The following instructions and specifications shall be observed by all bidders:

PROPOSAL COMPLIANCE  Bids shall be submitted in writing no later than Thursday, August 10th at 2:00 p.m. Bids may be hand delivered or mailed to Bethany Board of Education Office, 40 Peck Road, Bethany, CT 06524. Incomplete forms may be cause for disqualification of the bid. Bids must be signed by the authorized representative/officer/agent of the bidder. The Board of Education or its designee shall be the sole judge as to whether any bid complies with these specifications, and such a decision shall be final and conclusive. Bidders shall state any exceptions taken to the bid specifications.

BID RETURN ENVELOPE  All bids shall be submitted in sealed, opaque envelopes clearly labeled with the name of the bidder, address, and the words "BCS PLAYGROUND PROJECT." Please clearly mark your envelope with the bid title and opening date to prevent opening of a sealed bid prior to the opening date. Proposals submitted in unmarked envelopes which are opened by the Board in its normal course of business will be rejected. The Board will not be held responsible for those bids lost in the mail.

BID PROPOSAL/PRICE  Each bid must be submitted in writing and bid prices must be in ink, word processed, or typewritten in both words and figures. Bid prices shall include all design, labor, materials and equipment necessary to complete the work in accordance with contract documents or these specifications and instructions. All prices must be NET, F.O.B. to the Bethany Board of Education, 40 Peck Road, Bethany, Connecticut, unless otherwise indicated. In the event that there is a discrepancy between the price written in words and the numerals, the price written in words shall govern. Negligence on the part of the bidder in preparing a bid confers no right of withdrawal or modification of a bid after such bid has been opened. The Bethany Board of Education is exempt from the Connecticut sales tax, Federal excise taxes, and the provisions of the Federal Robinson-Patman Act.

WITHDRAWAL OF BIDS  Bids may be withdrawn in writing received by the Board of Education prior to the time fixed for opening. Once bids are opened the bids shall be valid and may not be withdrawn for ninety (90) days after the bid opening.

RIGHT OF REJECTION  The Board of Education or its designee may reject or accept any and all bids in whole or in part or may waive any informality in bids received if, in its opinion, it is in the best interest of the Town to do so, for whatever reason.

METHOD OF AWARD – FACTORS  In awarding the contract, the following factors shall be taken into consideration:

A.  bidders qualifications and experience with projects of the same type, size and complexity as the project;

B.  bid price for the project; and

C.  the information provided by the bidder as part of its submission evidencing the bidder’s ability to perform the work in a quality and timely manner for the bid price.

The contract for the project will be awarded to the bidder that is determined by the Board of Education to be qualified to perform the work and submitting the lowest bid which meets all of the specifications and requirements of this Request for Proposal and which bid is acceptable to the Board of Education.

FAMILIARITY WITH LAWS, SITE CONDITIONS AND DOCUMENTS  Each bidder is required to be familiar and comply with the terms and conditions of the specifications and all other contract documents and with all federal, state, and local laws, ordinances or regulations which in any manner relate to the furnishing of the equipment, material or services in accordance with the contract. The submission of a bid shall be construed as an assurance that the bidder has examined all the conditions of the bid documents and
specifications, and the failure of the bidder to familiarize himself with conditions related to the specifications shall in no way relieve any bidder from any obligation in respect to this bid.

QUALIFICATIONS OF BIDDER The Board may make such investigation as it deems necessary to determine the ability of the bidder to perform the work. The bidder shall furnish to the Board all such information for this purpose as the Board may request. The Board reserves the right to reject any bid if the evidence submitted by or discovered by investigation of a bidder fails to satisfy the Board that such bidder is qualified to carry out the obligations of the contract and to the work contemplated therein.

ERRORS, INTERPRETATIONS, AND ADDENDA Should the bidder find any omissions, discrepancies or errors in the specifications or other contract documents or should the bidder be in doubt as to the meaning of the specifications or other contract documents, the bidder should immediately notify the Superintendent of Schools, who may correct, amend or clarify such documents by a written interpretation of addendum. No oral interpretation shall be made to any bidder and no oral statement of the Board or any agent or representative of the Board shall be effective to modify any of the provisions of the contract documents. The Bethany Board of Education shall have the right to request clarifications of bid submitted and hold public hearings for the consideration of the merits of any or all bidders.

