West Seattle Junction Park

ADDENDUM NUMBER 1

July 1, 2026

PUBLIC WORKS CONTRACT NUMBER: 2019-094
ORDINANCE NUMBER(S): 125475, 126490, 126725, 126955
FUNDING SOURCE: REET II, SEATTLE PARK DISTRICT FUND, General Fund

NOTICE TO ALL BIDDERS:

Owner:	City of Seattle Department of Facilities and Administrative Services City Purchasing and Contracting Services, Construction Contracting 700 Fifth Avenue, Suite 4350 Seattle, WA 98124-4687
Administering Department:	Seattle Department of Parks and Recreation 300 Elliott Ave W, Suite 100 Seattle, WA 98134
To All Bidders:	Attention is called to the following items effective July 1, 2026, which shall be added to, deleted from, or changed from the CONTRACT DOCUMENTS, thereby incorporating the addendum as part of the CONTRACT DOCUMENTS.
ITEM #1:	Section 00 11 13 and Sheet L3.0 Material Plan Updating Section 00 11 13 and Sheet L3.0 to remove any mention of benches in Additive #1, reflecting that bench seating is part of the base bid.
ITEM #2:	Drawing Sheet L3.0 Material Plan Replace entire sheet for: Change Play Equipment and Artificial Turf from Owner-Furnished, Owner-Installed (OFOI) to Owner-Furnished, Contractor-Installed (OFCI)
ITEM #3:	Appendix B - Play Area Equipment Specification Replace entire section for:

Approval by: _____

Change Play Equipment and Artificial Turf (Playground Synthetic Turf) with Playmound structural foam including SafteyFoam Pro and infill material from Owner-Furnished Owner-Installed (OFOI) to Owner-Furnished, Contractor-Installed (OFCI). Contractor to provide and install non-supplied parts and materials which include but not limited to concrete foundations, thread-locking fluid, and angular 3/4" clean stone base for the Playground Synthethic Turf system as specified.

Add installer qualification for the Playground Synthetic Turf and Play Mound SafteyFoam Pro and infill material.

ITEM #4: Section 01 41 26; Grading Permit 67689709-GR

Replace Grading Permit - with new experiation date 1/7/2028

Attachment #1	Section 00 11 13
Attachment #2	Appendix B - Play Area Equipment Specification
Attachment #3	Grading permit 67689709-GR
Attachment #4	Sheet L3.0 Material Plan

Approval by: _____

Addendum #1

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. This Section provides some preliminary information about this project to the prospective Bidders. At the end of this section, it includes a copy of the advertisement for this project in the official newspaper.

1.02 TYPE OF CONTRACT

A. This is a Lump Sum contract.

1.03 CONTRACT TIME

A. See **Section 00 52 00 – Agreement Form** for number of working days.

1.04 LIQUIDATED DAMAGES

A. If the successful Contractor fails to complete Work within the time set forth, Contractor shall be charged Liquidated Damages per **Section 4 of the 00 52 00 Agreement Form**.

B. Additional details are specified in **Paragraph 1.08.J of Section 00 72 00 – General Conditions**.

1.05 ADVERTISEMENT FOR BIDS

A. The pre-bid information arranged as it will appear in the Advertisement for Bids in the official newspaper follows:

1.06 CONTACTS

A. Prior to Bid Opening: Fred Gu
Email: Fred.Gu@seattle.gov
Phone Number: 206-666-7795

B. After Bid Opening, before Execution: Purchasing and Contracting
Email: FAS_PW_Admin@seattle.gov
Phone Number: 206-684-0444

C. Prior to Bid Opening: Fred Gu
Email: Fred.Gu@seattle.gov
Phone Number: 206-666-7795

1.07 CONSENT DECREE ACKNOWLEDGEMENT

The City of Seattle (“City”), the United States Environmental Protection Agency (“EPA”) and the Washington State Department of Ecology (“Ecology”), have entered into a Consent Decree to settle the Complaint filed against the City by the United States in the United States District Court for the Western District of Washington, captioned United States of American and the State of Washington v. City of Seattle, Civil Action No. 2:13-cv-678, (“Consent Decree”). The Complaint alleged that the City of Seattle (“City”) violated Sections 301 and 402 of the Clean Water Act, 33

U.S.C. §§1311 and 1342 (“CWA”), and the conditions and limitations of its National Pollutant Discharge Elimination System (“NPDES”) permit issued to the City by Ecology as authorized by EPA under Section 402(b) and the CWA.

Article II, Section 7 of the Consent Decree establishes that “any action taken by any entity retained by the City to implement the City’s obligations under this Consent Decree shall be considered an action of the City for purposes of determining compliance with the Consent

Decree.”

Article II, Section 6 of the Consent Decree requires that the City provide a copy of the Consent Decree to all agents of the City, as well as to any engineering, consulting, or contracting firms or any other entity hired by the City to perform work that might reasonably require compliance with any provision of the Consent Decree. Section 6 expressly requires that “the City shall condition any contract upon performance of the work in conformity with the terms of this Consent Decree.”

The Consent Decree requires, among other things, that the City, its agents and its contractors operate in a manner that does not cause sanitary sewer overflows (“SSOs”) or dry weather overflows (“DWOs”). These requirements are incorporated into this contract, and the Contractor is required to comply with these and all terms of the Consent Decree.

Based on the foregoing, the City has determined that this contract shall be and is subject to the provisions of the Consent Decree, and that the Contractor is expressly required to comply with all terms of the Consent Decree as a condition of this contract with the City, and that a copy of the Consent Decree is attached to this contract as an Appendix.

By signing this contract, Contractor acknowledges receipt of the Consent Decree, and affirmatively represents that it has read the same, understands the requirements of the Consent Decree, and agrees that all Work in this contract shall be performed in conformity with the terms of the Consent Decree. Contractor further acknowledges that in the event that actions by the Contractor causes a violation of the Consent Decree that results in increased costs to the City through increased contractor costs, penalties or other claims, the City reserves all rights and legal remedies to recover such costs.

Addendum #1

CITY OF SEATTLE

West Seattle Junction Landbank Park

Bid Opening: **July 15th, 2026, at 2:00 PM**

PW#2019-094

PROJECT LOCATION: 4731 40TH Ave SW, Seattle, WA 98116

PROJECT DESCRIPTION: Developing a 0.38 acres vacant lot to become a neighborhood open green space for public use. Improvements include but are not limited to grading, drainage and sewer connections, landscaping, planting, artificial play surface, lawn, concrete and permeable concrete paving, Right-of-way improvement, drinking fountain installation, lighting and irrigation systems. **Additive#1** is for pebble seating and Boardwalk system.

A/E ESTIMATE: **$**1,206,866.00 **Additive#1: $**404,360.00

PRE-BID SITE INSPECTION/MEETING:

There is an **OPTIONAL** pre-bid (site inspection/meeting) for this project. All those that wish to bid on the project are encouraged to attend. The pre-bid will be scheduled for **Tuesday, June 23rd at 1:30 pm.**

For purposes of the Inclusion Plan, this is considered a **Park Development** type of project with a Past Performance of **PERCENT 28**% WMBE utilization rates based on completed projects. For questions on the Inclusion Plan, please contact Miguel Beltran at Miguel.Beltran@seattle.gov or 206-684-4525. Back-up contact is Carmen Kucinski at Carmen.Kucinski@seattle.gov or 206-684-0188.

PAID SICK AND SAFE TIME: Bidders must understand the requirements of SMC 14.16 and RCW 49.46 and demonstrate compliance prior to award.

QUESTIONS: Deadline for Contractor questions regarding this **Parks and Recreation** project shall be submitted by close of business on **Wednesday, July 8TH, 2026,** to the **Parks** project manager via **Fred.Gu@seattle.gov**.

BID DOCUMENTS: Contract Documents, contacts and Bid Instructions are available at https://procurement.opengov.com/portal/seattle.

Addendum #1

Appendix B

Play Equipment Specification Sheet

Addendum 01

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

The information is provided for contractor use. Install all equipment per manufacturer instructions.

PRODUCTS

1.01 GENERAL

A. Site Specificity of Design – Equipment selection is based on specific program requirements, physical constraints within the site, and public input.

1. Play Value and Components
2. Component Style
3. Footprint
4. Color Availability
5. Apparent Mass, Geometry, and/or Visual Density
6. Adherence to 2010 ADA Standards for Accessible Design
7. Adherence to ICC A117.1-2017 Accessible and Usable Buildings and Facilities

1.02 PLAY EQUIPMENT

A. Compound Play Equipment – Earthscape Play supplied by Northwest Playground

1. Earthscape Play Log Pile 2.1 – White Oak (1)
2. Earthscape Play Log Pile 3.2 – White Oak (1)
3. Earthscape Play Stepper Cluster S2 (1)
4. Earthscape Play Wobble Board -Round Small (2)
5. Earthscape Play Bog Stilt (2)
6. Earthscape Play Notched Play Post (2)
7. Earthscape Play Log Stepper 150 (5)
8. Earthscape Play Log Stepper 450 (3)
9. Earthscape Play Log Stepper 300 (5)
10. Earthscape Play Log Stepper 600 (9)
11. Or, approved equals.

B. Per Drawing #L3.0, as manufactured by Earthscape Play, provided by Northwest Playground, 345 NW Dogwood St, Issaquah, WA 98027 (425) 313-9161. Color specification will be provided by the Landscape Architect, from standard manufacturer's options, upon product submittal.

1.03 FINISHES

A. Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electrostatic method to a thickness of three to five mils. Promptly after application of the powder, the coating shall be oven-cured at 400 degrees F. The

color(s) of the polyester coating shall be as selected by the Engineer from the manufacturer's standard and/or custom color selection charts.

B. Vinyl – The vinyl coating shall be oven-cured poly-vinyl chloride plastisol with a minimum thickness of 1/8 inch. The coating shall contain ultraviolet inhibitors and mold resistors. The color(s) of the vinyl coating shall be as selected by the Engineer from the manufacturer's standard and/or custom color selection charts.

C. Galvanized Finish – All components calling for a galvanized finish shall be hot-dipped galvanized to the manufacturer's standard after fabrication. All galvanized surfaces shall be free of burs, splinters, and sharp edges.

1.04 ADDITIONAL HARDWARE

A. Additional hardware shall be provided in sufficient quantity to complete assembly of the play equipment. All hardware shall be non-ferrous or if ferrous material is used shall be galvanized, electrostatic zinc plated or polyester powder coated in accordance with the approved manufacturer's standard. Provide the Engineer with any and all maintenance and repair supplies, installation manuals, tool kits, and Materials shipped with each product for the Owner’s inventory.

PART 2 - EXECUTION

2.01 EXAMINATION OF WORK AREA

A. Examine the areas and conditions under which Work of this Section will be performed. Verify safety zones of all equipment before setting posts in concrete footings. Do not proceed until conditions detrimental to proper and timely completion of the Work have been satisfactorily corrected and thus meet the manufacturer's instructions and the requirements as described above. Beginning Work constitutes acceptance of conditions as satisfactory.

2.02 INSTALLATION OF COMPOUND STRUCTURES AND INDEPENDENT ACTIVITIES

A. Conform strictly to manufacturer's instructions using all appropriate Materials, tools, and accessories as required. Use only experienced personnel trained in play equipment construction. The installer shall layout all equipment prior to construction to ensure compliance with safety zone clearances.

B. Provide all concrete footings as required to properly place the equipment components. It is the Contractor’s responsibility to adjust drainage pipe or other new utility locations to accommodate the equipment footings.

2.03 PROTECTION

A. During construction of the play equipment structures, provide PVC web fence material in sufficient quantities and wrap the structures to prevent public access onto

the equipment. Maintain the fencing wrap after completion of the play equipment and safety surfacing installation through Physical Completion of the project.

END OF SECTION

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED



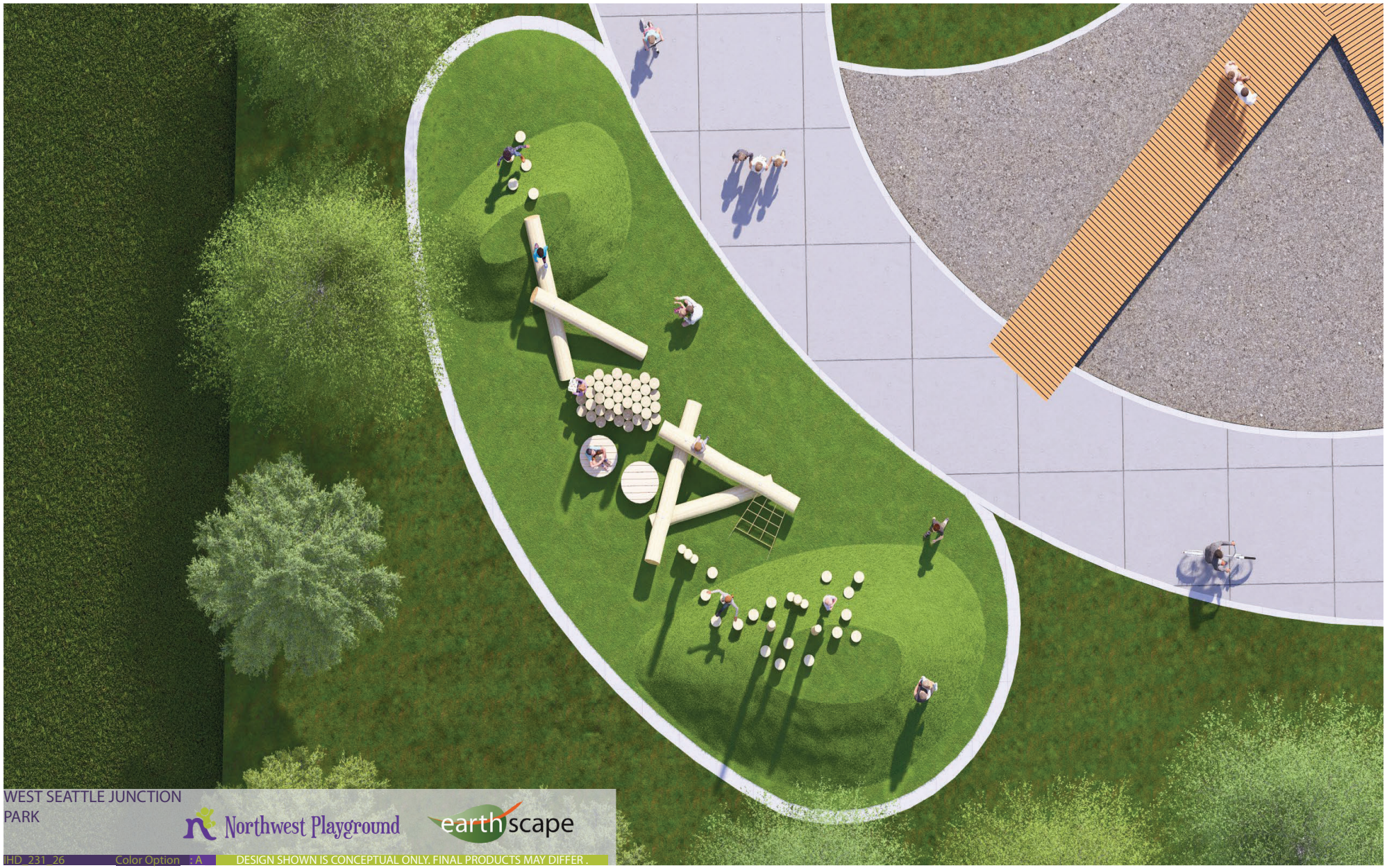
NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED



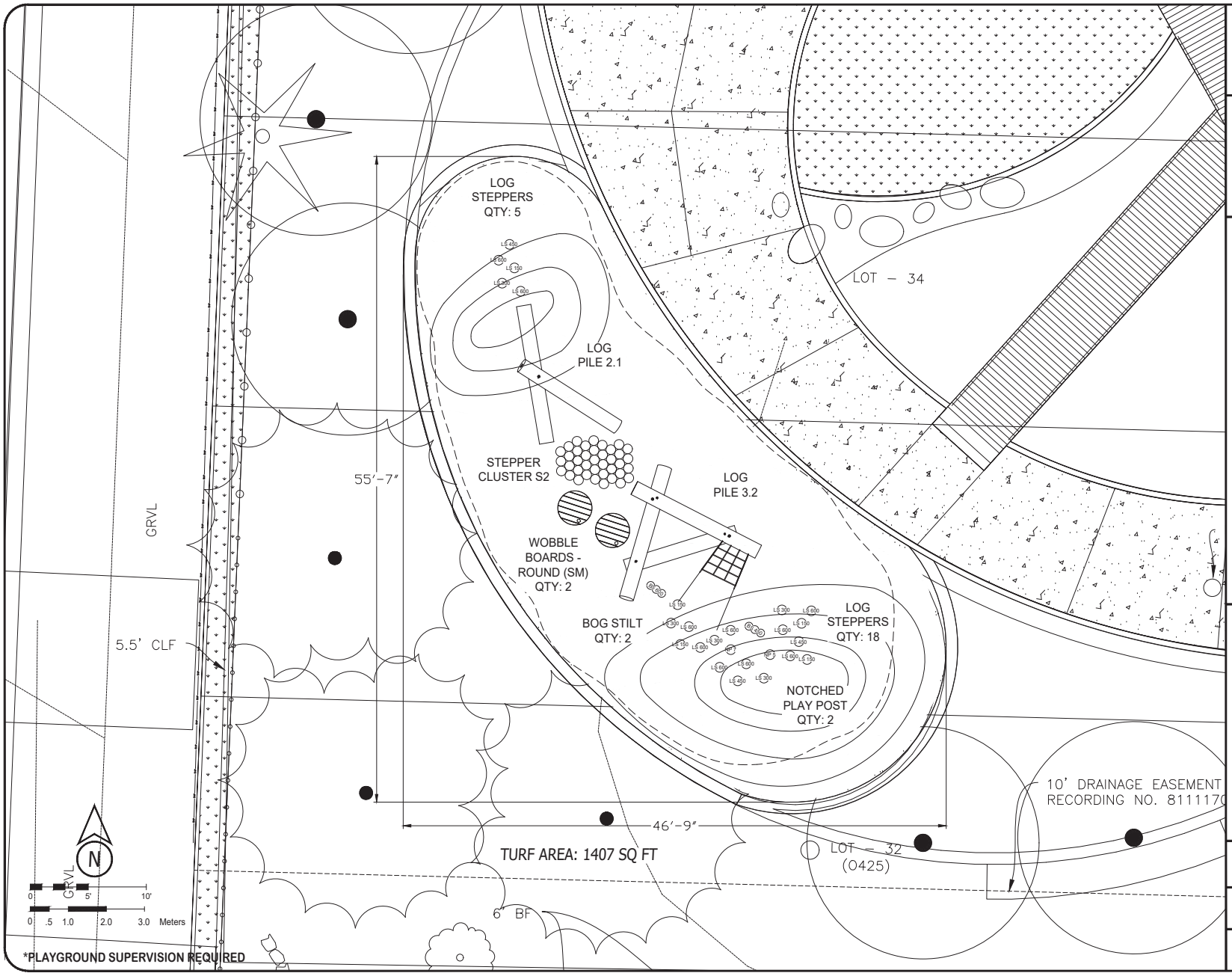
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PLAYWORLD

Northwest Playground · EQUIPMENT ·

earthscape

USE ZONE:

AREA: **1407 Sq. Ft.**

PERIMETER: **154'-6"**

FALL HEIGHT: **6 Ft.**

USER CAPACITY: **65+**

AGE GROUP: **5-12**

ADA SCHEDULE

	Total Elevated Play Activities: X	Total Ground-Level Play Activities: X	
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Types
Required	X	X	X
Provided	X	X	X

✓ ASTM F1487-21
✓ CPSC #325

WEST SEATTLE JUNCTION PARK

SITE PLAN

PROJECT NO:	SCALE:
IHD_231_26	1/8" = 1'-0"
DRAWN BY: KMS	Paper Size B
DATE: 15-Jun-26	

DESIGN FILE PATH: I:\WEST SEATTLE JUNCTION PARK\IHD_231_26\DESIGN

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED



PLAYWORLD

Northwest Playground
·EQUIPMENT·

FOOTING LEGEND

COMPONENT FOOTING (DETAIL 3)

SPIRAL SLIDE CENTER POST FOOTING (DETAIL1)

112″

SUPPORT POST FOOTING (DETAIL 1 or 4)
(112″ INDICATES POST LENGTH)

ZZCH 1850

CANTILEVER, "T" POST, AND COMPONENT POST FOOTING (DETAIL 2)
(ZZCH1850 INDICATES PART NUMBER)

144″ GZ

GROUND ZERO POST FOOTING (DETAIL 2)
(144″ INDICATES POST LENGTH)

WEST SEATTLE JUNCTION PARK

AB FOOTING PLAN

PROJECT NO:	SCALE:
IHD_231_26	1/8" = 1'-0"
DRAWN BY: KMS	Paper Size B
DATE: 15-Jun-26	

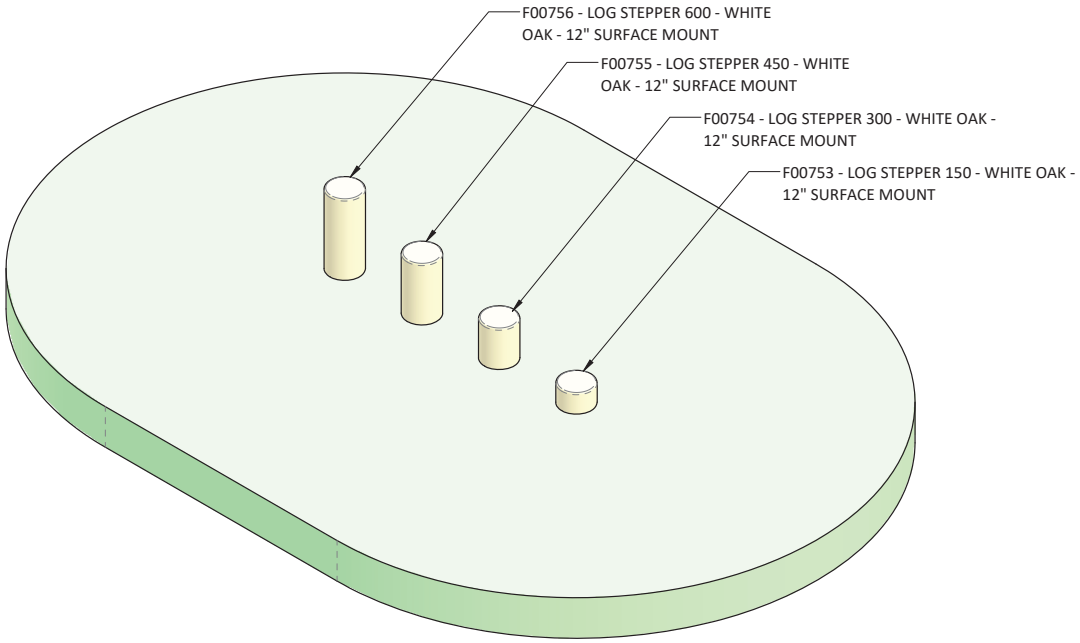
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NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



LOG STEPPERS - WHITE OAK - 12" SURFACE MOUNT

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

F00753 - LOG STEPPER 150 - WHITE OAK - 12" SURFACE MOUNT
F00754 - LOG STEPPER 300 - WHITE OAK - 12" SURFACE MOUNT
F00755 - LOG STEPPER 450 - WHITE OAK - 12" SURFACE MOUNT
F00756 - LOG STEPPER 600 - WHITE OAK - 12" SURFACE MOUNT

DATE DOCUMENT RELEASED 2025-04-07
DOCUMENT NUMBER: 1186059-R1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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CSA SPECIFICATIONS (FOR INSTALLATION AT CANADIAN SITES ONLY)

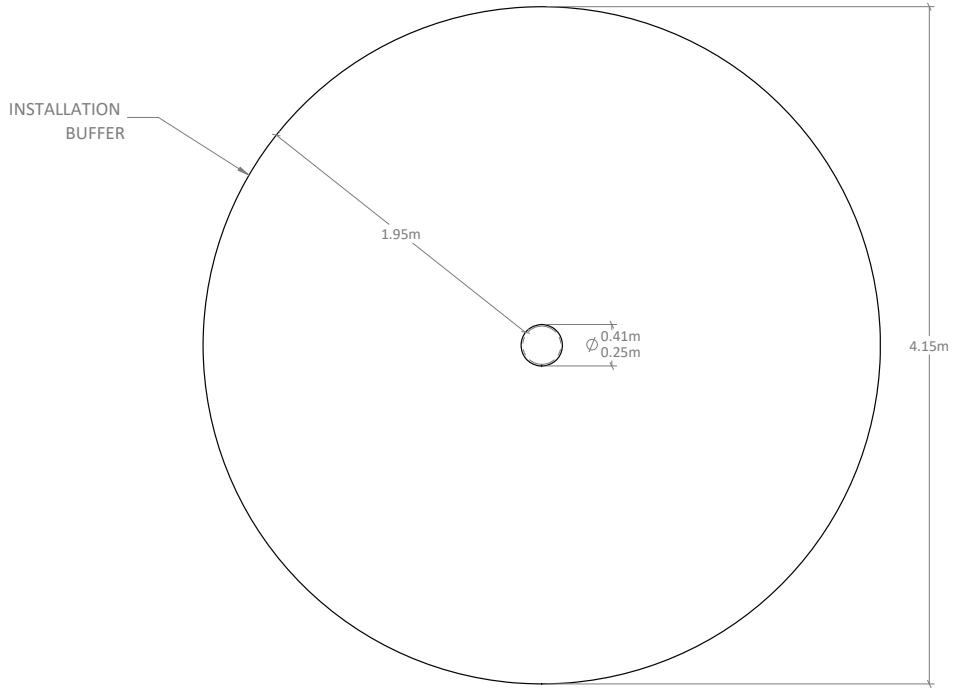
SPECIFICATIONS

AREA OF SURFACING= 13.5 m²

PRODUCT NUMBER	DESCRIPTION	INTENDED USER AGE GROUP	MAX HEIGHT / MAX DESIGNATED FALL HEIGHT	WEIGHT
F00753	LOG STEPPER 150	18m - 12y	0.15m	25kg
F00754	LOG STEPPER 300	18m - 12y	0.30m	35kg
F00755	LOG STEPPER 450	18m - 12y	0.45m	40kg
F00756	LOG STEPPER 600	5 - 12y	0.60m	50kg

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training. The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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ASTM SPECIFICATIONS (FOR INSTALLATION AT U.S. SITES ONLY)

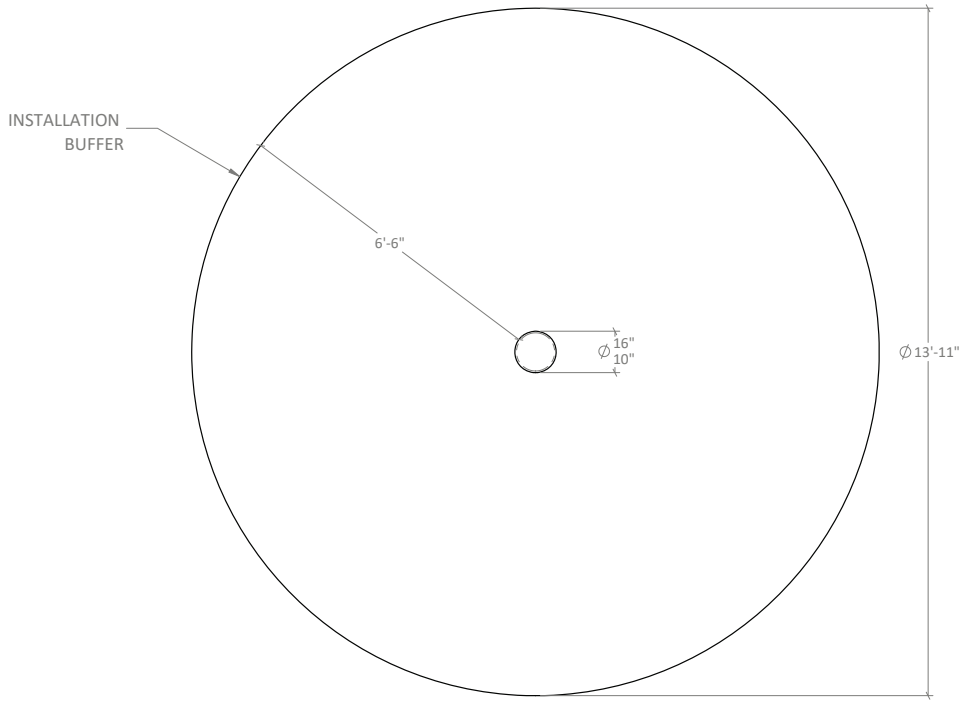
SPECIFICATIONS

AREA OF SURFACING= 150 ft²

PRODUCT NUMBER	DESCRIPTION	INTENDED USER AGE GROUP	MAX HEIGHT / MAX DESIGNATED FALL HEIGHT	WEIGHT
F00753	LOG STEPPER 150	2 - 12y	6"	55lbs
F00754	LOG STEPPER 300	2 - 12y	12"	80lbs
F00755	LOG STEPPER 450	2 - 12y	18"	90lbs
F00756	LOG STEPPER 600	5 - 12y	24"	110lbs

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training. The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.



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SETTING UP FOR SUCCESS

PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.

This product might be shipped bundled with other parts or in crates. Review the separate project "SHIPPING PLAN" document so you can plan for truck access and equipment required for unloading.

If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both metres and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

- None

TOOLS THE INSTALLER NEEDS TO SUPPLY

- High torque drill
- Hammer drill
- Socket set up to 1"
- 1/2" ratcheting socket wrench
- Concrete drill bit, 1/2" x 8"
- Angle grinder (with course 24 grit sanding disks and metal cut off disks)
- Transit or Laser Level

EQUIPMENT THE INSTALLER NEEDS TO SUPPLY

- No special equipment required.

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 2
Typical total person-hours to install: 6 + concrete cure time

Time breakdown:
- 2 hours x 2 people for excavation
- 1 hours x 2 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

- Concrete and reinforcing steel as specified in this package

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

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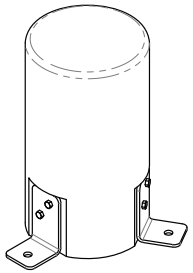
SUPPLIED PARTS

MAKE SURE YOU HAVE ALL THE PARTS

Examine the equipment and ensure you have all the required parts listed in the table below.

Your order may include multiple steppers or a combination of the items below. Please note, the height of F00701 should only be used for the 5-12 year age group.

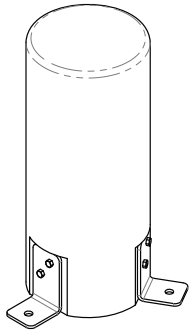
INSTALLATION HARDWARE NEEDED FOR EACH INDIVIDUAL STEPPER				
PART IMAGE	**ITEM NO.**	**PART NO.**	**DESCRIPTION**	**QTY.**
	1	H16762	TITEN HD 1/2" x 5" CONC SCREW MECH GALV	3
ONE STEPPER ONLY INCLUDES ONE OF THE FOLLOW 4 SIZES. SEE SITE PLAN AND ORDER TO CONFIRM WHAT SIZES HAVE BEEN PURCHASED AND WHERE THEY NEED TO BE PLACED ON SITE.				
For F00753				
SEE IMAGE THIS SHEET	2A	A00078	LOG STEPPER 460mm - WHITE OAK - SURFACE MOUNT	1
For F00754				
SEE IMAGE THIS SHEET	2B	A00079	LOG STEPPER 610mm - WHITE OAK - SURFACE MOUNT	1
For F00755				
SEE IMAGE THIS SHEET	2C	A00080	LOG STEPPER 760mm - WHITE OAK - SURFACE MOUNT	1
For F00756				
SEE IMAGE THIS SHEET	2D	A00081	LOG STEPPER 910mm - WHITE OAK - SURFACE MOUNT	1



A00078
LOG STEPPER 460mm - WHITE OAK - SURFACE MOUNT

FOR F00753

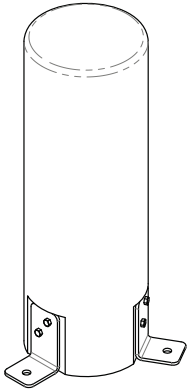
OR



A00079
LOG STEPPER 610mm - WHITE OAK - SURFACE MOUNT

FOR F00754

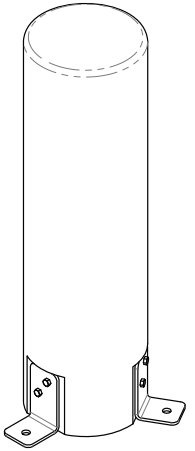
OR



A00080
LOG STEPPER 760mm - WHITE OAK - SURFACE MOUNT

FOR F00755

OR



A00081
LOG STEPPER 910mm - WHITE OAK - SURFACE MOUNT

FOR F00756

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

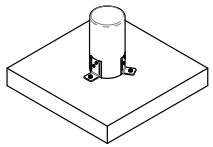
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FINISHED PRODUCT

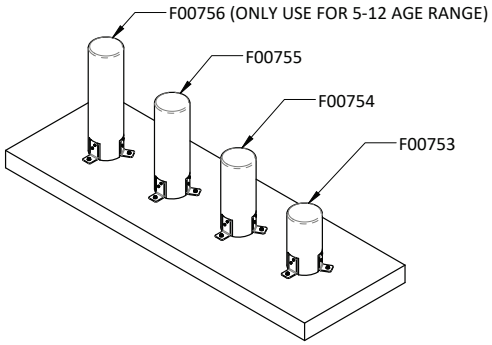
WHAT THE FINISHED PRODUCT LOOKS LIKE

The log steppers shown on this sheet illustrate the four stepper heights available. One or more Steppers may be included in the playground design. Review the overall design layout by others to understand the location of each stepper.

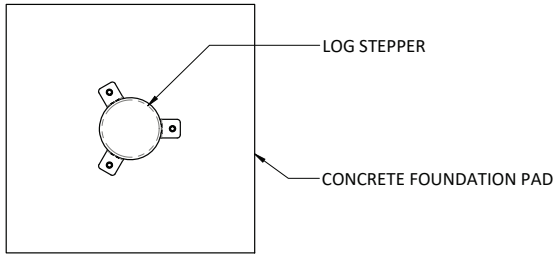
The location and configuration of the steppers is not within the scope of these instructions and should be provided by others.



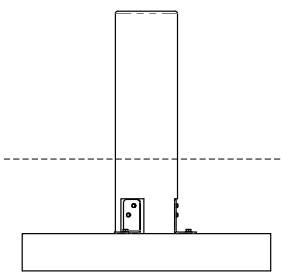
ISOMETRIC VIEW - SINGLE STEPPERS



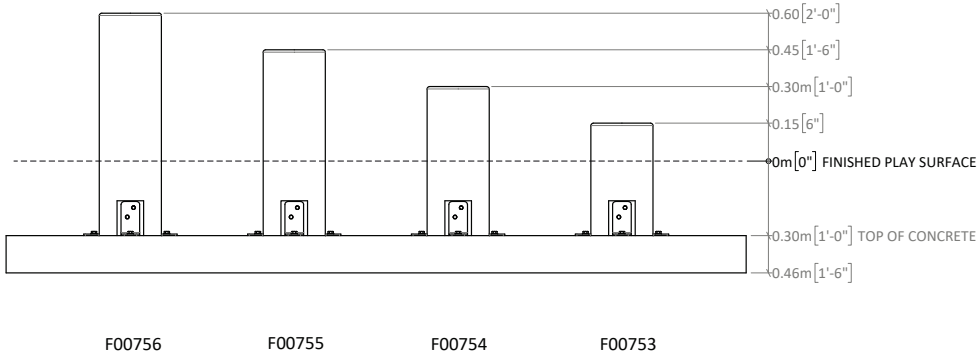
ISOMETRIC VIEW - MULTIPLE STEPPERS



PLAN VIEW



LEFT SIDE VIEW



FRONT VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LAYOUT PLAY EQUIPMENT

STEP 1 - LAYOUT STEPPER(S)

Layout and mark the center of each steppers as per the overall site plan.

The location of the steppers relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished play surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

TOP OF CONCRETE IS 305mm [12"] BELOW FINISHED PLAY SURFACE.

