



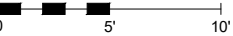
Addendum No. 1 to Bid No. 2122-09
Playground Demolition and Installation
Ashley Falls School and Carmel Del Mar School

Addendum Dated: March 4, 2022
Original RFP Issued Date: February 23, 2022

All questions received and clarifications of requirements are posted below with corresponding answers. No changes to the bid timeline.

Q: Are there detailed plans you can share for install?

A: Attached are the plans



TOTAL ELEVATED PLAY COMPONENTS:	17	
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY RAMP:	0	REQUIRED: 0
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY TRANSFER:	14	REQUIRED: 9
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN:	10	REQUIRED: 6
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS OF DIFFERENT TYPES:	5	REQUIRED: 3

* APPLICABLE ONLY WITH ADA COMPLIANT SURFACING.

PLAY STRUCTURE AND LAYOUT OF THE COMPONENTS CONFORM TO
ASTM F1487-17 AND CPSC #325 GUIDELINES AND CCR TITLE 22,
DIVISION 4 CHAPTER 22.

CRITICAL FALL HEIGHT OF OVERALL PLAY AREA: 105"

PROJECT:

CARMEL DEL MAR PRIMARY

SAN DIEGO, CA

DESIGNED BY:

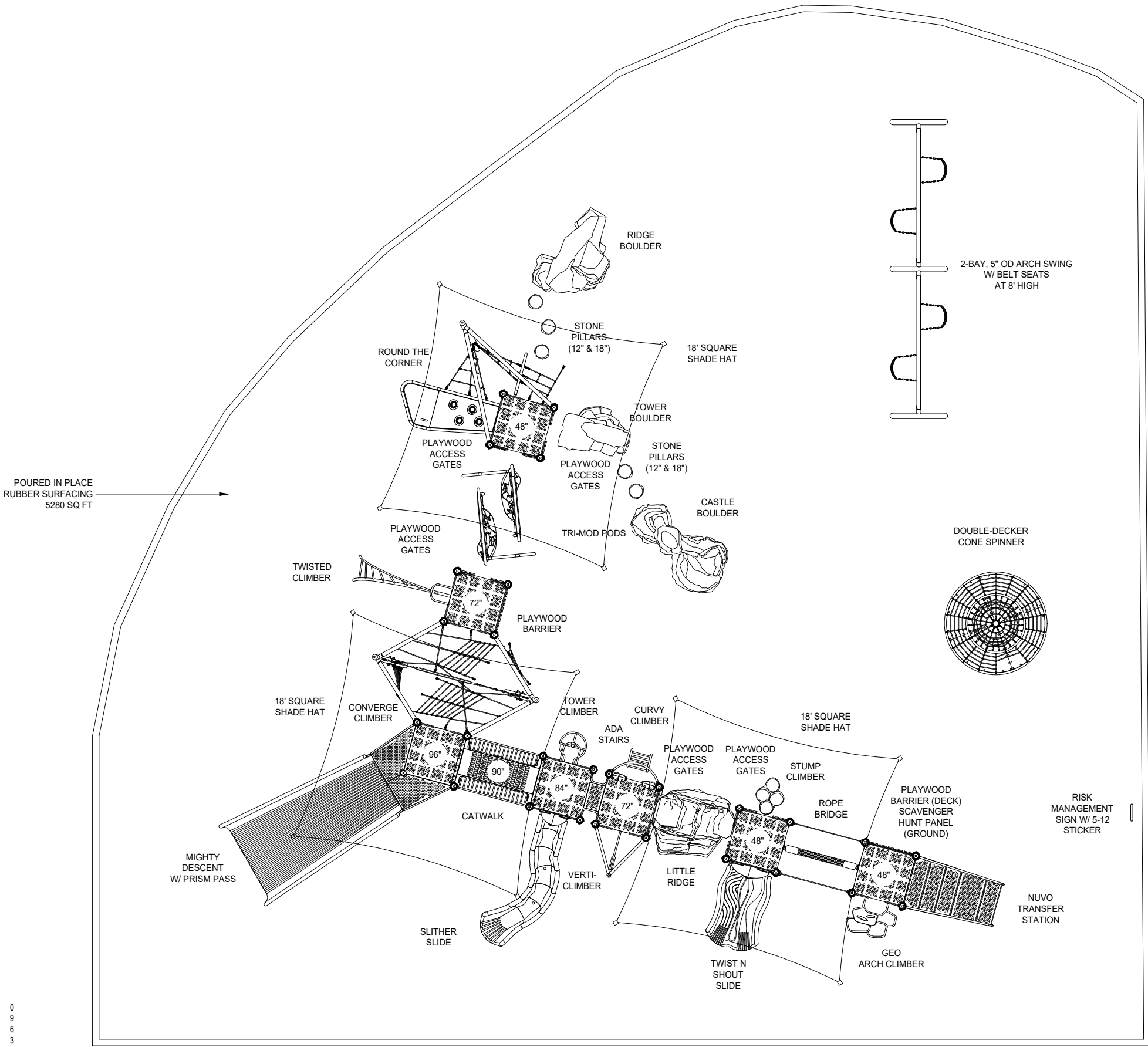
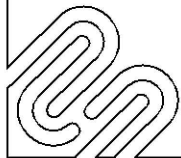
ALEX BERON
FEBRUARY 21, 2022
DRAWING #
C21133PMR2 22

DESIGNED FOR

AGES
5-12

since 1979
davebang
associates inc.

