

## STAFF REPORT

APPLICATION NO:	FDP-02-2026		
HEARING DATE:	April 13, 2026	NEXT HEARING DATE:	May 11, 2026
NEWSPAPER NOTICE PUBLISHED ON:	NOTICES MAILED ON:		
SUBJECT:	Review of a Detailed (Final) Development Plan Amendment for Westfall Place PUD		
LOCATION:	Westfall Place PUD (residential single-family subdivision)		
PETITIONER(S):	Arbor Homes, Inc.; Innovative Engineering & Consulting, Inc.		
SUMMARY:	Commission to consider an Amendment to the Detailed Development Plan for Phase 1 of Westfall Place subdivision containing 41.35 acres and proposing 70 single family residential lots.		
WAIVERS REQUESTED:	None		
RECOMMENDATION:	Approval		
PREPARED BY:	Marcellus Johnson, Planning Administrator		
EXHIBITS:	Exhibit 1. Adopted Preliminary PUD Plan (Concept Plan) Exhibit 2. Approved Detailed Development Plan Exhibit 3. Application Exhibit 4. Playground Drawings and Specifications Exhibit 5. Pavilion Specifications		



## PROCEDURE

### What is Detailed (or Final) Development Plan Amendment?

Detailed Development Plan is defined as following, “The construction drawings incorporating all amendments and plans adopted at the Preliminary Development Plan hearing that sets the stage for approval of the Secondary Plat(s) as evidenced in a development plan.” In a PUD process, it’s the last step to approving a more detailed design of the development, particularly the design of the development features to be installed in the “public” or “common” areas. At this stage, a concept plan that was approved with the ordinance for Westfall Place PUD (Exhibit 1) is turned into a more detailed design.

After a Detailed Development Plan has already been approved, the developer may find that conditions on site or other circumstances might require revisions to the approved plan. This is where a Detailed Development Plan Amendment comes in.

### Application Process

Per Thorntown ZO § 152.15(O)(2), an amendment to an approved Development Plan shall be submitted to and reviewed by the Planning Administrator, may be reviewed by the Technical Advisory Committee, and shall be reviewed and approved by the Plan Commission in a *Public Hearing*. The original Detailed Development Plan (FDP-01-2024; Exhibit 2) was approved on December 9, 2024 with a commitment to apply for a Detailed Development Plan Amendment within 3 months of the recording of Phase 1’s secondary plat. The secondary plat was recorded on November 6, 2025. The submission of this proposal satisfies the applicant’s commitment to apply for a Detailed Development Plan Amendment. This application was received in full on February 27, 2026; staff determined that there was no need for TAC review.

### Application Decision

Per Thorntown ZO §152.15.C, the Planning Commission makes final decisions on Development Plans. Plan Commission shall review the Development Plans using the following criteria to base their findings on:

1. Compliance with all applicable development and design regulations of the zoning and any overlay zoning districts (e.g., Westfall Place PUD) where the development is proposed.
2. Compliance with all applicable site design and improvement regulations in subchapters 152.70-89 of this Ordinance.
3. The proposed development shall be compatible with the surrounding land uses.
4. Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:
  - a. The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
  - b. The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.
  - c. The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.
5. The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

This staff report summarizes whether the applicant met the standards. If the applicant meets all standards, then the Detailed Development Plan shall be approved.

**Conditions**

Per Thorntown ZO §152.15.L, *“Plan Commission may impose conditions on the approval of a Development Plan if the conditions are reasonably necessary to satisfy the development requirements specified in the zoning ordinance for approval of the Development Plan.”*

**Commitments**

Per Thorntown ZO §152.15.M, *“An applicant may be required or allowed to make a commitment to the Plan Commission as a condition to the use or development of real estate in connection with the approval of Development Plan. Such commitments shall be provided in accordance with IC 36-7-4-1015.”*

**PROPOSAL**

The proposal amends the approved detailed development plan for Phase 1 of the Westfall Place PUD (Exhibit 2), a zoning district, approved by the Thorntown Town Council on March 3, 2023 (ord. 03-2023; case # PUD-01-2022). The amendment details the playground equipment, seating, and a picnic shelter provided in the original Detailed Development Plan. The location of the pavilion and playground are identified on Exhibit 2 by blue clouds.

The details contained in this amendment were excluded from the original Detailed Development Plan because of volatility in the market. There was concern, particularly with the playground equipment, that between approval of the Detailed Development Plan in December 2024 and when it came time to install the equipment this year that prices would change and/or products would be discontinued.

**ANALYSIS**

**Playground**

The proposed playground contains 4 elevated play and 3 ground level activities suitable for children 2 to 12 years old and 6 elevated play and 8 ground level activities suitable for children 5 to 12 years old. The proposed design meets the following safety and accessibility standards:

Standard	Description	Standard Met?
ASTM F1487	Playground Equipment for Public Use Provides safety and performance requirements, including dimensional requirements for clearance and use zones to minimize risk of injury	Yes
CPSC Handbook for Public Playground Safety	Published by the US Consumer Product Safety Commission Provides voluntary guidelines for the design, construction, operation, and maintenance of safe playgrounds	Yes
Final Access Board Regulation	Final rule by the US Access Board on public right-of-way accessibility intended to help governments provide accessible pedestrian facilities; also known as PROWAG	Yes

The proposed design suggests a raised bed for the playground with a ramp to provide accessibility for visitors with wheeled equipment. It does not specify what material will be used for the ground surface of the playground, which does ultimately have an effect on the accessibility of the playground. See Exhibit 4 for the drawings and specifications. The drawings show the playground equipment as well as the clearance areas around the equipment. These areas must be cleared of any and all obstructions and tripping hazards such as large rocks, roots, and other equipment.

**Pavilion**

The amendment proposes a steel picnic shelter from Americana Outdoors, Inc. The shelter will be bolted to a concrete pad. All of the components needed for the shelter are shipped together as a kit, and the product is under a 25-year warranty for the steel; a 10-year warranty against peeling, cracking, blistering, or crazing of the surface finish; and a 1-year warranty against defects in the materials and workmanship.

## FINDINGS

Per Thorntown ZO §152.15.I, the Plan Commission shall review the Development Plans using the following criteria to base their findings on:

1. Compliance with all applicable development and design regulations of the zoning and any overlay zoning districts (e.g., Westfall Place PUD) where the development is proposed.

**Staff's finding:** *The proposal meets all applicable development and design requirements of the Zoning Ordinance.*

2. Compliance with all applicable site design and improvement regulations in subchapters 152.70-89 of this Ordinance.

**Staff's finding:** *The development meets site design and improvement regulations applicable to the scope of the detailed development plan application.*

3. The proposed development shall be compatible with the surrounding land uses.

**Staff's finding:** *The development is compatible with the surrounding land uses.*

4. Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:

- a. The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
- b. The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.
- c. The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.

**Staff's finding:** *This does not apply to this amendment.*

5. The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

**Staff's finding:** *This does not apply to this amendment.*

## CORRESPONDENCE

As of this writing, staff has not received written or verbal statements regarding this project from the interested parties.

## RECOMMENDATIONS

Staff recommends **APPROVAL** of application FDP-02-2026 because all Thorntown ordinance requirements are met, and the proposed design meets guidelines for safe and accessible playgrounds.

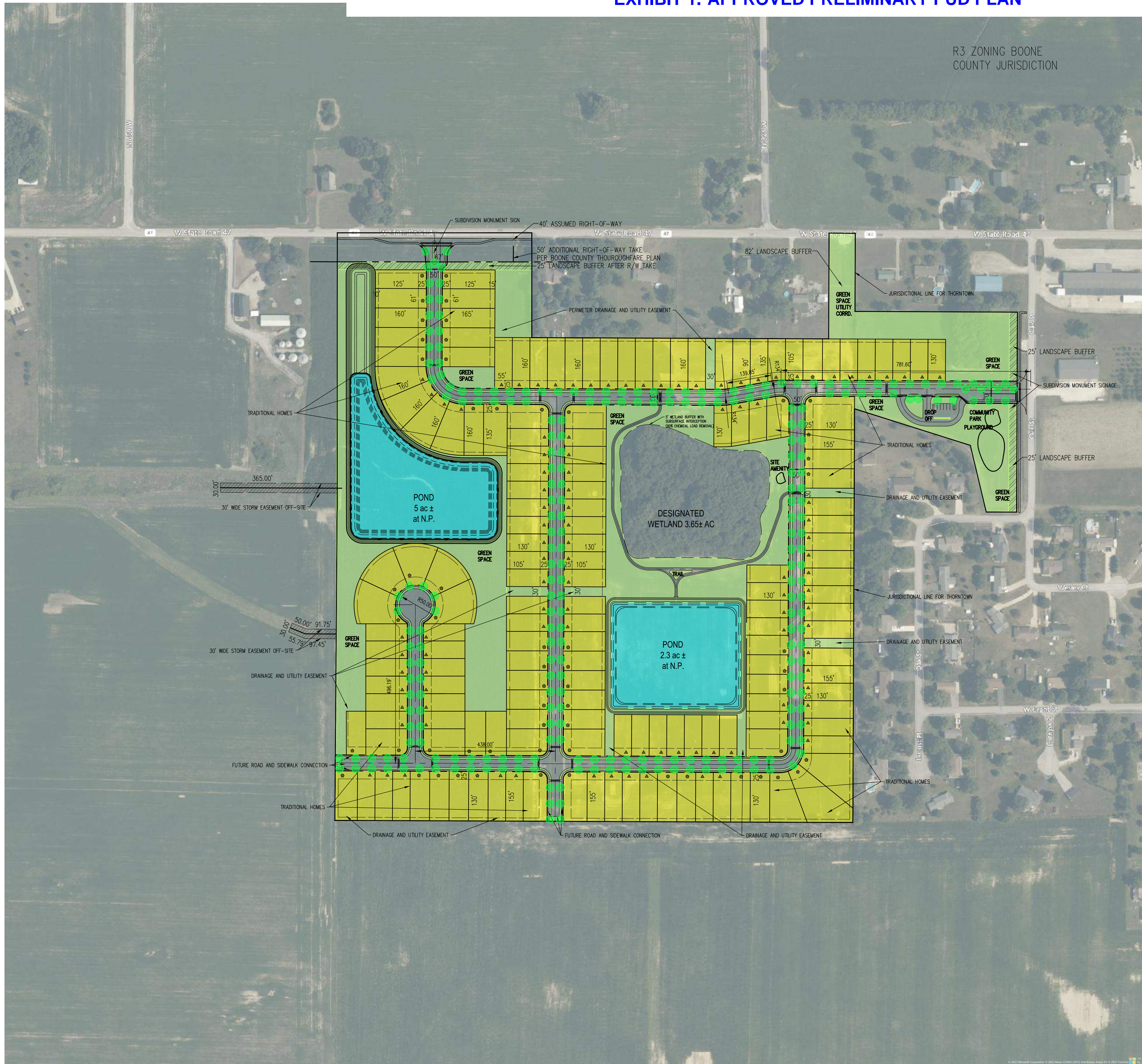
## MOTION OPTIONS

1. Motion to **approve** application FDP-02-2026.

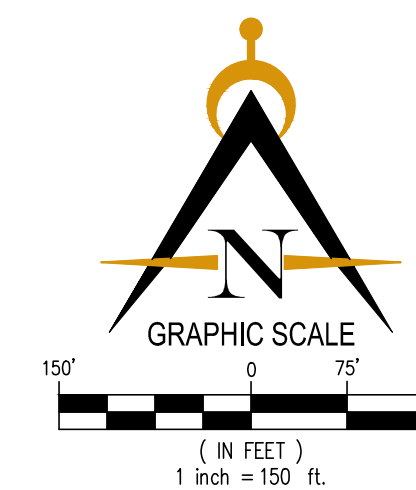
2. Motion to **deny** application FDP-02-2026. (**List reasons**)
3. Motion to **continue** the review of the application FDP-02-2026 until the next regular meeting on May 11, 2026, because... (**list reasons**).

Next Plan Commission meeting date(s): May 11, 2026

# EXHIBIT 1. APPROVED PRELIMINARY PUD PLAN



R3 ZONING BOONE COUNTY JURISDICTION



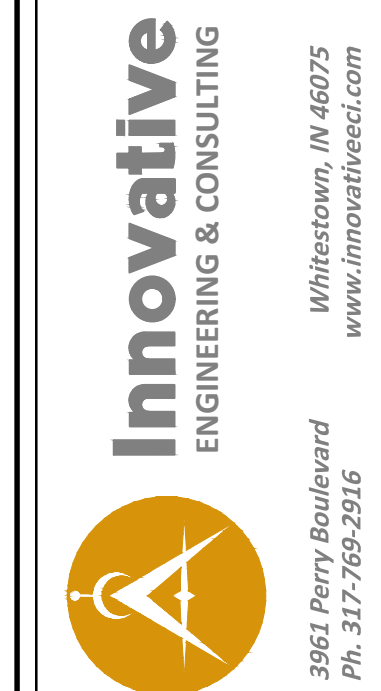
### LEGEND

- ▲ TRADITIONAL LOTS 55'x130'
  - ◆ TRADITIONAL WIDE LOTS 61'x130'
  - CORNER LOTS VARIABLE WIDTH AND DEPTH
  - BUILDING SETBACKS AT 25- FEET FROM RIGHT-OF-WAY 50- FEET PRIVATE STREETS
  - SIDEWALKS 5- FEET WIDE
  - TRAILS 10- FEET WIDE
  - PERIMETER DRAINAGE
  - REQUIRED STORMWATER EASEMENT OFF-SITE 30- FEET WIDE TO EXISTING DITCH ON PARCEL ADJOINER TO WEST AT TWO LOCATIONS
  - PROPOSED POND AREA DOES NOT INCLUDE DESIGNATED WETLAND
- 
- TRADITIONAL HOME LOTS
  - GREEN SPACE AND DRAINAGE/UTILITY AREA
  - 25- FOOT LANDSCAPE BUFFER
  - - - FRONT AND REAR SETBACK LINE
  - - - DRAINAGE AND UTILITY EASEMENT
  - - - APPROXIMATE SITE BOUNDARY
  - - - PAVEMENT CENTER LINE
  - - - NORMAL POOL ELEVATION

### SITE DEVELOPMENT TABLE

LOT MARKER	LOT SIZE WIDTH	NUMBER OF LOTS	PERCENT
▲	TRADITIONAL: 55- FEET	103	63%
◆	TRADITIONAL WIDE LOTS: 61- FEET	46	28%
●	CORNER LOTS: VARIABLE	14	9%
TOTALS:		163	100%
SITE ZONING:		MIXED RESIDENTIAL (PUD)	
SITE AREA (ACRES):		66.5	
TOTAL LOT AREA (ACRES):		32.5	
TRADITIONAL LOTS AREA (ACRES):		32.5	
HOUSING DENSITY LOTS PER ACRE:		2.5	
MINIMUM LOT WIDTH (LF):		55.0	
MINIMUM LOT AREA (SF):		7,150.0	
MINIMUM FRONT YARD (F):		25.0	
MINIMUM REAR YARD (F):		15.0	
MINIMUM SIDE YARD (F):		7 (2 CAR GARAGE)   5 (3 CAR GARAGE)	
PROPOSED RIGHT-OF-WAY AREA (ACRES):		7.9	
RIGHT-OF-WAY WIDTH LOCAL ROAD (F):		50.0	
RIGHT-OF-WAY WIDTH ENTRANCE (F):		107 (SR 47)   70 (OAK ST)	
LOCAL ROAD AREA (ACRES):		4.9	
LOCAL ROAD LENGTH (LF):		6,764.0	
TRAIL LENGTH (LF):		1,553.0	
TRAIL AREA (ACRES):		0.3	
TOTAL GREEN SPACE (ACRES):		20.9	
PERCENTAGE OPEN SPACE (ACRES):		31%	
TOTAL POND AREA AT NORMAL POOL (ACRES):		6.5	

CONCEPTUAL DESIGN BASED UPON SEVERAL BASE SOURCES AND IS INTENDED FOR DISCUSSION ONLY. PLAN MAY CHANGE AS EXISTING CONDITIONS ARE COLLECTED.



**Innovative**  
ENGINEERING & CONSULTING  
Whitestown, IN 46075  
3961 Perry Boulevard  
Ph. 317-769-2916  
www.innovativeci.com

PREPARED FOR:  
**Arbor Homes**  
9225 Harrison Park CT  
Indianapolis, Indiana 46216

THORNTOWN RESIDENTIAL  
**Westfall Place**  
8201 West State Road 47, Thorntown, Indiana 46071  
OVERALL SITE PLAN

DATE:	2/8/2023	DRAWN BY:	WCS
ISSUED:		CHECKED BY:	JWK
JOB NUMBER:	22101		
SHEET #	CP5		

File Path Name: I:\Jobs\2022\22101 - Thorntown Due Diligence\Drawings\Concept\PLAN 5 - Alternate no Genesis.dwg - Date: Feb 08, 2023 - 2:35pm

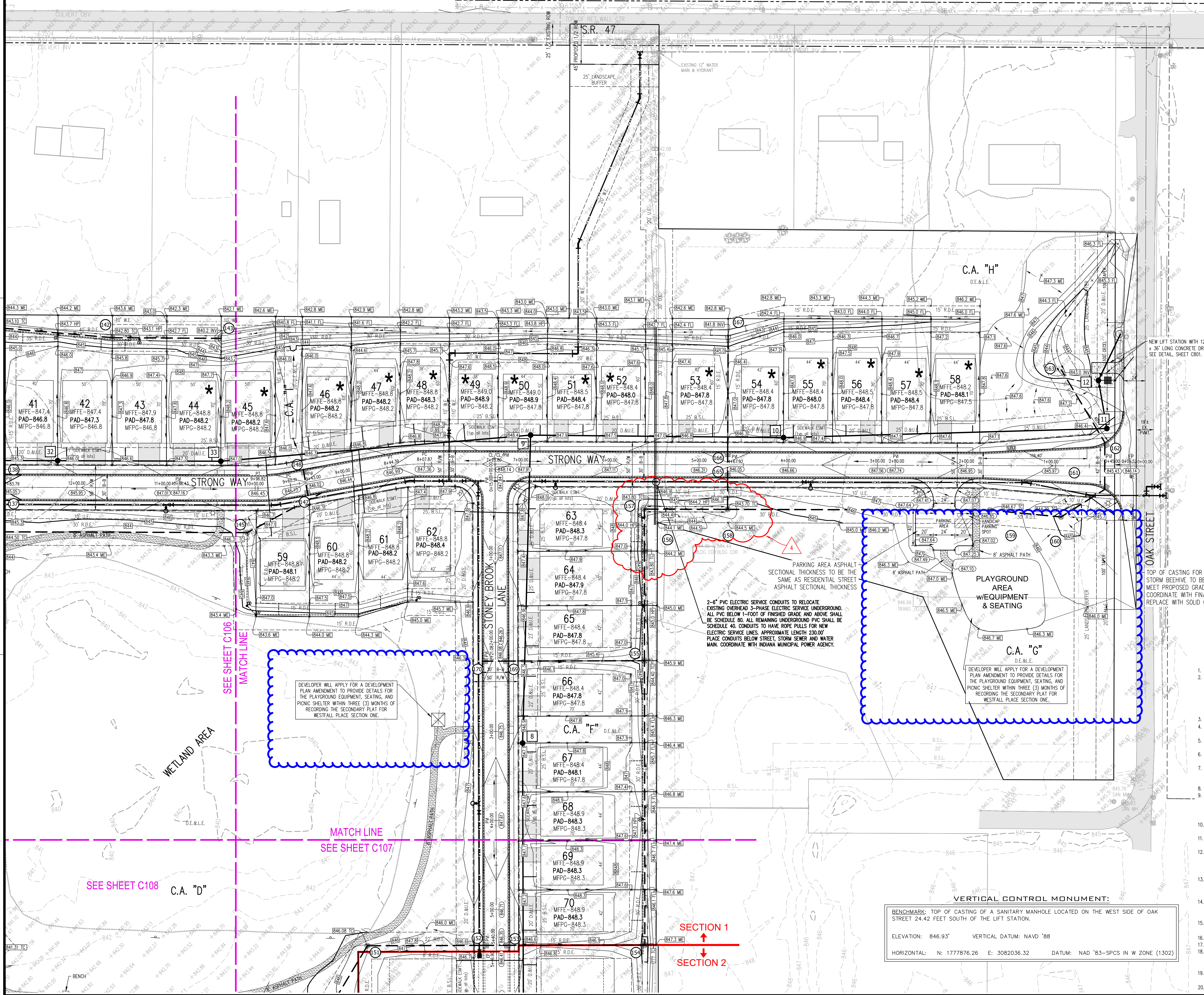
# EXHIBIT 2. APPROVED DEVELOPMENT PLAN



GRAPHIC SCALE  
1 inch = 50 ft.

### LEGEND

- Existing Storm Sewer
  - New Storm Sewer
  - Existing Sanitary Sewer
  - New Sanitary Sewer
  - Existing Contour
  - Existing Elevation
  - New Pavement Grade
  - All Other Finish Grades
  - Match Existing Swale Grade
  - Storm Structure Number
  - Sanitary Structure Number
- 
- Denotes Approximate Pad Size
  - MFFE-000.0 Minimum Finish Floor Elevation
  - PAD-000.0 Pad Elevation
  - MFFG-000.0 Minimum Flood Protection Grade
- 
- Proposed Driveway Location
  - Flow Arrow
  - 6" Subsurface Drain w/Cleanout Riser
  - 6" Flat-bottom Swale
  - New Water Main
  - New Fire Hydrant
  - New Water Valve
  - Existing Gas Main
  - Existing Telephone
  - Existing Water Main
  - Existing Flowline
  - Existing Overhead Utilities
  - Existing Water Main
  - Existing Fire Hydrant
  - Existing Water Esmt.
  - Utility & Drainage Esmt.
  - Building Setback Line
  - Tree Protection Line
  - Drainage & Utility Esmt.
  - Drainage Easement
  - Regulated Drainage Easement
  - Utility Easement
  - Water Easement
  - Landscape Easement
  - Building Setback Line
  - Street Light
  - \* "Non-Basement" Lot (Sub construction only)
  - Pond Warning Sign



TOP OF CASTING FOR EXISTING STORM BEHIVE TO BE ADJUSTED TO MEET PROPOSED GRADE AT 845.94 COORDINATE WITH FINAL GRADING & REPLACE WITH SOLID CASTING.

2-4" PVC ELECTRIC SERVICE CONDUITS TO RELOCATE EXISTING OVERHEAD 3-PHASE ELECTRIC SERVICE UNDERGROUND. ALL PVC BELOW 1-FOOT OF FINISHED GRADE AND ABOVE SHALL BE SCHEDULE 80. ALL REMAINING UNDERGROUND PVC SHALL BE SCHEDULE 40. CONDUITS TO HAVE ROPE PULLS FOR NEW ELECTRIC SERVICE LINES. APPROXIMATE LENGTH 230.00' PLACE CONDUITS BELOW STREET, STORM SEWER AND WATER MAIN. COORDINATE WITH INDIANA MUNICIPAL POWER AGENCY.

PARKING AREA ASPHALT SECTIONAL THICKNESS TO BE THE SAME AS RESIDENTIAL STREET ASPHALT SECTIONAL THICKNESS

PLAYGROUND AREA W/EQUIPMENT & SEATING

DEVELOPER WILL APPLY FOR A DEVELOPMENT PLAN AMENDMENT TO PROVIDE DETAILS FOR THE PLAYGROUND EQUIPMENT, SEATING, AND PAVEMENT WITHIN THREE (3) MONTHS OF RECORDING THE SECONDARY PLAN FOR WESTFALL PLACE SECTION ONE.

DEVELOPER WILL APPLY FOR A DEVELOPMENT PLAN AMENDMENT TO PROVIDE DETAILS FOR THE PLAYGROUND EQUIPMENT, SEATING, AND PAVEMENT WITHIN THREE (3) MONTHS OF RECORDING THE SECONDARY PLAN FOR WESTFALL PLACE SECTION ONE.

### GENERAL NOTES

1. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
2. IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THEIR PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
3. STANDARD SPECIFICATIONS FOR TOWN OF THORNTOWN SHALL APPLY FOR ALL SANITARY SEWERS.
4. STANDARD SPECIFICATIONS FOR THE BOONE COUNTY SURVEYOR'S OFFICE SHALL APPLY FOR ALL STORM SEWERS.
5. ANY PART OF THE WATER OR SANITARY SEWER TRENCHES RUNNING UNDER PAVED AREAS ARE TO BE BACKFILLED WITH GRANULAR MATERIAL.
6. ANY PART OF THE STORM SEWER TRENCHES RUNNING UNDER PAVED AREAS ARE TO BE BACKFILLED WITH NO. 8 STONE GRANULAR MATERIAL.
7. THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FILED LOCATION SERVICES.
8. CONCRETE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY HOME BUILDERS.
9. EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
10. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
11. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
12. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED BUILDING PADS. ALL EXISTING FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR PONDS WITH A POSITIVE OUTLET. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
13. ALL FILL AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557). FILL UNDER THE FOOTING SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557).
14. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO START OF CONSTRUCTION. IF ANY EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
15. ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM 8' SEPARATION BETWEEN THE MAIN AND SEWER STRUCTURES AND A MINIMUM OF 10' BETWEEN WATER, SANITARY, AND STORM PIPE.
16. THERE ARE TO BE NO VALVES OR MANHOLES WITHIN PAVEMENT, CURBS, SIDEWALKS, OR TRAILS.
17. ALL MAIN AND LATERAL ROAD CROSSINGS SHALL BE FULL DEPTH GRANULAR BACKFILL.
18. FIRE HYDRANTS ARE DIAGRAMMATIC AS TO LOCATION RELATIVE TO WALK AND PROPERTY LINES. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN THE SIDEWALK AND CURB SO AS TO NOT INTERFERE WITH THE SIDEWALK AND PROVIDE A MINIMUM 18" CLEARANCE FROM BACK OF CURB.
19. SECTION 1 IS EXPECTED TO HAVE A BALANCE OF DIRT UNTO USEFUL WITH NO DIRT NEEDING TO BE PLACED IN FUTURE SECTIONS.
20. ALL EXTERIOR CONCRETE (CURBS, SIDEWALKS, DRIVES, ETC.) SHALL BE AIR-ENTRAINED.