STEP 2 - LAYOUT CONCRETE PAD

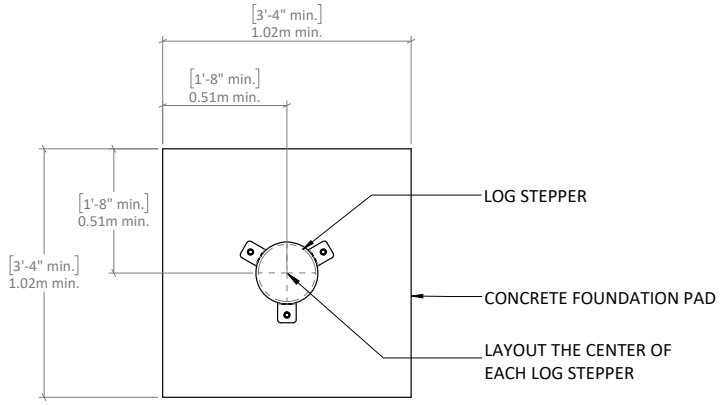
Layout and mark the limits for the concrete foundation pad based on the offset from the center points of the steppers.

For a single stepper the minimum size is shown in the Plan View - Single Stepper this sheet.

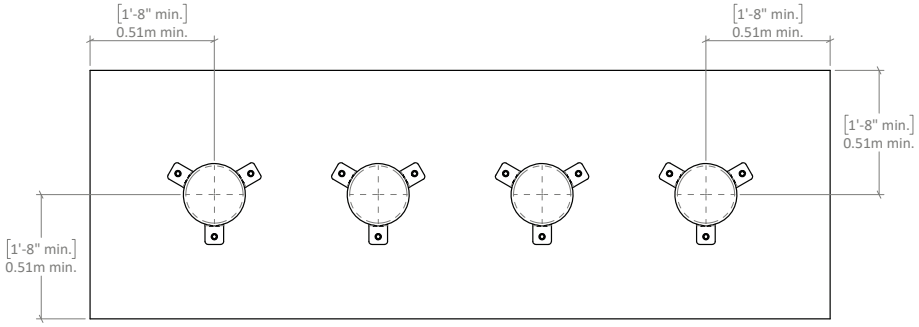
Where steppers are used near one another, one continuous pad will be required. The concrete pad must maintain the minimum distance shown from the centre of all steppers as shown in the sample Plan View - Multiple Steppers this sheet.

The foundation size applies to all 4 heights of steppers.

The detail provided in these instructions has been developed assuming typical soil conditions specified in general notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a registered engineer.



PLAN VIEW - SINGLE STEPPER



PLAN VIEW - MULTIPLE STEPPERS

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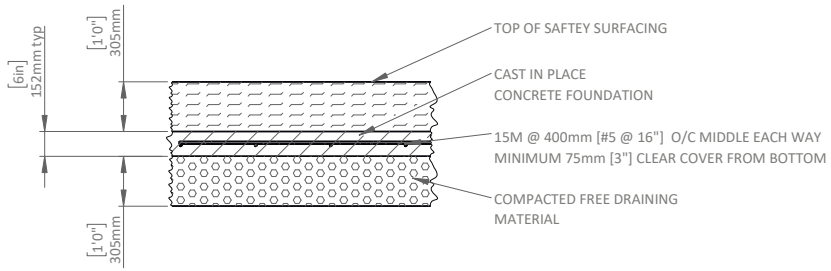
POUR CONCRETE AND SECURE PLAY EQUIPMENT

STEP 3 - EXCAVATE, FORM AND POUR CONCRETE PAD

Excavate, form and pour the foundation pad as per Concrete Foundation Detail on this sheet.

ALLOW CONCRETE TO CURE BEFORE PROCEEDING TO NEXT STEP.

FOUNDATION NOTES:
1. SEE "GENERAL NOTES" SHEET FOR GENERAL NOTES.
2. TOP OF CONCRETE TO BE SET AT 305mm [12"] BELOW TOP OF SURFACING UNO. DEPTH OF SAFETY SURFACING TO BE DETERMINED BY THE MANUFACTURER OF THE SAFETY SURFACING. WHERE NECESSARY, FREE DRAINING GRANULAR BACKFILL TO BE INSTALLED BELOW SAFETY SURFACING TO MEET TOTAL COVER REQUIRED.
3. SLAB TO BEAR ON MATERIAL BELOW THE FROST DEPTH, OR ALTERNATIVELY ON 305mm [12"] OF FREE DRAINING AGGREGATE, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.

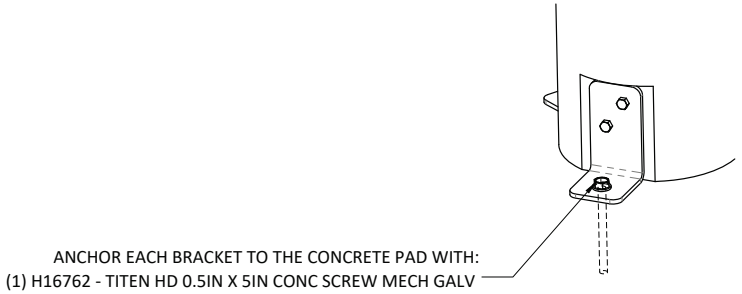


CONCRETE FOUNDATION DETAIL SD-001D

STEP 4 - SECURE LOG STEPPER TO FOUNDATION

Position the centre of the stepper as per the site plan.

Anchor the metal base bracket to the concrete pad as per Detail A



ANCHOR EACH BRACKET TO THE CONCRETE PAD WITH:
(1) H16762 - TITEN HD 0.5IN X 5IN CONC SCREW MECH GALV
3 PER STEPPER

DETAIL A

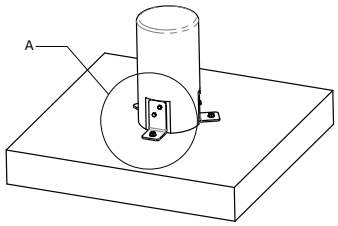


FIGURE 1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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GENERAL NOTES

FOR CANADIAN INSTALLATION SITES USE THESE NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY CSA Z614. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN m UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/CSA-Z614 (MOST RECENT EDITION) "CHILDREN'S PLAYSPACES AND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

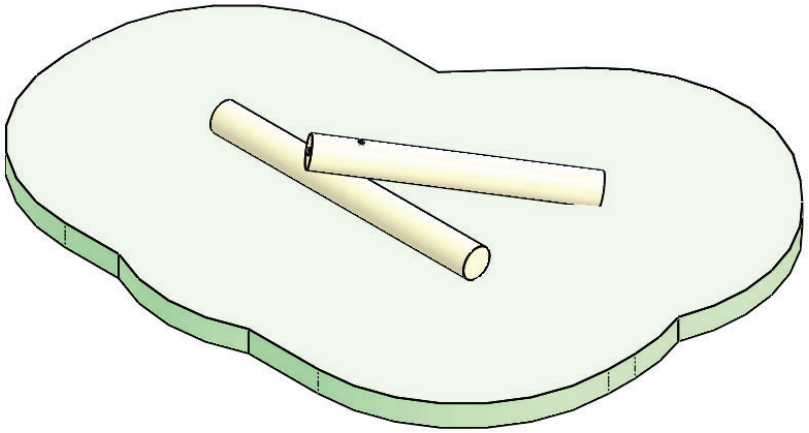
1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

F00683 -
LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

DATE DOCUMENT RELEASED 2024-09-24
DOCUMENT NUMBER: 1159514-R2

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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CSA SPECIFICATIONS (FOR INSTALLATIONS AT CANADIAN SITES ONLY)

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

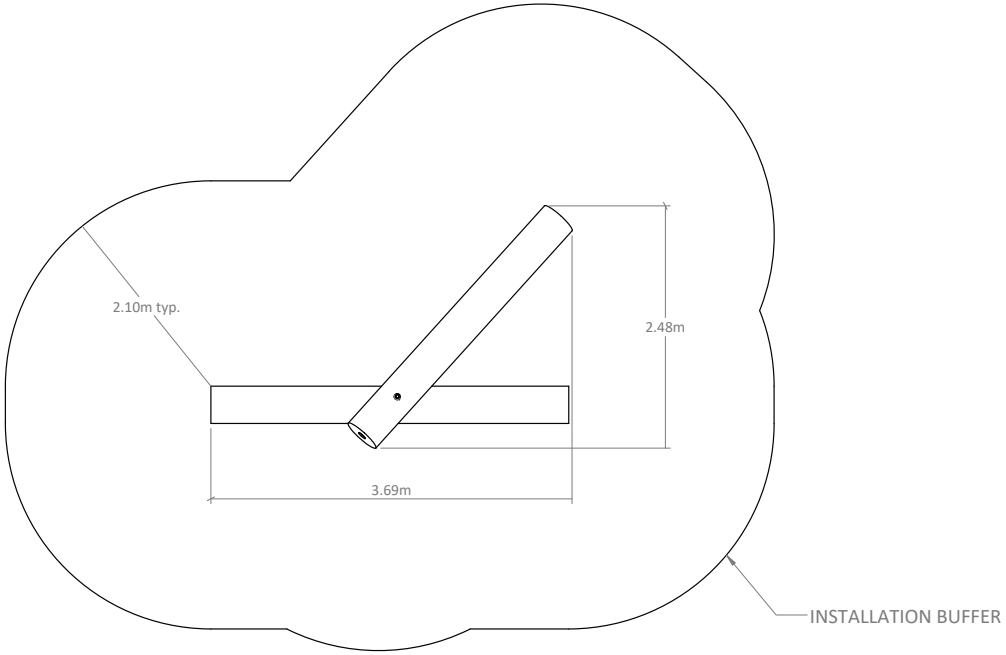
SPECIFICATIONS

INTENDED USER AGE GROUP: 18 m to 5 y
MAXIMUM HEIGHT OF STRUCTURE: 0.86 m
MAXIMUM DESIGNATED FALL HEIGHT: 0.86 m
AREA OF SURFACING: 39.4 m²
WEIGHT: 784 kg

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.

The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.



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ASTM SPECIFICATIONS (FOR INSTALLATIONS AT U.S. SITES ONLY)

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

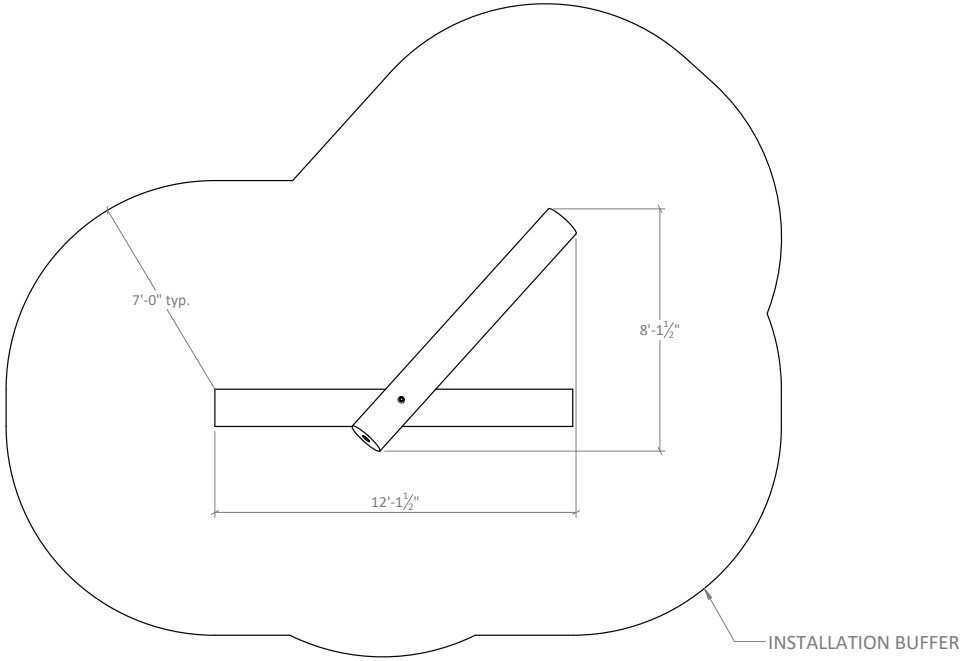
SPECIFICATIONS

INTENDED USER AGE GROUP: 2 to 5 y
MAXIMUM HEIGHT OF STRUCTURE: 2'-10"
MAXIMUM DESIGNATED FALL HEIGHT: 2'-10"
AREA OF SURFACING: 424 ft²
WEIGHT: 1728 lb

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.

The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.



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SETTING UP FOR SUCCESS

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.

This product might be shipped bundled with other parts or in crates. Review the separate project "SHIPPING PLAN" document so you can plan for truck access and equipment required for unloading.

If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both metres and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

- Counterbore drill bit, 2-5/8" dia

TOOLS THE INSTALLER NEEDS TO SUPPLY

- Hammer
- High torque drill
- Hammer drill
- 1/2" impact driver
- 3/4" impact socket
- 15/16" socket
- 1-5/16" socket (2x)
- 1/2" ratcheting socket wrench
- T40 drive bit
- Wood auger drill bit, 1" x 18"and 1" x 24"
- Wood drill bit, 3/16" x 6"
- Concrete drill bit, 1/2" x 8"
- Angle grinder (with course 24 grit sanding disks and metal cut off disks)
- Transit or Laser Level
- Rigging and lifting straps
- 1/2" Ratchet or breaker bar

EQUIPMENT THE INSTALLER NEEDS TO SUPPLY

- Machine to lift and position heaviest element, 12' log, approximately 404 kg [892 lbs]

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 3
Typical total person-hours to install: 24 + concrete cure time

Time breakdown:
- 4 hours x 3 people for excavation and pouring concrete
- Time for concrete cure
- 4 hours x 2 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

- Threadmate threadlocker Vibra-Tite VC-3 (or equal)
- Concrete and reinforcing steel as specified in this package

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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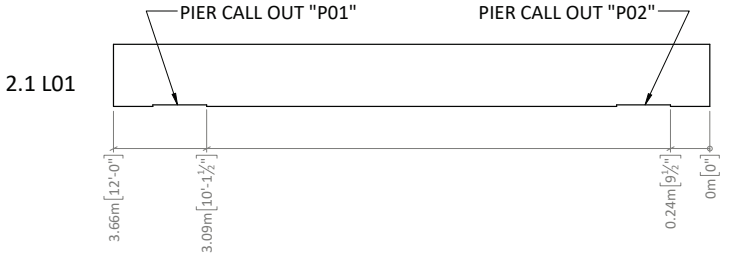
SUPPLIED PARTS

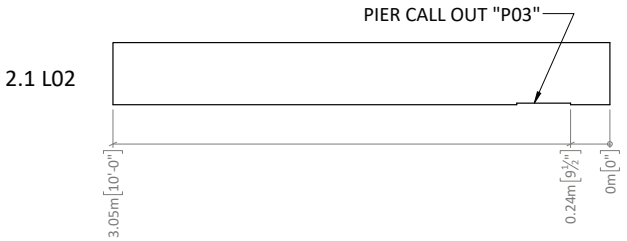
LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

MAKE SURE YOU HAVE ALL THE PARTS

Examine the equipment and ensure you have all the required parts listed in the table below.

PART IMAGE	ITEM NO.	PART NO.	DESCRIPTION	QTY.
SEE IMAGE THIS SHEET	1	2.1 L01	WHITE OAK LOG 12' PROCESSED	1
SEE IMAGE THIS SHEET	2	2.1 L02	WHITE OAK LOG 10' PROCESSED	1
	3	B00252	BRACKET PIVOTING HINGE PLATE HDG	3
	4	B00256-12	BRACKET PIVOTING BASE - ANGLED MOUNT - HDG 12IN	3
	5	H11209	HEX CAP SCREW 5/8-11 X 5 1/2 HDG	3
	6	H16685	WOOD SCREW, WASHER HEAD, M8X100, SS	14*
	7	H16762	TITEN HD 1/2" X 5" CONC SCREW MECH GALV	12
	8	H30087	WASHER NYLON 1/2" X 1"	12
	9	H30094	WASHER 5/8" X 1-1/2" HDG	18
	10	H40050	HEX NUT 5/8-11 HDG	3
	11	H50028	LOG PILE CONNECTION KIT	1
NO IMAGE PROVIDED	12	T00156	LOG JAM COUNTERSINK SET	1





IMAGES OF FASTENERS IN THIS TABLE ARE REPRESENTATIONAL TO HELP IDENTIFY PARTS.
* INCLUDES 2 EXTRA PIECES

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FINISHED PRODUCT

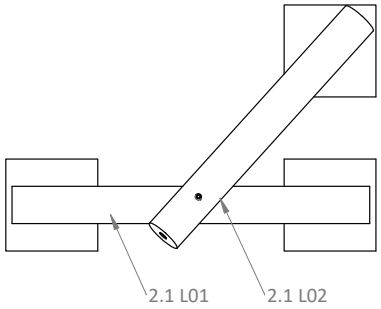
LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

WHAT THE FINISHED PRODUCT LOOKS LIKE

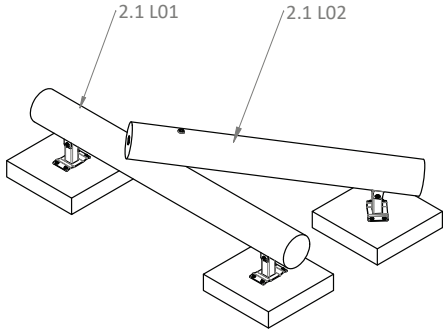
2.1 L01-L02 are logs supplied by Earthscape, cut to length, sanded smooth, and flats added to recieve pivot brackets.

Poured-in-place concrete pads used to anchor the log pivot base brackets. The concrete pads are to be provided by the installer.

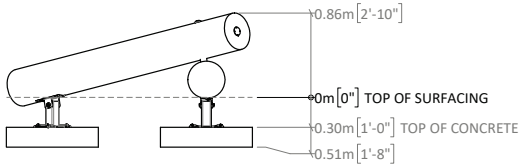
Dimensions shown are approximate. Actual dimensions after installation may differ due to varying diameters and irregularities of the logs.



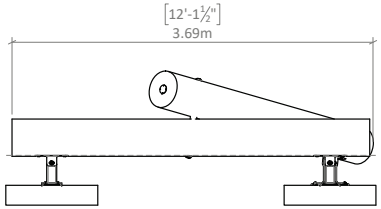
PLAN VIEW



ISOMETRIC VIEW



LEFT SIDE VIEW



FRONT VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE BRACKETS

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

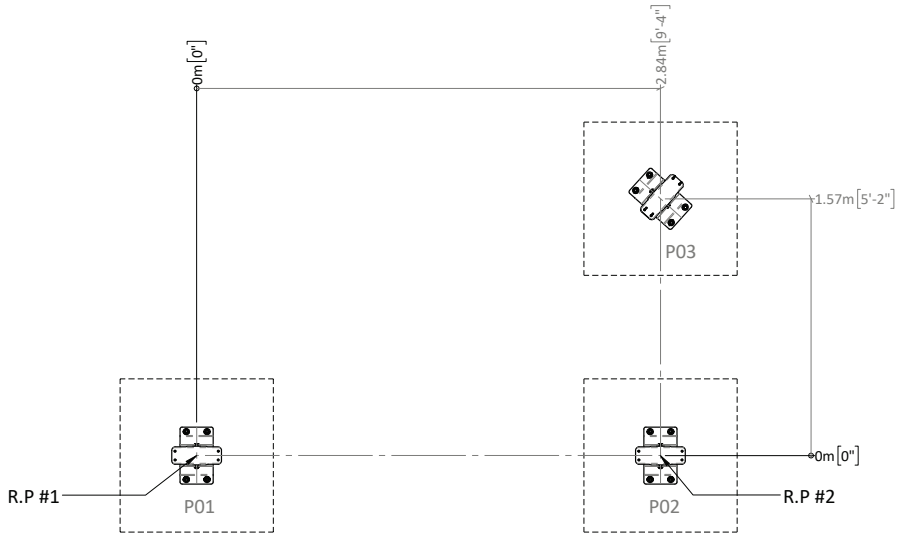
STEP 1 - LOCATING THE EQUIPMENT & LOG BRACKETS

Layout and mark the location of the 2 equipment Reference Points on your site. The location of these points relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished play surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

Layout and mark centres of other the other brackets based off the 2 Reference Points. Refer to Bracket Plan View and bracket Locations Table on this sheet for details.

BRACKET LOCATION TABLE		
BRACKET LABEL	**FROM R.P. #1**	**FROM R.P. #2**
P01	0	[9'-4"] 2.84m
P02	[9'-4"] 2.84m	0
P03	[10'-8"] 3.25m	[5'-2"] 1.57m



BRACKET PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE FOUNDATIONS

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

STEP 2 - EXCAVATE FOR CONCRETE

Excavate and prepare for depth and dimensions of pads as indicated in the details this sheet.

The foundation detail provided in these instructions has been developed assuming typical soil conditions specified in general notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a registered engineer.

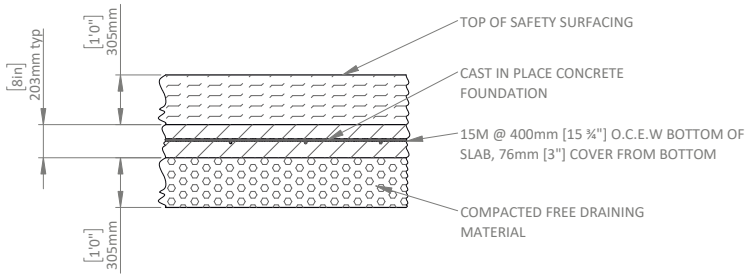
STEP 3 - POUR CONCRETE PADS

Pour concrete pads. Refer to "General Notes" sheet for concrete strength requirements.

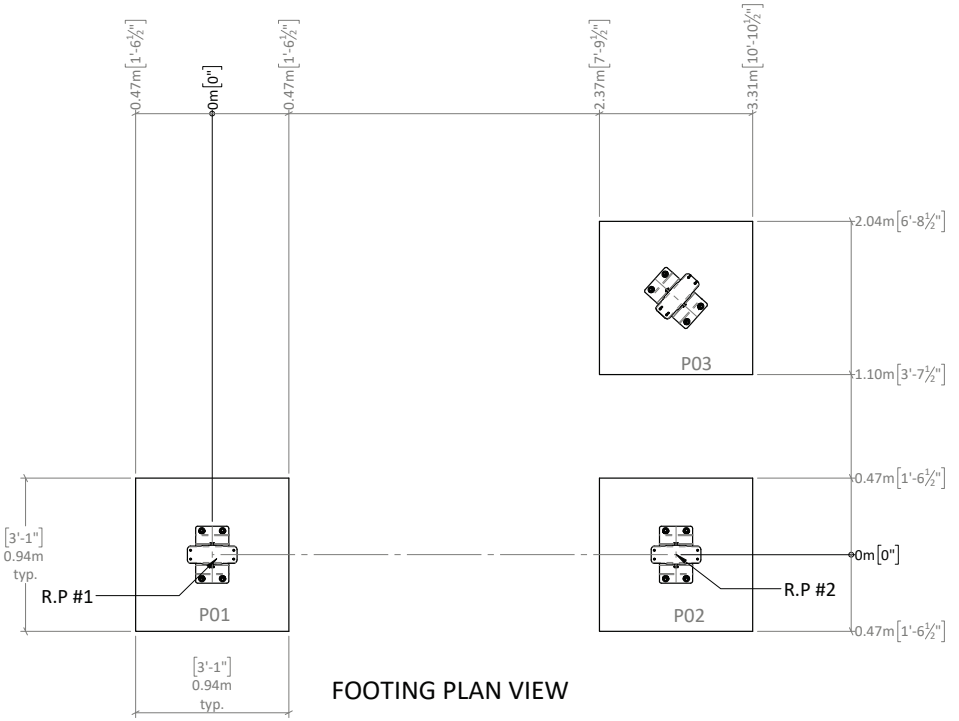
Ensure top of concrete is 305mm [12"] below finished play surface. Allow concrete to cure prior to proceeding to steps 5-8.

FOUNDATION NOTES:

1. SEE "GENERAL NOTES" SHEET FOR GENERAL NOTES.
2. TOP OF CONCRETE TO BE SET AT 300mm [12"] BELOW TOP OF SURFACING UNO.
3. SLAB TO BEAR ON MATERIAL BELOW THE FROST DEPTH, OR ALTERNATIVELY ON 300mm [12"] OF FREE DRAINING AGGREGATE, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.



CONCRETE FOUNDATION DETAIL SD-001E



FOOTING PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALL PIVOT BRACKETS TO LOGS

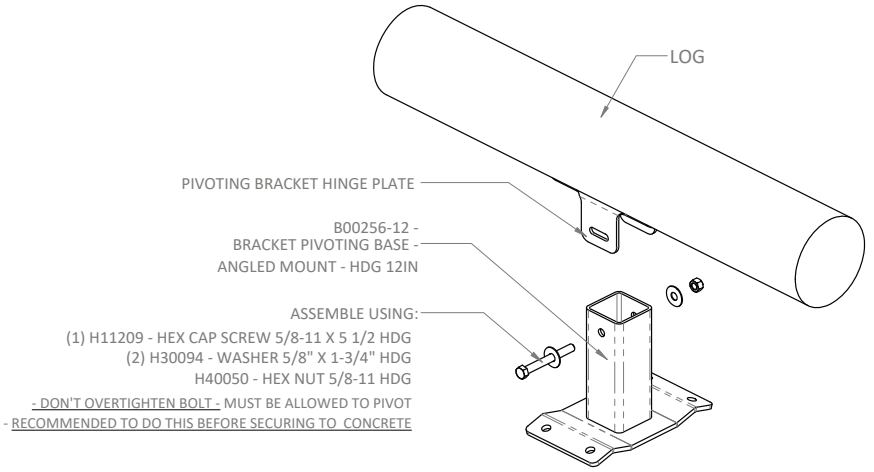
LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

STEP 4 - SECURE PIVOTING HINGE PLATES TO LOGS

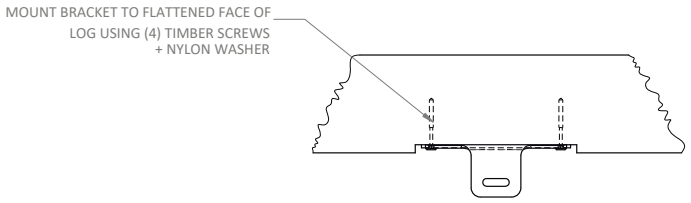
Secure the Bracket Pivoting Hinge Plate, to the pre-fabricated flat spots on the bottom of the logs are per the detail on this sheet.

STEP 5 - ASSEMBLE PIVOT BRACKET BASE TO HINGE PLATES

Assemble the Pivot Bracket Base to Pivoting Hinge Plates as per view on this sheet. Ensure nut is not overtightened. Top plate must be able to pivot.



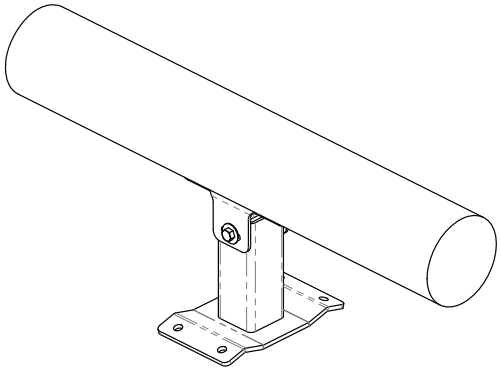
EXPLODED VIEW



HARDWARE REFERENCE LIST (PER CONNECTION)

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	B00252	BRACKET PIVOTING HINGE PLATE HDG	1
2	H16685	ASSY SK A2 8mm X 100mm SS	4
3	H30087	WASHER NYLON 1/2" X 1"	4

BRACKET PIVOTING HINGE PLATE DETAIL



ASSEMBLED VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE AND INSTALL LOGS - COURSE 1 OF 2

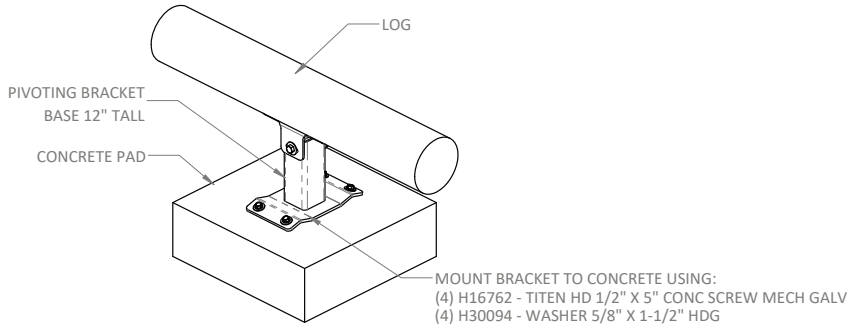
LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

STEP 6 - LOCATE AND SECURE LOGS "2.1 L01"

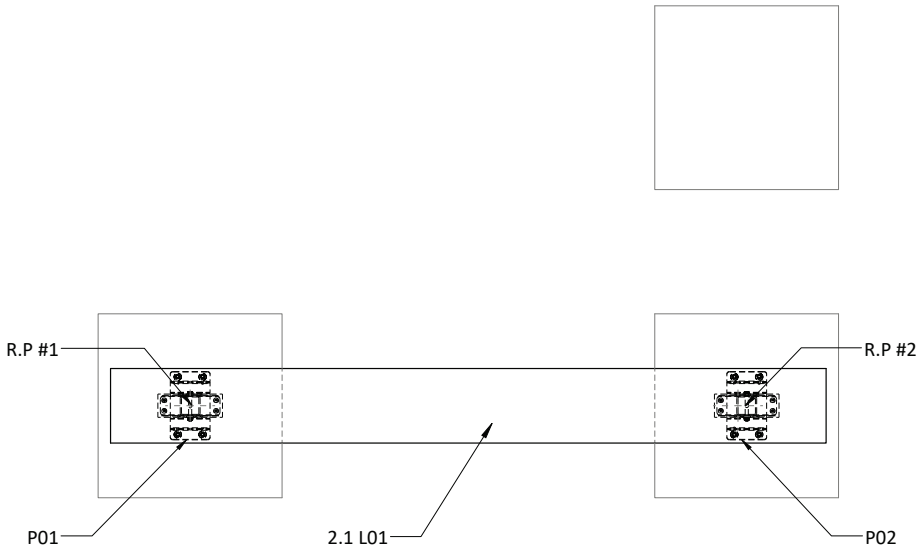
Once pads have cured, position log "2.1 L01", using the bracket labels affixed to the hinge plates to match the associated bracket position (e.g. "P01"). Position the logs so that the pivot bracket base is as centered as possible on bracket position (see sheet 7 for bracket postions)

Secure (2) pivot bracket bases to the pads as per detail on this sheet.

Ensure anchor screws are a minimum 4" away from the edge of the concrete.



PIVOT BRACKET TO CONCRETE CONNECTION - typ.



LOG LAYOUT - COURSE 1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE AND INSTALL LOGS - COURSE 2 OF 2

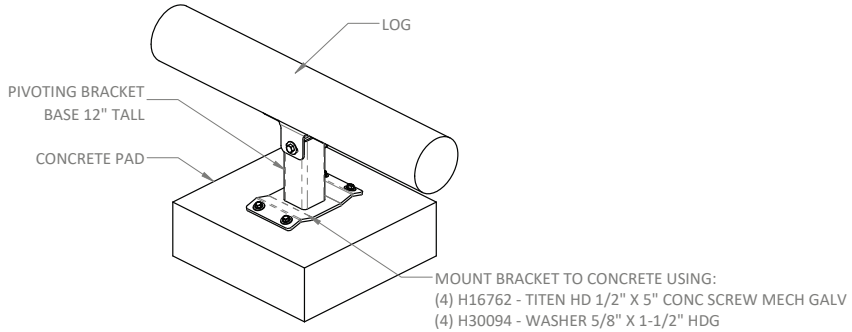
STEP 7 - LOCATE AND SECURE LOGS "2.1 L02"

Position log "2.1 L02", using the bracket label affixed to the hinge plate to match the associated bracket position (e.g. "P03"). Position the log so that the pivot bracket base is as centered as possible on the bracket position (see sheet 7 for bracket postions).

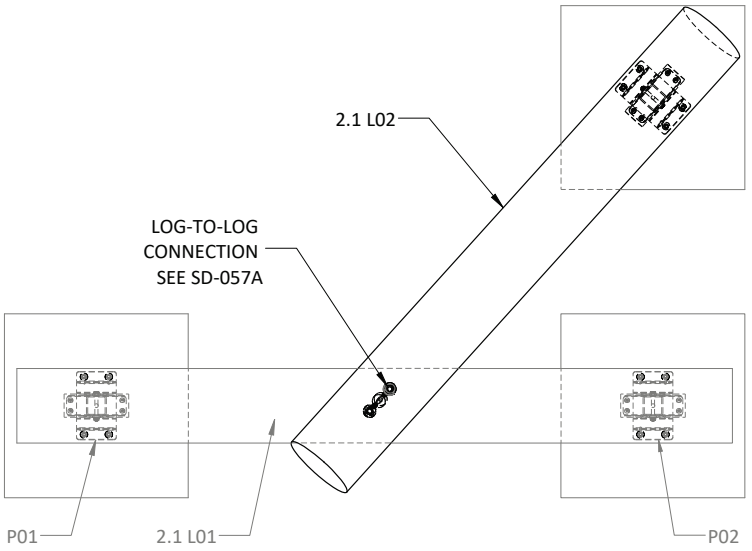
Position high end of log "2.1 L02" on top of log "2.1 L01" approximately as shown (log shapes and lengths may differ slightly due to irregularities). Connect logs per detail SD-057A at back of this package.

Secure (1) pivot bracket base to the pad as per detail on this sheet.

Ensure anchor screws are a minimum 4" away from the edge of the concrete.



PIVOT BRACKET TO CONCRETE CONNECTION - typ.



LOG LAYOUT - COURSE 2

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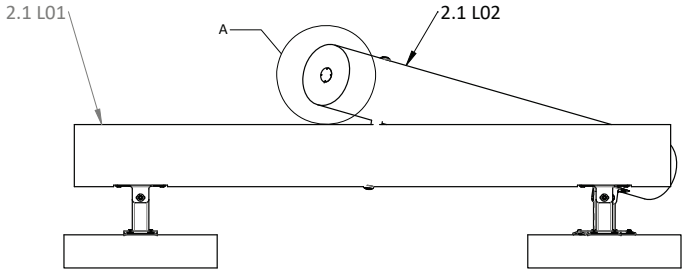
AGE LABEL

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

STEP 8 - AGE LABEL LOCATION (IF REQUIRED)

If an age label is required it will be provided with this product.

Position age label in the center of the log as shown and follow the instructions provided in the age label kit to secure in place.