SUBSTITUTION FOR NAMED BRANDS OR SUBCONTRACTING Should brand name items appear in these specifications, before bidding on any item considered equal to or better than a named item, the bidder shall get written approval from the Superintendent of Schools for the substitution. The bidder shall not subcontract the work under this project without the written approval of the Superintendent of Schools.

EQUAL OPPORTUNITY-AFFIRMATIVE ACTION Each bidder with ten (10) or more employees shall complete the Certificate of Bidder which is included as part of these specifications. Bidders with less than ten (10) employees should include as part of the Certification and return it with their bid. A signature on the form certifies that the bidder does not discriminate on the basis of race, color, sex, national origin, age or disability.

CONTRACT TERMS The contract for the project shall include, without limitation, the following terms and conditions:

A. GUARANTEE All vehicles, equipment and materials including all parts and assemblies, if applicable, shall be guaranteed by the contractor against defects in material and workmanship and shall be in accordance with specifications and adequate for its intended use. Where it is required for the contractor to repair, replace or to modify, alter, add or remove hardware, parts, components or related accessories for the purpose of insuring proper appearance, performance or operation, the same shall be done as required by the contractor until such time as acceptable performance, operation or appearance has been established. Problems that may occur shall be corrected consistent with this guarantee. The contractor shall attend to and remedy such items in a reasonable and timely manner. Appropriate logs, schedules, and reports shall be maintained by the contractor to document these items and the action taken. Warranty information, catalogues of parts, and/or instructions of use not provided at the time of contracting shall be provided no later than the substantial completion of the work. All warranties shall be assignable by the Bethany Board of Education or agent thereof. These warranties shall be in addition to any remedies provided by applicable law. The contractor warrants that all goods, labor, materials and services furnished hereunder shall be constructed and performed in a good and workmanlike manner and in compliance with the Williams-Steiger Occupational Safety and Health Act of 1970, as amended from time to time, and the rules, regulations and standards issued thereunder by any applicable governmental authority which as of the date of performance will apply to the goods and services furnished hereunder.
B. **HAZARDOUS WASTE**  In the event that the work of the project involves the handling of hazardous waste and associated insurance coverages are not identified elsewhere in the contract documents, the contractor’s insurance policy must provide Environmental Impairment Liability. The contractor warrants that it understands the currently known and suspected hazards to persons, property, and the environment by the transport, treatment, and disposal of hazardous waste. The contractor warrants that it will perform all services hereunder in a safe, efficient and lawful manner using industry accepted practices and in full compliance with all applicable Connecticut and federal laws and regulations.

C. **INDEMNIFICATION**  The contractor shall at all times indemnify, defend and hold harmless the Bethany Board of Education and the Town of Bethany and their respective officers, agents and employees on account of and from any and all claims, damages, losses, judgments, workers' compensation payments, litigation expenses and legal counsel fees arising out of injuries to persons (including death) or damage to property alleged to have been sustained by (a) officers, agents and employees of the Bethany Board of Education or the Town of Bethany or (b) the contractor, its subcontractors or material men or (c) any other person, which injuries are alleged to have occurred on or near the work or to have been caused in whole or in part by the acts, omissions or neglect of the contractor, subcontractor or material men or by reasons of its or their use of faulty, defective or unsuitable materials, tools, or equipment of defective design in constructing or performing under the work of the project. The existence of insurance shall in no way limit the scope of this indemnification. The contractor shall reimburse the Bethany Board of Education for damage to property of the Bethany Board of Education caused by the contractor, or its employees, agents, subcontractors or material men or by the faulty, defective or unsuitable material or equipment used by any of them. Contractor shall indemnify, defend and hold the Bethany Board of Education and the Town of Bethany harmless for all claims growing out of the lawful demands of subcontractors, laborers, suppliers and assignees. Contractor shall assume and pay for the defense of all such claims, demands, suits, proceedings and litigation. The provisions of this paragraph shall survive the expiration or early termination of this contract. If, for any reason an employee of the contractor is deemed unacceptable by the Bethany Board of Education or any of its agents, the contractor shall immediately replace said personnel with a substitute acceptable to the Bethany Board of Education. The contractor shall provide at contractor's own expense all equipment, labor, materials, supplies and tools to perform all work required under this contract and in the contract documents.

