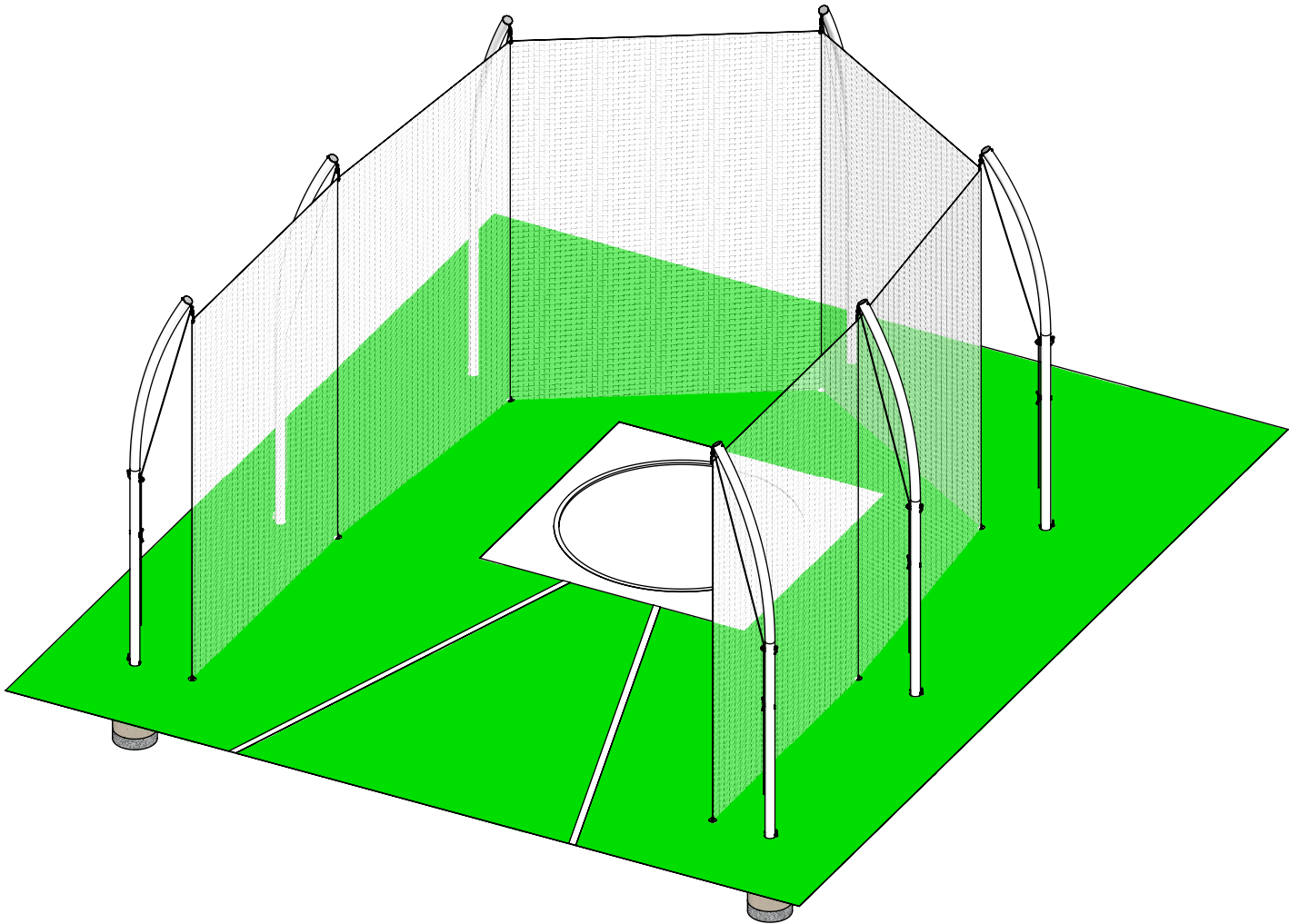
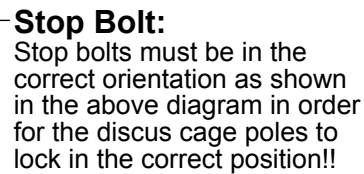


AAE Model No. IDC International Discus Cage



Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

A



Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

DESCRIPTION:

