



ADVERTISEMENT FOR BID

Project Name: 2024-25 Payton's Hole Tee Renovation

Notice is hereby given to potential Bidders that the Arlington Heights Park District (the "District," "Park District" or "Owner") will receive sealed bids for the above referenced Project until **1:00 PM on Tuesday, October 15, 2024**, at the Arlington Heights Park District, 410 N. Arlington Heights Road, Arlington Heights, Illinois 60004 at which time the bid proposals will be publicly opened and read aloud. Scope of work includes: Demolition, Site Grading and taking out a large Unilock retaining wall, pouring concrete, then reinstalling. An artificial tee and grass seed are to be installed.

Each bid must be placed in a sealed opaque envelope and shall be clearly marked "**2024-25 Payton's Hole Bid**" and addressed and delivered to the Arlington Heights Park District, Attention: **BID Dept.**, 410 N. Arlington Heights Road, Arlington Heights, Illinois 60004.

Bid Documents may be obtained from the Arlington Heights Park District website: www.ahpd.org. For more information, contact **Susan Rohner, Park Planner** at srohner@ahpd.org.

An optional pre-bid meeting will be held at the Nickol Knoll Golf Course located at 3800 N. Kennicott Ave., Arlington Heights, Illinois **on Monday, October 7th at 2:00PM**. This meeting will be used to review the Specifications, see the project and give any Bidders the opportunity to discuss concerns with the Owner. After **3pm on October 8th, no more questions will be taken** or addenda will be issued, to allow all Bidders enough time to complete their proposals.

The District reserves the right to waive all technicalities, to accept or reject any or all bids, or to accept only portions of a bid and reject the remainder without disclosure for any reason. Failure to make such a disclosure will not result in accrual of any right, claim or cause of action by any Bidder against the District. Owner will award the Contract to the lowest most responsible and responsive Bidder, as determined by Owner. In considering the Bidder's responsibility, the Owner may evaluate, among other factors, the ability of the Bidder to provide experienced labor sufficient in numbers to timely and properly complete the Work, the financial capability of the Bidder, and the performance of the Bidder on other projects.

Bids shall not include federal excise tax or state sales tax for materials to be incorporated in, or totally consumed in the prosecution of the Work. A tax exemption certificate will be furnished by the Park District at the request of the Bidder. The Park District's tax exemption number shall only be used by the successful Bidder for the Work of this Project only.

After the bid opening, no bid may be withdrawn or canceled for a period of (60) calendar days.

The Work of this Project is subject to the Illinois *Prevailing Wage Act*, 820 ILCS 130/0.01 *et seq.* A prevailing wage determination has been made by the Park District, which is the same as that determined by the Illinois Department of Labor for public works projects in Cook County. The Contract entered into for the Work will be drawn in compliance with said law and proposals should be prepared accordingly and provide for payment of all laborers, workmen, and mechanics needed to perform the Work at no less than the prevailing rate of wages (including the prevailing rate for legal holiday and overtime work as applicable) for each craft, type of worker, or mechanic.

All bids must be accompanied by cashier's check, certified check, or bid bond payable to the order of the Arlington Heights Park District for ten percent (10%) of the amount of the bid as provided in the Instructions to Bidders. No proposals or bids will be considered unless accompanied by such bond or check.

The Contractor(s) selected will also be required to comply with all applicable federal, state and local laws, rules, regulations and executive orders, including but not limited to those pertaining to equal employment opportunity.

By Order Of:

Board of Park Commissioners
Arlington Heights Park District
10/1/2024



PROJECT MANUAL
2024-25 Payton's Hole Tee
Renovation Bid –
Nickol Knoll Golf Course

BID OPENING

on

Tuesday, October 15, 2024

1:00 pm

at

Arlington Heights Park Dist. Admin. Offices
410 N. Arlington Heights Road
Arlington Heights, Illinois 60004