Any and all Federal, State and Local permits and Licenses which may be required are the sole responsibility of the contractor whether they are known or not at the time of the execution of this contract. It is the responsibility of the contractor to ensure that all items and services are conforming to all Federal, State and Local building codes as well as conforming to OSHA and EPA Standards.

D. **RIGHT TO TERMINATE CONTRACT**  In the event that any of the provisions of this contract are violated by the contractor or any subcontractors, the Bethany Board of Education may serve written notice upon the contractor of its intention to terminate this contract and the contract shall cease and terminate within five (5) days after delivery of such notice, unless within such five (5) day period, contractor shall cure such violation and mutually acceptable arrangements for correction are made. The Bethany Board of Education reserves the right to cancel outstanding orders under this contract after reasonable time for delivery of the work for the project has passed. In addition, in the event of any such cancellation, the Bethany Board of Education shall have to engage a replacement contractor to complete the work, as determined by the Bethany Board of Education, if it deems it in the best interest of the Bethany Board of Education. Notwithstanding the foregoing, the Board shall not be held to a basis of the lowest prices for which the completion of the work or supplying of equipment or any part thereof might have been accomplished, but it
shall charge the defaulting contractor for all sums actually paid or expenses actually incurred in
effecting prompt performance hereunder. In the event the Bethany Board of Education incurs any
loss, cost or expense on account of such termination or cancellation (including, without limitation,
additional cost to complete the work of the project, the contractor shall be liable to the Bethany
Board of Education for all such additional loss, cost, or expense).

E. **COMMENCEMENT OF WORK**  Delivery of items or commencement of the work of the project
shall be within thirty (30) days of purchase order issuance or on the date specified in the schedule
for the project.

F. **RISK OF LOSS**  Contractor shall bear the risk of loss, injury, or destruction of goods, equipment
and materials for the work of the project until acceptance of the entirety of the work by the Board
of Education. Such loss, injury or destruction shall not release the contractor from any obligation
under the contract. Delivery shall be F.O.B.

G. **PAYMENT**  Invoices shall be furnished to the Bethany Superintendent of Schools or designee for
verification and approval of the amount due the contractor. Final payment shall not be made until
final acceptance by the Bethany Board of Education or its designee of all elements of the work of
the project as finally complete. Payment shall be made within thirty (30) days after approval of the
invoice and acceptance of the work which is the subject of the invoice by the Board of Education.
If the contractor is in default hereunder and/or the Bethany Board of Education is of the opinion
that a meritorious claim exists or will exist against the contractor by the Town arising out of the
negligence of the contractor, then the Board may withhold payment of any amount otherwise due
and payable hereunder. Any amount so withheld may be retained by the Board for such period as
it may deem advisable to protect the Board against any loss and may, after written notice to the
contractor, be applied in satisfaction of any claim herein described. This provision is intended
solely for the benefit of the Board and no person shall have any right against the Board or claim
against the Board by reason of the Board's failure or refusal to withhold monies. This provision is
not intended to limit or in any way prejudice any other right of the Board and no interest shall be
payable by the Board on any amounts withheld under this provision. The Board may also terminate
the contract for its convenience upon seven (7) days prior notice. If the Board terminates this
contract for convenience, the contractor shall be paid for all work properly executed in accordance
with the contract documents.

H. **APPLICABLE LAW**  This agreement shall be construed in accordance with the laws of the State
of Connecticut and any action of law in connection herewith shall be brought in Connecticut State
Courts.

I. **REQUIRED PROVISIONS**  Each and every provision and clause required by the law to be
inserted in this contract shall be deemed to be inserted herein and the contract shall be read and
enforced as though such provisions and clauses were included herein.

J. **CONTRACTOR USE OF PREMISES**  Contractors or any of its employees will not be allowed
into the premises when school is in session or when children are present on premises without the
permission of the Bethany Board of Education or any of its principal agents. Safe passage must be
provided by contractor for all who use this facility.