VERTICAL CONTROL MONUMENT:

BENCHMARK: TOP OF CASTING OF A SANITARY MANHOLE LOCATED ON THE WEST SIDE OF OAK STREET 24.42 FEET SOUTH OF THE LIFT STATION.

ELEVATION: 846.93' VERTICAL DATUM: NAVD '88

HORIZONTAL: N: 1777876.26 E: 3082036.32 DATUM: NAD '83-SPCS IN W ZONE (1302)

SECTION 1  
SECTION 2

File Path Name: I:\Jobs\2022\22101 - Thornton Due Diligence\Draws\C105-C08 Development Plan.dwg - Date: Nov 04, 2024 - 6:19am

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3961 Perry Boulevard  
Whitestown, IN 46075  
Ph: 317-669-2916

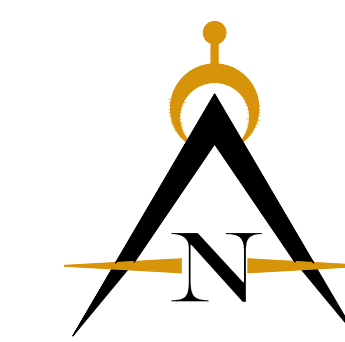
REVISIONS:

1	11/09/2024	M.S. - CIVIL/ARCHITECTURAL COMMENTS
2	11/25/2024	M.S. - REMOVE LEFT STATION PLUS VALUES PER DCM COMMENTS
3	11/27/2024	M.S. - REMOVE PER BOONE COUNTY SURVEYOR'S OFFICE REVIEWER COMMENTS

Arbor Homes  
9225 Harrison Park Court  
Indianapolis, Indiana 46216

Westfall Place  
Section One  
8401 West State Road 47, Thornton, Indiana 46071  
Development Plan

PROFESSIONAL ENGINEER  
No. 116600759  
STATE OF INDIANA  
DATE: 11/1/2024  
DRAWN BY: kkw  
ISSUED: CHECKED BY:  
JOB NUMBER: 22101  
SHEET # C105



GRAPHIC SCALE  
(IN FEET)  
1 inch = 50 ft.

**LEGEND**

- Existing Storm Sewer
- New Storm Sewer
- Existing Sanitary Sewer
- New Sanitary Sewer
- Existing Contour
- Existing Elevation
- New Pavement Grade
- All Other Finish Grades
- Match Existing Swale Grade
- Storm Structure Number
- Sanitary Structure Number

Denotes Approximate Pad Size  
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 MFG-000.0

**Proposed Driveway Location**

- Flow Arrow
- 6" Subsurface Drain w/Cleanout Riser
- 6" Flat-bottom Swale
- New Water Main
- New Fire Hydrant
- New Water Valve
- Existing Gas Main
- Existing Telephone
- Existing Water Main
- Existing Fireline
- Existing Overhead Utilities
- Existing Water Main
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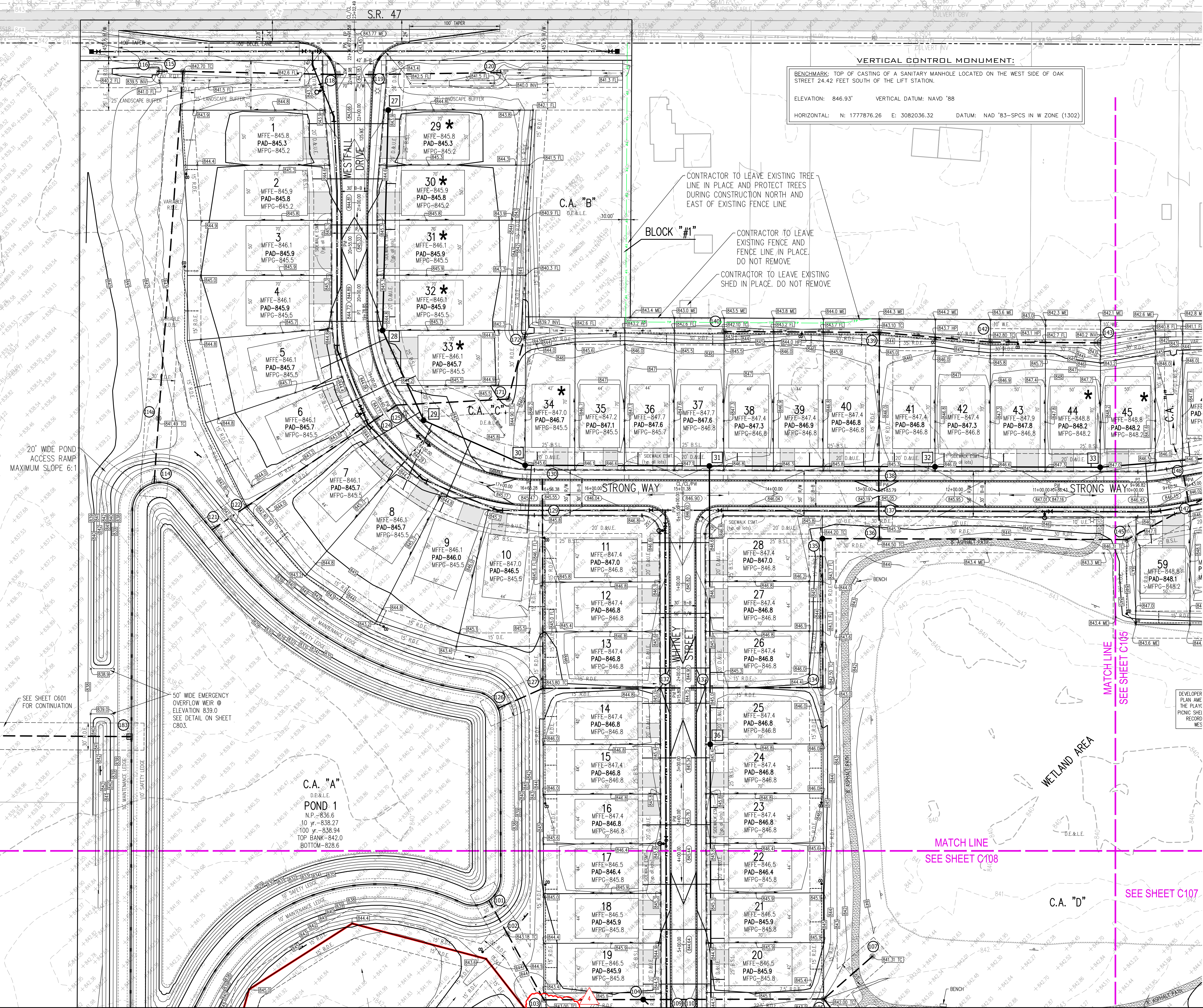
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 HORIZONTAL: N: 1777876.26 E: 3082036.32 DATUM: NAD '83-SPCS IN W ZONE (1302)

CONTRACTOR TO LEAVE EXISTING TREE LINE IN PLACE AND PROTECT TREES DURING CONSTRUCTION NORTH AND EAST OF EXISTING FENCE LINE

BLOCK "#1" CONTRACTOR TO LEAVE EXISTING FENCE AND FENCE LINE IN PLACE. DO NOT REMOVE  
 CONTRACTOR TO LEAVE EXISTING SHED IN PLACE. DO NOT REMOVE



MATCH LINE SEE SHEET C105

MATCH LINE SEE SHEET C108

SEE SHEET C107

C.A. "A"  
 D.E.&L.E.  
 POND 1  
 N.P. - 836.27  
 10 yr - 838.27  
 100 yr - 838.94  
 TOP BANK - 842.0  
 BOTTOM - 828.6

**Innovative**  
 ENGINEERING & CONSULTING

Whitestown, IN 46075  
 3961 Perry Boulevard  
 Ph: 317-669-2916

REVISIONS:

1	11/11/2024	M.S. - CAG/AR/AR/CALITY COMMENTS
2	11/11/2024	M.S. - REMOVE LEFT STATION PLUS VALUES PER DOK COMMENTS
3	11/11/2024	M.S. - REMOVE PER BOONE COUNTY SURVEYOR'S OFFICE REVIEWER COMMENTS

Arbor Homes  
 9225 Harrison Park Court  
 Indianapolis, Indiana 46216

Westfall Place  
 Section One  
 8401 West State Road 47, Thornstown, Indiana 46071  
 Development Plan

PROFESSIONAL ENGINEER  
 No. 116600759  
 STATE OF INDIANA  
 DATE: 11/1/2024  
 DRAWN BY: kkw  
 CHECKED BY:  
 JOB NUMBER: 22101  
 SHEET # C106

### DEVELOPMENT PLAN (DP) APPLICATION

\*Required sections to fill out

**Application type\*:**

- PUD/Subdivision Detailed DP
- Individual Lot DP
- DP Amendment

**For office use only:**

App No: FDP-02-2026  
 Date received: 2/27/2026  
 App fee: \$2,250  
 Fee paid by:  Cash  Check  
 Check #: 00009441

### PROPERTY INFORMATION\*

**Project Name:** West Fall Place

**Address/Location:** 8401 West State Road 47, Thorntown, In 46071

**County Parcel(s) ID(s):** 06-13-34-00-033.000-01406-13-34-000-001.001-014, 06-09-03-000-013.000-014, 06-09-03-000.015  
06-13-34-000-002.006-015, 06-13-34-000-002.005-015, 06-13-34-000-002.004-015, 06-13-34-000.016

**Current Zoning:** Residential **Project Size:** 41.4 **Acres**

**Current Use:** residential

**Proposed Use:**  Residential  Commercial  Industrial  Institutional  Mixed Use

**Proposed Use Description:** get approval of Play play ground app

**New public ways proposed?**  Yes  No **Length of proposed public way** \_\_\_\_\_ **Miles**  
 If yes, please describe regulations that the waiver is requested

**Waiver(s) Requested?**  Yes  No **for below. Attach additional sheets if needed.**

### PRIOR OR RELATED CASES Not applicable

**Rezone/PUD** Pud-01-2022; Ordinance no. 2023-05 **Primary plat:** Plat -02-2023

**Variance(s):** \_\_\_\_\_ **Secondary plat:** Plat -02-2024

**Dev. Plan:** FDP - 01 - 2024

## DEVELOPMENT PLAN (DP) APPLICATION

*\*Required sections to fill out*

**Application type\*:**

- PUD/Subdivision Detailed DP
- Individual Lot DP
- DP Amendment

**For office use only:**

App No: \_\_\_\_\_  
Date received: \_\_\_\_\_  
App fee: \_\_\_\_\_  
Fee paid by:  Cash  Check  
Check #: \_\_\_\_\_

### PROPERTY INFORMATION\*

**Project Name:** Westfall Place

**Address/Location:** West SR 47 (Main Street)

**County Parcel(s) ID(s):** 06-09-03-000-012.000-014, 06-13-34-000-001.001-014  
Section 3 T 20N and 19N R2W

**Current Zoning:** PUD **Project Size:** 41.35 **Acres**

**Current Use:** \_\_\_\_\_

**Proposed Use:**  Residential  Commercial  Industrial  Institutional  Mixed Use

**Proposed Use Description:** Single family lots

**New public ways proposed?**  Yes  No **Length of proposed public way** \_\_\_\_\_ **Miles**

**Waiver(s) Requested?**  Yes  No **If yes, please describe regulations that the waiver is requested for below. Attach additional sheets if needed.**

### PRIOR OR RELATED CASES Not applicable

**Rezone/PUD** PUD 01-2022 Final Ordinance 2023-05 **Primary plat:** \_\_\_\_\_

**Variance(s):** \_\_\_\_\_ **Secondary plat:** Westfall Place Section One

**Dev. Plan:** FDP 01-2024 Review of playground equipment

### PROPERTY OWNER INFORMATION\*

Name: Domain Timberlake Multistate 2

Mailing address: 590 Madison Ave 13th floor

City/Town: New York, NY Zip code: 10022

Email: brock.sears@yourarborhome.com Phone #: 317-501-0464

### APPLICANT INFORMATION\* Same as owner

Name: Jerry Kittle Title: Director of Engineering

Company name: Innovative Engineering & Consulting, Inc.

Mailing address: 3961 Perry BL

City/Town: Whitestown Zip code: 406075

Email: jkittle@innovativeeci.com Phone #: 317-769-2916

### SURVEYOR/ENGINEER INFORMATION\* Same as applicant

Name: Jerry Kittle Title: Director of Engineering

Company name: Innovative Engineering & Consulting, Inc.

Mailing address: 3961 Perry BL

City/Town: Whitestown Zip code: 46075

Email: jkittle@innovativeeci.com Phone #: 317-769-2916

### ATTORNEY INFORMATION

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Company name: \_\_\_\_\_

Mailing address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip code: \_\_\_\_\_

Email: \_\_\_\_\_ Phone #: \_\_\_\_\_

TOWN OF THORNTOWN  
101 W. Main St., Thorntown, IN 46071  
Planning@thorntown.in.gov

## APPLICANT AFFIDAVIT

STATE OF Indiana

COUNTY OF Boone S.S.

The undersigned, having been duly sworn on oath, states that the information in the Application is true and correct as they are informed and believe.

Applicant printed name: Jerry Kittle

Applicant signature: 

Subscribed and sworn to before me this 29th day of September, 2023.



Notary printed name: William Carl Swanson

Notary signature: 

My commission expires: 6 August 2031

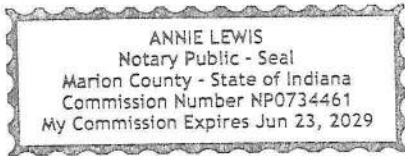
**OWNER AFFIDAVIT**

STATE OF INDIANA  
COUNTY OF MARION S.S.

The undersigned, having been duly sworn on oath, states that they are the Owner of the Property involved in this application and that they hereby acknowledge and consent to the forgoing Application.

Owner printed name\*\*: Taylor Day Clayton Properties Group  
DBA Arbor Homes  
Owner signature\*\*: [Signature]

Before me the undersigned, a Notary Public in and for said County and State, personally appeared the Property Owner, who having been duly sworn acknowledged and consents to the execution of the foregoing Application. Subscribed and sworn to before me this 15 day of DECEMBER, 2025.



Notary printed name: ANNIE LEWIS  
Notary signature: [Signature]  
My commission expires: JUNE 23, 2029

*\*\* A signature from each party having interest in the property involved in this application is required. If the Property Owner's signature cannot be obtained on the application, then a notarized statement by each Property Owner acknowledging and consenting to the filing of this application is required with the application.*

**Great Lakes Recreation Co., LLC**

PO Box 295  
 Zeeland, MI 49464 US  
 (616) 499-7400  
 accounting@glrec.com



**Estimate**

ADDRESS  
 Reilly Schlosser  
 Arbor Homes

SHIP TO  
 Reilly Schlosser  
 Arbor Homes  
 Thorntown, IN

ESTIMATE 6488  
 DATE 04/28/2025  
 EXPIRATION DATE 04/01/2026

REP NAME  
 Alliee Reeves-Ingram

ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
	Arbor homes - Thorntown, IN Space measurement - 77x100			
Equipment - Tikes	Equipment - Tikes Double bay swing 2 belt swings 2 tot swings Spinner 2-12 Structure 5-12 Structure 2 - 6 ft benches 1 - Garbage RECEPTACLE	1	59,172.00	59,172.00T
Equipment - other	Equipment - other Timbers and APS Sidewalk Mount Half Ramp Freight included	1	2,406.25	2,406.25T
Equipment - other	Equipment - Shelter Navajo Structure: Standard Frame Color, 12.000 ft wide, 12.000 ft long 4 Posts, 8.000 ft eve height, 4:12 roof pitch Roof Panels: 24 inch Pan Width, Aluminum , .038 inch, Standard Pan Color Extruded Aluminum Gutter Fascia & Ridge Caps. Freight Included	1	21,000.00	21,000.00T
Contractors- Concrete	Concrete pad with footers for the shelter	1	6,875.00	6,875.00T
Surfacing - EWF	Surfacing - EWF 12 inch depth	1	16,700.00	16,700.00T
Freight	Freight from Monett, MO to Thorntown, IN Little Tikes Commercial Equipment	1	2,200.00	2,200.00T
Installation	CPSI Installation of listed equipment and features. This will be increased if the space is not prepared for install. Excavation is not included in this price.	1	25,000.00	25,000.00T

TERMS: Net % 30 days, 50% down payment required. Payment in full required on orders under \$5,000 (Does not apply to government customers). Tax Exempt/Resale Certificate Required. Initial \_\_\_\_\_.

PLEASE NOTE: Customer is required to verify that quantities, colors, and mounting styles are accurate according to the project plans and/or specifications for all equipment and safety surfacing.

DELIVERY: Delivery is approximately 12 weeks after order is received and approved. Installation date TBD (if included). Customer is responsible for offloading the truck if we are not providing installation. Initial \_\_\_\_\_.

INSTALLATION: Please Note that installation is not included unless otherwise noted above. If installation is included, price assumes that the site has been prepared and that grade slope does not exceed 1 - 2% in any direction. Grade work and drainage improvements/lines are not included unless specifically listed above. Please turn off sprinkler systems 1 week prior to installation to avoid site damage due to wet ground. Initial \_\_\_\_\_.

DISCLAIMER: Unless specifically listed in the quote above, payment/performance bonds, permits, prevailing wages, sealed engineered drawings, TDLR registration/inspection, and 3rd party safety audits are Not Included in this agreement and, if required, are the responsibility of the customer. A 3% fee will be added for any payments by credit card. Initial \_\_\_\_\_.

ROCK CLAUSE: In the event that soil or rock conditions are such to prevent normal installation time and procedures, the customer will be responsible for additional equipment, labor expenses and delay costs required to complete the installation. Should the situation arise, the problem will be discussed with the customer prior to incurring any additional cost. Initial \_\_\_\_\_.

SITE SECURITY: site security is not provided. Customer is responsible for site security during installation of equipment and safety surfacing. Pour in place and turf safety surfaces may not be walked on for 48 hours after installation. This is the customer's responsibility unless otherwise noted. Initial: \_\_\_\_\_

UNDERGROUND UTILITY CLAUSE: The customer hereby agrees that Play On Holdings (DBA Great Lakes Recreation or Boyce Recreation or North East Recreation), its employees and/or subcontractors, are not liable for any damage done to any type of underground utilities on the site chosen by the customer unless the customer has had these lines accurately marked prior to installation. The customer further agrees that without properly marked utility lines, the customer shall be responsible for costs

incurred to repair any damaged utilities, all costs for medical treatment in the event of injury and any related costs due to delay in the project. It shall be the sole responsibility of the customer to mark, have marked, or hire a professional to establish any and all utility locations prior to Play On Holdings (DBA Great Lakes Recreation or Boyce Recreation or North East Recreation), its employees and/or subcontractors starting the project. In the event that Play On Holdings (DBA Great Lakes Recreation or Boyce Recreation or North East Recreation), its employees and/or subcontractors start the project before utilities have been located and properly marked, the customer shall again be liable and shall notify Play On Holdings (DBA Great Lakes Recreation or Boyce Recreation or North East Recreation, in writing to stop the project until the utilities have been marked. The customer shall further be responsible for any cost incurred due to work stoppage or project delays. Installation is only available Monday-Friday during standard daytime business hours.

Initial \_\_\_\_\_.

Name and email address where invoice should be sent \_\_\_\_\_.

SUBTOTAL	133,353.25
TAX	9,334.73
TOTAL	<b>\$142,687.98</b>

Accepted By

Accepted Date

# GENERAL NOTES

## AGE GROUP

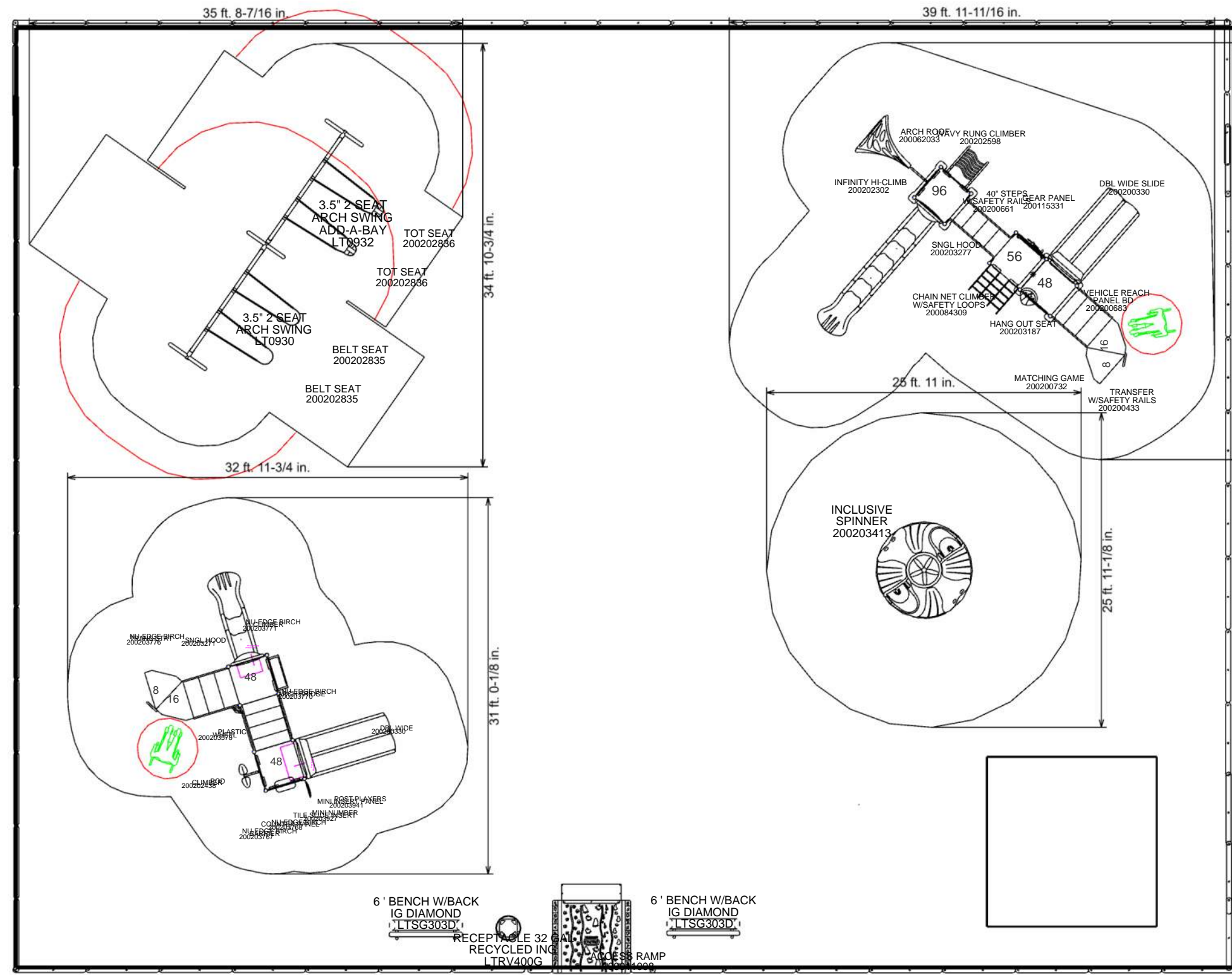
2-5YRS  5-12YRS  2-12YRS  13YRS

1. THE AMERICANS WITH DISABILITIES ACT (ADA) MAY REQUIRE THAT YOU MAKE YOUR PARK AND/OR PLAYGROUND ACCESSIBLE WHEN VIEWED IN ITS ENTIRETY. PLEASE CONSULT YOUR LEGAL COUNSEL TO DETERMINE IF THE ADA APPLIES TO YOU.
2. FOR PLAYGROUND EQUIPMENT TO BE CONSIDERED ACCESSIBLE ACCESSIBLE SURFACING MUST BE UTILIZED IN APPLICABLE AREAS.
3. ALTHOUGH A PARTICULAR PLAYGROUND DESIGN MY NOT MEET THE PROPOSED ACCESS BOARD REGULATIONS IN REGARDS TO THE APPROPRIATE NUMBER OF GROUND LEVEL EVENTS THE ACTUAL PLAYGROUND MAY BE IN COMPLIANCE WHEN CONSIDERING EXISTING PLAY COMPONENTS.
4. ALL DECK HEIGHTS ARE MEASURED FROM TOP OF GROUND COVER.
5. FALL ABSORBING GROUND COVER IS REQUIRED UNDER AND AROUND ALL PLAY EQUIPMENT.
6. THE MINIMUM RECOMMENDED FALL ZONE AROUND THE ENTIRE PLAYSTRUCTURE IS SHOWN. THIS ZONE IS TO BE FREE OF ALL TRIPPING OR COLLISION HAZARDS (I.E. ROOTS ROCKS BORDER MATERIAL ETC.).
7. ALL POST LENGTHS ARE IDENTIFIED BY TEXT SHOWING THE POST LENGTHS I.E. 96 REPRESENTS A 96 INCH POST.
8. NOT ALL EQUIPMENT MAY BE APPROPRIATE FOR ALL CHILDREN. SUPERVISION IS REQUIRED.

# EXHIBIT 4. PLAYGROUND DRAWINGS AND SPECIFICATIONS

AGE GROUP: 2-12\_ASTM  
 ELEVATED PLAY ACTIVITIES - TOTAL: 4  
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 4 REQD 0  
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 4 REQD 2  
 GROUND LEVEL ACTIVITY TYPE: 1 REQD 0  
 GROUND LEVEL QUANTITY: 3 REQD 0

AGE GROUP: 5-12\_ASTM  
 ELEVATED PLAY ACTIVITIES - TOTAL: 6  
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 6 REQD 0  
 ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 6 REQD 3  
 GROUND LEVEL ACTIVITY TYPE: 4 REQD 0  
 GROUND LEVEL QUANTITY: 8 REQD 0



**PROJECT:**  
[Enter Project Description Here](#)  
 HOLLAND, MI  
**LTCPS REP:**  
 Alliee Reeves  
 GREAT LAKES RECREATION COMPANY  
 Enter Phone No.