INSTRUCTIONS TO BIDDERS

DATE: 10/01/2024

BID REQUEST: 2024-25 Payton's Hole Tee Renovation

Sealed bids will be accepted until **1:00 PM on Tuesday, 10/15/24**, and immediately thereafter publicly opened and read aloud at the Arlington Heights Park District Administration Office, 410 N. Arlington Heights Road, Arlington Heights, Illinois 60004. Bids arriving after this time will be rejected and will be returned unopened, including mailed bids regardless of when post marked. All Bidders are welcome to attend the bid opening. After bid opening, bids will be submitted for approval to the Arlington Heights Park District Board of Park Commissioners at a regularly scheduled meeting. This project is anticipated to begin: **October 24, 2024 - weather permitting. This project will include excavating, demolition, retaining wall de/re-construction, concrete footings, installation of an artificial tee box, bench installation and grassing restoration.**

1. Preparation and Submission of Bid Proposal

It is the sole responsibility of the Bidder to see that his bid is received in proper time. **No faxed or e-mail bid or modification of a bid will be considered.** The Park District is not responsible for the premature opening of bids not marked as required. Any bid opened prematurely due to the failure of the Bidder to mark the envelope in accordance with these Bid Documents will be considered non-responsive. Bidders' prices are to include the delivery of all materials; including; equipment, supplies, tools, scaffolding, transportation, insurances, bonds, warranties, and all other items and facilities, and the performance of all labor and services, necessary for the proper completion of the Work except as may be otherwise expressly provided in the Contract Documents. Bids shall not include federal excise tax or state sales tax for materials to be incorporated in, or totally consumed in the prosecution of, the Work. An exemption certificate will be furnished by the Park District upon request of the Bidder.

Bidder must acknowledge all Addenda received in the spaces provided on the Contractor Bid Form. By submitting a bid, Bidder indicates that all considerations issued by Addendum are incorporated in the bid.

Bidders shall return all Bid Documents, including Drawings and Specifications with the bid, and **no sheets shall be detached from any part of the Bid Documents.**

Attached to the Bid Form will be one or more certifications regarding the Bidder's compliance with applicable laws. **Failure of a Bidder to complete/submit a required certification shall be the basis for immediate rejection of that Bidder's bid.** The certification of the successful Bidder shall become a part of the Contract with the Park District.

The Bidder shall submit its prices on the attached Bid Proposal Form. The Bid Proposal Form shall be executed properly and all writing, including all signatures, shall be with black ink. Failure to use the Bid Proposal Form provided could result in rejection of the bid. Do not detach any portion of this document; invalidation of the bid could result.

The Bidder shall specify in figures, in the places provided, a price for each of the separate items called for in the Bid Form.

2. Requirement of Bidders

Bidders must be able to demonstrate that they: 1) have experience in performing and have successfully performed and are still actively engaged in performing work similar in kind and scope to the Services, 2.) will use a Unilock Retaining Wall Certified Installer, with experience in large retaining wall construction over 7 foot heights; and 3) are able to show that they have adequate laborers, equipment and materials to successfully complete the Services as indicated in the Bid Documents and within the time required by the Bid Documents. The Contractor shall not have been debarred or determined ineligible for public contracts by any governmental agency.

The following information must be attached to the bid proposal. Failure to do so may result in disqualification of the Bidder.

On a separate sheet, list at least five (5) service contracts your organization has completed in the past two (2) years, which are comparable in scope, giving the name of the client, client contact and telephone number, and length of contract.

On a separate sheet, list all administrative proceedings and litigation filed by or against Bidder in the past five (5) years, including the name and case number, name/jurisdiction of the court or administrative agency, and a summary of each claim/case, including current status and if no longer pending, the disposition. The foregoing includes but is not limited to information regarding any proceedings and actions taken by any governmental agency to debar or disqualify the Bidder from bidding on public contracts, including the name of the agency initiating the proceeding/action, the nature of the proceeding/action, the claimed basis for the proceeding/action and the current status or disposition of the proceeding/action.

Initial here if there is nothing to disclose: _____

On a separate sheet, indicate all instances in which Bidder has been rejected for not being a responsible bidder, giving the name of the client, client contact and telephone number, and an explanation of the circumstances surrounding the rejection.