FRONT VIEW



DETAIL A

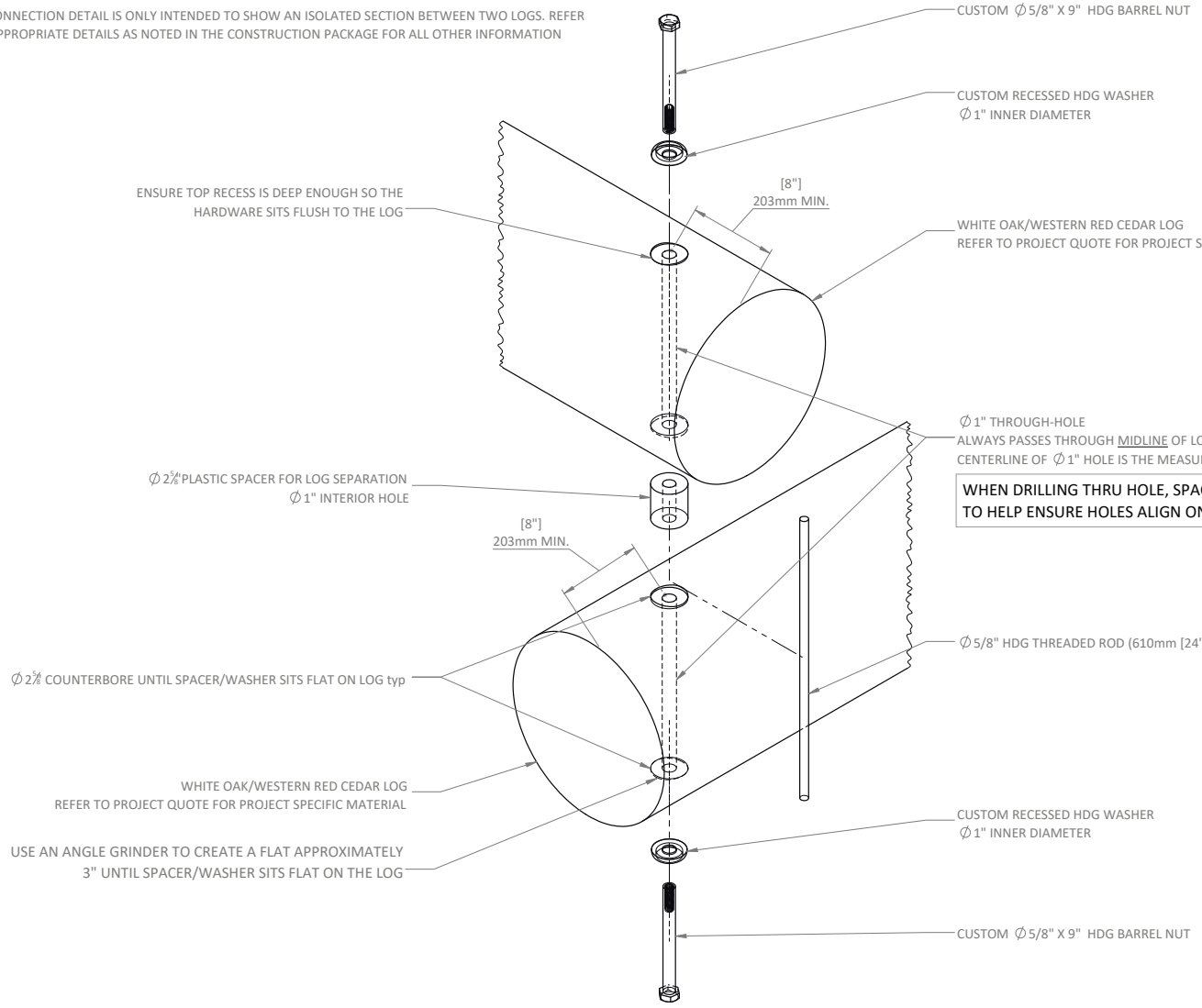
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SD-057A

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

NOTES:
1. THIS CONNECTION DETAIL IS ONLY INTENDED TO SHOW AN ISOLATED SECTION BETWEEN TWO LOGS. REFER TO THE APPROPRIATE DETAILS AS NOTED IN THE CONSTRUCTION PACKAGE FOR ALL OTHER INFORMATION



WHEN DRILLING THRU HOLE, SPACE LOGS APART WITH SCRAP 2X MATERIAL TO HELP ENSURE HOLES ALIGN ONCE PLASTIC SPACER INSTALLED

H50028 KIT BOM

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	H50007	LOG JAM NYLON SPACER	1
2	H50003	LOG JAM BARREL NUT 9" HDG	2
3	H50001	LOG JAM WASHER 1"	2
4	H20032	THREADED STUD 5/8"-11 X 24" HDG	1

OVERSIZED LOG-TO-LOG CONNECTION

DATE DOCUMENT RELEASED 2024-09-24
DOCUMENT NUMBER: 1159514 - R2

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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GENERAL NOTES

LOG PILE 2.1 - 305mm [12IN] SURFACING - PAD MOUNT

FOR CANADIAN INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY CSA Z614. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN METRES (m) UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/CSA-Z614 (MOST RECENT EDITION) "CHILDREN'S PLAYSPACES AND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1/2
2. ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH CAN/CSA A23.1/2 INCLUDING FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER.
3. REINFORCING STEEL SHALL COMPLY WITH CAN/CSA G40.18
4. DO NOT ADD WATER TO CONCRETE ONSITE.
5. ENSURE A MINIMUM COVER OF 75mm TO THE GROUND IN ALL BELOW GRADE CONCRETE.
6. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
7. CONCRETE REINFORCING TO DEFORMED MINIMUM YIELD STRENGTH OF 400 MPa
8. PIT RUN GRAVEL WILL NOT BE ACCEPTABLE.
9. ALL REINFORCING CHAIRS SHALL BE PLASTIC
10. ALL FORM OIL TO BE NON-STAINING MINERAL OIL, FREE OF KEROSENE.
11. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A1064.
12. VIBRATE ALL CONCRETE TO ENSURE THAT CONCRETE IS FREE FROM VOIDS AND OTHER DEFECTS.
13. MOIST CURE ALL CONCRETE 7 DAYS.
14. IN HOT OR COLD WEATHER CONDITIONS TAKE ADDITIONAL PRECAUTIONS AS PER CAN/CSA A23.1/2.
15. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN FEET-INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

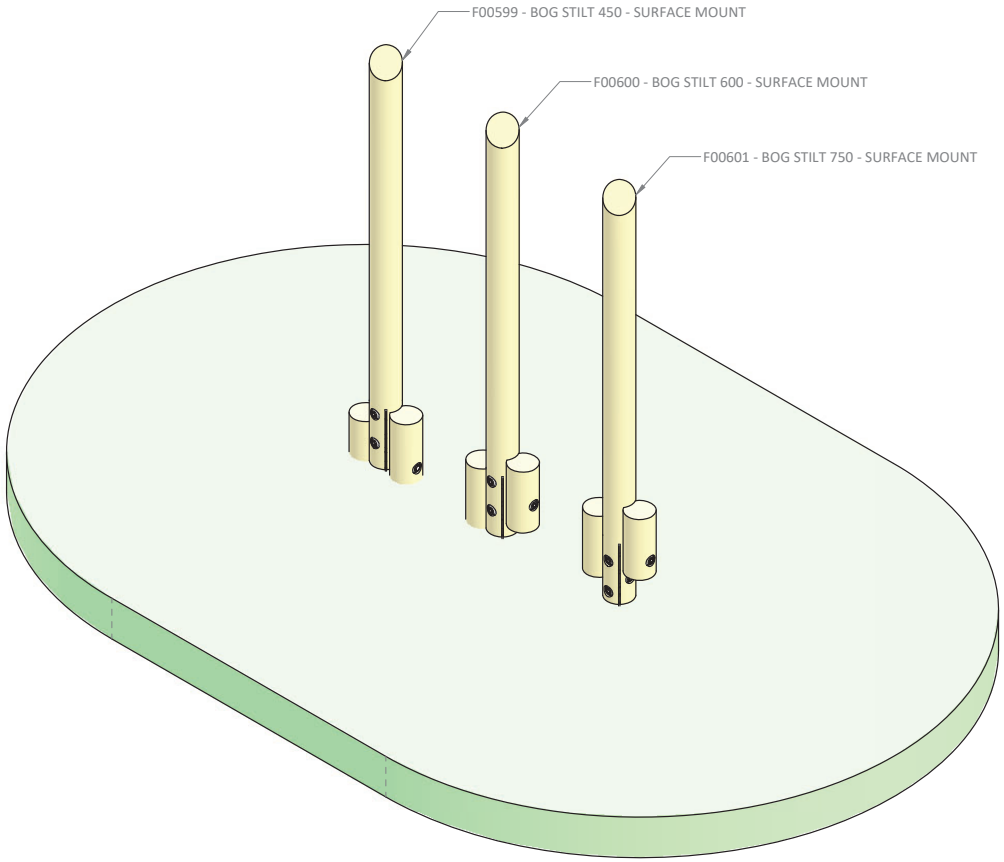
1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI-301
2. ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH ASTM A615 AND ACI-301 INCLUDING FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER.
3. REINFORCING STEEL SHALL COMPLY WITH ASTM A615
4. DO NOT ADD WATER TO CONCRETE ONSITE.
5. ENSURE A MINIMUM COVER OF 3" TO THE GROUND IN ALL BELOW GRADE CONCRETE.
6. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
7. CONCRETE REINFORCING TO DEFORMED MINIMUM YIELD STRENGTH OF 58000 PSI
8. PIT RUN GRAVEL WILL NOT BE ACCEPTABLE.
9. ALL REINFORCING CHAIRS SHALL BE PLASTIC
10. ALL FORM OIL TO BE NON-STAINING MINERAL OIL, FREE OF KEROSENE.
11. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A1064.
12. VIBRATE ALL CONCRETE TO ENSURE THAT CONCRETE IS FREE FROM VOIDS AND OTHER DEFECTS.
13. MOIST CURE ALL CONCRETE 7 DAYS.
14. IN HOT OR COLD WEATHER CONDITIONS TAKE ADDITIONAL PRECAUTIONS AS PER ACI 305 OR 306 RESPECTIVELY.
15. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



BOG STILTS - SURFACE MOUNT

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

F00599 - BOG STILT 450 - SURFACE MOUNT
F00600 - BOG STILT 600 - SURFACE MOUNT
F00601 - BOG STILT 750 - SURFACE MOUNT

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

DATE DOCUMENT RELEASED 2024-01-10
DOCUMENT NUMBER: 1135270-R4

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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CSA SPECIFICATIONS (FOR INSTALLATIONS AT CANADIAN SITES ONLY)

BOG STILTS - SURFACE MOUNT

SPECIFICATIONS

INTENDED USER AGE GROUP:
- F00599 - BOG STILT 450 = 18m - 5 y
- F00600 - BOG STILT 600 = 5 - 12 y
- F00601 - BOG STILT 750 = 5 - 12 y

MAXIMUM HEIGHT OF STRUCTURE: 3.05 m

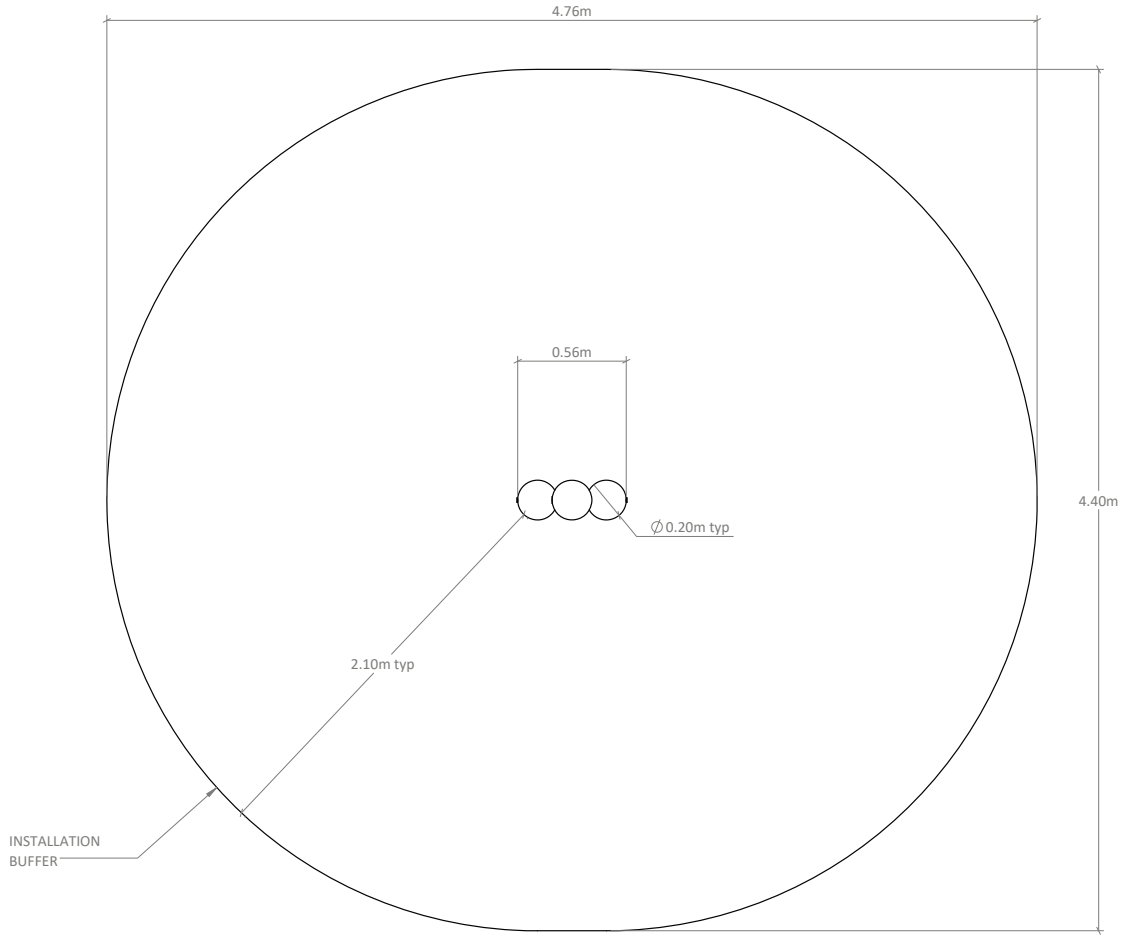
MAXIMUM DESIGNATED FALL HEIGHT:
- F00599 - BOG STILT 450 = 0.45m
- F00600 - BOG STILT 600 = 0.60m
- F00601 - BOG STILT 750 = 0.75m

AREA OF SURFACING: 16.8 m²

WEIGHT: 126 kg

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.
The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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ASTM SPECIFICATIONS (FOR INSTALLATIONS AT U.S. SITES ONLY)

BOG STILTS - SURFACE MOUNT

SPECIFICATIONS

INTENDED USER AGE GROUP:
- F00599 - BOG STILT 450 = 2 - 12 y
- F00600 - BOG STILT 600 = 5 - 12 y
- F00601 - BOG STILT 750 = 5 - 12 y

MAXIMUM HEIGHT OF STRUCTURE: 10'-0"

MAXIMUM DESIGNATED FALL HEIGHT:
- F00599 - BOG STILT 450 = 1' 5-1/2"
- F00600 - BOG STILT 600 = 1' 11-1/2"
- F00601 - BOG STILT 750 = 2' 5-1/2"

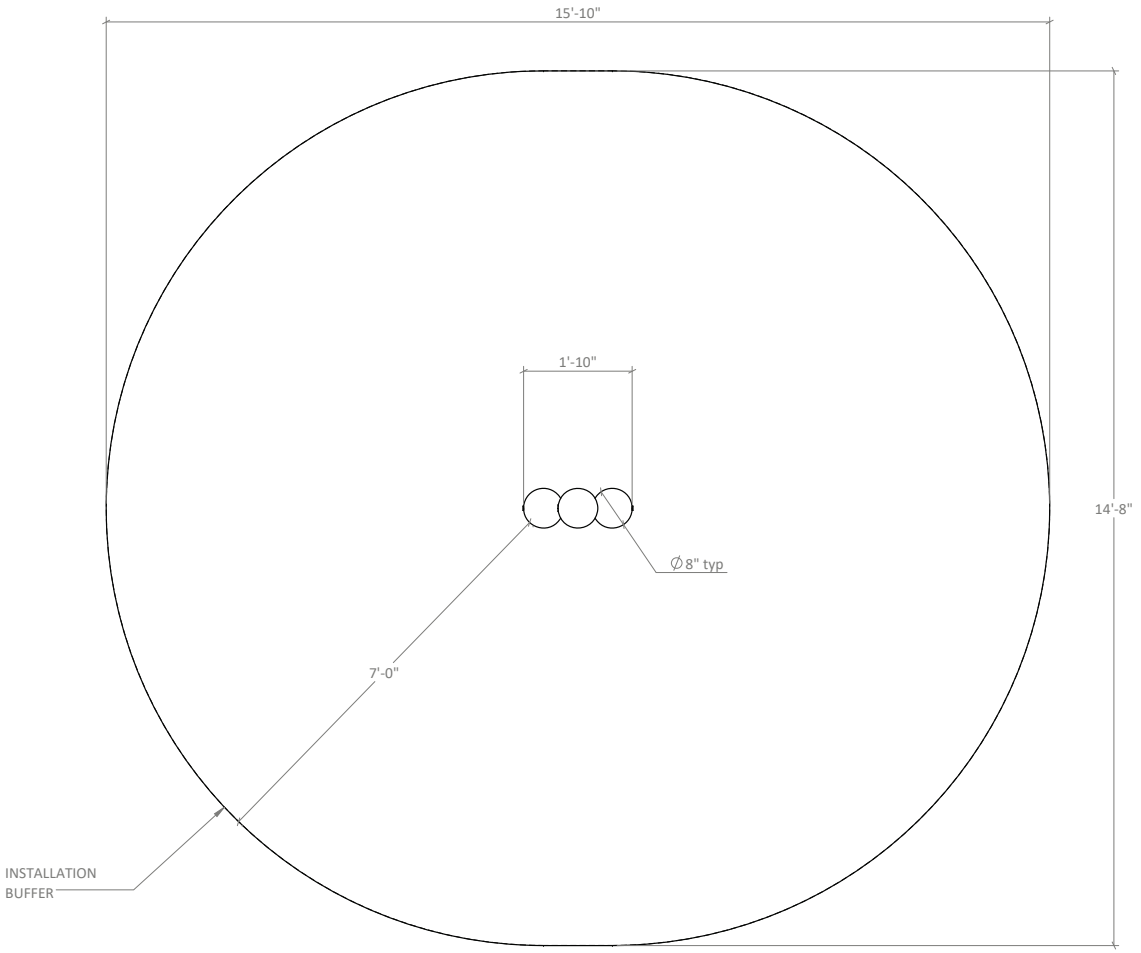
AREA OF SURFACING: 186 ft²

WEIGHT: 280 lb

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.

The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.

If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both meters and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

- None

TOOLS THE INSTALLER NEEDS TO SUPPLY

- High torque drill
- Hammer drill
- 1/2" impact driver
- 1/2" ratcheting socket wrench
- Socket set up to 1-5/16"
- Concrete drill bit, size as per epoxy manufacturer to set 3/4" threaded rod 5" deep in concrete pad
- Angle grinder (with course 24 grit sanding disks and metal cut off disks)
- Transit or Laser Level
- Rigging and lifting straps

EQUIPMENT THE INSTALLED NEEDS TO SUPPLY

Machine to lift and position heaviest element.

- Pre-assembled Bog Stilts +/-126 kg [280 lbs]

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 2

Typical total person-hours to install: 10 + concrete cure time

Time breakdown:

- 3 hours x 2 people for excavation and pouring concrete
- Time for concrete cure
- 2 hours x 2 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

- Threadmate threadlocker Vibra-Tite VC-3 (or equal)
- Epoxy as noted in the Concrete section of the General Notes sheet found at the back of this package
- Concrete and reinforcing steel as specified in this package

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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SUPPLIED PARTS

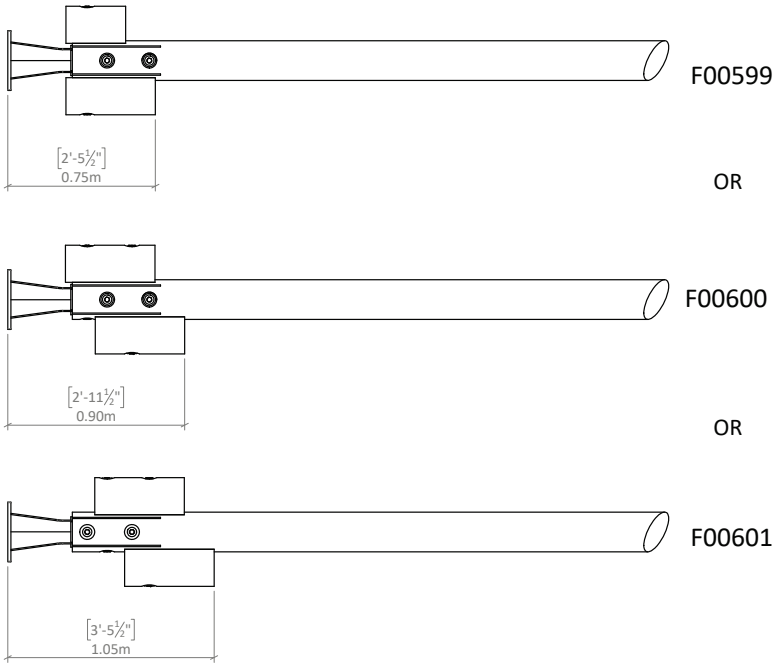
BOG STILTS - SURFACE MOUNT

MAKE SURE YOU HAVE ALL THE PARTS

Examine the equipment and ensure you have all the required parts listed in the tables below. Hardware listed is per Bog Stilt.

Your order may include multiple Bog Stilts or a combination of the items below. The bog stilts come fully assembled.

INSTALLATION HARDWARE NEEDED FOR EACH INDIVIDUAL BOG STILT:				
PART IMAGE	**ITEM NO.**	**PART NO.**	**DESCRIPTION**	**QTY.**
	1	H20028	THREADED STUD 3/4"X 12" HDG	4
	2	H30080	WASHER 3/4" X 1-3/4" HDG	4
	3	H40046	HEX NUT 3/4-10 HDG	4
ONE BOG STILT ONLY INCUDES ONE OF THE FOLLOWING THREE SIZES. SEE SITE PLAN AND ORDER TO CONFIRM WHAT SIZES HAVE BEEN PURCHASED AND WHERE THEY NEED TO BE PLACED ON SITE.				
SEE IMAGE THIS SHEET	4A	F00599	BOG STILT 450 - SURFACE MOUNT	1
OR				
SEE IMAGE THIS SHEET	4B	F00600	BOG STILT 600 - SURFACE MOUNT	1
OR				
SEE IMAGE THIS SHEET	4C	F00601	BOG STILT 750 - SURFACE MOUNT	1



AS SHIPPED ORIENTATION

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

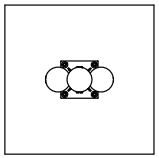
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FINISHED PRODUCT

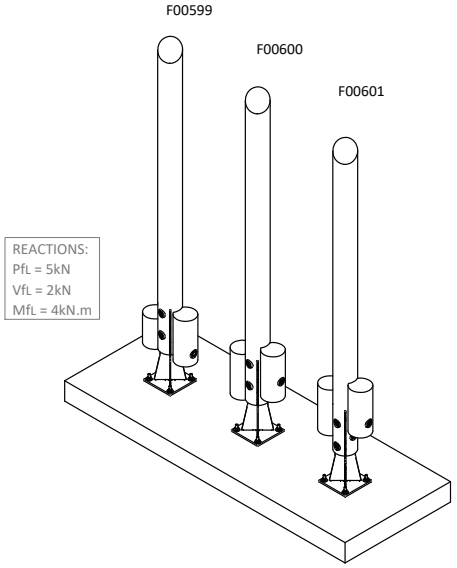
BOG STILTS - SURFACE MOUNT

WHAT THE FINISHED PRODUCT LOOKS LIKE

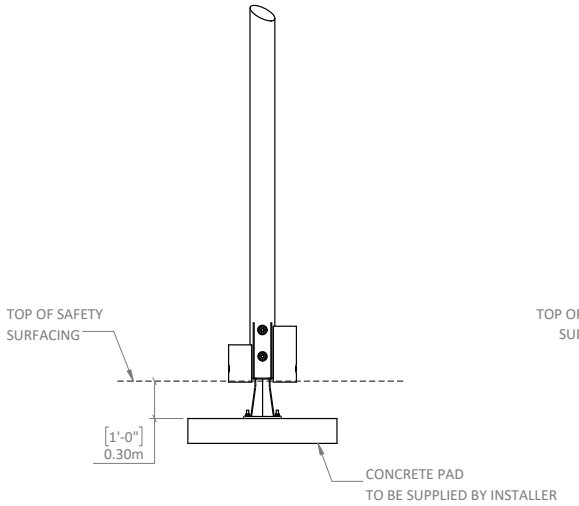
One or more Bog Stilts may be included in the playground design.
Review the overall design layout by others to understand the location and orientation of each Bog Stilt.



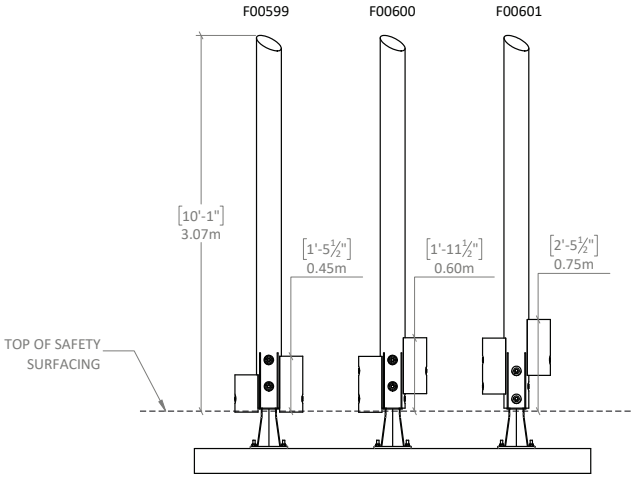
PLAN VIEW



ISOMETRIC VIEW



RIGHT SIDE VIEW



FRONT VIEW

DATE DOCUMENT RELEASED 2024-01-10
DOCUMENT NUMBER: 1135270 - R4

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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FUNCTIONALLY LINKING

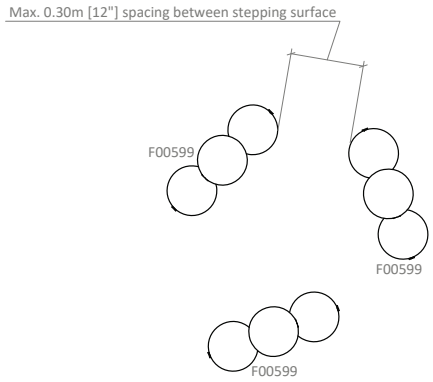
BOG STILTS - SURFACE MOUNT

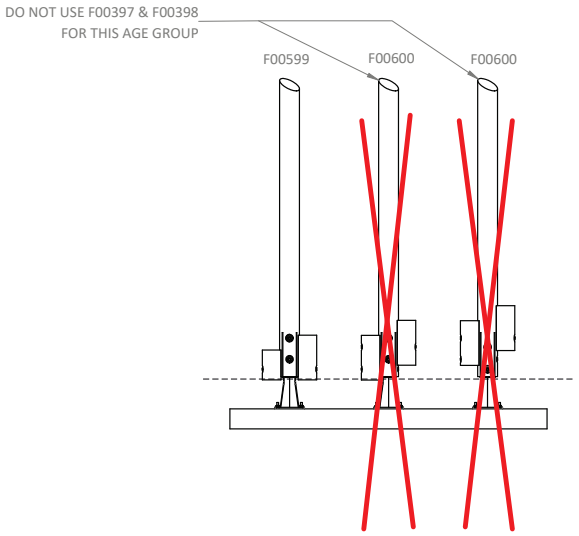
STEP 1 - DETERMINE AGE GROUP

Determine the age group for which the play area is designed (not within the scope of these instructions). Then follow the spacing guidelines on this page.

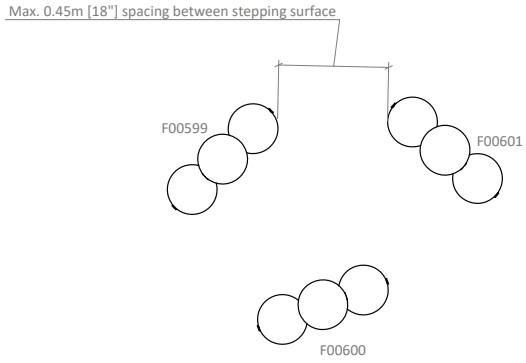
The location and configuration of the Bog Stilts is not within the scope of these instructions and should be provided by others.

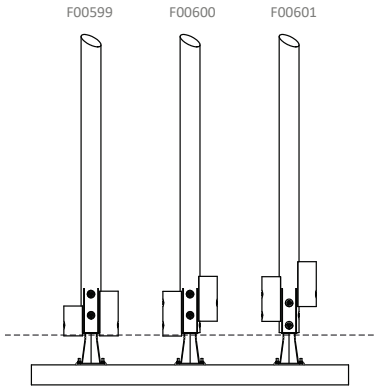
ASTM 2-5 Y AGE GROUP
CSA 18M - 5 Y AGE GROUP





ASTM 5-12 Y AGE GROUP
CSA 5-12 Y AGE GROUP





NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE PLAY EQUIPMENT

BOG STILTS - SURFACE MOUNT

STEP 2 - LAYOUT BOG-STILT(S)

Layout and mark the location of the center of the Bog Stilt(s). The location of these points and the direction of the Bog Stilt(s) relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished play surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

STEP 3 - LAYOUT CONCRETE PAD

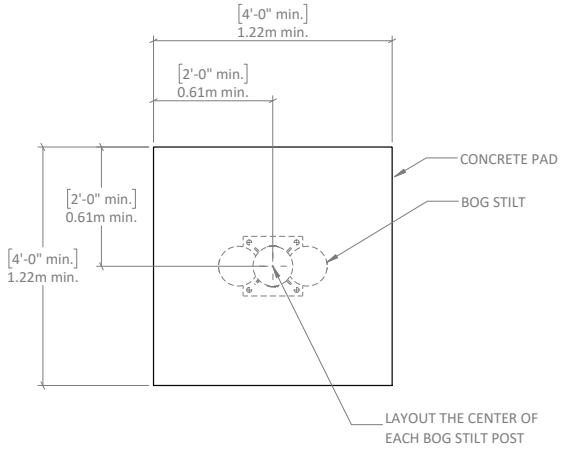
Layout and mark the limits for the concrete foundation pad based on the offset from the center points of the Bog Stilt posts.

For a single post the minimum size is shown in the Plan View - Single Post this sheet.

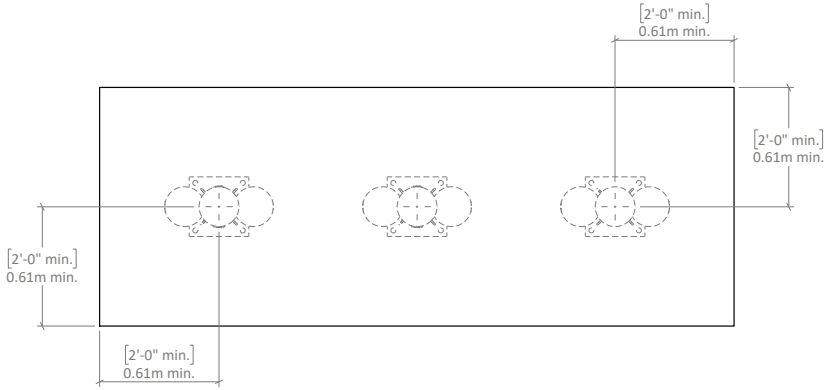
Where Bog Stilts are used near one another, one continuous pad will be required. The concrete pad must maintain the minimum distance shown from the centre of all posts as shown in the sample Plan View - Multiple Posts this sheet.

The foundation size applies to all heights of Bog Stilts.

The detail provided in these instructions has been developed assuming typical soil conditions specified in general notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a registered engineer.



PLAN VIEW - SINGLE POST



PLAN VIEW - MULTIPLE POSTS

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POUR CONCRETE AND SECURE PLAY EQUIPMENT

BOG STILTS - SURFACE MOUNT

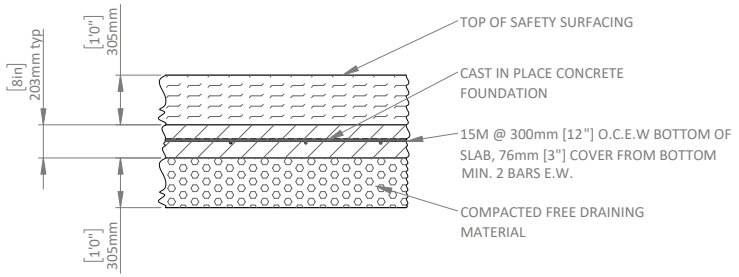
STEP 4 - EXCAVATE, FORM AND POUR CONCRETE PAD

Excavate, form and pour the foundation pad as per Concreate Foundation Detail on this sheet.

ALLOW CONCRETE TO CURE BEFORE PROCEEDING TO NEXT STEP.

FOUNDATION NOTES:

1. SEE "GENERAL NOTES" SHEET FOR GENERAL NOTES.
2. TOP OF CONCRETE TO BE SET AT 305mm [12"] BELOW TOP OF SURFACING UNO.
3. SLAB TO BEAR ON MATERIAL BELOW THE FROST DEPTH, OR ALTERNATIVELY ON 305mm [12"] OF FREE DRAINING AGGREGATE, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.



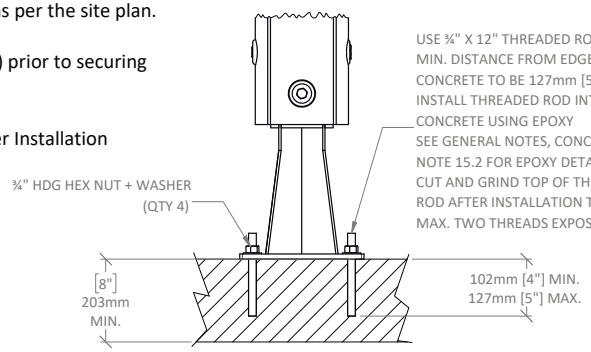
CONCRETE FOUNDATION DETAIL

STEP 5 - SECURE POST TO FOUNDATION

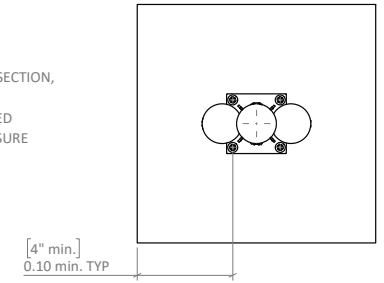
Position the centre of the post and orientation of steps as per the site plan.

Double check functionally linking distances (if applicable) prior to securing post.

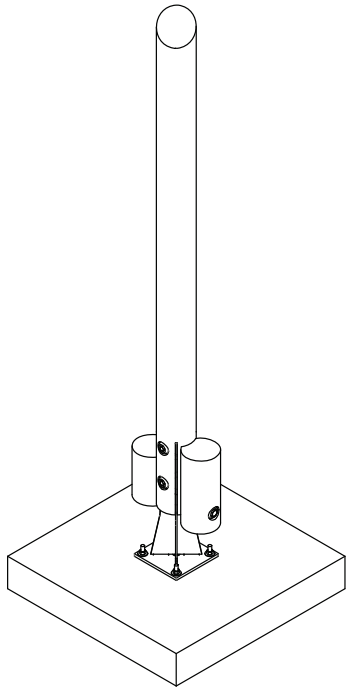
Anchor the metal base bracket to the concrete pad as per Installation Hardware Detail on this sheet.



