

City of Mentor

BID SET

2024 Civic Center Recreation Waterslide Replacement Project

PREPARED FOR:

The City of Mentor
8500 Civic Center Boulevard
Mentor, Ohio 44060

PREPARED BY:

R. E. Warner & Associates, Inc
Char Ligo, Senior Project Manager
Jennifer Kalin, Market Director, Government and Commercial

Great Northern Corporate Center
25000 Country Club Blvd, Ste. 340
North Olmsted, OH 44070

OCTOBER 2024

CITY OF MENTOR OFFICIALS

ADMINISTRATION

Kenneth J. Filipiak, City Manager

David W. Malinowski, Finance Director

Joseph P. Szeman, Law Director

David A. Swiger, City Engineer

Matthew Schweikert, Director of Public Works

Kenneth Kaminski, Director of Parks, Recreation and Public Facilities

Kevin Malecek, Director of Economic Development and International Trade

Kathy Cantanzriti, Planning Director

Kenneth Gunsch, Chief of Police

Ron Zak, Acting Fire Chief

COUNCIL

Sean P. Blake, President

John A. Krueger, Vice President

Matthew E. Donovan

Janet A. Dowling

Mark Freeman

Ray Kirchner

Scott J. Marn,

Julie Schiavoni, Clerk

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THE CITY OF MENTOR
8500 CIVIC CENTER BOULEVARD
MENTOR, OH 44060

SPECIFICATIONS AND BID FORMS FOR:
***2024 CIVIC CENTER RECREATION WATERSLIDE REPLACEMENT
PROJECT***

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CITY OF MENTOR
PURCHASING OFFICE

DATE: FRIDAY, NOVEMBER 15, 2024

12:00 NOON

*ALL BIDS SUBMITTED MUST INCLUDE THE REQUIRED BID DEPOSIT AND
A PROPERLY EXECUTED BIDDERS ACCEPTANCE TO CONTRACT (BAC-1).*

*CONTRACT (BAC-1) AVAILABLE ONLY BY CONTACTING KYLE KASKY AT
KASKY@CITYOFMENTOR.COM OR (440)974-5774*

Sealed proposals will be received at the Purchasing Department, City of Mentor, 8500 Civic Center Boulevard, Mentor, Ohio until 12:00 NOON November 15, 2024 and will be opened and read immediately thereafter for the following project:

2024 CIVIC CENTER RECREATION WATERSLIDE REPLACEMENT PROJECT

BASE BID OPINION OF PROBABLE ESTIMATE- \$672,700.00

ALTERNATE OPINION OF PROBABLE ESTIMATE - \$206,000.00

Bids must be in accordance with specifications advertised on the City of Mentor website: www.cityofmentor.com/category/rfp or RFP's will be available for pick-up at the Purchasing Office.

BY ORDER OF

Kenneth J. Filipiak, City Manager

Publish: *News-Herald*

November 1, 2024

November 8, 2024

II.

INSTRUCTIONS TO BIDDERS

The Instructions to Bidders governs, except where amended by the Specifications.

The Bidder is responsible for reading and understanding all items herein:

1. Except as otherwise provided herein, the Instructions to Bidders, Proposal-Contract Form, and all specifications, drawings and other documents referred to herein shall be a part of the contract.

2. DEFINITIONS:

- A. The term "Bidder" or "Contractor" shall mean the corporation, partnership or individual proposing or under contract to furnish the material, labor, and/or equipment listed in the Specifications.
- B. The term "City" shall mean the City of Mentor, Ohio.
- C. "Calendar Day" shall mean every day shown on the calendar.
- D. "City Manager" shall mean the Mentor City Manager or his duly authorized representative.

3. PROPOSAL: To be entitled to consideration, a proposal must be made in accordance with the following instructions:

- A. Preparation: Each proposal shall be submitted on the forms furnished by the City. All signatures shall be clearly and legibly written in long hand. No oral, facsimile or telephonic proposal or modifications will be considered. Each proposal shall show the breakdown for each item as directed on the Proposal-Contract Form. All proposals shall be considered informal which contain items not specified in the Proposal-Contract Form.

Prices for material and equipment shall include transporting and delivery to any place designated on the City's purchase order, within the corporate limits of the City. In the event of a discrepancy between unit proposal prices and extension thereof, the unit proposal price shall govern.

- B. Names of Bidders: Each proposal shall give the full business address of the Bidder(s) and be signed by them with their usual signature. Proposals by partnerships shall furnish the full names of all partners and shall be signed with the partnership name by one of the members of the partnership or by an authorized representative, followed by the signature and title of the person signing.

Proposals by corporations must be signed with the legal name of the corporation, followed by the name of the state of incorporation and by the signature and title of the President, Secretary or other person authorized to bind it in the matter.

The name of each person signing shall also be typed or printed below the signature. A proposal by a person

who affixes to their signature the word "President," "Secretary," "Agent" or other title without disclosing their principal may be held to be the proposal of the individual signing.

When requested by the City, satisfactory evidence of the authority of the officer or agent signing on behalf of a corporation or partnership shall be furnished.

- C. Delivery: The proposal shall be sealed in an envelope, addressed to:

City of Mentor
c/o Purchasing Department
8500 Civic Center Boulevard
Mentor, Ohio 44060

and delivered to the office of the Purchasing Coordinator on the date set forth in the legal advertisement. The sealed envelope shall also bear the name of the Bidder, the general item(s) proposed, and the date the proposals are to be opened. Proposals will be received until the date and time specified in the legal advertisement. Proposals will be opened and read immediately thereafter, in 2nd Floor Conference Room, Mentor Municipal Center. Proposals received after the date and time specified will be returned unopened to the Bidder.

- D. Proposal to Include All Work: Each proposal shall include all equipment, material, supplies or services described in the Instructions to Bidders, Specifications, Proposal-Contract Form and all drawings.
- E. Withdrawal of Proposal: Permission will not be given to withdraw or modify any proposal after it has been deposited as provided above. Negligence on the part of a Bidder in preparing the proposal confers no right for the withdrawal of the proposal after it has been opened.
- F. Acceptance or Rejection of Proposal: The City reserves the right to accept any proposals within sixty (60) calendar days after the same are opened, as provided above. The City reserves the right to accept any proposals which, in its opinion, are deemed to be in the best interest of the City. The City reserves the right to reject any or all proposals.

In determining the award, each item may be considered separately, and separate contracts may be awarded on the various items, unless specified to the contrary in the Specifications.

- G. Proposal Bond or Check: Each proposal must be accompanied by a cashier's or certified check, an irrevocable letter of credit, or by a proposal bond, signed by a surety company authorized to do business in the State of Ohio, in the amount of five (5) percent of the pro-

posal and made payable to the City of Mentor, as a guarantee that the contract will be honored in the event it is awarded to the Bidder, and as a guarantee that the Bidder to whom the contract is awarded will sign all documents necessary to formalize the contract, if any.