K. **CONFLICTING PROVISIONS**  If any of the provisions hereunder conflict with the provisions
of any specifications attached hereto or issued in connection herewith, the contractual provisions
of these instructions shall control. Notwithstanding the foregoing, the Bethany Board of Education
reserves the right to issue written clarification regarding resolution of any conflicting provisions in
which event such written clarification shall control.
INSURANCE REQUIREMENTS

The bidder shall carry at its expense and provide evidence of insurance coverage to protect itself and the Bethany Board of Education from and against liability, loss, damage, expense, cost (including without limitation to litigation and court costs and attorneys' fees) out of or in connection with the performance of any work performed in accordance with the specifications or any related documents, whether such work is performed by the bidder or any subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Coverage must be written with insurance companies licensed in the State of Connecticut and approved by the Bethany Board of Education. The insurance company writing coverage must have at least an A-rating by Best & Company. All policies shall provide a thirty (30) day advance notice cancellation to the Bethany Board of Education.

A. Workers Compensation:

Coverage A: Statutory

Coverage B: Employers Liability $100,000 per person
Bodily injury by accident $100,000 per person
Bodily injury by disease $500,000 aggregate

All states and voluntary compensation endorsements

B. Commercial General Liability

Limits of Liability: $1,000,000 each occurrence
$2,000,000 general aggregate
$2,000,000 products/completed Operations aggregate

C. Auto Liability

Limits of Liability: $1,000,000 each accident

D. Excess (Umbrella) Liability:

The requirement that an Umbrella Policy be provided will depend on a case-by-case evaluation. Your exposure to catastrophic loss arising from the work or service being performed will determine the limit required.

Note: Special policy endorsement or additional coverages may also be required based on the special nature of the work of service being required (Professional Liability, E&O, D&O, Sexual Abuse and Molestation coverage and Bonds).

Coverage: Bethany Board of Education to be named as additional insured.

Certificates of insurance shall be presented to the Superintendent or designee for approval before the successful bidder, its agents and/or employees commence any work whatsoever pursuant to the contract.
PROJECT DESCRIPTION

The purpose of this project is to develop a universally accessible playground at Bethany Community School. The playground is a new build and the design will be ‘barrier free’ and feature areas of play offering unique play features and rehabilitation equipment for both abled and disabled children between the ages of three (3) and six (6).

Basic principles include, but are not limited to:

1. Equitable Use: The design is useful and marketable to children with diverse abilities.
2. Flexibility in Use: The design accommodates a wide range of individual preferences and abilities.
3. Simple and Intuitive Use: Use of the design is easy to understand, regardless of the user’s experience, knowledge, language skills, or current concentration level.
4. Perceptible Information: The design communicates necessary information effectively to the user, regardless of ambient conditions or the user’s sensory abilities.
5. Tolerance for Error: The design minimizes hazards and the adverse consequences of accidental or unintended actions.
6. Low Physical Effort: The design can be used efficiently and comfortably with a minimum of fatigue.
7. Size and Space for Approach and Use: Appropriate size and space is provided for approach, reach, manipulation, and use regardless of user’s body size, posture, or mobility.

The site is approximately 5,100 square feet.

SCOPE OF WORK

Applicant will be responsible for, but not limited to:

1. Provide the design/layout and graphics for the new playground equipment/components and show at least one (1) two-dimensional view of the playground layout (additional schematics are welcome but not required).
2. Provide specifications to show color options, dimensions and weights of the various play components. Final design and components is subject to the approval of the Bethany Community School Playground Committee.
3. Furnish and install all approved playground equipment, including all foundations, with age appropriate features that serve handicap access to children ages three (3) through six (6).
4. Remove and dispose of any existing site material in order to accommodate new materials required by equipment manufacturer.
5. Furnish and install poured-in place rubber surface, mulch or engineered wood fiber within the playground structure area per equipment manufacturer requirements for height of falls.
6. Playground equipment and surface materials freight charges.
7. All necessary hardware, posts, clamps and all other required hardware for erection will be included.
8. All equipment will be delivered to Bethany Community School, 44 Peck Road, Bethany, CT, 06524.
9. The approved playground design, equipment and materials shall meet the General Specifications listed in
APPENDIX I.