GROUND SPACE: 101' x 79'  
 PROTECTIVE AREA: 98' x 69'

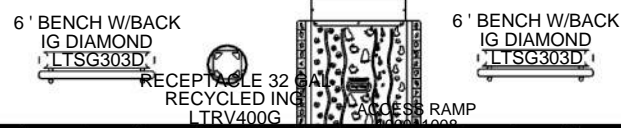
DRAWN BY: Alliee Reeves  
 DATE: 01/19/2026  
 PROJECT: 24007859

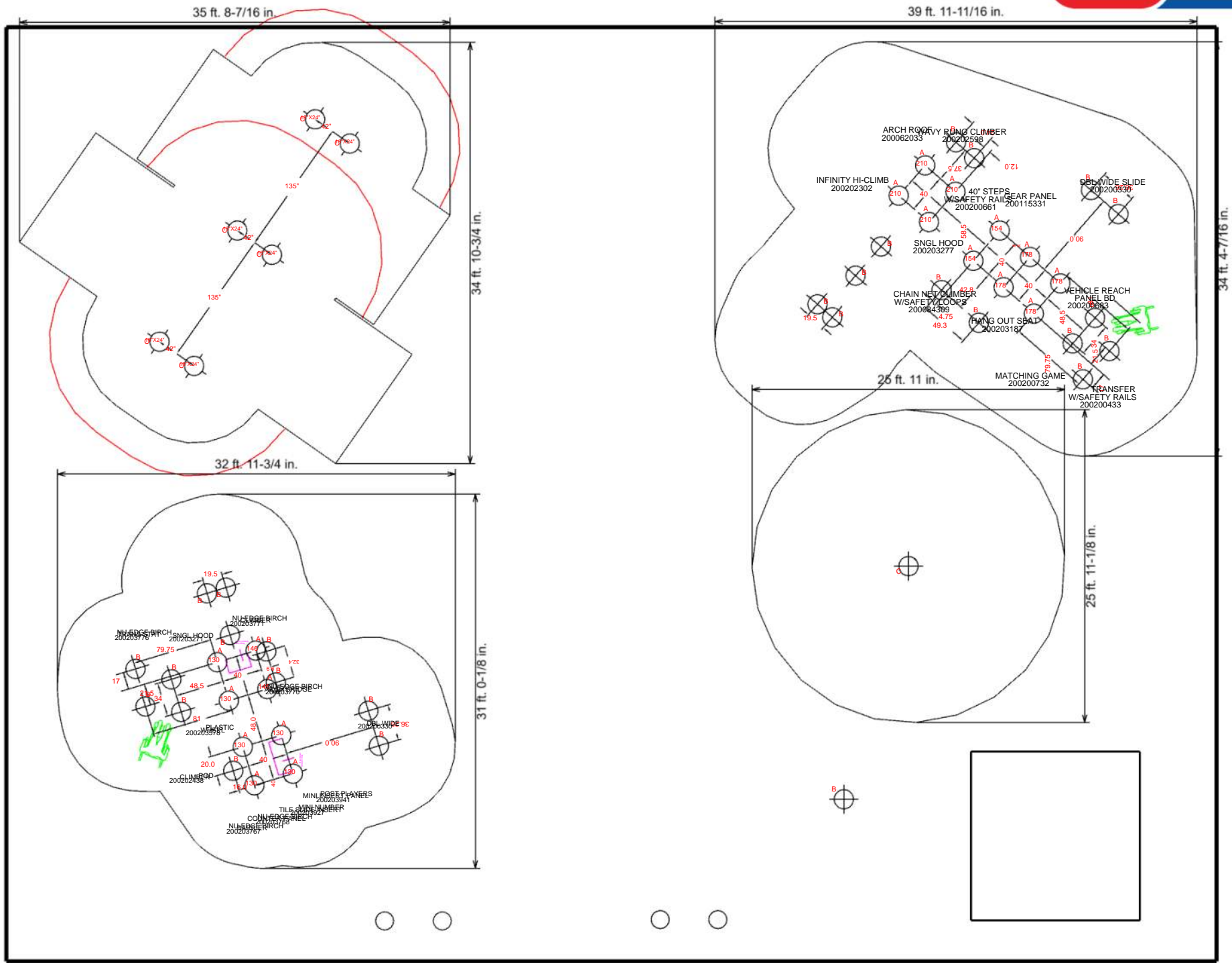
LTCPS - FARMINGTON  
 878 EAST HIGHWAY 60  
 MONETT MO 65708  
 VOICE: 1-800-325-8828  
 FAX: 417-354-2273

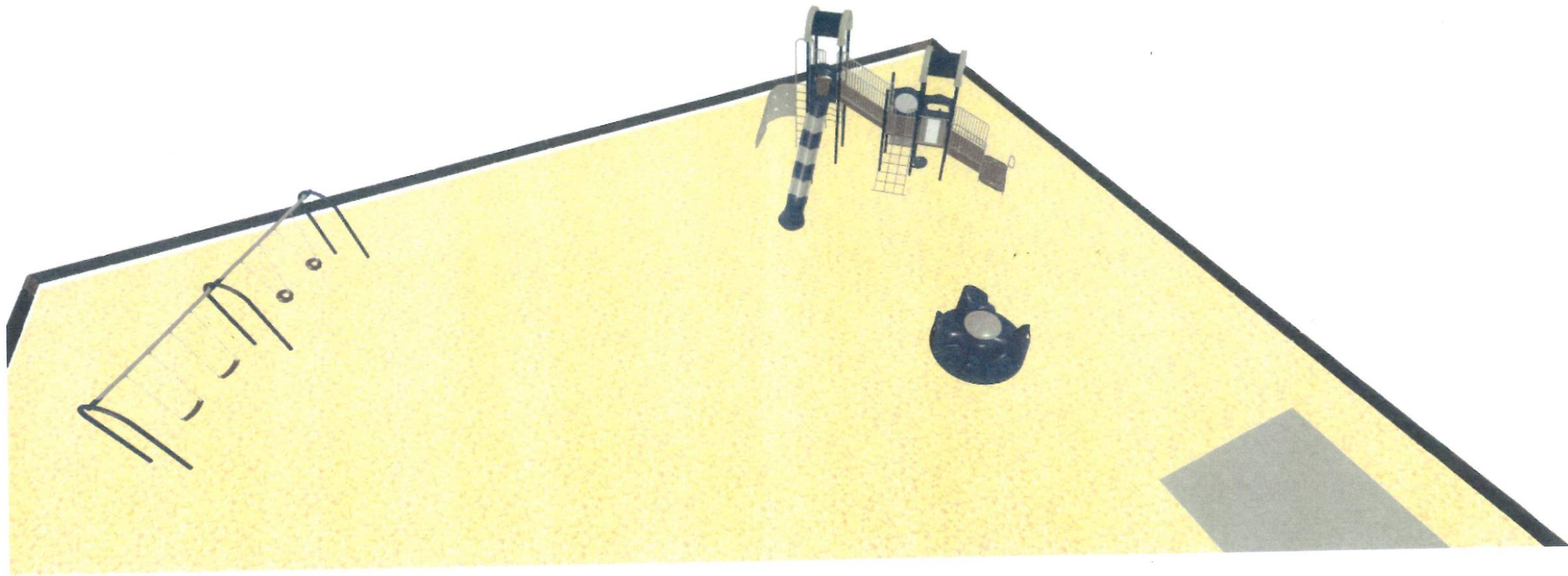
## PLAYGROUND LAYOUT COMPLIANCE:

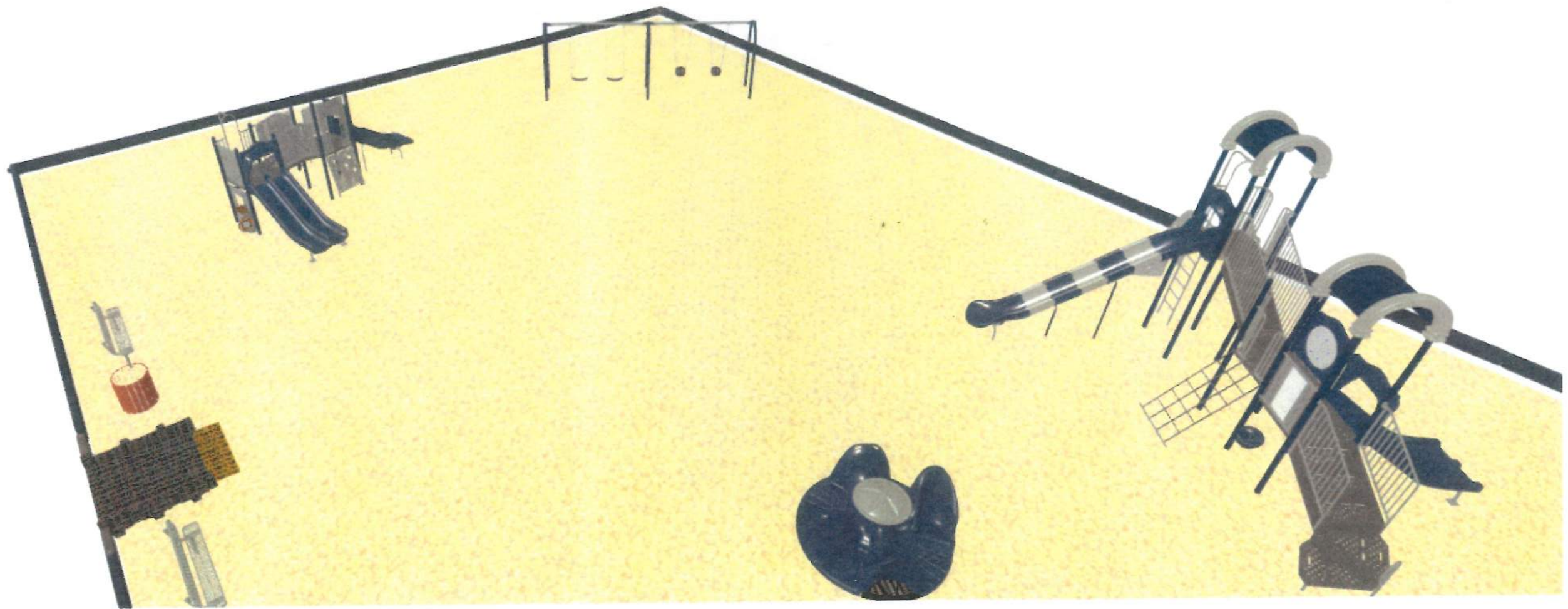
- ASTM F1487 - PLAYGROUND EQUIPMENT FOR PUBLIC USE
- CPSC HANDBOOK FOR PUBLIC PLAYGROUND SAFETY
- THIS PLAYGROUND DESIGN MEETS THE FINAL ACCESS BOARD REGULATION.

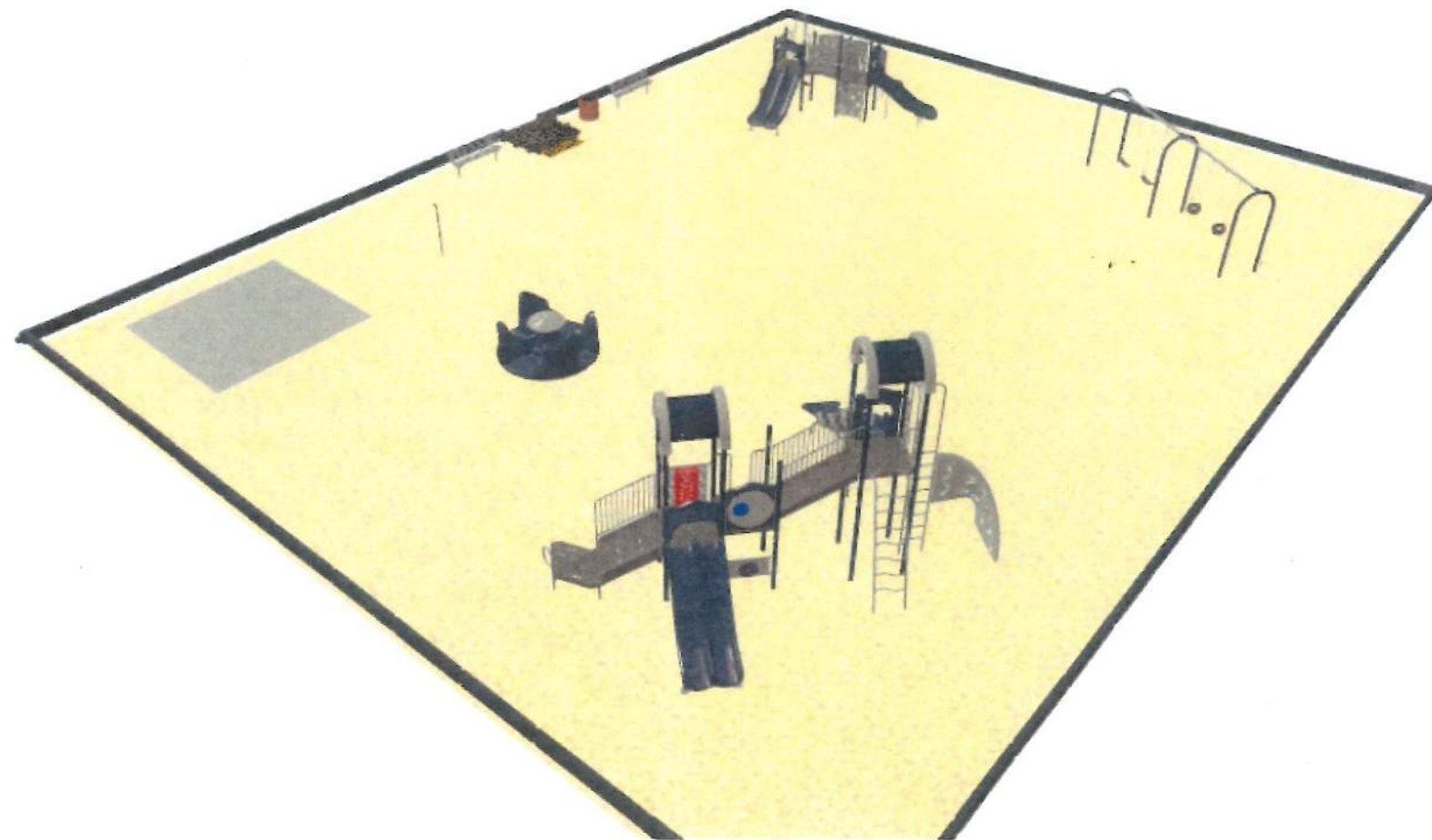
THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.

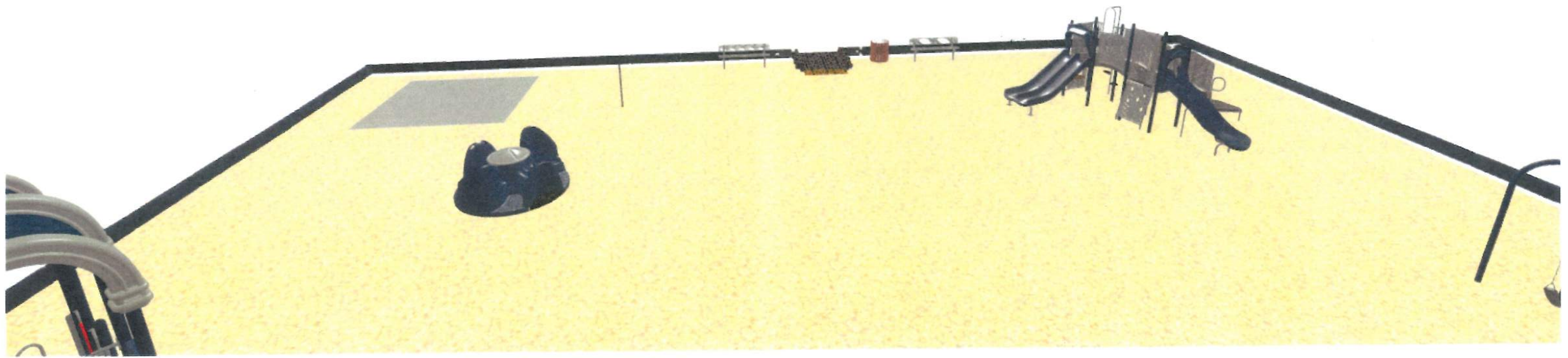




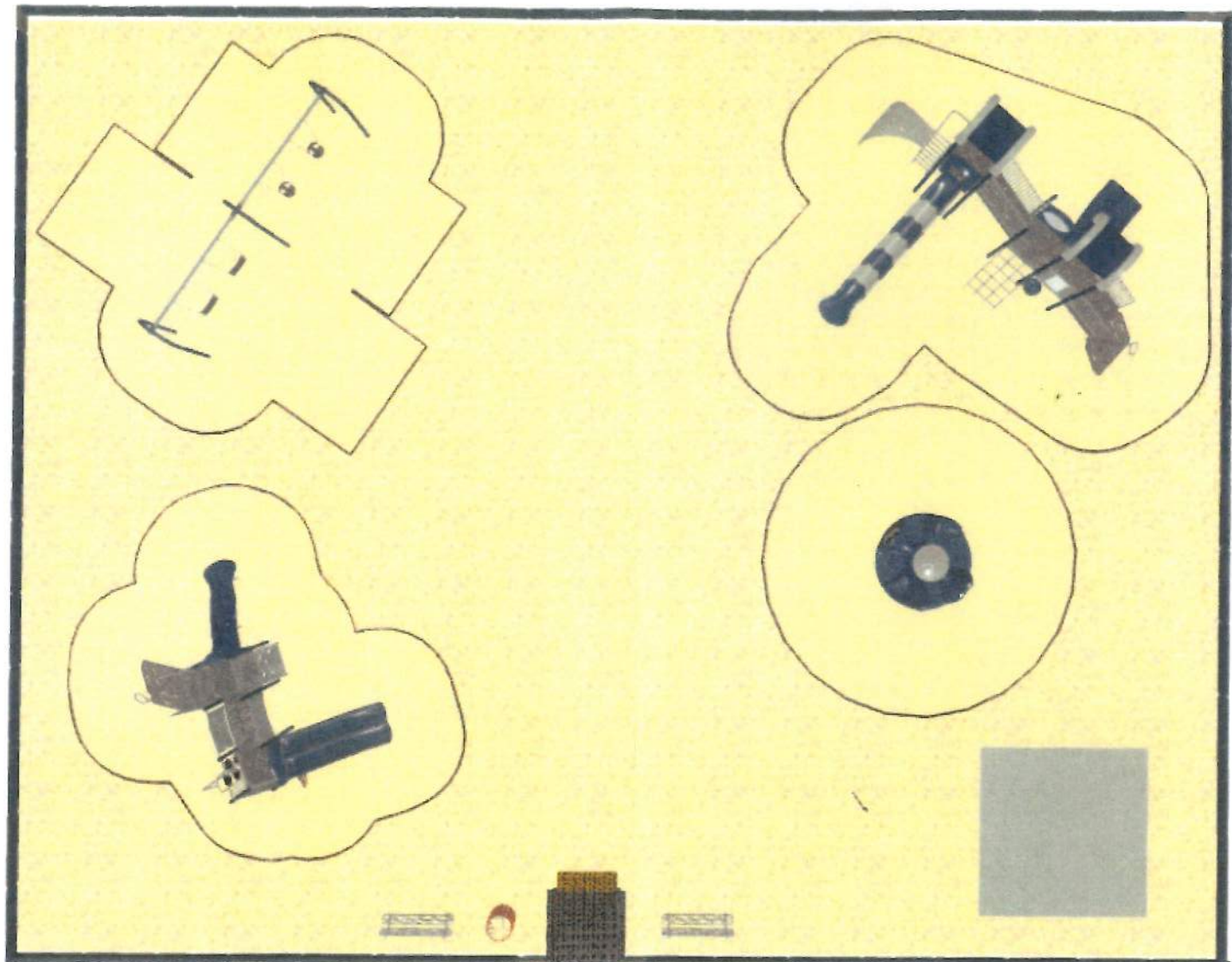












# EQUIPMENT QUALIFICATIONS

## ⇒ MANUFACTURER QUALIFICATIONS:

- The manufacturer of the playground equipment must carry a minimum of 10 million dollars of liability insurance with an AM best rating.
- The manufacturer of the playground equipment must have a minimum of 10 years experience in manufacturing commercial playground equipment.

## ⇒ QUALITY ASSURANCE:

- All playground equipment shall comply with all the requirements of CPSC, ASTM, ADA and will be IPEMA certified.
- All safety fall zones shall be determined in accordance with ASTM 1487-07 and CPSC Handbook for Public Playground Safety Publication number 325.  
All playground equipment designs shall be evaluated and signed off by a NPSI certified playground inspector.

## ⇒ APPLICABLE STANDARDS:

- ASTM F1487-07  
Standard consumer performance specification for playground equipment for public use
- CPSC Handbook for Public Playground Safety, publication number 325
- CSA Z614-20
- EN 1176-98 (if requested)  
European Standard for Playground Equipment
- All manufactured components must be IPEMA certified  
International Playground Equipment Manufacturers Association



# GENERAL EQUIPMENT SPECIFICATIONS



- ⇒ **PLASTIC CAPS** shall fit snugly into 89 mm (3.5") and 33 mm (1.315") tube ends and shall be injection molded Low Density Polyethylene. This plastic shall be stabilized against ultraviolet (UV) degradation and shall have color molded in. All caps will be installed at the factory and 89 mm (3.5") caps will be secured with aluminum hammer drive pins.
- ⇒ **ALUMINUM CAPS** shall fit snugly into 89 mm (3.5") tube ends. The aluminum cap shall be made from SAE 413 aluminum with a minimum wall thickness of 4 mm. Prior to insertion into the post, all caps shall be painted per PPLT PAINT Specification. All caps will be installed at the factory and 89 mm (3.5") caps will be secured with aluminum hammer drive pins.
- ⇒ **PAINT** : Primer shall be electrostatically applied and cured in an infrared oven. Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the combined primer/paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).
- ⇒ **ROTO PLASTIC** : Rotationally Molded Plastic parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.
- ⇒ **PVC VINYL** : Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.
- ⇒ **HARDWARE** : Bolts, Nuts, Screws, Threaded Spacers, Washers and other Hardware used in the assembly of components shall be metric stainless steel and tamper resistant. All necessary hardware shall be provided.
- ⇒ **DIRECT CONNECT**: Play Builders® structures feature the Direct Connect system that provides a unique dual-tempered fastener, adding strength and durability to the self-drilling tip and threads.



# GENERAL EQUIPMENT SPECIFICATIONS



⇒ **ALL STEEL COMPONENTS** shall comply with ASTM standards: A-500, or A-513. The steel tube components contain five layers including an inside galvanized coating, high tensile strength cold formed steel, hot dipped pure zinc meeting ASTM B-6 applied at 3.5 tenths of an ounce per square foot, and a proprietary conversion and advanced polymer coatings. The components are freed of excess weld spatter and shall be cleaned in a multiple bath system which shall include a rust-inhibitive iron phosphate wash prior to painting. Exceptions: 127 mm (5") O.D. aluminum posts.

⇒ **11 GAUGE GALVANIZED STEEL POST** shall be 89 mm (3.5") O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 380MPa (55,000 psi). Minimum yield point shall be 345MPa (50,000 psi). Plastic caps shall be positioned in the top of each post. Posts shall be painted per PPLT PAINT Specification .

## Posts - Three-Step Finishing

High-tensile, cold-formed steel is fortified by a three-step finishing process to ensure durability, corrosion resistance, and color fastness.

**STEP 1:** Zincrich™ internal coating on tubes, including weldments

**TUBING:** High-tensile, cold formed steel tubing

**STEP 2:** Flo-Coat™ pure zinc galvanizing on surface of tubes

**STEP 3:** Polyester dry powder coating for vibrant color

⇒ **BRACKETS** shall be fabricated from punched and formed 4.5 mm pre-galvanized sheet steel.

⇒ **GASKETS** shall be rubber injection molded from ultraviolet (U.V.) protected synthetic rubber. Rubber gaskets shall provide an aesthetic seal around the wonder fastener and bracket.



# Revolution Inclusive Spinner



OPTIONAL 3-POINT HARNESS (912358)

**Model:** 200203413

**Description:** Revolution Inclusive Spinner

**Age Group:** 2-12 Years

**Space Required:** 9'-0" × 9'-0"

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Traditional merry-go-rounds are a classic component of playgrounds and other recreational spaces. Imagine the possibilities when you adapt this conventional piece of playground equipment so children of all abilities and backgrounds can use it.

If you are looking for a playground merry-go-round for sale, consider the inclusive Little Tikes merry-go-round to bring children of all ages, sizes, and abilities together for productive, imaginative play.

Our Revolution Inclusive Spinner from our selection of motion play playground equipment promotes an engaging and accessible playground environment for all children. With this spinner, children of diverse backgrounds and physical abilities can enjoy playing together on a piece of equipment that accommodates all kids.

Children can ride in a way that's most comfortable for them. There are chairs for those who want to sit while spinning, and there's plenty of room for other kids who want to stand up. Children using wheelchairs also have space to ride on the spinner, and there is even room for a caregiver to assist children with special needs.

Our spinner ensures everyone can participate in meaningful play together.

Provide your playground with components from Little Tikes Commercial to build a safe, inclusive environment. You can contact us today to get started!

## Specifications:

REVOLUTION INCLUSIVE SPINNERS shall consist of an approx. 8' diameter rotational molded body that features many styles of seating and standing locations. The body and central hub shall be rotationally molded per PPLT ROTO Specification. Body shall be pre-assembled with upper and lower ball bearings mounted into laminated sheet, HDPE 3/4" thick, with bottom cover constructed of 11 ga. sheet. Post assembly shall comprise a top friction plate, half bottom friction plate, post weldment, spring, half bottom cover plate and connector stub. Top friction plate, half bottom friction plate and half bottom cover plate shall be constructed of laminated sheet, HDPE, 3/4" thick. Post weldment shall comprise a post bottom, post shaft, bottom post plate and post friction plate. Post bottom shall be constructed of 5" tube, 11 ga., post shaft will be constructed of round, 2-3/4" tube, and bottom post plate and post friction plate shall be constructed of 3/8" black sheet steel. All steel components shall be painted per PPLT PAINT Specification.