INSTALLATION HARDWARE



PLAN VIEW



END OF STEP 5

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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GENERAL NOTES

BOG STILTS - SURFACE MOUNT

FOR CANADIAN INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

1. THIS DRAWING IS THE PROPERTY OF EARTHSCAPE. DO NOT COPY OR DISTRIBUTE WITHOUT PERMISSION.
2. EARTHSCAPE RESERVES OWNERSHIP OF ALL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, AUTHORED BY EARTHSCAPE. UPON SIGNING CONTRACT, EARTHSCAPE GRANTS THE OWNER LIMITED LICENSE TO USE THE INSTRUMENTS OF SERVICE SOLELY FOR USING AND MAINTAINING, OR ADDING TO THE PROJECT
3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY CSA Z614. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN mm UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/CSA-Z614 (MOST RECENT EDITION) "CHILDREN'S PLAYSPACES AND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

1. THIS DRAWING IS THE PROPERTY OF EARTHSCAPE. DO NOT COPY OR DISTRIBUTE WITHOUT PERMISSION.
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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

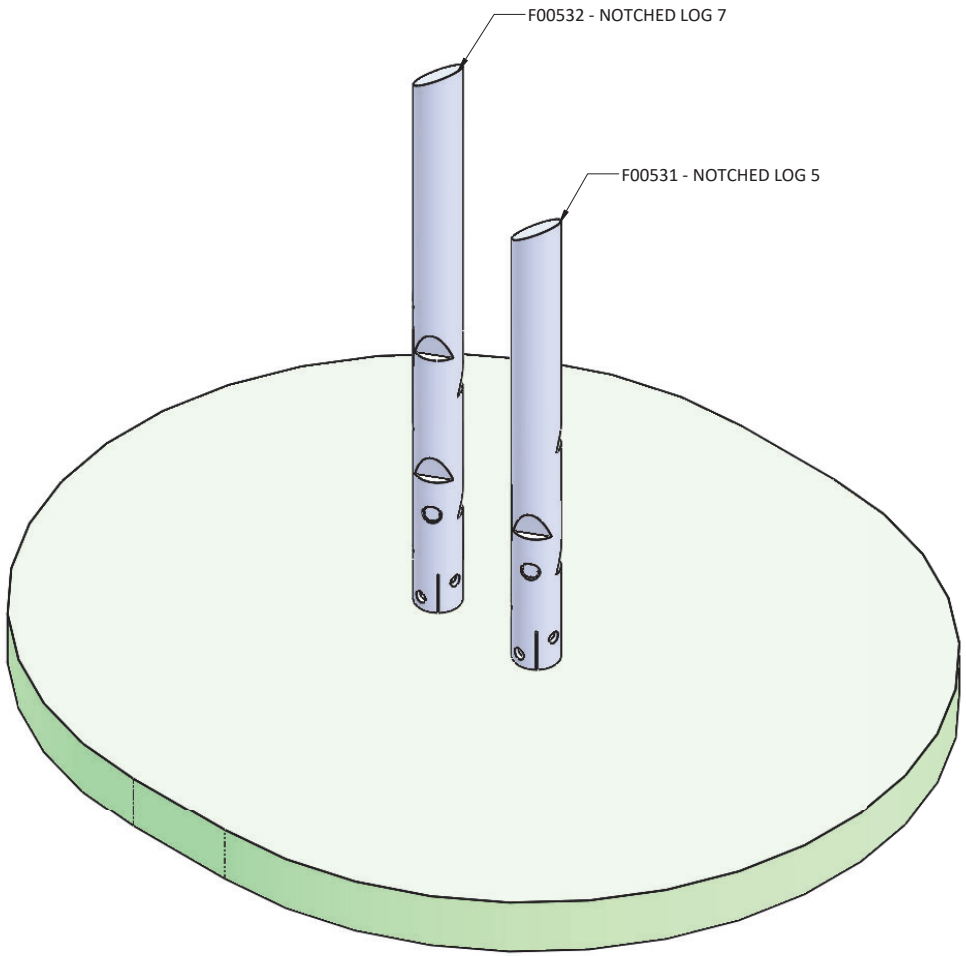
1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



NOTCHED PLAY POST - SURFACE MOUNTED

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

F00531 - NOTCHED PLAY POST 5 - SURFACE MOUNTED
F00532 - NOTCHED PLAY POST 7 - SURFACE MOUNTED

DATE DOCUMENT RELEASED 2023-11-13
DOCUMENT NUMBER: 1081290-R3

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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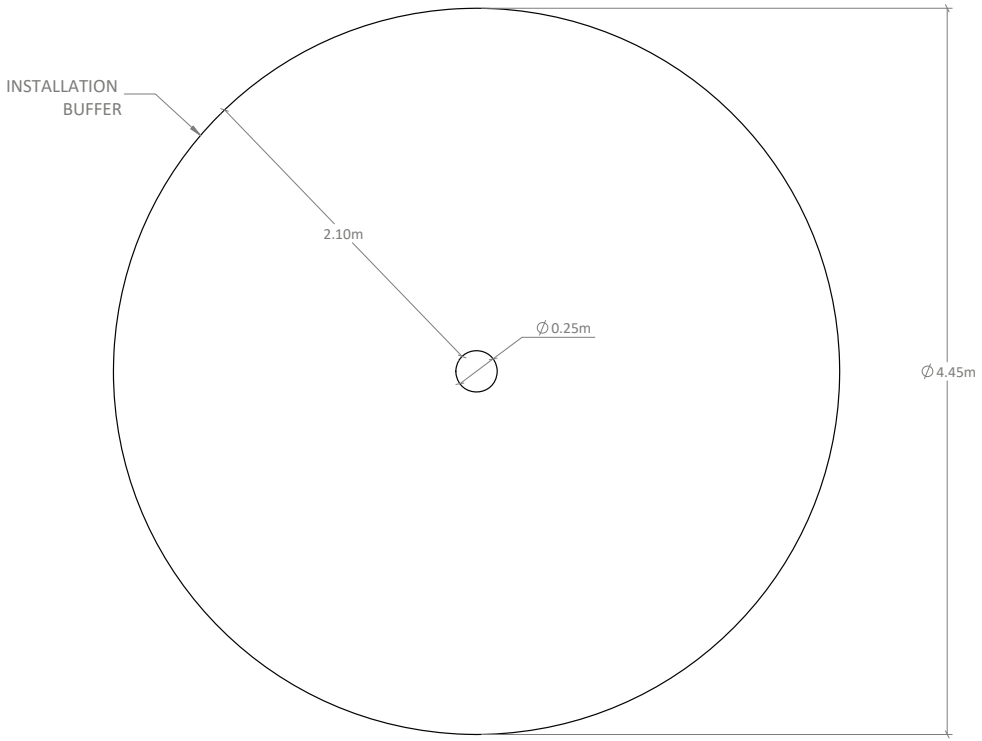
CSA SPECIFICATIONS (FOR INSTALLATION AT CANADIAN SITES ONLY)

NOTCHED PLAY POST - SURFACE MOUNTED

SPECIFICATIONS

AREA OF SURFACING= 15.2 m²

PRODUCT NUMBER	DESCRIPTION	INTENDED USER AGE GROUP	MAX HEIGHT	MAX DESIGNATED FALL HEIGHT	WEIGHT
F00531	NOTCHED PLAY POST 5 - SURFACE MOUNTED	5 - 12y	2.77m	1.35m	115 kg
F00532	NOTCHED PLAY POST 7 - SURFACE MOUNTED	5 - 12y	3.38m	1.85m	140 kg



RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training. The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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ASTM SPECIFICATIONS (FOR INSTALLATION AT U.S. SITES ONLY)

NOTCHED PLAY POST - SURFACE MOUNTED

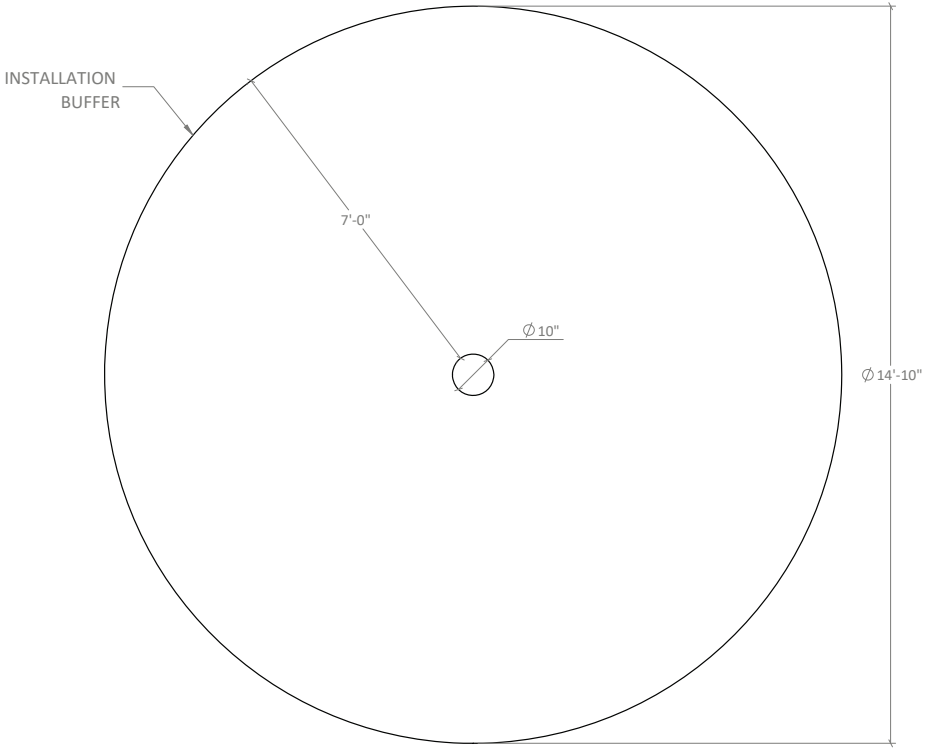
SPECIFICATIONS

AREA OF SURFACING= 150 ft²

PRODUCT NUMBER	DESCRIPTION	INTENDED USER AGE GROUP	MAX HEIGHT	MAX DESIGNATED FALL HEIGHT	WEIGHT
F00531	NOTCHED PLAY POST 5 - SURFACE MOUNTED	5 - 12y	9' 1"	4' 5"	250 lb
F00532	NOTCHED PLAY POST 7 - SURFACE MOUNTED	5 - 12y	11' 1"	6' 1"	310 lb

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training. The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.



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SETTING UP FOR SUCCESS

NOTCHED PLAY POST - SURFACE MOUNTED

PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.

This product might be shipped bundled with other parts or in crates. Review the seperate project "SHIPPING PLAN" document so you can plan for truck access and equipment required for unloading.

If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both metres and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

- None

TOOLS THE INSTALLER NEEDS TO SUPPLY

- High torque drill
- Hammer drill
- Socket set up to 1"
- 1/2" ratcheting socket wrench
- Concrete drill bit, 1/2" x 8"
- Angle grinder (with course 24 grit sanding disks and metal cut off disks)
- Transit or Laser Level

EQUIPMENT THE INSTALLED NEEDS TO SUPPLY

- Machine to lift and place notch play post
  - Notched Play Post 5 - 115 kg [250 lbs]
  - Notched Play Post 5 - 140 kg [310 lbs]

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 2
Typical total person-hours to install: 6 + concrete cure time

Time breakdown:
- 2 hours x 2 people for excavation
- 1 hours x 2 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

- Concrete and reinforcing steel as specified in this package

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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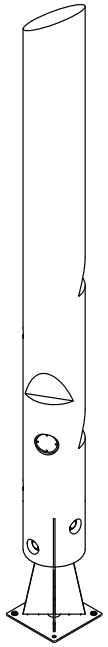
SUPPLIED PARTS

NOTCHED PLAY POST - SURFACE MOUNTED

MAKE SURE YOU HAVE ALL THE PARTS

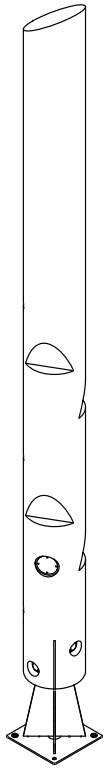
Examine the equipment and ensure you have all the required parts listed in the table below.

INSTALLATION HARDWARE NEEDED FOR EACH INDIVIDUAL POST				
PART IMAGE	ITEM NO.	PART NO.	DESCRIPTION	QTY.
	1	H60020	TITEN HD 1/2" X 5" CONCRETE SCREW	4
	2	H30088	WASHER NYLON 5/8" X 1"	4
ONE NOTCHED PLAY POST ONLY INCLUDES ONE OF THE FOLLOW 2 SIZES. SEE SITE PLAN AND ORDER TO CONFIRM WHAT SIZES HAVE BEEN PURCHASED AND WHERE THEY NEED TO BE PLACED ON SITE.				
SEE IMAGE THIS SHEET	3A	F00531	NOTCHED PLAY POST 5	1
OR				
SEE IMAGE THIS SHEET	3B	F00532	NOTCHED PLAY POST 7	1



F00531
NOTCHED PLAY POST 5

OR



F00532
NOTCHED PLAY POST 7

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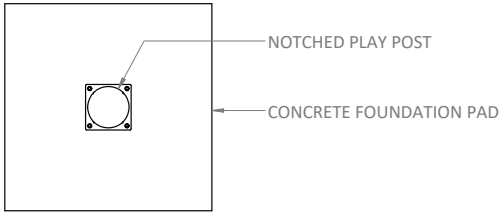
FINISHED PRODUCT

NOTCHED PLAY POST - SURFACE MOUNTED

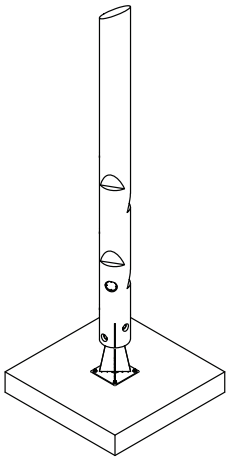
WHAT THE FINISHED PRODUCT LOOKS LIKE

There are two heights of notched play posts. One or more posts may be included in the playground design. Review the overall design layout by others to understand the location of each post.

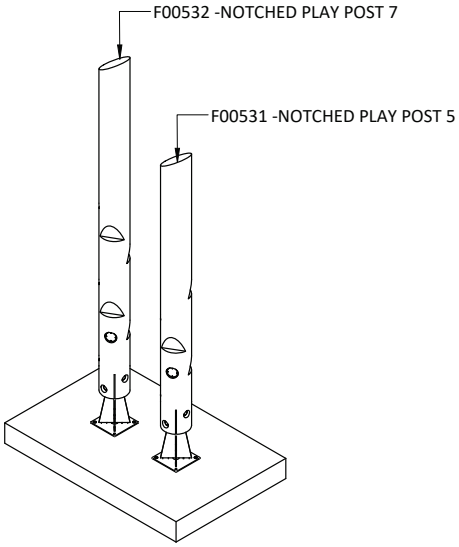
The location and configuration of the posts is not within the scope of these instructions and should be provided by others.



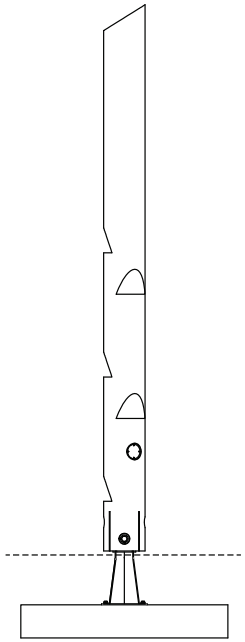
PLAN VIEW



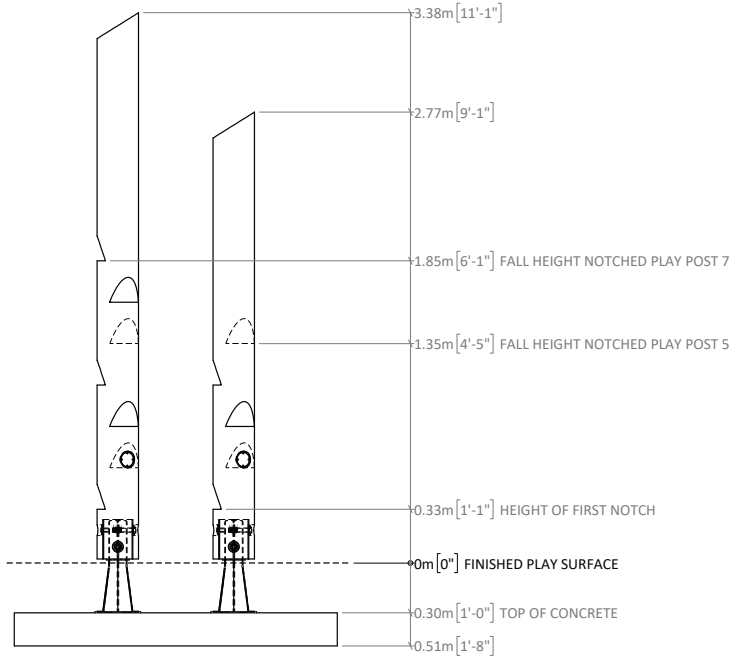
ISOMETRIC VIEW - SINGLE STEPPERS



ISOMETRIC VIEW - MULTIPLE STEPPERS



LEFT SIDE VIEW



FRONT VIEW

DATE DOCUMENT RELEASED 2023-11-13
DOCUMENT NUMBER: 1081290 - R3

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LAYOUT PLAY EQUIPMENT

NOTCHED PLAY POST - SURFACE MOUNTED

STEP 1 - LAYOUT POSTS(S)

Layout and mark the center of each post as per the overall site plan.

The location of the post(s) relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished play surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

TOP OF CONCRETE IS 305mm [12"] BELOW FINISHED PLAY SURFACE.

STEP 2 - LAYOUT CONCRETE PAD

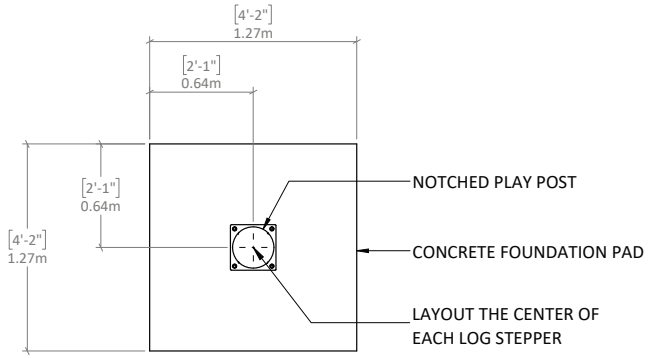
Layout and mark the limits for the concrete foundation pad based on the offset from the center points of the post(s).

For a single stepper the minimum size is shown in the Plan View - Single Notchener Play Post this sheet.

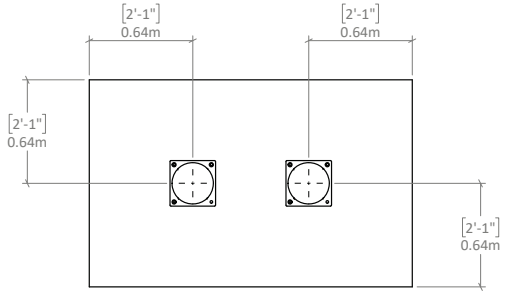
Where posts are used near one another, one continuous pad will be required. The concrete pad must maintain the minimum distance shown from the centre of all posts as shown in the sample Plan View - Multiple Notched Play Post this sheet.

The foundation size applies to both heights of steppers.

The detail provided in these instructions has been developed assuming typical soil conditions specified in general notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a registered engineer.



PLAN VIEW - SINGLE
NOTCHED PLAY POST



PLAN VIEW - MULTIPLE
NOTCHED PLAY POST

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POUR CONCRETE AND SECURE PLAY EQUIPMENT

NOTCHED PLAY POST - SURFACE MOUNTED

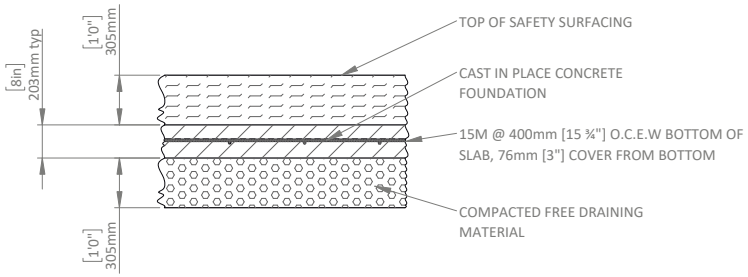
STEP 3 - EXCAVATE, FORM AND POUR CONCRETE PAD

Excavate, form and pour the foundation pad as per detail SD-001E on this sheet.

ALLOW CONCRETE TO CURE BEFORE PROCEEDING TO NEXT STEP.

FOUNDATION NOTES:

1. SEE "GENERAL NOTES" SHEET FOR GENERAL NOTES.
2. TOP OF CONCRETE TO BE SET AT 300mm [12"] BELOW TOP OF SURFACING UNO.
3. SLAB TO BEAR ON MATERIAL BELOW THE FROST DEPTH, OR ALTERNATIVELY ON 300mm [12"] OF FREE DRAINING AGGREGATE, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.

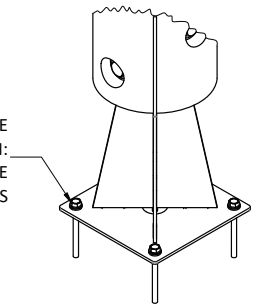


CONCRETE FOUNDATION DETAIL SD-001E

STEP 4 - SECURE LOG STEPPER TO FOUNDATION

Position the centre of the post base bracket as per the site plan.

Anchor the metal base bracket to the concrete pad as per Detail A



DETAIL A

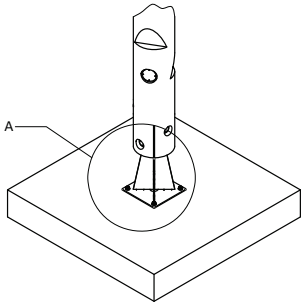


FIGURE 1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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GENERAL NOTES

NOTCHED PLAY POST - SURFACE MOUNTED

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4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
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8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
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12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

1. THIS DRAWING IS THE PROPERTY OF EARTHSCAPE. DO NOT COPY OR DISTRIBUTE WITHOUT PERMISSION.
2. EARTHSCAPE RESERVES OWNERSHIP OF ALL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, AUTHORED BY EARTHSCAPE. UPON SIGNING CONTRACT, EARTHSCAPE GRANTS THE OWNER LIMITED LICENSE TO USE THE INSTRUMENTS OF SERVICE SOLELY FOR USING AND MAINTAINING, OR ADDING TO THE PROJECT
3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

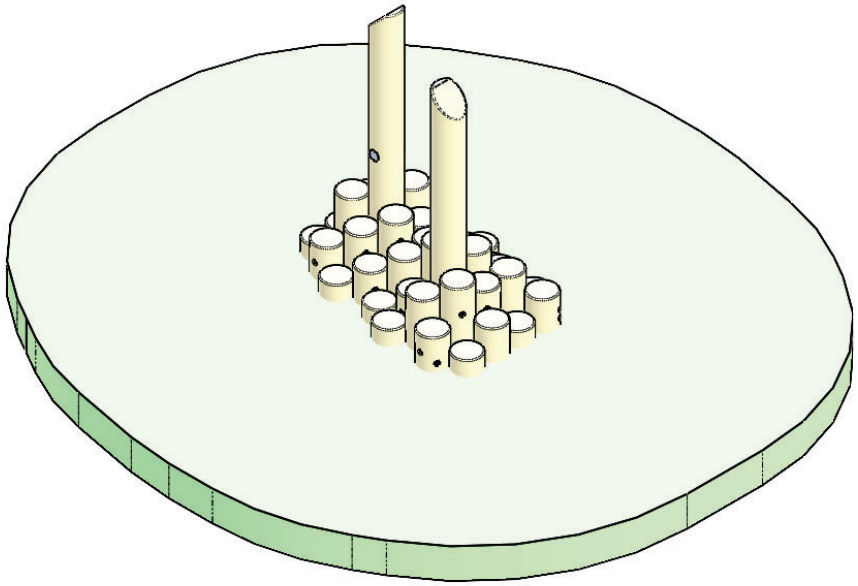
1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



STEPPER CLUSTER S2

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

F00495 - STEPPER CLUSTER S2
(CONCRETE FOUNDATION INSTALL)

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

DATE DOCUMENT RELEASED 2025-02-26
DOCUMENT NUMBER: 1063638-R3

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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CSA SPECIFICATIONS (FOR INSTALLATIONS AT CANADIAN SITES ONLY)

STEPPER CLUSTER S2

SPECIFICATIONS

INTENDED USER AGE GROUP: 18 m to 5 y
MAXIMUM HEIGHT OF STRUCTURE: 2.44 m
MAXIMUM DESIGNATED FALL HEIGHT: 0.60 m
AREA OF SURFACING: 28.5 m²
WEIGHT: 1421 kg

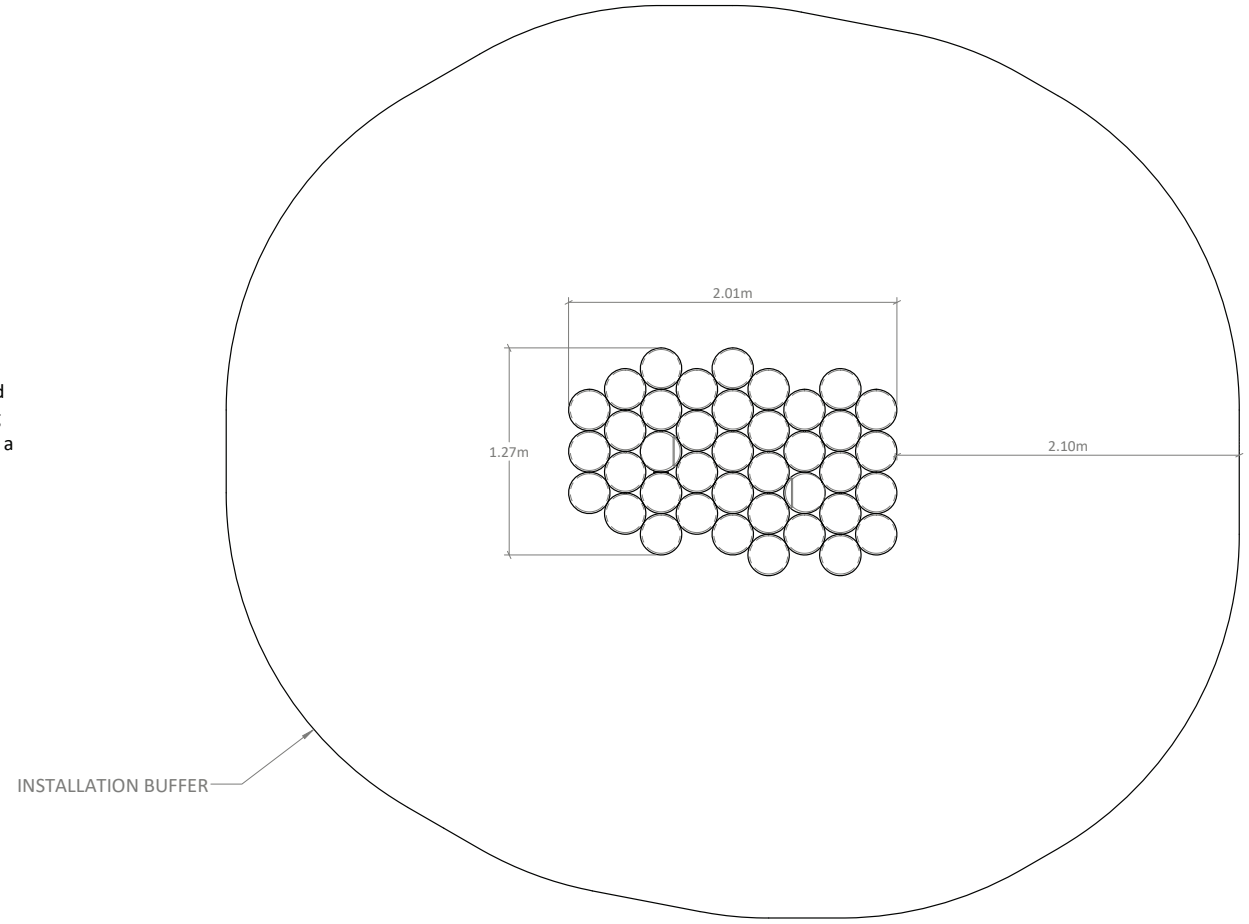
RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.
The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.

REACTION LOADS

In addition to the weight of the structure, noted above, the following playground live loads are applicable:

2.2 kN live load acting on any one stepper
8.83 kPa live load acting over the entire stepper cluster



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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ASTM SPECIFICATIONS (FOR INSTALLATIONS AT U.S. SITES ONLY)

STEPPER CLUSTER S2

SPECIFICATIONS

INTENDED USER AGE GROUP: 2 to 5 y
MAXIMUM HEIGHT OF STRUCTURE: 8'-0"
MAXIMUM DESIGNATED FALL HEIGHT: 2'-0"
AREA OF SURFACING: 313 ft²
WEIGHT: 3133 lb

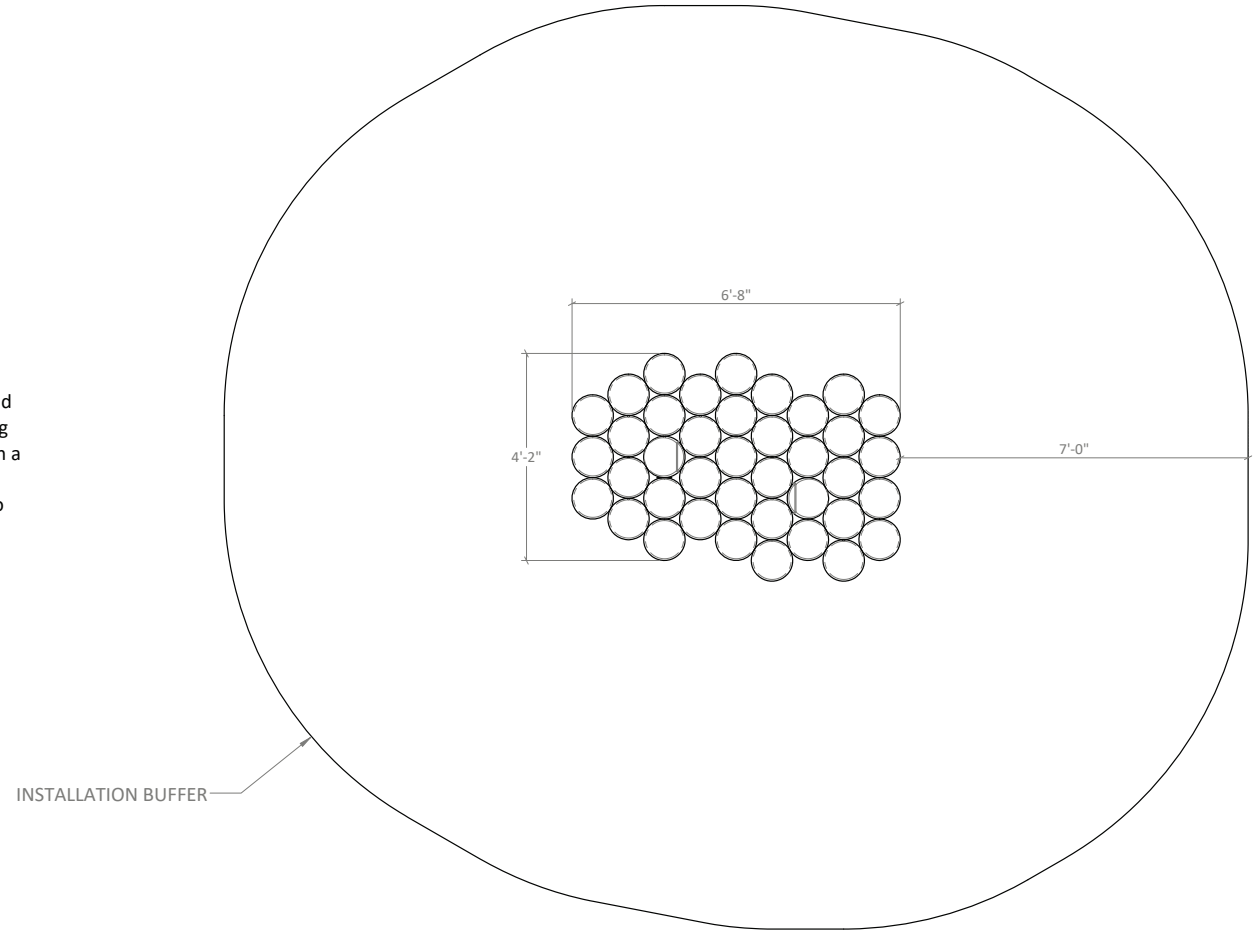
RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.
The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.

REACTION LOADS

In addition to the weight of the structure, noted above, the following playground live loads are applicable:

0.5 kips live load acting on any one stepper
184 psf live load acting over the entire stepper cluster



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NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.
If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both metres and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

No Tools Supplied.

TOOLS THE INSTALLER NEEDS TO SUPPLY

High torque drill
Hammer drill
1/2" impact driver
Set of wood drill bits - up to 1/2"
Set of impact sockets - up to 1"
1/2" ratcheting socket wrench
T25 drive bit
T40 drive bit
Concrete drill bit, 1/2" x 8"
Angle grinder (with course 24 grit sanding disks and metal cut off disks)
Transit or Laser Level
Rigging and lifting straps

EQUIPMENT THE INSTALLER NEEDS TO SUPPLY

Machine to lift and position heaviest element:
Stepper Cluster S2 +/- 1421 kg [3133 lb]

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 2
Typical total person-hours to install: 10 + concrete cure time
Time breakdown:

- 4 hours x 2 people for excavation and pouring concrete
- Time for concrete cure
- 1 hours x 2 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

Installer to supply materials for preparation, pour and cure of concrete.
See Sheet 9.

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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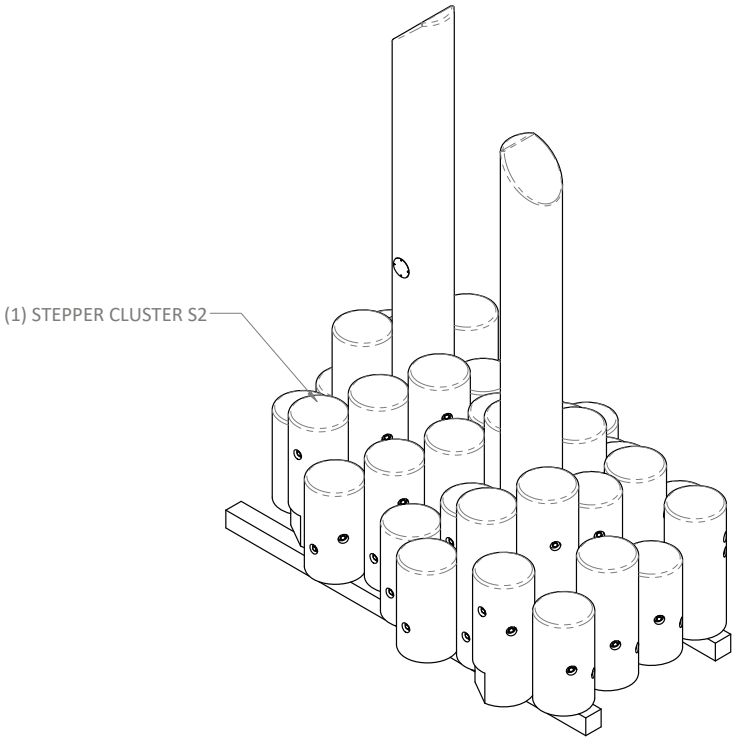
SUPPLIED PARTS

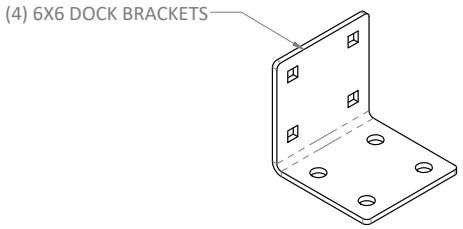
MAKE SURE YOU HAVE ALL THE PARTS

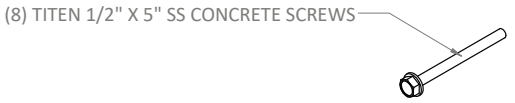
Examine the equipment and ensure you have all the required parts listed in the tables below.

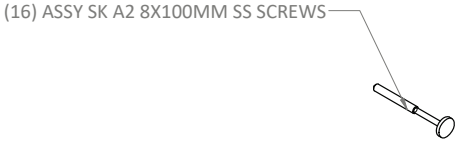
See "As Shipped Page" to understand orientation of product as delivered to site.