TIMELINE

- RFP issued Sunday, July 30, 2017

- Optional Site Visit on Thursday, August 3, 2017 at 10:30 a.m. at Bethany Community School Main Entrance, 44 Peck Road, Bethany, CT

- Bid Submission by Thursday, August 10, 2017 at 12:00 p.m.

- Bid Opening on Thursday, August 10, 2017 at 12:05 p.m. at Bethany Board of Education Office, 40 Peck Road, Bethany, CT

- Project start date on Friday, August 11, 2017

- Project completion date on or before October 15, 2017
GENERAL CONDITIONS AND BID SPECIFICATIONS REFERENCE LISTING

Please provide a minimum of three (3) municipal references including community, contact person and telephone number.
GENERAL SPECIFICATIONS

GENERAL

SUMMARY
Includes freestanding playground equipment and all required support members, hardware, posts, clamps and connectors. Wooden structures will not be accepted.

DEFINITIONS
1. Fall Height: Defined by ASTM F 1487 as the "vertical distance between a designated play surface and the protective surfacing beneath it."
2. Use Zone: Defined by ASTM F 1487 as the "area beneath and immediately adjacent to a play structure or equipment that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

QUALITY ASSURANCE
1. Manufacturer Qualifications:
   a. Firm whose playground equipment components have been certified by IPEMA's third-party product certification service.
   b. Provide playground equipment and play structure components bearing the IPEMA Certification Seal.
   c. ISO 9001 and ISO 14001 certified.
   d. Cradle to Cradle certified.
2. Installer Qualifications: Engage an experienced installer who is approved by manufacturer for both installation and service of the type of equipment required for this project.
   a. All crew leaders shall be Certified Playground Safety Inspectors.
3. Safety Standards: Provide playground equipment complying with or exceeding requirements in ASTM F 1487 and CPSC No. 325.
4. Pre-installation Conference: Conduct conference at project site.

SUBMITIALS
1. Submit the following in accordance with Section 01 33 00:
   a. Product Data: For each type of playground equipment indicated, including installation instructions, maintenance guidelines and inspection checklists.
   b. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
   c. Coordination Drawings: Plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
      i. Extent of surface systems and use zones for equipment.
      ii. Critical heights for playground surfaces and fall heights for equipment.
   d. Samples for Color Selection: For each type of playground equipment indicated.
      i. Manufacturer's color charts.
      ii. Include similar samples of playground equipment and accessories involving color selection.
e. Product Certificates: For each type of playground equipment, from manufacturer.
   i. Material Certificates: For shop finishes.
f. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of playground equipment.
g. Field quality-control reports.
h. Qualification Data: For qualified installer and manufacturer.
i. Maintenance Data: For playground equipment and finishes to include in maintenance manuals.
j. Maintenance Kit: At completion of installation, submit maintenance kit that will include all installation and maintenance information for the playground equipment installed.
k. Warranty: Three (3) signed copies of special warranty.
l. LEED Submittals:
   i. Credit MR 4: For products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.

**WARRANTY**
1. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground equipment that fails in materials or workmanship within specified warranty period, including shipping of replacement components to the project site.

2. Failures include, but are not limited to, the following:
   a. Structural failures.
   b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

3. Warranty Period from date of Substantial Completion:
   a. Posts, clamps and hardware: Lifetime.
   b. Decks, stairs and plastic components: Fifteen (15) years.
   c. Metal Components: Ten (10) years.

**PRODUCTS**

**MATERIALS**
1. LEED Requirements: Provide at least twenty-five percent (25%) recycled steel content.

2. Steel Tubing: ASTM A 500, Grade B or ASTM A 513, cold rolled, electric resistance welded tubing, triple coated with hot-dipped zinc galvanized coating, chromate conversion coating and clear polymeric coating.
   a. Tensile Strength: Minimum 55,000 psi.
   b. Yield Strength: Minimum 50,000 psi.
   c. Modulus of Elasticity: 25 x 10^6 psi.
   e. Elongation: 25 percent in 2 inches.
   f. Exterior Coating: Galvanized coating weight shall be within the range of 0.4 oz./sq. ft. and 0.6 oz./sq. ft.
g. Interior Coating: Corrosion resistant, zinc-rich organic coating.

h. Finish: Superdurable Polyester Powder Coat.