# Mini Insert Play Panels



Mini Number  
Tile Slide  
200203927

Mini Gliding  
Gears  
200203924

Mini Color  
Wheel Kalei  
200203929

Mini Roto  
Maze  
200203928

Mini Make  
It Rain  
200203925

Mini Sensory  
Fidget  
200203926

**Model:** Varies - Available in Double Insert, Single Insert, Single Insert Reach, and Post Mount

**Description:** Mini Insert Play Panel (*Does Not Include Post*)

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

## Description & Features:

There's fun to be had in every corner of the playground! From a vibrant color wheel to a spinning maze, our mini inserts are an easy way to add inclusive play value to your design. These inserts may be displayed in a variety of ways across our standard and reach panels.

## Specifications:

KB ACTIVITY PANEL FRAME shall be fabricated from routed 19 mm (3/4) high density polyethylene. Deck plates shall be pre-galvanized 3.0 mm (.12) 11 gauge sheet steel. Hardware used shall be stainless steel and tamper resistant. All steel shall be painted per PPLT PAINT Specification.

ACTIVITY PANEL MINI INSERTS shall be fabricated from a combination of routed high density polyethylene, 3mm (0.12") clear polycarbonate. Various activities may include various sizes of balls and 2mm (0.08") aluminum sheet. Hardware used shall be stainless steel and tamper resistant.



# NU-Edge Birch Barrier



**Model:** Varies

**Description:** NU-Edge Birch Barrier

**Age Group:** 2 -12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Perfect for a game of hide-and-seek, this barrier's perforated steel construction gives kids the excitement of "hiding" behind birch branches while reassuring caregivers of safety through providing clear sightlines. Sheet plastic leaves complete the thematic look, making this panel double as the perfect background to any adventure kids have in store.

The NU-Edge® play system is designed around the striking dichotomy of both nature and city life. With towering rooftops, nature-inspired play events, and non-linear climbing paths, this bold fusion allows kids to jump into a world of discovery, imagination, and adventure—no matter where they live.

## Specifications:

NU-EDGE BIRCH BARRIER shall be fabricated from pre-galvanized, punched 3 mm (11 gauge) sheet steel welded to pre-galvanized 33 mm (1.315") O.D. steel tubing. All welded barrier assemblies shall be painted per PPLT PAINT Specification. The bolt on leaf accents shall be constructed from 3/4" (19mm) thick high-density polyethylene.



# NU-Edge Birch Arch Bridge



**Model:** Varies

**Description:** NU-Edge Birch Arch Bridge

**Age Group:** 2-12 Years

**Space Required:** Varies

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Wall color only available as shown

This bridge inspires a multitude of play scenarios with its perforated steel construction featuring birch branches and sheet plastic leaves. Available in 4' or 8' lengths and designed with a slight arch, kids can use this bridge as a gateway to a wooded adventure or as a "hiding" spot in an imaginative game of hide-and-seek.

The NU-Edge® play system is designed around the striking dichotomy of both nature and city life. With towering rooftops, nature-inspired play events, and non-linear climbing paths, this bold fusion allows kids to jump into a world of discovery, imagination, and adventure—no matter where they live.

## Specifications:

NU-EDGE BIRCH ARCH BRIDGE shall be a minimum of 915 mm (36") wide. Arch Bridge shall be fabricated from precision punched 13-gauge steel with 76 mm (3") formed sides. Bridge assemblies shall be vinyl dipped per PPLT PVC Specification. Arch bridge barrier shall be fabricated from pre-galvanized, punched 3 mm (11 gauge) sheet steel welded to pre-galvanized 33 mm (1.315") O.D. steel tubing and 42.2 mm (1.66") O.D. steel tubing. All welded barrier assemblies shall be painted per PPLT PAINT Specification. The bolt on leaf accents shall be constructed from 3/4" (19mm) thick high-density polyethylene.



# NU-Edge Birch Climber



**Model:** Varies

**Description:** NU-Edge Birch Climber

**Age Group:** 2 -12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Kids will feel like they're entering their very own treehouse with this nature-inspired climber. Featuring foot and handholds in the form of leaves as well as perforated steel construction in the design of branches, this climber combines urban safety and durability with natural play. Available in heights of 48", 64", 72", and 96".

NU-Edge® merges modern design with natural aesthetic, eliminating the need to choose between the two themes and instead encouraging exploration of their middle ground. Using our exclusive Naturtek™ material across the product line, our designers achieve the realistic look of nature with improved durability and safety for longer-lasting play.

## Specifications:

NU-EDGE BIRCH CLIMBER shall be fabricated from pre-galvanized 42.2 mm (1.625") diameter steel tubing welded with 11 gauge pre-galvanized steel brackets and punched 3 mm (11 gauge) sheet steel. The hand grips shall be fabricated from ½" (13mm) thick high-density polyethylene. The enclosure shall be fabricated from pre-galvanized, punched 3 mm (11 gauge) sheet steel welded to pre-galvanized 33 mm (1.315") O.D. steel tubing, 25.4mm (1") O.D. steel tubing, and 3 mm (11 gauge) sheet steel. The bolt on leaf accents shall be constructed from ¾" (19mm) thick high-density polyethylene. All weldments shall be painted per PPLT PAINT Specification.



# NU-Edge Birch Counter



**Model:** Varies

**Description:** NU-Edge Birch Counter

**Age Group:** 2 -12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Kids can set up shop selling flowers to fairies, fungus cream to Big Foot, or home-grown vegetables to a local restaurant. Birch Counter Panel is made of perforated steel in the design of branches and detailed with sheet plastic leaves to help kids establish their play scenario. The counter extends from both sides of the window, making it a versatile within your playground's design.

NU-Edge® merges modern design with natural aesthetic, eliminating the need to choose between the two themes and instead encouraging exploration of their middle ground. Using our exclusive Naturtek™ material across the product line, our designers achieve the realistic look of nature with improved durability and safety for longer-lasting play.

NU-EDGE BIRCH COUNTER PANEL shall be fabricated from pre-galvanized, punched 3 mm (11 gauge) sheet steel welded to pre-galvanized 33 mm (1.315") O.D. steel tubing, and 4.6 mm (7 gauge) sheet steel. Counter panel and leaf accents shall be constructed from 3/4" (19mm) thick high-density polyethylene. All weldments shall be painted per PPLT PAINT Specification.



# NU-Edge Birch Transfer Station



**Model:** Varies

**Description:** NU-Edge Birch Transfer Station

**Age Group:** 2 -12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

A playground necessity, Birch Transfer Station introduces kids to the imaginative landscape that awaits. Steps with perforated steel barriers on either side establish a natural theme for kids' narratives through birch branch designs and sheet plastic leaves.

The NU-Edge® play system is designed around the striking dichotomy of both nature and city life. With towering rooftops, nature-inspired play events, and non-linear climbing paths, this bold fusion allows kids to jump into a world of discovery, imagination, and adventure—no matter where they live.

## Specifications:

NU-EDGE BIRCH TRANSFER STATION shall consist of two triangular decks and step assemblies for the handrails. Each triangular deck shall be fabricated from 13-gauge sheet steel, covering .37 square meters (575 square inches) and have three 25 x 152 mm (1" x 6") hand slots incorporated into the deck surface for aid in user transition. The step assemblies provide access from the transfer decks to a 915 mm (36"), 1016 mm (40"), 1220 mm (48"), 1422 mm (56"), 1625 mm (64") deck height. Each step shall have a tread depth of 406 mm (16") and a tread width of 953 mm (37.5"), with each rise 203 mm (8") or less. Each step assembly shall have an all-welded construction from 13-gauge sheet steel. Each step assembly and Transfer Deck shall be coated per PPLT PVC Specification. Transfer station barrier shall be fabricated from pre-galvanized, punched 3 mm (11 gauge) sheet steel welded to pre-galvanized 33 mm (1.315") O.D. steel tubing. All welded barrier assemblies shall be painted per PPLT PAINT Specification. The bolt on leaf accents shall be constructed from 3/4" (19mm) thick high-density polyethylene.



# Arch Roof



**Model:** 200062033

**Description:** Arch Roof

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

The simple charm of Arch Roof adds an element of whimsy to your playground's design! The arch features steel mesh construction for long-lasting use, while the rotomolded plastic ends give it a classic look. Arch Roof is available in a variety of colors to match your playground's aesthetic.

## Specifications:

ARCH ROOF AND DOUBLE ARCH ROOF shall consist of two parts. The arches shall be rotationally molded per PPLT ROTO Specification. The roof section shall be fabricated from 16 gauge galvanized sheet steel with 6 x 76 mm (.25" x 3")



# Play Builder Chain Net Climber



**Model:** Varies due to Different Deck Heights

**Description:** PB Chain Net Climber

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Featuring metal rungs linked by chains in a grid formation, Chain Net Climber gives kids the chance to climb with friends in a myriad of adventures.

Chain Net Climber is compatible with Kid Builders® and Play Builders® to help build upon a child's imaginative play.

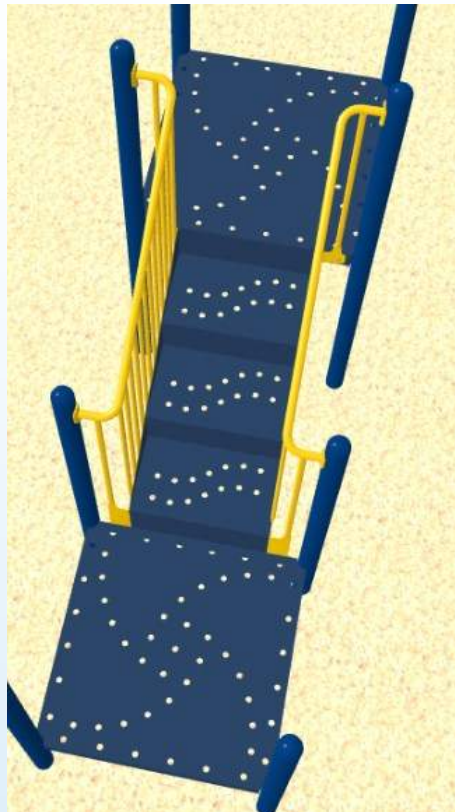
The right climbing structures encourage children to reach higher, climb farther, and discover the magic outside. Climbing on our outdoor playground climbers allows children to embrace fun and exploration, while remaining safe.

## Specifications:

CHAIN NET CLIMBER shall be constructed from 25.4 mm (1) HR tubing and 4/0 steel chain. Chain assembly shall be coated per PPLT PVC Specification. Available with hand hold loops or safety loops. Safety Loops shall be fabricated from 33 mm (1.315) O.D. and 3/4 X 1 FSO pre-galvanized steel tubing. Hand Hold Loops shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing. After fabrication all parts except for the chain assembly shall be painted per PPLT PAINT Specification.



# Play Builder Deck-To-Deck Steps



**Model:** Varies due to Deck Heights & Stair Lengths

**Description:** PB Deck-To-Deck Steps

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

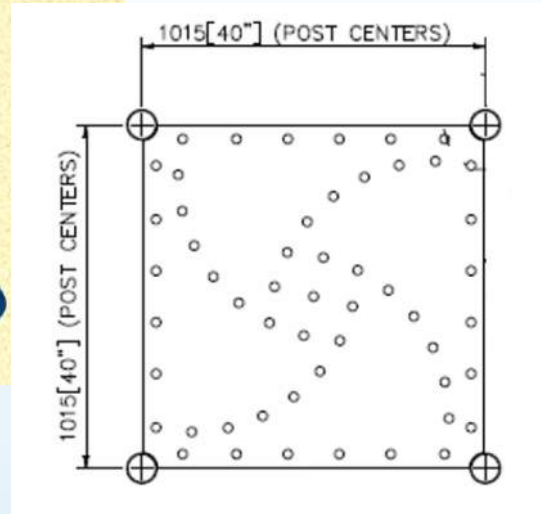
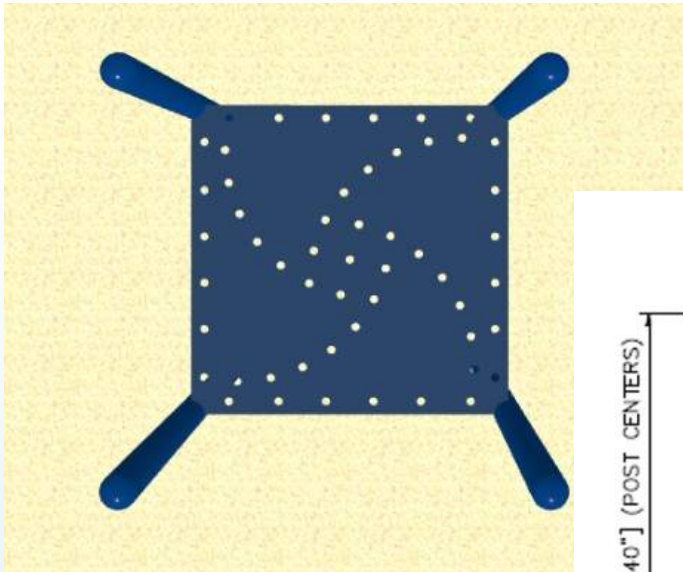
Explore each deck with ease using these simple steps. Vinyl clad steel and perforated design ensure long-lasting durability throughout years of discoveries.

## Specifications:

PB DECK TO DECK STEPS WITH SAFETY RAIL shall consist of welded tread, riser and stringer sections fabricated from 13 gauge hot rolled steel. This assembly shall be coated per PPLT PVC Specification. Handrails shall be fabricated from 33 mm (1.315") O.D. pre-galvanized tubing for the top rail, 15 gauge 3/4 X 1 obround pre-galvanized steel for vertical rungs, and 13 gauge pre-galvanized sheet steel for the bottom plate. Safety rails shall provide an enclosure and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Safety Rails shall be painted per PPLT PAINT Specification.



# Play Builders Square Deck



**Model:** 100005274

**Description:** PB Deck Square

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Playground decks and ramps are the basic building blocks of creative play areas. They serve as platforms, walkways, and bridges, ensuring children have a safe and reliable way to traverse from one playground component to the next. At Little Tikes Commercial, we know that needs differ. That's why we design commercial decks and ramps for every situation and site, ensuring these elements form your perfect playground platform and keep kids safe while they play.

Whether they're serving as a unique, functional walkway or adding a bit of fun to your play structure, learn how decks and ramps from Little Tikes Commercial can benefit your school or community playground.

## Specifications:

SQUARE VINYL CLAD METAL DECK shall cover a minimum of 1.03 square meters (1,596 square inches) of top surface area. Metal decks shall be fabricated from punched and formed 11 gauge hot rolled sheet steel. This assembly shall be coated per PPLT PVC Specification.



## Play Builders Double Wide Slide



**Model:** Varies due to different deck heights

**Description:** PB Double Wide Slide

**Age Group:** 2-12 Years

**Space Required:** Varies

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

### Description & Features:

Adding a double slide is an easy way to set your playground apart from the rest. It offers more of an opportunity for kids to engage in social activity than single slides do, allowing young ones to develop stronger social skills.

The double wide slide can add more dynamic social and competitive fun to your playground by enabling children to slide down side-by-side simultaneously. It is a simple and effective way to encourage social interaction and double the fun as kids experience the same joys together.

### Specifications:

DOUBLE WIDE SLIDES shall be rotationally molded per PPLT ROTO Specification. Plastic double wide slide sides shall be 203 mm (8) high from the slide surface and slide bedway shall be designed with a 406 mm (16") minimum width. Double wide slide shall be a one-piece design with a center divider having no seams, joints or gaps. Slide end support shall be fabricated from 38 mm (1.5) square tubing. Mid support shall be fabricated from 60.3 mm (2.37) tubing. All steel tubing shall be painted per PPLT PAINT Specification.



# Play Builders Gear Panel



**Model:** Varies due to Deck or Post Mounting

**Description:** PB Gear Panel

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Using the easy-to-turn crank handle, kids of all ages and ability levels can spin the gears of this panel—and the gears in their head! Not only does this panel teach about cause and effect, but its brightly colored gears offer an exciting visual for kids to experience. It is available as a full-length panel with either rotomolded, compounded resin surrounding it, or a thematic engine graphic. A Reach style is also available.

## Specifications:

GEAR PANEL shall be rotationally molded per PPLT ROTO Specification. Two Polycarbonate material (Lexan) sheets contain a set of gears and a crank that shall be rotationally molded per PPLT ROTO Specification. Gears shall be fabricated from high density polyethylene sheet.



# Play Builders Hang Out



**Model:** 200203187

**Description:** PB Hang Out

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

A place to rest or just somewhere to chat, our Hang Out Seat provides kids with a place to "hang out"!

## Specifications:

PB Hangout Frame shall be constructed from 60.3mm [2 3/8] O.D. pre-galvanized tubing welded to 4.5mm [7ga.] galvanized sheet steel. All steel components shall be painted per PPLT PAINT Specification. Seats shall be rotationally molded per PPLT ROTO Specification.



# Play Builder Infinity Hi-Climb



**Model:** Varies due to Different Deck Heights

**Description:** PB Infinity Hi-Climb

**Age Group:** 5-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Reach new deck heights with the Infinity High Climb .

The right climbing structures encourage children to reach higher, climb farther, and discover the magic outside. Climbing on our outdoor playground climbers allows children to embrace fun and exploration, while remaining safe.

## Specifications:

PB INFINITY HI-CLIMB LADDER shall be fabricated out of 42.2 mm (1.66) O.D. pre-galvanized steel tubing and 33 mm (1.315) O.D. pre-galvanized steel tubing. Enclosure shall be fabricated from 33 mm (1.315) O.D. and 3/4 X 1 FSO pre-galvanized steel tubing. After fabrication all parts shall be painted per PPLT PAINT Specification. INFINITY CLIMBER shall be rotationally molded per PPLT ROTO Specification.



# Play Builders Single Quantum II Slide



**Model:** Varies due to different deck heights

**Description:** PB Quantum II Slide

**Age Group:** 2-12 Years

**Space Required:** Varies

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Accent your playground with this fully customizable slide! Sectioned design allows you to choose your colors—whether you'd like to show your school pride, your community's support, or build upon a myriad of magical themes, this slide is the perfect way to welcome kids of all ages into the playground.

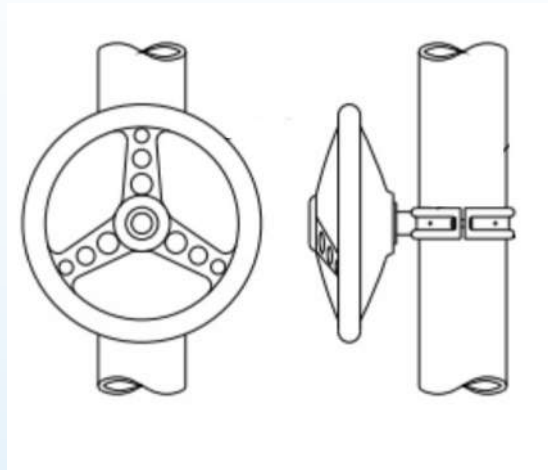
The favorite of the playground, no play space is complete without a slide! There's no greater feeling than rewarding a trek to the top with a smooth glide back down. Not to mention that sliding can also boost confidence, improve sensory development, teach social skills, and encourage an overall active lifestyle.

## Specifications:

QUANTUM II SLIDE SECTIONS shall be rotationally molded per PPLT ROTO Specification and bolt together to form a single bed way slide. Slide end support shall be fabricated from 38 mm (1.5) square tubing and 4.5mm (7 gauge) pre-galvanized sheet steel. Mid support shall be fabricated from 42 mm (1.66) O.D. tubing. All steel components shall be painted per PPLT PAINT Specification.



# Play Builders Steering Wheel (Plastic)



**Model:** 200203578

**Description:** PB Plastic Steering Wheel (Post Mount)

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Add an element of excitement to your recreational area with a steering wheel from Little Tikes Commercial.

From pretending to be either a race car driver or even a school bus driver, our steering wheel will provide hours of imaginary fun for kids of all ages.

## Specifications:

PLASTIC STEERING WHEEL shall be rotationally molded per PPLT ROTO Specification. Steering Wheels shall mount to a machined stub welded to a 4.5mm thick (7ga.) steel plate. Weldment shall be painted per PPLT PAINT Specification.



# Play Builders Transfer Station with Safety Rails & Loop



**Model:** Varies due to Deck Heights & Stair Lengths

**Description:** PB Transfer Station

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Two fully inclusive access systems allow for multi-directional traffic.  
Also available without steps (transition triangular decks with hand loop).

## Specifications:

TRANSFER STATION WITH SAFETY RAIL shall consist of two triangular decks and step assemblies for the handrails. Each triangular deck shall be fabricated from 11 gauge sheet steel, covering .37 square meters (575 square inches) and have three 25 x 152 mm (1" x 6") hand slots incorporated into the deck surface for aid in user transition. The step assemblies provide access from the transfer decks to a 915 mm (36"), 1016 mm (40), 1220 mm (48), 1422 mm (56), 1625 mm (64) deck height. Each step shall have a tread depth of 406 mm (16") and a tread width of 953 mm (37.5"), with each rise 203 mm (8") or less. Each step assembly shall have an all welded construction from 13 gauge sheet steel. Each step assembly and Transfer Deck shall be coated per PPLT PVC Specification. Transfer Station handrails shall be fabricated from 33 mm (1.315") O.D. pre-galvanized, 14 gauge tubing and 3/4 X 1 FSO pre-galvanized tubing. Safety rails shall provide an enclosure and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Transfer Station loops shall be fabricated from 42.2 mm (1.66") O.D., pre-galvanized, 10 gauge tubing. All welded handrail assemblies shall be painted per PPLT PAINT Specification.



# Play Builders Vehicle Reach Panel



**Model:** 200200683

**Description:** PB Vehicle Reach Panel

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

Test drive some fun with our Vehicle Reach Panel that imitates a vehicles steering wheel and dashboard.

Activity panels are an excellent source of sensory play and social engagement for kids of all ages. With a range of activities targeting skills from physical and creative to cognitive and social, each panel provides a fun way for children to learn together. Our activity panels are geared toward a variety of kids, offering fun entertainment and learning opportunities for everyone from toddlers to older children.

## Specifications:

REACH VEHICLE PANEL shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing and a laser cut plate fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Steering wheels shall be cast in alloy 319 aluminum of the Aluminum-Zinc-Magnesium type and comply to ASTM SC64d, UNS-AO3191, QQA-371e, and QQA-596d standards. Steering wheel shall mount to a 33 mm (1.315") O.D. pre-galvanized tube. Panels/wheels shall be painted per PPLT PAINT Specification.



# Play Builder Wavy Rung Climber



**Model:** Varies due to Different Deck Heights

**Description:** PB Wavy Rung Climber

**Age Group:** 2-12 Years

**Certification:** ASTM, CPSC

**Warranty:** See Little Tikes Commercial's limited warranty for this item's terms and additional warranty information.

**Available Colors:** Choose from current color chart.

## Description & Features:

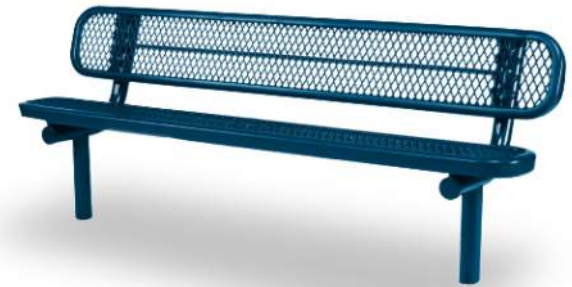
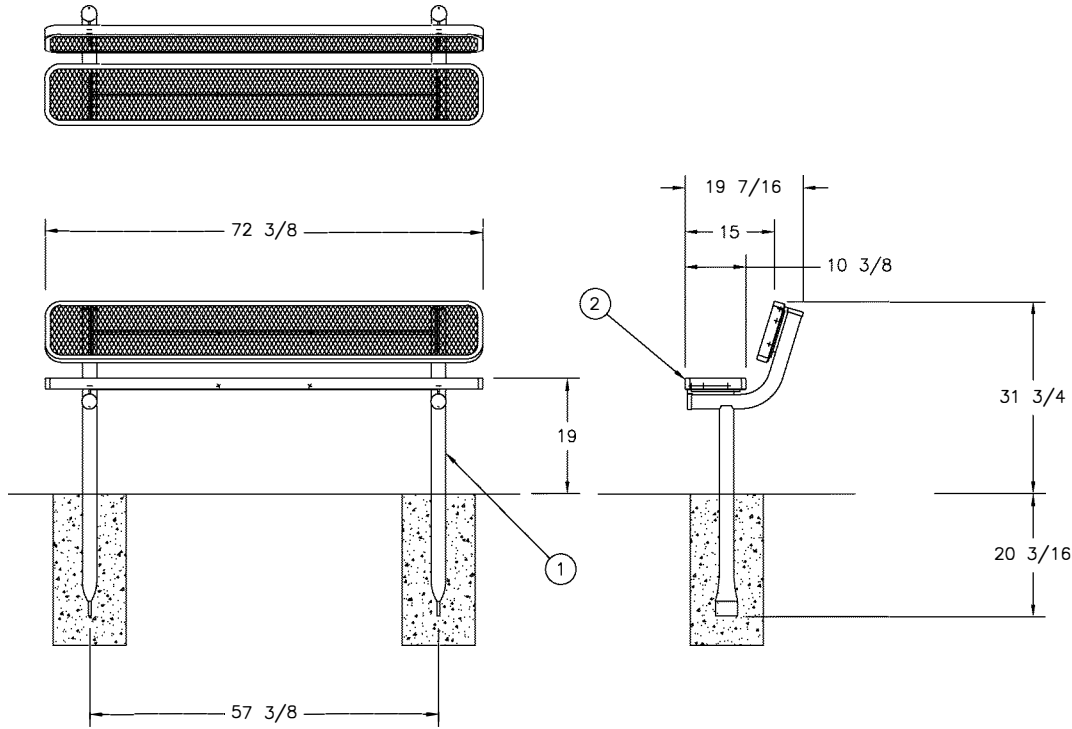
Wavy rungs put a new spin on the classic ladder, inviting kids to challenge not only their physical abilities such as strength and hand-eye coordination, but also their imagination as to what may be possible.

The right climbing structures encourage children to reach higher, climb farther, and discover the magic outside. Climbing on our outdoor playground climbers allows children to embrace fun and exploration, while remaining safe.

## Specifications:

PB WILD AND WAVY RUNG CLIMBERS shall be fabricated from 48.3 mm (1.90) O.D. and 33.4 mm (1.315) pre-galvanized steel tubing. The climber shall be an all welded construction. Enclosures shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.





**PRODUCT DESCRIPTION**

Welcome guests to your restaurant, theme park attraction, recreational facility or other outdoor location with the Inground Signature Diamond Bench. Crafted from steel with our exclusive Plastisol coating, it's built to last. Elevate any outdoor setting with its diamond pattern design.

**FEATURES**

- Designed to withstand varying weather conditions, making it perfect for outdoor use year round
- Our powder coat finish provides superior resistance to moisture, weathering, and UV radiation
- Plastisol Coating designed for durability and resistance to prevent chipping, fraying, and corrosion
- No need for weatherizing
- Our specialized coatings fight against water absorption, dirt, graffiti, and other unwanted stains
- 5 year warranty
- Assembly required
- Pairs well with the Signature Diamond Picnic Table and Signature Diamond Trash Receptacle

Size: 6':  
 Length: 72 in., Width: 20 in., Height: 32 in. Weight: 113 lbs.

Size: 8':  
 Length: 96 in., Width: 20 in., Height: 32 in. Weight: 132 lbs.

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M-1994.
2. ALL DIMENSIONS AFTER TO PLASTISOL COATING.
3. DO NOT SCALE DRAWING.

2	2	SEAT	7529R
1	2	LEG	7345



Follow the QR Code below to view our Installation Video.



### Before You Begin:

- **Consult your local building department for any required permits**  
You may be required to obtain a building permit for this structure. Contact your local building department for details.
- **Read instructions thoroughly**  
Please read all instructions and notes carefully prior to assembly. Americana is not responsible for replacing parts lost or damaged due to incorrect assembly.
- **Check for all parts**  
Use the Parts and Hardware List to check for any missing parts. To prevent scratching of painted materials, place on a tarp or other protective material.
- **Prepare surrounding area**  
Remove any obstructions around shelter location. Shelter installation should be scheduled after all concrete and masonry work in the surrounding area is completed.
- **Assistance is required during entire assembly.**



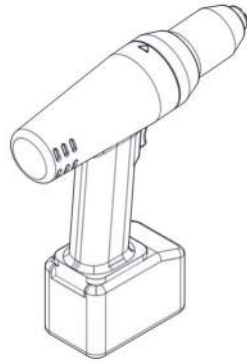
### CAUTION

- Proper site preparation is required.
- Standard shade structure design does not include additional loads such as hanging heavy plants, swings, or other objects.
- DO NOT stand or sit on the shade structure roof.
- Repair or replace broken parts immediately.
- This kit contains parts with metal edges. Please be careful when handling.

## Tools Needed for Installation



Safety Glasses



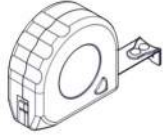
Electric Drill



Socket / Hex Head Driver  
Sizes: 1/4", 5/16", 3/4",  
1", 1-1/16"



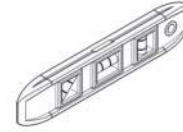
Screw Driver  
Flat & Phillips



Tape Measure



Socket / Ratchet Wrench  
Sizes: 1/4", 5/16", 3/4",  
1", 1-1/16"



Carpenters Level



Ladder

Other Required Tools: Gloves, Chalk Line, Silicone Caulking

Recommended Tools: Rubber Mallet, Carpenters Square, Pliers, Metal Hack Saw

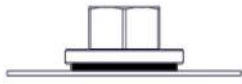
NOTE: Heavier equipment such as a forklift, boom lift, or lift table may also be required.

## Installation Notes and Tips

- Complete site preparation before beginning assembly.
- It is **VERY IMPORTANT** that the current footing layout is obtained from the manufacturer before pouring any footings or setting any anchor bolts.
- Anchor bolts are **NOT** included and must be furnished at the time of installation. Consult local building codes and the provided manufacturer's drawing for required anchor specifications.
  - We recommend using high quality stainless steel anchor bolts in areas with a corrosive climate.
- If the shelter is set on a concrete slab, the slab must be level so that all posts will be at the same elevation when mounted and anchored down.
  - If the shelter is set on an unlevel surface, it will bolt together if assembled with all bolts loose. When the bolts are tightened, some of the steel joints may have gaps and the unit may not be exactly plumb. However, the strength of the structure will not be affected.
- In areas with frequent rain, the slab or footing elevation should be at least 1" above the elevation of the surrounding landscape to prevent water from ponding around the base plate and anchor bolts.
- **DO NOT** attempt to assemble on a day with strong winds.
- Have assistance nearby to lift and secure parts in place.
- As is common in the erection of all types of metal structures, due to job site conditions (uneven slabs, footings, etc.), slight modifications such as reaming of some holes or drilling new holes may become necessary and must be done on the job site.
- Predrilling holes and removing metal shavings and debris from between components before fastening together will help prevent rusting or staining of the surrounding surfaces.
- Cutting and drilling metal components will cause shavings which must be carefully removed by sweeping or brushing. If this is not done, the metal shavings will rust and stain the surface finish.
- It is recommended to lower the speed of electric drills during this installation. Installing Tek screws at a high RPM may cause the Tek screws to become damaged or break during installation.

## Installation Notes and Tips (continued)

- Avoid over-driving, under-driving, or driving at an angle to properly install fasteners. Over-driven fasteners can depress the material and allow water to collect around the fastener, which will corrode the surface finish. Under-driven fasteners can cause leaks and may back out over time.



✓ CORRECT



✗ TOO LOOSE



✗ TOO TIGHT

- The center-to-center spacing of the roof panel locks must be maintained as the panels are installed. If this is not done, problems may not show up until towards the end of the installation when parts may appear to be cut too short or too long. If this happens, check each roof panel spacing and re-set if necessary.
- We strongly recommend using a high grade sealant, such as our 100% silicone caulk and sealant. Caulking should be applied uniformly and without skips. A poor caulking job can cause leaks.

## Care and Maintenance

Every 12 months your shade structure should be inspected and maintained by:

- Tightening loose nuts and bolts at all connections.
- Repairing damage to the finish to prevent corrosion.
- Replacing lost or damaged fasteners, brackets, and other parts.
- Replacing brittle or cracked sealer to prevent leaks.
- Removing obstructions and miscellaneous build-up from gutters, eaves, and downspouts.

**Note:** *These are basic installation guidelines for our standard load units and may not be suitable to your specific installation. It is important to follow all local and national building codes when installing any exterior improvement product. If you have questions regarding the proper installation of any Americana product, please call us toll free at 1-888-442-2928 and ask for assistance. Hours are 8:00am - 5:00pm Central Standard Time, Monday - Friday.*

*Refer to the provided manufacturer's drawing for details and special notes.*

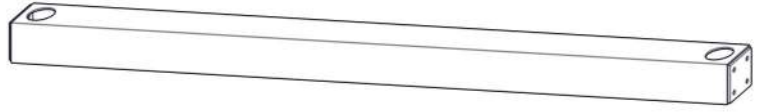
*Americana will not be responsible for delays or lost installation time due to failure to follow all instructions.*

NOTE: Length and quantity of parts will vary based on the size of the shelter.

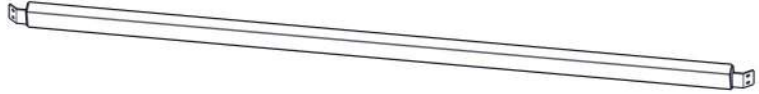
## Parts List



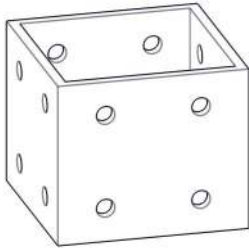
**A** Steel Post



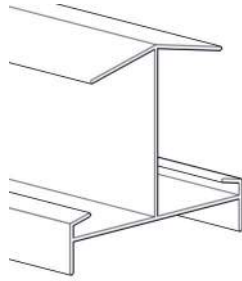
**B** Steel Rafter



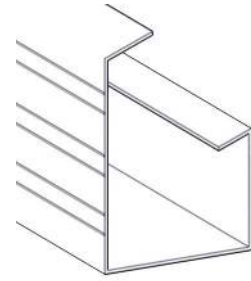
**C** Steel Purlin



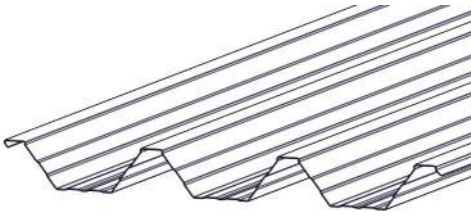
**D** Steel Tie Block



**E** Ridge Cap  
Part Code: 11517



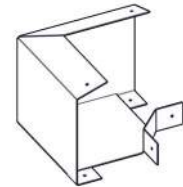
**F** Gutter  
Part Code: 11139



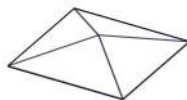
**G** Roof Panel W Style  
Aluminum Part Code: 10307  
Galvalume Part Code: 30106



**H** Cover Plate



**I** Corner Cap  
Part Code: 60048



**J** Peak Cap



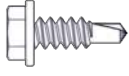
**K** Base Cap  
Part Code: 60063



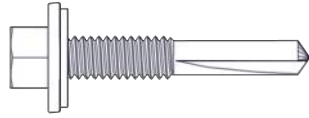
**L** Scupper  
Part Code: 90241

Screws shown actual size.

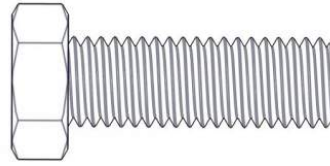
## Hardware List



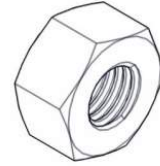
**AA** #8 x 1/2" Screw  
Part Code: 20102



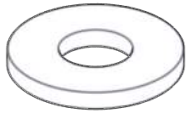
**BB** #12 x 1-1/4" Screw  
Part Code: 20201



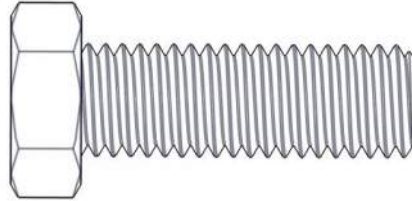
**CC** 1/2" Hex Bolt  
Length Varies



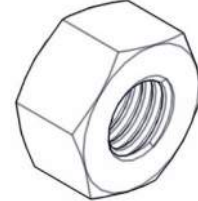
**DD** 1/2" Hex Nut  
Part Code: 20530



**EE** 1/2" Washer  
Part Code: 20910



**FF** 5/8" Hex Bolt  
Length Varies



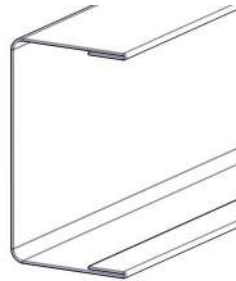
**GG** 5/8" Hex Nut  
Part Code: 20531

NOTE: Bolt diameter and length determined by factors such as loading requirements, plate thicknesses, etc. Always check the provided manufacturer's drawing for bolt specifications required at each connection point.

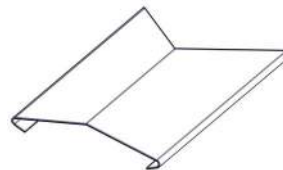
## OPTIONAL Parts



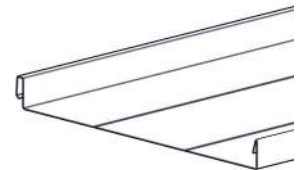
**N** Cupola (shown with optional louvers)



**O** Cupola Flashing



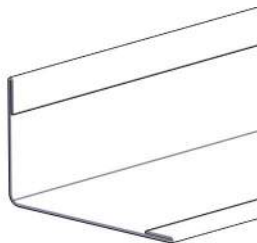
**P** Ridge Cap Flashing



**Q** 18" Wide Standing Seam Panel  
Part Code: 30120



**R** Wood Roof C Cap



**S** SS Panel C Cap

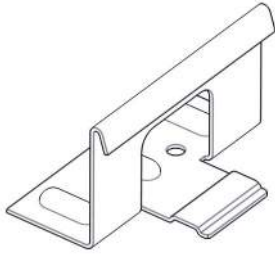


**T** Wood Roof V Flashing

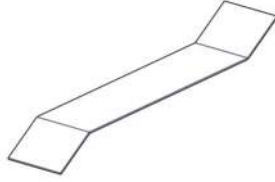


**U** Drip Edge Flashing

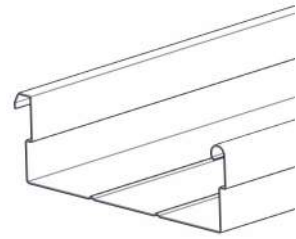
## OPTIONAL Parts (continued)



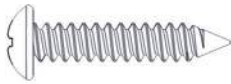
**V** SS Panel Clip  
Part Code: 20836



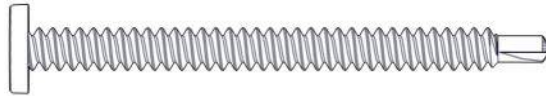
**W** Gutter Strap



**X** 8" Wide Standing  
Seam Panel  
Part Code: 10214



**HH** #10 x 1" Screw  
Part Code: 20650



**||** #14 x 2-3/4" Screw  
Part Code: 20663

*NOTE: All required concrete work must be completed and anchor bolts set prior to beginning this installation.*

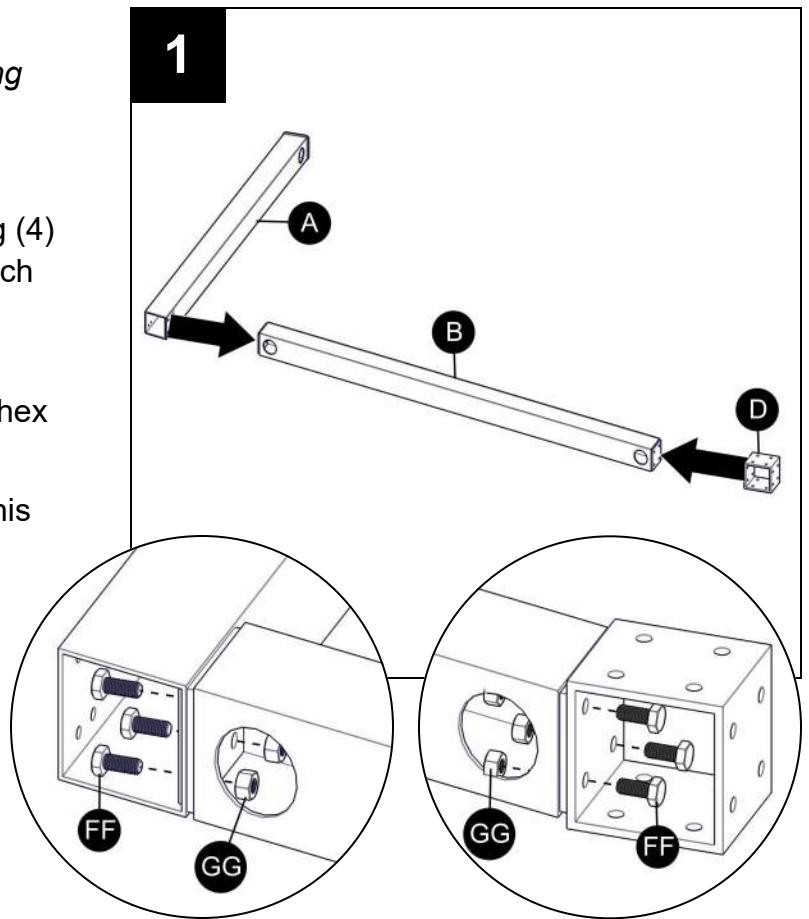
### STEP 1

Layout all posts **(A)** and rafters **(B)**. Attach using (4) 5/8" hex bolts **(FF)** and 5/8" hex nuts **(GG)** at each assembly.

Attach tie block **(D)** at the end of one post/rafter assembly using (4) 5/8" hex bolts **(FF)** and 5/8" hex nuts **(GG)**.

DO NOT completely tighten bolts at this time. This will help when installing other components.

*NOTE: Access holes on rafters **(B)** face UP.*



### STEP 2

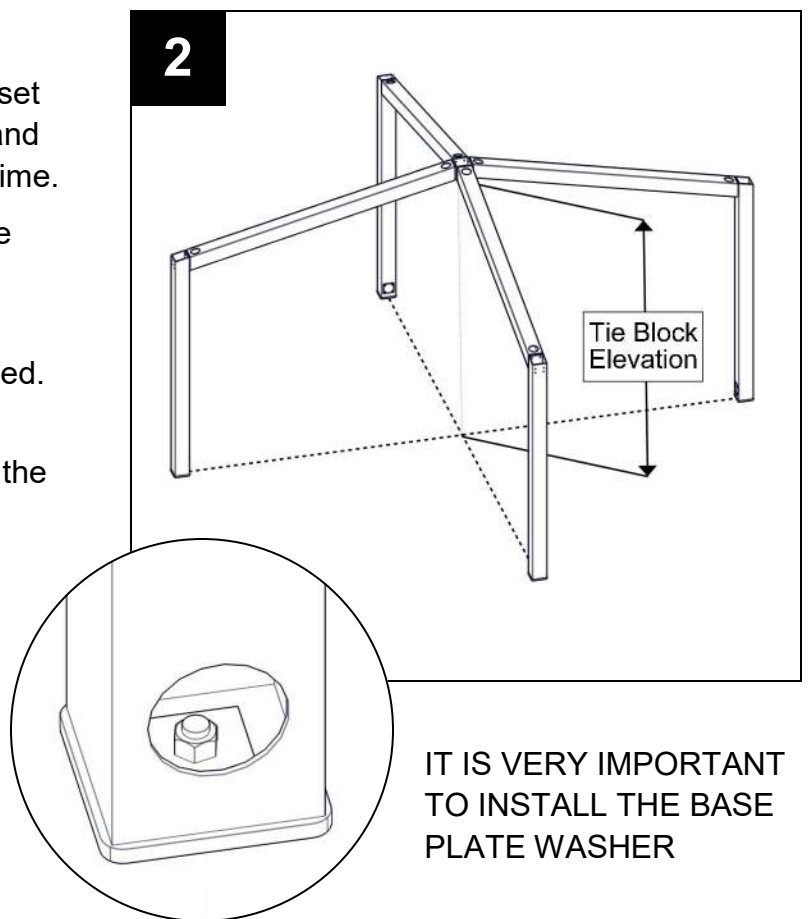
Stand up the post/rafter/tie block assembly and set over an anchor bolt. Attach the anchor bolt nut and washer, but DO NOT completely tighten at this time.

Stand up a post/rafter assembly and set over the anchor bolt adjacent to the previous assembly. Attach to tie block **(D)** as shown in Step 1.

Repeat until all post/rafter assemblies are installed.

Using a fork lift, screw-jack, or lumber and shim support, set the tie block elevation as shown on the provided manufacturer's drawing.

*NOTE: This is important in being able to square the unit, plumb the posts, make connections, prevent gaps, and install all components. Adjusting the elevation of the tie block **(D)** during installation can help in making connections of various components; however, be certain to re-set to the correct elevation.*

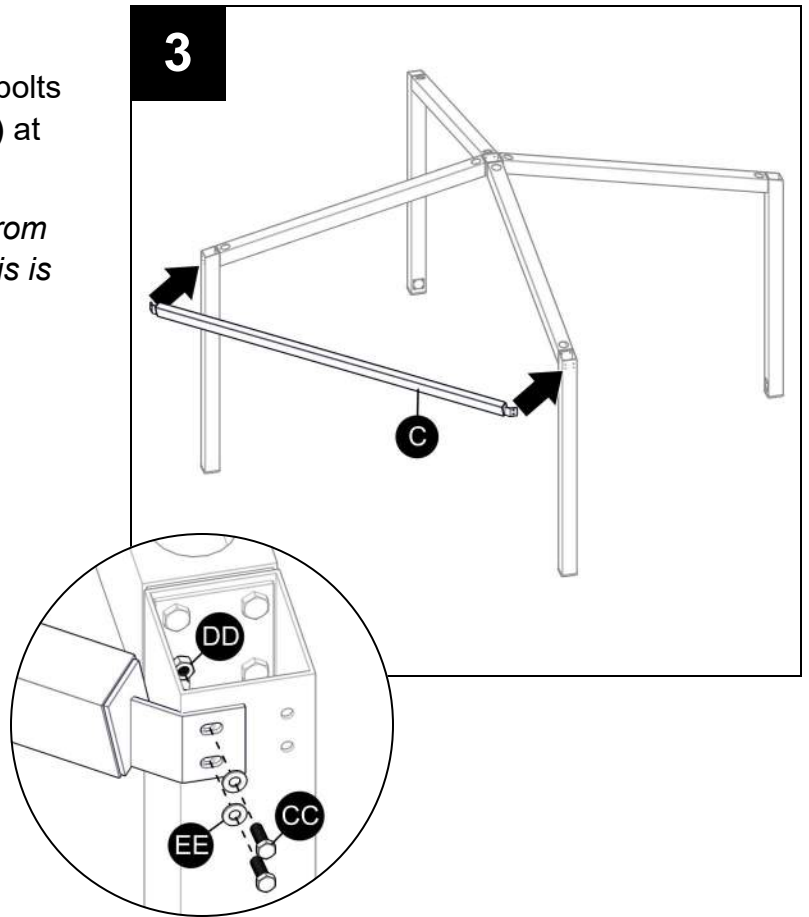


### STEP 3

Attach purlin (C) to posts (A) using (2) 1/2" hex bolts (CC), 1/2" hex nuts (DD), and 1/2" washers (EE) at each connection.

*NOTE: Purlins (C) must slope down and away from the shelter, following the slope of rafters (B). This is necessary so the roof panels will lay flat on the purlins.*

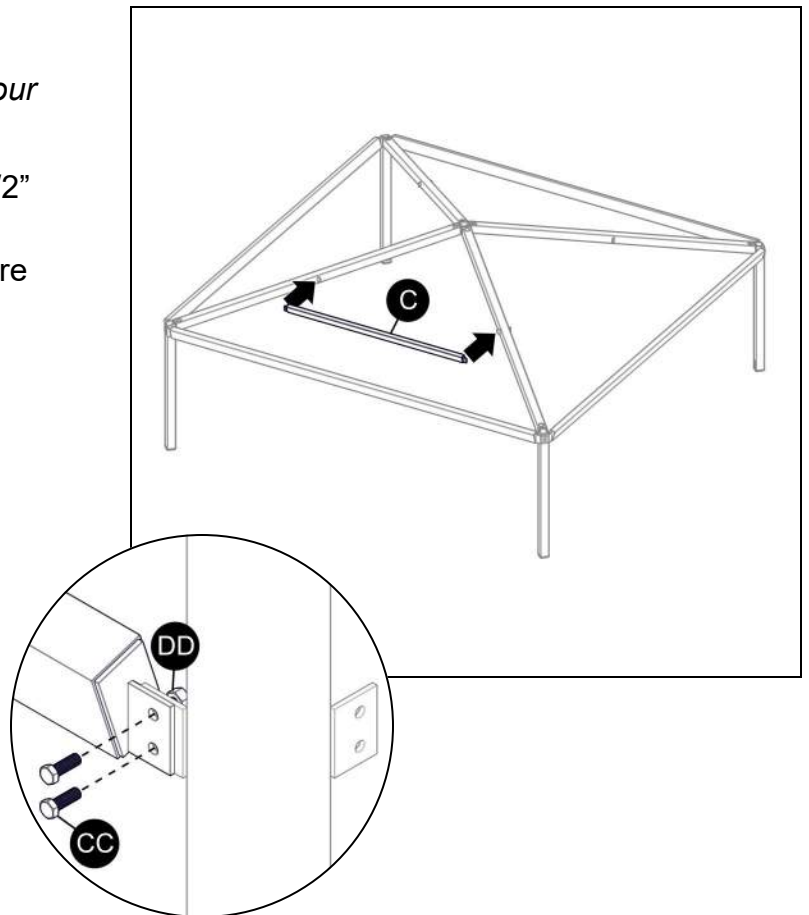
Repeat to install all purlins (C).



### OPTIONAL - Upper Purlin Assembly

*Depending on size and loading requirements, your shelter may require additional purlins (C).*

Attach upper purlin (C) to rafters (B) using (2) 1/2" hex bolts (CC) and 1/2" hex nuts (DD) at each connection. If the holes in the mounting plates are slotted, 1/2" washers (EE) must also be used.



## STEP 4

Once the steel frame is completed, tighten all bolts and nuts at each connection.

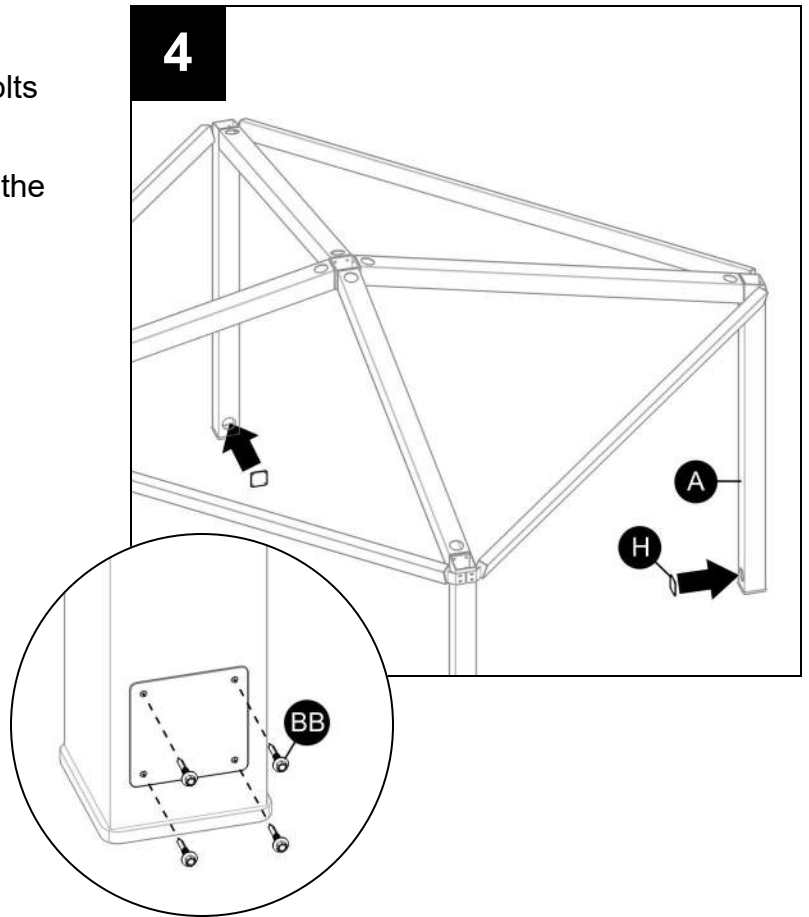
Position cover plate **(H)** over the access hole at the bottom of post **(A)**. Attach the cover plate to the post using (4) #12 x 1-1/4" screws **(BB)**.

Repeat for all posts **(A)**.

***If a cupola was ordered with your shelter, complete cupola assembly on page 10 now.***

***If installing wood sub-roof:  
Go to page 11***

***If installing roof panels (G), (Q), or (X):  
Continue to Step 5***



## STEP 5

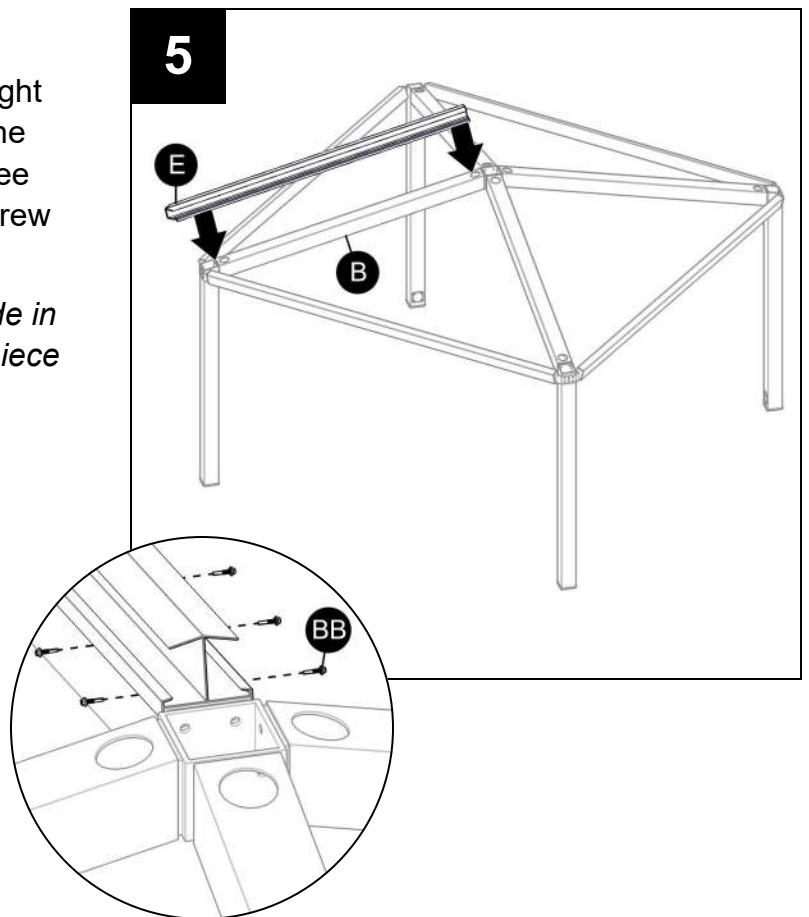
Position ridge cap **(E)** on rafter **(B)** with the straight end of the ridge cap set against the top end of the rafter. Attach using #12 x 1-1/4" screws **(BB)**. See provided manufacturer's drawing for required screw spacing.

***NOTE: Occasionally, ridge cap (E) must be made in two pieces. If this happens, install the shortest piece at the top and work down.***

Repeat to install all ridge caps **(E)**.

***If installing 'W' style roof panels (G):  
Go to page 15***

***If installing standing seam panels (Q) or (X):  
Go to page 17***



## OPTIONAL - Cupola Assembly

Cupola (**N**) is sent fully assembled.

Center and square cupola (**N**) on rafters (**B**) over tie block (**D**). Attach the cupola to the rafters using (3) #12 x 1-1/4" screws (**BB**) through the pre-drilled holes in the mounting plate at each corner of the cupola.

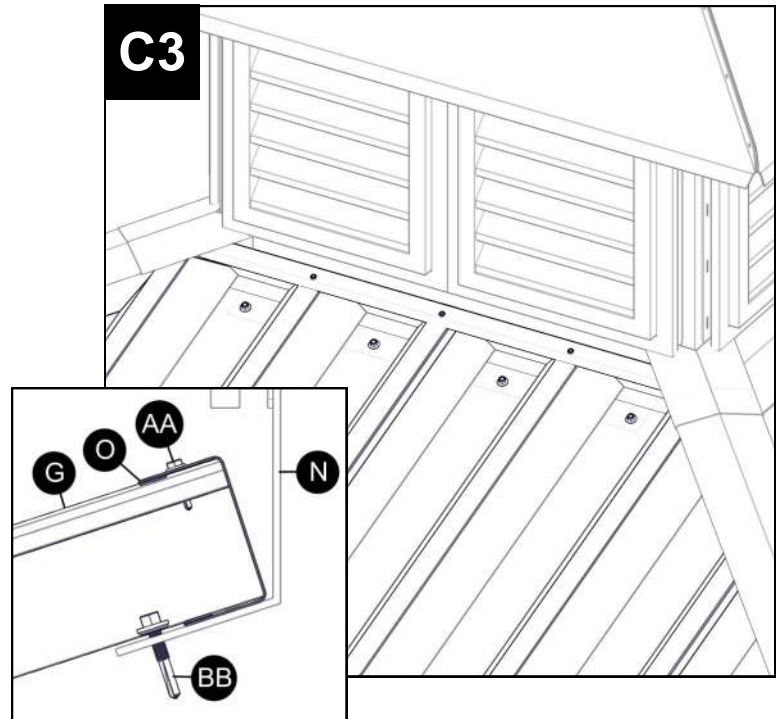
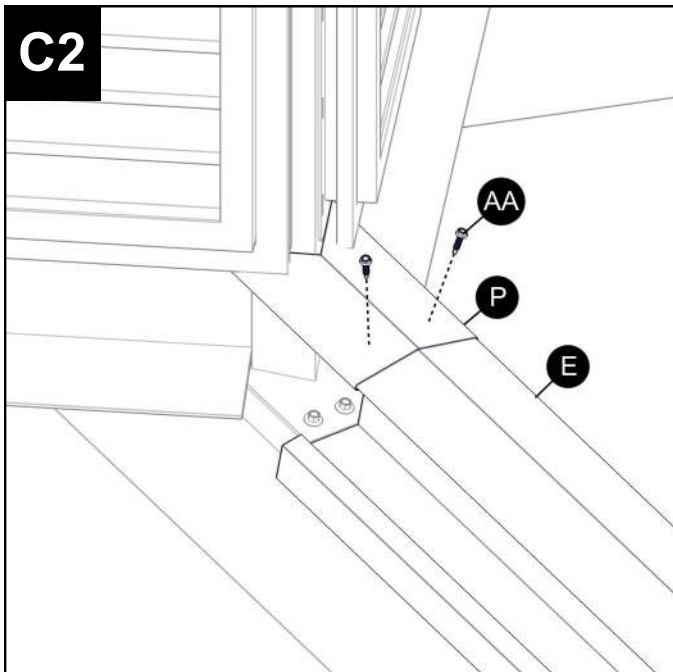
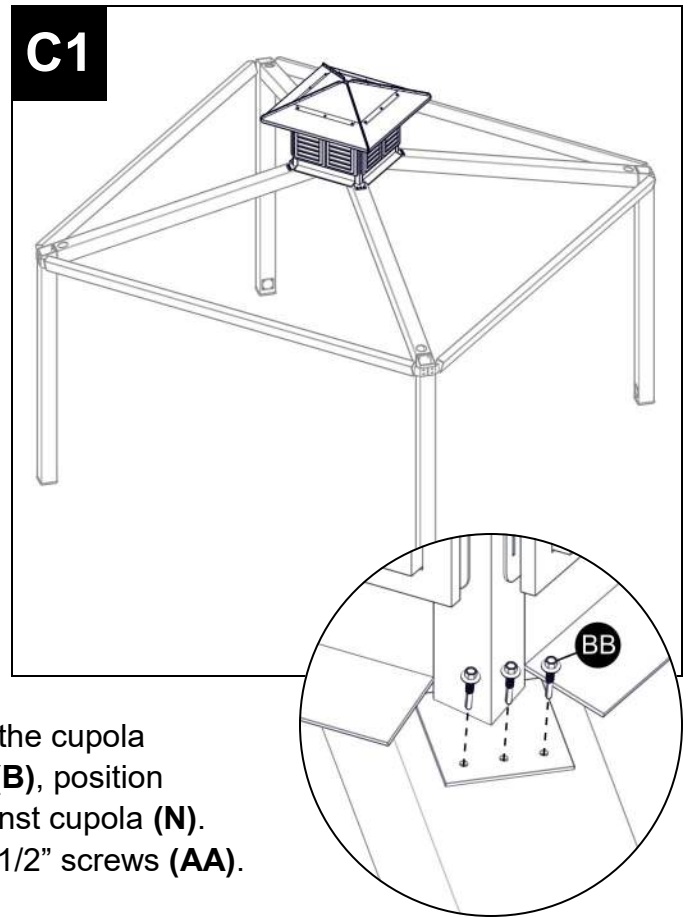
If you ordered a louvered cupola and the louvers are not already installed, remove the louver screw cover cap and attach the louver to the cupola frame using #12 x 1-1/4" screws (**BB**) at each corner of the louver. Then re-attach the screw cover cap.

### Continue with Step 5 on page 9

Set the straight end of ridge cap (**E**) against the edge of the cupola mounting plate. Once ridge cap (**E**) is attached to rafter (**B**), position ridge cap flashing (**P**) on top of the ridge cap and fit against cupola (**N**). Attach ridge cap flashing (**P**) to ridge cap (**E**) using #8 x 1/2" screws (**AA**).

### Continue until Step 6 on page 15

The longest roof panels (**G**) attach to the bottom flange of cupola (**N**). First, fit cupola flashing (**O**) over the top end of roof panels (**G**), then attach as shown in Step 7. Once all roof panels (**G**) are installed, attach cupola flashing (**O**) to the roof panels using #8 x 1/2" screws (**AA**) at 8" on center.



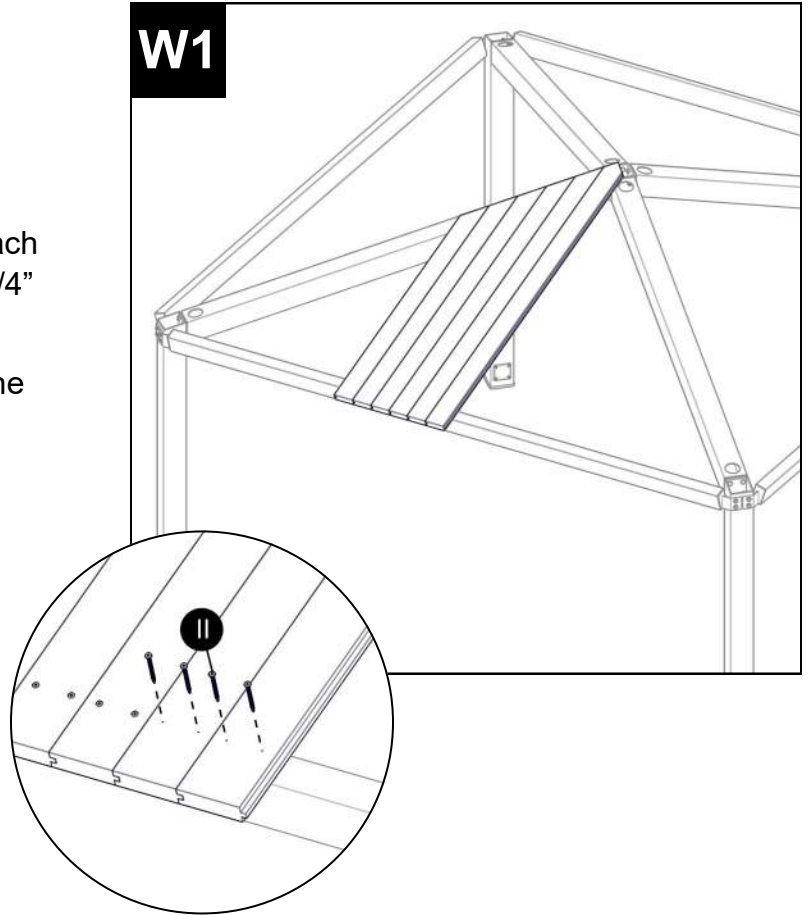
## OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

### STEP W1

*Boards for the wood sub-roof are sent in stock lengths and must be cut to fit in the field.*

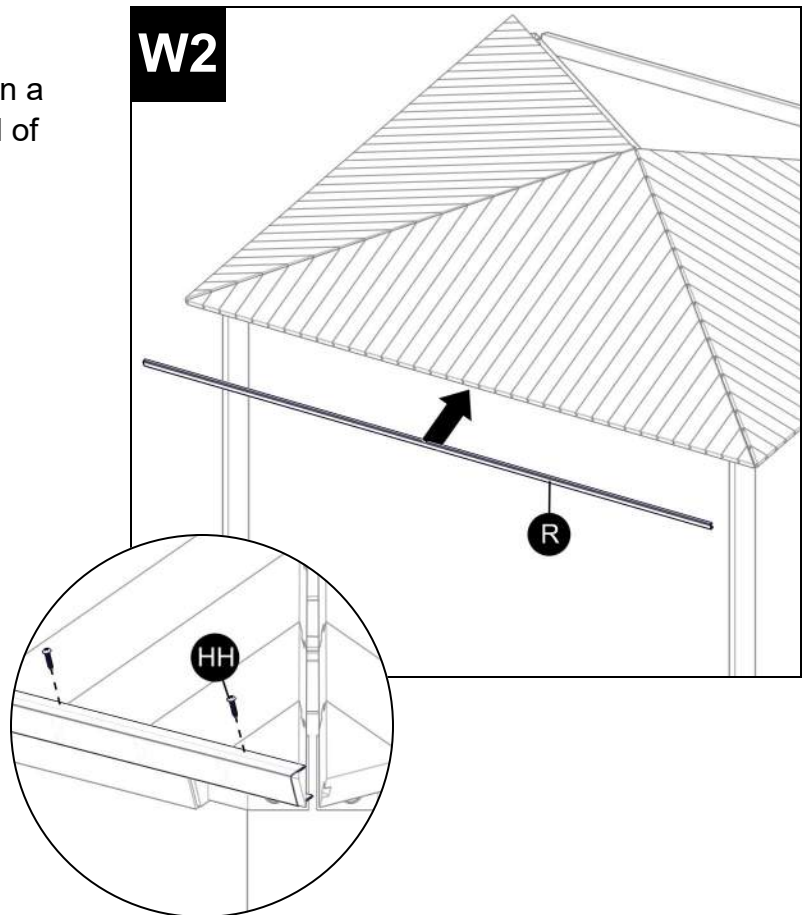
Cut and place the wood decking in position. Attach to rafters (**B**) and purlins (**C**) using (2) #14 x 2-3/4" wing-tip screws (**II**) at each connection.

Repeat to install the wood sub-roof in at least one complete section of the roof.



### STEP W2

Once the wood sub-roof is completely installed in a roof section, attach C Cap (**R**) to the bottom end of the boards using #10 x 1" screw (**HH**) at 12" on center.

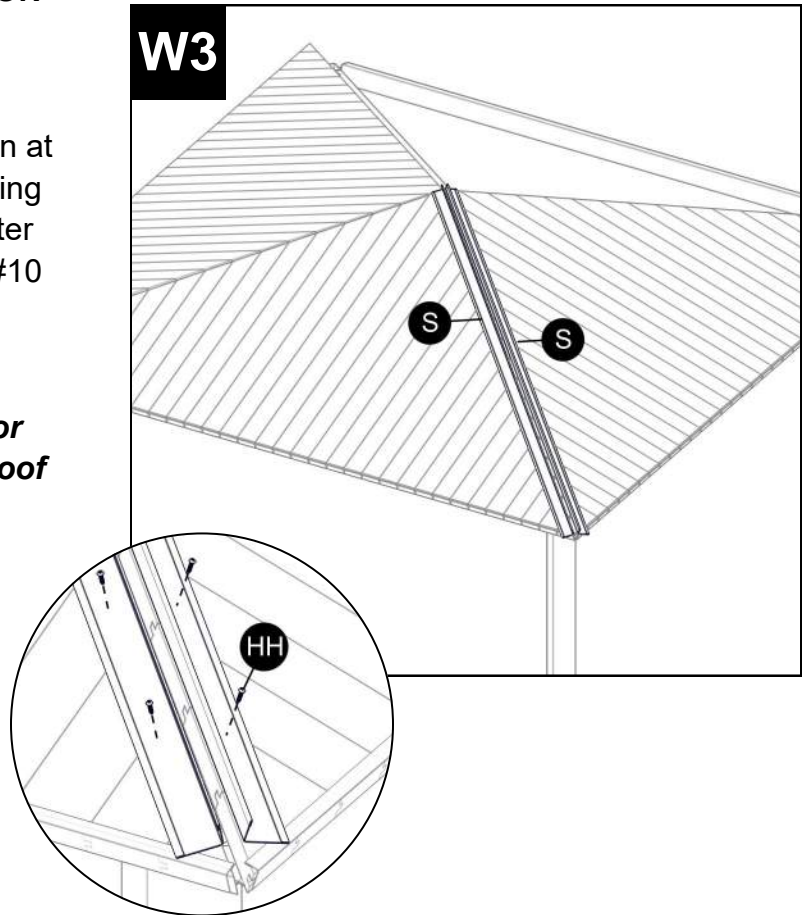


## OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

### STEP W3

Once the wood sub-roof is completely installed in at least two adjacent roof sections, position L flashing (**S**) back-to-back along each ridge, over the center of rafter (**B**). Attach to the wood sub-roof using #10 x 1" screw (**HH**) at 12" on center.

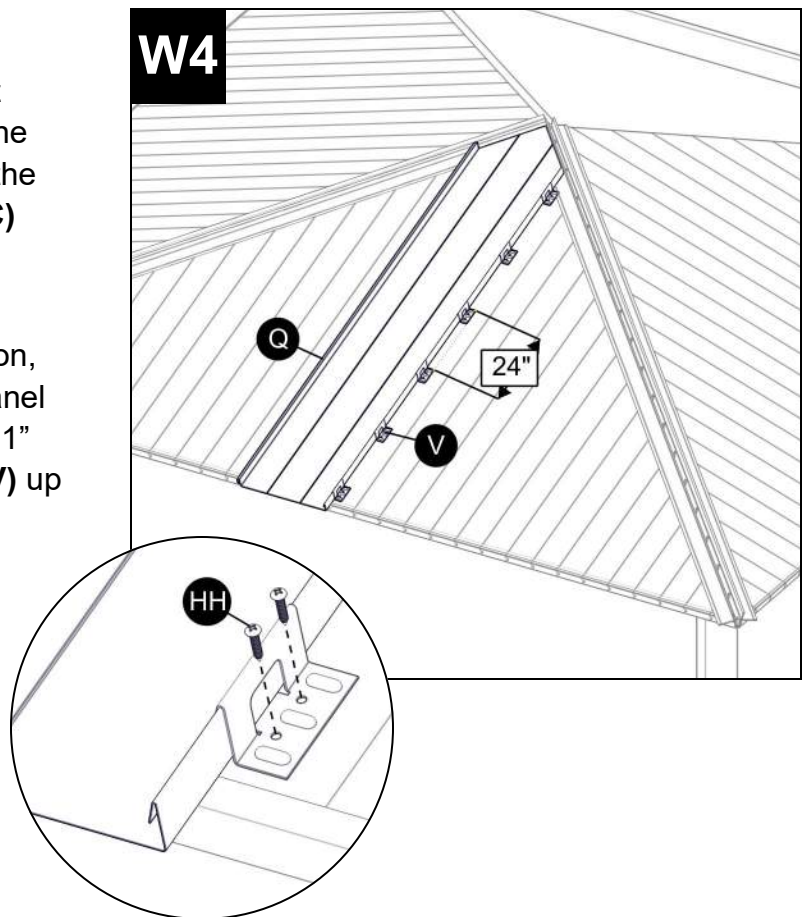
*Continue to install standing seam panel (Q) or go to Step 6 on page 15 to install 'W' Style Roof Panel (G).*



### STEP W4

Begin roof panel (**Q**) installation with the longest panel. Set the panel on the shelter and line up the center of the panel lock at the pointed end with the center of tie block (**D**) and the center of purlin (**C**) (see Step 6 for detail). Recommended minimum overhang is 1".

With the roof panel (**Q**) held in the correct position, fit mounting clip (**V**) over the small lock of the panel and attach to the wood sub-roof using (2) #10 x 1" screws (**HH**). Attach additional mounting clips (**V**) up the length of the panel at 24" on center.



## OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

### STEP W5

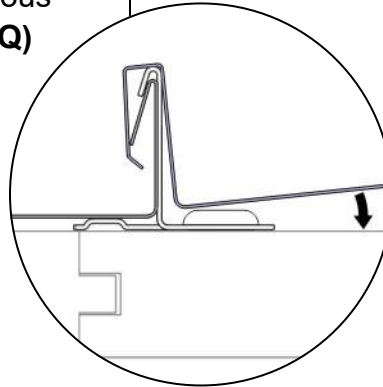
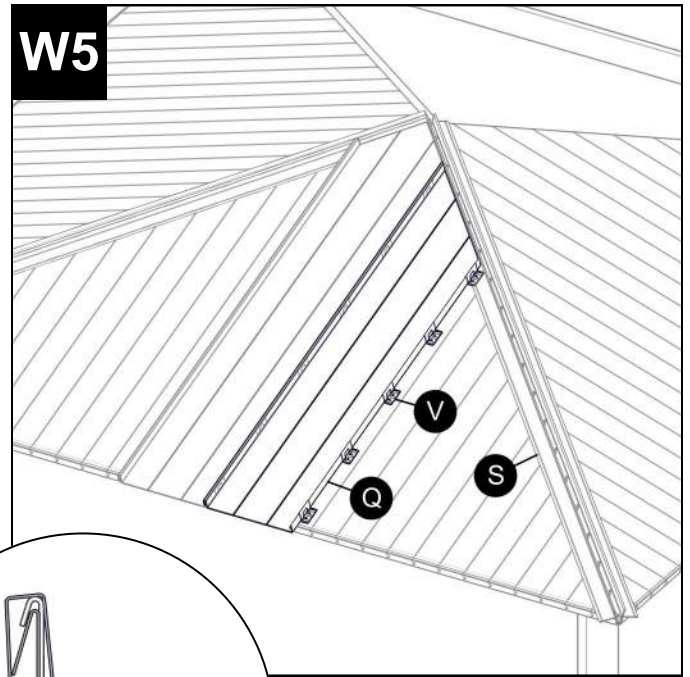
Position the next roof panel (**Q**) over the lock of the panel already installed and snap the locks together.

Use L flashing (**S**) as a guide up the ridges and keep the bottom of the panels flush. As each panel is installed, repeat Step W4 to attach mounting clips (**V**).

Repeat to install remaining roof panels (**Q**).

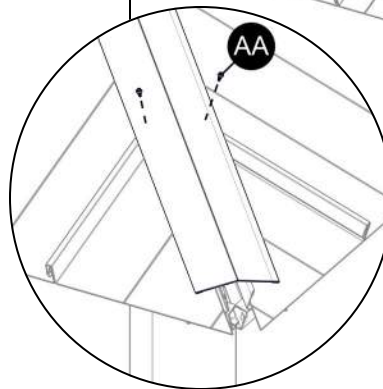
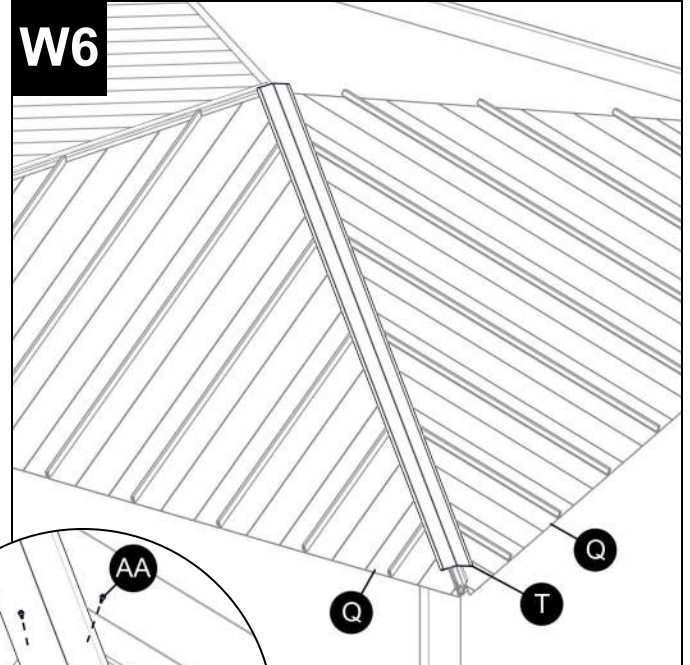
As each roof panel (**Q**) is installed, or after all panels in a section are installed, apply a continuous bead of caulk at the ridge between roof panels (**Q**) and L flashing (**S**).

*NOTE: To achieve best roof panel installation, it is very important to hold the 18" center-to-center spacing of the roof panel locks at the top and bottom of the panels.*



### STEP W6

Once two adjacent roof panel sections are completed, position V flashing (**T**) along the ridge. Attach to each lock of roof panels (**Q**) using #8 x 1/2" screw (**AA**).

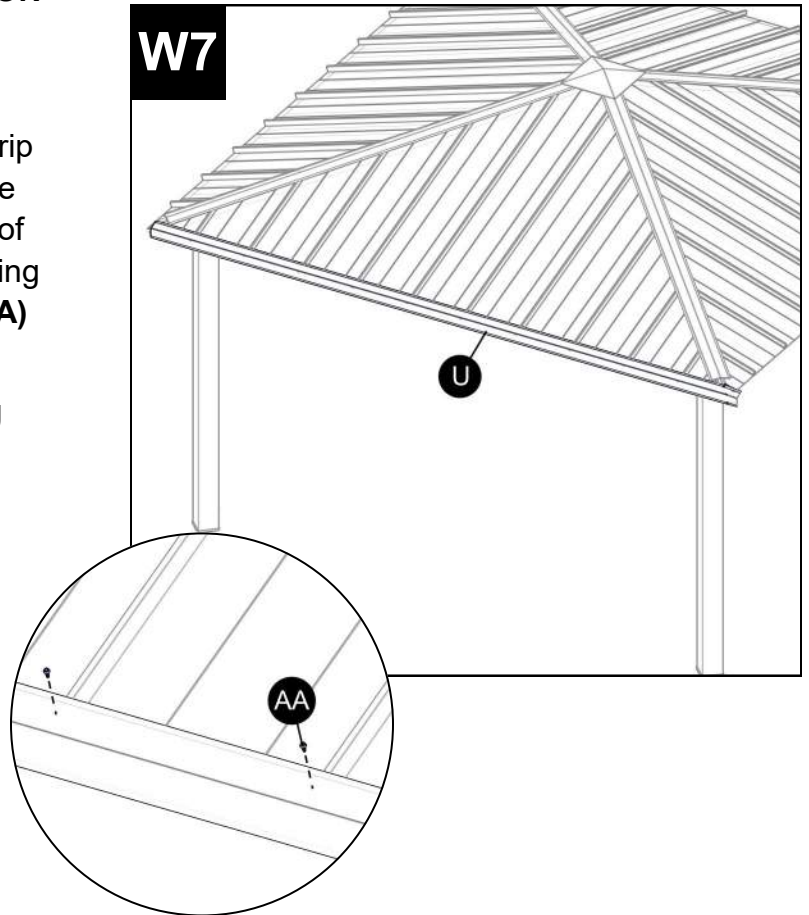


## OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

### STEP W7

Once all roof panels (**Q**) are installed, position drip edge flashing (**U**) over the bottom end. Allow one side of the flashing to overhang the bottom end of the adjacent roof section. Attach drip edge flashing (**U**) to roof panels (**Q**) using #8 x 1/2" screws (**AA**) at 18" on center.

Repeat to install all remaining drip edge flashing (**U**).

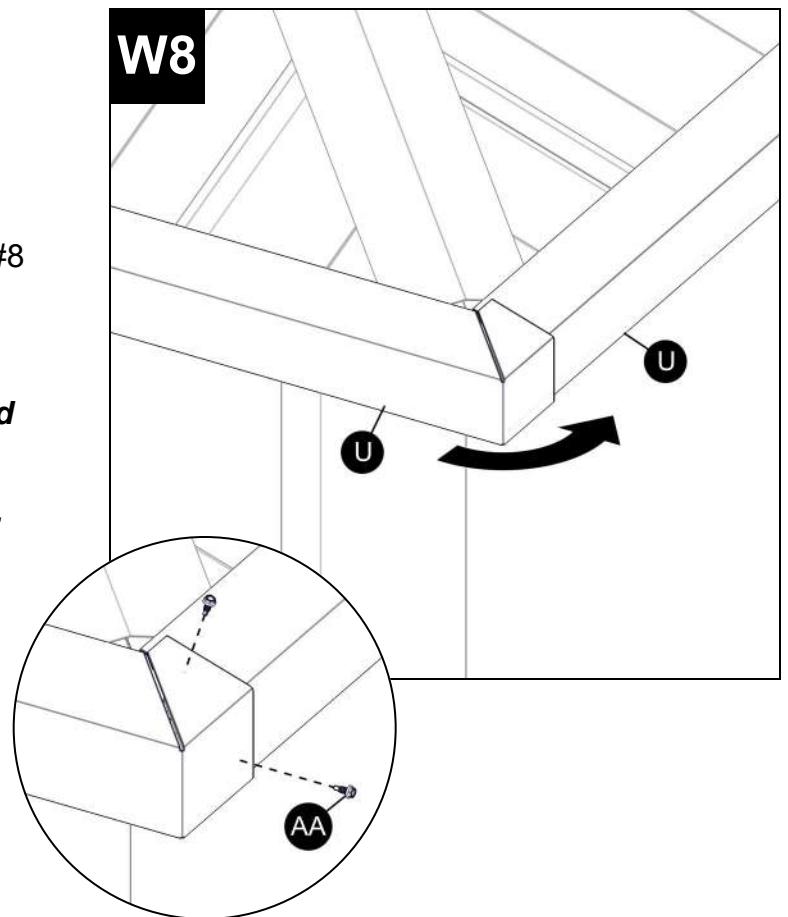


### STEP W8

At the overhanging end, notch the top leg of drip edge flashing (**U**) approximately even with the bottom end of the adjacent roof section. Bend the extra material over to form a corner with the adjacent drip edge flashing (**U**) and attach using #8 x 1/2" screws (**AA**).

*To complete assembly, install peak cap (J) and base cap (K) as shown in Step 9 on page 16.*

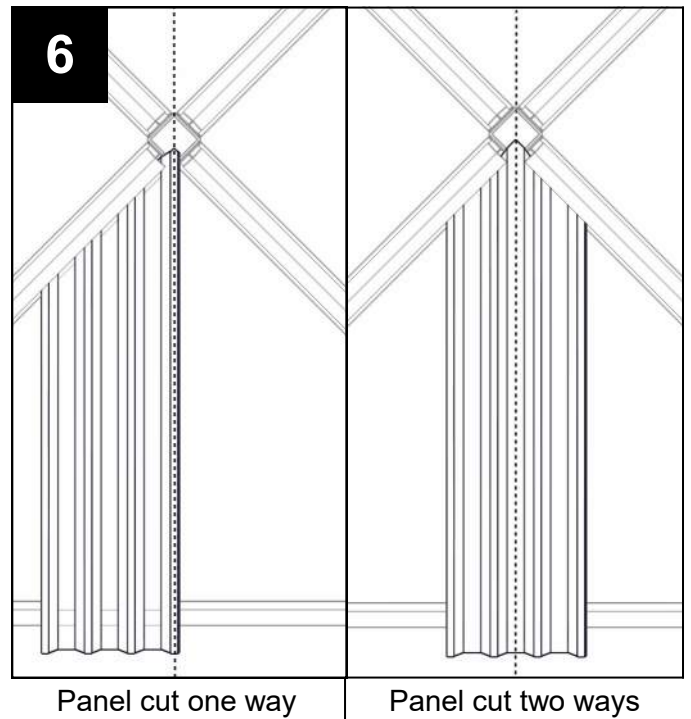
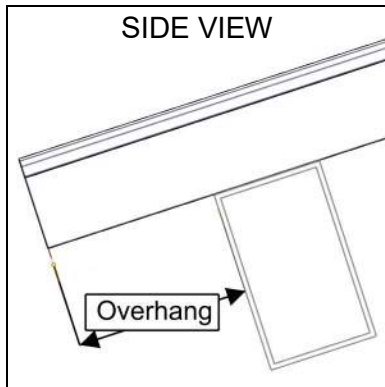
*See "Assembly Completed" notes on page 20.*



## STEP 6

Begin roof panel (**G**) installation with the longest panel. Set the panel on the shelter and line up the center of the panel lock at the pointed end with the center of tie block (**D**) and the center of purlin (**C**).

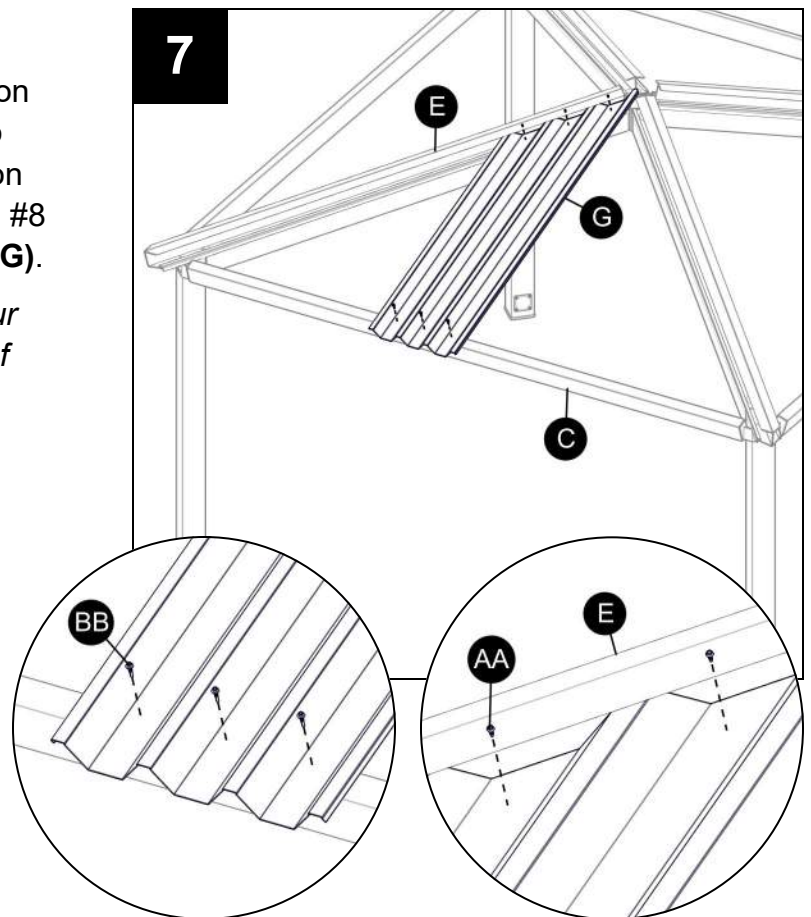
Fit the roof panel (**G**) into ridge cap (**E**) and match the overhang from purlin (**C**) with the dimension shown on the provided manufacturer's drawing. Keep the bottom end of the panel parallel with purlin (**C**).



## STEP 7

With the roof panel (**G**) held in the correct position as described in Step 6, attach the bottom end to purlin (**C**) using #12 x 1-1/4" screws (**BB**) at 8" on center. Attach the top end to ridge cap (**F**) using #8 x 1/2" screws (**AA**) at each valley of roof panel (**G**).

*NOTE: Depending on loading requirements, your shelter may require (2) screws (**BB**) at each roof panel valley into purlin (**C**). Check the provided manufacturer's drawing.*



## STEP 8

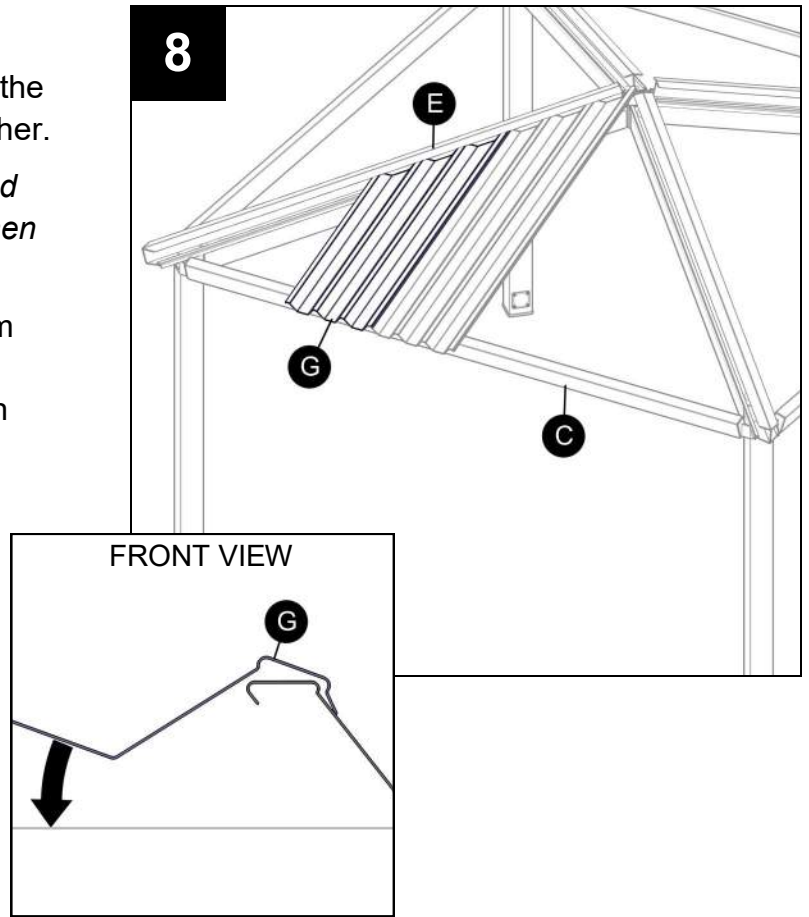
Position the next roof panel (**G**) over the lock of the panel already installed and snap the locks together.

*HINT: Holding a spare board under the locks and tapping on top with a rubber mallet may help when joining roof panels.*

Slide the panel into ridge cap (**E**) until the bottom end is flush with the previous panel. Attach the panel to purlin (**C**) and ridge cap (**E**) as shown in Step 6.

Repeat until all roof panels (**G**) are installed in one section of the roof.

*NOTE: To achieve best roof panel installation, it is very important to hold the 24" center-to-center spacing of the roof panel locks at the top and bottom of the panels.*



## STEP 9

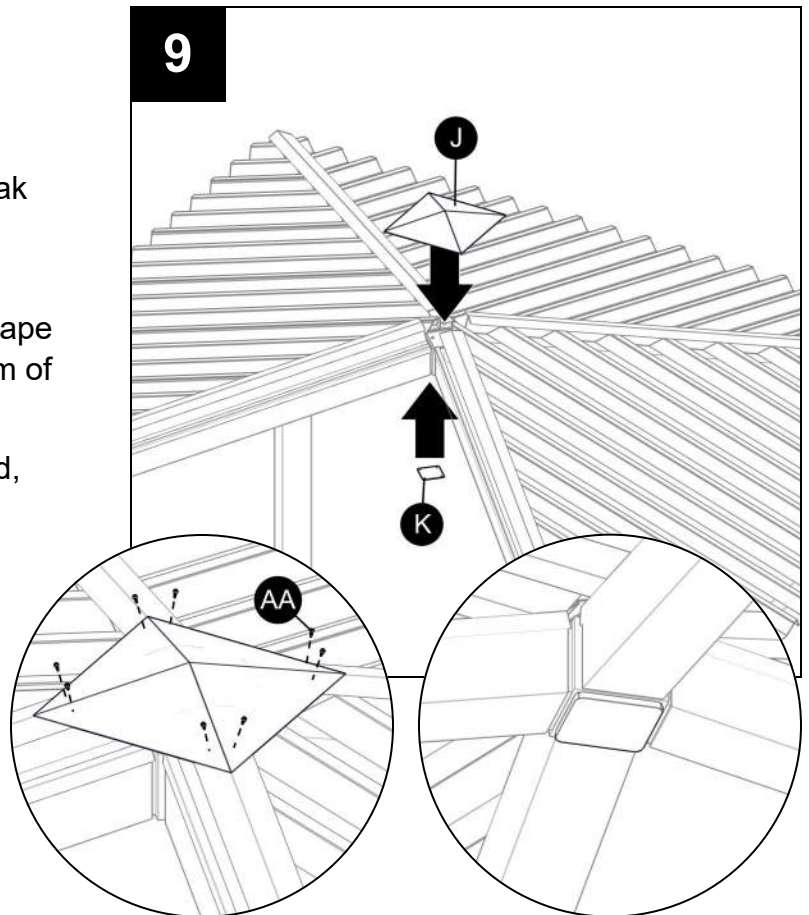
Repeat Steps 6-8 to complete roof panel (**G**) installation in two more sections of the roof.

Before installing the final roof section, attach peak cap (**J**) to ridge caps (**E**) using #8 x 1/2" screws (**AA**).

Apply double-sided, self-adhesive construction tape to base cap (**K**). Fit the base cap over the bottom of tie block (**D**) and secure in position.

After peak cap (**J**) and base cap (**K**) are installed, repeat Steps 6-8 again to install the remaining roof section.

**Continue with Step 10 on page 19**



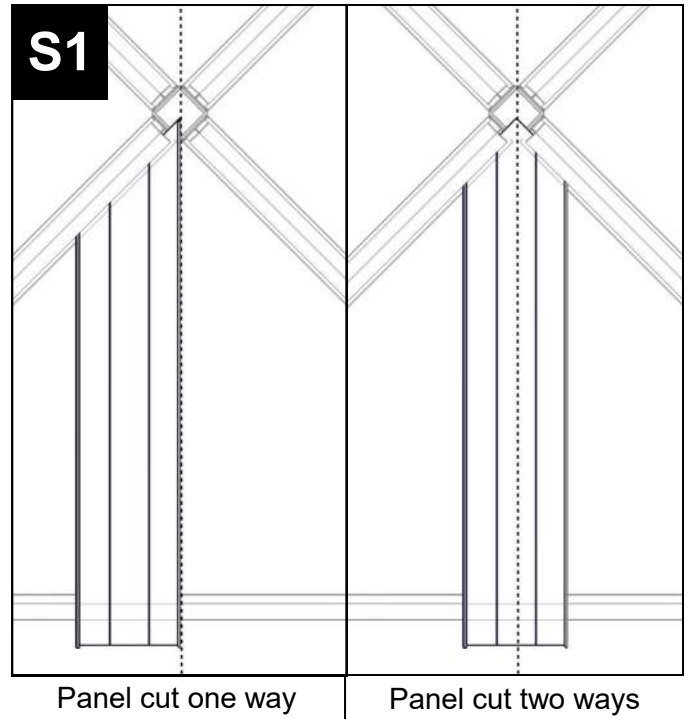
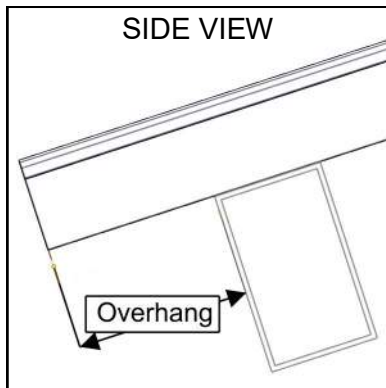
## OPTIONAL - STANDING SEAM ROOF PANELS

Follow the steps below to install standing seam roof panels 18" wide (Q) or 8" wide (X). 18" wide (Q) is shown.

### STEP S1

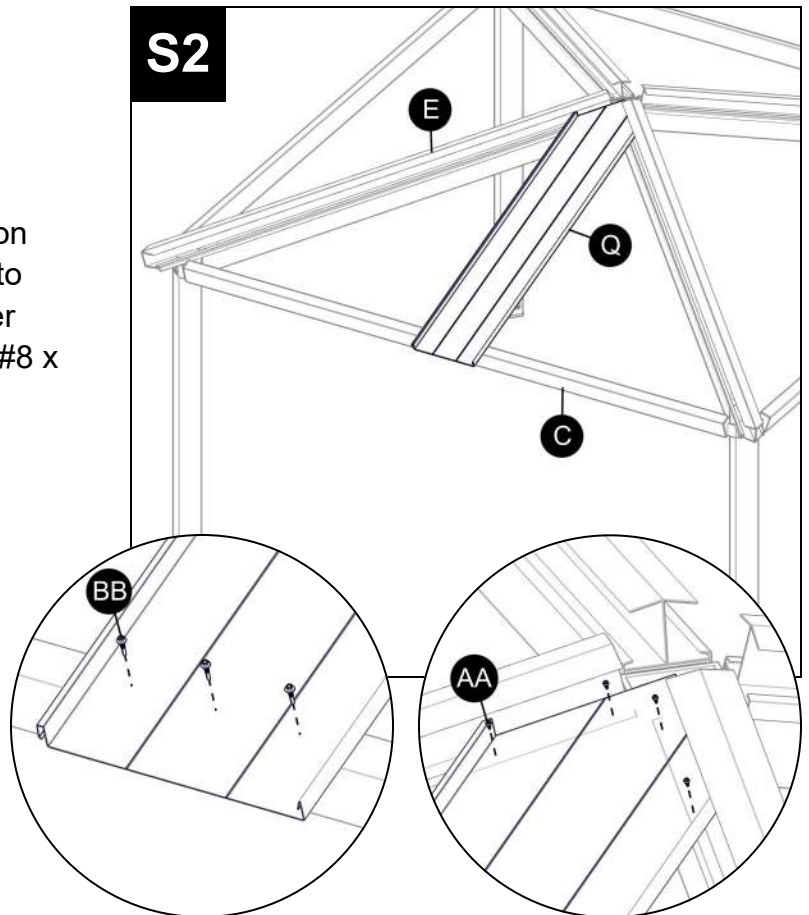
Begin roof panel (Q) installation with the longest panel. Set the panel on the shelter and line up the center of the panel lock at the pointed end with the center of tie block (D) and the center of purlin (C).

Fit the roof panel (Q) into ridge cap (E) and match the overhang from purlin (C) with the dimension shown on the provided manufacturer's drawing. Keep the bottom end of the panel parallel with purlin (C).



### STEP S2

With the roof panel (Q) held in the correct position as described in Step S1, attach the bottom end to purlin (C) using #12 x 1-1/4" screws (BB), (3) per panel. Attach the top end to ridge cap (F) using #8 x 1/2" screws (AA), (3) per panel.



## OPTIONAL - STANDING SEAM ROOF PANELS

### STEP S3

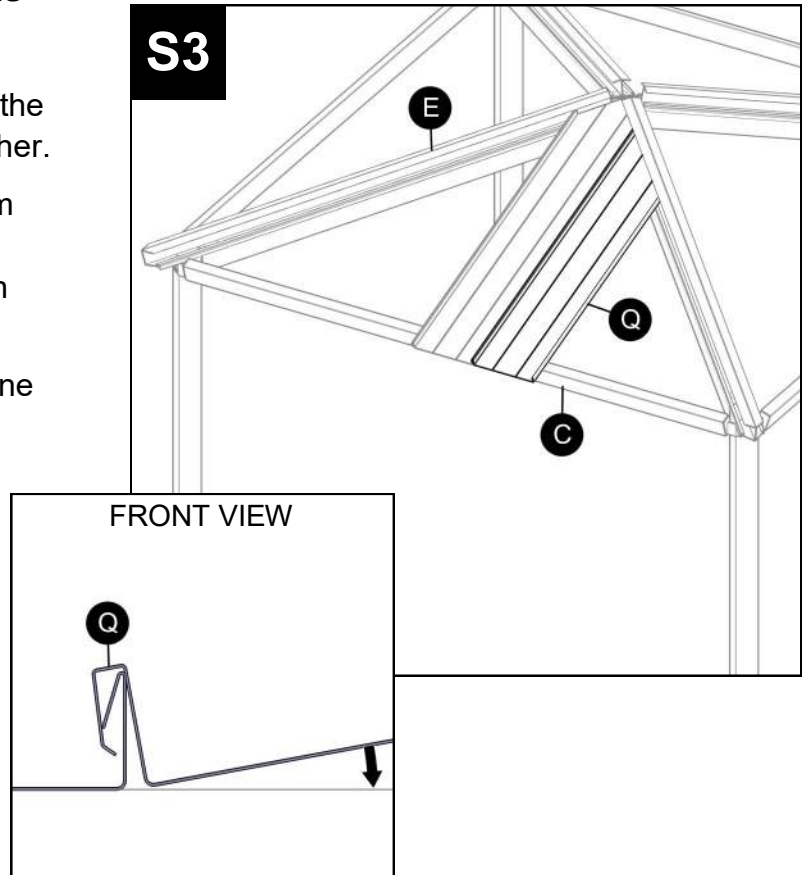
Position the next roof panel (**Q**) over the lock of the panel already installed and snap the locks together.

Slide the panel into ridge cap (**E**) until the bottom end is flush with the previous panel. Attach the panel to purlin (**C**) and ridge cap (**E**) as shown in Step s2.

Repeat until all roof panels (**Q**) are installed in one section of the roof.

*NOTE: To achieve best roof panel installation, it is very important to hold the 18" center-to-center spacing of the roof panel locks at the top and bottom of the panels.*

Repeat Steps S1-S3 to install two more sections of the roof. Before installing the final roof section, complete Step 9 on page 16.

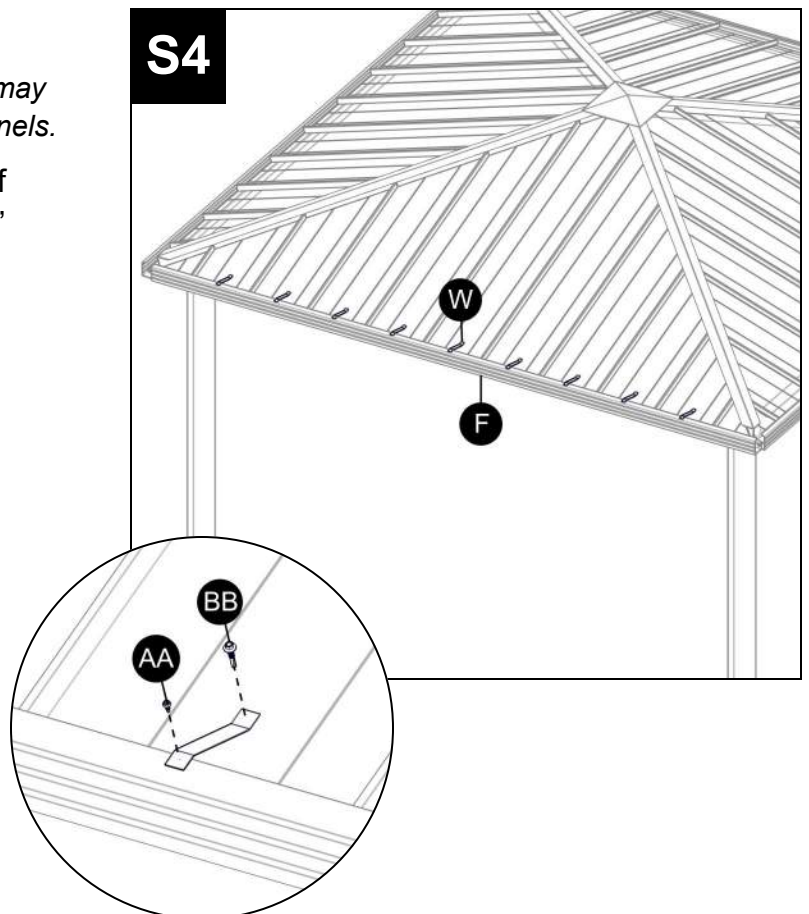
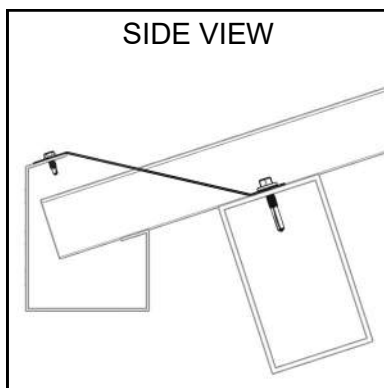


### STEP S4 - OPTIONAL GUTTER STRAPS

*Depending on loading requirements, special straps may be required to attach the gutter to standing seam panels.*

Position a gutter strap (**W**) at the center of a roof panel (**Q**). Attach to purlin (**C**) using #12 x 1-1/4" screw (**BB**). Attach to gutter (**F**) using #8 x 1/2" screw (**AA**).

**Continue with Step 11 on page 20**



## STEP 10

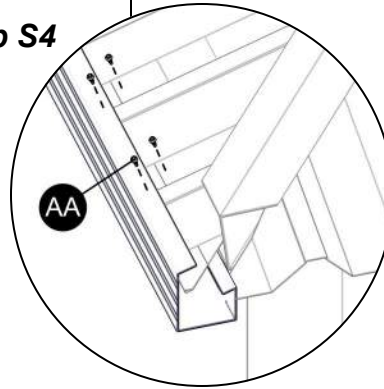
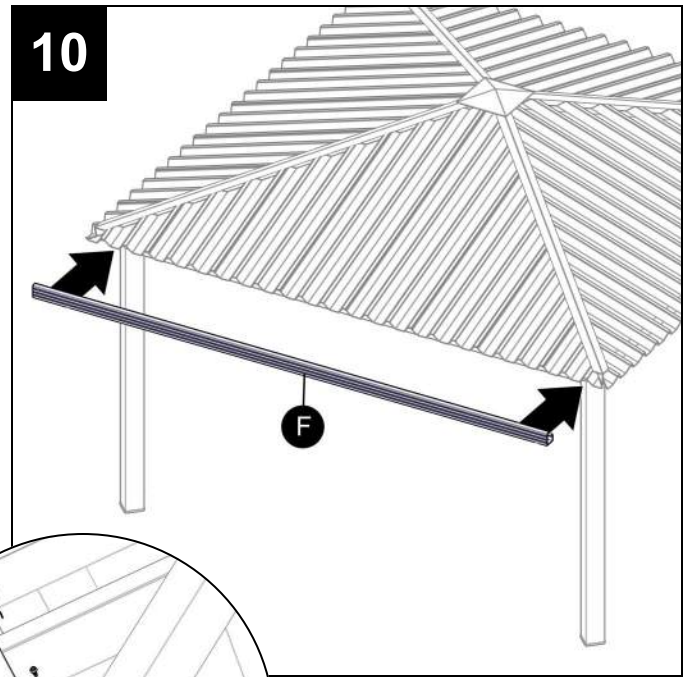
Position gutter (F) over the bottom end of roof panels (G). The inside of gutter (F) should be as close as possible to the angle-cut end of ridge cap (E). For proper fit, stagger the gutters around the shelter as shown below.

With gutter (F) held in position, attach the bottom and top lips to roof panels (G) at 8" on center using #8 x 1/2" screws (AA).

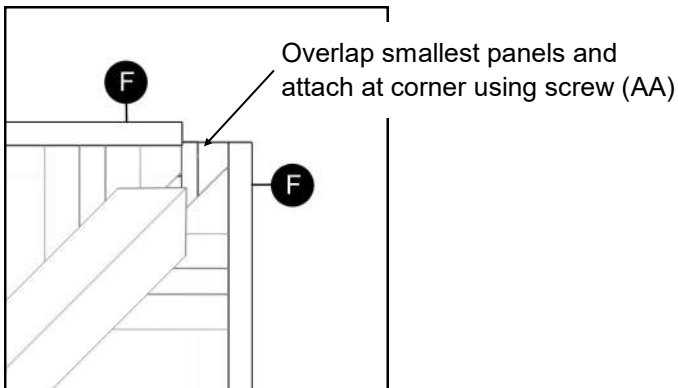
Repeat to install all gutters (F).

***If installing standing seam panels, go to Step S4 on page 18 if gutter straps are required.***

***Otherwise, continue with Step 11***



PLAN VIEW

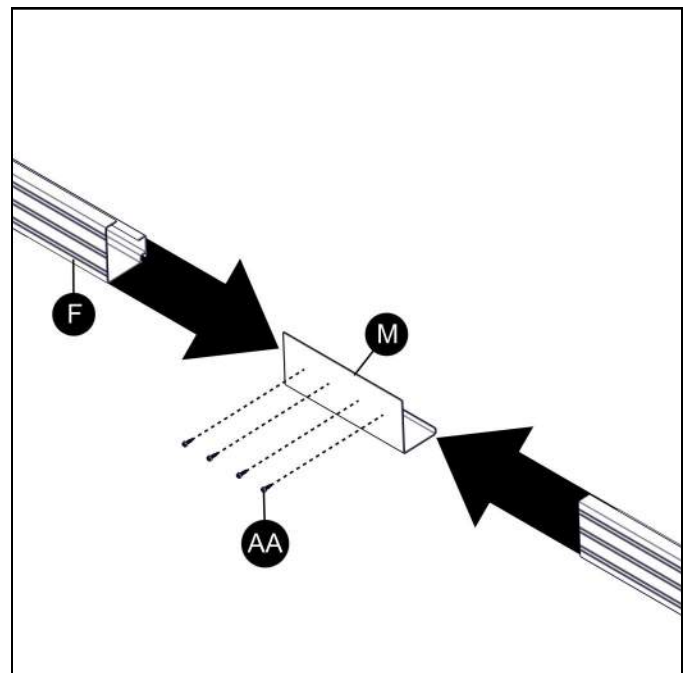


## OPTIONAL - Gutter Splice

*Complete this step only if gutter (F) is in two or more pieces.*

Apply a generous amount of caulk to the back and bottom of gutter splice (M) to prevent leaks. Insert an equal amount of the splice into the ends of the gutters (F).

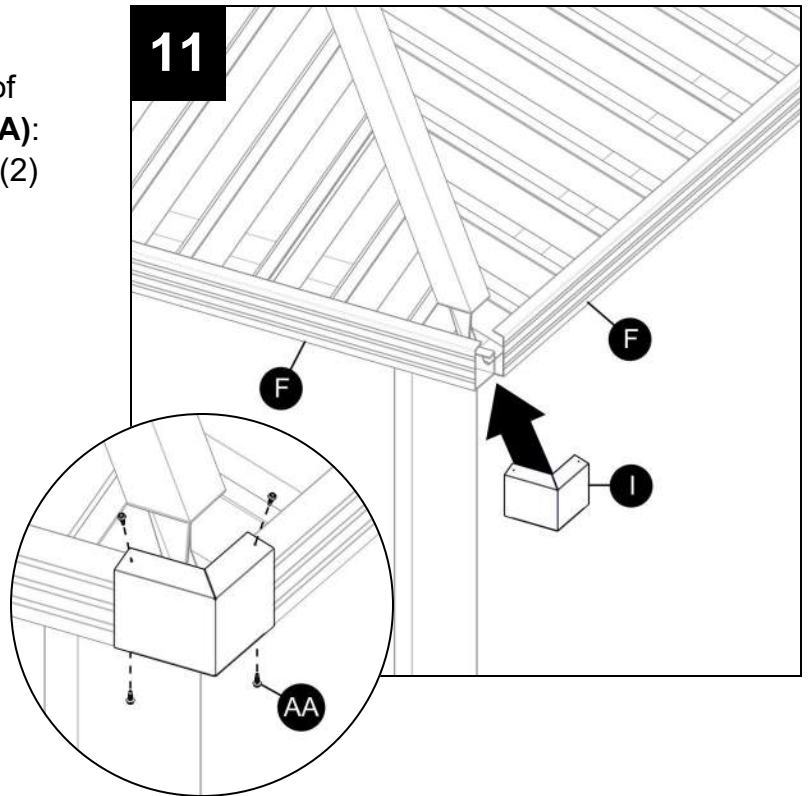
Attach gutter (F) to gutter splice (M) using (4) #8 x 1/2" screws (AA).



## STEP 11

Fit corner cap (**I**) over gutters (**F**) at any corner of the shelter. Attach using (6) #8 x 1/2" screws (**AA**): (2) through the top, (2) through the bottom, and (2) on the inside through the pre-drilled holes.

Repeat to install all corner caps (**I**).



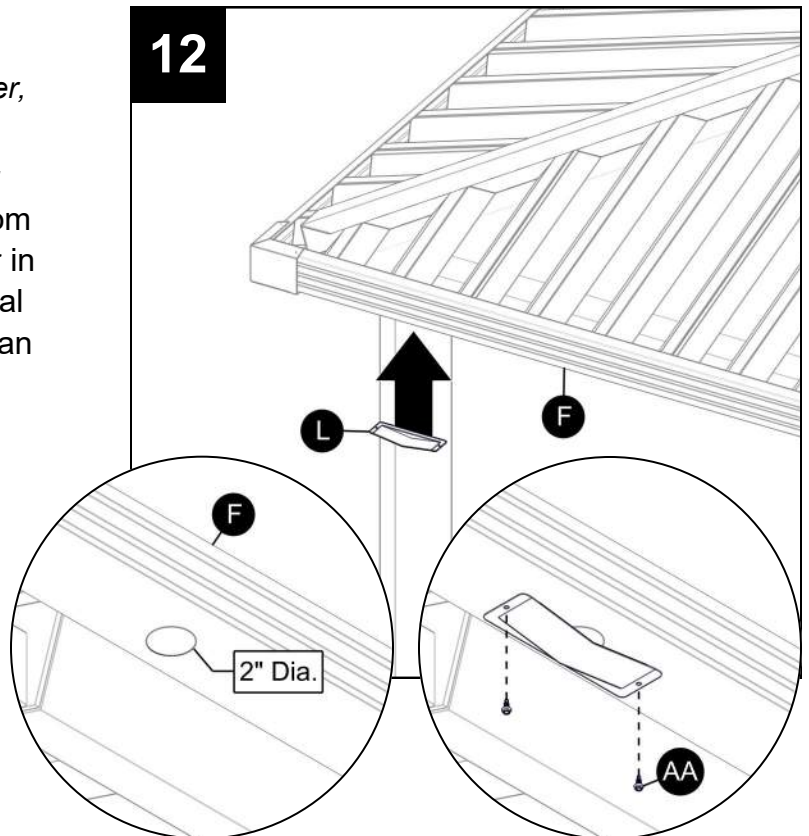
## STEP 12

*If optional downspout kit was received with your order, you may not have received scupper (**L**). Follow the separate downspout assembly instructions attached.*

Determine the desired location to drain water from gutter (**F**). Cut a hole no bigger than 2" diameter in the bottom of the gutter. Alternatively, drill several small holes in a rectangular pattern no bigger than 2" x 3".

Apply a generous bead of caulk around the top flange of scupper (**L**). Attach the scupper to gutter (**F**) using (2) #8 x 1/2" screws (**AA**).

Repeat for any remaining scuppers (**L**).



## ASSEMBLY COMPLETED

- Touch up paint has been supplied with the shelter to cover minor scratches or bolt and screw heads. Use a template to achieve a good finish and minimize over-spray.
- Be sure to sweep or brush all metal shavings off the shelter and leave the shelter in a clean condition to help prevent the rusting or staining of the surface finish.

## Warranty

### What the Warranty Covers:

Americana Building Products (Americana) warrants its products that have been installed in accordance with the installation guidelines, under normal usage conditions, and with proper maintenance as follows: Twenty-five (25) year limited warranty on steel against material failure and defects. Ten (10) year warranty against peeling, cracking, blistering, or crazing of the surface finish of aluminum and steel components. One (1) year warranty against defects in materials and workmanship.

### Period of Coverage:

The warranty period begins on the date of original shipment.

### What Americana Will Do To Correct Problems:

If defects or damage of the kind mentioned above should occur within the warranty period, Americana will replace the defective parts only; FOB its plant at Salem, Illinois, upon receiving the written and documented claim of purchaser.

### What the Warranty Excludes:

Because of normal aging and weathering of materials, it may not be possible to perfectly match the colors of original parts and replacement parts. Americana will not provide or pay for the installation of such replacement parts. Americana shall not be responsible for weather related failures, damages due to faulty installation, misuse or abuse of the product, or for consequential damages, including personal injuries or property damages. There are no warranties, express or implied, which extend beyond the description on the face hereof.

### How Do You Get Service:

If you believe that you have a claim under this warranty, submit a copy of your original receipt or other reasonable evidence of the date of purchase, the identity of the product, and photos and a description of the allegedly defective product to the address below. Please also include your name, address, and phone number so that a customer service representative can respond to your submission. Ultimate determination of the existence and extent of any claimed defect under this warranty shall be made by Americana in its sole discretion.

### Submit Claims To:

Americana Outdoors, Inc Warranty Claim, P.O. Box 1290, Salem, IL, 62881

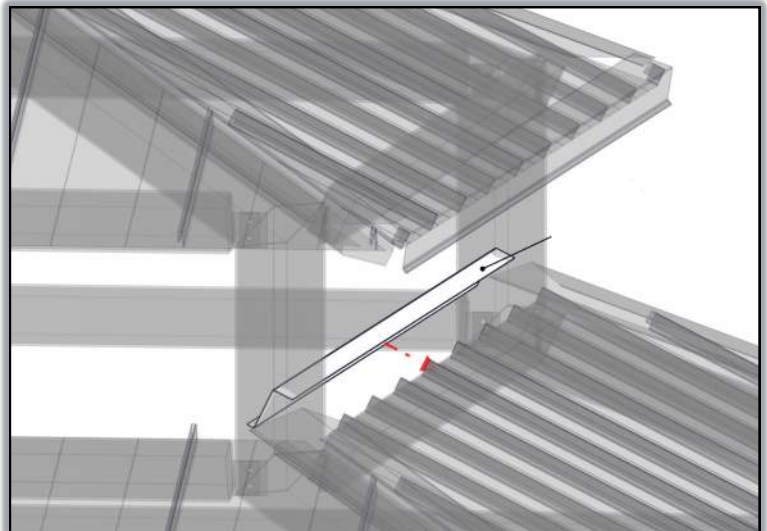
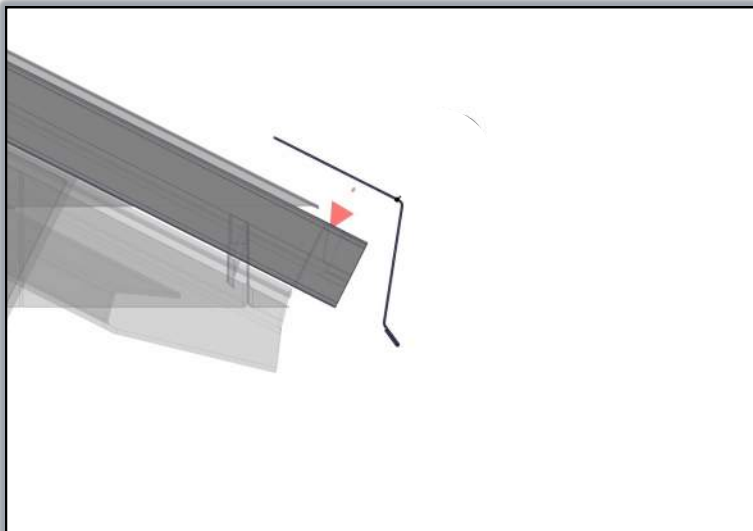
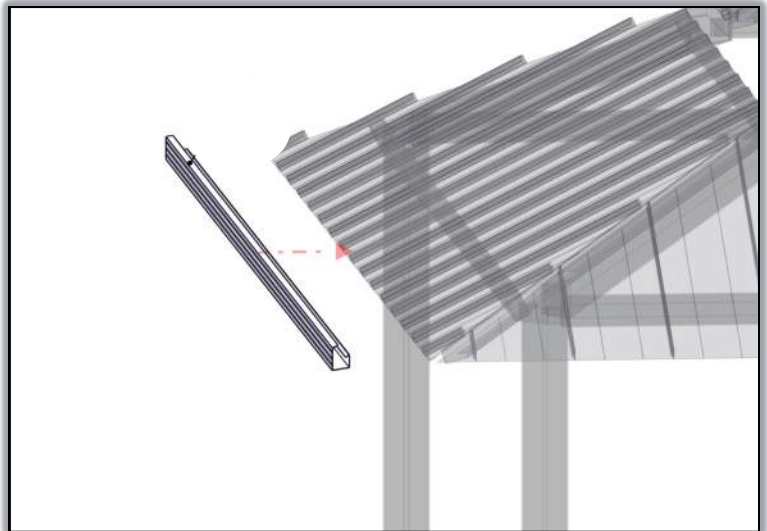
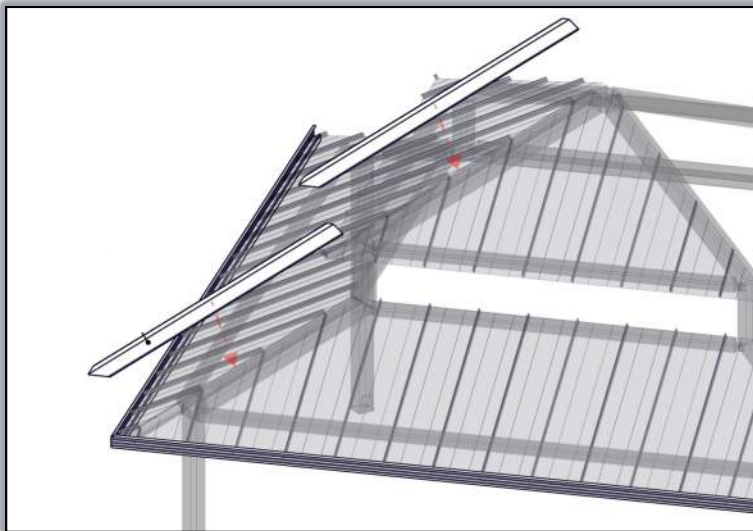
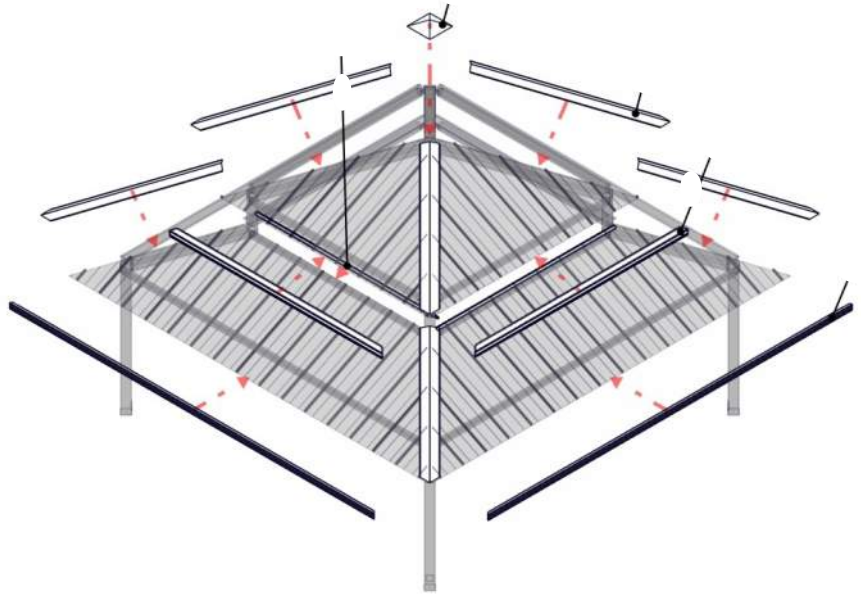
*Effective Date: March 19, 2012*

**Double Tier**

Position gutter over the bottom end of roof panels. The inside of gutter should be as close as possible to the angle-cut end of ridge support.

With gutter held in position, attach the bottom lip to roof panels at an even spacing on centers using #8 x 1/2" screws.

Repeat to install all gutters.



## SECTION 10 70 00 – PROTECTIVE COVERS

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. Work in this section includes furnishing and installation of Navajo shelter as manufactured by Americana Outdoors and as indicated on drawings.
- B. Navajo model shelter is four-sided with prefabricated structure, pre-cut roof panels, and hip roof.

#### 1.2 RELATED ITEMS AND CONSIDERATIONS

- A. Concrete for shelter footings.
  - 1. Standard models are surface mounted with anchor bolts supplied by installer.
  - 2. Top of footings shall be sloped to allow water drainage away from post.

#### 1.3 SUBMITTALS

- A. Furnish shop drawings and confirm dimensions prior to fabrication.
- B. Complete shop drawings available showing structural component locations and positions, material dimensions, and details of construction and assembly.
- C. Structural engineer sealed drawings and calculations available if required.

#### 1.4 QUALITY ASSURANCE

- A. Shelter must conform to applicable national and local building codes.
- B. Manufacturer Qualifications: Minimum 60 years experience in the manufacturing of protective covers of the type specified.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store all shelter components in protected areas until time of installation.

#### 1.6 WARRANTY

- A. Shelter must include a twenty-five (25) year limited warranty on steel against material failure. Ten (10) year warranty against peeling, cracking, blistering, or crazing of the surface finish of aluminum and steel components. One (1) year warranty against defects in material and workmanship.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURER

- A. Americana Outdoors, #2 Industrial Drive, P.O. Box 1290, Salem, IL 62881;  
1-800-851-0865

## 2.2 MATERIALS

### A. Roof

1. W Panel conforming to 24" width from center of locks, 2 ½" deep, and ribs 8" on center. Panels shall have a snap lock to form a watertight connection. Available in aluminum alloy 3004-H34, conforming to ASTM B209, with a baked enamel finish. Available in Galvalume® steel, conforming to ASTM A792 Grade 50, with a baked enamel finish that meets "Energy Star specification for cool roofs" reflective coating to reflect heat away from the shelter. Standard colors available per manufacturer's color chart.

### B. Fascia

1. Gutter fascia and fascia trim extruded from aluminum alloy 6105-T6.
2. Ridge cap extruded from aluminum alloy 6105-T5.

### C. Structure

1. Extruded aluminum tubing is used throughout the shelter and shall be fabricated from aluminum alloy 6063-T6 or 6061-T6. Size to be determined by engineering calculations.
2. Steel plate is used throughout the shelter and shall conform to ASTM A36. Thickness and size to be determined by engineering calculations.

## 2.3 ACCESSORIES

### A. Fasteners

1. High strength bolts conform to ASTM A325. Bolts shall be hot dip galvanized. Sizes vary from ½" to ¾" diameter, to be determined by engineering calculations.
2. #12-24 and #8-18 hex washer head, self-drilling screws shall be stainless steel or coated with zinc.

## 2.4 FABRICATION

- A. Welding shall conform to the American Welding Society's specification for the material being welded. Welding electrodes shall be E70XX. Welders shall be AWS D1.1 certified with welding inspector on staff.
- B. All structural steel components shall be shop fabricated so that field assembly of components can be performed using only bolting and screw placement.

## 2.5 FINISHES

- A. All aluminum components are coated with anti-graffiti polyester triglycidyl isocyanurate (TGIC) powder and baked/cured at 400° F. This finish meets AAMA 2604-2 specification.
- B. All steel components are blasted to near-white condition and cleaned with a 3-stage process. Components are sprayed with an alkaline cleaner/phosphatizer, rinsed with ambient water, and a final rinse with a chemical sealer. Components are then coated with anti-graffiti polyester triglycidyl isocyanurate (TGIC) powder and baked/cured at 400° F. This finish meets AAMA 2604-2 specification.

**PART 3 EXECUTION****3.1 EXAMINATION**

- A. Examine substrates upon which shelter will be installed with installer present for compliance with requirements for conditions affecting performance or work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Installer shall confirm dimensions and elevations to be as shown on drawings provided by Americana Outdoors.
- D. Installation shall be performed by an experienced installer and scheduled after all concrete and masonry in the area are completed.

**3.2 INSTALLATION**

- A. Installation shall be in strict accordance with manufacturer's shop drawings. General installation guidelines are supplied with each shelter.
- B. Particular attention should be given to protecting the finish during handling and installation.
- C. After installation, entire system should be left in a clean condition.

**END OF SECTION**