Initial here if there is nothing to disclose: _____

On a separate sheet, provide a list of all contracts to which you were a party and with respect to which you were declared to be in breach of one or more provisions, giving the type of contract, the project location where applicable, the names and addresses of the parties to the contract, the name of the party declaring the breach, the nature of the claimed breach and current status or resolution of the claim.

Initial here if there is nothing to disclose: _____

Other required submittals include: Bid Proposal; Contractor's Compliance and Certifications. **Failure of a Bidder to complete/submit these documents shall be the basis for immediate rejection of that Bidder's bid.**

3. Examination of Site, Drawings, Specifications

Each Bidder shall visit the site(s) of the proposed Work and fully acquaint himself with conditions, as they exist, and shall undertake such additional inquiry and investigation as he shall deem necessary so that he may fully understand the requirements, facilities, possible difficulties and restrictions attending the execution of the Work under the Contract. Bidder shall thoroughly examine and be familiar with all of the Bid Documents including but not limited to the Drawings and the written Specifications. Any conflicts or discrepancies found between or among Bid Documents, including but not limited to the Drawings and written Specifications, and the site conditions, or any errors, omissions or ambiguities in the Drawings or written Specifications shall be immediately reported to the Park District and written clarification requested prior to submission of a bid.

The failure or omission of any Bidder to obtain, receive or examine any form, instrument, or information or to visit the Project site(s), and become knowledgeable with respect to conditions there existing, or to seek needed clarification shall in no way relieve any Bidder from any obligations with respect to his/her bid. By submitting a bid, the Bidder agrees, represents and warrants that he has undertaken such investigation as he deemed necessary, has examined the site(s) and the Bid Documents, has obtained all needed clarifications and where the Bid Documents indicate in any part of the Work, that a given result be produced, that the Bid Documents are adequate and the required result can be produced as indicated in the Specifications and Drawing(s). Once the award has been made, failure to have undertaken and completed the foregoing tasks shall not be cause to alter the original Contract or to request additional compensation.

4. Acceptance or Rejection of Bids

The Park District may accept the bid of, and award the Contract for the Work to, the lowest responsive and responsible Bidder as determined by and in the sole discretion of the Park District.

The Owner reserves the right to (1) reject all bids; (2) reject only certain bids which are non-conforming or non-responsive to the bid requirements; (3) accept only a portion, part or specific items of Work of all and reject others, as the Owner shall in its sole discretion determine to be in its best interest; and/or (4) award the Contract to the responsible Bidder submitting the lowest bid responsive to the bidding requirements. No bid will be accepted from or Contract awarded to any person, firm or corporation that is in arrears or is in default to the Park District upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to said Park District or that has failed to perform faithfully any previous contract with the Park District.

In the event of a rejection of a portion, part, or certain items of Work of all bids, the bid of each Bidder shall automatically be deemed reduced by the amount of such rejected part or item at the unit price or other cost designated therefore by that Bidder on its submitted Contractor Bid Proposal Form. The successful Bidder so selected may not refuse to enter into a Contract with the Owner on the basis that the Owner awarded a Contract for less than all portions or items of the Work specified in the Bid Documents. The Arlington Heights Park District Board of Park Commissioners reserves the right to waive any technicalities or irregularities, and to disregard any informality on the bids and bidding, when in its opinion the best interest of the Park District will be served by such actions and in accordance with applicable law.

5. Surety

All bids must be accompanied by a bid bond or bank cashier's check or certified check payable to the Arlington Heights Park District for ten percent (10 %) of the amount of the bid and drawn on

a responsive and responsible bank doing business in the United States. All bids not accompanied by a bid security, when required, will be rejected.

The bid security of all except the three (3) lowest responsive and responsible Bidders will be returned after the decision to accept or reject bids by the Arlington Heights Park District Board of Park Commissioners. The bid security of the successful Bidder will be returned after acceptance by the Park District of an acceptable Performance Bond, Labor and Materials/Payment Bond and a certificate of insurance naming the Arlington Heights Park District as the certificate holder and as additional insured, and the successful Bidder has executed and returned to the Park District the Contract for the Work presented by the Park District.