► park + playground



CARMEL DEL MAR

Design Number: C21133PMR2 22 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	4	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	35.20			216	4	1.00	0.00	4
2	ZZXX0914	1	CONE SPINNER DOUBLE DECKER	Certified	521.10			11,874	14	10.00	2.63	1
3	ZZXX0931	1	5in OD 2-UNIT STEEL ARCH SWING- 8ft TOP RAIL	Certified	417.00			84	0	3.00	0.48	0
4	ZZXX0933	1	5in OD STEEL ARCH SWING 2-UNIT ADD-A-BAY	Certified	249.30			84	0	2.00	0.24	0
5	ZZPM0026	4	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	296.84			434	0	4.00	0.48	0
6	ZZPM0046	2	5in OD X 156in STEEL POST W/ RIVETED CAP	Certified	175.42			253	0	2.00	0.26	0
7	ZZPM0056	2	5in OD X 168in STEEL POST W/ RIVETED CAP	Certified	185.02			271	0	2.00	0.26	0
8	ZZPM0066	6	5in OD X 180in STEEL POST W/ RIVETED CAP	Certified	604.86			867	0	6.00	0.78	0
9	ZZPM0266	2	5in OD x 217in STEEL POST W/CAP	Certified	228.02			363	0	2.00	0.24	0
10	ZZPM0386	4	5in OD x 186in LARGE SHADE HAT POST- (48in & 60in DECK)	N/A	424.64			560	0	4.00	0.00	0
11	ZZPM0387	4	5in OD x 210in LARGE SHADE HAT POST- (72in & 84in DECK)	N/A	480.08			632	0	4.00	0.00	0
12	ZZPM0388	4	5in OD x 234in LARGE SHADE HAT POST- (96in & 108in DECK)	N/A	534.64			705	0	4.00	0.00	0
13	ZZPM0616	7	SQUARE COATED DECK ASSEMBLY	Certified	632.52			1,544	28	7.00	0.00	0
14	ZZPM0684	1	NUVO- 48in TRANSFER STATION	Certified	389.40			418	3	4.00	0.12	0
15	ZZPM2727	1	TWIST AND SHOUT (48in DECK)	Certified	185.20			662	4	3.00	0.06	1
16	ZZPM2805	2	ENTRY SUPPORT BRACKET	Certified	33.88			133	0	1.00	0.00	0
17	ZZPM3206	1	SLITHER SLIDE 2.0 ENTRANCE & EXIT	Certified	97.18			449	2	2.00	0.03	1
18	ZZPM4695	1	MIGHTY DESCENT W/PRISM PASS	Certified	1,184.20			2,050	15	10.00	0.48	2
19	ZZUN3207	1	SLITHER SLIDE 2.0 (STRAIGHT SECTION)	Certified	19.59			128	0	0.25	0.00	0
20	ZZUN3208	3	SLITHER SLIDE 2.0 (RIGHT SECTION)	Certified	58.77			401	0	0.75	0.00	0



CARMEL DEL MAR

Design Number: C21133PMR2 22 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
21	ZZUN3209	1	SLITHER SLIDE 2.0 (LEFT SECTION)	Certified	19.59			134	0	0.25	0.00	0
22	ZZUN3248	1	SLITHER SLIDE 2.0 SUPPORT LEG 4ft-6in	Certified	17.21			66	0	0.25	0.03	0
23	ZZUN3256	1	SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in	Certified	12.81			59	0	0.25	0.03	0
24	ZZPM4547	1	SCAVENGER HUNT (GROUND LEVEL)	Certified	56.54			590	3	2.00	0.00	1
25	ZZPM4288	2	ACCESS GATE	Certified	68.76			183	0	1.00	0.00	0
26	ZZPM4658	6	PLAYWOOD ACCESS GATES	Certified	351.96			581	0	3.00	0.00	0
27	ZZPM4659	2	PLAYWOOD WALL BARRIER	Certified	118.60			204	0	1.00	0.00	0
28	ZZPM4704	1	VERTICLIMBER 72in	Certified	136.50			105	2	1.50	0.13	1
29	ZZPM4707	1	CONVERGE	Certified	751.10			1,491	10	9.00	0.38	1
30	ZZPM4708	1	ROUND THE CORNER	Certified	591.50			1,355	8	5.00	0.47	1
31	ZZPM7006	1	GEO ARCH CLIMBER (48in DK)	Certified	72.67			190	1	2.00	0.06	1
32	ZZPM7059	1	72in CURVY CLIMBER	Certified	95.53			577	1	2.00	0.06	1
33	ZZPM7160	1	6ft TWISTED CLIMBER	Certified	128.99			256	2	2.00	0.60	1
34	ZZPM7169	1	7ft TOWER CLIMBER	Certified	119.26			267	2	2.00	0.90	1
35	ZZUN6841	2	MODPODS TRI- VERTICAL TALL	Certified	562.30			945	4	6.00	0.78	2
36	ZZUN8805	1	STUMP CLIMBER	Certified	990.01			3,371	3	2.00	0.14	1
37	ZZUN8815	1	LITTLE RIDGE	Certified	3,850.01			7,450	6	3.00	1.15	1
38	ZZBD0014	1	TOWER BOULDER	Certified	4,640.00			4,891	4	2.00	1.98	1
39	ZZBD0015	1	RIDGE BOULDER	Certified	7,830.00			6,938	4	2.00	1.66	1
40	ZZBD0016	1	CASTLE BOULDER	Certified	13,920.00			10,427	5	2.00	2.47	1
41	ZZUN8811	3	12in STONE PILLAR	Certified	422.43			1,772	3	4.50	0.18	3
42	ZZUN8812	2	18in STONE PILLAR	Certified	321.78			1,181	2	3.00	0.12	2
43	ZZPM6398	1	6ft ROPE BRIDGE	Certified	86.38			1,802	3	1.00	0.00	1
44	ZZPM7080	1	6ft CATWALK	Certified	253.68			518	3	4.00	0.00	1
45	ZZPM4717	3	18ft SQUARE HAT SHADE	Certified	1,486.50			6,798	0	30.00	0.57	0
46	ZZPM9726	1	PM SQUARE HAT POST BRACES	Certified	104.30			330	0	1.00	0.00	0
47	ZZPM9168	1	12in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	N/A	94.46			345	1	1.50	0.00	0



CARMEL DEL MAR

Design Number: C21133PMR2 22 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
Totals:					43,855.73	2,197	3,984	74,952	137	165.25	17.77	31
					9,735.08 Kg	989 Kg	1,793 Kg	75 Metric Tons			13.51 m3	



CARMEL DEL MAR

Design Number: C21133PMR2 22 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref.	Unit	Total	Pre-Consumer	Post-Consumer	CO2e		Install	Concrete	Active
No. Part No.	ASTM	Weight	Recycled	Content	Footprint	Users	Hours	(Yds3)	Play
Qty. Description	Status	(lbs)	(lbs)		(kgs)				Events

ASTM F1487

The lay-out for this custom playscape, design number C21133PMR2 22, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

2010 ADA Standards for Accessible Design

The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

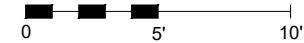
A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.



