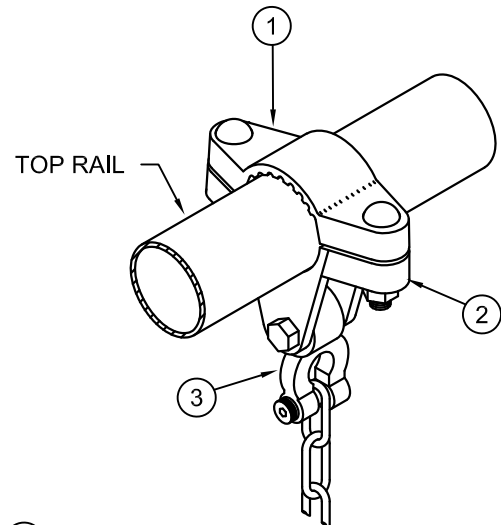
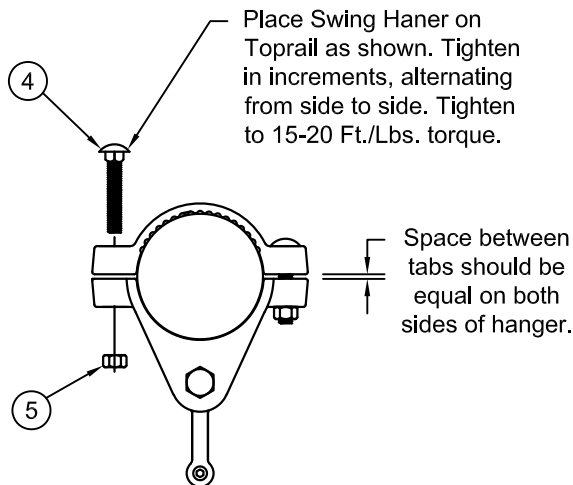
FINISH: All top and bottom clevis parts shall be galvanized or powder coated. The swing pendulum shall be galvanized only.

CONSTRUCTION: The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2-1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut. The top and bottom clevis shall be attached with 3/8" carriage bolt and 3/8" lock nut.

SPECIFICATIONS: GAMETIME has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

PAINTED	GALVANIZED	PIPE DIAMETER
1485	1461	2-3/8" [6.03cm] O.D. Pipe
1486	1462	3-1/2" [8.89cm] O.D. Pipe
1463	1487	5" [12.70cm] O.D. Pipe