IDC - Ground Sleeve Layout

NOTE:

International Discus Cage

MODEL:

IDC

CATEGORY:

CUSTOMER

DATE:

08/09/10

DWN. BY:

AD

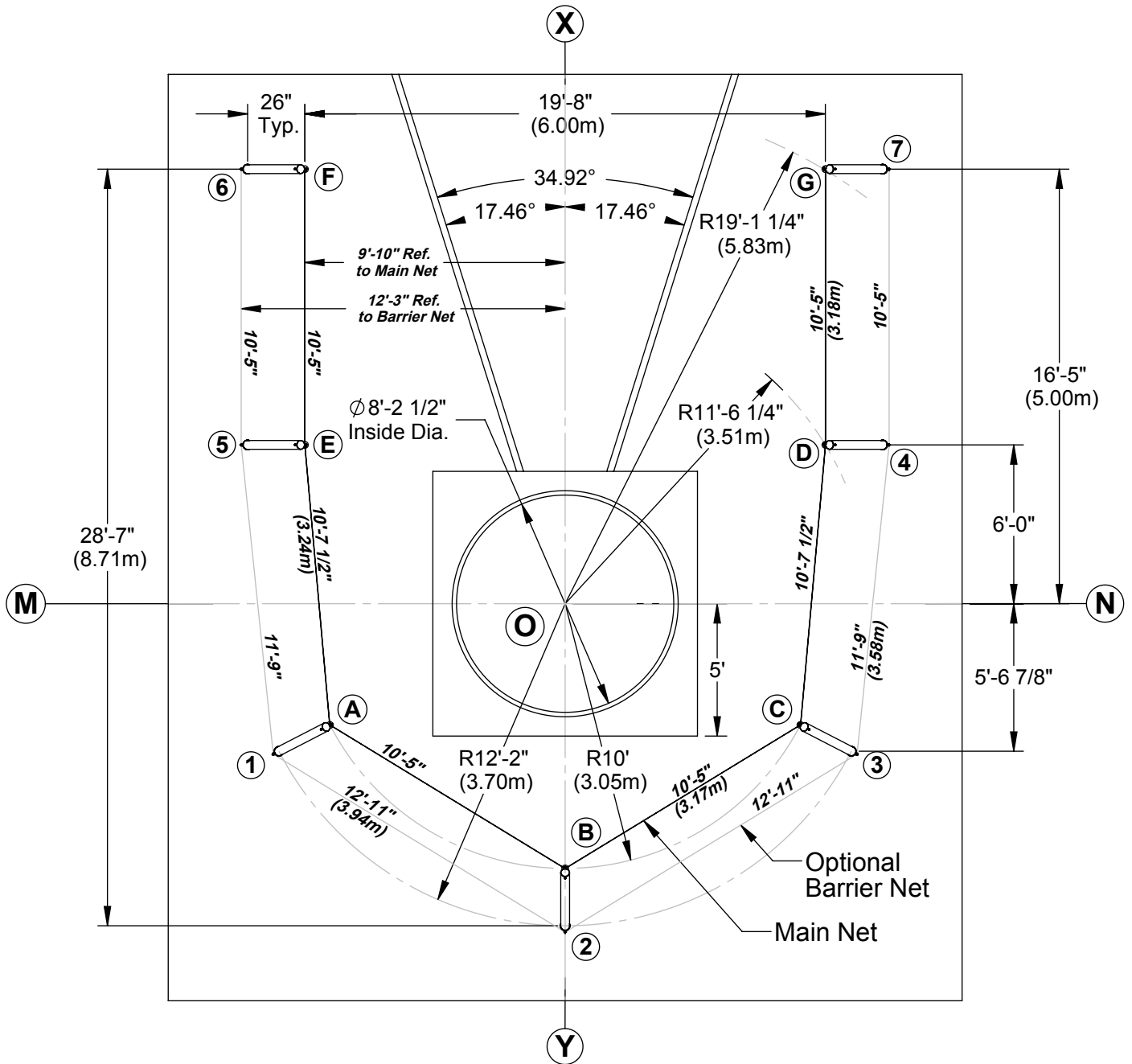
CAD FILE:

IDC Packet

DWG. NO.	
----------	--

IDC-C-001

IDC **International Discus Cage** **Plan View Layout**



Meets & Exceeds All IAAF Rules & Specifications

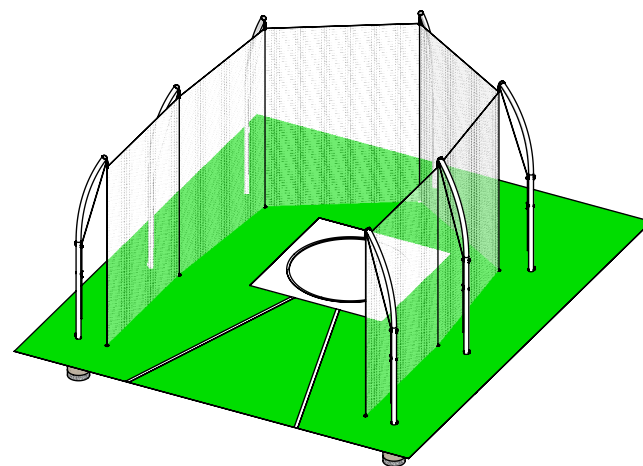
Main Net Size = 14'-0" High x 63'-0" Perimeter
 Optional Barrier Net Size = 8'-0" High x 70'-2" Perimeter



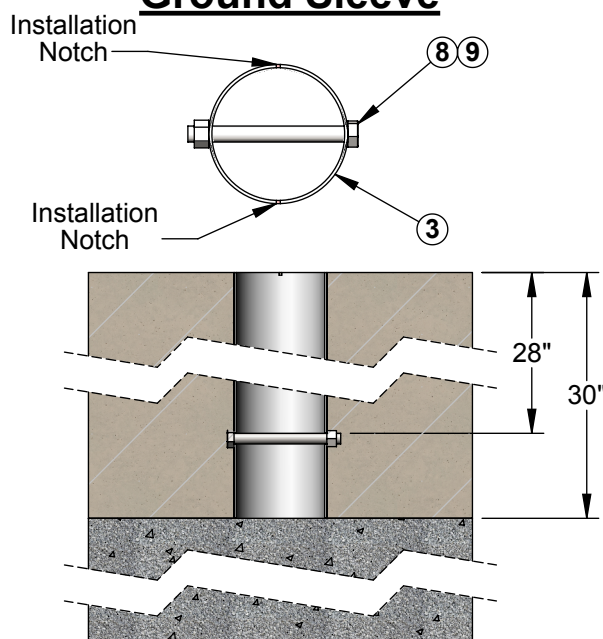
Aluminum Athletic Equipment
 1000 Enterprise Drive, Royersford, PA 19468
 Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

DESCRIPTION:			IDC - Plan View Layout		
NOTE:			International Discus Cage		
MODEL:	IDC		CATEGORY:	CUSTOMER	
DWN. BY:	TAD		DATE:	08/09/10	
CAD FILE:	IDC Packet		DWG. NO.	IDC-C-002	

IDC **International Discus Cage** **Installation/Upright Specifications**



IDC **Ground Sleeve**



IDC Specifications

Post (Aluminum):

- $\phi 4"$ x .125" wall aluminum tube with 24" Offset (Mill Aluminum 6061T6)
- Weight = 32lbs./ea.
- All Hardware is RUSTPROOF

Netting:

- Net: #AAE N361-#36, 1-3/4" sq. knotted Nylon, DBB, length to vary, 1/4" MFP Rope Border, UV protected and 1/4" cable hog tied to top of net



Aluminum Athletic Equipment
 1000 Enterprise Drive, Royersford, PA 19468
 Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

DESCRIPTION:

IDC - Installation/Upright Specifications

NOTE:

International Discus Cage

MODEL:

IDC

CATEGORY:

CUSTOMER

DATE:

08/09/10

DWN. BY:

TAD

CAD FILE:

IDC Packet

DWG. NO.