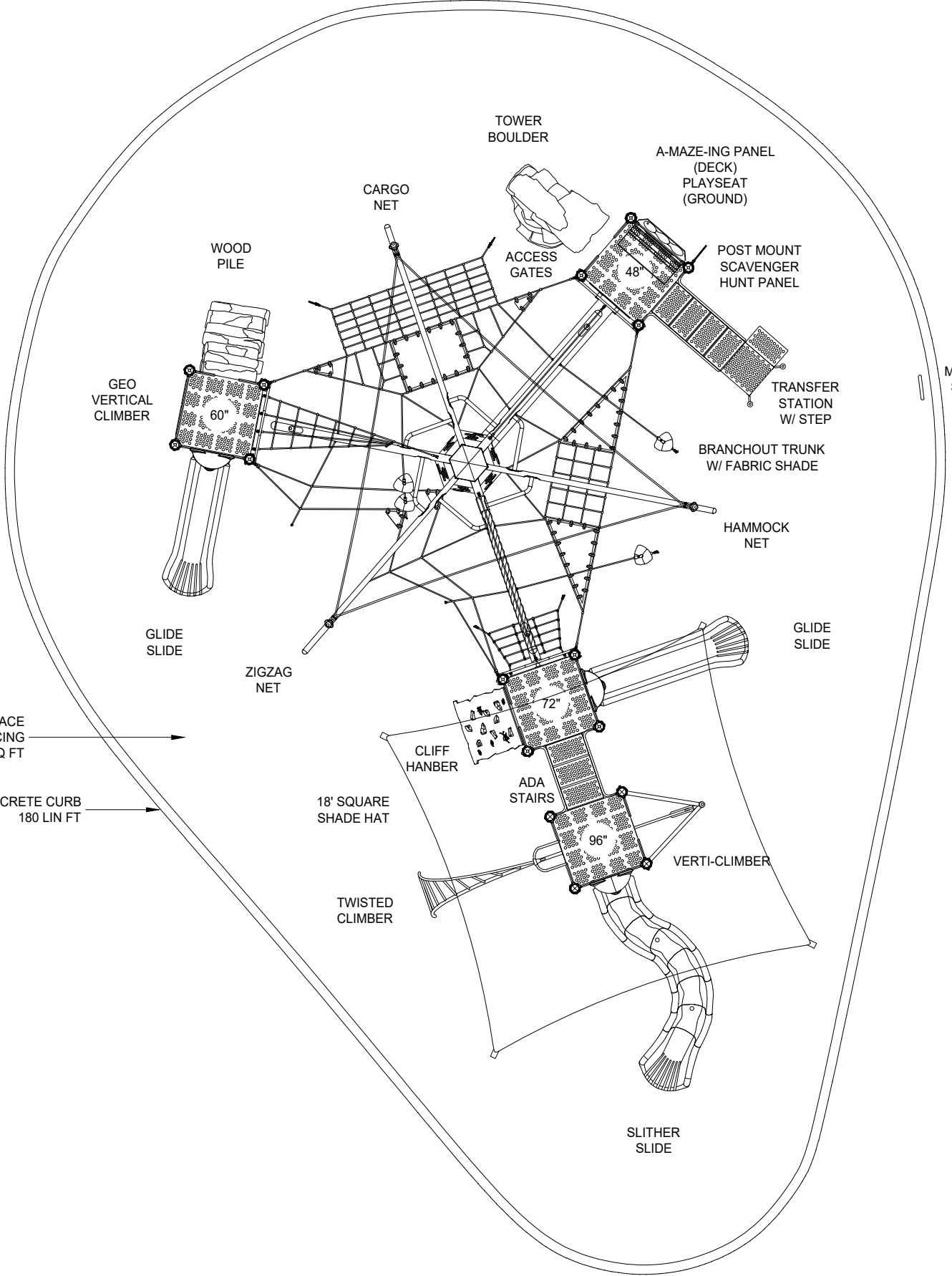


TOTAL ELEVATED PLAY COMPONENTS:	11	
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY RAMP:	0	REQUIRED: 0
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY TRANSFER:	11	REQUIRED: 6
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN:	5	REQUIRED: 4
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS OF DIFFERENT TYPES:	3	REQUIRED: 3

* APPLICABLE ONLY WITH ADA COMPLIANT SURFACING.

POURED IN PLACE
RUBBER SURFACING
2312 SQ FT

CONCRETE CURB
180 LIN FT



RISK
MANAGEMENT
SIGN W/ 5-12
STICKER

PLAY STRUCTURE AND LAYOUT OF THE COMPONENTS CONFORM TO
ASTM F1487-17 AND CPSC #325 GUIDELINES AND CCR TITLE 22,
DIVISION 4 CHAPTER 22.

CRITICAL FALL HEIGHT OF OVERALL PLAY AREA: 96"

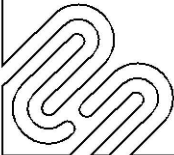
PROJECT:

ASHLEY FALLS PRIMARY
SAN DIEGO, CA

DESIGNED BY:
ALEX BERON
NOVEMBER 23, 2021
DRAWING #
C21136PM

DESIGNED FOR
AGES
5-12

since 1979
dave bang
associates inc.
park+playground



ASHLEY FALLS PRIMARY

Design Number: C21136PM - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZPM0026	2	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	148.42			217	0	2.00	0.24	0
2	ZZPM0036	2	5in OD X 144in STEEL POST W/ RIVETED CAP	Certified	161.82			235	0	2.00	0.26	0
3	ZZPM0036GZ	2	5in OD X 144in STEEL POST (GROUND ZERO)	Certified	160.82			235	0	3.00	0.36	0
4	ZZPM0046	2	5in OD X 156in STEEL POST W/ RIVETED CAP	Certified	175.42			253	0	2.00	0.26	0
5	ZZPM0047GZ	2	5in x 156in GROUND ZERO POST - w/ CAP	Certified	180.86			253	0	2.00	0.36	0
6	ZZPM0056GZ	2	5in OD X 168in STEEL POST W/ CAP (GROUND ZERO)	Certified	194.02			271	0	2.00	0.36	0
7	ZZPM0388	4	5in OD x 234in LARGE SHADE HAT POST- (96in & 108in DECK)	N/A	534.64			705	0	4.00	0.00	0
8	ZZPM0616	4	SQUARE COATED DECK ASSEMBLY	Certified	361.44			882	16	4.00	0.00	0
9	ZZPM2027	1	TRANSFER STATION (48in DECK)	Certified	287.44			567	3	2.00	0.09	0
10	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83			72	1	1.00	0.04	0
11	ZZPM2658	1	GLIDE SLIDE (60in DECK)	Certified	147.29			587	2	1.50	0.03	1
12	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44			678	2	1.50	0.03	1
13	ZZPM3206	1	SLITHER SLIDE 2.0 ENTRANCE & EXIT	Certified	97.18			449	2	2.00	0.03	1
14	ZZUN3208	4	SLITHER SLIDE 2.0 (RIGHT SECTION)	Certified	78.36			534	0	1.00	0.00	0
15	ZZUN3209	2	SLITHER SLIDE 2.0 (LEFT SECTION)	Certified	39.18			267	0	0.50	0.00	0
16	ZZUN3247	1	SLITHER SLIDE 2.0 SUPPORT LEG 5ft-6in	Certified	19.41			70	0	0.25	0.03	0
17	ZZUN3256	1	SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in	Certified	12.81			59	0	0.25	0.03	0
18	ZZPM4570	1	PLAYSEAT	Certified	51.03			286	3	0.50	0.00	1
19	ZZPM4648	1	POST MOUNT SCAVENGER HUNT	Certified	17.30			271	3	2.00	0.00	1
20	ZZPM4671	1	PM PANEL FRAME- DECK LEVEL	Certified	46.46			205	0	1.00	0.00	0
21	ZZUN4673	1	A-MAZE-ING INSERT	Certified	14.51			198	2	0.25	0.00	1
22	ZZPM4288	2	ACCESS GATE	Certified	68.76			183	0	1.00	0.00	0
23	ZZPM4706	1	VERTICLIMBER 96in	Certified	151.80			105	2	1.50	0.13	1



ASHLEY FALLS PRIMARY

Design Number: C21136PM - Compliance and Technical Data

Reference Document: ASTM F1487







Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
24	ZZPM6989	1	INCLINED CLIFF HANGER (72in DECK)	Certified	178.50			707	2	2.50	0.06	1
25	ZZPM6997	1	GEO VERTICAL CLIMBER (60in DK)	Certified	85.30			259	2	1.00	0.00	1
26	ZZPM7167	1	8ft TWISTED CLIMBER	Certified	142.07			263	2	2.00	0.60	1
27	ZZUN6070	1	BRANCH OUT TRUNK W/ SHADE CANOPY	Certified	1,951.70			4,113	4	16.00	4.57	1
28	ZZUN6072	1	BRANCH OUT BELT CONNECTOR	Certified	142.47			528	3	2.00	0.00	1
29	ZZUN6073	1	BRANCH OUT ROPE BRIDGE CONNECTOR	Certified	231.45			2,481	3	3.00	0.36	1
30	ZZUN6074	1	BRANCH OUT TWISTED NET CONNECTOR	Certified	134.10			550	4	2.00	0.00	1
31	ZZUN7896	1	BRANCH OUT HAMMOCK	Certified	122.56			2,637	8	3.00	0.28	1
32	ZZUN7897	1	BRANCH OUT CARGO NET	Certified	143.08			2,502	6	3.50	0.42	1
33	ZZUN7898	1	BRANCH OUT ZIG-ZAG	Certified	112.97			1,415	6	4.00	0.56	1
34	ZZUN8804	1	WOOD PILE	Certified	1,320.01			4,032	4	2.00	0.40	1
35	ZZBD0014	1	TOWER BOULDER	Certified	4,640.00			4,891	4	2.00	1.98	1
36	ZZPM4717	1	18ft SQUARE HAT SHADE	Certified	495.50			2,266	0	10.00	0.19	0
37	ZZPM9170	1	24in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	174.86			374	2	2.00	0.00	0
Totals:					13,022.81	1,183	2,359	34,597	86	92.25	11.67	19
					5,860.26 Kg	532 Kg	1,062 Kg	35 Metric Tons	8.87 m3			



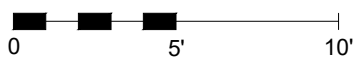
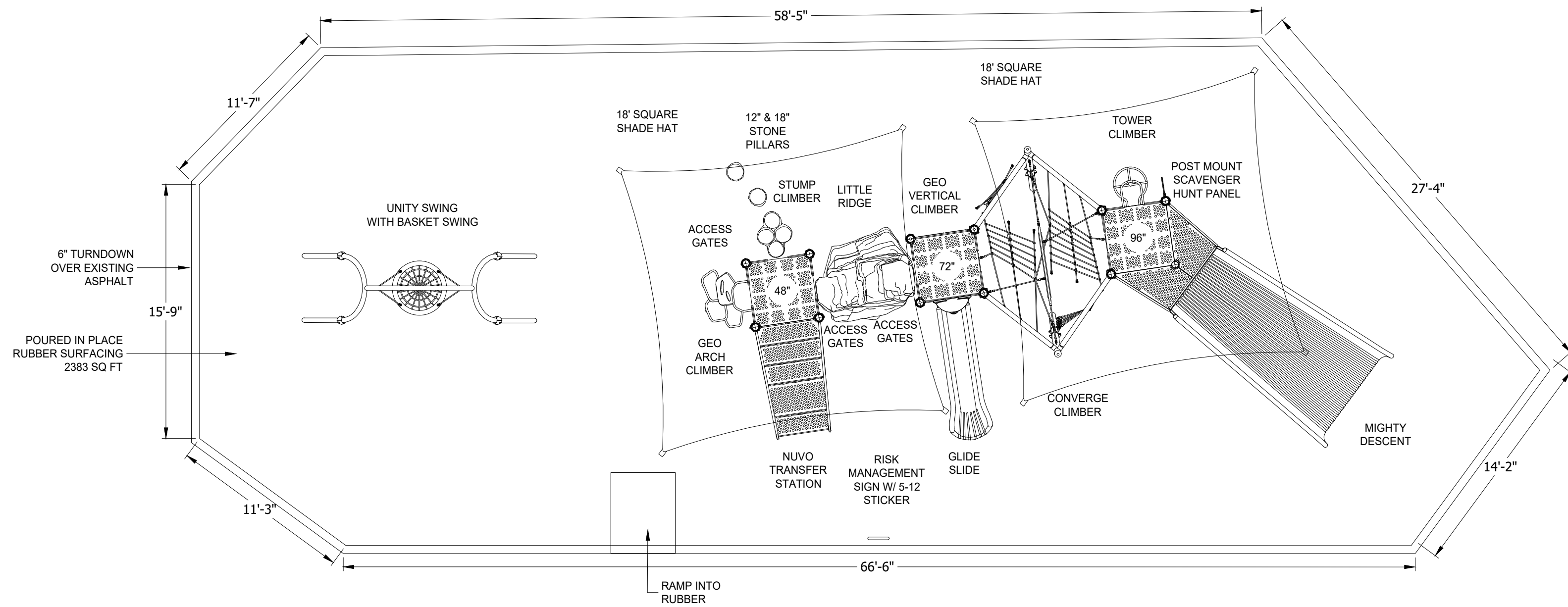
ASHLEY FALLS PRIMARY