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	F00495	STEPPER CLUSTER S2	1
2	B00060	6 X 6 DOCK BRACKET V2	4
3	H60020	TITEN HD 1/2" X 5" CONCRETE SCREW	8
4	H16685	WOOD SCREW, WASHER HEAD, M8X100, SS	16







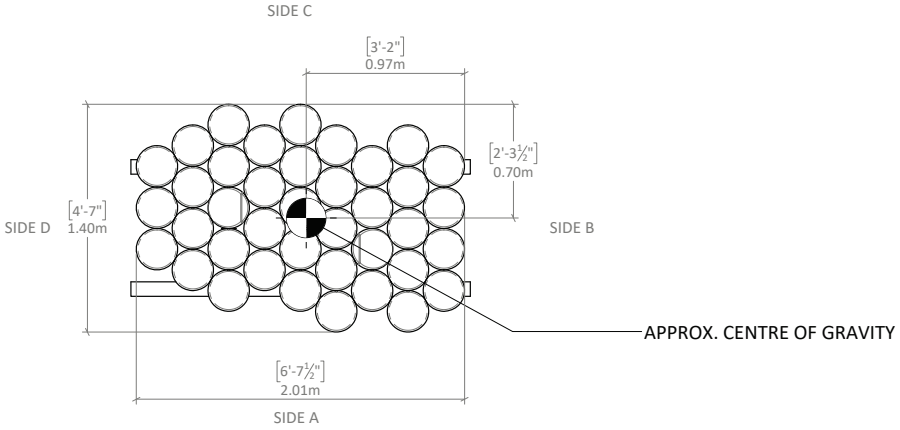


NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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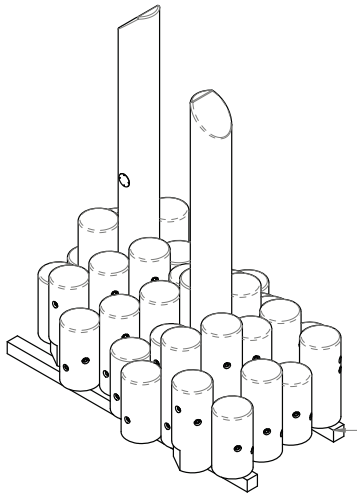
AS SHIPPED

STEPPER CLUSTER S2

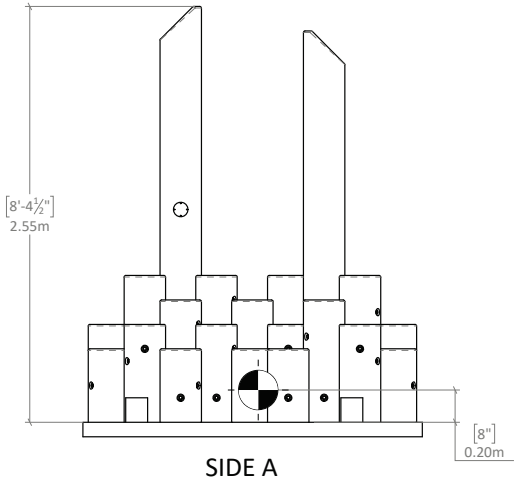


PLAN VIEW

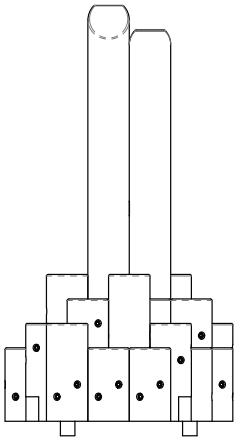
WEIGHT OF STEPPER CLUSTER S2: 1421 kg [3133 lb]



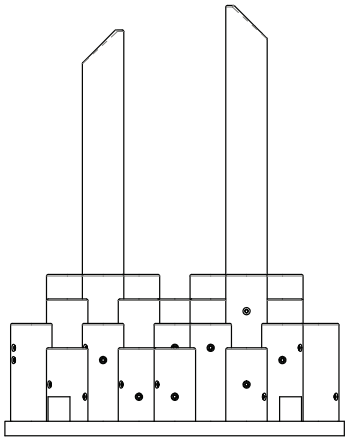
DUNNAGE MUST BE REMOVED PRIOR TO FINAL INSTALLATION



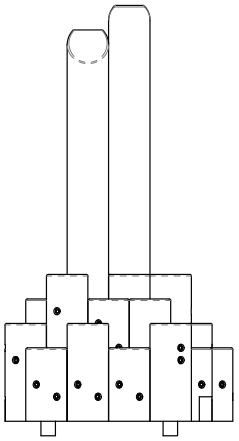
SIDE A



SIDE B



SIDE C



SIDE D

DATE DOCUMENT RELEASED 2025-02-26
DOCUMENT NUMBER: 1063638 - R3

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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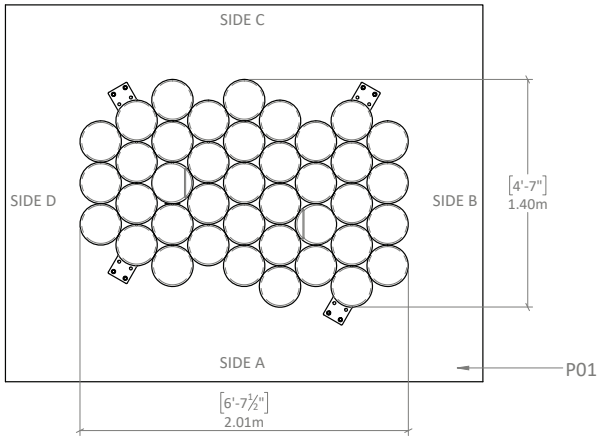
FINISHED PRODUCT

STEPPER CLUSTER S2

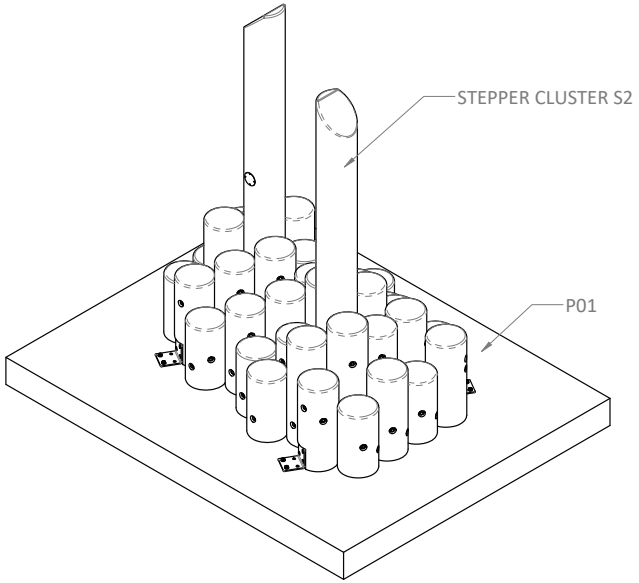
WHAT THE FINISHED PRODUCT LOOKS LIKE

Review the overall site layout (by others) to understand the location and orientation of the Stepper Cluster S2. The location of the Stepper Cluster S2 in relation to other site elements is not within the scope of these instructions and should be provided by others.

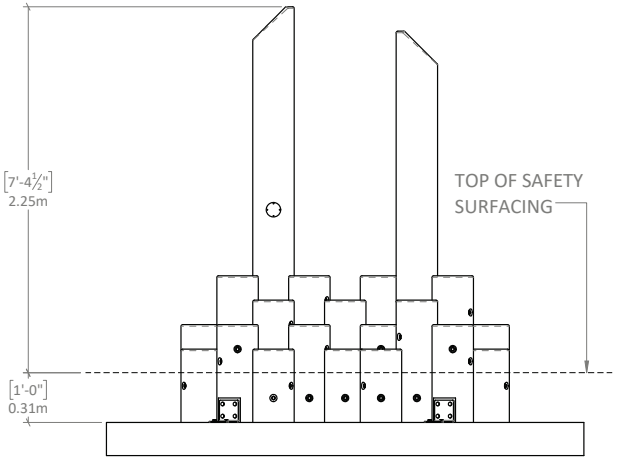
P01 is a poured-in-place concrete pad used to support and anchor Stepper Cluster S2. The concrete pad is to be provided by the installer if a suitable pad is not already provided.



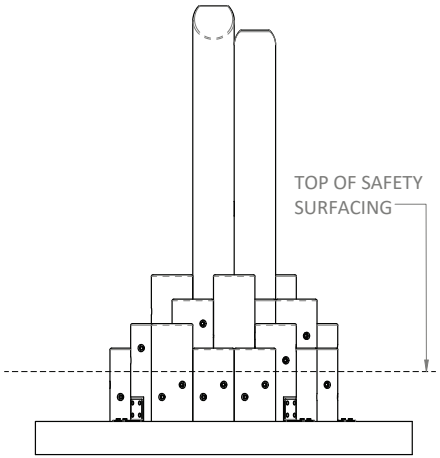
PLAN VIEW



ISOMETRIC VIEW



SIDE A



SIDE B

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE PLAY EQUIPMENT

STEPPER CLUSTER S2

STEP 1 - LOCATING THE EQUIPMENT ON SITE

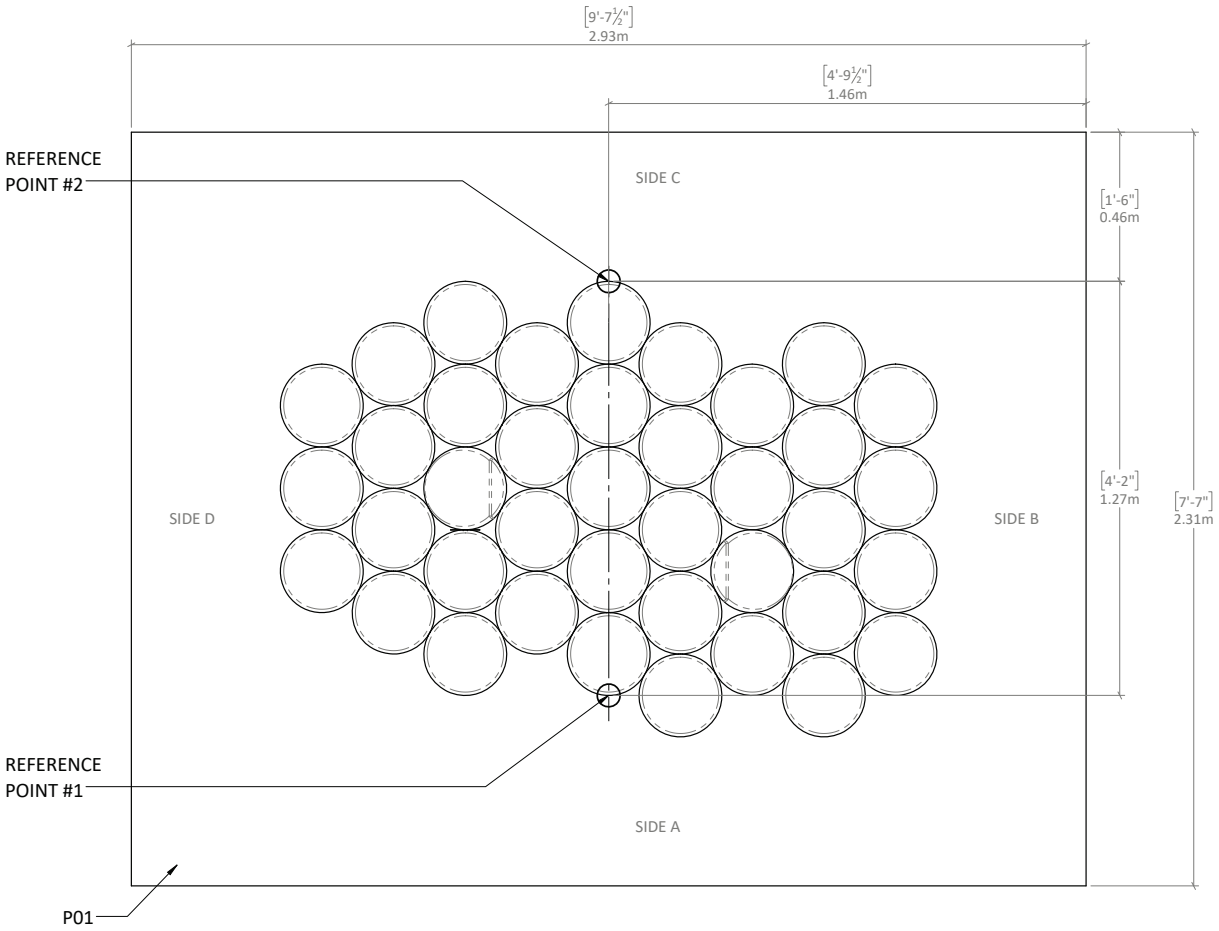
Lay out and mark the location of the the Stepper Cluster S2 Reference Points #1 & #2 on your site. The location of reference points relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished safety surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

Ensure sufficient space is provided around Stepper Cluster S2 to maintain installation buffer as detailed in CSA or ASTM Specifications (sheet 2 & 3, as relevant to install location) when installed as a standalone unit.
Refer to project site plan when installed as a part of larger playground.

STEP 2 - LAYOUT CONCRETE PAD

Lay out and mark the outer edge of the concrete pad based off the dimensions provided in the Footing Plan View.



FOOTING PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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EXCAVATION AND POUR CONCRETE

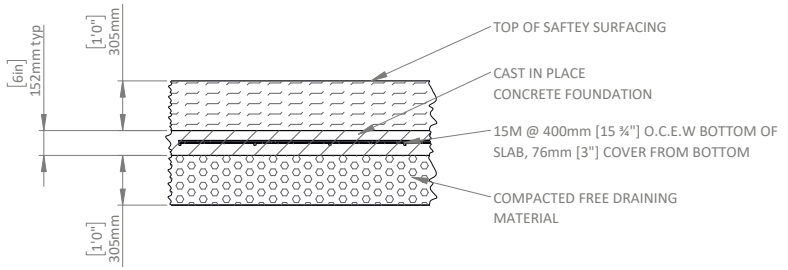
STEP 3 - EXCAVATE FOR CONCRETE PAD

Excavate area and prepare as per Concrete Placement Detail SD-001D on this sheet.

The foundation detail provided in these instructions has been developed assuming typical soil conditions specified in General Notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a licensed professional engineer.

FOUNDATION NOTES:

1. SEE "GENERAL NOTES" SHEET FOR GENERAL NOTES.
2. TOP OF CONCRETE TO BE SET AT 300mm [12"] BELOW TOP OF SURFACING UNO.
3. SLAB TO BEAR ON MATERIAL BELOW THE FROST DEPTH, OR ALTERNATIVELY ON 300mm [12"] OF FREE DRAINING AGGREGATE, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.



CONCRETE FOUNDATION DETAIL SD-001D

STEP 4 - POUR CONCRETE PAD

Pour concrete pad as per Concrete Placement Detail SD-001D on this sheet.
Ensure top of concrete is 300mm [12"] below finished safety surface.
Allow concrete to cure prior to proceeding to Step 5.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

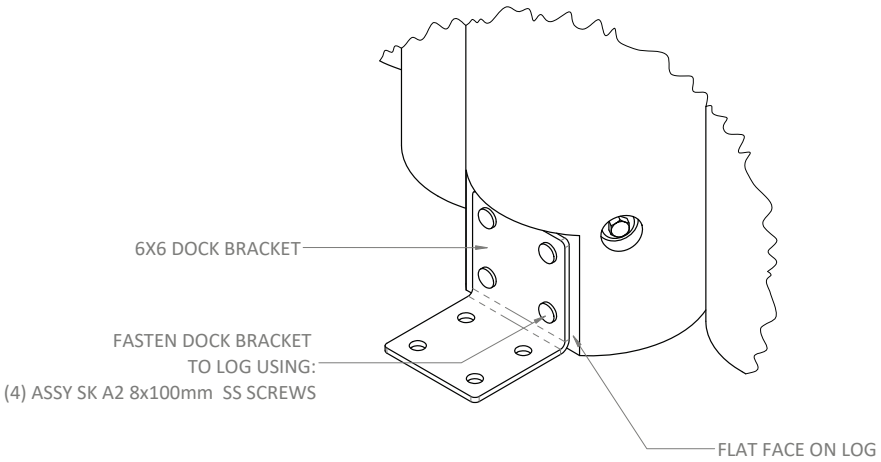
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STEP 5 - INSTALL DOCK BRACKETS

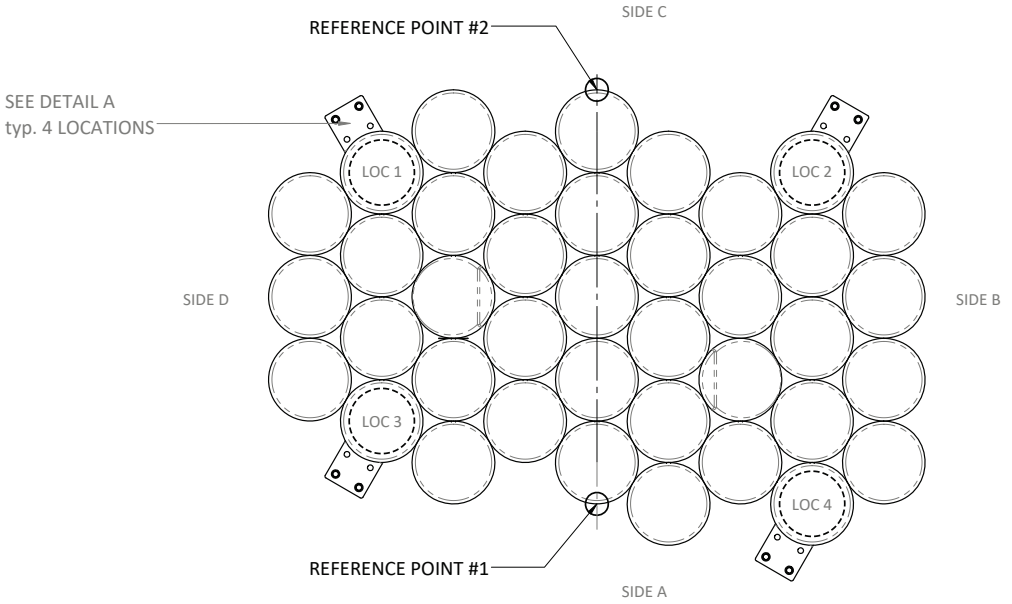
Refer to Plan View drawing on this page for install positions of the Dock Brackets. Note the orientation and identify logs to receive Dock Brackets.

Identify the flat face cut into the base of indicated logs and install dock brackets such that the vertical of the dock bracket sits flush against it, with no portion protruding out from the uncut face of the log. The horizontal of the dock bracket should sit flush with the base of the Stepper Cluster S2 extending away from the log. See Detail A.

Fasten each dock bracket to the log using (4) Assy SK A2 8x100mm SS screws.



DETAIL A



PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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SECURE STEPPER CLUSTER ON PAD

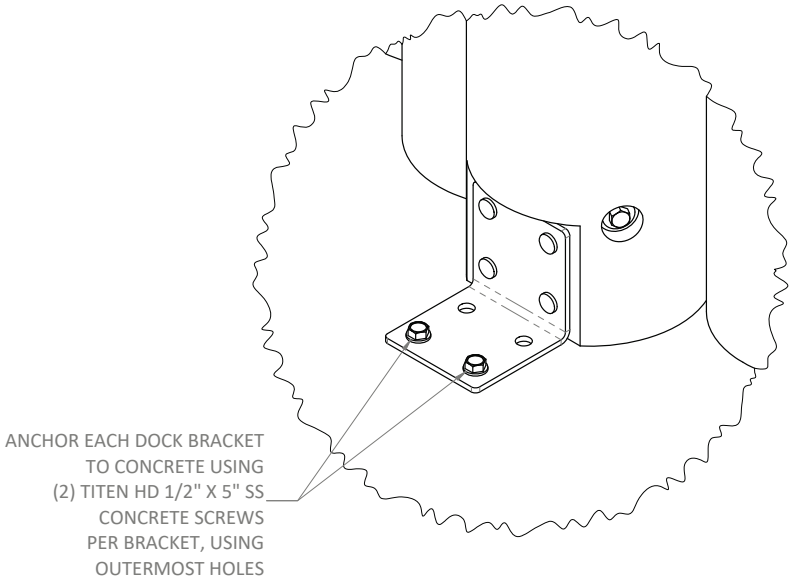
STEP 6 - SECURE STEPPER CLUSTER TO CONCRETE PAD

Ensure shipping dunnage has been removed.

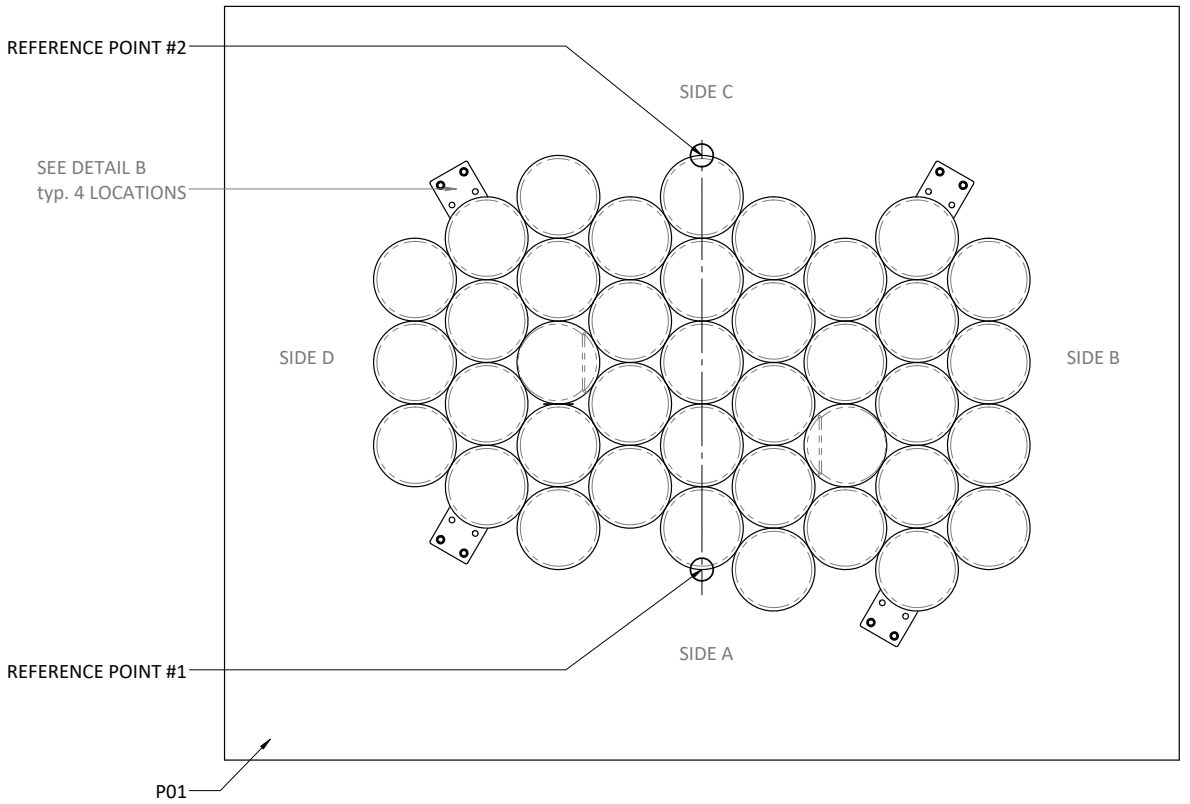
Position Stepper Cluster S2 on concrete pad P01 as per plan view this sheet.

Use Reference Points marked on Stepper Cluster and on site to locate the Stepper Cluster.

Anchor the Dock Brackets to the concrete pad as per Detail B on this sheet.



DETAIL B



PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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GENERAL NOTES

STEPPER CLUSTER S2

FOR CANADIAN INSTALLATION SITES USE THESE NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY CSA Z614. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN METRES (m) UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/CSA-Z614 (MOST RECENT EDITION) "CHILDREN'S PLAYSPACES AND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1/2
2. ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH CAN/CSA A23.1/2 INCLUDING FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER.
3. REINFORCING STEEL SHALL COMPLY WITH CAN/CSA G40.18
4. DO NOT ADD WATER TO CONCRETE ONSITE.
5. ENSURE A MINIMUM COVER OF 75mm TO THE GROUND IN ALL BELOW GRADE CONCRETE.
6. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
7. CONCRETE REINFORCING TO DEFORMED MINIMUM YIELD STRENGTH OF 400 MPa
8. PIT RUN GRAVEL WILL NOT BE ACCEPTABLE.
9. ALL REINFORCING CHAIRS SHALL BE PLASTIC
10. ALL FORM OIL TO BE NON-STAINING MINERAL OIL, FREE OF KEROSENE.
11. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A1064.
12. VIBRATE ALL CONCRETE TO ENSURE THAT CONCRETE IS FREE FROM VOIDS AND OTHER DEFECTS.
13. MOIST CURE ALL CONCRETE 7 DAYS.
14. IN HOT OR COLD WEATHER CONDITIONS TAKE ADDITIONAL PRECAUTIONS AS PER CAN/CSA A23.1/2.
15. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN FEET-INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

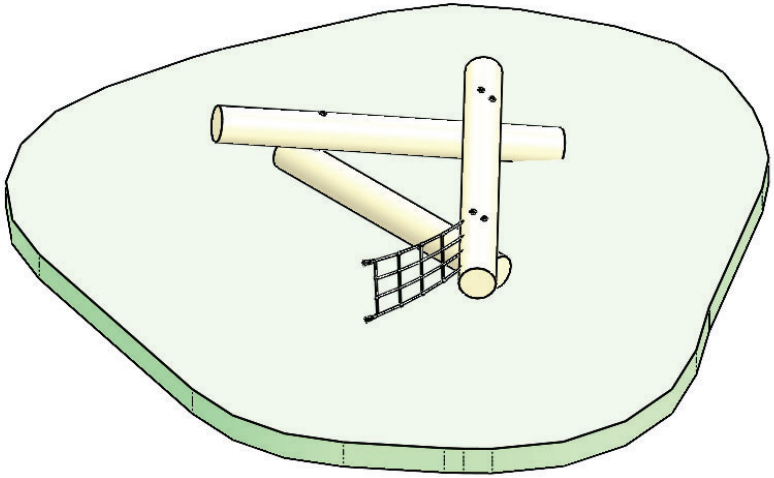
1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI-301
2. ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH ASTM A615 AND ACI-301 INCLUDING FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER.
3. REINFORCING STEEL SHALL COMPLY WITH ASTM A615
4. DO NOT ADD WATER TO CONCRETE ONSITE.
5. ENSURE A MINIMUM COVER OF 3" TO THE GROUND IN ALL BELOW GRADE CONCRETE.
6. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
7. CONCRETE REINFORCING TO DEFORMED MINIMUM YIELD STRENGTH OF 58000 PSI
8. PIT RUN GRAVEL WILL NOT BE ACCEPTABLE.
9. ALL REINFORCING CHAIRS SHALL BE PLASTIC
10. ALL FORM OIL TO BE NON-STAINING MINERAL OIL, FREE OF KEROSENE.
11. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A1064.
12. VIBRATE ALL CONCRETE TO ENSURE THAT CONCRETE IS FREE FROM VOIDS AND OTHER DEFECTS.
13. MOIST CURE ALL CONCRETE 7 DAYS.
14. IN HOT OR COLD WEATHER CONDITIONS TAKE ADDITIONAL PRECAUTIONS AS PER ACI 305 OR 306 RESPECTIVELY.
15. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



LOG PILE 3.2 - PAD MOUNTED - PIP

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

F00462 - WHITE OAK
F00464 - WESTERN RED CEDAR

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

DATE DOCUMENT RELEASED 2024-07-15
DOCUMENT NUMBER: 1079305-R2

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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CSA SPECIFICATIONS (FOR INSTALLATIONS AT CANADIAN SITES ONLY)

LOG PILE 3.2 - PAD MOUNTED - PIP

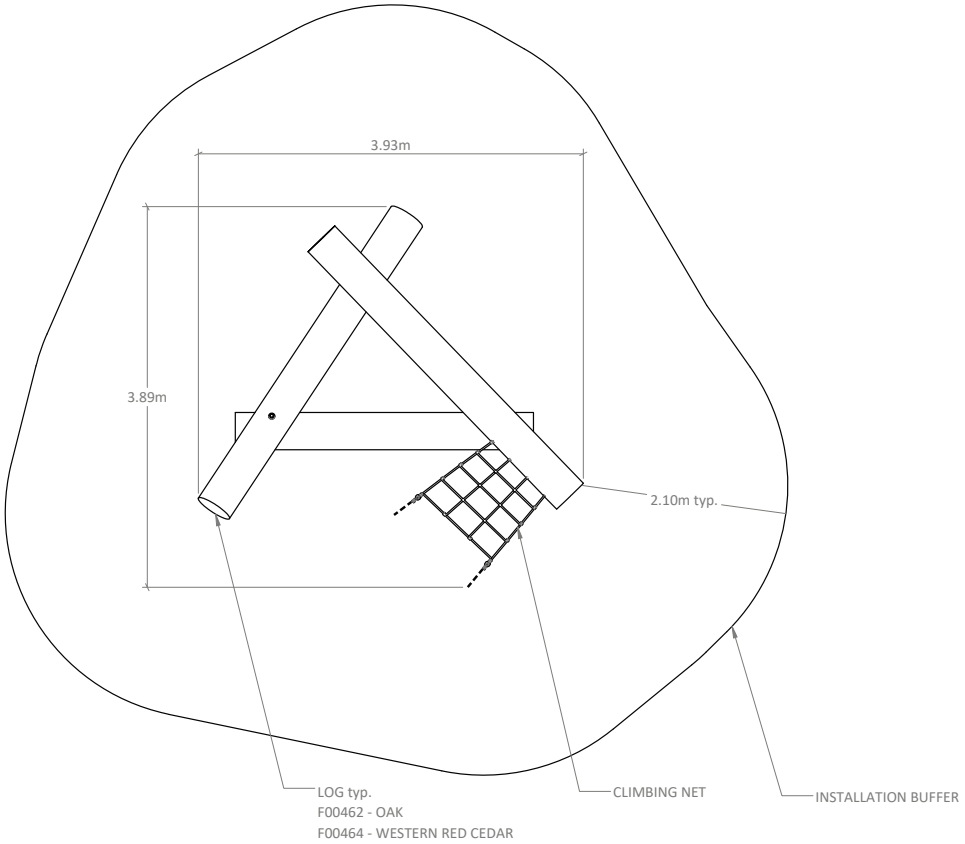
SPECIFICATIONS

INTENDED USER AGE GROUP: 18 m to 5 y
MAXIMUM HEIGHT OF STRUCTURE: 0.99 m
MAXIMUM DESIGNATED FALL HEIGHT: 0.99 m
AREA OF SURFACING: 46.3.0 m²
WEIGHT: 770 kg

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.

The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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ASTM SPECIFICATIONS (FOR INSTALLATIONS AT U.S. SITES ONLY)

LOG PILE 3.2 - PAD MOUNTED - PIP

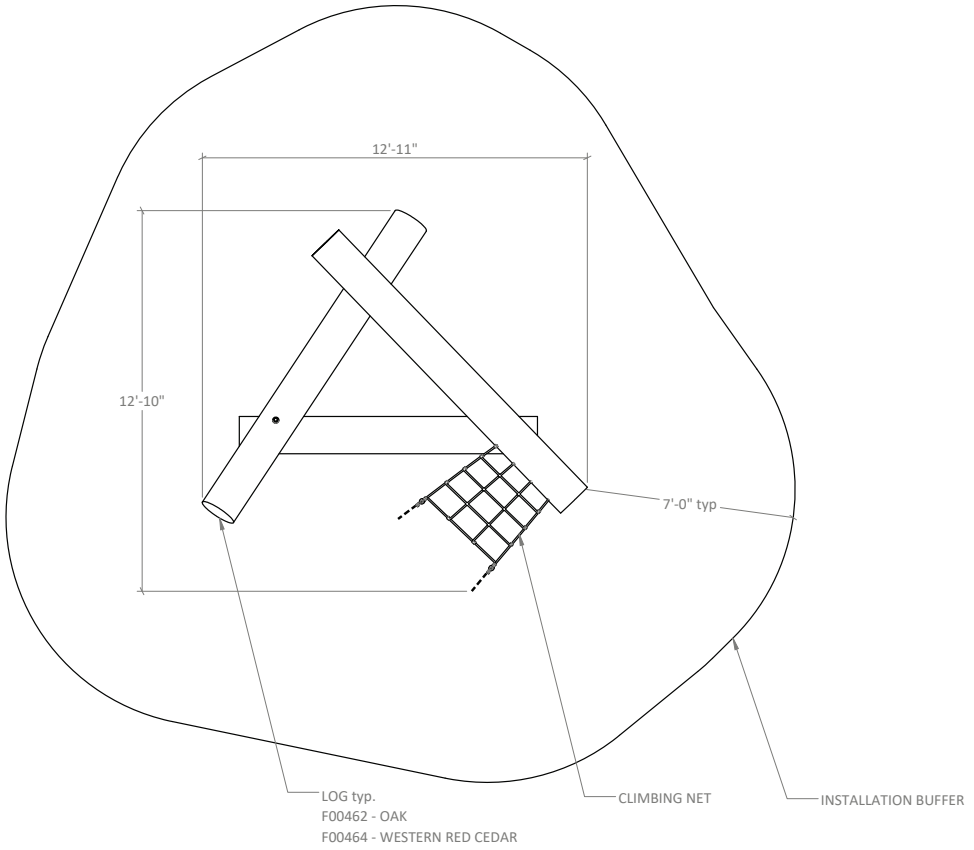
SPECIFICATIONS

INTENDED USER AGE GROUP: 2 y to 5 y
MAXIMUM HEIGHT OF STRUCTURE: 3'-3"
MAXIMUM DESIGNATED FALL HEIGHT: 3'-3"
AREA OF SURFACING: 507 ft²
WEIGHT: 1700 lb

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.

The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.



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PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.

This product might be shipped bundled with other parts or in crates. Review the separate project "SHIPPING PLAN" document so you can plan for truck access and equipment required for unloading.

If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both metres and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

- Log Jam Countersink (Counterbore drill bit, 2-5/8" dia)

TOOLS THE INSTALLER NEEDS TO SUPPLY

- High torque drill
- Hammer drill
- 1/2" impact driver
- 3/4" impact socket
- 1/2" ratcheting socket wrench
- 15/16" socket
- 1-5/16" socket
- T40 drive bit
- Wood auger drill bit, 1" x 18"
- Wood drill bit, 3/16" x 6"
- Concrete drill bit, 1/2" x 8"
- Angle grinder (with course 24 grit sanding disks and metal cut off disks)
- Transit or Laser Level
- Rigging and lifting straps

EQUIPMENT THE INSTALLED NEEDS TO SUPPLY

- Machine to lift and position heaviest element. 12' log, approximately 260 kg [570 lbs

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 3
Typical total person-hours to install: 36 + concrete cure time

Time breakdown:
- 4 hours x 3 people for excavation and pouring concrete
- Time for concrete cure
- 8 hours x 3 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

- Threadmate threadlocker Vibra-Tite VC-3 (or equal)
- Concrete and reinforcing steel as specified in this package

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

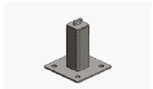
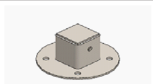
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SUPPLIED PARTS

MAKE SURE YOU HAVE ALL THE PARTS

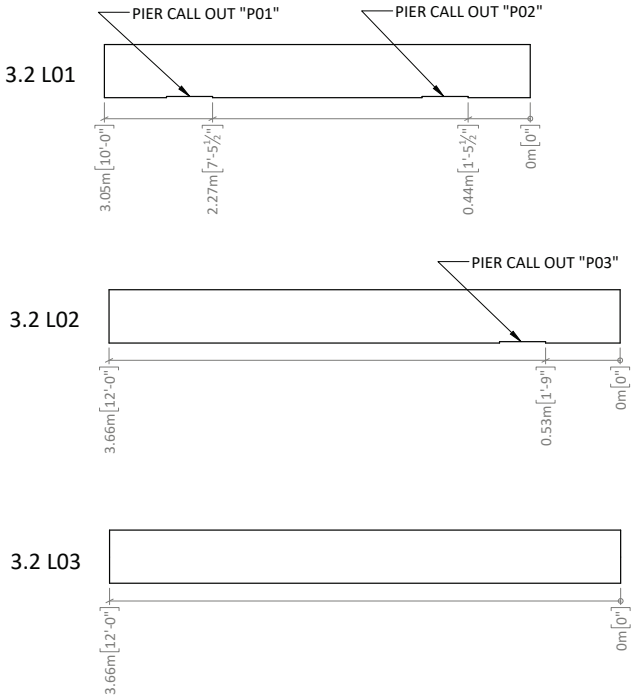
Examine the equipment and ensure you have all the required parts listed in the tables below.

For F00462, logs to be Oak.
For F00464, logs to be Western Red Cedar.