H. Forfeiture of Check or Proposal Bond: If the Bidder to whom the contract is awarded shall fail to honor the contract, or fail to sign the documents necessary to formalize the contract, if any, the deposit accompanying the proposal shall thereupon be forfeited to the City for and as liquidated damages. The work may then be readvertised or awarded to the deemed second best Bidder as the City may determine.

I. Quantities: The quantities of the work shown on the Specifications and Proposal-Contract Form are estimated by the City and will be used as the basis for comparison of the proposals only. The City reserves the right to decrease or increase any quantities and to eliminate any item(s) on the plans or proposal.

J. Informal Proposals: Proposals may be rejected for the following reasons:

- 1) If the proposal is on a form other than that furnished by the City or if the form is altered or any part thereof detached.
- 2) If there are any unauthorized additions, conditional or alternate proposals, or other irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- 3) If the Bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award. This does not exclude a proposal limiting the maximum gross amount of awards acceptable to any one Bidder at any one proposal letting, provided that the City will make any selection of awards.
- 4) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum items.

4. A. Competency of Bidders: No proposal will be considered unless the Bidder submitting the same shall furnish evidence satisfactory to the City Manager that they have the necessary equipment, ability and financial resources to fulfill the conditions of the contract and Specifications. Previous experience and responsibility of the Bidders will be considered in awarding the contract. No contract will be awarded to any Bidder who is in arrears to the City upon debt or contract, or who is in default as surety or otherwise upon any obligation to the City.

B. Disqualification of Bidders: Any of the following reasons may be considered as being sufficient for the disqualification of a Bidder and the rejection of their proposal or proposals.

- 1) More than one proposal for the same work from an individual, firm or corporation under the same or different names.
- 2) Evidence of collusion among Bidders. Participants in such collusion will receive no recognition as Bidders for any further work of the City until any such participant shall have been reinstated as a qualified Bidder.
- 3) Proposal prices that obviously are unbalanced.

5. WRITTEN AND ORAL EXPLANATIONS: Should a Bidder find discrepancies in, or omissions from, the drawings or Specifications, or should they be in doubt as to their meaning, they shall at once notify the City, which may send written instructions to all Bidders. The City will not be responsible for any oral instructions.

6. ADDENDUM OR MODIFICATION: Any addendum or modification issued during the time of bidding shall be covered in the proposal and in awarding a contract, such addendum or modification will become part thereof. In the event any such addendum or modification is issued by the City within 72 hours of the time set for the closing of proposals, excluding Saturdays, Sundays and legal holidays, the time for submitting proposals shall be extended one (1) week, with no further advertising of proposals.

7. TAX EXEMPTIONS: The City is exempt from federal excise and transportation taxes and Ohio State sales tax. Prices quoted should not include either federal excise or Ohio State sales tax. Tax exemption certificates covering these taxes will be furnished upon request.

The transportation tax is not applicable on any purchase consigned to the City and no tax exemption certificate is required. If for any reason a contemplated purchase would not be tax exempt, this fact will be indicated in the Specifications, and such taxes may be included in the price or shown as a separate item in the proposal.

8. DISCRIMINATION: In hiring of employees for the performance of work under this contract or any subcontract, neither the Contractor, subcontractor, nor any person acting in their behalf shall by reason of race, creed, color, age, sex or handicap discriminate against any citizen of the State in the employment of any laborer or worker who is qualified and available to perform the work to which the employment relates.

Neither the Contractor, subcontractor, nor any person in their behalf shall in any manner discriminate against or intimidate any employee hired for the performance of work under this contract on account of race, creed, color, age, sex or handicap.

9. INSURANCE: If the Specifications indicate insurance is required, then the Contractor shall obtain and pay for the following types of insurance:

- (a) Commercial General Liability insurance with minimum limits of not less than \$1,000,000 combined single limit. Coverage is to include contractual liability, a per

project general aggregate limit, primary and non-contributory other insurance provision, waiver of subrogation in favor of the City and additional insured status for the City including ongoing operations and products and completed operations. If such coverage is written on a Claims Made or Claims Made and Reported basis, (i) such coverage will have a retroactive date that is equal to or that precedes the date of the contract and be maintained for a minimum period of not less than three (3) years after the termination or expiration of the contract, (ii) may be replaced with other Claims Made or Claims Made and Reported coverage with a retroactive date that is equal to or that precedes the date of the contract and maintained for a minimum period of not less than three (3) years after the termination or expiration of the contract or (iii) may be cancelled after the termination of or expiration of the contract only if it is replaced by an extended reporting period with a duration of not less than three (3) years.

- (b) Automobile Liability insurance providing coverage for all owned, non-owned and hired automobiles with minimum limits not less than \$1,000,000 combined single limit. Coverage shall include additional insured status for the City and a waiver of subrogation for the City.
- (c) Worker's Compensation which meets all statutory minimum requirements

All policies must be written with insurance companies acceptable to the City. All policies are to provide the City with thirty (30) days advanced written notice of cancellation or non-renewal with the exception of cancellation for non-payment of premium which shall be ten (10) days. Contractor shall supply certificates of insurance evidencing the required coverage and shall furnish renewal certificates thirty (30) days prior to the renewal date. Failure of the City to request certificates does not relieve the Contractor from the obligation to maintain the required insurance.

- 10. LIABILITY: The Bidder shall defend, indemnify, and save harmless the City and its officers and agents from all claims, demands, payments, suits, actions, recoveries and judgments of every description, whether or not well founded by law, brought or recovered against it, by reason of any act or omission of said Bidder(s), their agents, subcontractors or employees, in the execution of the contract, or for the use of any patented inventions by said Bidder. A sum sufficient to cover aforesaid claims, including attorneys' fees, may be retained by the City from monies due or to become due to the Bidder under contract, until such claims shall have been discharged.
- 11. ROYALTIES AND/OR LICENSE FEES: The Bidder shall pay all royalties and license fees. The Bidder herein agrees to assume and save the City, its officers and agents harmless from liability of any kind or nature whatsoever, arising out of the use by the City, its officers and agents of any item, appliance, apparatus or mechanism, material or service which may be furnished or installed by the Bidder under the terms of this contract, including patent or copyright infringement, and to defend the City from any and all such liabilities whether or not such claims are well founded by law.

- 12. ASSIGNMENT OF CONTRACT: The Bidder who is awarded a contract shall not assign, transfer, convey, sublet or otherwise dispose of said contract, or right, title or interest in or to the same, or any part thereof, without previous consent in writing from the City Manager, endorsed on or attached to the contract.
- 13. CANCELLATION: Should the material(s) supplied or delivered to the City under this contract fail at any time to meet the Specifications required by the contract, then in such event, the City may cancel this contract upon written notice to the Bidder.
- 14. CONTROL OF WORK: The City Manager, or his designated agent, will decide all questions which may arise as to the quality and acceptability of materials furnished and work performed and as to the rate of progress of the work; all questions which may arise as to the interpretation of the plans and Specifications; all questions as to the acceptable fulfillment of the contract on the part of the Contractor, and as to compensation.
- 15. CLAIMS FOR ADJUSTMENT AND DISPUTES: If, in any case, the Contractor deems that additional compensation is due for work or material not clearly covered in the contract or not ordered by the City Manager as extra work, as defined herein, the Contractor shall notify the City Manager in writing of their intention to make claim for such additional compensation before they begin the work on which the claim is based. If such notification is not given and the City Manager is not afforded proper facilities by the Contractor for keeping strict account of actual costs as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor, and the fact that the City Manager has kept account of the cost aforesaid, shall not in any way be construed as proving or substantiating the validity of the claim. If the claim, after consideration by the City Manager, is found to be just, it will be paid as extra work in the amount as approved by the City Manager.
- 16. DURATION OF CONTRACT: The duration of the contract shall be for the period stated in the Specifications, and shall include all material, equipment and/or services ordered or delivered during the period. All prices quoted shall be for a definite fixed period unless otherwise noted in the Specifications.
- 17. PURCHASES: After a contract has been signed, it shall only become operative upon delivery to the Bidder a duly signed purchase order. The City shall only be obligated under the contract to the extent of such purchase order. The City shall not become liable for any claims in the event that the total quantity of material ordered or services performed under the contract should prove to be greater or less than the estimated amount in the Specifications.
- 18. DELIVERY: The Bidder agrees to make deliveries of supplies and materials within a reasonable period from the time purchase orders are received, which reasonable time is estimated to be thirty (30) days.

If deliveries are not made within such period, then the City may purchase such items in the open market; and if the prices paid by the City shall be greater than the contract price, the Bidder agrees to reimburse the City for any loss or losses that the City may thereby sustain.

Delivery time for vehicles and equipment may be extended beyond thirty (30) days, provided the Bidder has noted the delivery time in the appropriate space on the Proposal-Contract Form.

19. **PAYMENT OF INVOICES:** Invoices will be due and payable within thirty (30) days of receipt of the invoice by the City. All invoices should be mailed to the attention of the Accounts Payable Department. Payments may be made on a basis of estimated partial completion of work or delivery, and the City may withhold a percentage of each partial payment until completion of the contract. The City may withhold a percentage of the final estimate for a specified period as a guarantee. Such a procedure for partial payments must be provided for in the Specifications.
20. **CONTRACT BOND:** The successful Bidder will be required to furnish the approved bond for the faithful performance of the contract in the amount of one hundred percent (100%) of the contract price. Such bond shall be that of an approved surety company or personal bond upon which the sureties are persons not interested in the contract, or, if interested, collateral security shall be furnished, all of which is to be to the satisfaction of the Law Director, including sureties.

In lieu of a performance bond the City may elect to hold the Proposal Deposit Check, submitted with the proposal, until the contract has been fulfilled. **Any deviation from the required one hundred percent (100%) figure will be noted in the Specifications.**
21. **GENERAL:** Contractors shall furnish all labor, equipment, materials, services and supplies necessary to complete the proposed work. All work shall be performed according to all standards of good workmanship complete in every detail. Contractors shall coordinate their work with the work of others and, upon completion, remove tools, equipment, waste and debris and leave the site in "broom-clean" condition. Contractors shall warrant all equipment, materials, services and supplies with the normal and usual warranties, including, where applicable, warranties of merchantability and fitness for a particular purpose.
22. **WAIVERABILITY:** The City of Mentor reserves the right to accept any part of any proposal and reject all or parts of any and all proposals, and waive any informalities in the bidding procedure.
23. **PREVAILING WAGE:** Contractors must comply with ORC Chapter 4115 when applicable. It is the Contractor's responsibility to contact the City's Prevailing Wage Coordinator to determine requirements.
24. **TAXES:** Contractor shall pay and/or withhold all sales, consumer, use, employment and other taxes (including the City of Mentor 2% income tax) paid or withheld by Contractor in accordance with the Laws and Regulations of the

United States, State of Ohio and City of Mentor which are applicable during the performance of the work.

QUESTIONS:

City of Mentor Contacts:

Kenn Kaminski, Director of Parks and Recreation
6000 Heisley Rd
Mentor Ohio, 44060
Phone (440)974-5722
Kaminski@cityofmentor.com

Nita Justice, Recreation Superintendent
6000 Heisley Rd
Mentor Ohio, 44060
Phone (440)974-5722
Justice@cityofmentor.com

R. E. Warner & Associates, Inc Contacts:

Char Ligo, Senior Project Manager
cligo@rewarner.com

Jennifer Kalin, Market Director, Government and Commercial
25000 Country Club Blvd, Ste. 340
North Olmsted Ohio, 44070
Phone (440)925-0726
jkalin@rewarner.com

III. BUSINESS ENTITY RESOLUTION

_____, of _____
(Name of Officer) (Name of Business Entity)

an _____ Business Entity hereby certifies that the following is a true
(State where incorporated/organized if applicable)

and correct copy of a resolution duly adopted by the Board of Directors of _____,
(Business Entity Name)

on _____, _____, to wit:
(Month, Day) (Year)

"Resolved, that _____* of this Business Entity, namely
(Name of Officer)

_____, be and he/she hereby is authorized and directed to enter into any and all
(Title of Officer)

contracts, bid guaranty and performance bonds with **THE CITY OF MENTOR, OHIO**, for the purpose of

furnishing labor and/or materials as to _____
(Title of Bid)

at such price and upon such terms and conditions, including any amendments or modifications thereto, as

said _____ in his/her sole discretion shall deem best,
(Title of Officer)

and that said actions shall be binding upon the Business Entity.

"Resolved, further, that said _____* be, and he/she further is
(Name of Officer)

hereby authorized and directed to execute and deliver unto said **CITY OF MENTOR, OHIO** other
instruments which in his/her discretion he/she shall deem necessary to carry out the forgoing resolution."

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Business Entity
(if applicable) at _____ this _____ day of _____, _____, and I
further certify that said resolution is still in force and effect.

SECRETARY

SEAL

*Name must agree with signature on page Bidders Acceptance to Contract

THIS PAGE HAS BEEN INTENTIONAL OMITTED IN ATTEMPT TO KEEP RECORD OF A PLANHOLDERS LIST.

CONTRACT (BAC-1) AVAILABLE ONLY BY CONTACTING KYLE KASKY AT KASKY@CITYOFMENTOR.COM OR (440)974-5774

B. NOTICE OF AWARD

Whereas, _____ responded to an invitation to bid as to purchase Civic Center Recreation Waterslide Replacement Project and whereas said bid by _____ was approved by the City Council as the lowest and best bid, now, therefore, the City of Mentor awards the contract subject to final acceptance below to _____ to be performed pursuant to the terms and conditions specified in the following documents (component parts):

1. Instructions to Bidders
2. Bond or Certified Check
3. Specifications: General Requirements/Contractor's Responsibilities
4. Proposal/Contract Form
5. Other

Kyle Kasky, *Purchasing*

Date

C. VENDOR AGREEMENT

_____ hereby agrees to perform the services as bid and agrees to abide by all terms and conditions as identified. In the event of contradiction or ambiguity between the paragraphs contained in the *Instructions to Bidders* versus the other more specific paragraphs under *Specifications: General Requirements/ Contractor's Responsibilities, Proposal/Contract Form, Other*, the paragraphs in the *Specifications: General Requirements/Contractor's Responsibilities, Proposal/Contract Form and Other*, shall control. And whereas, the City of Mentor intends to be bound by the contract, it will pay to _____ the sums so stated in the *Proposal/Contract Form* upon satisfactory delivery of the goods and/or performance of the service.

_____, has reviewed the above component parts of the contract documents and finds no ambiguity in the terms and conditions thereof.

Date

D. ACCEPTANCE BY THE CITY OF MENTOR

THE FOREGOING CONTRACT IS HEREBY ACCEPTED AS TO ALL OF THE COMPONENT PARTS AND, IN SPECIFIC, TO ITEM(S) #

Item(s) # 1

Pursuant to Ordinance _____ Passed on _____.

By the Council of the City of Mentor, for the period through _____.

FUNDS AVAILABLE:

David W. Malinowski, *Finance Director*

Date

Kenneth J. Filipiak, *City Manager*

Date

APPROVED AS TO FORM:

Joseph P. Szeman, *Law Director*

Date

ESCROW WAIVER

In accordance with a certain Contract between the City of Mentor, (hereinafter referred to as "the Owner") and _____ (hereinafter referred to as "the Contractor"), it is mutually agreed by and between the parties hereto that no escrow account will be established pursuant to Sections 153.13, 153.14 and 153.63 of the Ohio Revised Code nor shall any interest be paid on any retainage.

CITY OF MENTOR

Kenneth J. Filipiak, City Manager

COMPANY

Company President

SAMPLE

DELINQUENT PERSONAL PROPERTY STATEMENT

_____ having been awarded a contract by the City of Mentor, hereby affirms under oath, pursuant to Ohio Revised Code Section 5719.042, that at the time the bid was submitted, my company **was / was not** charged with delinquent personal property taxes on the General Tax List of Personal Property for Lake County, Ohio.

If such charge for delinquent personal property tax exists on the General Tax List of Personal Property for Lake County, Ohio, the amount of such due and unpaid delinquent taxes, including due and unpaid penalties and interest, shall be set forth below.

This statement shall be incorporated into the Contract made between the City of Mentor and _____ and no payment shall be made with respect to any Contract unless such statement has been so incorporated as a part hereof.

Delinquent Personal Property Tax	\$ _____
Penalties	\$ _____
Interest	\$ _____

Signed: _____
Company President

Subscribed in my presence, and sworn to before me, this _____ day of _____, 2024.

Signed: _____
(Notary Public)

AFFIDAVIT
OF COMPLIANCE WITH OHIO REVISED CODE SECTION 3517.13

STATE OF OHIO

COUNTY OF LAKE

_____ being duly sworn deposes and states
as follows:

1. I am duly authorized to make the statements contained herein on behalf of _____ (“the Contracting Party”).
2. The Contracting Party is a/an (select one):
 - Individual, partnership, or other unincorporated business association (including without limitation, a professional association organized under Ohio Revised Code Chapter 1787), estate, or trust;
 - Corporation organized and existing under the laws of the State of _____;
 - Labor organization.
3. I hereby affirm that the Contracting Party and each of the individuals specified in R.C. 3517.13(I) (with respect to non-corporate entities and labor organizations) or R.C. 3517.13(J) (with respect to corporations) are in full compliance with the political contribution limitations set forth in R.C. 3517.13(I) and (J), as applicable.
4. I understand that a false representation on this certification will incur penalties pursuant to 3517.992 (R)(3).

Affiant further sayeth naught.

By: _____

Title: _____

SWORN TO BEFORE ME and subscribed in my presence this _____ day of _____, 2024.

Notary Public

My commission expires: _____

SPECIFICATIONS

Fiberglass Waterslides

SECTION 13 14 13 Waterslides

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fiberglass Waterslides

1.02 RELATED SECTIONS

- A. Section 03300 – Cast-in-Place Concrete.

1.03 REFERENCES

- A. ASTM F2376 – Standard Practice for Classification, Design, Manufacture, Construction, and Operation of Water Slide Systems.
- B. ASTM F770 – Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices.
- C. ASTM A36/A36M – Specification for Structural Steel.
- D. ASTM A53/A53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- E. ASTM A123/A123M - Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- F. ASTM A252 - Standard Specification for Welded and Seamless Steel Pipe Piles
- G. ASTM A325 – Specification for High-Strength Bolts for Structural Steel Joints.
- H. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
- I. ASTM D7803-19 Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Powder Coating
- J. AWS A2.4 – Standard Symbols for Welding, Brazing and Non-destructive Examination; American Welding Society.
- K. AWS D1.1 – Structural Welding Code – Steel; American Welding Society.
- L. AWS D1.6 - Structural Welding Code-Stainless steel.
- M. CSA W47.1 - Certification Of Companies For Fusion Welding Of Steel
- N. CWB 59.1 (Canada) Welded Steel Construction (Metal Arc Welding).
- O. ASCE 7 Minimum Design Loads and Associated Criteria for Building and Other Structures
- P. ICCA CSA S16 (Canada) Design of steel structures.

1.04 SYSTEM DESCRIPTION

- A. Work Included:

1. Furnish fiberglass waterslides as specified herein, but not necessarily limited to the following:

- a. All fiberglass flume components.
- b. All flume structural support systems.
- c. All tower, platforms, guardrails, handrails, stairways, and related supports.
- d. Training, ride testing, and commissioning, for slides higher than 6 feet (1.83m).
- e. Installation drawings.
- f. Operations and Maintenance manuals.

1.05 SUBMITTALS

A. Waterslides:

1. Construction Drawings:

- a. Before any materials are delivered to the job site, submit the following drawings to the Engineer for approval:
 - I. Slide path design with X, Y, Z (elevation) coordinates.
 - II. Flume component details, including interface at slide entry and exit.
 - III. Flume structural support system details.
 - IV. Foundation plans and details as required for flume structural support.
 - V. Schematic for waterslide and pool deck interface.
- b. All construction drawings shall be certified and sealed by a Professional Engineer registered in the State where the waterslide is being installed.
- c. A Professional Engineer experienced in design of this work and licensed in the State where the waterslide is being installed must certify the structure design. Structure must be sized to handle the user volumes, the height required by the flume length, and the location on the existing topography

- 2. Selection Samples: Color charts representing manufacturers' full range of available colors.

B. Canopy cover:

- 1. Product Data: Manufacturer's descriptive literature for specified systems, including all components.
- 2. Construction Drawings:
 - a. Indicate layout heights, component connection details, and details of interface with adjacent construction.
 - b. All construction drawings shall be certified and sealed by a Professional Engineer registered in the State where the shade structure is being constructed.
- 3. Selection Samples: Color chart representing manufacturer's full range of available colors.

- C. Safety Signage:
 - 1. Manufacturer shall provide waterslide safety rules sign in keeping with World Waterpark Association Guidelines and applicable safety standards for waterslide design and manufacture.
- D. Operation and Maintenance Data: The manufacturer shall supply a complete operating and maintenance manual.
- E. Standards: Confirm that products of this section meet or exceed specified requirements.
 - 1. The slide manufacturer shall communicate to the Owner that the depth, width, and length of the receiving pool is acceptable and compatible with safety standards for the manufacturer's designed product.
 - 2. The slide manufacturer shall conform to the Owner that the specified waterslide meets or exceed waterslide safety standard as specified on the project.

1.06 QUALITY ASSURANCE

- A. Qualifications of Suppliers and Personnel:
 - 1. Manufacturer Qualifications:
 - a. Supplier shall have a minimum five (5) years of experience designing and building waterslide and be able to demonstrate their specific experience and competency in the manufacturing and installation of waterslides.
 - b. Supplier shall provide appropriate Performance and Labor/Material payment bonds (if required) and shall provide certificates of General Liability and Product Liability Insurance.
 - c. Supplier shall provide Insurance certificate illustrating a minimum of \$1,000,000 general and product liability.
 - d. Supplier shall submit evidence of written Quality Assurance Program with ISO-9001 Certification with their bid.
 - 2. Installer Qualifications:
 - a. Company specializing in providing products of this section with at least five (5) years of experience or company having been trained and certified in performing the work of this section by the manufacturer.
- B. Codes and Standards:
 - 1. In addition to complying with recognized waterslide safety standards and regulations, comply with pertinent recommendations contained in:
 - b. "WWA Considerations for Operation Safety", as published by the World Waterpark Association.

- c. "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" of the American Institute of Steel Construction.
 - d. "Code for Welding in Building Construction" of the American Welding Society.
 - e. "Specifications for Architecturally Exposed Structural Steel" of the American Institute of Steel Construction.
 - f. "Manual of Standard Practice", Publication CRSI (DA4) of the Concrete Reinforcing Steel Institute.
 - g. "Structural Concrete for Buildings", Publication ACI 301 of the American Concrete Institute.
 - h. "Building Code Requirements for Reinforced Concrete and Commentary", Publication ACI 316 of the American Concrete Institute.
 - i. ASTM requirements for all steel components, of the American society of Testing Materials.
2. Where provisions of pertinent codes and standards conflict with this specification, the more stringent shall govern.
- C. Engineering: Design structures under direct supervision of a Professional Engineer experienced in design of this work and licensed at the place where the Project is located.
- D. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

1.07 DELIVERY, STORAGE, AND PROTECTION

- A. Store all materials under cover and elevated above grade.

1.08 WARRANTY

- A. Minimum Warranty periods for waterslide system:

- Twenty-five (25) years warranty on stainless steel tubing
- Ten (10) years warranty on structural stainless steel* and weld workmanship.
- Five (5) years warranty on brass and polymer panels
- Two (2) years warranty on finishes, galvanized steel structure, plumbing components, mechanisms & hardware and polymers.
- One (1) year warranty on electrical components, paint graphics and decal, polymer composite (fiberglass).

*Stainless steel used for climbable structures or used to hold a minimum weight of 240 lbs.

Any failures that may occur within this warranty period, due to defective installation and/or materials, shall upon written notification of such failure be immediately repaired or replaced in accordance with manufacturer warranty.

1.09 PRE-APPROVAL

- A. Slide manufacturer providing a detailed comparative analysis including but not limited to: material, coatings, construction, applicable safety standards, applicable manufacturing standards, sustainable water flow, lead time, replacement parts, can be approved for this project as long as the slide manufacturer has had their design layout approved prior to bidding and all minimum bid requirements are satisfied.

PART 2 PRODUCTS

2.01 WATER SLIDE DESIGN

- A. The preliminary slide layouts have been developed utilizing a slide path design provided by the manufacturer.
- B. All products provided under this contract shall be equal to or greater than those supplied by the basis of design and approved by the design team prior to bid submission.
- C. Water flow requirements may vary depending on the slide path layout. Refer to project documentation for slide specific water flow.

2.02 FIBERGLASS FLUME SLIDE COMPONENTS

- A. Fiberglass Slide Style: The fiberglass slide shall be high quality precision engineered style, manufactured using a Light Resin Transfer Molding (LRTM closed mold process) providing unprecedented precision, dependable manufacturing quality and low environmental impact. The fiberglass slide components shall consist of fiberglass parts and sections composing the waterslide flume which contains the water and the rider during the descent.
- B. Slide type and configurations:
 - 1. [Slide type 36-inch (91.4 cm) Open flume shall be designed with a parabolic open profile shape 36 inches wide and 24 inches deep (91.4 x 61cm), channeling the water and the rider to the centerline of the ride path. Each section shall be made of one piece with integrated high walls and curved riser.
 - a. Starting height of slide(s): 33'3" ft.
 - b. Ride length: Slide 1 - 269' 9" ft. Slide 2 – 130' 8" ft
 - c. Exit type: [Integrated runout exit],
 - 2. [Slide type 32-inch (81.3 cm) Closed flume fiberglass slide(s) shall be designed with a circular 32 inches diameter (81.3 cm) profile composed of two bolted halves.
 - a. Tower height / Starting height of slide(s): 33'3" ft.
 - b. Ride length: Slide 3 - 243' ft

c. Exit type: [Integrated runout exit],

C. Fiberglass Laminate Materials:

1. Process: At least 90% of all fiberglass flume parts are to be manufactured using a Resin Transfer Molding (LRTM) system.
2. Finish: All fiberglass flume parts are to have a smooth surface finish. Both A-side and B-side shall have a 600-grit surface finish or better.
3. Gel coat: Interior and exterior gelcoat shall be a high quality isophthalic polyester with UV inhibitors. 18 to 20 wet mils (0.45 to 0.50 mm) applied to ride surface, a minimum of 18 wet mils (0.45 mm) applied to the exterior coating.
4. Gel coat shall be selected from manufacturer's standard range.
5. Resins & fibers: Polyester resin for LRTM process. Superior quality resin must provide superior resistance to osmosis blistering. All fiberglass reinforcement shall be E Glass type or better. No fillers are allowed along the riding surface.
6. Structure:
 - a. The body of the flume shall have a minimum 0,23 inch (6mm) thickness.
 - b. Flanges ("L" style flange) shall be fabricated with additional fiberglass reinforcements with a minimum thickness of 0,315 inch (8mm). They shall extend at least 3 inches (76mm) from the sliding surface.
 - c. Runout part shall include woven roving NCF fiber reinforcement mats for added stiffness.
 - d. No fillers to be used anywhere in the process.

D. Joints, Connections, and Seams:

1. Flume to flume joints shall be fastened with 3/8-inch stainless steel bolts, washers (2 per bolt), lock washer, and nuts.
2. Flume to support system connections shall be made with stainless steel hardware.
3. All connections shall be external to flume interior. No connection, hardware, or penetration shall be made to flume interior.
4. Fiberglass joint connections shall be made using waterproof non-shrink caulking with suitable adhesion to fiberglass. Silicone sealants are not permitted.
5. Fiber glassing over seams within the riding surface is not permitted. Sanding within the slide surface should be minimized to maintain adequate gel coat thickness and gloss. Any sanded areas shall be polished to a high gloss until undetectable.

E. Color:

1. Riding surface color shall be integral to the fiberglass.
2. Fiberglass color shall be selected by the Architect/Engineer and Owner from manufacturer's color chart.

F. Required Components:

1. Entry section shall be pre-plumbed for water injection downstream of the rider entry point.

2. The open flume slide profile design shall include a parabolic shape that keeps the water flow and the user more centered with the slide path providing a smoother ride and reducing abrupt rider's oscillations. The slide profile shall also have a "U" shape profile with integrated highwalls for the rider's safety and protection.
3. Curved flume sections of Open flume slides shall have integrated curve risers, integral to the flume (no bolt-on riser), for safety and to prevent water loss. Riser ends to provide a smooth angled transition at the beginning and ending of each riser shall be provided integral to the flume section.
4. Pool entry section shall provide a smooth transition end piece providing a safe pool entry and covering any hardware or connection to the pool.
5. Factory pre-drilling of slide flanges, where applicable (excluding the last section or exit section for site adjustment).
6. Stainless steel assembly hardware as described.
7. Piping: Above grade plumbing shall be PVC schedule 80, unless otherwise noted on project documentation. Water connections to be done on-site. Painting of the piping connections is recommended and to be coordinate between Contractor and Client.

2.03 WATERSLIDE STRUCTURAL TOWER AND STAIRWAY SYSTEMS

- A. The waterslide structural tower and stairway system shall consist of all necessary elements to reach and support the starting platform. It shall be hot-dipped galvanized steel and prefabricated for bolt-up installation. It shall include Platform, landing, support structure and stairway system.
- B. Structural tower and stairway systems shall be designed to safely support these facilities given the following design criteria:
 1. Seismic zone (designed as per ASCE 7 according to the project location) or _ [Other specific seismic project requirements to be defined by Architect / Project Engineer].
 2. Wind speed (designed as per ASCE 7 according to the project location) or [Other specific requirements higher than 100mph to be defined by Architect / Project Engineer].
 3. Snow load (designed as per ASCE 7 according to the project location) or [Other specific requirements to be defined by Architect / Project Engineer].
 4. Live load of: 100 pounds per square foot or [Other specific project requirements to be defined by Architect / Project Engineer].
 5. Other criteria may be required by local regulatory authorities.
- C. Structural steel and structural hardware
 1. It shall be hot-dipped galvanized steel and prefabricated for bolt-up installation.

2. Pipe Columns: All pipe columns shall meet the requirements of ASTM A500, Grade B, minimum $F_y = 42,000$ psi, ASTM A53 Grade C or ASTM A252 Grade 3.
3. Tubing: All rectangular or square tubing shall meet the requirements of ASTM A500, Grade B, minimum $F_y = 46,000$ psi.
4. Structural hardware:
 - a. High Strength Bolts for structural steel components:
 - All high strength bolts shall meet the requirements of ASTM A325 grade.
 - Use high-strength friction bolts for all bolted connections unless otherwise indicated.
 - b. Anchor Bolts: All anchor bolts shall be hot-dip galvanized and shall meet the requirements of ASTM A36. Stainless steel anchors can be used when potential contact with water.

D. Platforms, landings and support structure

1. Shall include structural support pipe columns, arms, cross bracing, anchors and hardware as required by the design to support platforms and landings. They shall be constructed of hot-dip galvanized steel. Platforms and landings shall include guardrails, guardrail support posts constructed of hot-dip galvanized steel and platform pultruded grating constructed of FRP corrosion resistant material. All components shall be designed for bolt-up installation.
2. Structural support columns shall be structural pipe or tubing with welded tabs for support arms or cross braces assembly and welded base plate. Diameter, thickness and reinforcement gussets as per structural Engineer analysis. Anchors type, amount and embedment as per structural Engineer analysis.
3. Support arms and cross braces shall be structural pipe or tubing with welded tabs as per the design.
4. Guardrail system
 - a. Guardrail: Rails and frames shall be fabricated from steel tubes with nominal size of 1,5 x 1,5 inches (3.8 cm) 11 gage. The balustrade shall be vertical pickets constructed of steel square bars of nominal size of 0,5 x 0,5 inch (12 mm) welded to rail frame. Pickets spacing shall be maximum 4 inches (101 mm) center.
 - b. Guardrail support posts shall be 2 x 2 inches (50.8mm) structural square tube with wall thickness of 0,188 inch (4.8mm).
5. Platform surfaces shall be non-corrosive pultruded pedestrian fiberglass grating (FRP) panel 1,5" (38.1 mm) thick with 18% openings being structurally strong and providing comfortable ADA compliant walking surface providing adequate bare feet friction. The grating shall provide impact resistance,

corrosion resistance, low maintenance and suitable for indoor/outdoor use conforming to the following:

- a. Shall be constructed of high strength and high stiffness pultruded elements (material isophthalic polyester resin systems) having a maximum of 70% and a minimum of 60% glass content (by weight) of continuous roving and continuous strand mat fiberglass reinforcements.
 - b. Concentrated load supporting 1190 lbs. (540 kg) at 72" (182 cm) max span.
 - c. Uniform load supporting 390 psf (1904 kg/m²) at 72" (182 cm) max span.
 - d. Shall have UV inhibitors in the resin and a synthetic surfacing veil providing corrosion resistance and optimum protection from the structural effects of UV weathering.
 - e. Finished walking surface shall have openings of a maximum width of 3/8" (9.5mm) and suitable for bare foot traffic.
 - f. Finished walking surface shall have an integrally applied grit finish and shall be part of the component, not be added or adhered to platforms and landings, for optimal durability and low maintenance.
 - g. Shall be fire retardant with a tested flame spread rating of 25 or less when tested in accordance with ASTM E84.
 - h. Color to be selected from manufacturer's standard range.
6. Anchors type, size and embedment shall be indicated on Installation drawing according to the structural engineer.

E. Stairway system

1. Shall consist of stair stringers, railing system, handrails, step risers and stair treads. Steel components shall be constructed of hot-dip galvanized steel. Stair treads shall be constructed of FRP corrosion resistant material.
2. Design:
 - a. Configuration shall be as shown on drawings.
 - b. Steel components shall be constructed of hot-dipped galvanized steel, designed and prefabricated for bolt-up installation.
 - c. Stair systems shall be closed risers design.
 - d. A hinged gate with a locking system at the base of the stairway shall be included.
 - e. Prefabricated railings and guardrails shall be a minimum of 42 inches (1.06 m) high at any point and designed to be non-climbable.
3. Stringers shall be constructed of structural C channel. Sizes shall be according to the design and structural calculations depending on the length.
4. Railing system

- a. Rails and frames shall be fabricated from steel tubes with nominal size of 1,5 x 1,5 inches (3.8 cm) 11 gage. The balustrade shall be vertical pickets constructed of steel square bars of nominal size of 0,5 x 0,5 inch (12 mm) welded to rail frame. Pickets spacing shall be maximum 4 inches (101 mm) center.
 - b. Railing support posts shall be 2 x 2 inches (50.8mm) structural square tube with wall thickness of 0,188 inch (4.8mm).
 - c. Handrail brackets shall be included.
5. Straight grab rails or handrails shall be hot-dip galvanized steel 1,25 inch (32 mm) pipe schedule 40. Handrail sections shall be connected together using hot-dip galvanized connectors. Handrails shall be painted for extended corrosion protection. Color to be selected by Architect/Engineer and Owner from the manufacturer's color chart.
6. Step risers shall be bended steel plates connected to the step supports.
7. Stair treads and stair landing surfaces
- a. Stair treads and landing surfaces shall be non-corrosive pultruded pedestrian fiberglass grating (FRP) panel 1,5" thick with 18% openings being structurally strong and providing comfortable ADA compliant walking surface providing adequate bare feet friction. The grating shall provide impact resistance, corrosion resistance, low maintenance and suitable for indoor/outdoor use conforming to the following:
 - b. Shall be constructed of high strength and high stiffness pultruded elements (material isophthalic polyester resin systems) having a maximum of 70% and a minimum of 60% glass content (by weight) of continuous roving and continuous strand mat fiberglass reinforcements.
 - c. Concentrated load supporting 1190 lbs. (540 kg) at 72" (182 cm) max span.
 - d. Uniform load supporting 390 psf (1904 kg/m²) at 72" (182 cm) max span.
 - e. Shall have UV inhibitors in the resin and a synthetic surfacing veil providing corrosion resistance and optimum protection from the structural effects of UV weathering.
 - f. Finished walking surface shall have openings of a maximum width of 3/8" (9.5mm) and suitable for bare foot traffic.
 - g. Finished walking surface shall have an integrally applied grit finish and shall be part of the component, not be added or adhered to platforms and landings, for optimal durability and low maintenance.
 - h. Shall be fire retardant with a tested flame spread rating of 25 or less when tested in accordance with ASTM E84.
 - i. Color to be selected from manufacturer's standard range.

F. Protective Coating and Color

1. All steel support structure to be factory prepared, protected and coated for maximum corrosion protection conforming to the following. Field touch-up as required.
 - a. Corrosion protection: All steel parts to be protected with a multi-step process of hot-dip galvanization as per ASTM A123 including cleaning, rinsing, pickling and hot-dip coating. Coating thickness to be a minimum of 1.8 mils (0.04 mm).

2.04 WATERSLIDE STRUCTURAL FLUME SUPPORT SYSTEM

- A. The waterslide structural flume support system shall consist of all necessary elements to support the fiberglass flume between the starting platform and the exit area. It shall include support columns, arms, braces, flume brackets, support posts, anchors and hardware. All components shall be designed for bolt-up installation.
- B. The Waterslide structural flume support system shall be designed to safely support these facilities given the following design criteria:
 1. Seismic zone (designed as per ASCE 7 according to the project location)
 2. Wind speed (designed as per ASCE 7 according to the project location)
 3. Snow load (designed as per ASCE 7 according to the project location)
 4. Live load of: 100 pounds per square foot
 5. Other criteria may be required by local regulatory authorities.
- C. Structural steel and structural hardware
 1. Pipe Columns: All pipe columns shall meet the requirements of ASTM A500, Grade B, minimum $F_y = 42,000$ psi, ASTM A53 Grade or ASTM A252 Grade 3.
 2. Tubing: All rectangular or square tubing shall meet the requirements of ASTM A500, Grade B, minimum $F_y = 42,000$ psi.
 3. Structural hardware:
 - a. High strength bolts for structural steel components:
 - All high strength bolts shall meet the requirements of ASTM A325 grade.
 - Use high-strength friction bolts for all bolted connections unless otherwise indicated.
 - b. Stainless steel High strength bolts: Connecting hardware to attach the slide to structural components shall be stainless steel, nuts, bolts, and washers.
 - I. Bolts:
 - Stainless steel per ASTM F593, Alloy Group 1 or 2.

- All bolt fittings shall include nylon washers for a watertight seal at all joints.
- II. Nuts: Stainless steel per ASTM F594, Alloy Group 1 or 2.
- c. Anchor Bolts: All anchor bolts shall be hot-dip galvanized and shall meet the requirements of ASTM A36.
- D. Slide structural support columns shall be structural pipe or tubing with welded tabs for support arms or cross braces assembly and welded base plate. Diameter, thickness and reinforcement gussets as per structural Engineer analysis. Anchors type, amount and embedded as per structural Engineer analysis.
- E. Slide support posts shall be structural pipe or tubing with welded slide support bracket and welded base plate.
- F. Support arms and cross braces shall be structural pipe or tubing with welded tabs as per the design.
- G. Flume brackets shall be fabricated from steel plates and designed for bolted assembly. Flume support bracket design shall offer installation adjustment flexibility on-site.
- H. Protective Coatings and Colors
 1. All steel support structure to be factory prepared, protected and coated for maximum corrosion protection conforming to the following. Field touch-up as required.
 - a. Corrosion protection: All steel parts to be protected with a multi-step process of hot-dip galvanization as per ASTM A123 including cleaning, rinsing, pickling and hot-dip coating. Coating thickness to be a minimum of 1.8 mils (0.04 mm).

2.03 SAFETY SIGNAGE

- A. Waterslide manufacturer shall provide signage information listing safety rules and waterslide riding instructions.
- B. Sign(s) shall be durable, non-corrosive, rigid plastic or aluminum material suitable for indoor or outdoor installations.
- C. Character Color: Contrasting color.

2.04 CANOPY

The upper platform and slide entry section shall be protected from the sun by a pyramid shaped fabric cover.

A. Structural Frame Members:

1. Materials: Same as slide structure.
2. Steel Protection: Same as slide structure.

B. Design Criteria:

1. Live loads: 10 pounds per square foot (0.48 kPa).
2. Wind design speed: 80 miles per hour (128 km/h).
3. Snow load: 5 pounds per square foot (0.24 kPa).

C. Hardware:

1. Cable:
 - a. Vinyl covered galvanized multi-strand cable.
 - b. Size: As required to meet design criteria.
 - c. Cable shall be secured with approved fittings and cable hardware as per manufacturer's specifications.
2. Bolts and Nuts:
 - a. Bolts:
 - i. Stainless steel per ASTM F593, Alloy Group 1 or 2.
 - ii. All bolt fittings shall include nylon washers for a watertight seal at all joints.
 - b. Nuts: Stainless steel per ASTM F594, Alloy Group 1 or 2.
3. Anchor Bolts: All anchor bolts shall be hot-dip galvanized and shall meet the requirements of ASTM A36.

D. Shade Fabric:

1. Raw material: High-density polyethylene fabric mesh with ultraviolet inhibitors.
2. Construction:
 - a. A monofilament and tape construction giving a stable material.
 - b. Ratchet knitted to ensure material will not unravel when cut.

3. Characteristics:
 - a. Solid Colors:
 - i. Finish: Stretch mesh fabric.
 - ii. Tear Strength:
 1. Warp: 220.4622 pounds.
 2. Waft: 462.9707 pounds.
 - iii. Burst Strength: 37.7098 psia.
 - iv. Fabric Mass: 6.8784 ozm.
 - b. Strip Colors:
 - i. Finish: Fabric is stentored.
 - ii. Tear Strength:
 1. Warp: 182.9836 pounds.
 2. Waft: 401.2413 pounds.
 - iii. Burst Strength: 33.0688 psia.
 - iv. Fabric Mass: 7.0547 ozm.
 - c. Life Expectancy: A minimum of 8 years continuous exposure to the sun.
 - d. Fading: Minimum fading after 5 years.
4. Fire Rating: When tested using the procedures outlined in ASTM E84, the flame spread index shall be 15 (Class I) and the smoke developed index shall be 15.
5. Fabric shall be attached to pipe frame using brass grommets and rope as required.
6. Colors: Selected by Architect/Engineer and Owner from the manufacturer's range of available colors.

E. Bottom of shade shall be 7' above the entry tub or any standing surface.

F. Protective Coatings and Colors

1. All steel support structure to be factory prepared, protected and coated for maximum corrosion protection conforming to the following. Field touch-up as required.
 - a. Corrosion protection: All steel parts to be protected with a multi-step process of hot-dip galvanization as per ASTM A123 including cleaning, rinsing, pickling and hot-dip coating. Coating thickness to be a minimum of 1.8 mils (0.04 mm).

PART 3 EXECUTION

3.01 FABRICATION

- A. Fabricate all water slides and structural support systems in strict accordance with Shop Drawings and referenced standards.
- B. Use of dissimilar metals in contact shall not be permitted.

3.02 INSTALLATION

- A. Footings and foundations shall be installed in strict accordance with the Construction Drawings.
- B. Safety Signage: Install one sign at the base of each tower and one at the top of each tower.

3.03 WELDING

- A. Structural welding shall follow CSA W47.1 / AWS D1.6 / EN 1090-2, including:
Design, Execution, Inspection.
 - 1. Field welds not permitted
- B. For details of joints, comply with requirements for AWS joints accepted without qualification tests.
- C. Use E-70XX series electrodes.
- D. Follow applicable sections of AWS specifications.
- E. Types of Welds (unless otherwise noted):
 - 1. Make all fillet welds 1/4 inch minimum.
 - 2. Make all butt welds full penetration welds.

3.07 OWNER INSTRUCTION

- A. Manufacturer's Field Representative shall train Owner's personnel in the operation and maintenance of waterslides 6' and above at the job site during ride start-up and commissioning.

Contract executed and approved colors to be submitted to manufacturer by November 4th 2024 to ensure fully operational by Memorial Day 2025.

END OF SECTION

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes instructions to furnish and erect an additional matching fiberglass waterslide with one (1) flume adjacent the two (2) waterslides included in the base bid.
- B. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost for this alternate is the net addition to the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of the alternate. Indicate if alternate has been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternate.
- C. Execute accepted alternate under the same conditions as other work of the Contract.

- D. Schedule: A schedule of alternate is included at the end of this Section. Specification Sections referenced in the schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate – Additional third slide flume

1. Base Bid: Base bid shall include fiberglass waterslide – two (2) flumes as indicated on the drawings.
2. Alternate: ADD ALTERNATE – Include one additional fiberglass waterslide (1) flume erected alongside base bid slide flumes.

END OF SECTION 01 23 00

VI. PROPOSAL-CONTRACT FORM

The undersigned hereby proposes to furnish the City of Mentor, Ohio, the following items, in accordance with the specifications. and upon the terms and conditions of this proposal, providing this proposal or any part hereof is accepted as a contract by the City of Mentor.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRICE</u>	<u>TOTAL PRICE</u>
1.	BASE BID	2	\$ _____	\$ _____
2.	ALTERNATE BID	1	\$ _____	\$ _____
3.	TOTAL BID			\$ _____

(INCLUDE DIAGRAM OF PROPOSED SLIDE)

(ALL BIDS SHALL INCLUDE FREIGHT DELIVERY TO 8500 MUNSON, OH 44060.)

DELIVERY (days after receipt of Purchase Order): _____

WARRANTY _____

The Bidder hereby acknowledges receipt of following addenda:

Addendum No. _____ _____ _____ _____

Date: _____ _____ _____ _____

CONDITIONS: The Instructions to Bidders, and the Specifications are a part of this contract as effectively as though they preceded the signatures of the parties. This contract is not valid until accepted and signed by the City of Mentor.

STATEMENT OF BIDDER QUALIFICATIONS

- 1) Years in business providing the goods or service requested in this bid _____
 - 2) Please list on a separate sheet(s), contracts with municipalities previously held, and now held. Please list by community name, contact person, address, phone number and scope of project (starting with the most recent).
 - 3) Is your company in satisfactory financial condition? Yes No
 - 4) How many miles is your facility from the Mentor Municipal Center? _____
 - 5) Please list on a separate sheet(s) the equipment to be used in fulfilling this contract.
 - 6) Identify the project manager who will be assigned to this project and applicable years of experience managing comparable jobs. _____
-

For the following questions, on a separate sheet, please describe in full the circumstances for any Yes answer.

- 7) Has your company had any business interruptions as a result of financial conditions in the past two (2) years? Yes No
- 8) Has your company been rejected for a public contract despite being a low bidder for any reason? Yes No
- 9) Has your company had any claims against or a performance bond cancelled? Yes No
- 10) Has your company paid penalties or liquidated damages imposed as a result of delay on a public project? Yes No
- 11) Has your company been found to have committed an unfair labor practice or any other employment/labor law violation in such areas as discrimination, prevailing wage, Workers' Compensation or OSHA? Yes No
- 12) Has your company in the last three (3) years had a municipal contract cancelled or terminated? Yes No

STATEMENT OF BIDDER QUALIFICATIONS (CONTINUED)

BIDDER NAME (print/type): _____

BIDDER ADDRESS: _____

BIDDER CONTACT: _____

BIDDER PHONE NUMBER: _____

BIDDER FAX NUMBER: _____

BIDDER E-MAIL: _____

Federal Tax Identification Number: _____

State Tax Identification Number: _____

Ohio Entity Number: _____