GALVANIZED 1461
 GALVANIZED 1462
 PAINTED 1463
 PAINTED 1485
 PAINTED 1486
 GALVANIZED 1487

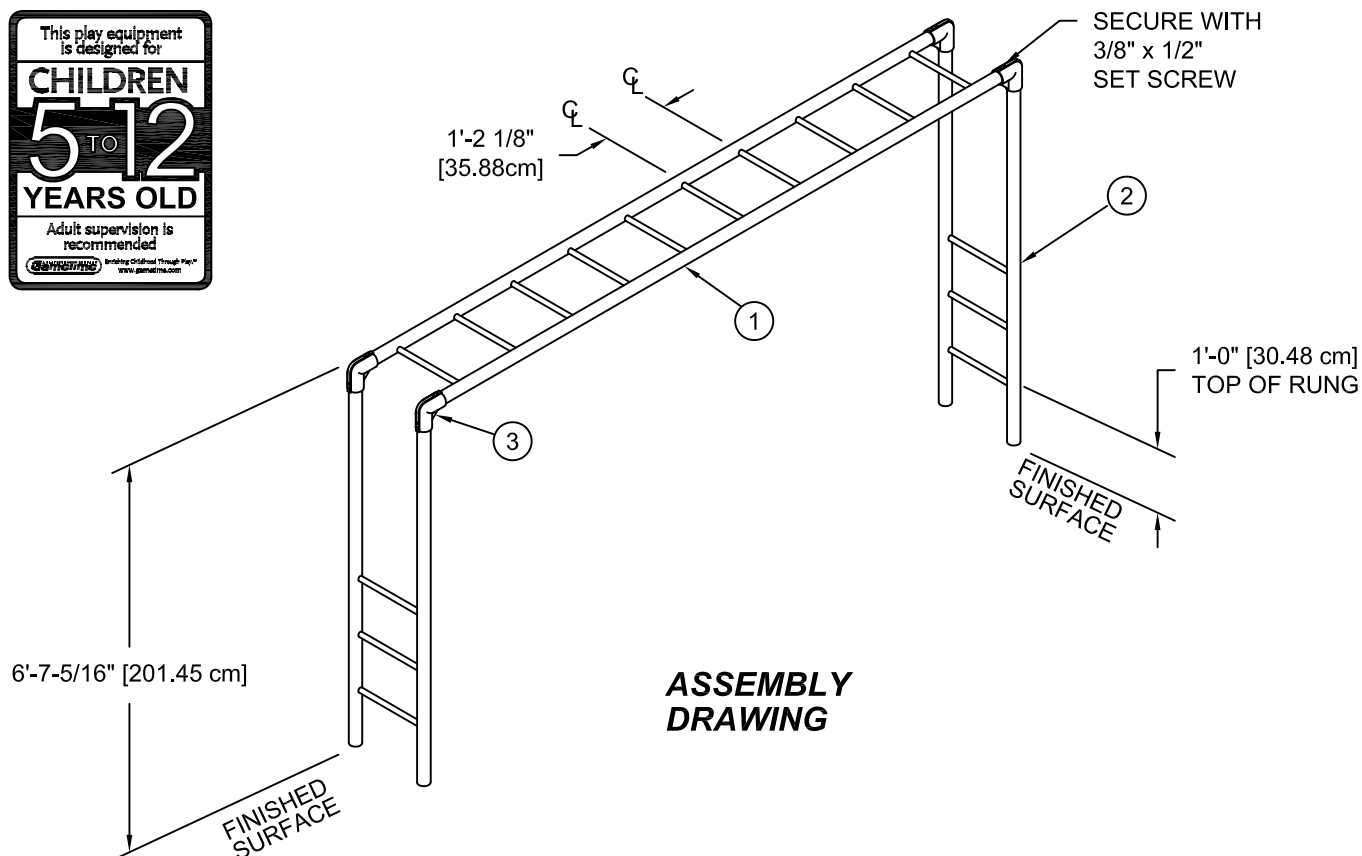
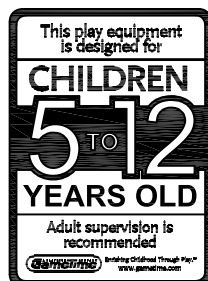


HEALTH LADDER

ISSUED/REVISED: 8/21/18

⬡ = INSTALLATION
DETAIL
○ = PARTS LIST
REFERENCE

NOTE 53



PARTS LIST

REF NO.	DESCRIPTION	NO. REQ'D	PART NUMBER
1	Top Ass'y	1	215532
2	End Ass'y	2	215534
3	Elbow	4	137352
	Hardware Complete	1	100301
	3/8" X 1/2" Set Screw	16	811550*

Unless Otherwise Specified, All Units of Measure are Each
 * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Loctite (supplied by others) should be used on all threaded hardware.

INSTALLATION INSTRUCTIONS

NOTE: THIS SPECIFICATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

STEP 1: IMPORTANT. Insert the four elbow castings on horizontal ladder top first; slide on until they rest against the back of the castings.

STEP 2: Lay horizontal ladder on ground with socket upward.

STEP 3: Position vertical ladders (2) in fittings. Tighten set screws.

STEP 4: Using assembled ladder as a

template, mark hole locations.

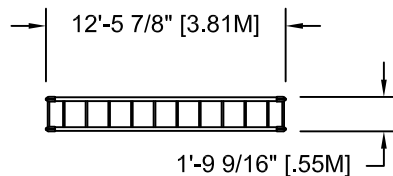
STEP 5: Dig required holes and place a concrete slab, brick or stone, etc., in bottom of each to provide a solid foundation for each leg.

STEP 6: Place assembled climber in holes. Level, be sure each leg is on the foundation blocks.