3. Aluminum Tubing: STM B 221, 6005-T5 extruded seamless aluminum alloy tubing, 1/8 inch wall thickness, coated with Superdurable baked-on polyester powder coating.
   a. Tensile Strength: 38,000 psi.
   b. Yield Strength: 35,000 psi.
   c. Modulus of Elasticity: 10 x 106 psi.
   d. Elongation: Ten percent (10%) in 2 inches.

4. Decks: Deck surface and sides shall be of modular design and die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel conforming to ASTM A 569. Deck surface shall have perforated holes. Decks shall have slots along each face to accommodate face mounting of components.
   a. The flange formed decks shall also incorporate the use of under deck support struts to insure structural integrity.
   b. Entire deck weldment shall have a protective coating of Eco-Armor polyethylene.

5. Rotational Molded Polyethylene: Fabricated from color-compounded, linear low density, polyethylene with anti-static additives and machined to size.
   a. Cross-Section: 1/4 inch (6 mm) nominal thickness, double wall construction.
   b. Ultraviolet (UV) stabilized: UV-6.
   c. UV Exposure: SAE 1960-89, QUV 500 hours, Delta E less than 2.
   d. Melt Index: ASTM D 1238, 5.0-6.89/10 min 3.
   e. Material Density: ASTM D 1505: Between 932 glee and 936 glee.
   f. Tensile Strength: ASTM D 638: Between 2,200 psi and 2,500 psi at yield.
   g. Flexural Modulus: ASTM 0 790: Between 73,000 psi and 87,200 psi at 1 percent secant.
   h. Horizontal Burn Test: UL 94 HB.
   i. Arm Test for Impact Strength: 100 ft./lb. at minus 40 degrees C and 1/4-inch thickness.
   j. Colors: As selected by Committee from manufacturer's standard colors.

6. Compression Molded Polyethylene: Fabricated from colored marine grade, 0.75-inch-high density polyethylene and machined to size.
   a. Ultraviolet (UV) stabilized.
   d. Colors: As selected by Committee from manufacturer's standard colors.

7. Fasteners: 18-8 grade stainless steel (300 series), unless otherwise indicated, with capped lock nuts to cover bolls. Tamper-resistant on principle clamping mechanisms.
   a. Nylon thread-locking patch and liquid thread-lock applied to certain hardware as directed by manufacturer.

   a. Ultimate Tensile Strength: Between 18 ksi and 35 ksi.
b. Yield Strength: Between 13 ksi and 23 ksi.
c. Finish: 420 micro finish and a Superdurable Polyester Powder coat.
d. Drive Rivets: Fabricated of 2117 aluminum alloy with pin fabricated of 7075 aluminum alloy.
e. Plastic post caps and plastic rivets are not permitted.
f. Factory fastened to the end of the tubing with drive rivets.
9. Clamps: ASTM B 85, high strength A413.0 aluminum alloy. Ultimate tensile strength shall be 43 ksi.
10. Hinged assemblies. Bolt through connection of decks to posts is not acceptable.
   a. Finish: Shot blast cleaned, primed with a cathodic epoxy coating conforming to MIL-P-53084, and Superdurable baked-on polyester powder coating.
11. Tools: Provide special tools with equipment for assembly and maintenance.
12. Mobile Device Access Point: All playground equipment to have a PlayPod mobile device access point attached in a highly visible location. Access point to be made of a cast aluminum casing covered by a fiberglass reinforced plastic panel. Access point to have an electronic tag that permits users of smart phones to access playground equipment’s maintenance documents, part numbers, customer service direct links, and phone numbers. Members of the community shall be able to view weekly play tips, can email accessible documents, and email or call the manufacturer.

FABRICATION
1. Assembled Steel Components:
   a. All edges on flat plates shall be rounded by a 360 degree tumbling process.
   b. Weld areas and flat plates shall be coated with a specially formulated epoxy/polyester primer to encapsulate the weld area.
2. Fastening System:
   a. Fastening system shall utilize clamps. Bolt through connection is not acceptable.
   b. Permanently attach clamps to the support post with a drive rivet to eliminate disassembly and slippage.

PLAYGROUND EQUIPMENT AND STRUCTURES
1. Composite Structure: Assembled from manufacturer’s standard modular-sized units.
2. Manufacturers: Subject to compliance with requirements, provide products as approved by the BCS Playground Committee.
3. Frame: Galvanized-steel pipe or tubing frame sections connected with 360-degree compression clamps.
   a. Main Frame Posts: Not less than 3.5 inch OD.
   b. Color: As indicated by manufacturer’s and approved by the Committee.
4. Platforms Color: As indicated by manufacturer's and approved by the Committee.
5. Arrangement: As approved by the Committee.
7. Age Appropriateness: 3 to 6 years of age.

CAST-IN-PLACE CONCRETE
Concrete Materials and Properties: Comply with requirements in Section 03 30 00, Cast-in-Place Concrete, to
produce normal-weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi, 3-inch slump, and 1-inch maximum size aggregate.

FINISHES
1. Powder Coat Finish: Superdurable Polyester Powder Coat, electrostatically applied at a thickness of 2 to 5 mils (0.002 inch to 0.005 inch)
   a. Galvanized tubing to have factory-applied clear acrylic polymer coating.
   b. All components shall be free of excess weld and weld spalls.
   c. After fabrication all weld joints are to thoroughly cleaned using a chipping hammer and wire brush to remove all weld slag from weld joints.
   d. Preparation: Components shall be cleaned with a three-stage alkaline bath and a sealer for adhesion and rust inhibitor.
   e. Components shall be thoroughly dried before being coated with Superdurable TGIC polyester powder and cured at temperatures between 375 degrees F and 400 degrees F.
   g. Impact Resistance Test: ASTM D 2794, min. 80 inch/lb.
   h. UV Exposure (G154, 340): 3000 hours, Delta E of 2. 90 percent gloss retention.
   i. Pencil Hardness Test: ASTM D 3363: 2H.
   j. Crosshatch Adhesion Test: ASTM D 3359-B: 100 percent pass.
   l. Gloss at 60 degrees: ASTM D 523.
2. Coated Parts: Coated parts shall be coated with Eco-Armor Polyethylene, 45 to 55 mils on the wear surfaces of all coated parts and 30 mils on other surfaces. Skid resistant, textured, impact resistant and UV stable.
   a. Prior to coating, thoroughly clean.
   b. Coating contains no volatile organic compounds (VOC's), polyvinylchloride (PVC) and phthalates.
   c. Property, Testing Method and Results: Flexibility (conical mandrel). ASTM D 522, 1/8 inch, no cracks (greater than 32 percent).
   d. Adhesion: ASTM D 4541, 800 psi.
   e. Impact Resistance: ASTM D 2794, greater than 320 inch-lbs.
   f. Gloss: ASTM 0 523, 12.
   g. Taber Abrasion: ASTM D 4060, 26 (mg loss, CS 17 wheel).
   h. Tensile Strength: ASTM D 638, 3482 psi.
   i. Elongation (percent): ASTM D 638.13 percent.
   j. Humidity Resistance: ASTM 0 2247, no blistering or loss of gloss after 1000 hours.
   k. Salt Spray: ASTM B 117, no significant change in color or gloss after 2000 hrs.
   l. UV Exposure: ASTM G 53, QUV 2000 hours, no significant change in color or gloss.

EXECUTION
EXAMINATION
1. Examine areas and conditions for compliance with requirements for site clearing, earthwork, site surface
   and subgrade drainage, and other conditions affecting performance of the Work.
   a. Do not begin installation before final grading required for placing protective surfacing is completed
      unless otherwise permitted by Committee.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION
1. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment
   locations comply with requirements for each type and component of equipment.

INSTALLATION, GENERAL
1. General: Comply with manufacturer's written installation instructions unless more stringent requirements
   are indicated. Anchor playground equipment securely, positioned at locations and elevations indicated.
   a. Maximum Equipment Height: Coordinate installed heights of equipment and components with
      finished elevations of protective surfacing. Set equipment so fall heights and elevation requirements
      for age group use and accessibility are within required limits. Verify that playground equipment
      elevations comply with requirements for each type and component of equipment.
2. Post and Footing Excavation: Excavate holes for posts and footings as indicated in firm, undisturbed or
   compacted subgrade soil.
3. Post Set with Concrete Footing: Comply with Section 03 30 00, Cast-in-Place Concrete, for forming, and
   placing concrete.
   a. Place concrete around posts and vibrate or tamp for consolidation. Hold posts in position during
      placement and finishing operations until concrete is sufficiently cured.
   b. Embedded Items: Use setting drawings and manufacturer's written instructions to ensure correct
      installation of anchorages for equipment.

FIELD QUALITY CONTROL
1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components,
   assemblies, and equipment installations, including connections.
2. Inspections: For playground equipment and components at final completion and to certify compliance
   with ASTM F 1487 and CPSC No. 325.
   3. Prepare inspection reports.

MAINTENANCE
1. Maintenance kit, project specific shall include the following:
   a. Aerosol primer.
   b. Aerosol color touch-up paint.
   c. Graffiti remover.
   d. Sandpaper.
   e. Installation tools.
   f. Hardware.
   g. Installation documents.
h. Order-specific maintenance documentation with maintenance recommendation.
This Affidavit must be completed, notarized and attached to your Bid Proposal. Failure to do so will result in the rejection of your Bid. A separate Affidavit must be submitted by each principal of a Joint Venture.

Organization: **Bethany Board of Education**

Project Description: **BCS Playground Project**

I, _____________________________________________, acting on behalf of _____________________________________________ (Name of Party signing affidavit) (person, firm, organization)
of which I am _____________________________________________, submitting a bid proposal for the above project, (Title of person)
certify and affirm that the _____________________________________________ (person, firm, organization)
has neither directly or indirectly entered into any agreements, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with such bid. False Statements made herein may be the subject of criminal prosecution.

Name of Corporation or Firm _____________________________________________ Signature of Official _____________________________________________

Subscribed and sworn to me before, this _______ day of _________________, 20____.

___________________________________________ NOTARY PUBLIC

My Commission Expires ____________________________ (SEAL)

**CERTIFICATE OF CORPORATION**

I, _____________________________________________, certify that I am the _____________________________________________ of the Corporation named in the foregoing instrument: That I have been duly authorized to affix the seal of the Corporation to such papers as require the seal; that _____________________________________________, who signed said instrument on behalf of the Corporation was then _____________________________________________ of said Corporation; that said instrument was duly signed for and on behalf of said Corporation by authority of its governing body and is within the scope of its corporate powers.

(Corporate Seal) _____________________________________________ Signature of Person Certifying

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CERTIFICATION OF BIDDER
Concerning Equal Employment Opportunities and/or Affirmative Action Policy I/we, the bidder, certify that:

1. I/we complies with the equal opportunity clause as set forth in the Connecticut state law.
2. I/we do not maintain segregated facilities.
3. I/we have filed all required employer's information reports.
4. I/we list job openings with federal and state employment services.
5. I/we are in compliance with the American with Disabilities Act.
6. I/we (check one):
   - Have an affirmative action program
   - Employ ten or fewer people

Bidder Company Name: __________________________________________
Officials Name: ________________________________________________
Job Title: _____________________________________________________
Signature: _____________________________________________________
Date: _________________________________________________________
ATTACHMENT C

BID FORM BETHANY COMMUNITY SCHOOL PLAYGROUND PROJECT
The undersigned proposes to furnish all labor, materials, and equipment, and to perform all work required, in accordance with this specification.

Bid Opening Date & Time: Thursday, August 10, 2017 at 12:05 p.m.

Bid Opening Place: Bethany Board of Education Office, 40 Peck Road, Bethany, CT 06524

Price Numeric:

Price Written Out: (i.e. twenty dollars)

Please indicate if a prompt payment discount is offered: ☐ Yes ☐ No

If yes, please indicate amount of discount in number of days ________________________________.

We the undersigned certify that attached to this bid form are all the required documentation including, but not limited to: references, non-collusion affidavit, W-9 form, and the Affirmative Action Program Certification. Any exceptions to this bid specification must be listed or attached on a separate sheet.

Name of Authorized Representative: ___________________________________________________

Signature of Authorized Representative: ________________________________________________

Company Name: ___________________________________________________________________

Address: __________________________________________________________________________

Telephone: ___________________________ Fax: ________________________________

E-mail: ___________________________________________________________________________
ATTACHMENT D