PART IMAGE	ITEM NO	PART NO	DESCRIPTION	QTY.
SEE IMAGE THIS SHEET	1		Log "3.2 L01" with Pivot Hinges	1
SEE IMAGE THIS SHEET	2		Log "3.2 L02" with Pivot Hinge	1
SEE IMAGE THIS SHEET	3		Log "3.2 L03" with Eye Bolts	1
	4	B00022	CLIMBING NET ATTACHMENT POST - SURFACE MOUNT	2
	5	B00029	Bracket Pivoting Hinge Plate	3
	6	B00030-12	Bracket Pivoting Base 12IN	3
SEE DETAIL SD-21B AT BACK OF THIS PACKAGE	7	B00119	Chain Plate Assembly	4
	8	H10642V	Hex Cap Screw 5/8-11 x 5 1/2 SS	3
	9	H16685	WOOD SCREW, WASHER HEAD, M8x100, SS	16*

PART IMAGE	ITEM NO	PART NO	DESCRIPTION	QTY.
	10	H30059V	Washer 5/8" x 1-1/2" SS	6
	11	H40013	Hex Nut 5/8-11 SS	3
SEE DETAIL SD-57A AND SD-57B AT BACK OF THIS PACKAGE	12	H50028	Log Pile Connection Kit	5
NO IMAGE	13	H60001	WELDED CHAIN 316 SS 0.375IN X 36IN LONG	2
	14	H60018	Quick Link 3/8" SS 316	2
	15	H60020	Titen HD 1/2" x 5" Concrete Screw	20
	16	M00233	NET - LOG PILE 3.2	1
	17	T00156	Log Jam Countersink Set	1

IMAGES OF FASTENERS IN THESE TABLES ARE REPRESENTATIONAL TO HELP IDENTIFY PARTS.
* INCLUDES 4 EXTRA PIECES



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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FINISHED PRODUCT

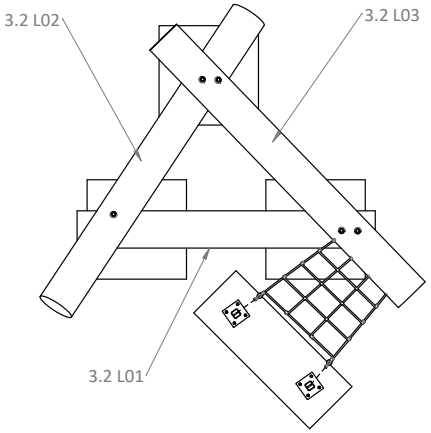
LOG PILE 3.2 - PAD MOUNTED - PIP

WHAT THE FINISHED PRODUCT LOOKS LIKE

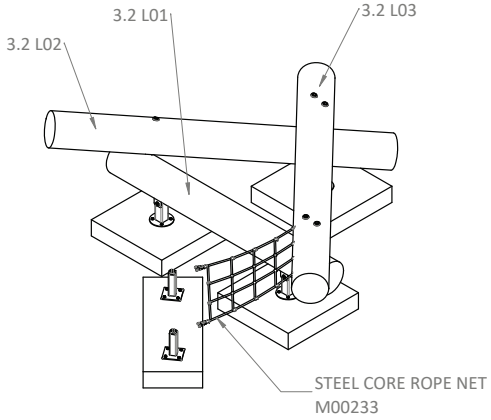
3.2 L01-L03 are logs supplied by Earthscape, cut to length, sanded smooth and flats added to receive pivot brackets.

Four poured-in-place concrete pads are used to anchor the log pivot base brackets and the ends of the climbing net. The concrete pads are to be provided by the installer.

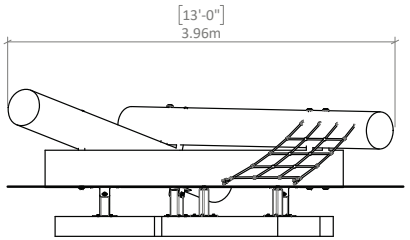
Dimensions shown are approximate. Actual dimensions after installation may differ due to varying diameters and irregularities of the logs.



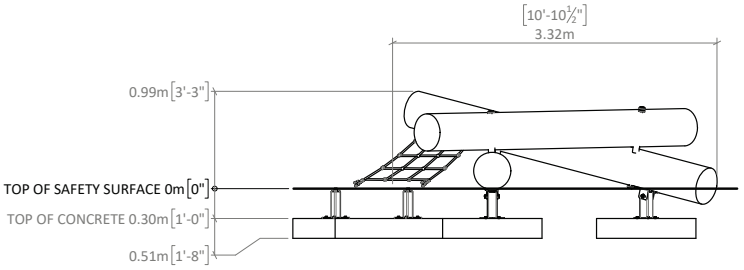
PLAN VIEW



ISOMETRIC VIEW



FRONT VIEW



RIGHT SIDE VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE BRACKETS

LOG PILE 3.2 - PAD MOUNTED - PIP

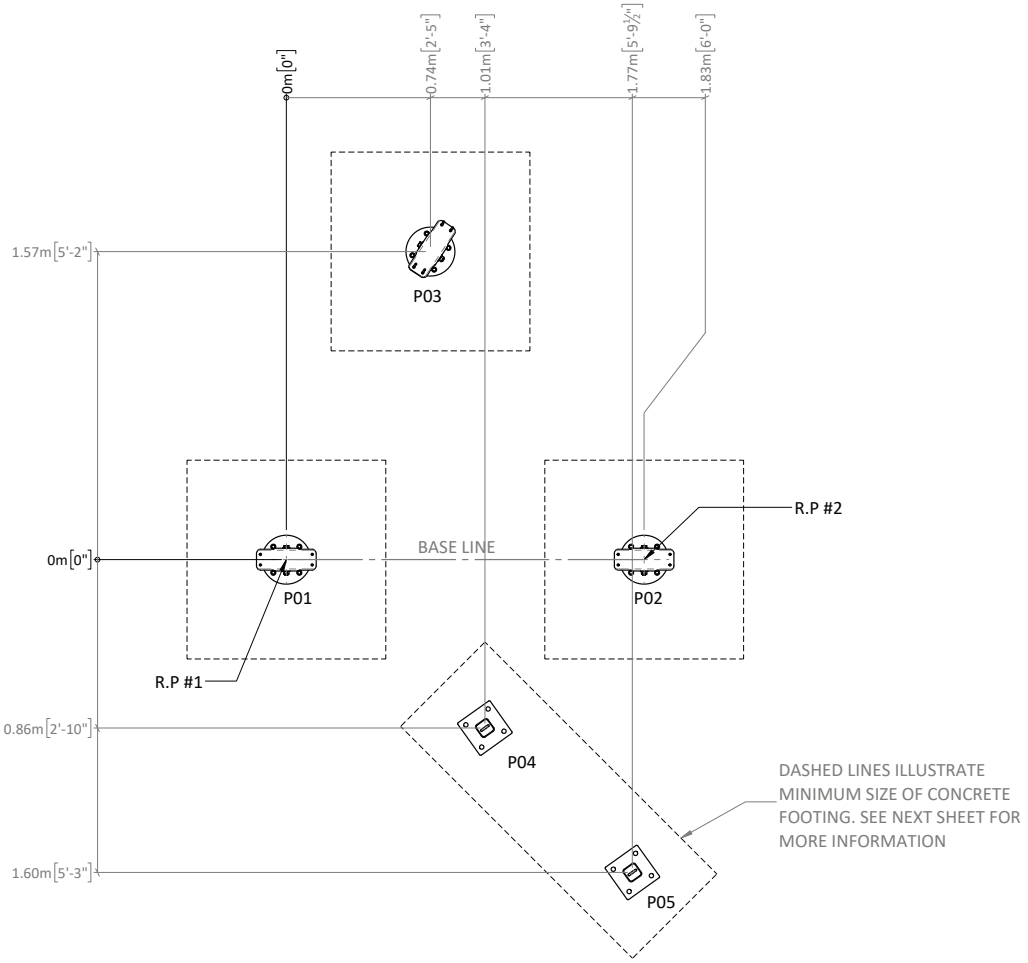
STEP 1 - LOCATING THE EQUIPMENT BRACKETS

Layout and mark the location of the 2 equipment Reference Points on your site. The location of these points relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished play surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

Layout and mark centres of other brackets based off the 2 Reference Points. Refer to Bracket Plan View and Bracket Locations Table on this sheet for details.

BRACKET LOCATIONS		
BRACKET LABEL	**FROM R.P. #1**	**FROM R.P. #2**
P01	N.A.	[6'-0"] 1.83m
P02	[6'-0"] 1.83m	N.A.
P03	[5'-8½"] 1.74m	[6'-3½"] 1.92m
P04	[4'-4½"] 1.33m	[3'-10½"] 1.18m
P05	[7'-10"] 2.38m	[5'-3"] 1.60m



BRACKET PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE FOUNDATIONS

LOG PILE 3.2 - PAD MOUNTED - PIP

STEP 2 - EXCAVATE FOR CONCRETE PADS

Excavate and prepare holes for depth and dimensions of pads as indicated in detail SD-001E this sheet.

The foundation detail provided in these instructions has been developed assuming typical soil conditions specified in general notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a registered engineer.

STEP 3 - POUR CONCRETE PADS

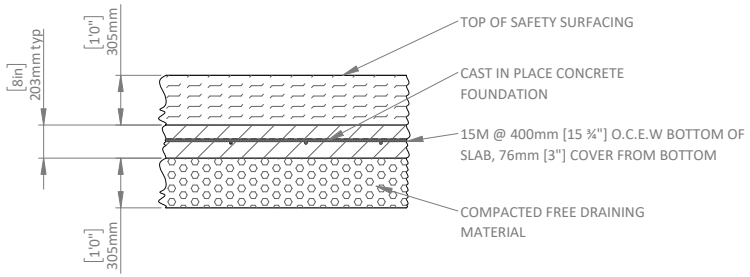
Pour concrete pads. Refer to "General Notes" sheet for concrete strength requirements.

Ensure top of concrete is 305mm [12"] below finished play surface.

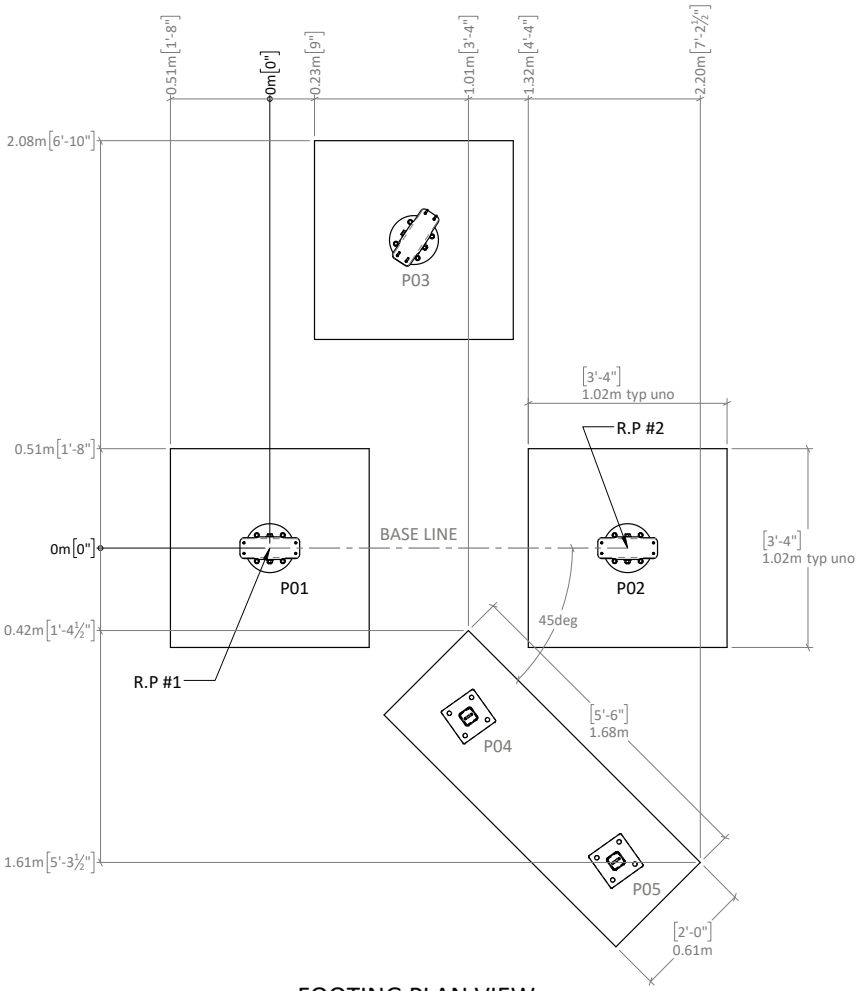
Allow concrete to cure prior to proceeding to steps 5-9.

FOUNDATION NOTES:

1. SEE "GENERAL NOTES" SHEET FOR GENERAL NOTES.
2. TOP OF CONCRETE TO BE SET AT 300mm [12"] BELOW TOP OF SURFACING UNO.
3. SLAB TO BEAR ON MATERIAL BELOW THE FROST DEPTH, OR ALTERNATIVELY ON 300mm [12"] OF FREE DRAINING AGGREGATE, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.



CONCRETE FOUNDATION DETAIL SD-001E



FOOTING PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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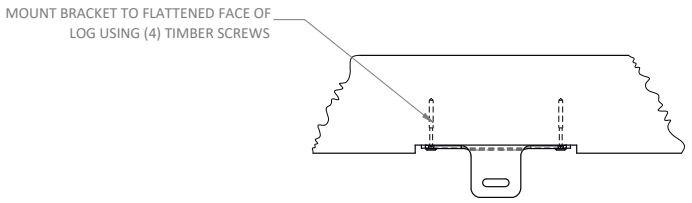
INSTALL PIVOT BRACKETS TO LOGS

STEP 4 - SECURE PIVOTING HINGE PLATES TO LOGS

Secure the Bracket Pivoting Hinge Plate, to the pre-fabricated flat spots on the bottom of logs 3.2-L01 and 3.2-L02 as per the detail on this sheet.

STEP 5 - ASSEMBLE PIVOT BRACKET BASE TO HINGE PLATES

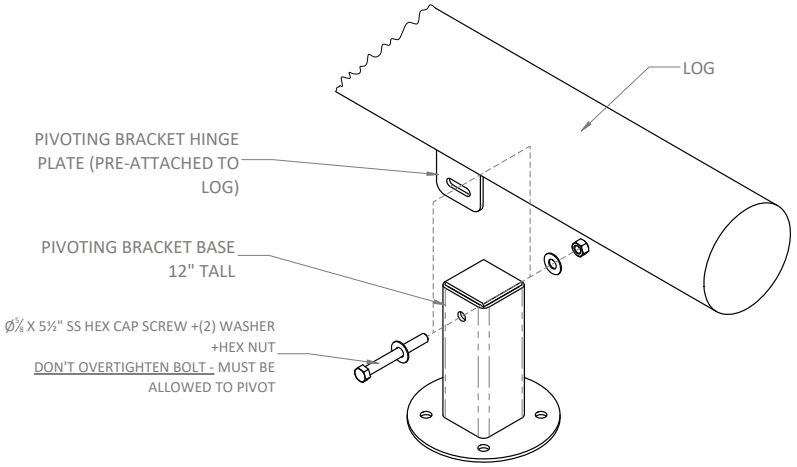
Assemble the Pivot Bracket Base to Pivoting Hinge Plates as per view on this sheet. Ensure nut is not overtightened. Top plate must be able to pivot.



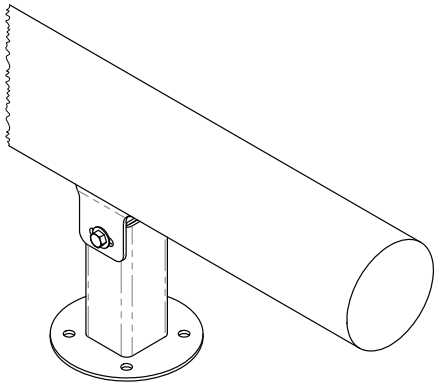
HARDWARE REFERENCE LIST (PER CONNECTION)

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	B00029	BRACKET PIVOTING HINGE PLATE	1
2	H16685	ASSY SK A2 8mm X 100mm SS	4

BRACKET PIVOTING HINGE PLATE DETAIL



EXPLODED VIEW



ASSEMBLED

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

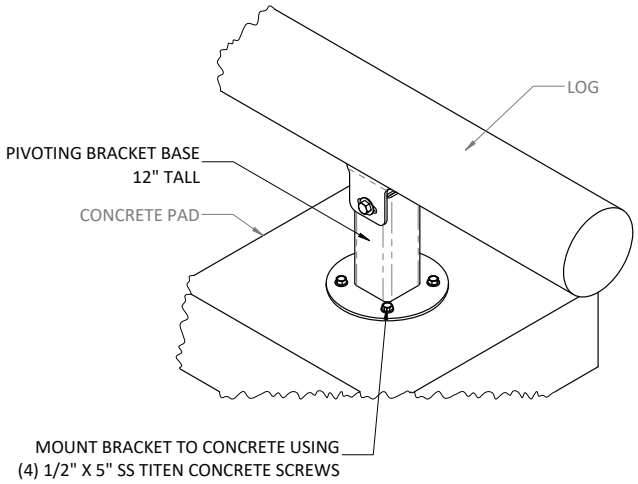
PROPERTY OF EARTHSCAPE PLAY INC. - DO NOT COPY. DO NOT DISTRIBUTE.

STEP 6 - LOCATE AND SECURE LOG "3.2 L01"

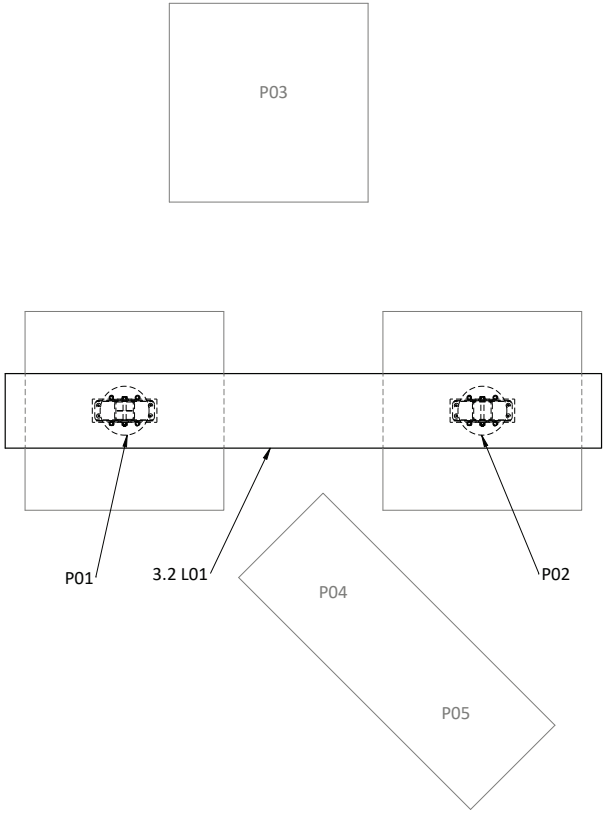
Once pads have cured, position log "3.2 L01", using the bracket labels affixed to the hinge plates to match the associated bracket location (e.g. "P01"). Position the logs so that the pivot bracket base is as centered as possible on bracket location (See sheet 7 for Bracket locations).

Secure (2) pivot bracket bases to the pads as per detail on this sheet.

Ensure anchor screws are a minimum of 150mm [4"] away from edge of concrete.



PIVOT BRACKET TO CONCRETE CONNECTION - typ.



LOG LAYOUT - COURSE 1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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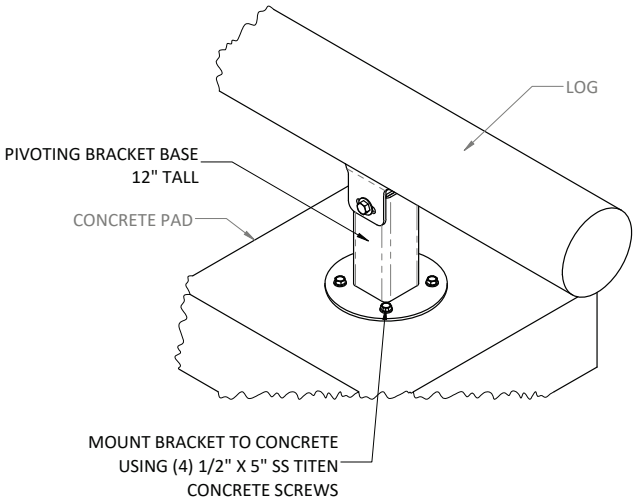
STEP 7 - LOCATE AND SECURE LOGS "3.2 L02"

Position log "3.2 L02", using the bracket label affixed to the hinge plate to match the associated bracket locations (e.g. "P02"). Position the log so that the pivot bracket base is as centered as possible on bracket location (See sheet 7 for Bracket locations).

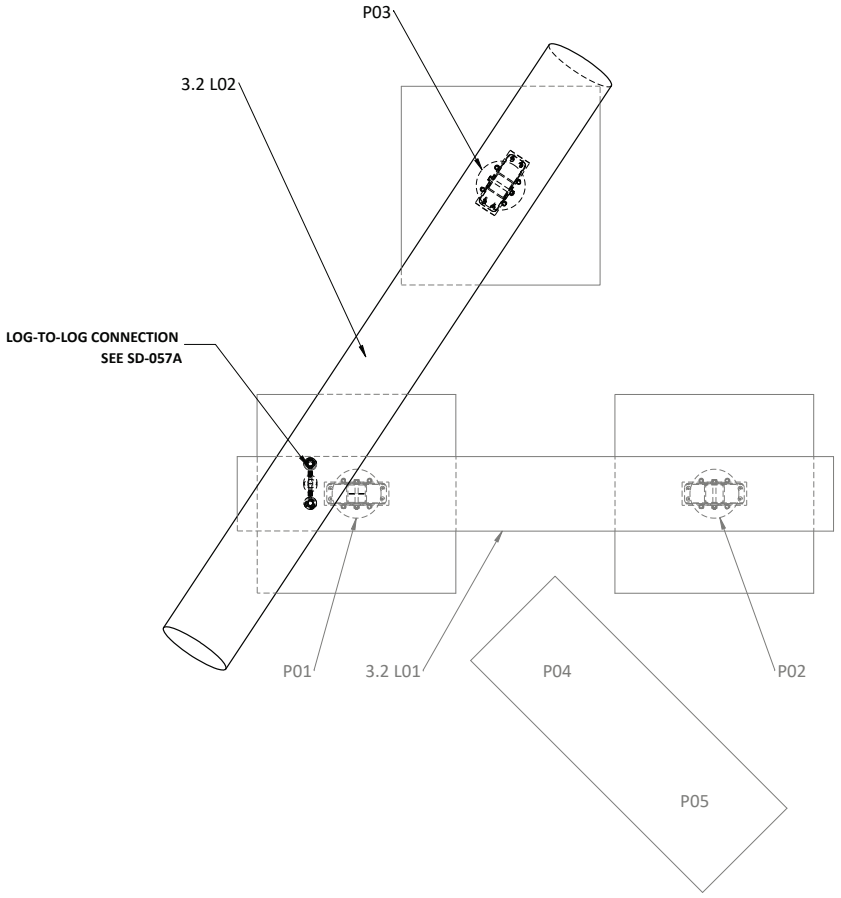
Position high end of log "3.2 L02" on top of log "3.2 L01" approximately as shown (log shapes and lengths may differ slightly due to irregularities). Connect logs per detail SD-057A at back of this package.

Secure (1) pivot bracket base to the pad as per detail on this sheet.

Ensure anchor screws are a minimum of 150mm [4"] away from edge of concrete.



PIVOT BRACKET TO CONCRETE CONNECTION - typ.



LOG LAYOUT - COURSE 2

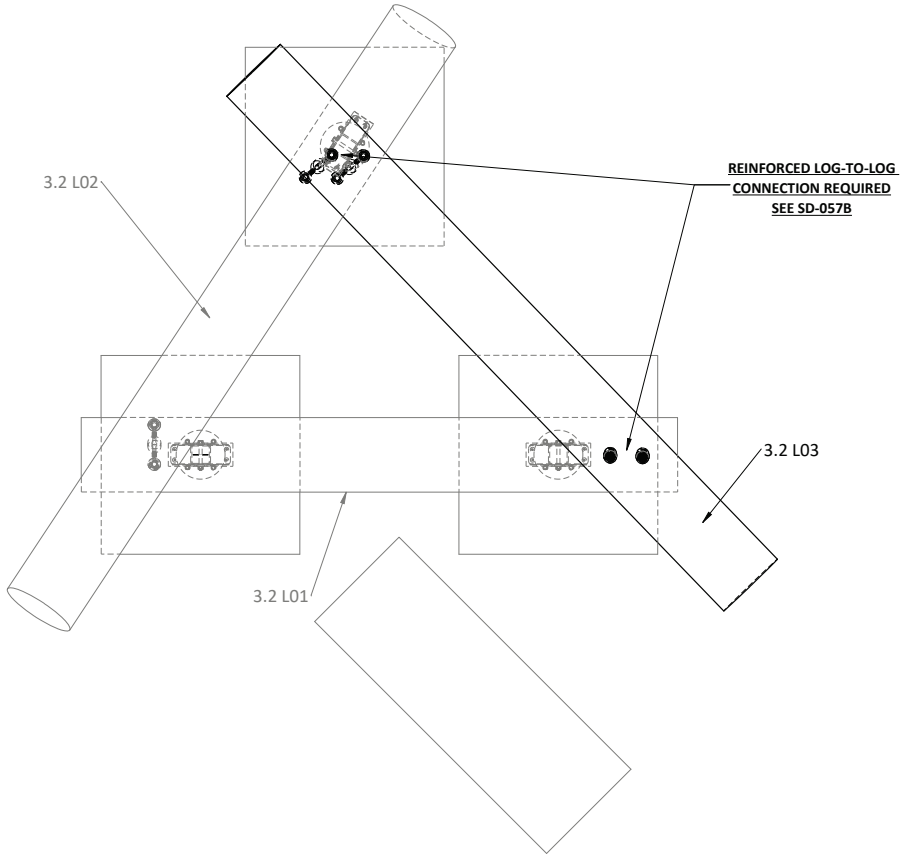
NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE AND INSTALL LOGS - COURSE 3 OF 3

STEP 8 - LOCATE AND SECURE LOGS "3.2 L03"

Position log "3.2 L03" on top of logs "3.2 L01" & "3.2 L03" approximately as shown (log shapes and lengths may differ slightly due to irregularities). Connect logs per detail SD-057B at back of this package.



LOG LAYOUT - COURSE 3

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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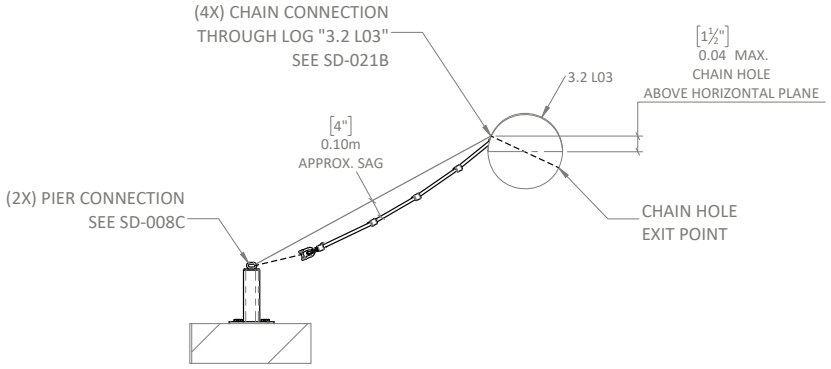
INSTALL NET

STEP 9 - INSTALL NET TO LOG "3.2 L03"

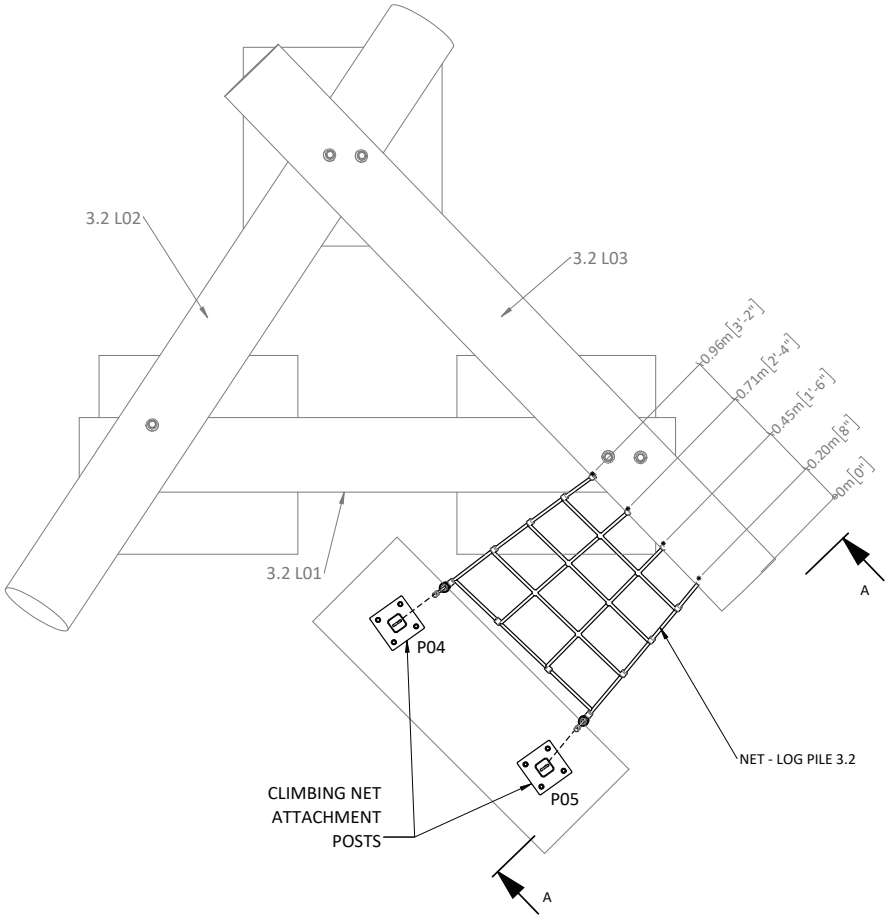
Connect net to log "3.2 L03" per detail SD-021B at the back of this package.

STEP 10 - INSTALL NET POSTS

Install (2) climbing net attachment posts to pad "P04" and "P05", then secure net to posts, per detail SD-008C at the back of this package.



SECTION A-A



NET LAYOUT

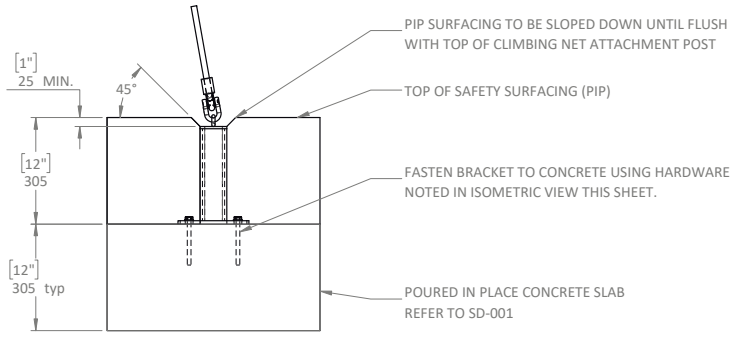
NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

PROPERTY OF EARTHSCAPE PLAY INC. - DO NOT COPY. DO NOT DISTRIBUTE.

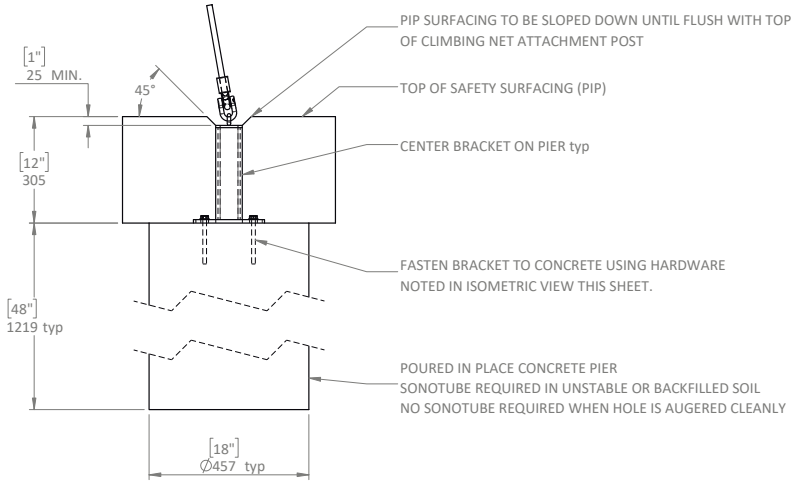
SD-008C

LOG PILE 3.2 - PAD MOUNTED - PIP

NOTES:
1. SEE "GENERAL NOTES" PAGE FOR ALL GENERAL NOTES
2. THIS DETAIL IS ONLY INTENDED TO SHOW AN ISOLATED SECTION. REFER TO THE APPROPRIATE DETAILS AS NOTED IN THE CONSTRUCTION PACKAGE FOR ALL OTHER INFORMATION
3. THE "CLIMBING NET ATTACHMENT POST" MAY BE INSTALLED ON EITHER CONCRETE SLAB OR CONCRETE PIER USING THE SAME CONNECTION DETAIL



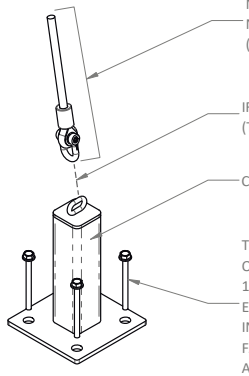
OPTION 1 - INSTALL ON CONCRETE SLAB



OPTION 2 - INSTALL ON CONCRETE PIER

HARDWARE REFERENCE LIST (PER CONNECTION)

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	B00022	CLIMBING NET ATTACHMENT POST - SURFACE MOUNT	1
2	H60020	TITEN HD 1/2" X 5" CONCRETE SCREW	4



INSTALLATION PROCEDURE - **WITH** CHAIN AND QUICK LINK
1. ANCHOR CLIMBING NET ATTACHMENT POST TO CONCRETE USING HARDWARE NOTED ON THIS PAGE.
2. SEE INSTALLATION PACKAGE FOR DIMENSIONS TO LOCATE ATTACHMENT POSTS.
3. ADD CHAIN TO NET END FIXING WITH D-SHACKLE (PROVIDED WITH NET).
4. ATTACH CHAIN TO CLIMBING NET ATTACHMENT POST USING QUICKLINK. REFER TO SD-047 FOR NET/ROPE TENSIONING REQUIREMENTS. ADJUST LENGTH OF CHAIN AS REQUIRED TO ACHIEVE DESIRED TENSION

NET TO FOUNDATION CONNECTION - IN PIP

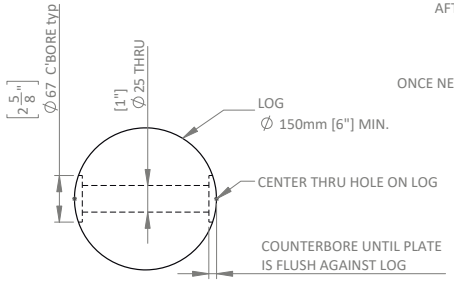
NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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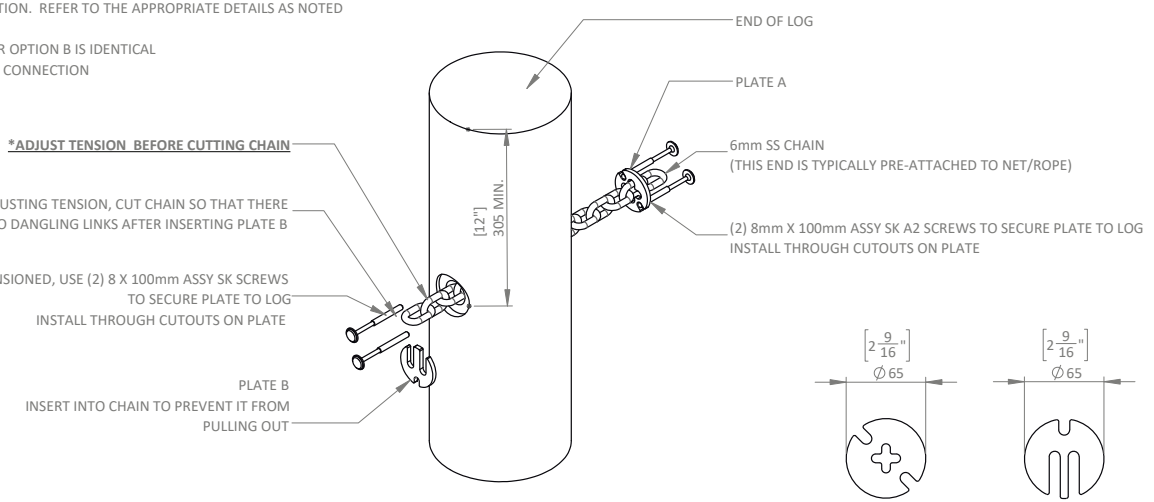
SD-021B

LOG PILE 3.2 - PAD MOUNTED - PIP

NOTES:
1. THIS CONNECTION DETAIL IS ONLY INTENDED TO SHOW AN ISOLATED SECTION. REFER TO THE APPROPRIATE DETAILS AS NOTED IN THE CONSTRUCTION PACKAGE FOR ALL OTHER INFORMATION
2. PROCESS REQUIRED TO MAKE THIS CONNECTION FOR EITHER OPTION A OR OPTION B IS IDENTICAL
3. CHAIN MAY BE SWAGED DIRECTLY TO NET OR REQUIRE SS D-SHACKLE FOR CONNECTION



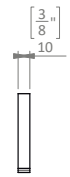
HOLE DETAIL



EXPLODED VIEW

PLATE A (INNER PLATE)

PLATE B (OUTER PLATE)



B00119 KIT BOM

ITEM NO.	PartNo	DESCRIPTION	QTY.
1	B00061	6mm Chain Connection Inner Plate	1
2	B00062	6mm Chain Connection Outer Plate	1
3	H16685	ASSY SK A2 8mm x 100mm SS	5

*CHAIN NOT INCLUDED IN KIT B00119

PROCEDURE:
1. FASTEN PLATE A AND PASS CHAIN THROUGH CENTER HOLE
2. PULL CHAIN THROUGH LOG/TIMBER AND SECURE IN PLACE(WITH STRAPS OR OTHER)
3. CUT CHAIN TO LENGTH
4. INSERT PLATE B INTO LAST LINK
5. RELIEVE TENSION
6. FASTEN PLATE B

6mm CHAIN PLATE CONNECTION

DATE DOCUMENT RELEASED 2024-07-15
DOCUMENT NUMBER: 1079305 - R2

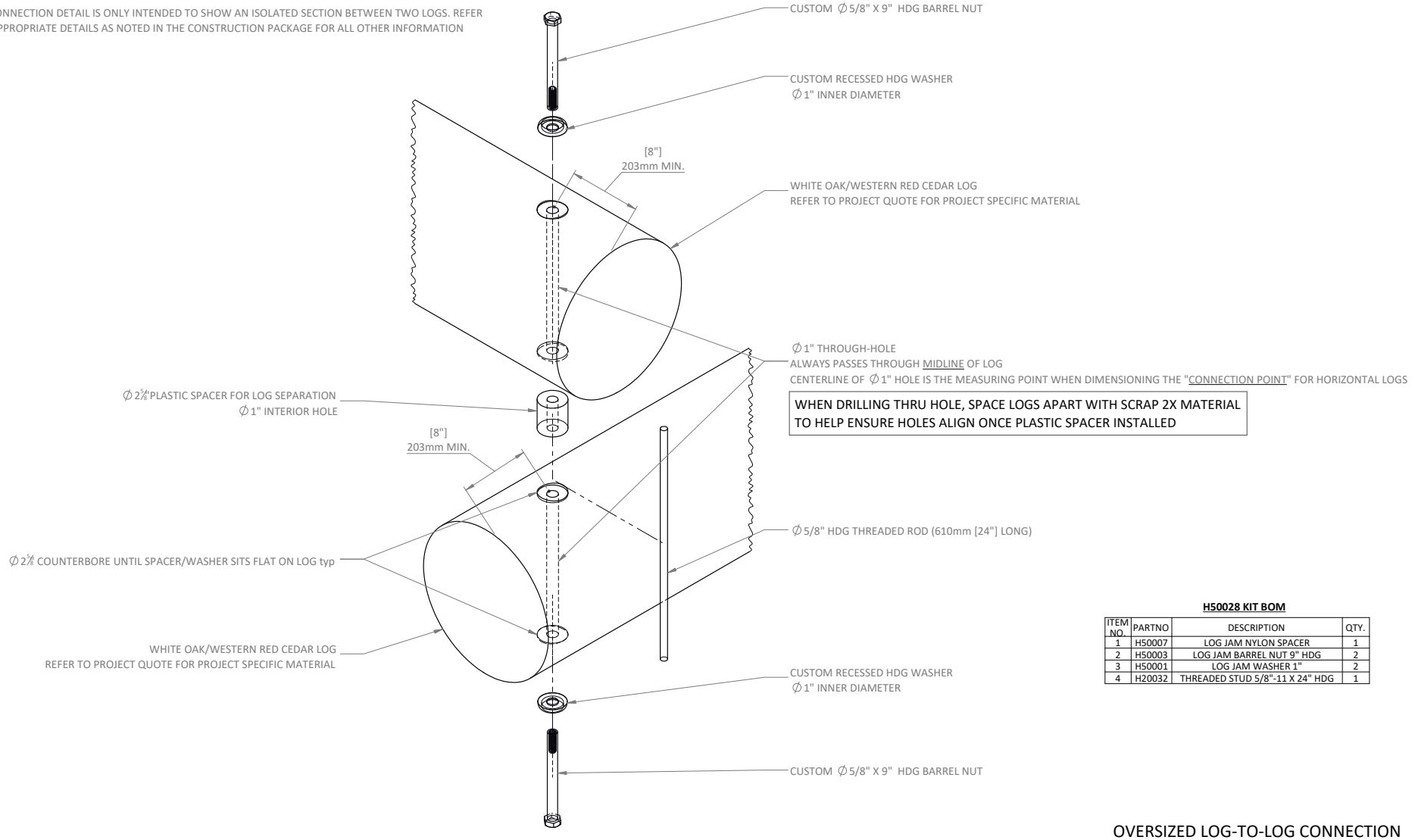
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SD-057A

LOG PILE 3.2 - PAD MOUNTED - PIP

NOTES:
1. THIS CONNECTION DETAIL IS ONLY INTENDED TO SHOW AN ISOLATED SECTION BETWEEN TWO LOGS. REFER TO THE APPROPRIATE DETAILS AS NOTED IN THE CONSTRUCTION PACKAGE FOR ALL OTHER INFORMATION



H50028 KIT BOM

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	H50007	LOG JAM NYLON SPACER	1
2	H50003	LOG JAM BARREL NUT 9" HDG	2
3	H50001	LOG JAM WASHER 1"	2
4	H20032	THREADED STUD 5/8"-11 X 24" HDG	1

OVERSIZED LOG-TO-LOG CONNECTION

DATE DOCUMENT RELEASED 2024-07-15
DOCUMENT NUMBER: 1079305 - R2

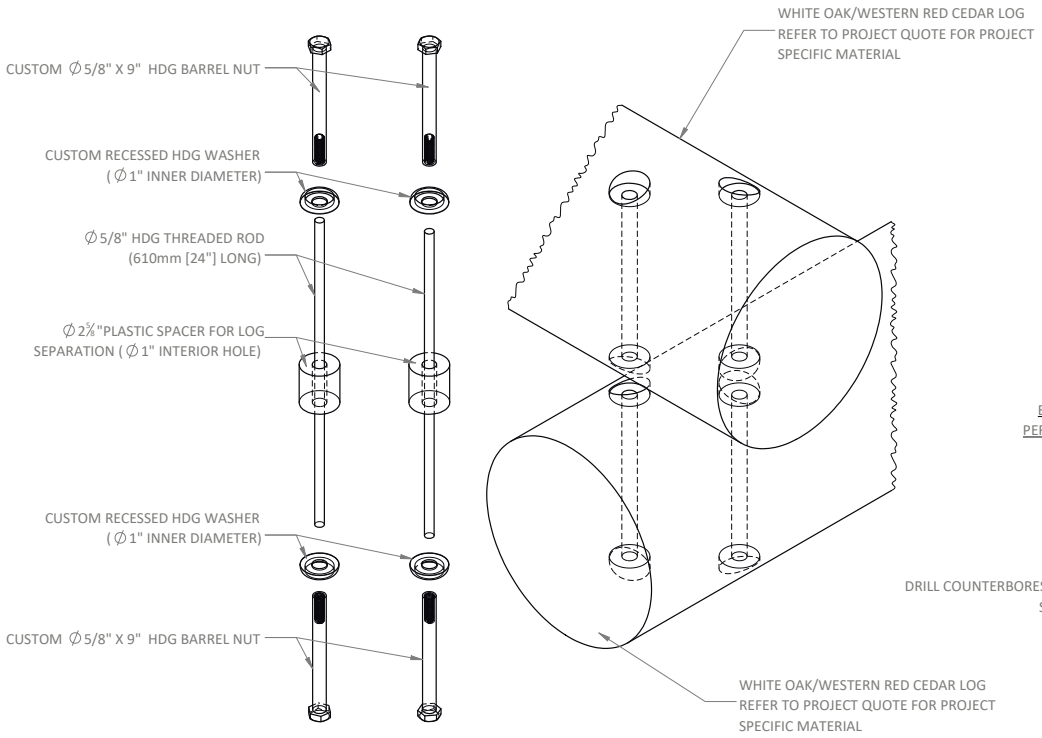
NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

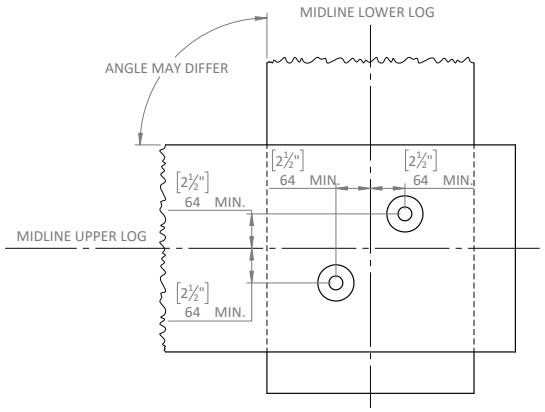
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SD-057B

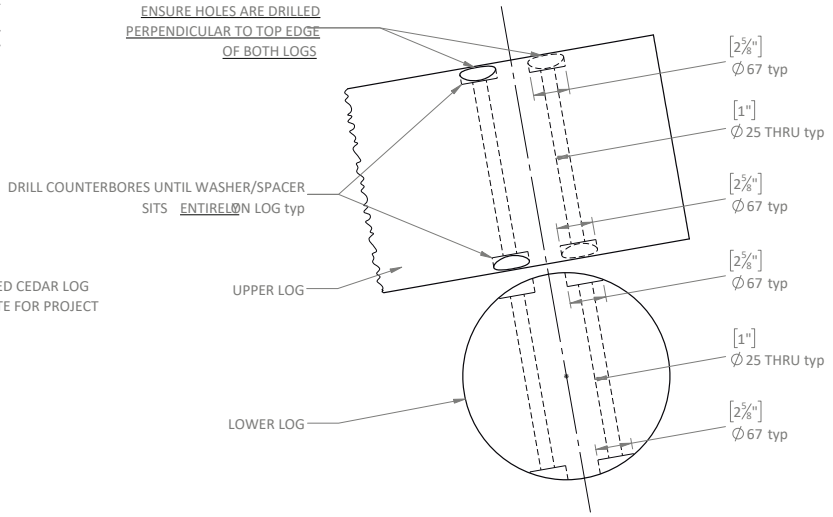
LOG PILE 3.2 - PAD MOUNTED - PIP

NOTES:
1. THIS CONNECTION DETAIL IS ONLY INTENDED TO SHOW AN ISOLATED SECTION BETWEEN TWO LOGS. REFER TO THE APPROPRIATE DETAILS AS NOTED IN THE CONSTRUCTION PACKAGE FOR ALL OTHER INFORMATION





***ENSURE MIN. DIMENSIONS ARE MAINTAINED REGARDLESS OF POSITION OF UPPER AND LOWER LOGS RELATIVE TO EACH OTHER**



WHEN DRILLING THRU HOLES, SPACE LOGS APART WITH SCRAP 2X MATERIAL TO HELP ENSURE HOLES ALIGN ONCE PLASTIC SPACER INSTALLED

H50028 KIT BOM

ITEM NO.	PARTNO	DESCRIPTION	QTY.
1	H50007	LOG JAM NYLON SPACER	1
2	H50003	LOG JAM BARREL NUT 9" HDG	2
3	H50001	LOG JAM WASHER 1"	2
4	H20032	THREADED STUD 5/8"-11 X 24" HDG	1

TWO "H50028 KITS" ARE REQUIRED TO FABRICATE THIS CONNECTION DETAIL

REINFORCED OVERSIZED LOG-TO-LOG CONNECTION

DATE DOCUMENT RELEASED 2024-07-15
DOCUMENT NUMBER: 1079305 - R2

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GENERAL NOTES

LOG PILE 3.2 - PAD MOUNTED - PIP

FOR CANADIAN INSTALLATION SITES USE THESE NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY CSA Z614. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN METRES (m) UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/CSA-Z614 (MOST RECENT EDITION) "CHILDREN'S PLAYSPACES AND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1/2
2. ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH CAN/CSA A23.1/2 INCLUDING FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER.
3. REINFORCING STEEL SHALL COMPLY WITH CAN/CSA G40.18
4. DO NOT ADD WATER TO CONCRETE ONSITE.
5. ENSURE A MINIMUM COVER OF 75mm TO THE GROUND IN ALL BELOW GRADE CONCRETE.
6. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
7. CONCRETE REINFORCING TO DEFORMED MINIMUM YIELD STRENGTH OF 400 MPa
8. PIT RUN GRAVEL WILL NOT BE ACCEPTABLE.
9. ALL REINFORCING CHAIRS SHALL BE PLASTIC
10. ALL FORM OIL TO BE NON-STAINING MINERAL OIL, FREE OF KEROSENE.
11. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A1064.
12. VIBRATE ALL CONCRETE TO ENSURE THAT CONCRETE IS FREE FROM VOIDS AND OTHER DEFECTS.
13. MOIST CURE ALL CONCRETE 7 DAYS.
14. IN HOT OR COLD WEATHER CONDITIONS TAKE ADDITIONAL PRECAUTIONS AS PER CAN/CSA A23.1/2.
15. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN FEET-INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

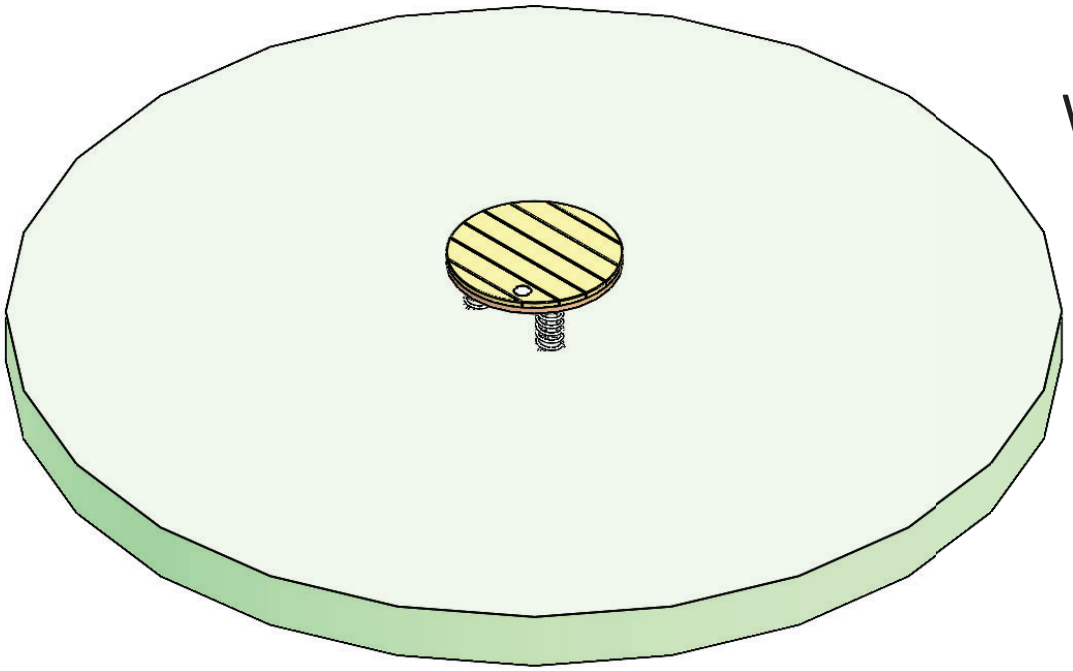
1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI-301
2. ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH ASTM A615 AND ACI-301 INCLUDING FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER.
3. REINFORCING STEEL SHALL COMPLY WITH ASTM A615
4. DO NOT ADD WATER TO CONCRETE ONSITE.
5. ENSURE A MINIMUM COVER OF 3" TO THE GROUND IN ALL BELOW GRADE CONCRETE.
6. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
7. CONCRETE REINFORCING TO DEFORMED MINIMUM YIELD STRENGTH OF 58000 PSI
8. PIT RUN GRAVEL WILL NOT BE ACCEPTABLE.
9. ALL REINFORCING CHAIRS SHALL BE PLASTIC
10. ALL FORM OIL TO BE NON-STAINING MINERAL OIL, FREE OF KEROSENE.
11. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A1064.
12. VIBRATE ALL CONCRETE TO ENSURE THAT CONCRETE IS FREE FROM VOIDS AND OTHER DEFECTS.
13. MOIST CURE ALL CONCRETE 7 DAYS.
14. IN HOT OR COLD WEATHER CONDITIONS TAKE ADDITIONAL PRECAUTIONS AS PER ACI 305 OR 306 RESPECTIVELY.
15. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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INSTALLATION INSTRUCTIONS

EARTHSCAPE COLLECTIONS



WOBBLE BOARD - ROUND (SMALL)

THESE INSTRUCTIONS APPLY TO THE FOLLOWING VERSIONS OF THIS PRODUCT:

F00216 - WOBBLE BOARD - ROUND (SMALL)

NOTE: COLOURS SHOWN ARE REPRESENTATIONAL AND MAY NOT BE THE SAME AS THOSE OF THE SUPPLIED PRODUCT

DATE DOCUMENT RELEASED 2023-01-24
DOCUMENT NUMBER: 1047881-R1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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CSA SPECIFICATIONS (FOR INSTALLATIONS AT CANADIAN SITES ONLY)

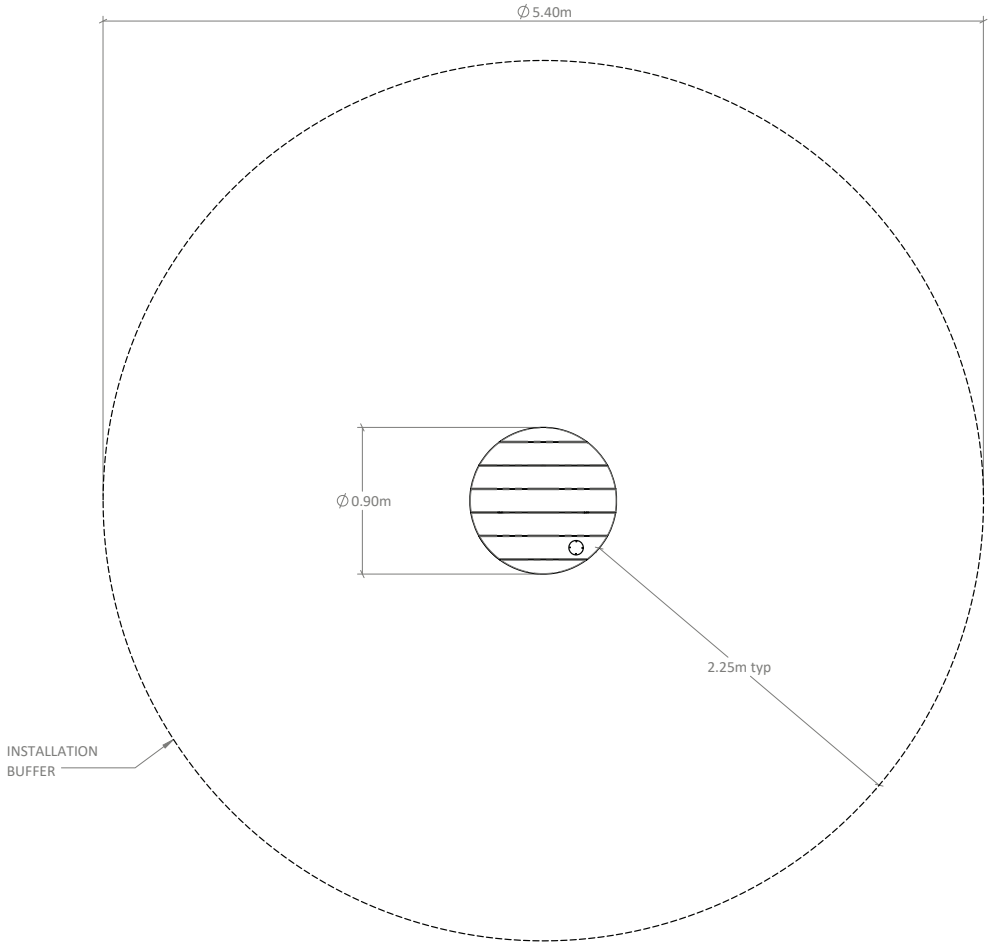
WOBBLE BOARD - ROUND (SMALL)

SPECIFICATIONS

INTENDED USER AGE GROUP: 5 to 12 y
MAXIMUM HEIGHT OF STRUCTURE: 0.37 m
MAXIMUM DESIGNATED FALL HEIGHT: 0.37 m
AREA OF SURFACING: 22.9 m²
WEIGHT: 81 kg

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.
The offset shown here includes a buffer beyond the CSA requirements to account for fabrication and material variation.



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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ASTM SPECIFICATIONS (FOR INSTALLATIONS AT U.S. SITES ONLY)

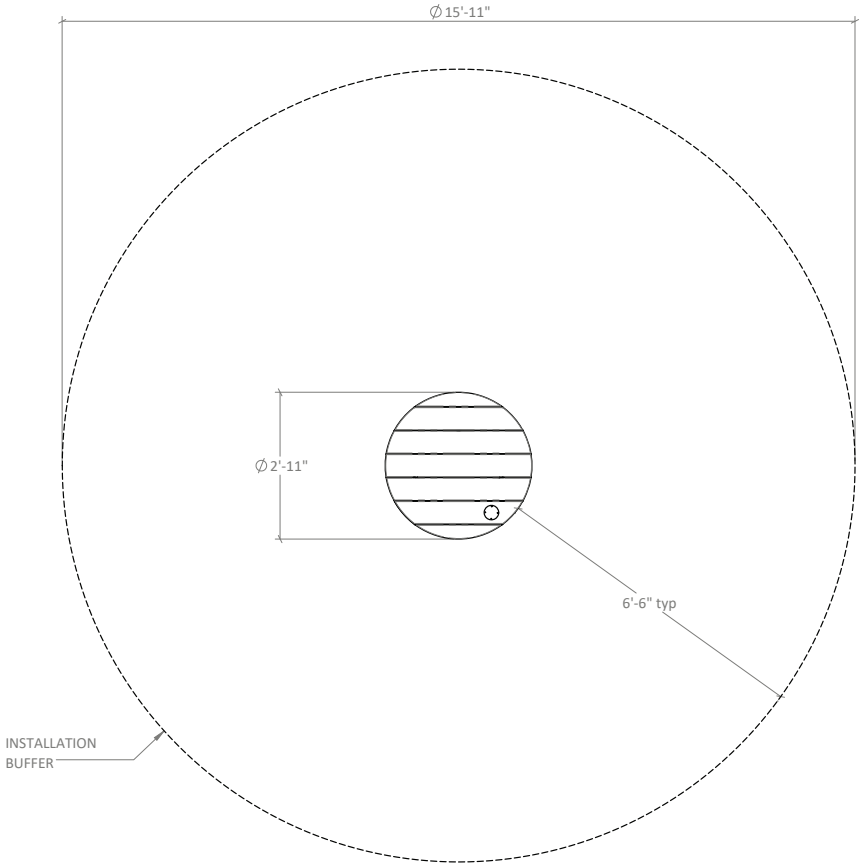
WOBBLE BOARD - ROUND (SMALL)

SPECIFICATIONS

INTENDED USER AGE GROUP: 5 m to 12 y
MAXIMUM HEIGHT OF STRUCTURE: 1'-3"
MAXIMUM DESIGNATED FALL HEIGHT: 1'-3"
AREA OF SURFACING: 200 ft²
WEIGHT: 179 lb

RECOMMENDED INSTALLATION BUFFER

Play equipment requires a variety of offsets to other elements in a playground. The plan view on this page shows the minimum recommended area needed for installing this piece of play equipment by itself. Combining this play equipment with other pieces should be reviewed by a person with a Certified Playground Safety Inspector training.
The offset shown here includes a buffer beyond the ASTM requirements to account for fabrication and material variation.



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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SETTING UP FOR SUCCESS

WOBBLE BOARD - ROUND (SMALL)

PLEASE READ ALL INSTRUCTIONS

Before starting to install this equipment be sure to read through and understand these instructions.

If you have any questions, contact your local dealer for assistance before proceeding.

MEASUREMENTS AND STANDARDS

Measurements have been provided in both meters and [feet-inches]. Ensure to follow standards noted for the location in which this play equipment is being installed. Those marked CSA are to be used in Canada and those marked ASTM to be used in the United States.

LIST OF ABBREVIATIONS

AYC = Alaskan Yellow Cedar
WRC = Western Red Cedar
DPS = Designated Play Surface
SS = Stainless Steel
HDG = Hot Dipped Galvanized
WWM = Welded Wire Mesh
TYP = Typical
C/W = Complete With
UNO = Unless Noted Otherwise
EWF = Engineered Wood Fiber
PIP = Poured-In-Place Rubber Surfacing
PT = Pressure Treated

TOOLS SUPPLIED WITH THIS PRODUCT

- No Tools Supplied

TOOLS THE INSTALLER NEEDS TO SUPPLY

- High torque drill
- Hammer drill
- 1/2" impact driver
- 3/4" impact socket
- 1/2" ratcheting socket wrench
- Concrete drill bit, 1/2" x 8"
- Angle grinder (with course 24 grit sanding disks and metal cut off disks)
- Transit or Laser Level
- Rigging and lifting straps

EQUIPMENT THE INSTALLER NEEDS TO SUPPLY

Machine to lift and position heaviest element.

- Pre-assembled Wobble Board Round (Small) +/-81 kg [179 lbs]

INSTALLER CREW AND TIME REQUIRED

Number of people needed: 2
Typical total person-hours to install: 20 + concrete cure time

Time breakdown:

- 6 hours x 2 people for excavation and pouring concrete
- Time for concrete cure
- 4 hours x 2 people for onsite fabrication and play equipment installation

MATERIALS THE INSTALLER NEEDS TO SUPPLY

- Threadmate threadlocker Vibra-Tite VC-3 (or equal)
- Concrete as per the specifications in this package

WARNINGS

These instructions do not provide specific guidance on the use of tools or the lifting and moving heavy objects. It is assumed that competent people are installing this product who are familiar with using the tools and equipment required and are knowledgeable and skilled at lifting and positioning heavy objects.

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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SUPPLIED PARTS

WOBBLE BOARD - ROUND (SMALL)

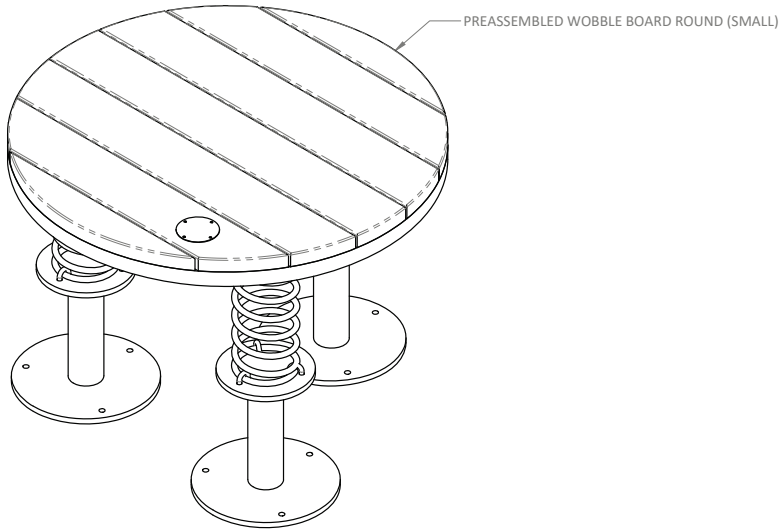
MAKE SURE YOU HAVE ALL THE PARTS

Examine the equipment and ensure you have all the required parts listed in the tables below.

See "As Shipped Page" to understand orientation of product as delivered to site.

PART IMAGE	ITEM NO.	PART NO.	DESCRIPTION	QTY.
	1	H60024	TITEN HD 3/8" X 5" CONCRETE SCREW SS	9
SEE IMAGE THIS SHEET	2	F00216	F00216 - WOBBLE BOARD - ROUND (SMALL)	1

IMAGES OF FASTENERS IN THIS TABLE ARE REPRESENTATIONAL TO HELP IDENTIFY PARTS.

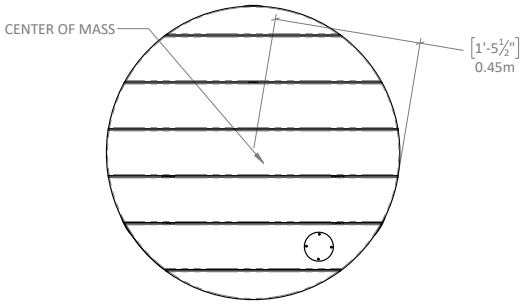


NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

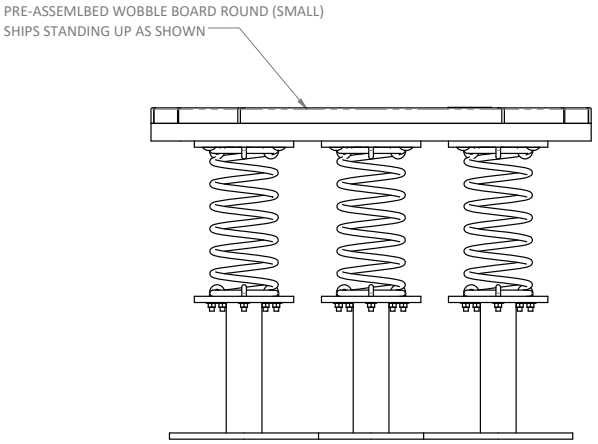
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AS SHIPPED

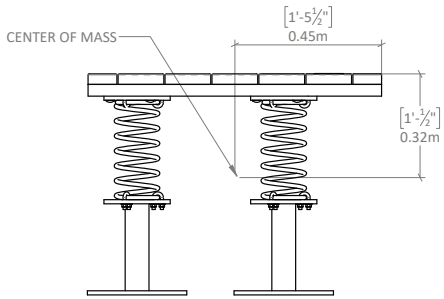
WOBBLE BOARD - ROUND (SMALL)



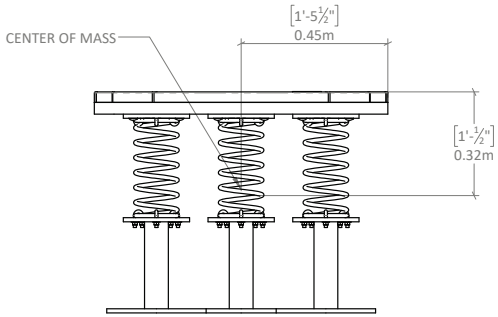
PLAN VIEW



AS SHIPPED ORIENTATION



SIDE VIEW



FRONT VIEW

CENTRE OF GRAVITY

DATE DOCUMENT RELEASED 2023-01-24
DOCUMENT NUMBER: 1047881 - R1

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

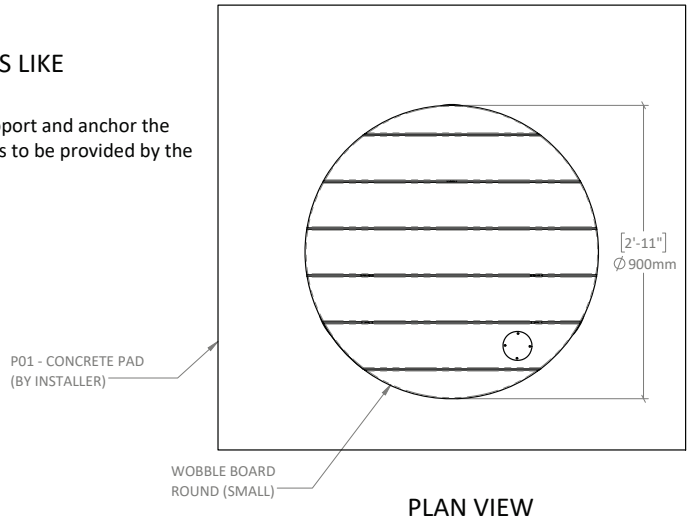
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FINISHED PRODUCT

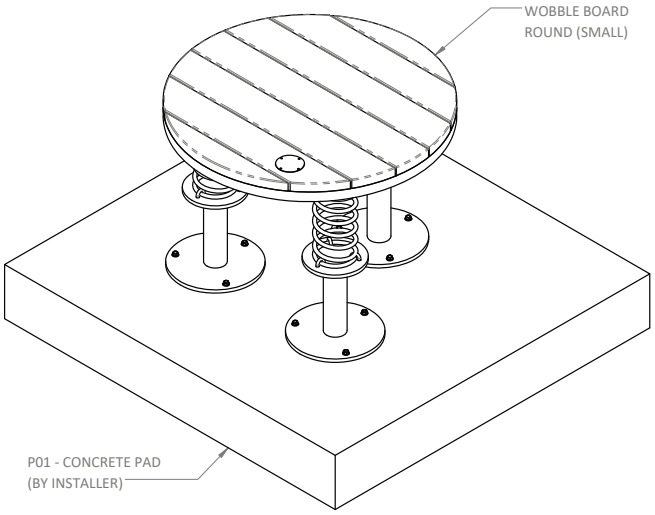
WOBBLE BOARD - ROUND (SMALL)

WHAT THE FINISHED PRODUCT LOOKS LIKE

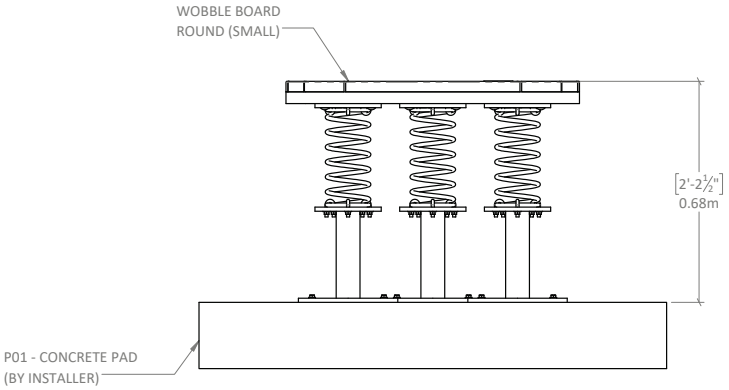
P01 is a poured in place concrete pad used to support and anchor the Wobble Board Round (Small) . The concrete pad is to be provided by the installer.