Design Number: C21136PM - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
	ASTM F1487											
	The lay-out for this custom playscape, design number C21136PM, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org . In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.											
	2010 ADA Standards for Accessible Design											
	The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.											
	Installation Times											
	Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]											
	Carbon Footprint											
	The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.											
	Pre-Consumer Recycle Content											
	A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.											
	Post-Consumer Recycle Content											
	A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.											
	** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.											





TOTAL ELEVATED PLAY COMPONENTS:	8	
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY RAMP:	0	REQUIRED: 0
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY TRANSFER:	7	REQUIRED: 4
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN:	4	REQUIRED: 3
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS OF DIFFERENT TYPES:	3	REQUIRED: 3

* APPLICABLE ONLY WITH ADA COMPLIANT SURFACING.

PLAY STRUCTURE AND LAYOUT OF THE COMPONENTS CONFORM TO
ASTM F1487-17 AND CPSC #325 GUIDELINES AND CCR TITLE 22,
DIVISION 4 CHAPTER 22.

CRITICAL FALL HEIGHT OF OVERALL PLAY AREA: 96"

PROJECT:

ASHLEY FALLS UPPER YARD

SAN DIEGO, CA

DESIGNED BY:
ALEX BERON
FEBRUARY 21, 2022
DRAWING #
C21137PMR2 22

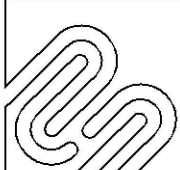
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5-12

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dave bang

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park+playground



ASHLEY FALLS UPPER YARD

Design Number: C21137PMR2 22 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0198	1	UNITY SWING FRAME	Certified	270.40			1,221	0	3.00	0.52	0
2	ZZXX0204	1	BASKET SWING	Certified	83.40			1,049	4	0.50	0.00	1
3	ZZPM0046	2	5in OD X 156in STEEL POST W/ RIVETED CAP	Certified	175.42			253	0	2.00	0.26	0
4	ZZPM0266	2	5in OD x 217in STEEL POST W/CAP	Certified	228.02			363	0	2.00	0.24	0
5	ZZPM0387	4	5in OD x 210in LARGE SHADE HAT POST- (72in & 84in DECK)	N/A	480.08			632	0	4.00	0.00	0
6	ZZPM0388	4	5in OD x 234in LARGE SHADE HAT POST- (96in & 108in DECK)	N/A	534.64			705	0	4.00	0.00	0
7	ZZPM0616	3	SQUARE COATED DECK ASSEMBLY	Certified	271.08			662	12	3.00	0.00	0
8	ZZPM0684	1	NUVO- 48in TRANSFER STATION	Certified	389.40			418	3	4.00	0.12	0
9	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44			678	2	1.50	0.03	1
10	ZZPM4695	1	MIGHTY DESCENT W/PRISM PASS	Certified	1,184.20			2,050	15	10.00	0.48	2
11	ZZPM4648	1	POST MOUNT SCAVENGER HUNT	Certified	17.30			271	3	2.00	0.00	1
12	ZZPM4288	3	ACCESS GATE	Certified	103.14			275	0	1.50	0.00	0
13	ZZPM4707	1	CONVERGE	Certified	751.10			1,491	10	9.00	0.38	1
14	ZZPM6998	1	GEO VERTICAL CLIMBER (72in DK)	Certified	98.81			307	2	1.00	0.00	1
15	ZZPM7006	1	GEO ARCH CLIMBER (48in DK)	Certified	72.67			190	1	2.00	0.06	1
16	ZZPM7170	1	8ft TOWER CLIMBER	Certified	126.96			277	2	2.00	0.90	1
17	ZZUN8805	1	STUMP CLIMBER	Certified	990.01			3,371	3	2.00	0.14	1
18	ZZUN8815	1	LITTLE RIDGE	Certified	3,850.01			7,450	6	3.00	1.15	1
19	ZZUN8811	1	12in STONE PILLAR	Certified	140.81			591	1	1.50	0.06	1
20	ZZUN8812	1	18in STONE PILLAR	Certified	160.89			591	1	1.50	0.06	1
21	ZZPM4717	2	18ft SQUARE HAT SHADE	Certified	991.00			4,532	0	20.00	0.38	0
22	ZZPM9726	1	PM SQUARE HAT POST BRACES	Certified	104.30			330	0	1.00	0.00	0
Totals:					11,187.08	965	1,997	27,704	65	80.50	4.78	13
					5,034.19 Kg	434 Kg	899 Kg	28 Metric Tons	3.63 m3			



ASHLEY FALLS UPPER YARD

Design Number: C21137PMR2 22 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
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ASTM F1487

The lay-out for this custom playscape, design number C21137PMR2 22, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

