



**Request for Proposal
 Splash Pad Design and Permitting/Playground Equipment
 City of Troy, IL**

BID RESPONSES MUST BE RECEIVED BY: 10:00am local time on Thursday, July 7, 2022

The City of Troy seeks a qualified site contractor for construction of Serenade Park Improvements.

Please submit any questions regarding this bid in writing to the Director of Public Works, Robert Hancock via email to: tom.cissell@oatesassociates.com

All addenda will be posted on: www.troyil.us

MAILING INSTRUCTION: Print or type Bid Title and Due Date on the lower left hand corner of the envelope or package. Delivered **SEALED BIDS** must be received in the Administration Office prior to **10:00am on Thursday, July 7, 2022**. Bids will be opened by the Purchasing Manager at the location listed below.

RETURN BID TO: City of Troy Public Works
 Attn: Tom Cissell
 116 E. Market St.
 Troy, IL 62294

By signing this cover page, the bidder shall hereby declare understanding, agreement and certification of compliance to provide the items and/or services, at the prices quoted, in accordance with all requirements and specifications contained herein and the Terms and Conditions. In addition, the bidder shall further agree that upon receipt of an authorized purchase order from the City of Troy or when a Contract Resolution is signed and issued by an authorized official of the City of Troy, a binding contract shall exist between the bidder and the City of Troy.

SIGNATURE REQUIRED / RETURN WITH BID

LEGAL NAME OF ENTITY/INDIVIDUAL FILED WITH IRS FOR THIS TAX ID NO.	DOING BUSINESS AS (DBA) NAME
MAILING ADDRESS	
CITY, STATE, ZIP CODE	
CONTACT PERSON	EMAIL ADDRESS
PHONE NUMBER	FAX NUMBER
TAXPAYER ID NUMBER (TIN)	TAXPAYER ID (TIN) TYPE (CHECK ONE) _____ FEIN _____ SSN
VENDOR TAX FILING TYPE WITH IRS (CHECK ONE) ___ Individual/Sole Proprietor ___ C Corporation ___ S Corporation ___ Partnership ___ LLC, Class _____ Other _____	
AUTHORIZED SIGNATURE	DATE
PRINTED NAME	TITLE

The City of Troy reserves the right to accept or refuse any or all bids.

CITY OF TROY, ILLINOIS
GENERAL TERMS AND CONDITIONS OF BIDDING

1. **Opening Location:** *Sealed proposals will be received at City of Troy Municipal Building, 116 E. Market. St., Troy, IL 62294, until the proposal closing date and time indicated above.*
2. **Opening of advertised proposals:** *The vendor and public are invited, but not required, to attend the opening of proposals. No decision related to an award of a contract or purchase order will be made at the opening.*
3. **Submittal of Proposals:** *Proposals must be submitted in a sealed envelope identified with the bid title and date of closing on the outside. Facsimile, telephone and email proposals will NOT be considered. Proposals will not be accepted after the due date and time.*
4. *All proposals shall be submitted FOB Destination Troy, Illinois 62294, freight prepaid (unless otherwise stated).*
5. **Prices Bid:** *Give unit price, extended total or both if applicable. Price must be stated in units of quantity specified in the bidding specifications. In case of discrepancy in computing the amount of the Bid, the unit price of the Bid will govern. Each item must be bid separately and no attempt is to be made to tie any item or items in with any other item or items.*
6. **Taxes:** *Do NOT include Federal Excise Tax or Sales and Use Tax in the bid prices, as the City is exempt from them by law. Tax Exemption Certificate will be furnished if required.*
7. **Estimated Quantities:** *The estimated quantities indicated in this Request for Proposal represent anticipated requirements only. The right is reserved to exceed or diminish these estimates.*
8. **Bid Forms, Variances, and Alternates:** *Bids must be submitted on attached City bid forms, although additional information may be attached. Bidders must indicate any variances from the City requested specifications and/or terms and conditions, on the Affidavit of Compliance. Otherwise, bidders must fully comply with the City requested specifications and terms and conditions. Alternate Bids may or may not be considered at the sole discretion of the City of Troy.*
9. **“Or Equal” Interpretation:** *When a particular manufacturer’s name or brand is specified along with the words “or equal”, Quotations will be considered on other brands or the product of other manufacturers. On all such Quotations the bidder shall indicate clearly the product (brand and model number) on which he is bidding, and shall supply a sample or sufficient data in detail to enable an intelligent comparison to be made with the particular brand or manufacturer specified. Catalog cuts and technical descriptive data shall be attached to the original copy of the quote where applicable. Failure to submit the above information may be sufficient grounds for the rejection of quote.*
10. **Withdrawal of Bids:** *Bids or proposals may be revised, modified, or withdrawn by the bidder at any time prior to opening. Any such revision, modification, or withdrawal shall be in writing. After the bids are opened, they shall be irrevocable for the period sixty (60) days. Bids or proposals may not be withdrawn or revised after opening unless specified in the RFP.*
11. **Clarification and Addenda:** *Each bidder shall examine all Bid documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries or suggestions, concerning interpretation, clarification, or additional information pertaining to the Request for Proposal shall be made through the Administration Office in writing or through email. The Administration Office shall not be responsible for oral interpretations given by any City employee, representative, or others. The issuance of written addenda is the official method whereby interpretation, clarification, or additional information can be given. It shall be the responsibility of each bidder, prior to submitting their Bid, to contact the Administration Office at phone number 618-667-9924 or jkeeven@troyil.us, to determine if addenda were issued and to make such addenda a part of their Bid. Any and all addendums will be posted on the City’s web site (www.troyil.us) under Current Bid Opportunities.*
12. **Contract Forms:** *Any agreement, contract, or purchase order resulting from the acceptance of a Bid shall be on forms either supplied by or approved by the City.*
13. **Reserved Rights:** *The City reserves the right to make such investigations as it deems necessary to make the determination of the bidder’s responsiveness and responsibility. Such information may include, but shall not be limited to: current financial statement, verification of availability of equipment and personnel, and past performance records.*

14. **The Right to Audit:** *The bidder agrees to furnish supporting detail as may be required by the City to support charges or invoices, to make available for audit purposes all records covering charges pertinent to the purchase, and to make appropriate adjustments in the event discrepancies are found.*
15. **Applicable Law:** *All applicable laws and regulations of the State of Illinois and the City will apply to any resulting agreement, contract, or purchase order. Further, any and all disputes arising out of and/or related in any way to this RFB process or any contract executed after bid acceptance. and/or the work at issue which is the subject of this RPB, shall be filed exclusively in the Circuit Court for the Third Judicial Circuit, Madison County, Illinois.*
16. **Right to Protest:** *Protestors shall seek resolution of their complaints initially with the City Administration Office. Any protest must state the basis upon which the solicitation or award is contested and shall be submitted within ten (10) calendar days after such aggrieved person knew or could have reasonably been expected to know of the facts giving rise thereto.*
17. **Quality Guaranty:** *If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the Bidder shall refund to the City any money which has been paid for same. The bidder will be responsible for any and all costs and attorney fees in the event the bidder defaults and court action is required.*
18. **Quality Terms:** *The City reserves the right to reject any or all materials if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.*
19. **No-Bid:** *In the event you are unable to quote on this requirement, please return the "No-bid Response Form", on or before the bid closing date. Please indicate the reason(s) you are unable to participate in this solicitation.*
20. **Bid Tabulation:** *Bidders may request a copy of the bid tabulation of the Request for Bid through the City's Administration Office.*
21. **Expenses:** *All expenses for making Proposals to the City of Troy are to be borne by the bidder.*
22. **Collusion:** *By offering a submission to this Request for Bid, the bidder certifies the bidder has not divulged, discussed, or compared the Bid with other bidders and has not colluded with any other bidder or parties to this RFB whatsoever. Also, the bidder certifies, and in the case of a joint Bid, each party thereto certifies as to their own organization, that in connection with this RFB:
 - a. *Any prices and/or cost data submitted have been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices and/or cost data, with any other bidder or with any competitor.*
 - b. *Any prices and/or cost data for this Bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the scheduled opening directly or indirectly to any other bidder or to any competitor.*
 - c. *No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a Bid for the purpose of restricting competition.*
 - d. *The only person or persons interested in this Bid, principal or principals are named therein and that no person other than therein mentioned has any interest in this Bid or in the contract to be entered into.*
 - e. *No person or agency has been employed or retained to solicit or secure the contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee exempting bona fide employees or established commercial agencies maintained by the Purchaser for the purpose of doing business.**
23. **Liability and Indemnity:**
 - a. *In no event shall the City be liable to the Contractor for special, indirect, or consequential damages, except those caused by the City's gross negligence or willful or wanton misconduct arising out of or in any way connected with The RFB process or any contract executed after bid acceptance. The maximum liability of the City shall be limited to the amount of money to be paid or received by the City under any contract executed after bid acceptance.*
 - b. *The Contractor shall defend, indemnify and save harmless the City, its elected or appointed officials, agents and employees from and against any and all liability, suits, damages, costs (including attorney fees), losses, outlays and expenses from claims in any manner caused by, or allegedly caused by, or arising out of, or connected with the RFP process or any contract executed after bid acceptance, including, but not limited to, claims for personal injuries, death, property damage, or for damages from the award of this contract to Contractor.*

- c. *The Contractor shall indemnify and hold the City harmless from all wages or overtime compensation due any employees in rendering services pursuant to any contract executed after bid acceptance, including payment of reasonable attorneys' fees and costs in the defense of any claim made under the Fair Labor Standards Act, the Illinois Prevailing Wage Law or any other federal or state law.*
24. **Bid Information is Public:** *All documents submitted with any bid or proposal shall become public documents and subject to Illinois State Statute 5 ILCS140/, which is otherwise known as the "Illinois Sunshine Law". By submitting any document to the City of Troy in connection with a bid or proposal, the submitting party recognizes this and waives any claim against the City of Troy and any of its officers and employees relating to the release of any document or information submitted. Each submitting party shall hold the City of Troy and its officers and employees harmless from any claims arising from the release of any document or information made available to the City of Troy arising from any bid opportunity.*
25. **Authorized Product Representation:** *The successful bidder(s) by virtue of submitting the name and specifications of a manufacturer's product will be required to furnish the named manufacturer's product. By virtue of submission of the stated documents, it will be presumed by the City that the bidder(s) is legally authorized to submit and the successful bidder(s) will be legally bound to perform according to the documents.*
26. **Regulations:** *It shall be the responsibility of each bidder to assure compliance with OSHA, EPA, Federal, State of Illinois, and City rules, regulations, or other requirements, as each may apply.*
27. **Awards:**
- a. *Unless otherwise stated in the Request for Proposal, cash discounts for prompt payment of invoices will not be considered in the evaluation of prices. However, such discounts are encouraged to motivate prompt payment.*
- b. *As the best interest of the City may require, the right is reserved to make awards by item, group of items, all or none, or a combination thereof; to reject any and all Bids or waive any minor irregularity or technicality in Bids received.*
- c. *Awards will be made to the Bidder whose Bid (1) meets the specifications and all other requirements of the Request for Proposal and (2) is the lowest and best Bid, considering price, delivery, responsibility of the bidder, and all other relevant factors.*
28. **Termination of Award:** *Any failure of the bidder to satisfy the requirements of the City shall be reason for termination of the award. Any Bid may be rejected in whole or in part for good cause when in the best interest of the City.*
29. **Budgetary Constraints:** *The City reserves the right to reduce or increase the quantity, retract any item from the Bid, or upon notification, terminate entire agreement without any obligations or penalty based upon availability of funds.*
30. **Insurance:** *The city shall require all contractors performing public works projects or performing work on city property in connection with a contract or purchase order, to maintain insurance of the types and with limits of liability not less than those set out below at the contractor's expense during the term (including the warranty period) of the purchase order from insurers reasonably acceptable to the city covering items, risks and operations required to fulfill the contract or purchase order.*
- a. *Such policies shall name the City of Troy as an additional named insured with limits of liability.*
- i. **Workers' compensation:** *Insurance that the contractor is obliged by law to carry that covers all of contractor's employees performing work under this purchase order ("workercompensation")*
- ii. **Employer's liability insurance:** *Employer's liability insurance with a minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate. Such insurance shall protect the city as an alternate employer against claims asserted against the contractor by the contractor's workers as "borrowed servants," statutory employees or maritime employees ("employer' liability")*
- iii. **Commercial or comprehensive general liability insurance:** *Commercial or comprehensive general liability insurance, including contractual liability coverage, with a minimum limit of \$2,000,000 per occurrence/\$5,000,000 aggregate. .*
- iv. **Automobile liability insurance:** *Automobile liability insurance with a combined bodily injury and property damage minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate, for all owned and leased vehicles.*
- b. *Builders Risk Insurance for contracts involving unoccupied structures. The Contractor shall secure All Risk Builder's Risk Insurance. Unless specifically authorized by the City, the amount of such insurance shall not be less than the*

total contract price. The policy shall name as insured the Contractor and the City of Troy.

- c. *Subcontracts: in case any or all of this work is sublet, the contractor shall require the subcontractor to procure and maintain all insurance required in subparagraphs (a) and (b) hereof and in like amounts. The contractor shall require any and all subcontractors with whom it enters a contract to perform work on this project to protect the City of Troy through insurance against applicable hazards or risks and shall, upon request from the City, provide evidence of such insurance.*

31. **Requirement for Bid Security:** *Bid Security shall be required for all formal Bids, requiring City Council approval, as set forth in the City of Troy's Purchasing Policy, for the purchase of Capital Improvement items, and City projects entailing engineering or construction. Bid security shall be a bond provided by a surety company authorized to do business in the State of Illinois, or the equivalent in cash, cashier's check or otherwise supplied in a form satisfactory to the City of Troy in an amount equal to 10% of the total amount of the bid. Failure to provide security, as set forth shall result in the City's rejection of bid.*
32. **Withdrawal of Bids:** *After the bids are opened, they shall be irrevocable for the period of up to sixty (60) days from bid opening date. If a bidder is permitted to withdraw its bid before the opening of bids, no action shall be taken against the bidder or the bid security.*
33. **Correction or Withdrawal of Bids:** *Correction or withdrawal of inadvertently erroneous bids after bid opening, or cancellations of awards or contracts based on such bid mistakes shall not be permitted and shall mandate forfeiture of Bid Performance Security to the City of Troy.*
34. **Return of Bid Security:** *The City shall return the security bond to bidders who do not receive the bid. The City shall hold the security bid bond of the awarded bidder until Capital Improvement Project is delivered to the City of Troy or a 100% percent performance bond is issued to the City for awarded contractual services or project construction.*
35. **CONTRACT PERFORMANCE AND BOND PAYMENT:** *When a bid is awarded for contractual services or construction, a bond shall be delivered to the City of Troy and shall become binding on the parties upon the execution of the contract; such bond shall be a performance labor and materials bond satisfactory to the City of Troy, executed by a surety company authorized to do business in the State of Illinois or otherwise secured in a manner satisfactory to the City of Troy, in the amount equal to one hundred percent (100%) of the price specified in the contract. The requirement may be modified upon recommendation of the City Administration, City Council and approved by the City Attorney.*
36. **CONTRACT TERM:** *The term of this contract shall be for the duration and completion of this project.*
37. **COMPLETION TIME:** *The Contractor will be required to commence work under this contract within **Ten (10)** calendar days after the date of receipt by him of the Notice to proceed, to prosecute said work diligently and to complete the work by **May 26th, 2023**. The Contractor is required to provide a sufficient work force and construction management so that no time extension will be granted for delay of contract award, weather conditions, utility conflicts, excavation encountering rock, changing excavation quantities, or Contractor scheduling of equipment or construction progress. The Contractor shall have a superintendent or a responsible foreman on the project at all times when construction is in progress. Any claim for extension of time shall be made in accordance with the City of Troy General Conditions and Technical Specifications. The project is not considered completed until final acceptance by the City of Troy.*

SCOPE OF WORK

Project proposals shall include all labor, material, time, equipment, insurance, etc. for a complete Scope of Work outline below and per plans, specs, and other referenced documents listed in this bid set. Scope of Works consists of the following work items (which also includes all necessary and incidental materials, equipment and work required for the completed system in proper working condition):

1. SITE DEVELOPMENT.

- a. Description: Installation and construction of site improvements per the attached drawings to include, but not limited to the following:
 - i. Grading and Drainage
 - ii. Storm Sewer Pipe
 - iii. Sanitary Sewer Pipe and connections to existing
 - iv. Waterline pipe, metering, and connection
 - v. Pavements including asphalt parking lot and concrete sidewalk
 - vi. Foundations including foundations for building and open shelter. Any footing required for alternative bid items to be included in each said alternate.
 - vii. Splash Pad/Water Play Area – refer to description below.
 - viii. Nature based Play Area – refer to description below.
 - ix. Pre-Engineered Building – refer to description below.
 - x. Landscaping including lawn seed/sod, native plantings, rpm trees, shrubs/grasses, and ornamental/shade trees.

2. SPLASH PAD/WATER PLAY AREA.

- a. Description: Installation and construction of splash pad/water play area to consist of embedded, powder coated, ground spray features per the attached drawings.
- b. Equipment: Recirculation system including cartridge filter skid, chemical treatment system, feature skid, distribution manifold, prefabricated water reservoir, step pad activator, control panel, collector box, and rain diverting waste valve box will be provided, shipped to site, by LSI (Landscape Structures, Inc.) under a separate contract, refer to attached drawings.
- c. Design and Construction Documents: Will be provided by LSI (Landscape Structures, Inc.) under a separate contract. LSI will provide contractor with signed and sealed drawings for inclusion into Application for swimming facility construction permit to IDPH.
- d. System Startup and Training: Will be provided by LSI (Landscape Structures, Inc.) under a separate contract.
- e. Contractor: Installation of splash pad/water play area equipment and associated concrete decking to be performed by a IDPH pre-qualified contractor, pre-qualified contractor will be responsible for obtaining IDPH permit for splash pad.

3. NATURE BASED PLAY FEATURES:

- a. Description: Installation of Nature Inspired Play Area to consist of freestanding nature inspired play features constructed of natural wood products or FRC (fiberglass reinforced concrete) molded to emulate natural wood.
- b. Equipment: Play equipment including log steppers, crawl tunnel, rock climber, and log balance beam will be provided, shipped to site, by LSI (Landscape Structures, Inc.) under a separate contract, refer to attached drawings.
- c. Playground Surfacing: Poured-in-Place rubber surfacing will be provided and installed by LSI (Landscape Structures, Inc.) under a separate contract.

4. PRE-ENGINEERED SHELTER/RESTROOM BUILDING.

- a. Description: This work shall include furnishing the sealed architectural, structural, mechanical, and electrical plan sets and the furnishing and installation of the structural, mechanical, and electrical building components as a complete, pre-designed restroom building package as shown on drawings and as

specified herein. Building shall consist of an approximate 12'-8" x 16'-8" CMU block building containing an 8'-8" x 8'-4" family restroom and mechanical room with a 16'-0" x 16'-8" open wood shelter.

- b. Basis of Design: Building design based on drawings and specifications provided by:
 - i. Supplier: Romtec, Inc.
 - ii. Address: 18240 North Bank Road, Roseburg, OR 97470
 - iii. Phone: 541-496-0801
 - c. Substitutions: Alternate methods of delivery will be considered including contractor designed and constructed as long as building meets the requirements set forth in the contract documents
5. Alternative Items:
- a. Sidewalk and Boardwalk (Along Bradley R. Smith Drive) – Installation and construction of sidewalk and boardwalk along Bradley R. Smith Drive as shown and detailed in the plans and specifications
 - b. Fishing Dock and Gangway – Design, Engineering, and installation of the fishing dock and gangway as shown and detailed in the plans and specifications. Plans to be sealed by licensed engineer in the State of Illinois and should be designed in accordance with all local codes and standards.
 - c. Landscaping – RMP Trees – Installation of RPM trees as shown and detailed in the plans and specifications.
 - d. Landscape Maintenance – Native Plantings (2 yr. Option). – Provide 2-year maintenance of native plantings after initial 1 year maintenance period. Refer to plans and specifications

City of Troy, IL

Bid Form

SUBMITTED BY: _____

(Company Name)

The pricing information is hereby provided in accordance with the Terms and Conditions of this **Request for Bid**. *Provide the cost for each bid item listed.*

Bid item	Description	Cost
1	Site Development	
	<u>Total Base Bid Items</u>	
Alt. 1	Bradley R Smith Drive Sidewalk and Boardwalk	
Alt. 2	Fishing Dock and Gangway	
Alt. 3	RPM Trees	
Alt. 4	Native Seed Maintenance (2 year option)	

Onsite Visit Made by: NOT REQUIRED	Date	
Upon notice to proceed, contractor will complete the project in (calendar days)		
Bid Security enclosed: (10% of total bid)		

The City of Troy reserves the right to accept or refuse any or all bids. Each Bid will be scored based on the following criteria: Play Value of Splashpad Design (25%), Play Value of Nature Based Playground (20%), Quality of Materials (20%), Cost (15%), Project Experience/References (15%), and Schedule (5%).

RETURN WITH BID

VENDOR REFERENCES:

The proposal must include the following information:

1. List at least three (3) references for whom you have performed similar products/services for other public entities, local governments or private companies.

Company Name: _____ Address: _____

_____ Contact _____

Person: _____

Telephone #: () _____

Company Name: _____ Address: _____

_____ Contact _____

Person: _____

Telephone #: () _____

Company Name: _____ Address: _____

_____ Contact _____

Person: _____

Telephone #: () _____

2. State how long you have been operating under your present company name?

3. Have you ever defaulted on a contract? _____

If so, where and why? _____

RETURN WITH BID

Affidavit of Compliance
Serenade Park Improvements

To be submitted with Vendor's proposal.

_____ We DO NOT take exception to the RFP documents/requirements.

_____ We TAKE exception to the RFP Documents/Requirements as follows:

I have carefully examined the Request for Proposal and agree to abide by all submitted pricing, delivery, terms and conditions of this Quotation unless otherwise stipulated herein.

Company Name: _____

By: _____
(Authorized person's signature) (Print name and title of signer)

Company Address: _____

Telephone Number: _____ Federal Tax ID No.: _____

ADDENDA

Bidder acknowledges receipt of the following addendum:

Addendum No. _____

Addendum No. _____

Addendum No. _____

RETURN WITH BID

City of Troy
“No-Bid Response Form”
Serenade Park Improvements

COMPLETE AND RETURN THIS FORM ONLY IF YOU DO NOT WANT TO SUBMIT A PROPOSAL RESPONSE.

If you do not wish to respond to this proposal request, but would like to remain on the City of Troy vendor list, please fill out this form and return to the Administration Office by email.

RETURN TO: Robert Hancock, Public Works Director
Email: rhancock@troyil.us

We the undersigned have declined to bid on your proposal for the following reasons:

- Insufficient time to respond to invitation for bid.
- We do not offer this product/s or equivalent.
- Unable to meet specifications.
- Unable to meet insurance requirements.
- Our schedule would not allow us to perform.
- Specifications are to “tight”, i.e. geared towards one brand or manufacturer.
- Specifications unclear.
- Other (please specify below).

Comments: _____

VENDOR INFORMATION:

Company Name: _____
Signature and Title: _____
Phone #: _____
Email: _____

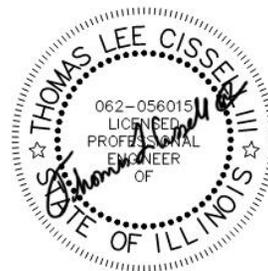
RETURN WITH BID

PROJECT MANUAL

SERENDADE PARK

SPECIAL PROVISIONS TROY, ILLINOIS

CONTRACT: General Contract



06/01/2022
EXP: 11/30/2023

BY:



Collinsville
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2200

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

Belleville
1 South Church Street
Belleville, IL 62220
618.416.4688

St. Charles
330 North Main, Suite 201
St. Charles, MO 63301
636.493.6277

**BID DOCUMENTS
DATE: June 1, 2022**

SPECIAL PROVISIONS

**CITY OF TROY
SERENADE PARK
TROY, ILLINOIS**

INDEX TO SPECIAL PROVISIONS

SHOP DRAWINGS	2
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT	2
MEASUREMENT AND PAYMENT	3
EMBANKMENT.....	3
TRENCH BACKFILL	4
STONE RIPRAP, CLASS A3	4
PROCESSING MODIFIED SOIL, THICKNESS SPECIFIED	4
INCIDENTAL HOT-MIX ASPHALT SURFACING	5
PORTLAND CEMENT CONCRETE SIDEWALK	5
EXPANSION JOINTS	5
DETECTABLE WARNINGS.....	6
PIPE CULVERTS, CLASS A, TYPE AND DIAMETER SPECIFIED.....	7
SANITARY SERVICE SEWERS.....	7
WATER SERVICE LINE	7
TELESCOPING STEEL SIGN SUPPORT	8
PIPE BOLLARDS.....	10
PAINT PAVEMENT MARKINGS, TYPE SPECIFIED.....	10
UNDERGROUND ELECTRIC SERVICE INSTALLATION.....	10
BICYCLE RACKS	10
SIGN PANEL ASSEMBLY	11
PARKING BLOCKS	11
STATUS OF UTILITIES TO BE ADJUSTED.....	12

SPECIAL PROVISIONS

CITY OF TROY SERENADE PARK TROY, ILLINOIS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2022, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways" and the "Manual of Test Procedures of Materials" in effect on the date of the invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein and the "Standard Specifications for Water and Sewer Construction in Illinois", Adopted January 2020 which apply to and govern the construction of City of Troy Serenade Park, Troy, Illinois, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

SHOP DRAWINGS

The Contractor shall submit shop drawings of the following items according to Articles 1042.03(b) and 105.04 of the "Standard Specifications for Road and Bridge Construction":

- Bicycle Rack
- Detectable Warnings
- Precast Concrete Parking Block
- Sign Panel Assembly
- Water Pipe, Sewer Pipe, and Fittings

Submit shop drawings for review and approval to:

Mr. Tom Cissell
Oates Associates, Inc.
20 East Main Street
Belleville, Illinois 62220

A maximum of two reviews by the Engineer will be provided for each shop drawing submittal. If any additional reviews are required, the Contractor shall pay the Engineer for all costs incurred at an hourly rate of \$200. Payment for additional reviews shall be made directly to the City.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

The Contractor and Owner will be required to complete a Notice of Intent (NOI) on-line form and the Contractor's Certification Statement (attached), in compliance with the NPDES Phase II guidelines. These forms will be completed by the Engineer, prior to the pre-construction meeting. Work may commence 30 calendar days after the NOI form is submitted to the Illinois Environmental Protection Agency for the purpose of obtaining a General Construction Permit.

The Storm Water Pollution Prevention Plan, the General Permit, and the Contractor's Certification Statement must be kept on site during working hours. Compliance with this special provision shall be considered as included in the contract unit prices for the various items of work involved.

MEASUREMENT AND PAYMENT

Delete all Articles regarding "Method of Measurement" and "Basis of Payment" in the "Standard Specifications for Road and Bridge Construction".

EMBANKMENT

This work shall consist of the construction of embankments according to Section 205 of the "Standard Specifications for Road and Bridge Construction", except as modified herein.

Material, which is proposed for use by the Contractor to be used for embankment construction, must be inspected and approved by the Engineer. In order to be approved for use as embankment material, it must meet all applicable requirements of Sections 202, 203, 204, 205, and 502 of the "Standard Specifications for Road and Bridge Construction", and meet the following requirements:

1. It must fall in one of the following Highway Research Board Classifications: A-1, A-2, A-3, A-4, A-6, or A-7-6.
2. It shall have a Liquid Limit of 49 or less.
3. Any A-4, A-6, or A-7-6 material to be used as borrow for embankment construction shall not have an organic content greater than 7 percent.
4. Classification of the material for points 1 and 2 shall be determined according to the latest AASHTO Designation: M 145.
5. When tested for density in place, all soil classified as A-4 shall not contain more than 100 percent of optimum moisture content determined according to AASHTO T-99.

The outside 10 ft. of those portions of the embankment that will be permanently exposed in the completed roadway shall be constructed using native materials of a classification that will support vegetation and contain a plasticity index of 12 or greater as directed by the Engineer.

Those portions of the lime modified soil layer shall be constructed with a minimum thickness of 18 in. of "reactive" soil as defined by Article 1009.02 of the "Standard Specifications for Road and Bridge Construction".

Existing slopes steeper than 5H:1V shall be benched to provide a level surface prior to placing any fill material.

TRENCH BACKFILL

This work shall be constructed according to Section 208 of the "Standard Specifications for Road and Bridge Construction", except as modified herein:

Fine aggregate according to Article 1003.04 may be used for bedding only, except as follows: Fine aggregate will be required for trench backfill within 2 ft. of all gas mains and gas service lines that are exposed during trenching operations.

Material for trench backfill shall be coarse aggregate gradation CA 6, CA 10 or CA 18 as specified in Article 1004.05.

Trench backfill material shall be compacted according to Method 1, as specified in Article 550.07(a) of the "Standard Specifications for Road and Bridge Construction".

STONE RIPRAP. CLASS A3

This work shall consist of furnishing, transporting and placing a protective course of stone as shown on the plans, according to Section 281 of the "Standard Specifications for Road and Bridge Construction", except as modified herein.

Filter fabric for use with riprap is required and shall be installed according to Section 282 of the "Standard Specifications for Road and Bridge Construction". A fabric weight of 6 oz. / sq. yd. shall be used.

The stone riprap shall be gradation RR 3, quality designation A. The minimum thickness of riprap shall be 12 in.

This work shall include all excavation and material necessary for proper installation of the riprap. Filter Fabric will be included in the cost of this item.

PROCESSING MODIFIED SOIL. THICKNESS SPECIFIED

This work shall consist of constructing a modified soil layer composed of soil, water and lime according to Section 302 of the "Standard Specifications for Road and Bridge Construction".

The soil modifier shall consist of dry lime at the locations shown on the plans, and as directed by the Engineer. The estimated lime-to-soil (by dry weight) ratio is 5 percent.

The application of modifiers shall be accomplished by slurry placement method or with a mechanical spreader capable of applying the modifier uniformly and minimizing the airborne release of dry modifiers, or other method approved by the Engineer.

INCIDENTAL HOT-MIX ASPHALT SURFACING

This work shall consist of the preparation of the base, the application of bituminous priming material and aggregate, and the construction of a hot-mix asphalt (HMA) surface on a prepared base at the locations shown on the plans according to Section 408 the "Standard Specifications for Road and Bridge Construction."

Bituminous prime coat and prime coat aggregate are required, but will not be measured separately for payment.

This work shall include the bituminous priming material and aggregate for covering the prime coat.

PORTLAND CEMENT CONCRETE SIDEWALK

This work shall consist of constructing Portland cement concrete sidewalk at the locations shown on the plans and according to Section 420 of the "Standard Specifications for Road and Bridge Construction."

The concrete sidewalk shall be constructed at slopes that meet ADA requirements. Proposed slope may be adjusted if needed to meet ADA requirements with approval of the Engineer.

EXPANSION JOINTS

This work shall consist of constructing expansion joints in concrete sidewalk according to Articles 424.07 of the "Standard Specifications for Road and Bridge Construction" and Highway Standard 424001 except as modified herein:

Expansion joints required under Article 424.07(b) shall be preformed fiber joint filler according to Article 1051.04 of the "Standard Specifications for Road and Bridge Construction" and shall have a perforated tear off wood or plastic strip to provide a uniform 3/4 in. reservoir/channel for the required sealant.

Expansion joints required under Article 424.07(a) shall consist of preformed flexible foam expansion joint filler according to Article 1051.09 of the "Standard Specifications for Road and Bridge Construction" and shall have a pre-scored removable strip to provide a uniform 1/2 in. reservoir/channel for the required sealant.

Expansion joint filler and backer rod materials shall be a non-impregnated type that will not bond with the sealant.

Expansion joints shall be sealed with self-leveling (pour grade), or nonsag (gun) grade urethane sealant. The color of the sealant shall be limestone, unless otherwise approved by the Engineer.

DETECTABLE WARNINGS

This work shall consist of constructing detectable warning surfaces in curb ramps and other locations shown on the plans according to Articles 424.09 of the "Standard Specifications for Road and Bridge Construction" and Highway Standard 424006 and 424026, and as modified herein:

Materials shall be:

Cast-in-Place replaceable detectable warning surface panel embedded in concrete with a heavy-duty metal anchoring system by ADA Solutions, Inc., or approved equal. Panels shall consist of an exterior grade homogenous glass, carbon and fiberglass reinforced composite material which is colorfast and UV stable. Product shall incorporate an in-line truncated dome pattern.

Color shall be black.

Panel sections shall be of equal size and dimensions with no fragments unless approved by the Engineer.

Detectable warning panels shall be protected when applying curing compound to the adjoining concrete sidewalk. Any overspray on the panels shall be cleaned immediately to the satisfaction of the Engineer.

Joints between panels and around the perimeter of the panels shall be caulked with a self-leveling (pour grade), or nonsag (gun) grade urethane sealant. The color of the sealant shall be limestone, unless otherwise approved by the Engineer.

The concrete thickness under the panels shall be increased 1 inch. The subgrade shall be well-drained and properly compacted. Forms shall be positioned for proper grade, slope, and uniform slab thickness.

Detectable warning panels shall be placed as shown in the drawings and shall have visual contrast with the adjoining concrete surface. Adequate drainage shall be provided to prevent the accumulation of water and debris at the bottom of the ramp.

Panels shall be installed immediately in fresh concrete and adjusted to grade to ensure 100% surface contact with square edges of panels butted tightly together. The base of the truncated domes shall be set flush with the adjoining concrete surface. The maximum tolerance between the panels and the adjoining surface is 1/16 inch. Immediately after placement, the panels shall be checked for slope, elevation and proper grade. The concrete around the panels shall be edged with 1/8 in. radius edger and finished according to the contract specifications.

PIPE CULVERTS, CLASS A, TYPE AND DIAMETER SPECIFIED

This work shall consist of furnishing and installing pipe culverts of the required type and inside diameter at locations shown on the plans according to Section 542 of the "Standard Specifications for Road and Bridge Construction".

All pipe culverts shall be Reinforced Concrete Culvert, Storm Drain and Sewer Pipe according to Article 1042.06 of the "Standard Specifications for Road and Bridge Construction". Each pipe section shall be sealed with a preformed flexible rubber gasket. The gasket shall be confined in a recessed groove cast into the spigot of the pipe, which will hold the gasket in place when the joint is assembled, forming a watertight seal, according to ASTM C443.

SANITARY SERVICE SEWERS

This work shall consist of furnishing and installing a PVC sanitary service lateral and related components as shown on the plans and according to Section 550 of the "Standard Specifications for Road and Bridge Construction" and Division III, Sanitary Sewers, of the "Standard Specifications for Water and Sewer Construction in Illinois".

A PVC sanitary service lateral and connection to the public sewer shall be installed in compliance with requirements of the City of Troy.

An ADS Inserta Tee, or approved equal, shall be installed at the connection to the public sewer. Inserta Tee service connections shall consist of a PVC hub, rubber sleeve and stainless steel band. Connections shall be a compression fit into the cored wall of a mainline pipe. The hub shall be made from heavy-duty PVC material. Stainless steel clamping assembly shall be made from minimum 301 grade steel. Rubber sleeve and gasket, when applicable, shall meet the requirements of ASTM F477. Gaskets shall be installed by the manufacturer. The water-based solution provided the manufacturer shall be used during assembly. Pipe lube shall not be used. A watertight bell connection meeting the requirements of ASTM D3212 shall be utilized. To assure watertightness, field performance verification may be accomplished in accordance with manufacturer's recommended testing procedure. Installation shall be in accordance with manufacturer's recommended installation guidelines.

Testing and inspection of the sanitary service lateral shall be performed in accordance with Section 31 of "Standard Specifications for Water and Sewer Construction in Illinois". Do not enclose, cover, or put into service before inspection and approval. Schedule tests and inspections a least 24 hours in advance with the City of Troy. Deflection, exfiltration of air under pressure and exfiltration of water tests shall be performed. Clean dirt and superfluous material from interior of piping and flush with potable water.

WATER SERVICE LINE

This work shall consist of furnishing and installing a water service line and related components as shown on the plans and according to Section 562 of the "Standard

Specifications for Road and Bridge Construction” and Division IV, Water Distribution, of the “Standard Specifications for Water and Sewer Construction in Illinois”.

Underground copper water service pipe installation shall meet requirements of Section 40-20.06A of the “Standard Specifications for Water and Sewer Construction in Illinois” and comply with requirements of the City of Troy, including backflow prevention, materials, installation, testing, and disinfection. Use proprietary crimping tool and procedure recommended by copper pressure-seal fitting manufacturer for joints. The water service line tap and meter shall be provided by The City of Troy at no cost to the Contractor.

Terminate water service piping at building wall until building water piping systems are installed. Terminate piping with caps, plugs or flanges as required for piping material. Make connections to building water piping systems when those systems are installed. Install underground piping with restrained joints at horizontal and vertical changes in direction. Use restrained joint piping, thrust blocks, anchors, tie-rods and clamps, and other supports. Conduct piping tests before joints are covered and after concrete thrust blocks have hardened sufficiently. Fill pipeline with potable water 24 hours before testing and apply test pressure to stabilize system. Perform hydrostatic testing according to Section 41 of the “Standard Specifications for Water and Sewer Construction in Illinois”.

TELESCOPING STEEL SIGN SUPPORT

This item shall consist of furnishing and installing telescoping steel sign supports according to Sections 728, 1006, and 1093 of the “Standard Specification for Road and Bridge Construction”, except as modified herein.

Telescoping steel sign supports and sign brackets shall be coated as specified below. The color of the top coating shall be black. The coating shall be applied only after the telescoping steel sign support has been fabricated. The final product shall not contain cracks in the coating, ripples in the curved areas, not any damage due to fabrications and or shipping.

- a. Telescoping steel sign support shall be galvanized according to Articles 1093.01 and 1093.02 of the “Standard Specifications for Road and Bridge Construction”. The galvanizing method shall provide surfaces suitable for painting.
- b. Prepare all galvanized surfaces to be painted in accordance with ASTM D 6386 and the manufacturer of the coating system’s specifications. Provide a clean and suitable galvanized surface that maximizes coating system adhesion.
- c. Measure the thickness of the zinc coating after completion of surface preparation using a magnetic thickness gage to ensure sufficient galvanizing remains on the substrate to meet the requirements listed in AASHTO M 111. Correct any deficient areas to meet the requirements listed in the Standard Specifications prior to painting.

- d. All galvanized exterior surfaces visually exposed are to be coated with a urethane or triglycidly isocyanurate (TGIC) polyester powder coating to a minimum dry film thickness (DFT) of 2.0 mils. Prior to application, the surfaces to be powder coated shall be mechanically etched by brush blasting and the zinc coated substrate preheated to 230 °C (450 °F) for a minimum of one hour in a gas fired convection oven. The coating shall be electrostatically applied and cured by elevating the zinc-coated substrate temperature to a minimum of 180 °C (350 °F) in a gas-fired convection oven.
- e. Manufacturer shall certify:

Impact Resistance – With the finish surface at room temperature, subject it to a 160 inch-pound direct force by use of a Gardner variable impact tester, Model 1G-1120. Evaluate the test per ASTM D-2794.

Adhesion – Using a sharp blade, scribe a series of eight parallel cuts through the finish of the base material. Scribe another series of eight parallel cuts at a right angle to and crossing the former cuts to form 1/8 inch squares. Press a strip of pressure sensitive adhesive tape (Scotch Brand No 600) over the squares. After two minutes, remove the tape. Results must be level 4 or better as described in ASTM-3359-B.

Salt spray resistance shall be according to ASTM B-117.
Humidity Resistance shall be according to ASTM D-2247.

Weatherability – Power painted products shall meet the minimum weatherability standards as set forth in ASTM 336.

- f. Prior to painting, the Contractor shall provide the Engineer product data sheets including Material Safety Data Sheets on preparation material, prime materials and finish materials. Product data sheets shall include manufacturer recommendations for surface preparation and paint application. The contractor shall also furnish manufacturer's certification attesting that the materials supplied conform to the requirements of these specifications.
- g. Prior to shipment, telescoping steel sign supports shall be protected so that shipping does not cause damage to the painted surface. The Engineer will reject items that exhibit paint damage upon delivery. After delivery, the Contractor shall take care not to damage the painted surface. The Contractor shall replace, at their expense, any painted items that exhibit paint damage as directed by the Engineer.

PIPE BOLLARDS

This work shall consist of furnishing, installing and painting bollards at the locations shown on the plans as directed by the Engineer.

Steel pipe shall be Schedule 40. Installation shall be in-ground and the steel pipe shall be filled with concrete and rounded-off to form a smooth convex cap.

This work shall include all primer, paint, concrete and foundation work as detailed on the plans.

PAINT PAVEMENT MARKINGS. TYPE SPECIFIED

This work shall consist of furnishing and applying pavement marking according to Section 780 of the "Standard Specifications for Road and Bridge Construction".

This work shall include application of two coats of paint for all paint pavement markings.

Glass beads are not required.

UNDERGROUND ELECTRIC SERVICE INSTALLATION

This work shall consist of furnishing and installing an underground electrical service installation.

The direct buried conduit system for the new 200-amp single phase electric service as shown on the plans shall be in accordance with Ameren Illinois "Specifications for Customer-Installed Underground Distribution Facilities (Non-Residential)" and the City of Troy "Electric Service Installation Guide".

All conduits for primary voltage conductors shall be electrical grade, rigid, nonmetallic, gray PVC, Schedule 40 when below grade and Schedule 80 when above grade. The conduit size shall be a minimum of 2-1/2" with a minimum of 42" of cover. The backfill material shall be 1/4" minus limestone screenings where beneath proposed paved surfaces.

All conduit, wire, enclosures, meters, circuit breakers, outlets, connectors, etc. from the transformer to the building and in the building shall be provided according to the City's Building Code. The Contractor shall supply a full submittal package sealed by a professional engineer that states the materials and equipment provided will provide a full-functioning and Code compliant project.

BICYCLE RACKS

This work shall consist of furnishing and installing bike racks at locations and according to the details shown on the plans. This work shall be performed according to the "Supplemental Specifications and Recurring Special Provisions", and as specified herein.

Bike rack shall be Metro 9-bike / 3 loop rack, or approved equal, powder coated, and shall be ground mounted in accordance with manufacturers recommendations. The concrete pad requirements shall match that of the adjacent concrete sidewalk with 4 in. of aggregate base and 5 in. of concrete with welded wire fabric.

SIGN PANEL ASSEMBLY

This work shall consist of furnishing and installing sign panel assemblies at the required locations show on the plans and in accordance with applicable portions of Sections 720, 728, and 729 of the “Standard Specifications for Road and Bridge Construction”, the Manual on Uniform Traffic Control Devices and as directed by the Engineer. This work shall include sign panels, complete with sign faces, legend, supplemental panels, posts, mounting hardware, and appurtenances.

The backs of all sign panels shall be painted black to match the sign post.

Sign panel assemblies will be measured as each and shall include the post, all sign panels, supplemental panels, and appurtenances.

PARKING BLOCKS

This work shall consist of furnishing and installing precast concrete parking blocks at the required locations and according to the construction details shown on the plans.

Material shall be precast concrete. Parking blocks shall be set two feet from the end of the parking space. Parking blocks shall be secured in place with 5/8 in. x 24 in. iron pins driven through the pavement. Pilot holes shall be drilled through concrete parking lot pavement prior to driving the iron pins.

STATUS OF UTILITIES TO BE ADJUSTED

<u>NAME AND ADDRESS OF UTILITY</u>	<u>TYPE</u>	<u>LOCATION</u>	<u>ESTIMATED DATE OF COMPLETION</u>
<u>City of Troy (Water & Sewer)</u> 116 East Market Street Troy, IL 62294 Contact Person: Rob Hancock Phone: (618) 667-9924	Water	Existing 12" main extends along the ROW on the east side of SRA Bradley R Smith Drive. A 2" service line to the restroom facility is proposed.	Tap & meter for new service to be completed by City.
	Sewer	Existing 10" main extends along the ROW on the east side of SRA Bradley R Smith Drive. An 8" service line to the restroom facility is proposed.	No main adjustments anticipated
<u>Ameren</u> 2600 North Center Maryville, IL 62062 Contact Person: Penny Cunningham Phone: (618) 346-1275	Gas	No known conflicts.	No known conflict
	Electric	The existing underground electric line is located along the east side of the ROW on SRA Bradley R Smith Drive. An underground service line is proposed to the new restroom facilities at 1932 SRA Bradley R Smith Drive.	TBD

The above represents the best information of the Department or responsible Local Agency and is only included for the convenience of the Contractor. The applicable provisions of Section 102 and Articles 105.07, and 107.20 of the "Standard Specifications for Road and Bridge Construction" shall apply.

Underground facilities, structures and utilities have been plotted from available surveys and records. Their locations must be considered to be approximate only. It is possible there may be others, the existence of which is not presently known or shown. Such information represents only the opinion of the Local Agency and their Engineer as to the location of such utilities and is only included for the convenience of the bidder. The Local Agency and their Engineer assume no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of underground utility facilities.

If any utility adjustment or removal has not been completed when required by the Contractor's operation, the Contractor should notify the Engineer in writing. A request for an extension of time will be considered to the extent the Contractor's operations were affected.

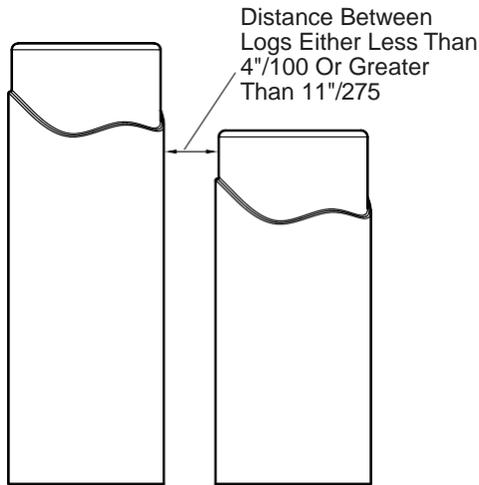
APPENDIX A

**CITY OF TROY
SERENADE PARK
TROY, ILLINOIS**

PLAYGROUND INSTALLATION INSTRUCTIONS

LANDSCAPE STRUCTURES 13 PAGES

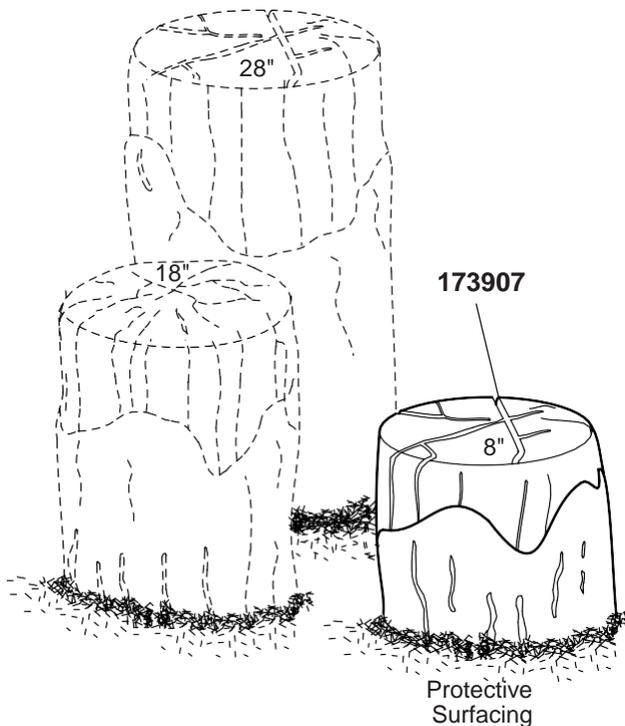
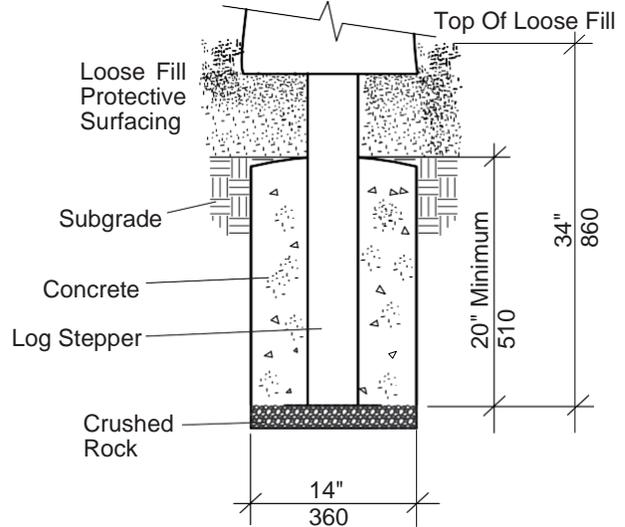
**DETAIL
LOG STEPPER
SPACING**



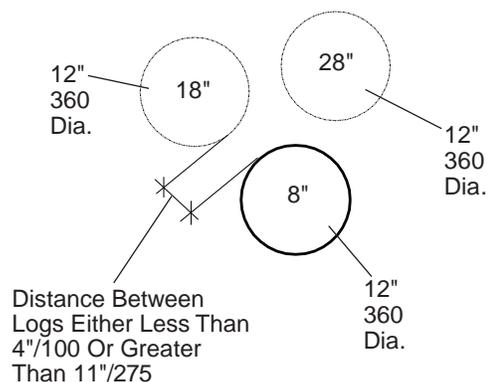
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

20070000

**DETAIL
DIRECT BURY**



**PLAN VIEW/FOOTING LAYOUT
(LAYOUT VARIES - SEE YOUR PLAN)**



Play Naturally™

173907 8" Height (Shown)
173908 18" Height
173909 28" Height

Climbers

Log Steppers

Parts List

Part#	Description	Qty.
200691	8" Log Stepper (DB), Natural.....	*
200692	18" Log Stepper (DB), Natural.....	*
200693	28" Log Stepper (DB), Natural.....	*
224345	Warning Label Package 2-12 (8" Stepper Only)....	1
183064	Label Warning.....	1
200331	Label 2-5 Yrs.....	1
200332	Label 2-12 Yrs.....	1
200333	Label 5-12 Yrs.....	1

DB = Direct Bury

* = Quantity Determined By Your Order

Specifications

Log Stepper Assy.: (Footer Post) Weldment comprised of 5" O.D. x 11 GA. (.120") wall galvanized steel tubing and $\frac{3}{16}$ " HRPO steel plate. Finish: ProShield, color specified. (Log Stepper-fully assembled) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

Installation Time: Approx. $\frac{1}{2}$ man hour each

Concrete Req.: Approx. 1.78 cu. ft. each

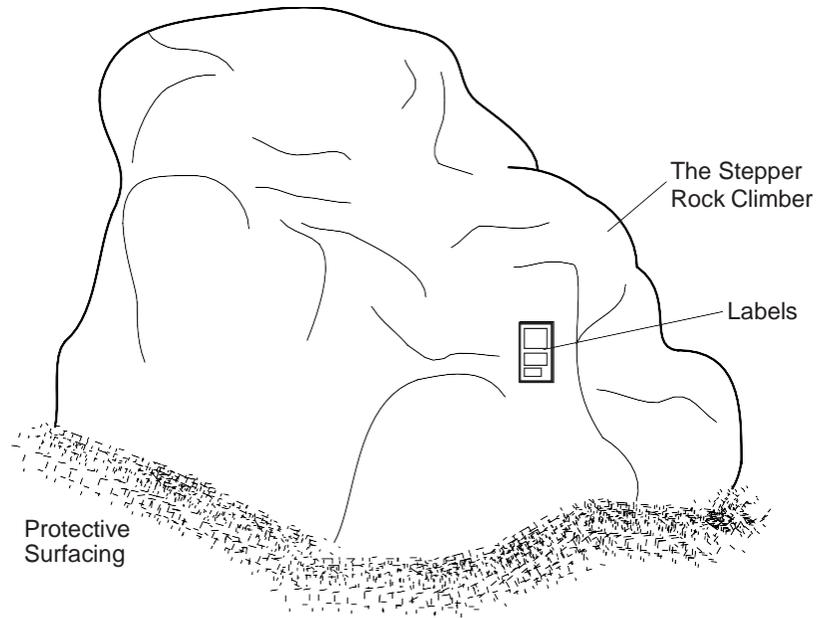
Weight: 8" - 162 lbs.

18" - 230 lbs.

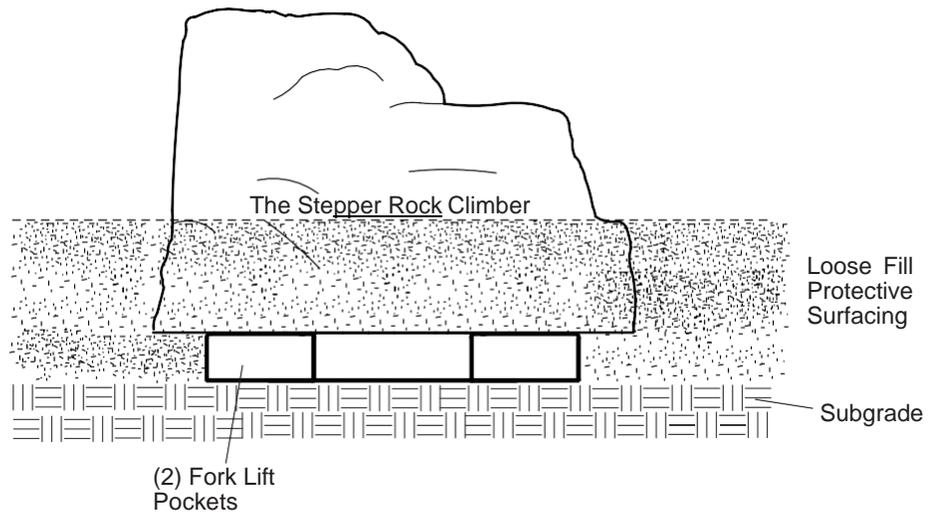
28" - 424 lbs.

Installation Instructions

- 1) **(Direct Bury)** Dig footing as shown. See your Plan View/Footing Layout.
- 2) To unload the log steppers and place in footing holes, a "Lull" type material handler and strap are recommended. Position log steppers in footing holes at dimensions shown, and prop in plumb position. With log steppers and handrail plumb, pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.
- 3) **(8" Stepper Only)** Apply the warning label and age label for the intended age range.
- 4) Install protective surfacing before users are allowed to play on the structure



**DETAIL
 FORK LIFT POCKETS**



Play Naturally™

Nature-Inspired Climbers **160419 The Stepper™ Rock Climber**



160419 The Stepper™ Rock Climber

Parts List

Part#	Description	Qty.
173221	The Stepper Rock Climber Assembly	1
224345	Warning Label Package, 2-12 Yrs.	1
183064	Warning Label.	1
200331	Label 2-5 Yrs	1
200332	Label 2-12 Yrs	1
200333	Label 5-12 Yrs	1

Specifications

Stepper Assembly: (Base) Weldment comprised of 1/4" (.250") HRPO sheet steel and 1/8" (.125") HRPO steel plate. Finish: ProShield®. **(Stepper-fully assembled)** Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, Stone in color.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1/2 man hour

Weight: 1150 lbs.

Min. Use Zone: 6' (1,83 m)

Area Required: 15' 4" x 14' 9" (4,67 m x 4,50 m)

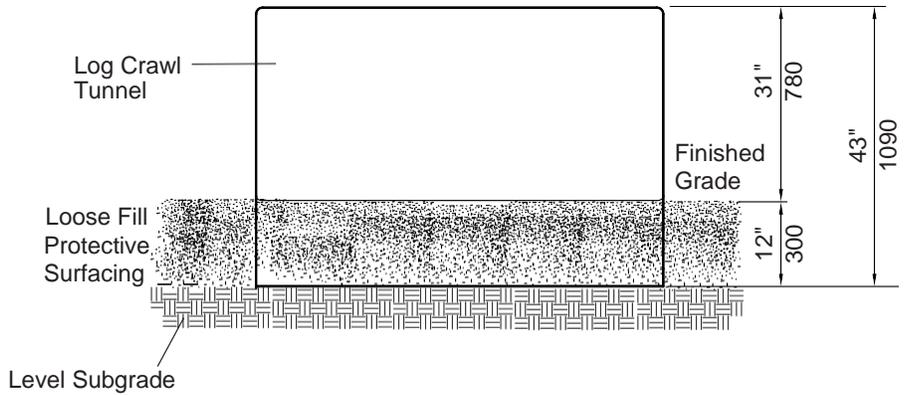
Actual Size: Stepper measures 40" x 33" x 26" high
(1020 mm x 840 mm x 660 mm high)

Fall Height: Varies based on surfacing.

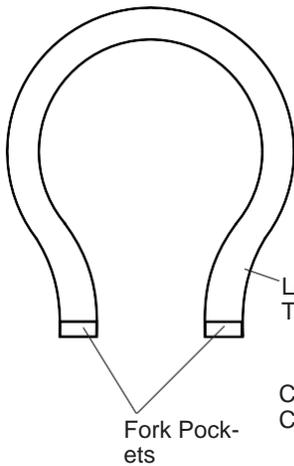
Installation Instructions

- 1) To unload The Stepper Rock Climber a fork lift is recommended. Pick up The Stepper Rock Climber by inserting the fork lift forks into the fork lift pockets. Be very careful to keep The Stepper Rock Climber to the ground when raising or lowering. Do not tip The Stepper Rock Climber on a corner or edge. Do not contact the concrete face of The Stepper Rock Climber with material handler forks, chipping can occur.
- 2) Apply the warning label and age label for the intended age range.
- 3) Install protective surfacing before users are allowed to play on the structure.
- 4) **NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.**

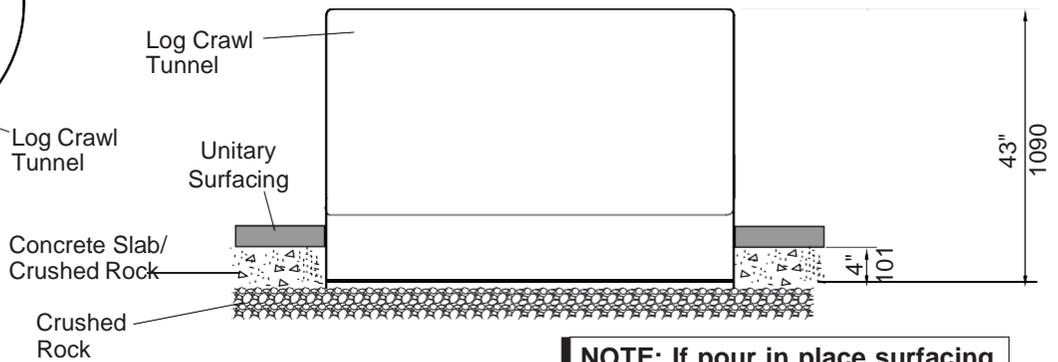
Loose Fill Protective Surfacing



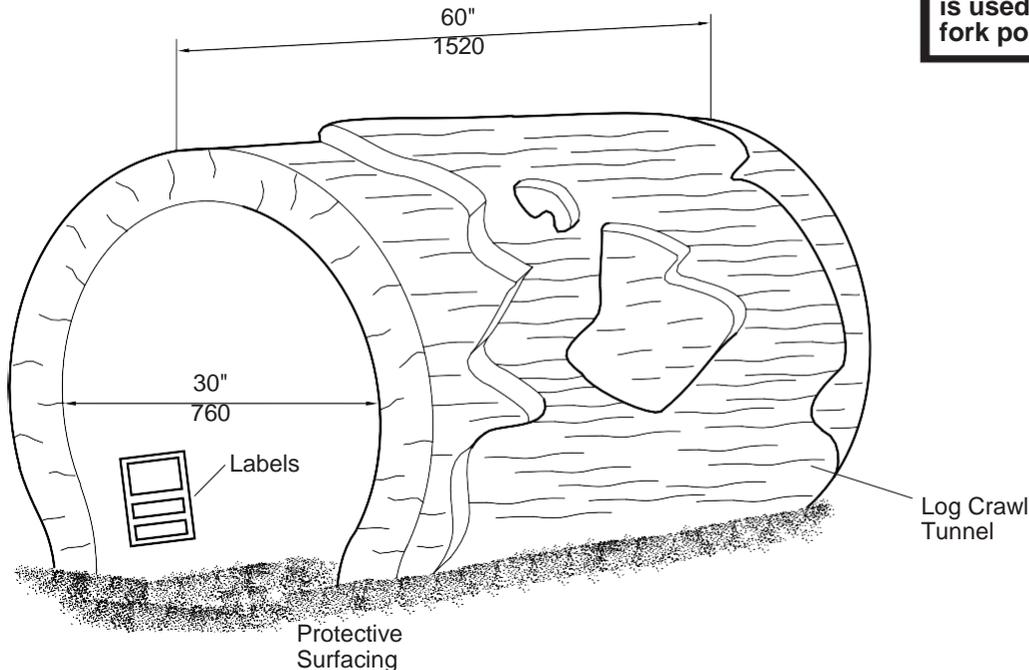
**DETAIL
END VIEW**



Unitary Surfacing



NOTE: If pour in place surfacing is used, blend surfacing to cover fork pockets.



Play Naturally™

More Fun

173594 Log Crawl Tunnel



More Fun 173594 Log Crawl Tunnel

Parts List

Part#	Description	Qty.
175710	Log Crawl Tunnel	1
224345	Warning Label Package 2-12	1
183064	Label Warning	1
200331	Label 2-5 Yrs	1
200332	Label 2-12 Yrs	1
200333	Label 5-12 Yrs	1

Specifications

Log Crawl

Tunnel Assembly: Weldment comprised of 1.900" (48,26 mm) O.D. RS20 (.090"-1.100") (2,29 mm-2,54 mm) wall galvanized steel tubing, 3/16" HRPO steel plate and 7" x 3" x 3/16" (178 mm x 76 mm x 4,75 mm) wall rectangular tube. **(Log Crawl Tunnel assembled)** Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

Installation Time: Approx. 1/4 man hour

Weight: 2010 lbs.

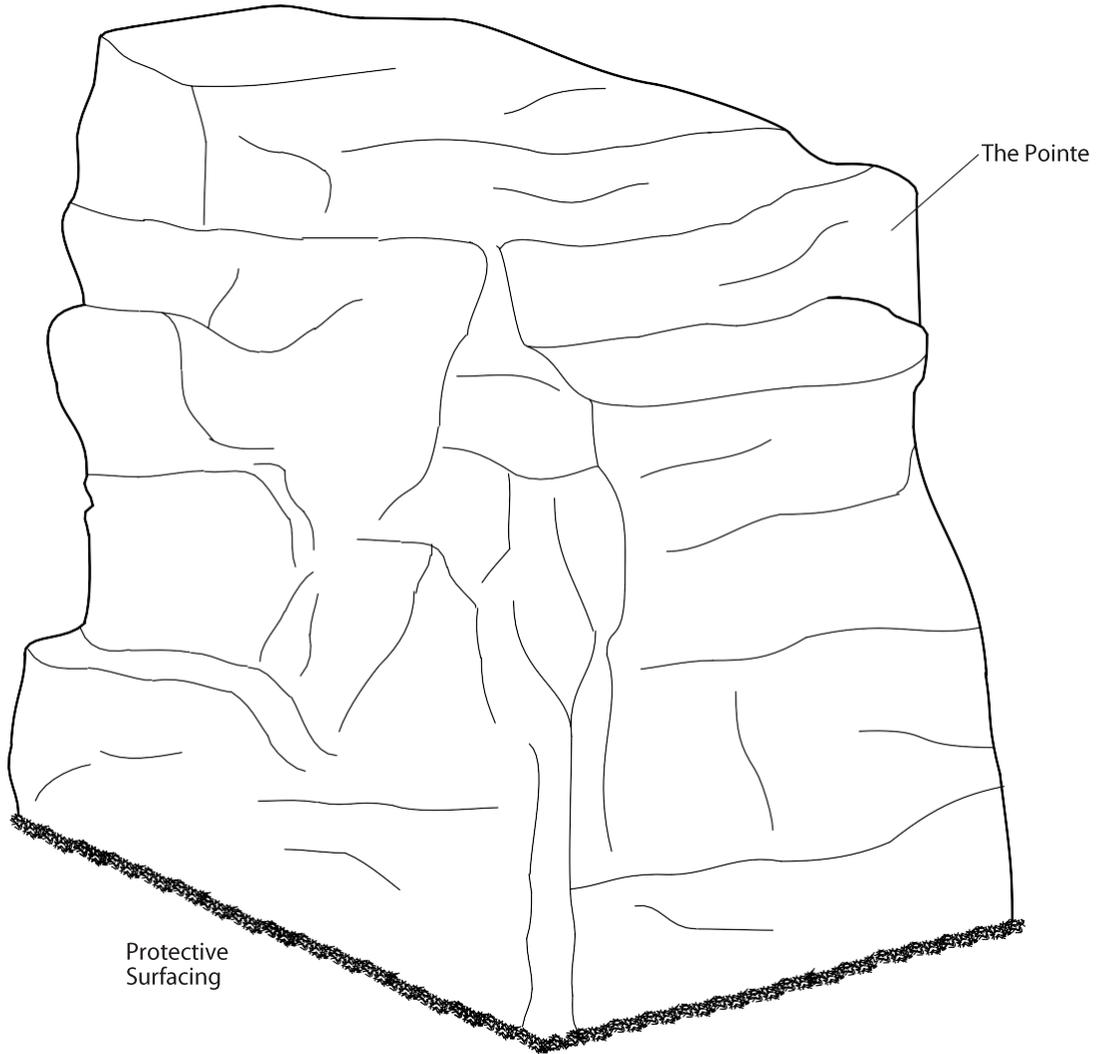
Min. Use Zone: 6' (1830 mm)

Actual Size: Log measures 60" long x 43" high
(1520 mm x 1090 mm high)

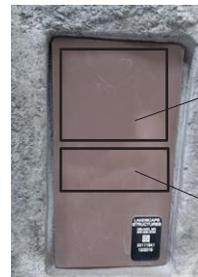
Fall Height: 41" (1040 mm) Max.

Installation Instructions

- 1) The log crawl tunnel must be installed over an area of firm stable soil.
Warning: Never crawl under any part of The Log Crawl Tunnel especially when it is only supported by a forklift.
- 2) To unload the log crawl tunnel, a "Lull" type material handler with at least an 4,000 lb. capacity is recommended. Maximum fork extension size is 2 1/2" high x 6 1/2" wide with no maximum length. **NOTE: At least 2 people are recommended for the log crawl tunnel installation. One person to operate the material handling equipment and one person to spot for the operator.**
- 3) The log crawl tunnel should be placed on firm stable soil. Pick up the log crawl tunnel by inserting the material handling forks into the forklift pockets. Be very careful to keep the log crawl tunnel level to the ground when raising or lowering. Do not contact the concrete face of the log crawl tunnel with material handler forks, chipping can occur.
- 4) Apply the warning label and age label for the intended age range.
- 5) Install protective surfacing before users are allowed to play on the structure.
- 6) **NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.**



DETAIL LABELS



Warning Label

Age Appropriate Label

Play Naturally™

PlayBooster®
 Nature-Inspired
 Climbers

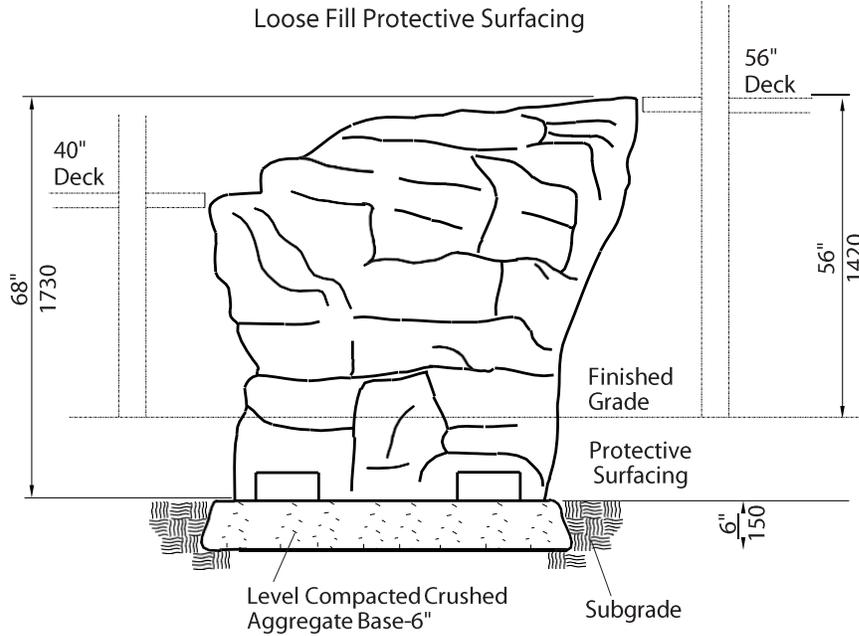
156068/156067 The Pointe™

Sheet 1 of 3

SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

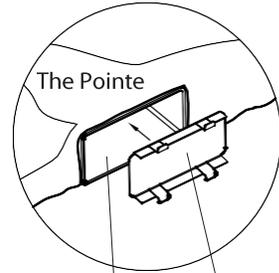
163229b0

PLAN VIEW/POINTE TO DECKS

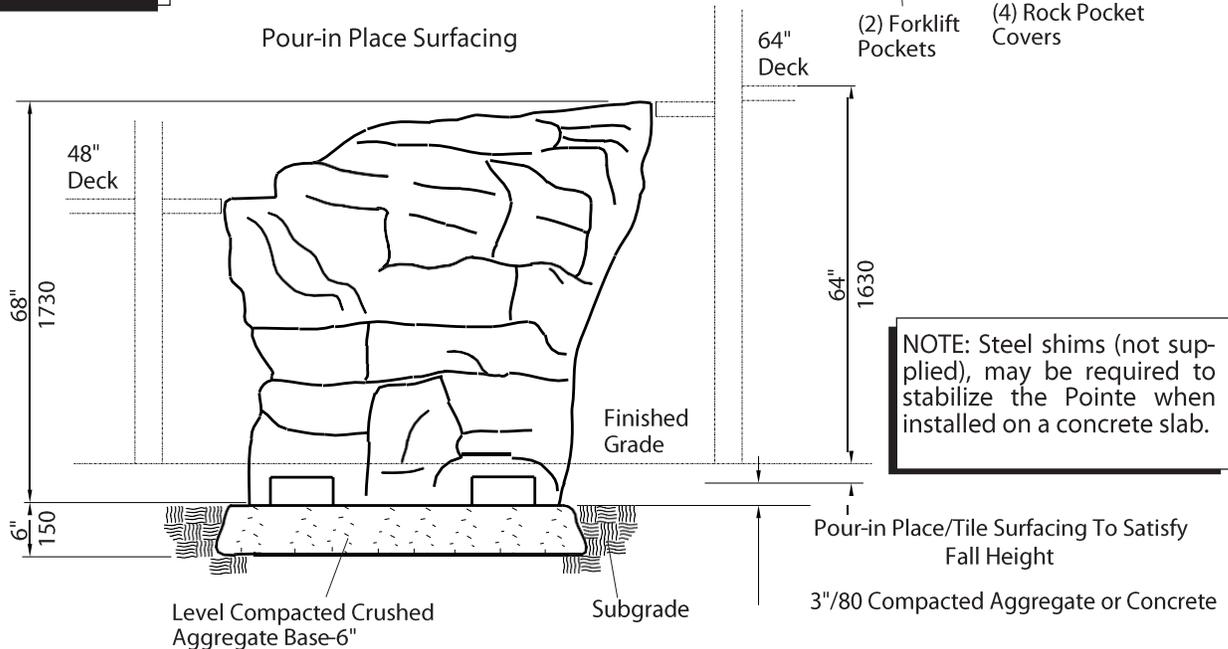


NOTE: NOTE: If you are connecting The Pointe to a Playbooster Deck an Extension Deck is required.

DETAIL
 POINTE POCKETS



Pour-in Place Surfacing

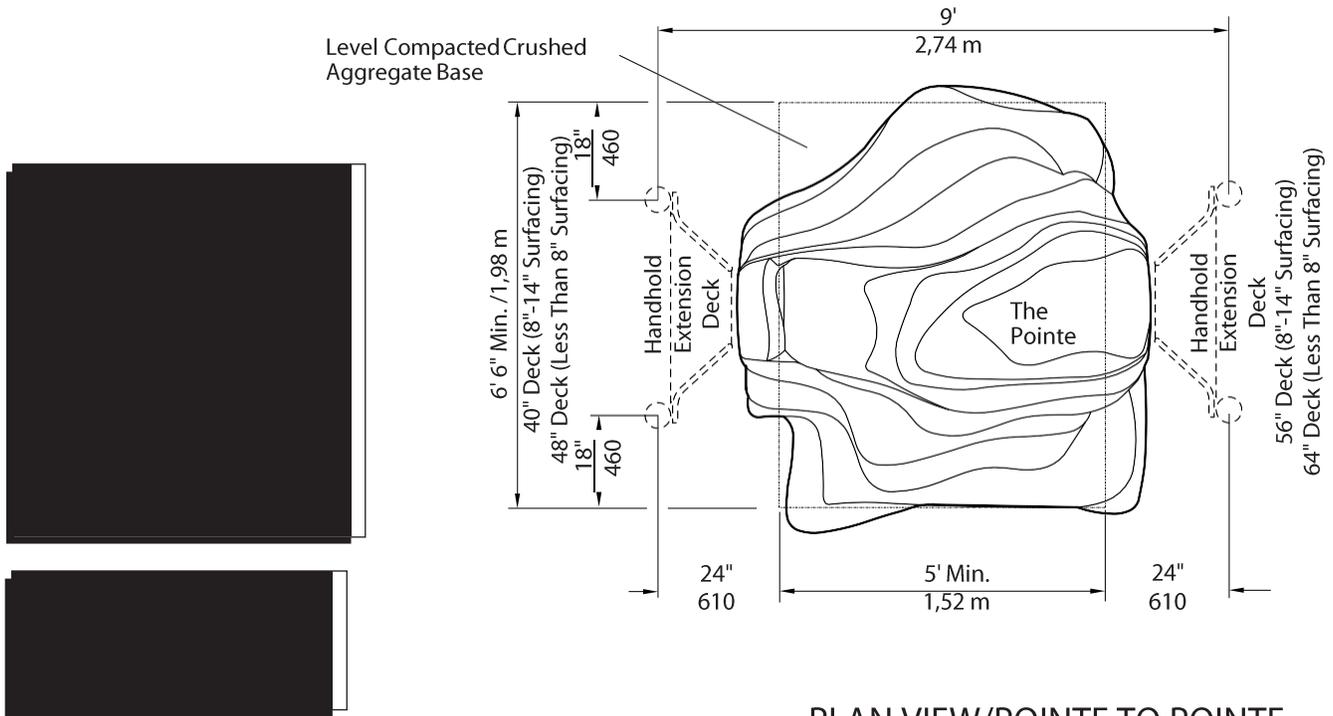


NOTE: Steel shims (not supplied), may be required to stabilize the Pointe when installed on a concrete slab.

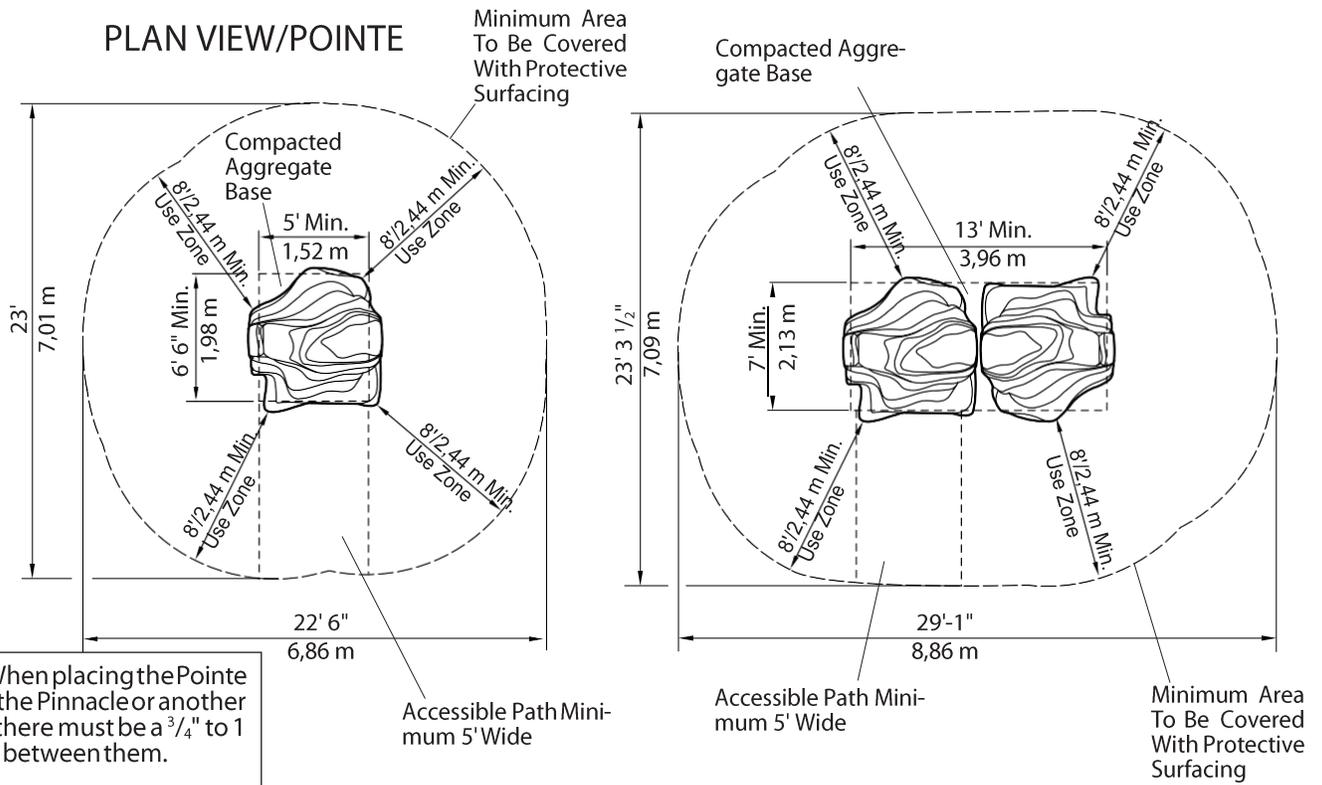
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

156939a0

PLAN VIEW/POINTE TO DECKS



PLAN VIEW/POINTE TO POINTE



NOTE: When placing the Point next to the Pinnacle or another Point, there must be a 3/4" to 1 1/4" gap between them.

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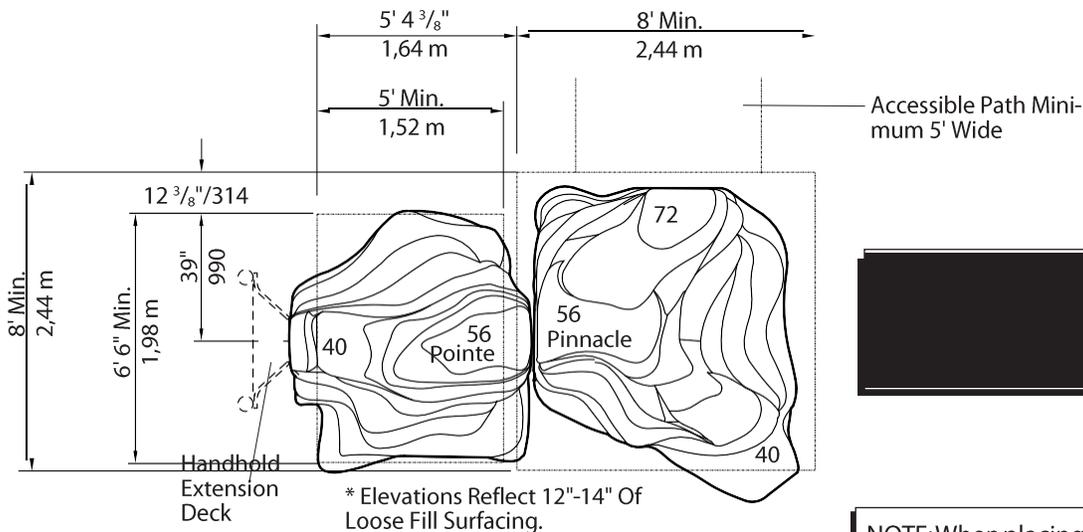
156068/156067 The Point™

Sheet 2 of 3

SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

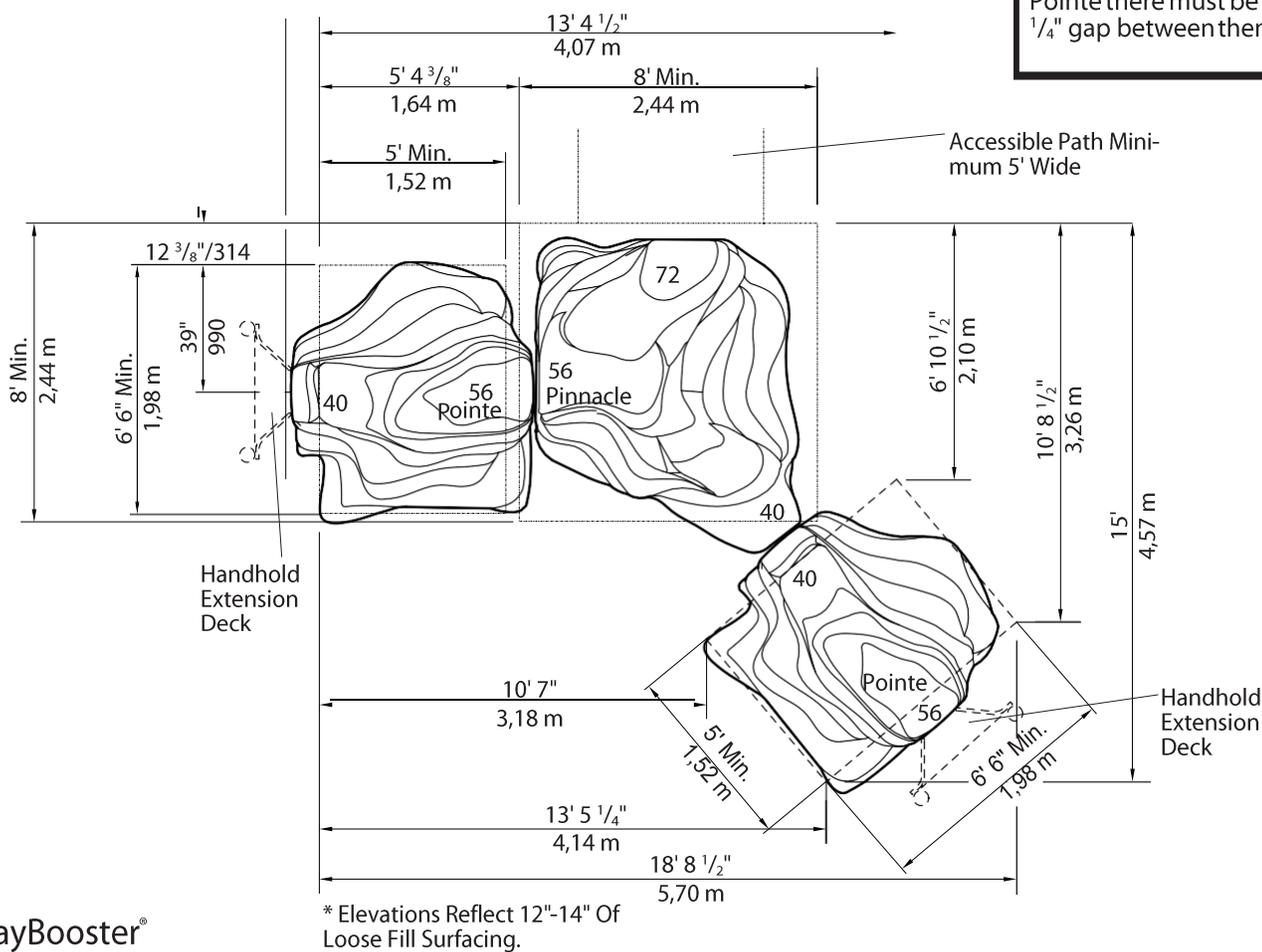
156939d

PLAN VIEW/POINTE TO PINNACLE



NOTE: When placing the Pointe next to the Pinnacle or another Pointe there must be a 3/4" to 1 1/4" gap between them.

PLAN VIEW/POINTE TO PINNACLE TO POINTE



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156068/156067 The Pointe™

Parts List

Part#	Description	Qty.
157644-00	The Pointe Assembly.....	1
146301-00	Rock Pocket Cover.....	4
241541	Warning Label Hardware Package, 5-12	1
183064	Warning Label.....	1
200333	Label 5-12 Yrs.....	1

Specifications

The Pointe Assy.: (Base) Weldment comprised of 7 GA. (.179")(4,54 mm) HRPO sheet steel, C8 x 13.75 steel channel, 3" x 1 1/2" x .120" (76 mm x 38,1 mm x 3,04 mm) wall galvanized steel tube and 1 1/8" (28,58 mm) square bar. Finish: ProShield®. **(Pointe-fully assembled)** Castings are made from Glass Fiber Reinforced Concrete (GFRC). Glass fiber is Alkali Resistant (AR) type glass formulated for concrete. Nominal wall thickness of 1" and weighs about 11 1/2 lbs. per square foot. Castings have a strength of 1,500 lbs. per square inch in tension and 5,000 lbs. per square inch in compression. Finish: Latex paint made for concrete, Stone in color.

Rock Pocket Cover: Fabricated from 13 Ga. (.090") HRPO flat steel conforming to ASTM A1011. Finish: Zinc plate with yellow chromate finish.

Installation Time: 30 Minutes (Aggregate preparation and safety surfacing installation time not included.)

Area Req: 22'-6" (6,86 m) x 23' (7,01 m) Pointe
28'-9 1/2" (8,78 m) x 23' 3 1/2" (7,09 m) Pointe to Pointe

Actual Size: The Pointe measures 84" (2,13 m) long x 78" (1,98 m) wide x 68" (1,73 m) high

Fall Height: Deck Height

Weight: 2750 lbs.

Installation Instructions

1) The Pointe must be installed over an area of compacted firm stable soil. The base for the Pointe requires an area of compacted 3/4" minus crushed aggregate, 78" wide x 60" long. The crushed aggregate should be 6" thick and compacted to at least 95% with a vibratory compactor. The compacted crushed aggregate surface must be flat and level with subgrade. Refer to the Plan/View Pointe To Decks Detail.

Warning: Never crawl under any part of a Pointe or Pinnacle - especially when it is only supported by a forklift.

2) To unload the Pointe a "Lull" type material handler with a 4000 lb. capacity is recommended. To unload the Pinnacle a "Lull" type material handler with a 8000 lb. capacity is recommended. Maximum fork extension size is 3 1/2" high x 7 1/2" wide with no maximum length. **NOTE: At least 2 people are recommended for Pointe installation. One person to operate the material handling equipment and one person to spot for the operator.**

3) Pick up the Pointe by inserting the material handling forks into the forklift pockets. Be very careful to keep a Pointe or Pinnacle level to the ground when raising or lowering. Do not tip a Pointe or Pinnacle on a corner or edge. Do not contact the concrete face of Pointe or Pinnacle with material handler forks, chipping can occur. Place the Pointe in the center of the crushed aggregate base. Refer to the Pointe Pocket Details & Plan View for proper orientation. **NOTE: When placing the Pointe next to a deck or between decks there must be a 1/2" to 1" gap between the extension deck and the Pointe. The Pointe should be centered with the deck or decks. When installing a mainstructure deck with posts on each end of the Pointe, it is recommended that one deck with posts be installed, then place the Pointe next to the extension deck before installing the second deck with posts. When placing the Pointe next to the Pinnacle or another Pointe there must be a 3/4" - 1 1/4" gap between them. If you are connecting The Pointe to a Playbooster Deck an Extension Deck is required. Steel shims (not supplied), may be required to stabilize the Pointe when installed on a concrete slab.**

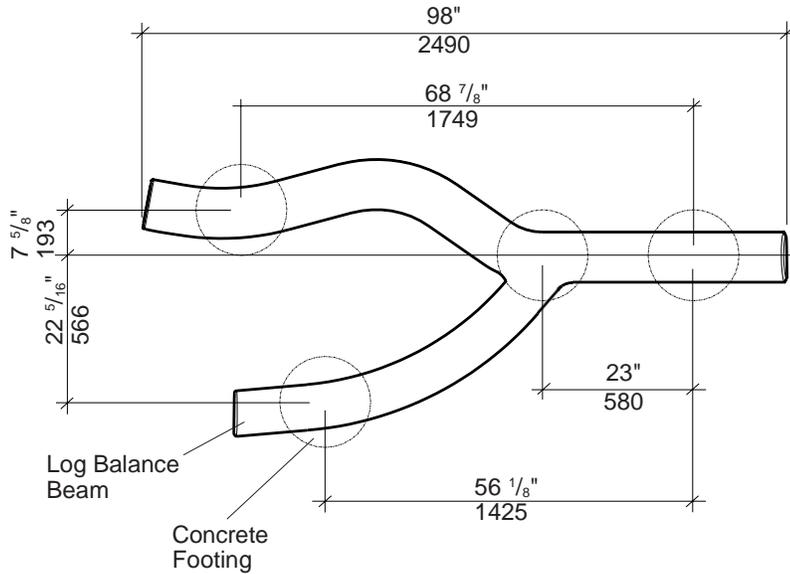
4) Using a hammer, tap Rock pocket covers into Pointe pockets until tight. Refer to the Pointe Pocket Details.

5) When placing a Pointe next to a Pinnacle, the two adjoining surfaces should be a flush as possible. The same applies to Pointe to Pointe and Pinnacle to Pinnacle connections.

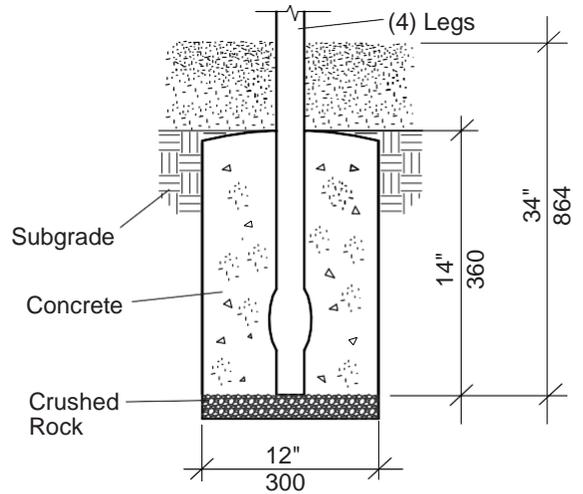
6) Apply the warning label and age label.

7) **NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.**

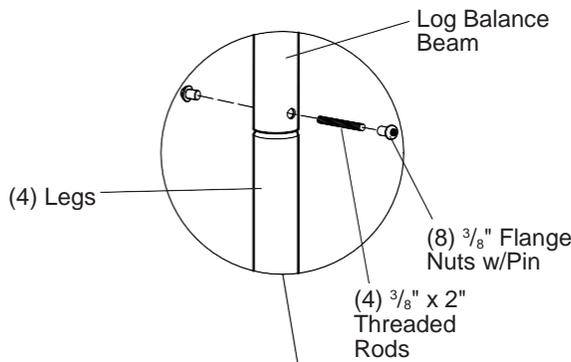
PLAN VIEW/FOOTING LAYOUT



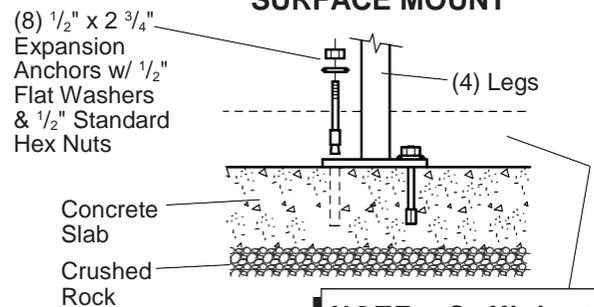
DETAIL DIRECT BURY



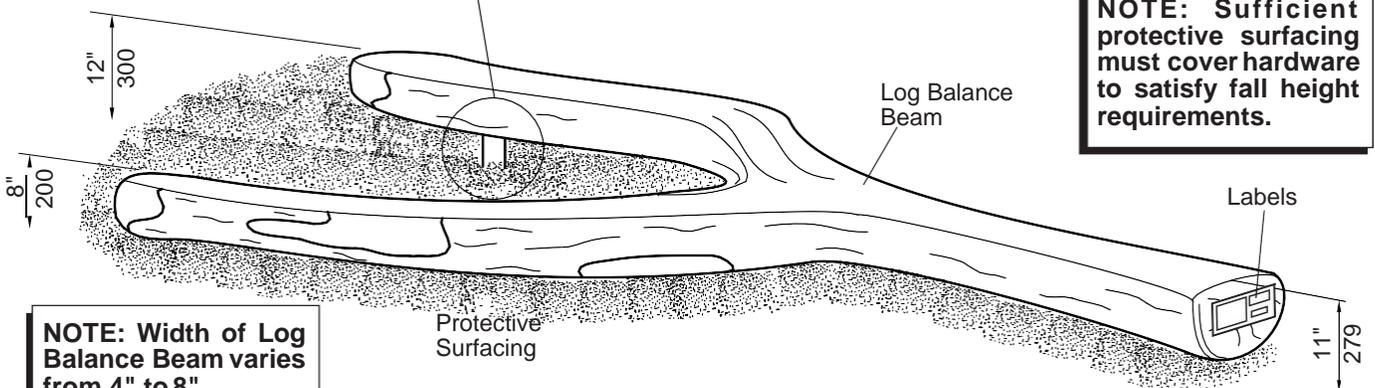
DETAIL LEG ATTACHMENT



DETAIL SURFACE MOUNT



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.



NOTE: Width of Log Balance Beam varies from 4" to 8".

Play Naturally™

Sports & Fitness 173596 Log Balance Beam



Sports & Fitness 173596 Log Balance Beam

Parts List

Part#	Description	Qty.
175712	Log Balance Beam.....	1
175706	Leg, SM, Brown.....	4
175707	Leg, DB, Brown.....	4
175717	Log Balance Beam Hardware Package	1
100353	3/8" Flange Nut w/Pin, SST.....	8
116942	3/8" x 2" Threaded Rod, SST.....	4
111392	2-Hole (SM) Hardware Package	4
100266	1/2" x 2 3/4" Expansion Anchor.....	8
100322	1/2" Standard Hex Nut, SST.....	8
100363	1/2" Flat Washer, SST.....	8
224345	Warning Label Package 2-12	1
183064	Label Warning.....	1
200331	Label 2-5 Yrs.....	1
200332	Label 2-12 Yrs.....	1
200333	Label 5-12 Yrs.....	1

DB = Direct Bury
SM = Surface Mount

Specifications

Log Balance Beam

Assembly: Weldment comprised of 1.900" O.D. RS20 (.090"-.100" wall) galvanized steel tubing and 2.375" O.D. RS20 (.095"-.105" wall) galvanized steel tubing. Finish: ProShield, brown in color. (Log-fully assembled) Wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

Leg: Fabricated from 2.375" O.D. RS20 (.095"-.105" wall) galvanized steel tubing. Finish: ProShield, brown in color.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 2 man hours

Concrete: Approx. 3.66 cu. ft.

Weight: 455 lbs. (DB) 435 lbs. (SM)

Min. Use Zone: 6' (1830 mm)

Actual Size: Log measures 98" long x 42" wide
(2490 m x 1070 mm wide)

Fall Height: 12" (200 mm)

Installation Instructions

1) **(Direct Bury)** - Dig footing holes, spaced as shown. Attach legs to log balance beam, using 3/8" x 2" threaded rods and 3/8" flange nuts with pin. Place log balance beam in footing holes and temporarily brace in plumb and level position. Pour concrete footings and let cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) - Attach legs to log balance beam, using 3/8" x 2" threaded rods and 3/8" flange nuts with pin. Set log balance beam in proper position and mark anchor bolt locations on concrete slab through holes in anchor plates. Move log balance beam aside and drill 1/2" x 3" deep holes in marked locations on concrete slab using 1/2" masonry bit and hammer drill. Reposition log balance beam over drilled holes and tap expansion anchors into holes. Fasten using and 1/2" standard hex nuts with 1/2" flat washers.

- 2) Apply the warning label and age label for the intended age range.
- 3) Install protective surfacing before users are allowed to play on the structure.
- 4) **NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.**