IDC-C-003

**IDC
INTERNATIONAL DISCUS CAGE (IAAF)
PARTS LIST**

Pt#	Item	Description	Qty.
1	Upright	4.00" o.d. x .125" x 17'6" aluminum tube, 30" arc offset, 6061T6	7
2	Main Net	N361-#36 - 14'x 63', framed with 1/4" rope, B-treated, 1-3/4" sq. knotted nylon	1
3	Ground Sleeve	4.35" o.d. x .100" x 30" aluminum tube, 6061T6, with plastic cap.	7
4	Pulley	#1 deck block galvanized steel pulley	7
5	Pulley Bolt	1/4"-20 x 4-1/2" hex bolt, S.S.	14
6	Cleat	6" galvanized steel cleat	7
7	Cleat bolt	1/4"-20 x 5-1/2" hex bolt, S.S.	14
8	Hex Bolt	1/2"-13 x 5" steel hex bolt, S.S.	7
9	Nylon lock nuts	1/2"-13 steel nylon lock nuts, 18-8 S.S.	7
10	Hoisting Rope	5/16" polypropylene black braided rope, 24' long	7
*11	Eyebolt (Barrier Net)	5/16" – 18 x 2-1/4" eyebolt, S.S. (optional)	14
*12	Barrier Net	N361-#36 - 7'x 70' framed with 1/4" rope, B-treated, 1-3/4" sq. knotted nylon (optional)	1
13	Pear Clip	Pear Clip, 1/4" dia., (*2 extra per upright for optional barrier net)	14 (*28)
14	Eyebolt	3/8"-16 x 2-1/2" eyebolt, S.S.	7
15	Concrete Anchor	3/8"-16 tampin insert, P25T	7
16	Nut	1/4"-20 nylon lock nut, S.S.	28
17	Nut	1/4"-20 acorn nut, S.S.	14
18	Eyebolt	5/16"-18 x 6" eyebolt, S.S.	7
19	Swivel Pulley	#3-5 fast eye, galvanized steel, swivel pulley	7
20	Nut	5/16"-18 nylon lock nut, S.S.	7

*** OPTIONAL ITEMS FOR BARRIER NET**

FOR TECHNICAL ASSISTANCE, CALL 1-800-523-5471

K:\AAE Data\PDF Files\Product Instructions & Parts Lists\Track & Field\IDC\IDC Parts List.doc
Copyright © 2010 Aluminum Athletic Equipment Co.

**IDC
INTERNATIONAL DISCUS CAGE (IAAF)
LAYOUT AND INSTALLATION INSTRUCTIONS**

LAYOUT - (Reference Drawing No. IDC-C-001. 002, & 003 for details)

- Step No. 1 Using masonry string, establish perpendicular lines "MN" and "XY", which intersect at point "O", the center of the discus circle.
- Step No. 2 Establish point centered off point "O" on the "XY" line 12'-2" (3.70m) away.
- Step No. 3 With point "O" as the center, draw/scribe a 12'-2" (3.70 m) arc. The intersection between the arc and XY is the location of point "2". Measure 10'-10" from either side of "XY" to intersect with 12'-2" arcs to locate points "1" and "3".
- Step No. 4 Establish a line 6'-0" (1.83m) away on the "XY" line (towards the front of the cage) from point "O", and parallel to line "MN" (towards the front of the cage). Measure 12'-0" (3.65m) from each side of line "XY" on this line to locate points "4" and "5".
- Step No. 5 Establish a line 16'-5" (5.00m) away from, and parallel to, line "MN" (towards the front of the cage). Measure 12'-0" (3.65m) from each side of line "XY" to locate points "6" and "7". (Points "6" and "7" should be 10'-5" (3.17m) away from points "4" and "5" respectively.)

NOTE: Points "1" thru "7" are the location of the Center of the ground sleeves (for the main uprights) to be installed.

- Step No. 6 Locate Points "A" THRU "H": Extend parallel, perpendicular, and radial lines 26" from points "1" thru "7" to locate points "A" thru "G". (Note: "B-2" runs in line on "XY" with point "O", "A-1" and "C-3" point to the center of the circle, and "E-5", "D-4", "F-6", and "G-7" all run parallel with line "MN".) See Drawing. No. IDC-C-001 for details.

NOTE: Points "A" thru "G" are the location of the Center of the concrete piers that will anchor the bottom of the main net.