2010 ADA Standards for Accessible Design

The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

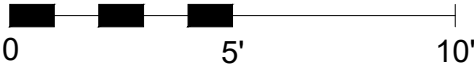
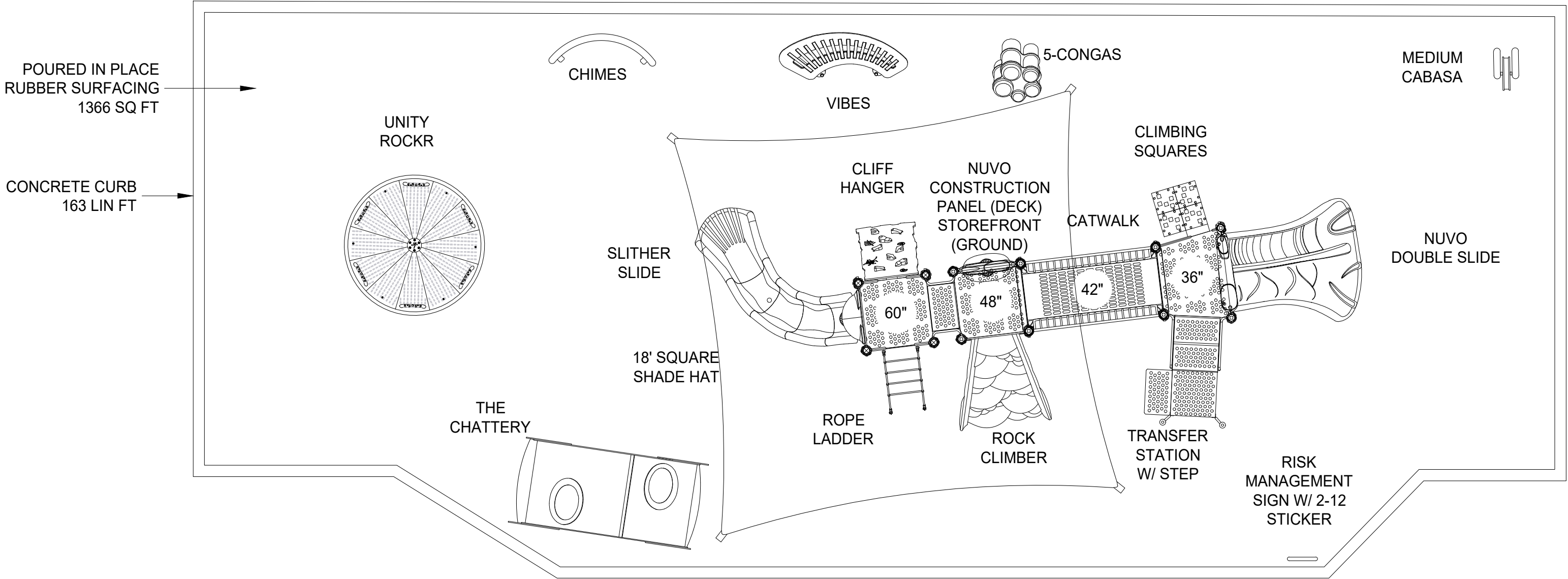
A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.





TOTAL ELEVATED PLAY COMPONENTS:	8	REQUIRED:	0
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY RAMP:	0	REQUIRED:	4
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY TRANSFER:	8	REQUIRED:	3
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN:	7	REQUIRED:	3
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS OF DIFFERENT TYPES:	4	REQUIRED:	3

* APPLICABLE ONLY WITH ADA COMPLIANT SURFACING.

PLAY STRUCTURE AND LAYOUT OF THE COMPONENTS CONFORM TO
ASTM F1487-17 AND CPSC #325 GUIDELINES AND CCR TITLE 22,
DIVISION 4 CHAPTER 22.

CRITICAL FALL HEIGHT OF OVERALL PLAY AREA: 60"

PROJECT

CARMEL DEL MAR KINDERGARTEN
SAN DIEGO, CA

DESIGNED BY:
ALEX BERON
NOVEMBER 22, 2021

DRAWING #
C21159CH

DESIGNED FOR
AGES
2-12

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CARMEL DEL MAR KINDERGARTEN

Design Number: C21559CH - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0193	1	UNITY ROCKR	Certified	498.42			1,380	6	4.00	0.18	1
2	ZZXX0661	1	CONCERTO MEDIUM CABASA	Certified	67.67			573	1	1.50	0.26	1
3	ZZXX0665	1	CONCERTO 5 CONGAS	Certified	72.50			2,497	2	1.00	0.12	1
4	ZZXX0666	1	CONCERTO VIBES	Certified	134.82			3,188	1	2.00	0.26	1
5	ZZXX0667	1	CONCERTO CHIMES	Certified	129.32			2,900	2	2.00	0.26	1
6	ZZXX0887	1	CHATTERY	Certified	587.50			1,480	10	10.00	0.48	2
7	ZZCH0018	2	3.5in OD x 124in STEEL POST W/RIVETED CAP	Certified	77.82			108	0	2.00	0.25	0
8	ZZCH0028	6	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	261.06			351	0	6.00	0.75	0
9	ZZCH0386	4	3.5in OD x 186in LARGE SHADE HAT POST (48in & 60in DECK)	N/A	400.44			295	0	4.00	0.00	0
10	ZZCH0616	2	SQUARE COATED DECK ASSEMBLY	Certified	109.72			348	6	2.00	0.00	0
11	ZZCH0636	1	DOUBLE SLIDE COATED DECK ASSEMBLY	Certified	63.86			185	3	1.00	0.00	0
12	ZZCH2008	1	TRANSFER STATION w/BARRIERS (36in DECK)	Certified	180.00			385	2	2.00	0.09	0
13	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83			72	1	1.00	0.04	0
14	ZZCH2805	2	ENTRY SUPPORT BRACKET	Certified	24.88			115	0	1.00	0.00	0
15	ZZCH3206	1	SLITHER SLIDE 2.0 ENTRANCE & EXIT	Certified	85.37			424	2	2.00	0.03	1
16	ZZCH3538	1	NUVO 36in DOUBLE SLIDE	Certified	157.29			683	2	2.00	0.06	1
17	ZZUN3208	3	SLITHER SLIDE 2.0 (RIGHT SECTION)	Certified	58.77			401	0	0.75	0.00	0
18	ZZUN3256	1	SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in	Certified	12.81			59	0	0.25	0.03	0
19	ZZCH4646	1	STORE FRONT PANEL	Certified	33.98			243	3	1.00	0.00	1
20	ZZCH4836	1	NUVO ACTIVITY PANEL	Certified	19.58			232	0	0.50	0.00	0
21	ZZUN4858	1	NUVO - CATACOMBS PANEL INSERT	Certified	24.02			256	1	0.50	0.00	1
22	ZZCH6988	1	INCLINED CLIFF HANGER (60in DECK)	Certified	126.00			535	1	2.00	0.06	1
23	ZZCH7087	1	CLIMBING SQUARES BLOCK CLIMBER (36in)	Certified	129.12			437	2	4.00	0.12	1
24	ZZCH7238	1	ROPE LADDER- 60in DECK	Certified	52.59			369	1	2.00	0.06	1
25	ZZCH7439	1	ROCK CLIMBER (48in DECK)	Certified	136.38			555	3	2.00	0.03	1