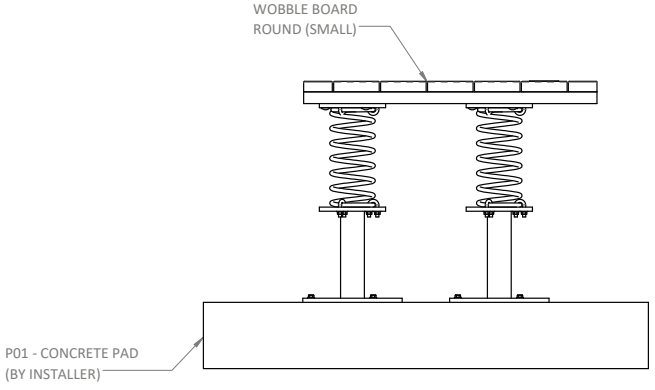
PLAN VIEW



ISOMETRIC VIEW



FRONT VIEW



RIGHT SIDE VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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LOCATE PLAY EQUIPMENT

WOBBLE BOARD - ROUND (SMALL)

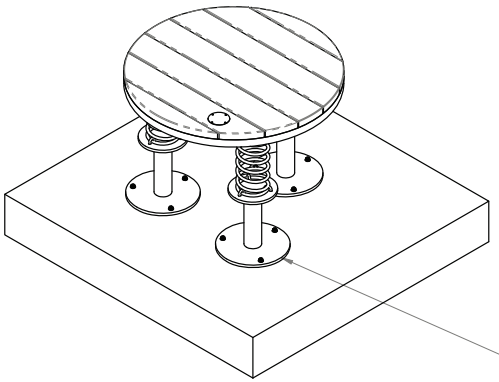
STEP 1 - LOCATING THE EQUIPMENT ON SITE

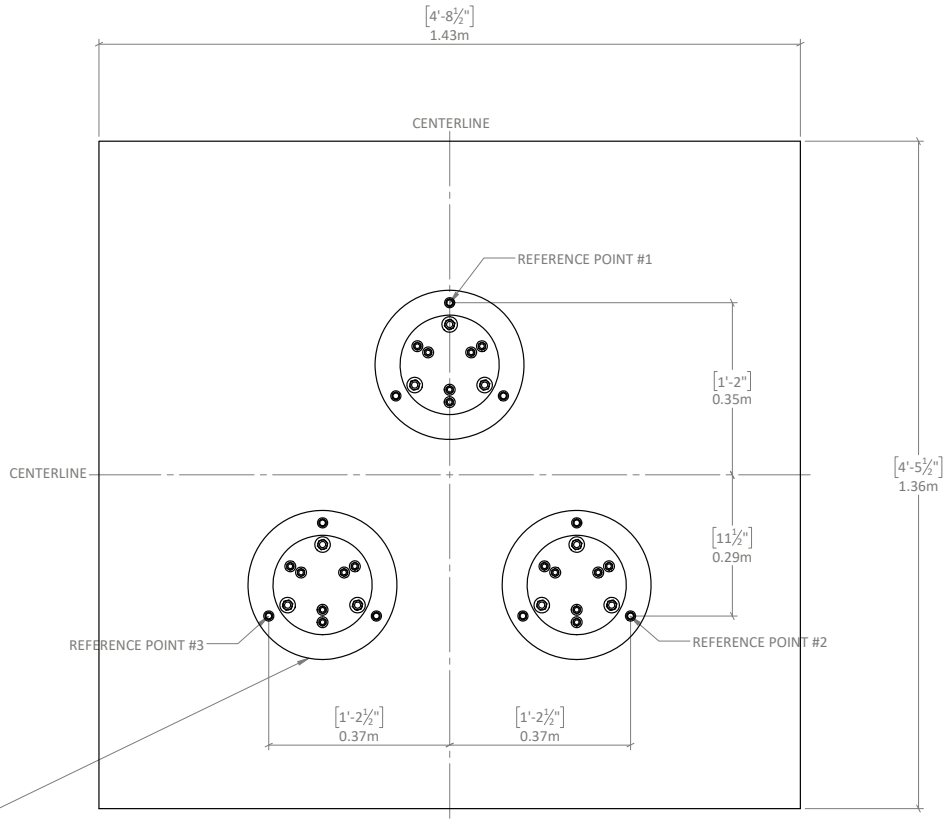
Layout and mark the location of the 3 equipment Reference Points on your site. The location of these points relative to the site is not within the scope of these instructions and should be provided by others.

Ensure you know what the designed elevation is for the finished safety surface. All heights provided in these instructions will be relative to the finished play surface. The finished surface elevation is not within the scope of these instructions and should be provided by others.

STEP 2 - LAYOUT CONCRETE PAD

Layout and mark the outer edge of concrete pad based off the 3 Reference Points. Refer to Footing Plan View on this sheet for details





FOOTING PLAN VIEW

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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EXCAVATION AND POUR CONCRETE

WOBBLE BOARD - ROUND (SMALL)

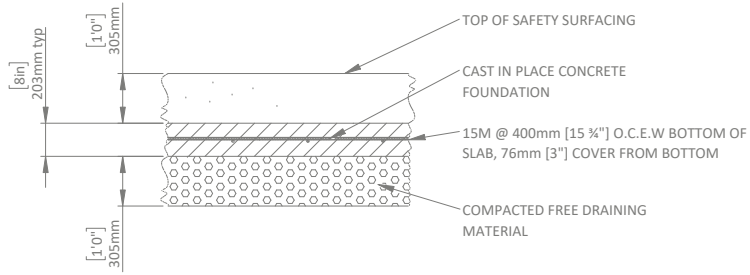
STEP 3 - EXCAVATE FOR CONCRETE PAD

Excavate area and prep as per Concrete Placement Detail SD-001E on this sheet.

The foundation detail provided in these instructions has been developed assuming typical soil conditions specified in general notes. If the subgrade encountered does not meet these conditions, the subgrade must be improved or revisions made to this detail. Revisions to the detail are the responsibility of the installer and it is strongly recommended any changes be reviewed and approved by a registered engineer.

FOUNDATION NOTES:

1. SEE GENERAL NOTES PAGE AT END OF PACKAGE.
2. TOP OF CONCRETE TO BE SET AT 300mm [12"] BELOW TOP OF SURFACING UNO.
3. SLAB TO BEAR ON 300mm [12"] OF FREE DRAINING NON FROST SUSCEPTIBLE SOILS, COMPACTED TO 98% SPDD.
4. CROSS SECTION ONLY. SEE PROJECT DRAWINGS FOR FOUNDATION SIZE, LAYOUT AND ADDITIONAL REBAR.



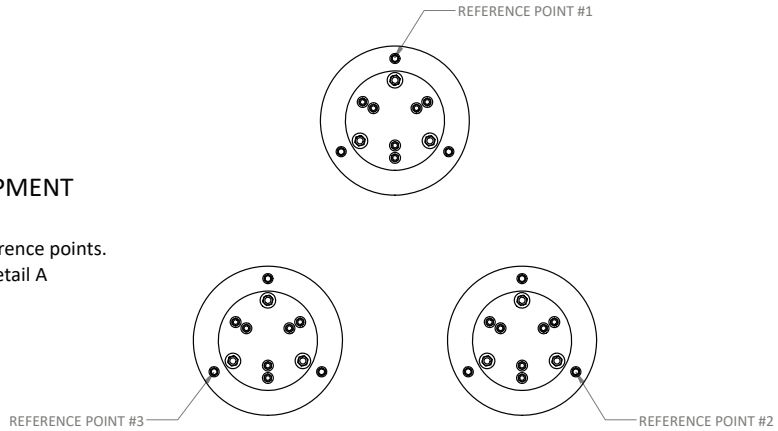
CONCRETE PLACEMENT DETAIL SD-001E

STEP 4 - POUR CONCRETE PAD

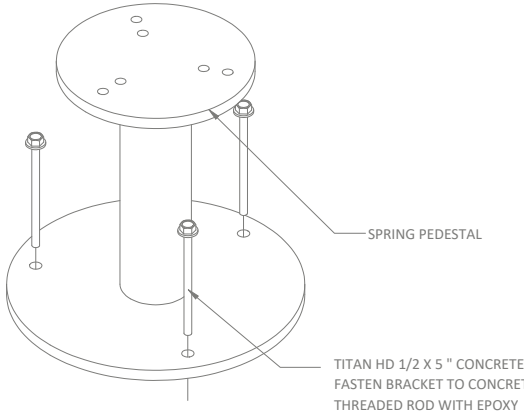
Pour concrete pad as per Concrete Placement Detail SD-001E on this sheet.
Ensure top of concrete is 305mm [12"] below finished play surface.
Allow concrete to cure prior to proceeding to step 5. Refer to 'General Notes' page for cocrete strength requirements.

STEP 5 - ANCHOR PLAY EQUIPMENT

Align the play equipment with the reference points.
Anchor play equipment according to detail A



DETAIL A



TITAN HD 1/2 X 5 " CONCRETE SCREWS TYP.
FASTEN BRACKET TO CONCRETE USING CONCRETE SCREWS OR THREADED ROD WITH EPOXY
REFER TO PAGE 1, CONCRETE SECTION, NOTE 15 FOR DETAILS

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

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GENERAL NOTES

WOBBLE BOARD - ROUND (SMALL)

FOR CANADIAN INSTALLATION SITES USE THESE NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY CSA Z614. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 1200mm. SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH CSA Z614 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH CSA Z614 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN m UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/CSA-Z614 (MOST RECENT EDITION) "CHILDREN'S PLAYSPACES AND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS:

1. METRIC/IMPERIAL DIAMETER CONVERSIONS OF TYPICAL SIZES:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 1mm AND NOT GREATER THAN 2mm LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 1200mm BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 150 kPa.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 150mm OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 150mm TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 200mm LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS: CLASS F-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.55, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 4-7% AIR CONTENT, AND A MAXIMUM SLUMP OF 50-100mm.
    2. SLAB ON GRADE: CLASS C-2 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32 MPa, MAXIMUM WATER/CEMENT RATIO OF 0.45, MAXIMUM COARSE AGGREGATE SIZE OF 20mm, 5-8% AIR CONTENT AND A MAXIMUM SLUMP OF 50-100mm.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY.
    3. REFER TO RESPECTIVE MANUFACTURER's INSTRUCTIONS FOR INSTALLATION PROCEDURE

FOR U.S. INSTALLATION SITES USE THESE NOTES

GENERAL NOTES

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3. ENGINEERING AND STRUCTURAL REVIEW: EARTHSCAPE PROVIDES STAMPED DRAWINGS AND/OR STRUCTURAL LOAD TESTING FOR ONTARIO, AS REQUIRED BY ASTM F-1487-17. LOCAL ENGINEERING APPROVAL FOR JURISDICTIONS OUTSIDE ONTARIO, IF REQUIRED, TO BE PROVIDED BY OTHERS.
4. EARTHSCAPE DESIGNS AND ENGINEERS FOR A FROST PENETRATION DEPTH OF 48". SLAB ON GRADE CONSTRUCTION IS SUBJECT TO FROST MOVEMENTS. FREE DRAINING SOIL UNDER THE FOOTING IS USED TO MINIMIZE FROST EFFECTS. OVERALL TOWER/SLAB MOVEMENT MAY OCCUR.
5. INSPECTION AND TESTING: INSPECTION, TESTING (INCLUDING CONCRETE TESTING), PRE-CONSTRUCTION SURVEYS TO BE COMPLETED BY OTHERS.
6. SURFACING: WHEN AN IMPACT-ABSORBING SURFACE MATERIAL IS REQUIRED, IT MUST COMPLY WITH ASTM F-1292 (MOST RECENT EDITION) FOR THE DEFINED FALL HEIGHT OF THE EQUIPMENT SPECIFIED IN DRAWINGS BY EARTHSCAPE OR A CONTRACTUALLY OBLIGATED CRITICAL HEIGHT SPECIFIED IN ADVANCE. ENSURE USE ZONES, SAFETY ZONES, AND/OR PROTECTIVE SURFACING ZONES AROUND ALL PLAY EQUIPMENT ARE COMPLIANT WITH ASTM F-1292 (MOST RECENT EDITION) - BY OTHERS.
7. SURVEY AND FACILITIES: SURVEY WORK INCLUDING BENCHMARKS, LINES AND LEVELS, PRE-CONSTRUCTION SURVEY, AS-BUILT DRAWINGS BY OTHERS
8. THESE DRAWINGS ARE INTENDED TO BE PRINTED AT 11" X 17" PAGE SIZE. DO NOT SCALE
9. ALL MEASUREMENTS ARE IN INCHES UNLESS OTHERWISE STATED
10. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F1487-17 "STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT"
11. VISUAL DETAILS INCLUDING BUT NOT LIMITED TO: NET SPACING, ROPE APPEARANCE AND COLOURS ARE FOR CONCEPTUAL PURPOSES ONLY
12. ALWAYS WEAR PROPER PPE AND FOLLOW SAFE PRACTICES.
13. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
14. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL SITE CONDITIONS AND REPORTING DISCREPENCIES TO EARTHSCAPE IMMEDIATELY.
15. EARTHSCAPE IS NOT RESPONSIBLE FOR THIRD PARTY USE OF THESE DRAWINGS

FASTENERS

1. METRIC/IMPERIAL DIAMTER CONVERSIONS:
    1. 8mm=5/16", 10mm=3/8", 12mm=1/2", 25mm=1"
    2. ROUND UP TO NEAREST STANDARD LENGTH FOR MANUFACTURER
2. ALL FASTENERS ARE TO BE STAINLESS STEEL (UNLESS OTHERWISE NOTED)
3. ALL BOLT HOLES SHALL BE PRE-DRILLED AND SHALL BE NOT LESS THAN 3/64" AND NOT GREATER THAN 5/64" LARGER THAN THE NOMINAL HOLE DIAMETER
4. FOR PARTIALLY THREADED SCREWS, EMBED FULL THREAD INTO SECONDARY MEMBER OR TO A DEPTH AS SPECIFIED ON DRAWINGS.
5. WHERE PRE-DRILLING OF SCREWS IS RECOMMENDED BY THE SCREW MANUFACTURER, HOLE DIAMETER TO BE STRICTLY AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT USE IMPACT DRILLS FOR SCREW INSTALLATION.
7. DO NOT USE A HAMMER TO ENGAGE THE FASTENER WITH THE WOOD.
8. ALL FASTENERS TO BE INSTALLED AS POSITIONED ON SHOP DRAWINGS.
9. ALL BOLTED CONNECTIONS ARE TO BE SECURED USING VIBRA-TITE "VC-3" THREAD-LOCKING FLUID OR EQUIVILENT

EXCAVATION AND BACKFILL

1. STRIP ALL TOP SOIL, PAVING, AND DELETERIOUS MATERIAL FROM UNDER FOOTINGS.
2. LOCATE ALL SERVICES PRIOR TO COMPLETING EXCAVATION.
3. ALL FOOTINGS SHALL BE PLACED AT A MINIMUM OF 4' BELOW GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. SUPPORTING SUBGRADE AND FILL TO HAVE A MINIMUM BEARING CAPACITY OF 3000PSF.
5. ALL FOOTINGS AND SLABS TO BE PLACED ON EITHER NATIVE GRAVEL/SAND/CLAY OR 6" OF GRANULAR A COMPACTED TO A MINIMUM STANDARD PROCTOR DRY DENSITY OF 98%.
6. BENEATH 6" TOP LAYER OF COMPACTED GRANULAR A, GRANULAR B FILL CAN BE USED AS REQUIRED PLACED IN MAXIMUM 8" LIFTS, COMPACTED TO A STANDARD PROCTOR DRY DENSITY OF 96%.
7. CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXCAVATIONS DURING CONSTRUCTION AS REQUIRED.

CONCRETE

1. CONCRETE MATERIAL TO BE:
    1. FOOTINGS AND SLABS: CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, MAXIMUM WATER/CEMENT RATIO OF 0.50, MAXIMUM COARSE AGGREGATE SIZE OF 3/4", 4-7% AIR CONTENT (WHERE CONCRETE PLACED ABOVE FROST), AND A MAXIMUM SLUMP OF 2 - 4 INCHES.
2. UNLESS NOTED OTHERWISE, FASTEN ALL HARDWARE TO CONCRETE USING EITHER:
    1. SIMPSON STRONG TIE "TITEN HD" Ø½ X 5" SS CONCRETE SCREW
    2. THREADED ROD WITH SIMPSON STRONG TIE "SET 3G" OR HILTI "HY-200" EPOXY
    3. REFER TO RESPECTIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE

Playground Grass™ Discovery Seattle Parks

Product Specifications



NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

Components	Specifications
YARN TYPE	Primary: Polyethylene slit film Secondary: Heat set textured nylon monofilament
YARN COLOR	Primary: Field Green Secondary: Turf Green
YARN COUNT	Primary: 5,040/1 Secondary: 4,200/8
TUFTING CONSTRUCTION	Dual yarn, same row
BLADE HEIGHT	1"*
TUFTING GAUGE	3/8"
FACE WEIGHT	58 oz.*
TOTAL PRODUCT WEIGHT	113 oz.*
BACKING	Three-layer premium backing made with BioCel polyurethane and 100% recycled geotextile nonwoven fabric on a dual layer primary.
ANTISTATIC TECHNOLOGY	Yes
ANTIMICROBIAL PROTECTION	AlphaSan®
SEAMING	Micromechanical bonding
INFILL	2 lbs. sand psf. recommended

*Product heights shown may have a variance of 1/8" and product weights shown may have a variance of 2%.

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M1829 Rev. 03/23

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

SECTION 32 18 16.13 PLAYGROUND GRASS RESILIENT SURFACING

Playground Grass Modified Discovery

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of this Contract, including General and Supplementary Conditions and other Division 1 Specification sections apply to this Section.

1.2 DESCRIPTION OF WORK

A. Playground Grass resilient surface systems for surfaces under and around playground equipment including but not limited to the furnishing and installing an artificial grass safety surface over a compacted base. Finished product shall be seamed to provide a resilient, continuous surface over the entirety of the project surface. Work includes all labor, materials, tools, equipment, and applicable taxes to perform all work and services for the installation of the surface.

1.3 REFERENCE SPECIFICATIONS AND STANDARDS

A. Materials and methods of construction shall comply with the latest provisions of the following standards:

I. ASTM F 1292-04 “Standard Specification for Impact Attenuation of Surface Systems Under and around Playground Equipment”.
II. ASTM D2859 “Flammability Standard”.
III. ASTM F1951-99: Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.
IV. ASTM D7968: Standard Test Method for Determination of Polyfluorinated (PFAS) Compounds in Soil by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)

1.4 SUBMITTALS

Any alternate product must be submitted with prior approval packages a minimum of ten (10) days prior to bid date. Submittal packages shall include but not be limited to:

A. Laboratory Test Reports: Materials certificates certifying each material item complies with, or exceeds, specified requirements. Certificates of compliance must be signed by materials producer and contractor.
B. Product Verification: Delivery slip for each material shipment, including turf and infill material.
C. Warranties: Product and maintenance warranties must be provided to owner prior to installation.
D. Field test inspection reports and samples for material including Impact attenuation, permeability, and flammability.
E. Playground Grass Surface Installer Qualifications: A list of ten (10) playground surfacing projects completed with a similar product within the last five (5) years. List shall include names of project representatives and respective telephone numbers. This list shall also contain projects which require the same level of difficulty, e.g. number of poles and cutouts, transitions and other

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

special requirements. These ten (10) projects shall have been contracted and installed by the company bidding the job.
F. Product Substitution Submittals: Contractor shall provide the following material for playground grass material substitution.
I. At least one project in excess of 5,000 square feet and completed in the two (2) years.
II. Two 1'x1' product samples.
III. Product warranty and guarantee from manufacturer warranting against all defects for a fifteen (15) year period.
IV. A written guarantee from manufacturer for workmanship.
V. Impact attenuation (per fall height requirements), permeability and flammability test results from independent approved and certified testing laboratories.
VI. The artificial grass installer/contractor will provide a maintenance procedure for the installed surface.

1.5 TESTING OF MATERIALS

A. The following are test results from an independent testing laboratory which must also be submitted:

I. Impact Attenuation: ASTM 1292-04: Impact attenuation test results will be provided. These test results shall be certified and submitted on the letterhead of an independent testing lab. Impact attenuation test results shall meet or exceed Consumer Product Safety Commission Guidelines for impact attenuation (G-max and Head Injury Criterion "H.I.C."). Test results must be administered and evaluated under the same test and these results must be shown for three drops at each required temperature: 32o, 72o, 120o; yield less than 200 G's and less than 1,000 H.I.C. only test results from ASTM testing approved laboratories, F8 committee will be acceptable. Approved testing laboratories are TSI and Detroit Testing.

II. Permeability: Product shall meet or exceed a coefficient of permeability of 100" per hour.
NOTE: From a geotechnical standpoint, the permeability of a material is a measure of the velocity at which water will flow through the void spaces or pores under a given hydraulic gradient. The product shall handle a minimum of 20" of rainfall per hour.

III. Flammability (PILL test)
NOTE: To assure compliance with a, b, and c installation shall be provided by an approved installer, who has at least five successful installs.

IV. PFAS Within Specified Limits: ASTM D7968: Standard Test Method for Determination of Polyfluorinated (PFAS) Compounds in Soil by Liquid Chromatography Tandem Mas Spectrometry (LC/MS/MS)

1.6 WORKMANSHIP AND QUALITY ASSURANCE

A. The artificial grass is to be installed per manufacturer's specifications.

B. All artificial grass and components shall be provided by a single source.

1.7 DELIVERY AND STORAGE OF MATERIALS

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

A. Artificial grass will be delivered in rolls 15’ wide, wrapped in plastic. SafetyFoam Pro™ will be delivered on pallets in a separate shipment.

B. Products will be stored out of site (as much as possible) and secured to prevent tampering.

1.8 GUARANTEE/WARRANTY OF THE MATERIAL AND WORKMANSHIP

A. The artificial grass installed under this contract will be warranted for a period of fifteen (15) years for materials and covers the surface for wear through, deterioration and excessive fading/ UV degradation. Vandalism and force majeure will not be covered. Written warranty must be submitted by the installer.

B. When defective material or workmanship is discovered which will require repair or replacement, all such repair work or replacement work shall be done by the contractor at its own expense after written notification is given of such required repairs. However, if the contractor fails to comply with the requirements of the above guarantee within reasonable time after notification is given, the repairs will be made by others at the contractor’s expense.

I. Any unsafe conditions that arise shall be secured and maintained by the installer until all required repairs or replacements have been completed.

II. All resurfacing will conform in kind and quality to the specifications set forth in the plans and specifications and will be free of defects in workmanship and material.

PART 2 - PRODUCTS

2.1 DESCRIPTION OF SYSTEM

Synthetic Grass System shall be Modified Discovery with Envirofill infill, anti-static and antimicrobial properties, and resilient subsurface padding for designated Critical Fall Height, as manufactured by Foreverlawn Inc, 8108 River Dr SE, Suite 109, Olympia, WA 98501.

Synthetic Grass Properties:

A. Primary blades are a polyethylene slit film with anti-microbial agent and antistatic technology integrated into the primary yarn. Secondary blades are a set textured nylon monofilament.
B. Weight: The product face weight is 58 oz. With backing the total weight of the product is 113 oz.
C. Tufting: Dual yarn, same row. The tufting gauge will be 3/8”, pile height 1”.
D. Backing: The three-layer backing is made with BioCel polyurethane and 100% recycled geotextile nonwoven fabric on a dual layer primary.
E. Seams: Primary seaming system shall be a micromechanical seam, utilizing hook and loop technology.
F. Resilient subsurface padding: The SafetyFoam Pro is a closed cell expanded polypropylene interlocking panel that resists mold, mildew, and decay. Thickness of the SafetyFoam Pro shall meet manufacturer’s recommendation for the designated critical fall height. The following thickness information of SafetyFoam Pro for various Critical Fall Height (CFH) is for reference only. Confirm thickness with manufacturer’s recommendations and include the thickness of SafetyFoam Pro for the submittal.
    a. 1” SafetyFoam Pro = 4 Ft CFH
    b. 1.5” SafetyFoam Pro = 6 Ft CFH

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

c. 2” SafetyFoam Pro = 8 Ft CFH
d. 3” SafetyFoam Pro = 10 Ft CFH

G. Infill: Infill material will be Envirofill manufactured by USGreentech, LLC, 5076 Wooster Road, Cincinnati, OH 45226, 1 (800) 548-0402. The Envirofill is an acrylic coated silica sand with antimicrobial technology to prevent the growth of bacteria, mold, and mildew. For Discovery synthetic grass surface, use 2 lbs. of Envirofill infill per sq/ft.

PART 3 - EXECUTION

3.1 BASE REQUIREMENTS

A. Playground Grass Systems with SafetyFoam Pro: The base shall be angular 3/4" clean stone, leveled and compacted (at minimum 90% compaction) at a depth of 3" to 4".

B. Playground Grass Systems without SafetyFoam Pro: The base shall be angular 3/4" clean stone, leveled and compacted (at minimum 90% compaction) at a depth of 3" to 4", and capped with 1 inch of 3/8" clean angular stone

3.2 PREPARATION

A. The perimeter of the area shall be defined with a nailer board (pressure treated or plastic), unless an acceptable surface for anchoring the turf currently exists. These nailer boards will be secured into concrete or blacktop, or held in place with rebar spikes.

B. Cleaning: the entire surface shall be clean and free from any foreign and loose material.

3.3 INSTALLATION

A. SafetyFoam Pro subsurface padding will be laid out in a 2’x4’ grid of interlocking panels over the base.

B. Artificial Turf: The turf will be rolled out in sections, cut around the poles, and seamed together using the micromechanical seaming system as the primary bond.

C. Securing: The turf will be secured around the perimeter. If using nailer boards, stainless steel staples will be used to secure the turf to the boards. Staples will be placed every 3”. (See edge details)

D. Installer Qualifications:

Playground Synthetic Turf and PlayMound: Installer shall have Factory-IPEMA Certification. Installer shall have Playground Grass Certification by ForeverLawn, Inc. A list of (10) playground surfacing projects completed with a similar product and PlayMound within the last (5) years. List shall include names of project representatives and respective telephone numbers. This list shall also contain projects which require the same level of difficulty; e.g. number of poles and cutouts, transitions, and other special requirements. These (10) projects shall have been contracted and installed by the company bidding the job. Utilize an installer having successful experience with projects of similar scope and complexity.

Playgrounds Don't Have to be Flat...

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED



Design a One-of-a-Kind Playground with Custom PlayMounds!

Benefits of PlayMounds:

- Unlimited shape and contour options for truly unique designs.
- Guaranteed against settling.
- Built-in safety surface with a nine-foot critical fall height rating.
- Perfect for rooftop applications.
- Fast and efficient installation.
- Smaller PlayMounds™ can be relocated for seasonal use.
- Ability to integrate play components into the PlayMounds.
- Antimicrobial premium turf options promote health and safety.





Ask about these valuable features available in Playground Grass by ForeverLawn:

ASTM SAFETY RATED • ADA ACCESSIBLE • ANTIMICROBIAL • ANTISTATIC • MULTICOLORED • FUNSCAPES

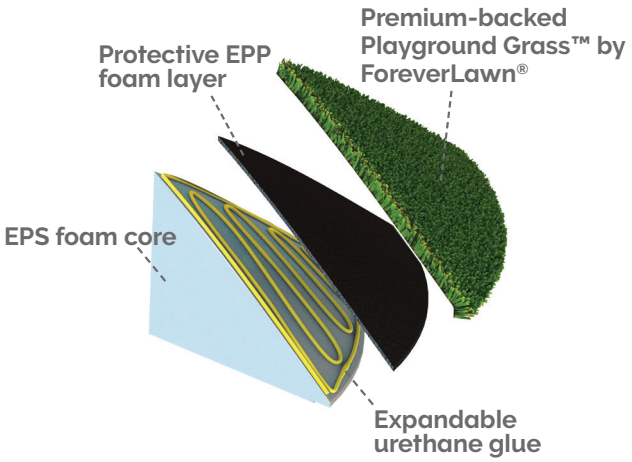
Bring Your Vision to Life with Custom PlayMounds

NOTE: ALL PLAY EQUIPMENT AND PLAY SURFACING COMPONENTS WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED

What are PlayMounds?

PlayMounds™ are a line of prefabricated foam mounds that add contour and creativity to the playground landscape. With a protective layer of construction-grade expanded polypropylene (EPP), PlayMounds provide durable, long-lasting surface innovations. This revolutionary design and fabrication method is patent-pending.

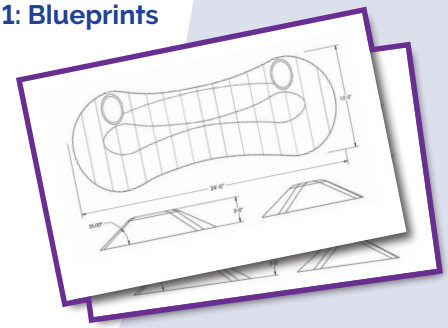
Patent-Pending Construction:



Custom fabrication to your exact specifications

- ForeverLawn® creates a pre-production drawing based on client requirements.
- The customer reviews the drawing and provides feedback or approval.
- Once the drawing is approved, an approximate shipping date is provided.
- Production of mounds is completed in six to eight weeks.

1: Blueprints



2: Shop fabrication to your exact specifications



3: Assembly in the field is easy and efficient



4: Premium-backed turf installed to withstand rigorous play



PLAYGROUND GRASS by ForeverLawn®

330.499.8873 | playgroundgrass.com

Permit Number:
6768907-GR

CITY OF SEATTLE
Grading Permit

Seattle Department of
Construction and Inspections
700 Fifth Ave, Suite 2000
PO Box 34019
Seattle, WA 98124-4019
(206) 684-8600

APN #:
DV0083224

Site Address: 4731 40TH AVE SW SEATTLE, WA 98116

Location: Construction will take place on the entire property

Legal Description: LOTS 30-37, BLOCK 3 , SCENIC PARK ADD

OWNER	CONTRACTOR
GGLO 1301 5th Ave Suite 2200 Seattle, WA 98101 Ph: (206) 902-5424	

Application Date:	01/31/2020
Issue Date:	01/07/2025
Expiration Date:	01/07/2028
Fees Paid:	$2,103.16
As of Print Date:	06/23/2026

Description of Work: Site improvements to vacant lot to create park (West Seattle Junction Land Bank Park), per plan.

Permit Remarks:

DPD Valuation: $1,984,500.00

Special Inspections: N

Land Use Conditions: N

Zoning/Overlays:

A/P #	Related Cases/Permits
6768907-GR-002	Update Contacts
6768907-GR-006	Renewal Request
6768907-GR-003	Upload Documents
6768907-GR-005	Revision Request - Building
6768907-GR-001	Upload Documents
6768907-GR-004	Contractor Disclosure Form
Additional Information on File	

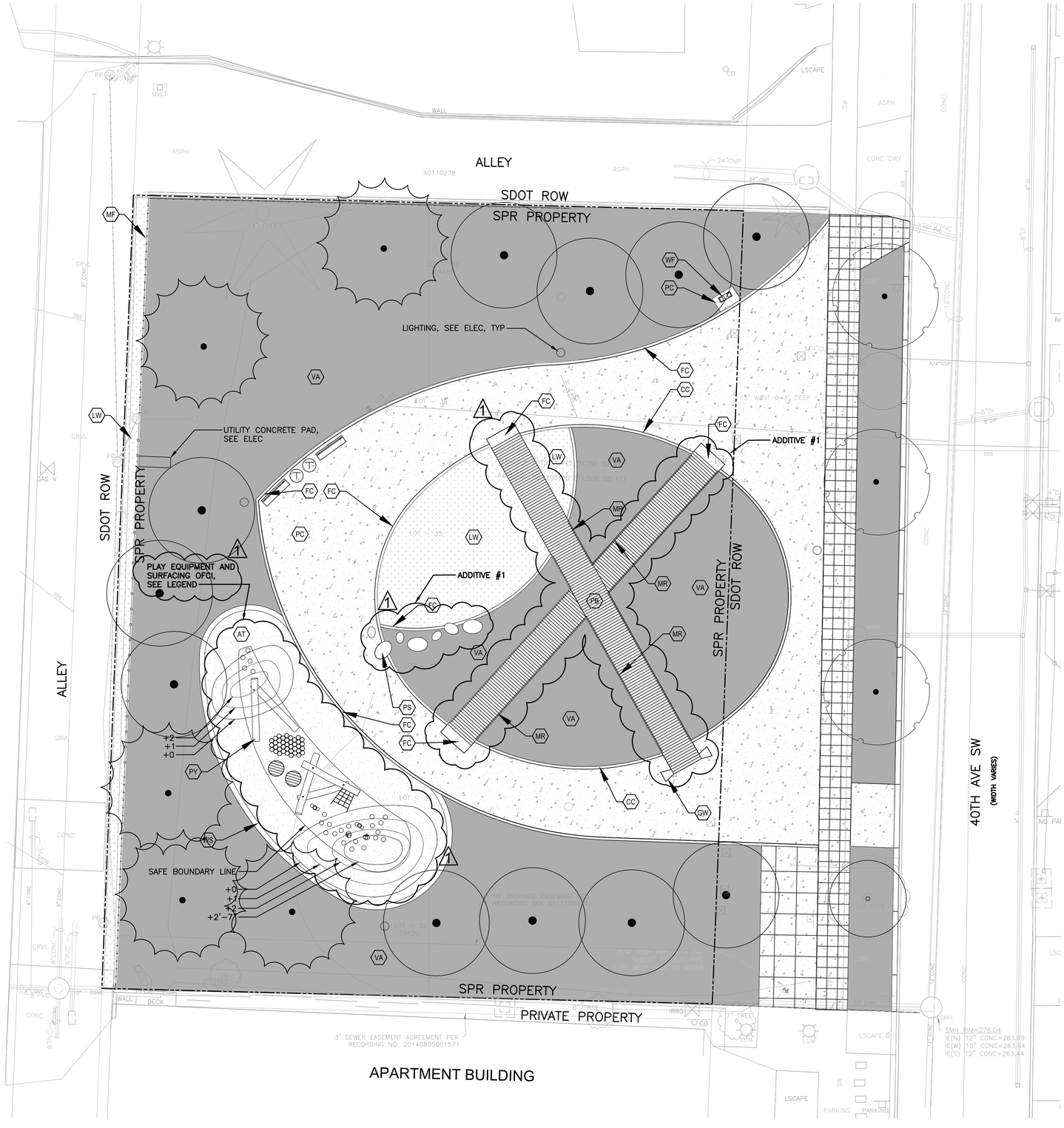
Project Contacts	Name	Phone
Structural Reviewer	NA	NA
LU Planner	NA	NA

Applicant Signature: **Date:**

Records Filed At: 4731 40TH AVE SW

Permitted work must not progress without prior inspection approval. When ready for inspection, make request with the Department of Planning and Development at (206) 684-8900 or on the internet at: www.seattle.gov/dpd/inspectionrequest. Provide the permit number, site address, and contact phone. Permission is given to do the above work at the site address shown, according to the conditions hereon and according to the specification pertaining thereto, subject to compliance with the Ordinances of the City of Seattle. Correct information is the responsibility of the applicant. Permits with incorrect information may be subject to additional fees.

You Must Have a Paper Copy of Your Approved and Stamped Plan Set Available at Your Job Site for the City Inspector to Review. If You Do Not Have Your Plans Printed and Ready for Review, You May Fail Your Inspection.



1 MATERIALS PLAN
SCALE : 1" = 10'-0"

0 10 20 Feet

MATERIALS LEGEND

TAG	VISUAL	DESCRIPTION	DETAIL
AT		ARTIFICIAL TURF PLAY SURFACING (OFCI, CONTRACTOR TO INSTALL PER MANUFACTURER. SEE APPENDIX B FOR EQUIPMENT INSTALLATION DETAILS) (1)	1 / L6.3 SEE CIVIL
BS		BENCH SEATING	3 / L6.3 SEE SPECS
CC		6" RAISED CONCRETE CURB	2 / L6.1
CP		SCORED COS STANDARD CONCRETE PAVING	SEE CIVIL
FC		FLUSH CONCRETE CURB WIDTH VARIES - SEE LAYOUT PLAN	SEE CIVIL
MF		METAL FENCE ON CONCRETE CURB	4 / L6.3
MR		METAL MUSEUM RAIL AT DECKING (ADDITIVE #1)	3 / L6.1 SEE STRUCTURAL
PC		PERMEABLE CONCRETE PAVING	SEE CIVIL
PS		PEBBLE SEATING (ADDITIVE #1)	SEE SPECS
VA		VEGETATED AREA	SEE PLANTING PLANS
TR		TRASH/RECYCLING RECEPTACLE	SEE SPECS
WF		WATER FOUNTAIN	1 / L6.2 SEE CIVIL
LW		LAWN AREA	SEE PLANTING PLANS
WS		12" WIDTH CONCRETE SEATWALL	6 / L6.1
PY		PLAY EQUIPMENT (OFCI, CONTRACTOR TO INSTALL PER MANUFACTURER. SEE APPENDIX B FOR EQUIPMENT INSTALLATION DETAILS) (1)	SEE SPECS
GW		GATEWAY (ADDITIVE #1)	2 / L6.2
PB		CONCRETE PLANK SYSTEM (ADDITIVE #1)	SEE STRUCT

NOTES:
1. SEE SIP DRAWINGS FOR R.O.W DESIGN.

<<<CAUTION>>>
CALL 811 BEFORE YOU DIG!
WWW.CALL811.COM

ALSO, VERIFY ALL UNDERGROUND UTILITIES NOT LOCATED BY THE 811 SERVICE BY USING A COMMERCIAL LOCATION SERVICE AND CALL SPR INSPECTION REQUEST LINE (206) 684-7034.

NO.	REVISION – AS BUILT	DATE
3		
2		
1	ADDENDUM #1	06/30/26

REVIEWED: PARK ENGINEER — 07/01/2026 DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

GGLO DESIGN

STATE OF WASHINGTON · MARIEKE LASSEE · LICENSED LANDSCAPE ARCHITECT · NO 965 EXP. 08/19/2027

Seattle Parks & Recreation

WEST SEATTLE JUNCTION

LAND BANK PARK

MATERIALS PLAN

DESIGNED TS — DATE 11/26/25
DRAWN DJ
CHECKED ML — SHEET 18 OF 37
ORDINANCE NO. 125475, 126490, 126725, 126955 — **L3.0**
SCALE 1" = 10'-0"