Prior to beginning Work, the successful Bidder shall furnish a Performance Bond, and Labor and Materials/Payment Bond in the amount of 110% of the Contract Sum, using a form similar to the AIA-A312-2010 form, or its current equivalent, or one acceptable to Owner, cosigned by a surety company licensed to conduct business in the State of Illinois and with at least an "A" rating and a financial rating of at least "X" in the latest edition of the Best Insurance Guide. Said bond shall guarantee the faithful performance of the Work in accordance with the Contract, the payment of all indebtedness incurred for labor and materials, and guarantee correction of Work. The cost of each bond shall be included in the Contract Sum. The Bidder and all Subcontractors shall name the Park District as an obligee on all bonds. Said bonds shall meet the requirements of the Illinois Public Construction Bond Act, 30 ILCS 550/0.01 *et seq.* and any further amendments thereto. Bidder shall include in its Performance Bond and Labor and Material Payment Bond such language as shall guarantee the faithful performance of the Prevailing Wage Act as required in these Bid Documents.

The Performance Bond and Labor and Material Payment Bond will become a part of the Contract. The failure of the successful Bidder to enter into the Contract and supply the required bonds and evidence of insurance within ten (10) days after the Contract is presented for signature, or within such extended period as the Park District may grant, shall constitute a default, and the Park District may either award the Contract to the next responsible Bidder, or re-advertise for bids. In the event of a default, the Owner need not return the defaulting Bidder's bid surety and may charge against the defaulting Bidder for the full difference between the amount for the bid and the amount for which a Contract for the Work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the defaulting Bidder's bid surety.

6. Withdrawal of Bid

Bidders may withdraw or cancel their bids at any time prior to the advertised bid opening time by signing and submitting a request for said withdrawal. After the bid opening time, no bid shall be withdrawn or canceled for a period of sixty (60) calendar days.

7. Award, Acceptance and Contract

Owner will award the Contract to the lowest most responsible and responsive Bidder, as determined by Owner. In considering the Bidder's responsibility, the Owner may evaluate, among other factors, the ability of the Bidder to provide experienced labor sufficient in numbers to timely and properly complete the services, conformity with the Specifications, serviceability, quality, and the financial capability of the Bidder, and the performance of the Bidder on other projects.

The Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bid Documents, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

Bids will be awarded to one Bidder for the entire Project or to any series of Bidders for an appropriate proportion of the Project. If specified in the Bid Form, awards will be based upon the submitted unit prices.

The acceptance of a bid will be by a Notice of Award, signed by a duly authorized representative of the Park District; no other act by the Park District shall constitute the acceptance of a bid. The acceptance of a bid by the Park District shall bind the successful Bidder to execute and perform the Work of the Contract. The successful Bidder to whom the Contract is awarded by the Park District shall sign and deliver to the Park District for execution by the Park District all required copies of the Contract, along with all required insurance and surety documents within ten (10) days after presentation to him of the Contract for signature. In case the Bidder shall fail or neglect to do so, he will be considered as having abandoned the Contract, and as being in default to the Owner. The Owner may thereupon re-advertise or otherwise award said Contract and forfeits the Bid Security.

The Invitation to Bid, Instructions to Bidders, General Conditions, Supplementary and/or Special Conditions, if any, Drawings, Specifications, Contractor Bid Proposal Form, Addenda, if any, Contractors Compliance and Certifications Attachment, and Substance Abuse Certification and the Prevailing Wage Determination and Supersedes Notice comprise the Bid Documents. The Bid Documents, together with the Standard /Form of Agreement between Owner and Contractor AIA Document A101-2017, as modified by the Park District (or such other form of agreement or contract selected by Owner), and the Performance Bond and Labor Material Payment Bond and proof of insurance comprise the Contract Documents.

8. Interpretation of the Contract Documents

The Park District shall in all cases determine the amount or quantity of the several kinds of Work which are to be paid for under this Contract, and shall decide all questions which may arise relative to the execution of the Contract on the part of the Contractor, and all estimates and decisions shall be final and conclusive. The Park District shall have the right to make alterations in the lines, grades, plans, forms, or dimensions of the Work herein contemplated either before or after the commencement of the Work. If such alterations diminish the quantity of the Work to be done, they shall not constitute a claim for damage or for anticipated profits on the work dispensed with, or if they increase the amount of Work, such increase shall be paid according to the quantity actually done and at the price or prices stipulated for such Work in the Contract. The Park District reserves the right to approve, an equal to or superior to product or equipment required under the Specifications, or to reject as not being and equal to or superior to the product or equipment required under the Specifications. If the Bidder is in doubt as to the interpretation of any part of the Bid Documents, or finds errors, discrepancies or omissions from any part of the Contract Documents, he must submit a written request for interpretation thereof not later than three (3) days prior to opening of bids to the Park District. Address all communications to srohner@ahpd.org at the Park District. If an error or omission is discovered in the Bid Documents after the bid opening, the Park District reserves the right: i) to determine whether to require the submission of new bids; or ii) if the error or omission is of such a nature that it was reasonably discoverable upon a careful review of the Bid Documents, to award the Contract to the lowest responsive and responsible Bidder as determined by the Park District and to require that

Contractor to perform the Work in accordance with an issued correction by the Park District and/or Architect and for the amount bid by the Contractor. Such decisions are final and not subject to recourse. Errors and omissions made by the Bidder cannot be corrected after the bid opening.

9. Addenda

Addenda questions are due by 3PM, 10/08/24. Any interpretation, correction to, or addition to the Bid Documents will be made by written Addendum and will be delivered by Email or fax to each prime Bidder of record. The written Addenda constitute the only interpretations of the Bid Documents; the Park District accepts no responsibility for any other claimed interpretations or communications.

It is the responsibility of each Bidder to verify that he has received all Addenda prior to submitting a bid. It is also the responsibility of each Bidder to verify that all subcontractors and material suppliers whose prices are incorporated in the Bidder's bid are familiar with the Bid Documents in their entirety, including all Addenda issued up to the time of bid opening.

In the event a conflict or omission is discovered in the Bid Documents after the issuing of the last Addendum such that an interpretation cannot be issued by the Park District prior to bidding, the Bidder is directed to estimate on and provide the quantity and quality of material and labor consistent with the overall represented and indicated Work so as to provide all materials, equipment, labor, and services necessary for the completion of the Work in accordance with the Bid Documents.

10. Substitutions during Bidding

Unless otherwise indicated, the use of brand names in the Specifications is used for the purpose of establishing a grade or quality. Bidders proposing to use an alternate that is equal to or superior to in every respect to that required by the Specifications must request approval in writing to the Park District at least seven (7) business days prior to the bid opening and mark the item as 'or approved equal'.

Additionally, Bidders requesting approval for use of an alternate must provide certification by the manufacturer that the substitute proposed is equal to or superior in every respect to that required by the Contract Documents, and that its in-place performance will be equal to or superior to the product or equipment specified in the application indicated. The Bidder, in submitting the request for substitution, waives the right to additional payment or an extension of Contract Time because of the failure of the substitute to perform as represented in the request for substitution.

The Park District may request additional information or documentation necessary for evaluation of the request for substitution. The Park District will notify all Bidders of acceptance of the proposed substitute by means of an Addendum to the Bid Documents. Park District's approval of a substitute during bidding does not relieve the Contractor of the responsibility to submit required shop drawings and to comply with all other requirements of the Contract Documents, including but not limited to proper performance of all components of the Work and suitability for the uses specified.

Bids proposing alternates not previously approved by the Park District will be considered non-responsive and rejected. The Park District reserves the right to determine whether a substituted

selection, in its judgment, is equal to or better quality and therefore an acceptable alternate. Such decisions are final and not subject to recourse.

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION

The American Institute of Architects "AIA Document A201-2017 General Conditions of the Contract for Construction," 2007 Edition, as modified by Owner, and included in this Project Manual are the General Conditions.