CARMEL DEL MAR KINDERGARTEN

Design Number: C21559CH - Compliance and Technical Data

Reference Document: ASTM F1487







Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
26	ZZCH7085	1	6ft CATWALK	Certified	235.56			433	2	4.00	0.00	1
27	ZZCH4717	1	18ft SQUARE HAT SHADE	Certified	555.70			2,344	0	10.00	0.18	0
28	ZZCH9168	1	12in ACCESS STEPPED PLATFORM (DECK TO DECK)	Certified	70.28			277	1	2.00	0.00	0
Totals:					4,341.29	702	1,315	21,122	52	72.50	3.26	16
					1,953.58 Kg	316 Kg	592 Kg	21 Metric Tons	2.48 m3			



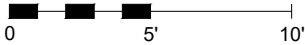
CARMEL DEL MAR KINDERGARTEN

Design Number: C21559CH - Compliance and Technical Data

Reference Document: ASTM F1487

Ref.	Unit	Total	Pre-Consumer	Post-Consumer	CO2e		Install	Concrete	Active
No. Part No. Qty. Description	ASTM Status	Weight (lbs)	Recycled Content (lbs)	Content (lbs)	Footprint (kgs)	Users	Hours	(Yds3)	Play Events
 ASTM F1487									
The lay-out for this custom playscape, design number C21559CH, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org . In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.									
 2010 ADA Standards for Accessible Design									
The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.									
 Installation Times									
Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]									
 Carbon Footprint									
The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.									
 Pre-Consumer Recycle Content									
A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.									
 Post-Consumer Recycle Content									
A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.									
** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.									



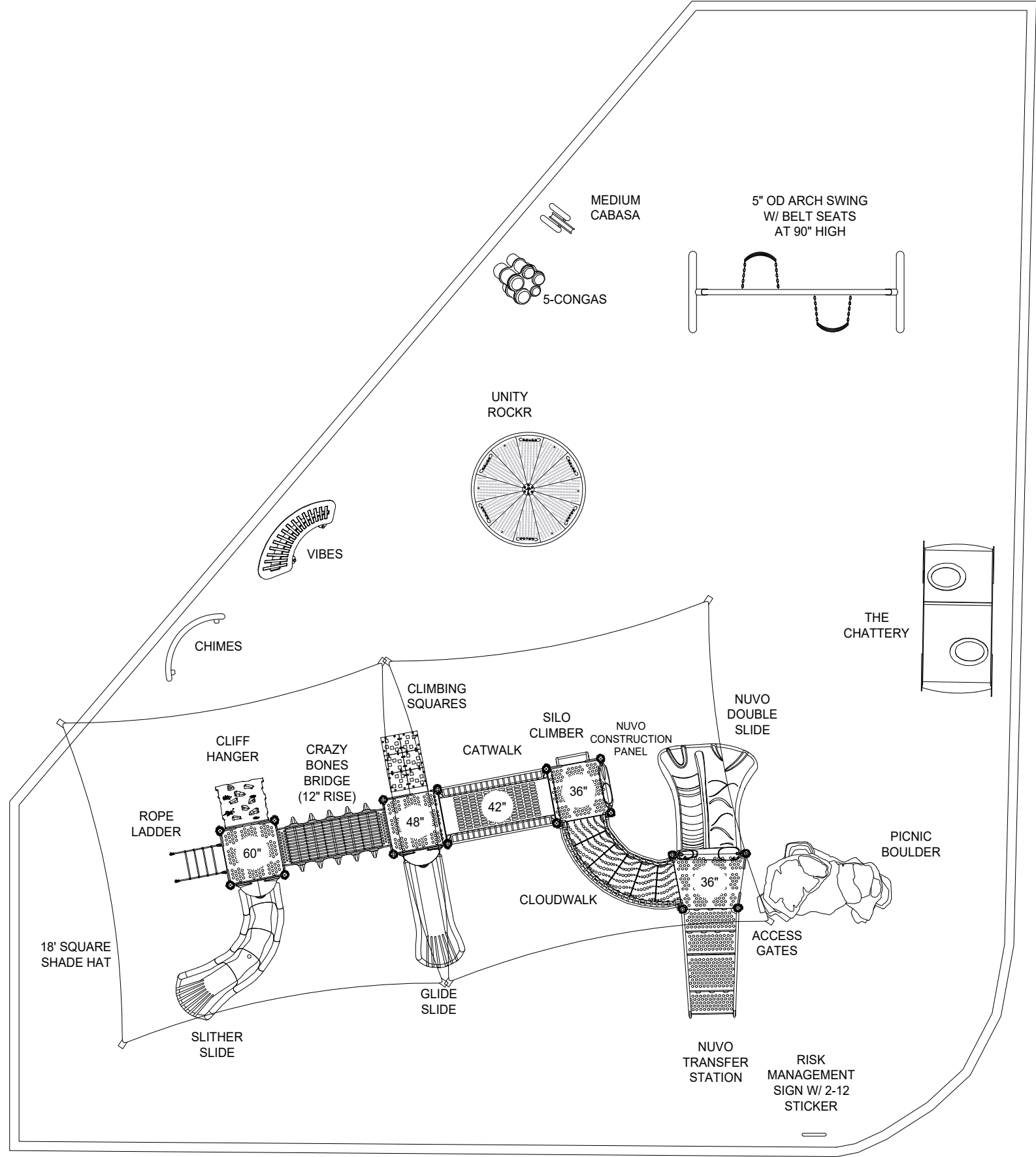


TOTAL ELEVATED PLAY COMPONENTS:	12	
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY RAMP:	0	REQUIRED: 0
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY TRANSFER:	12	REQUIRED: 6
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN:	7	REQUIRED: 4
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS OF DIFFERENT TYPES:	4	REQUIRED: 3

* APPLICABLE ONLY WITH ADA COMPLIANT SURFACING.