INSTALLATION

- Step No. 1
Placing Ground
Sleeves Drill or dig 18"-24" diameter holes a minimum of 36" deep **(Consult local building codes for concrete depth and drainage requirements)** at points "1" thru "7". Fill hole with 6" of crushed stone for drainage, so the depth from ground level to the top of the stone is 30". Insert the upright ground sleeves (Item No. 3) at points "1" thru "7" ("bolt side" down). Make sure the ground sleeves are flush with the ground, centered, leveled, (individually, as well

IDC

INTERNATIONAL DISCUS CAGE (IAAF)

LAYOUT AND INSTALLATION INSTRUCTIONS

as with each other), and plumb. Also, rotate the ground sleeves so that the two (2) grooves (Installation Notches) on top of the ground sleeves are aligned correctly – See “Installation Notch Alignment” on Drawing No. IDC-C-001 for details. A mason’s string or straight edge may be used to aid in the aligning process.

NOTE: It is **extremely important** that the Installation Notches on top of the ground sleeve are in proper alignment, so the key slot in the main upright will lock the upright into its proper position when set into the ground sleeve.

Step No. 2
Setting Ground
Sleeves

When all the ground sleeves are in the proper position and alignment, the concrete can be poured. **(Be sure not to get any concrete inside the ground sleeves!)** As the concrete cures, constantly check to see that the ground sleeves are flush with the ground, centered, plumb, and in the correct alignment.

Step No. 3
Drilling & Pouring
concrete piers

Drill or dig 5" - 6" diameter holes 10" deep (Consult local building codes for concrete depth and drainage requirements.) at points "A" thru "G". Fill void with concrete to a level 2" below ground level. While the concrete is still in a semi-pliable state, place the tampin insert (Item No. 15) in the center of the pier so that the top of the insert is flush with the top level of the concrete. **(DO NOT get concrete inside the tampin insert!)** When concrete has hardened, thread 3/8"-16 eyebolt w/ attached Pear Clip (Item Nos. 13 & 14) into inserts.

Step No. 4
Upright Assembly

**See Drawing No.
IDC-C-003**

Attach swivel pulley, w/ attached eyebolt, (Item Nos. 18 & 19) to the top hole of the upright using a 5/16"-18 nylon lock nut (Item No. 20). (If there are 2 holes present at the top of the upright, mount the pulley and eyebolt through the top hole.) Attach a fixed pulley (Item No. 4) through the middle set of holes using 1/4"-20 x 4-1/2" hex bolts (Item No. 5) and 1/4"-20 nylon lock nuts (Item No. 16). Attach one cleat (Item No. 6) through the lower set of holes using 1/4"-20 x 5-1/2" hex bolts (Item No. 7) and 1/4"-20 nylon lock nuts (Item No. 16). Cap threads with 1/4" -20 acorn nuts (Item No. 17). Thread hoisting rope (Item No. 10) with attached pear clip (Item No. 13) through top pulley, middle pulley, and secure to cleat. After concrete cures, slowly lower assembled upright into ground sleeve. Repeat procedures to assemble other five uprights.

Step No. 5

Lower hoisting rope w/ attached pear clip (Item Nos. 10 & 13) to

**IDC
INTERNATIONAL DISCUS CAGE (IAAF)
LAYOUT AND INSTALLATION INSTRUCTIONS**

- Hanging Main Net about 4 ft. above ground level. (Keep end of rope secured to cleat so you don't lose the rope!) Layout the main net and attach the swivel snap on the end of the hoisting rope to the framing rope on the top border of the net. (It is best to find the top center of the net first, attach the pear clip at pole #2 here, and then work your way out to both ends.) After the entire net is snapped into position, raise the net all the way by the hoisting rope and secure the end of the rope firmly and professionally to the cleat. (Consult former Navy personnel or Scout for proper method.)
- See Drawing No. IDC-C-002**
- *Barrier Net (Optional) Screw in two (2) eyebolts with attached Pear Clips (Item Nos. 11 & 13) into threaded inserts located on the rear of each main upright. Layout barrier net, and attach frame of net to pear clips. (Any excess net may be wrapped around and laced to the upright.)

FOR TECHNICAL ASSISTANCE, CALL 1-800-523-5471

K:\AAE Data\PDF Files\Z-Product Instructions & Parts Lists\Track & Field\IDC\IDC Installation Instructions.doc
Copyright © 2010 Aluminum Athletic Equipment Co.