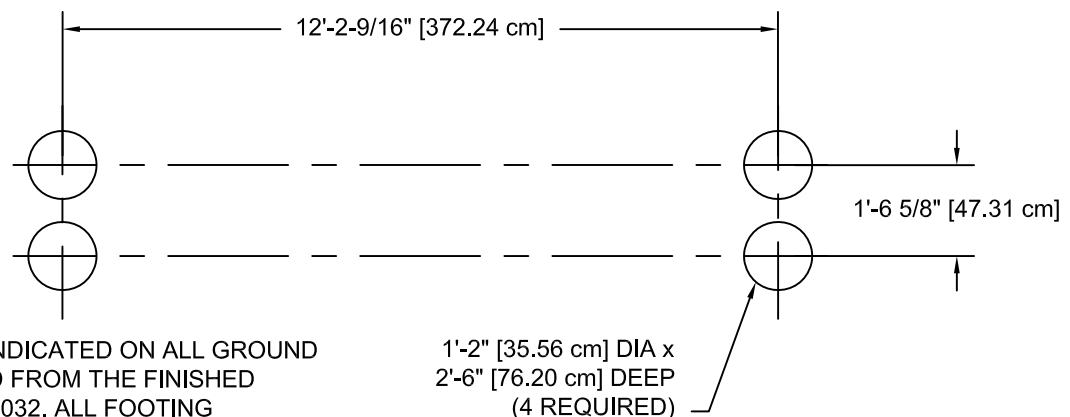
STEP 7: Pour concrete to match Detail 032.

Allow concrete 72 hours to harden before using climber.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.



TOP VIEW



NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

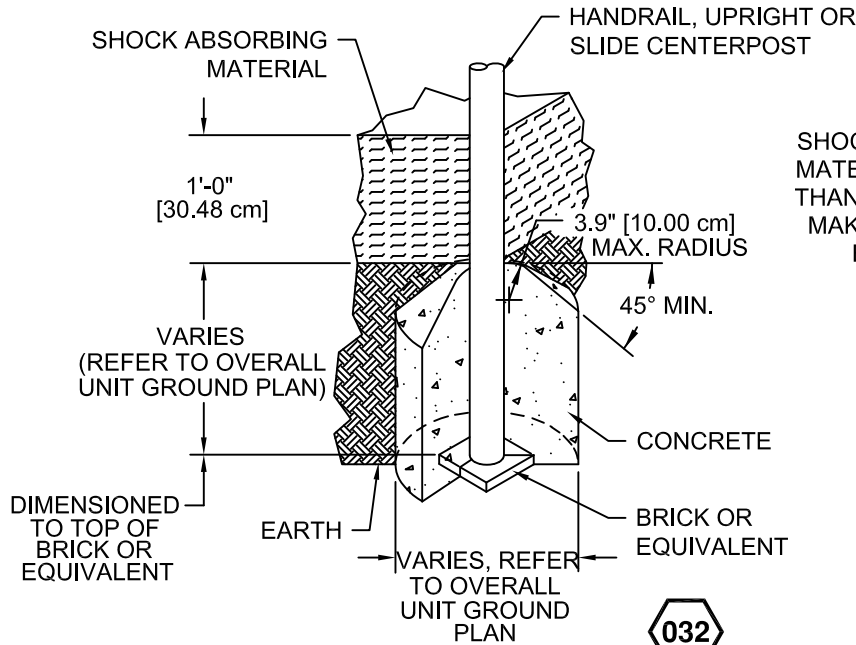
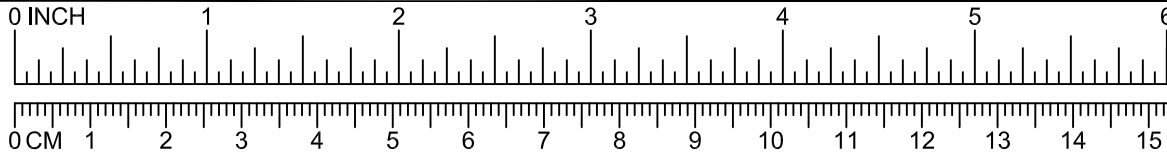
GROUND PLAN

DETAILS -for- 53

IMPORTANT

To Reduce the Risk of Clothing Entanglement in Compliance with ASTM F1487, Any Bolt End Protruding More Than Two Full Threads Beyond the Face of the Nut Shall Be Cut-Off Flush, Filed Smooth and Treated to Prevent Corrosion.

NOTE: After Assembly is Complete, Peen Tee-Nuts and Flatwashers to Match Radius of Pipe.



SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI