



**DANE COUNTY DEPT. OF
PUBLIC WORKS, HIGHWAY &
TRANSPORTATION**

1919 Alliant Energy Center Way
Madison, Wisconsin 53713
Office: 608/266-4018 ♦ Fax: 608/267-1533
Public Works Engineering Division

ADDENDUM

SEPTEMBER 16, 2020

ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS

RFB NO. 320023 - ADDENDUM NO. 2

BOARDWALK REPLACEMENT

TOKEN CREEK COUNTY PARK

BIDS DUE: TUESDAY, SEPTEMBER 22, 2020, 2:00 PM. DUE DATE AND
TIME ARE NOT CHANGED BY THIS ADDENDUM.

This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB.

PLEASE MAKE THE FOLLOWING CHANGES:

1. Document Index

Change: “ Typical Panel Layout & Section ”, to “ Sheet No. 1 - Boardwalk Typical Sections ”.

2. Section 00 41 13 - Bid Form

Delete current Bid Form; replace with new Bid Form, issued with this Addendum.

3. Section 00 73 00 - Supplementary Conditions

Add the following paragraph to the Supplementary Conditions:

“CONSULTANT

A. Technical specifications for this project were prepared by Strand Associates, Inc. who is the Owner’s Consultant on this project. The Consultant is not the Architect/Engineer as defined in these documents.

Contractor shall also name as an additional insured the Consultant, Strand Associates, Inc. in the same manner as Dane County is named.

B. Contractor shall also indemnify the Consultant, Strand Associates, Inc. in the same manner as Dane County is indemnified on the project.”

4. Section 01 00 00 - General Requirements

Delete current General Requirements; replace with new General Requirements, issued with this Addendum.

5. **Section 06 10 00 - Rough Carpentry**

Delete current Section.

6. **Section 32 34 13 - Fabricated Boardwalk**

Add new Section 32 34 13, issued with this Addendum.

7. **Typical Panel Layout & Section**

Delete current sheet; replace with new sheet, titled "Sheet No. 1 - Boardwalk Typical Sections", issued with this Addendum.

PLEASE NOTE THE FOLLOWING CONTRACTOR SUBMITTED QUESTIONS:

Q1: Will powered equipment (i.e. Skid Loader) be permissible to use with the construction of this boardwalk?

A1: Yes.

Q2: Will we need a weed barrier beneath the boardwalk?

A2: No.

Q3: Is there any elevation data you would be able to provide for bidding purposes?

A3: No. This information is not available.

NOTE: Any questions not explicitly stated above have been addressed elsewhere in the details of this Addendum.

If any additional information about this Addendum is needed, please call Ryan Shore at 608/445-0109, shore@countyofdane.com.

Sincerely,

Ryan Shore

Project Manager

Enclosures:

Section 0041 13 - Bid Form

Section 01 00 00 - General Requirements

Section 3234 13 - Fabricated Boardwalk

Sheet No. 1 - Boardwalk Typical Sections

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Name of Bidding Firm: _____

SECTION 00 41 13

BID FORM

BID NO. 320023

**PROJECT: BOARDWALK REPLACEMENT
TOKEN CREEK COUNTY PARK**

**TO: DANE COUNTY DEPARTMENT OF PUBLIC WORKS, HIGHWAY &
TRANSPORTATION PROJECT MANAGER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN 53713**

**NOTE: WISCONSIN STATUTE 77.54 (9M) ALLOWS FOR NO SALES & USE TAX ON
THE PURCHASE OF MATERIALS FOR COUNTY PUBLIC WORKS PROJECTS.**

BASE BID - UNIT PRICING:

Dane County is inviting Bids for construction services to fabricate and install a boardwalk. The undersigned, having examined the site where the Work is to be executed and having become familiar with local conditions affecting the cost of the Work and having carefully examined the Drawings and Specifications, all other Construction Documents and Addenda thereto prepared by Dane County Department of Public Works, Highway & Transportation hereby agrees to provide all labor, materials, equipment and services necessary for the complete and satisfactory execution of the entire Work, as specified in the Construction Documents, for the Base Bid unit pricing as follows:

- Lump Sum Pricing for Mobilization - Includes costs associated with boardwalk design, submittals, and initial material procurement.

@ \$ _____

- ~~1,530~~ ~~1,450~~ In.ft. - Boardwalk Installation:

@ \$ _____ /In.ft. = _____

- ~~50~~ ~~20~~ In.ft. - Guard Rail to replace existing:

@ \$ _____ /In.ft. = _____

Total: \$ _____
Numeric Price

_____ and ____/100 Dollars
Written Price

ALTERNATE BID - UNIT PRICING

Add price for providing removal and disposal of existing boardwalk.

- 1,530 ln.ft. - Removal and Disposal of Existing Boardwalk:

@ \$ _____ /ln.ft. = _____

Total: \$ _____
Numeric Price

_____ and ____ /100 Dollars
Written Price

Receipt of the following addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

Dane County Parks must have this project completed by ~~April 1~~ March 1, 2021. Assuming this Work can be started by October 1, 2020, what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

I hereby certify that all statements herein are made on behalf of:

(Name of Corporation, Partnership or Person submitting Bid)

Select one of the following:

1. A corporation organized and existing under the laws of the State of _____, or
2. A partnership consisting of _____, or
3. A person conducting business as _____;

Of the City, Village, or Town of _____ of the State of _____.

I have examined and carefully prepared this Bid from the associated Construction Documents and have checked the same in detail before submitting this Bid; that I have full authority to make such statements and submit this Bid in (its) (their) (my) behalf; and that the said statements are true and correct. In signing this Bid, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a Bid; that this Bid has been independently arrived at without collusion with any other bidder, competitor, or potential competitor; that this Bid has not been knowingly disclosed prior to the Bids Due Date to another bidder or competitor; that the above statement is accurate under penalty of perjury.

The undersigned is qualified as a Best Value Contractor or has proven their exemption. Qualification or exemption shall be complete before Bid Due Date / Time.

The undersigned further agrees to honor the Base Bid and the Alternate Bid(s) for sixty (60) calendar days from date of Award of Contract.

SIGNATURE: _____
(Bid is invalid without signature)

Print Name: _____ Date: _____

Title: _____

Address: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

Contact Person: _____

END OF SECTION

THIS PAGE IS FOR BIDDERS' REFERENCE
DO NOT SUBMIT WITH BID FORM.

BID CHECK LIST:

These items **must** be included with Bid:

Bid Form

Bid Bond

Fair Labor Practices Certification

DANE COUNTY BEST VALUE CONTRACTING QUALIFICATION

General Contractors & all Subcontractors must be qualified as a Best Value Contractor with the Dane County Public Works Engineering Division. Qualification & listing is not permanent & must be renewed every 24 months. Complete a *Best Value Contracting Application* online at:

pwht.countyofdane.com/bvc_application.aspx

DANE COUNTY VENDOR REGISTRATION PROGRAM

All bidders are strongly encouraged to be a registered vendor with Dane County. Registering allows vendors an opportunity to receive notifications for RFBs & RFPs issued by the County and provides the County with up-to-date company contact information. Complete a new form or renewal online at:

danepurchasing.com/Account/Login?

SECTION 01 00 00
GENERAL REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Summary
 2. Summary of the Work
 3. Contractor Use of Premises
 4. Applications for Payment
 5. Change Procedures
 6. Alternates
 7. Lump Sum Allowances for Work
 8. Coordination
 9. Conferences
 10. Progress Meetings
 11. Job Site Administration
 12. Submittal Procedures
 13. Proposed Products List
 14. Manufacturers' Instructions
 15. Manufacturers' Certificates
 16. Quality Assurance / Quality Control of Installation
 17. References
 18. Interior Enclosures
 19. Protection of Installed Work
 20. Parking
 21. Staging Areas
 22. Occupancy During Construction and Conduct of Work
 23. Protection
 24. Progress Cleaning
 25. Products
 26. Transportation, Handling, Storage and Protection
 27. Product Options
 28. Substitutions
 29. Starting Systems
 30. Demonstration and Instructions
 31. Contract Closeout Procedures
 32. Final Cleaning
 33. Adjusting
 34. Operation and Maintenance Data
 35. Spare Parts and Maintenance Materials
 36. As-Built and Record Drawings and Specifications

1.2 SUMMARY OF THE WORK

- A. Project Description: Perform the Work as specified and detailed in Construction Documents package. Contractor to provide construction services to fabricate and install a boardwalk. The existing boardwalk is ~~1,530~~ ~~1,450~~ foot long, 6-foot wide, and rests on pans. The replacement boardwalk shall be constructed and installed in accordance with the Boardwalk Specifications and shall generally match the layout of the existing boardwalk ~~The final boardwalk shall be the same length and height, rest on standard galvanized pans and 2"x4" block curbs raised by 2"x4" pieces, and have 2"x6" framing with 5/4"x6" deck boards. Boardwalk must meet the pedestrian live load requirement of 60 p.s.f. Contractor is to return one (1) year from installation to level any settled pans.~~
- B. Work by Owner:
1. Sections of salvageable existing boardwalk will be identified.
- C. Permits: Prior to commencement of the Work, Contractor to secure any and all necessary permits for completion of the Work and facility occupancy. Provide Public Works Project Manager with copies of all permits.

1.3 CONTRACTOR USE OF PREMISES

- A. Limit use of premises to allow work by Contractors or Subcontractors and access by Owner.

1.4 APPLICATIONS FOR PAYMENT

- A. Submit one (1) original copies with "wet" signatures of each application on AIA G702™ and G703™ forms or approved contractors invoice form.
- B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.
- C. Payment Period: Monthly.
- D. Submit Applications for Payment to Public Works Project Manager for approval & processing for payment.

1.5 CHANGE PROCEDURES

- A. Contractor's costs for Products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from contingency allowance.

1.6 ALTERNATES

- A. Alternates quoted on Bid Form shall be reviewed and accepted or rejected at Owner's option.

- B. Coordinate related work and modify surrounding work as required.
- C. Schedule of Alternates:
 - 1. Alternate Bid.
 - a. Add price for providing removal and disposal of existing boardwalk ~~and selective disposal~~.

1.7 LUMP SUM ALLOWANCES FOR WORK

- A. Not Applicable.

1.8 COORDINATION

- A. Coordinate scheduling, submittals, and work of various sections of Specifications to assure efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify utility requirement characteristics of operating equipment are compatible with building utilities.
- C. Coordinate space requirements and installation of mechanical and electrical work that are indicated diagrammatically on Drawings.
- D. Contractor shall provide Public Works Project Manager with work plan that ensures the Work will be completed within required time of completion.
- E. Public Works Project Manager may choose to photograph or videotape site or workers as the Work progresses.

1.9 CONFERENCES

- A. Project shall have pre-bid conference; see Instructions to Bidders.
- B. Owner will schedule preconstruction conference after Award of Contract for all affected parties.
- C. Contractor shall submit Construction Schedule at pre-construction meeting.
- D. When required in individual Specification section, convene pre-installation conference at project site prior to commencing work of Section.

1.10 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at minimum of one (1) per week with Public Works Project Manager.
- B. Preside at meetings, record minutes, and distribute copies within two (2) business days to those affected by decisions made.

- C. Attendance at progress meetings by General Contractor, subcontractors, or their authorized representative, is mandatory.
- D. Contractors shall give verbal reports of progress on the Work, discuss schedule for upcoming period and present all conflicts, discrepancies or other difficulties for resolution.
- E. Day & time of progress meetings to be determined at pre-construction meeting.

1.11 JOB SITE ADMINISTRATION

- A. Contractor shall have project superintendent on site minimum of four (4), hours per day during progress of the Work.
- B. Contractor shall not change their project superintendent or project manager for duration of the Work without written permission of Public Works Project Manager.

1.12 SUBMITTAL PROCEDURES

- A. Submittal form to identify Project, Contractor, Subcontractor or supplier; and pertinent Construction Documents references.
- B. Apply Contractor's stamp, signed or initialed, certifying that review, verification of Products required, field dimensions, adjacent construction work, and coordination of information is in accordance with requirements of the Work and Construction Documents.
- C. Identify variations from Construction Documents and Product or system limitations that may be detrimental to successful performance of completing the Work.
- D. Revise and resubmit submittals as required; identify all changes made since previous submittal.

1.13 PROPOSED PRODUCTS LIST

- A. Within fifteen (15) business days after date of Award of Contract, submit complete list of major Products proposed for use, with name of manufacturer, trade name, and model number of each Product.

1.14 MANUFACTURERS' INSTRUCTIONS

- A. When specified in individual Specification sections, submit manufacturers' printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for Product Data.

1.15 MANUFACTURERS' CERTIFICATES

- A. When specified in individual Specification sections, submit manufacturers' certificate to Public Works Project Manager for review, in quantities specified for Product Data.

- B. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

1.16 QUALITY ASSURANCE / QUALITY CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, Products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply fully with manufacturers' instructions.
- C. Comply with specified standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

1.17 REFERENCES

- A. Conform to reference standard by date of issue current as of date for receiving bids.
- B. Should specified reference standard conflict with Construction Documents, request clarification from Public Works Project Manager before proceeding.

1.18 INTERIOR ENCLOSURES

- A. Provide temporary partitions as required to separate work areas from Owner occupied areas, to prevent distribution of dust and moisture into Owner occupied areas, and to prevent damage to existing materials and equipment.

1.19 PROTECTION OF INSTALLED WORK

- A. Protect installed work and provide special protection where specified in individual Specification sections.

1.20 PARKING

- A. Arrange for temporary parking areas to accommodate construction personnel. Parking shall be available at the Work site.
- B. All contractors and their employees shall cooperate with General Contractor and others in parking of vehicles to avoid interference with normal operations and construction activities.
- C. Do not obstruct existing service drives and parking lots with equipment, materials and / or vehicles. Keep accessible for Owner's use at all times.

1.21 STAGING AREAS

- A. Coordinate staging areas with Public Works Project Manager prior to starting the Work.

- B. On-site space for use as staging areas and storage of materials is limited and will be apportioned among various Contractors as their needs dictate with due regard for storage requirements of each Contractor. Each Contractor shall be responsible for safety of equipment and materials that are stored on site.

1.22 OCCUPANCY DURING CONSTRUCTION AND CONDUCT OF WORK

- A. Work shall be done and temporary facilities furnished so as not to interfere with access to any occupied area and so as to cause least possible interference with normal operation of facility or any essential service thereof.
- B. Contractor shall, at all times, provide approved, safe walkways and facility entrances for use by Owner, employees and public.
- C. Contractor shall provide adequate protection for all parts of facility, its contents and occupants wherever the Work under this Contract is to be performed.
- D. Each Contractor shall arrange with Owner to make necessary alterations, do new work, make connections to all utilities, etc., and at such times as will not cause interruption of utility services to facility. Contractor doing this work shall protect, cap, cut off and / or replace and relocate existing pipes, electrical work and other active utilities encountered which may interfere with new construction work.
- E. New work in extension of existing work shall correspond in all respects with that to which it connects or similar existing work unless otherwise indicated or specified.
 - 1. Existing work shall be cut, altered, removed or replaced as necessary for performance of Contract obligations.
 - 2. Work remaining in place, damaged or defaced by reason of work done under this Contract shall be restored equal to its condition at time of Award of Contract.
 - 3. If removal of work exposes discolored or unfinished surfaces or work out of alignment, such surfaces shall be refinished or materials replaced as necessary to make continuous work uniform and harmonious.
- F. Contractor is not responsible for providing & maintaining temporary toilet facilities.

1.23 PROTECTION

- A. Contractor shall protect from damage / injury all trees, shrubs, hedges, plantings, grass, walks and driveways and pay for any damage to same resulting from insufficient or improper protection.
- B. Contractor shall provide and maintain barricades & signage to prohibit public access to construction site.

1.24 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition.

1.25 PRODUCTS

- A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components specifically identified for reuse.
- B. Do not use materials and equipment removed from existing premises, except as specifically identified or allowed by Construction Documents.

1.26 TRANSPORTATION, HANDLING, STORAGE AND PROTECTION

- A. Transport, handle, store and protect Products in accordance with manufacturer's instructions.

1.27 PRODUCT OPTIONS

- A. Where definite material is specified, it is not intentional to discriminate against "equal" product made by another manufacturer. Intention is to set definite standard of material quality. Should bidder choose to bid materials other than those specified, bidder shall submit said materials specifications to Public Works Project Manager for approval at least seven (7) business days prior to Bid Due Date.
- B. Products and materials that are not specified, but have been approved for use by Public Works Project Manager shall be identified in addenda to all bidding contractors.
- C. Requests for material or product substitutions submitted after Bid Due Date may be considered. Owner reserves right to approve or reject substitutions based on Specification requirements and intended use.

1.28 SUBSTITUTIONS

- A. Public Works Project Manager shall consider requests for Substitutions only within fifteen (15) calendar days after date of Public Works Construction Contract.
- B. Document each request with complete data substantiating compliance of proposed Substitution with Construction Documents.
- C. Submit three (3) copies of requests for Substitution for consideration. Limit each request to one (1) proposed Substitution.
- D. Substitutions shall not change contract price established at Bid Due Date.

1.29 STARTING SYSTEMS

- A. Provide written notification prior to start-up of each equipment item or system.
- B. Ensure that each piece of equipment or system is ready for operation.

- C. Execute start-up under supervision of responsible persons in accordance with manufacturers' instructions.
- D. Submit written report that equipment or system has been properly installed and is functioning correctly.

1.30 DEMONSTRATION AND INSTRUCTIONS

- A. Demonstrate operation and maintenance of Products to Owner's personnel prior to date of final inspection.
- B. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at agreed-upon times, at designated location.
- C. Owner may choose to photograph or videotape demonstration session; demonstration and demonstrator shall be to level of satisfaction of Owner.

1.31 CONTRACT CLOSEOUT PROCEDURES

- A. Submit written certification that Construction Documents have been reviewed, the Work has been inspected, and the Work is complete in accordance with Construction Documents and ready for Public Works Project Manager's inspection.
- B. Submit final Application for Payment identifying total adjusted Contract Sum / Price, previous payments, and amount remaining due.

1.32 FINAL CLEANING

- A. Execute final cleaning prior to final inspection.
- B. Clean interior and exterior surfaces exposed to view.
- C. Remove waste and surplus materials, rubbish, and construction facilities from site.

1.33 ADJUSTING

- A. Adjust operating Products and equipment to ensure smooth and unhindered operation.

1.34 OPERATION AND MAINTENANCE MANUAL

- A. Provide two (2) bound, hard-copy operation and maintenance manuals that include all systems, materials, products, equipment, mechanical and electrical equipment and systems supplied and installed in the Work. Provide electronic version of operation and maintenance manual also.

1.35 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Provide Products, spare parts, maintenance and extra materials in quantities specified in individual Specification Sections.
- B. Deliver to the Work site and place in location as directed.

1.36 AS-BUILT AND RECORD DRAWINGS AND SPECIFICATIONS

- A. Contractor-produced Drawings and Specifications shall remain property of Contractor whether Project for which they are made is executed or not. Contractor shall furnish Public Works Project Manager with original marked up redlines of Construction Documents' drawings and specifications that shall include all Addendums, Change Orders, Construction Bulletins, on-site changes, field corrections, etc. These are project As-Built Drawings & Specifications. Record Drawings & Specifications shall be created from these As-Built by Public Works.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 32 34 13

FABRICATED BOARDWALK

PART 1—GENERAL

1.01 DESCRIPTION

- A. The work included under this item includes providing and installing fully-engineered timber boardwalk and railings including all fittings, accessories, and fasteners. This work also includes providing and installing all substructure elements to support the boardwalk, including adjustable legs. Provide all labor, equipment, and materials necessary to design, fabricate, and install the boardwalk.

PART 2—PRODUCTS

2.01 MATERIALS

- A. Framing System - Boardwalk structural system and connections shall be designed by contractor. Framing system shall be constructed of treated lumber or galvanized steel for the substructure and superstructure. Weathering steel may be used for superstructure framing. Boardwalk system also includes transverse deck planks, timber railings, and timber curbs.
- B. Foundation - Substructures shall be pan-type footings with adjustable legs. Footing design shall be suitable for the soil conditions at the site. Contractor is responsible for making site investigations as required to determine appropriate design parameters for the site soil conditions.
- C. Steel
 - 1. Structural steel connecting hardware shall conform to ASTM A36.
 - 2. Structural steel tubes shall meet ASTM A500, Grade B.
 - 3. Post-fabrication structural steel framing and hardware shall be hot-dipped galvanized to ASTM A123.

4. Welding, when required, shall meet the requirements of AWS D1.1.
5. All fasteners used in structural steel connections shall be hot-dipped galvanized meeting ASTM A153.

D. Decking

1. Acceptable decking includes pressure treated and composite decking.
 - a. Pressure treated decking shall be 5/4" or thicker No. 1 Southern Pine.
 - b. Composite decking shall be MoistureShield, Vantage Collection, or equal.
 - c. All decking shall be secured with galvanized or stainless steel screws.

E. Railing

1. Railing system shall meet the requirements of the Wisconsin Building Code. Acceptable materials include pressure treated lumber, composite lumber, or commercial grade metal railing system. Railing shall comply with Section SPS 362.1015 of the Wisconsin Commercial Building Code.

F. Structural Lumber

1. Structural lumber shall be minimum 2" nominal thickness.
2. Structural dimensional lumber shall be No. 2 Southern Pine or better. Lumber shall be graded in accordance with National Design Specifications for Wood Construction. Solid sawn lumber shall conform to the requirements of the grading rules agency. A grading agency certification is required on all timber material.
3. All wood shall have Micronized Copper Azole (MCA) preservative treatment meeting AWPA Standard U1. Boardwalk framing and posts shall conform to Use Category UC4A with a minimum retention of 0.15 pounds per cubic foot. Decking and railings shall conform to Use Category UC3B with a minimum retention of 0.06 pounds per cubic foot. Coat cut ends of treated lumber with a preservative treatment.
4. The moisture content of all lumber shall not exceed 19% at the time of installation.
5. Jobsite storage of all wood products shall protect wood materials from damage due to the elements. No warped lumber shall be used in the construction of the boardwalk.
6. All fasteners used in treated lumber shall be corrosion resistant and shall comply with the Wisconsin Building Code.

2.02 DESIGN REQUIREMENTS

- A. Structural design of the boardwalk shall be completed by a professional engineer registered in the State of Wisconsin.

- B. All structural lumber shall be designed in accordance with the National Design Specifications for Wood Construction, current edition and the Wisconsin Building Code.
- C. Design Loads:
 - 1. Boardwalk superstructure shall be designed for a minimum uniform live load of 60 pounds per square foot.
 - 2. All railing systems shall be designed to meet the requirements of the Wisconsin Building Code and shall resist a single concentrated load of 200 pounds applied in any direction at any point on the rail system to produce the maximum load effect on the element being considered. The railing system shall be designed and to transfer this load through the supports to the boardwalk structure.
 - 3. Substructures shall be designed to resist lateral displacement from wind or water and shall be securely attached to the superstructure. Each adjustable leg or pile leg used for the boardwalk substructure shall be designed to support a minimum uniform live load of 100 pounds per square foot on the boardwalk.
- D. Layout - Layout of the new boardwalk shall generally match the existing boardwalk layout.
- E. Adjustment - Legs supporting the boardwalk framing shall be adjustable to allow future adjustment as required to level the boardwalk. Boardwalk slopes and surfaces shall be ADA compliant with a max running slope of 5 percent including the slope of transition sections at each end of the boardwalk.

2.03 SUBMITTAL REQUIREMENTS

- A. Submit shop drawings and structural calculations for the complete boardwalk system prior to beginning fabrication. Shop drawings shall include all details necessary for the fabrication and installation of the boardwalk structures. Details of individual fabricated pieces are not required. Drawings shall have cross-referenced details and sheet numbers.
- B. Structural calculations shall include both superstructure and substructure design calculations.
- C. Shop drawings and structural calculations shall be stamped by a licensed professional engineer in the State of Wisconsin and shall be in accordance with recognized engineering practices and principles.
- D. Submit inspection and maintenance procedures for the boardwalk system.

PART 3—EXECUTION

3.01 INSTALLATION

- A. Lumber - All lumber and timber shall be cut straight, with square ends, and have opposite surfaces parallel unless otherwise specified in drawings or specifications. Workmanship shall be first class throughout. Provide proper pre-drilling of holes for screws, nails, spikes, lags, or bolts where necessary to avoid splitting of timber. Wood shall be handled with care. Chains, peavies, cant hooks, and other pointed tools that would burr, blemish, penetrate, or permanently deform the wood shall not be used. Rope, rubber, or fabric slings only shall be used for handling lumber.
- B. The manufacturer shall provide an erection procedure to the Contractor and all other pertinent information needed to install the boardwalk structures.
- C. Boardwalk slopes and surfaces shall be ADA compliant with a max running slope of 5 percent including the slope of transition sections at each end of the boardwalk.

3.02 MAINTENANCE

- A. Contractor shall return to the project site to adjust the legs of the boardwalk system as necessary to maintain boardwalk where legs have settled or heaved at least two times after substantial completion, based on the following schedule:
 - 1. During the first month of May following substantial completion date (May 2021).
 - 2. During the second month of May following substantial completion date (May 2022).
- B. Contractor shall inspect decking and railing during the maintenance visits and shall replace any defective boards as necessary during the maintenance period.

3.03 METHOD OF MEASUREMENT

- A. Boardwalk will be measured along the centerline by the linear foot, acceptably completed.

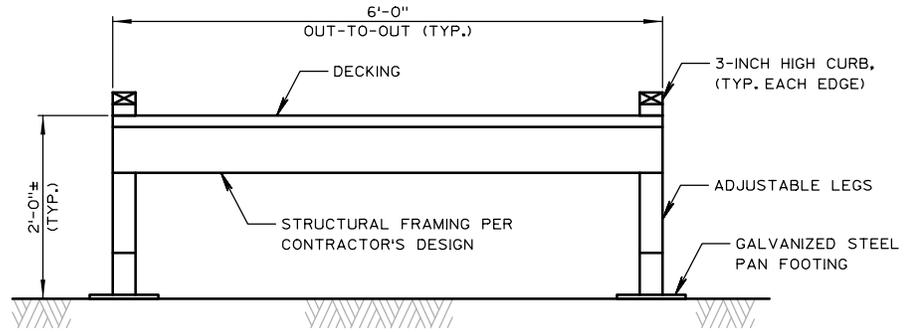
3.04 BASIS OF PAYMENT

- A. Measured quantities of Boardwalk will be paid for at the contract unit price. Payment is full compensation for designing, manufacturing, transporting and erecting the boardwalk.

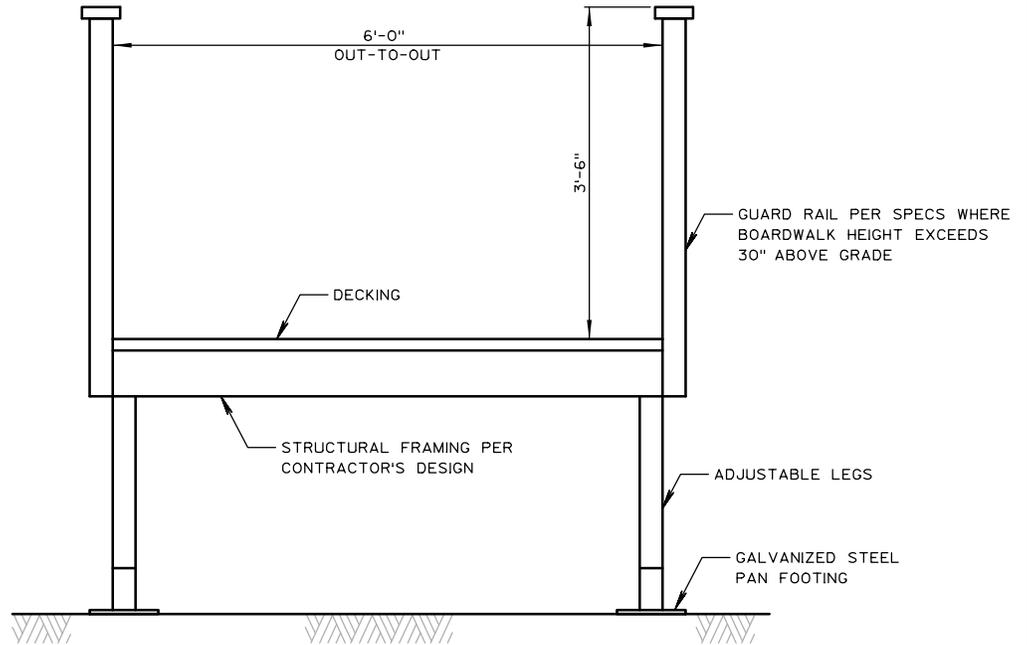
END OF SECTION

Section 32 34 13-5

4311.002/091620



BOARDWALK - TYPICAL SECTION



BOARDWALK WITH RAILING - TYPICAL SECTION

GENERAL NOTES:

1. BOARDWALK SYSTEM SHALL BE DESIGNED BY CONTRACTOR OR CONTRACTOR'S BOARDWALK SUPPLIER BASED ON THE DESIGN REQUIREMENTS STATED IN THE FABRICATED BOARDWALK SPECIFICATION.
2. TYPICAL SECTIONS ON THIS SHEET ARE INTENDED TO SHOW OVERALL DIMENSIONS AND CONFIGURATION ONLY. DRAWING IS NOT INTENDED TO REPRESENT A SPECIFIC PROPRIETARY STRUCTURAL SYSTEM.
3. NEW BOARDWALK SYSTEM SHALL GENERALLY MATCH THE EXISTING BOARDWALK LAYOUT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS AS REQUIRED TO DETERMINE LAYOUT DIMENSIONS OF THE NEW BOARDWALK SYSTEM.

BOARDWALK TYPICAL SECTIONS
DANE COUNTY PARKS DIVISION
TOKEN CREEK COUNTY PARK, DEFOREST, WI