PLAY STRUCTURE AND LAYOUT OF THE COMPONENTS CONFORM TO
ASTM F1487-17 AND CPSC #325 GUIDELINES AND CCR TITLE 22,
DIVISION 4 CHAPTER 22.

CRITICAL FALL HEIGHT OF OVERALL PLAY AREA: 96"



PROJECT:

ASHLEY FALLS KINDERGARTEN

SAN DIEGO, CA

DESIGNED BY:

ALEX BERON

NOVEMBER 23, 2021

DRAWING #

C21562CH

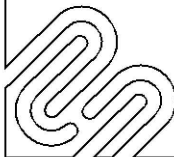
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ASHLEY FALLS KINDERGARTEN

Design Number: C21562CH - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0193	1	UNITY ROCKR	Certified	498.42			1,380	6	4.00	0.18	1
2	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60			108	2	0.50	0.00	2
3	ZZXX0661	1	CONCERTO MEDIUM CABASA	Certified	67.67			573	1	1.50	0.26	1
4	ZZXX0665	1	CONCERTO 5 CONGAS	Certified	72.50			2,497	2	1.00	0.12	1
5	ZZXX0666	1	CONCERTO VIBES	Certified	134.82			3,188	1	2.00	0.26	1
6	ZZXX0667	1	CONCERTO CHIMES	Certified	129.32			2,900	2	2.00	0.26	1
7	ZZXX0887	1	CHATTERY	Certified	587.50			1,480	10	10.00	0.48	2
8	ZZXX0931	1	5in OD 2-UNIT STEEL ARCH SWING- 8ft TOP RAIL	Certified	417.00			84	0	3.00	0.48	0
9	ZZCH0018	4	3.5in OD x 124in STEEL POST W/RIVETED CAP	Certified	155.64			215	0	4.00	0.50	0
10	ZZCH0028	4	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	174.04			234	0	4.00	0.50	0
11	ZZCH0386	4	3.5in OD x 186in LARGE SHADE HAT POST (48in & 60in DECK)	N/A	400.44			295	0	4.00	0.00	0
12	ZZCH0387	4	3.5in OD x 210in LARGE SHADE HAT POST (72in & 84in DECK)	N/A	453.24			333	0	4.00	0.00	0
13	ZZCH0616	3	SQUARE COATED DECK ASSEMBLY	Certified	164.58			521	9	3.00	0.00	0
14	ZZCH0636	1	DOUBLE SLIDE COATED DECK ASSEMBLY	Certified	63.86			185	3	1.00	0.00	0
15	ZZCH0683	1	NUVO- 36in TRANSFER STATION	Certified	236.61			418	2	3.50	0.12	0
16	ZZCH2805	2	ENTRY SUPPORT BRACKET	Certified	24.88			115	0	1.00	0.00	0
17	ZZCH3126	1	GLIDE SLIDE (48in DECK)	Certified	119.73			492	2	1.50	0.03	1
18	ZZCH3206	1	SLITHER SLIDE 2.0 ENTRANCE & EXIT	Certified	85.37			424	2	2.00	0.03	1
19	ZZCH3538	1	NUVO 36in DOUBLE SLIDE	Certified	157.29			683	2	2.00	0.06	1
20	ZZUN3208	3	SLITHER SLIDE 2.0 (RIGHT SECTION)	Certified	58.77			401	0	0.75	0.00	0
21	ZZUN3256	1	SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in	Certified	12.81			59	0	0.25	0.03	0
22	ZZCH4836	1	NUVO ACTIVITY PANEL	Certified	19.58			232	0	0.50	0.00	0
23	ZZUN4857	1	NUVO - CONSTRUCTION PANEL INSERT	Certified	30.80			401	1	0.50	0.00	1



ASHLEY FALLS KINDERGARTEN

Design Number: C21562CH - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled (lbs)	Post- Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
24	ZZCH4288	1	ACCESS GATE	Certified	17.34			65	0	0.50	0.00	0
25	ZZCH6988	1	INCLINED CLIFF HANGER (60in DECK)	Certified	126.00			535	1	2.00	0.06	1
26	ZZCH7088	1	CLIMBING SQUARES BLOCK CLIMBER (48in)	Certified	181.10			635	3	6.00	0.15	1
27	ZZCH7238	1	ROPE LADDER- 60in DECK	Certified	52.59			369	1	2.00	0.06	1
28	ZZCH7949	1	SILO CLIMBER (36in DECK)	Certified	70.33			129	1	1.50	0.06	1
29	ZZBD0013	1	PICNIC BOULDER	Certified	3,600.00			2,887	5	2.00	0.00	1
30	ZZCH6456	1	90 DEGREE CLOUD WALK	Certified	263.72			734	3	2.00	0.00	1
31	ZZCH6478	1	CRAZY BONES 6ft x 1ft RISE BRIDGE	Certified	292.40			1,964	2	4.00	0.00	1
32	ZZCH7085	1	6ft CATWALK	Certified	235.56			433	2	4.00	0.00	1
33	ZZCH4717	2	18ft SQUARE HAT SHADE	Certified	1,111.40			4,687	0	20.00	0.36	0
34	ZZCH9726	2	CH SQUARE HAT POST BRACES	Certified	149.48			560	0	2.00	0.00	0
Totals:					10,182.39	1,100	2,055	30,214	63	102.00	4.00	21
					4,582.08 Kg	495 Kg	925 Kg	30 Metric Tons	3.04 m3			



ASHLEY FALLS KINDERGARTEN

Design Number: C21562CH - Compliance and Technical Data

Reference Document: ASTM F1487

Ref.	Unit	Total	Pre-Consumer	Post-Consumer	CO2e		Install	Concrete	Active
No. Part No.	ASTM Status	Weight (lbs)	Recycled (lbs)	Content (lbs)	Footprint (kgs)	Users	Hours	(Yds3)	Play Events
Qty.	Description								

ASTM F1487

The lay-out for this custom playscape, design number C21562CH, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

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Installation Times

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** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.