SUPPLEMENTAL CONDITIONS

The "General Conditions of the Contract, AIA Document A201, 2017 Edition" (the "General Conditions"), as modified by Owner, are hereby amended to include the following:

I. **Insurance and Indemnity Requirements**

Contractor shall procure and maintain for the duration of the contract, insurance against claims for death, injuries to persons, or damages to property which may arise from or in connection with the performance of work hereunder by the Contractor, his agents, representatives, employees or subcontractors of the types and in the amounts listed below.

- A. Commercial General and Umbrella Liability Insurance.** Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than **\$3,000,000 each occurrence**. If such CGL insurance contains a general aggregate limit, it shall apply separately to this project/location. CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01, or a substitute form providing equivalent coverage, and shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract). Owner, its elected and appointed officials, officers, employees and agents shall be included as an insured under the CGL, **using ISO additional insured endorsement CG 20 10** or a substitute providing equivalent coverage, and under the commercial umbrella, if any. This insurance shall apply as primary insurance with respect to any other insurance or self-insurance afforded to Owner. There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground property damage.
- B. Continuing Completed Operations Liability Insurance.** Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella liability insurance with a limit of not less than \$3,000,000 each occurrence for at least three years following substantial completion of the work. Continuing CGL insurance shall be written on ISO occurrence form CG 00 01, or substitute form providing equivalent coverage, and shall, at minimum, cover liability arising from products-completed operations and liability assumed under an insured contract. Continuing CGL insurance shall have a products-completed operations aggregate of at least two times its each occurrence limit. Continuing commercial umbrella coverage, if any, shall include liability coverage for damage to the insured's completed work equivalent to that provided under ISO form CG 00 01.
- C. Business Auto and Umbrella Liability Insurance.** Contractor shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000

each accident. Such insurance shall cover liability arising out of any auto including owned, hired and non-owned autos. Business auto insurance shall be written on Insurance Services Office (ISO) form CA 00 0 1, CA 00 05, CA 00 12, or a substitute form providing equivalent liability coverage equivalent to that provided in the 1990 and later editions of CA 00 01.

D. Workers Compensation Insurance. Contractor shall maintain workers compensation as required by statute and employers liability insurance. The commercial umbrella and/or employers liability limits shall not be less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease. If Owner has not been included as an insured under the CGL using ISO additional insured endorsement CG 20 10 under the Commercial General and Umbrella Liability Insurance required in this Contract, the Contractor waives all rights against Owner and its officers, officials, employees, volunteers and agents for recovery of damages arising out of or incident to the Contractors work.

E. General Insurance Provisions.

1. Evidence of Insurance. Prior to beginning Work, Contractor shall furnish Owner with a certificate of insurance and applicable policy endorsements, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above. All certificates shall provide for 30 days written notice to Owner prior to the cancellation or material change of insurance referred to therein. Written notice to Owner shall be by certified mail, return receipt requested. Failure of Owner to demand such certificate, endorsement or other evidence of full compliance with these insurance requirements or failure of Owner to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance. Owner shall have the right, but not the obligation, of prohibiting Contractor or any subcontractor from entering the Project site until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by Owner. Failure to maintain the required insurance may result in termination of this Contract at Owner's option. With respect to insurance maintained after final payment in compliance with a requirement above, an additional certificate shall provide certified copies all insurance policies required above within 10 days of Owner's written request for said copies.

2. Acceptability of Insurers. For insurance companies which obtain a rating from A.M. Best, that rating should be no less than A VII using the most recent edition of the A.M. Bests Key Rating Guide. If the Bests rating is less than A VII or a Best's rating is not obtained, tile Owner has the right to reject insurance written by an insurer it deems unacceptable.

3. Cross-Liability Coverage. If Contractor's liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.

4. Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to the Owner. At the option of the Owner, the Contractor may be asked to eliminate such deductibles or self-insured retentions as respects the Owner, its officers, officials, employees, volunteers and agents or required to procure a bond guaranteeing payment of losses and other related costs including but not limited to investigations, claim administration and defense expenses.

5. Subcontractors. Contractor shall cause each subcontractor employed by Contractor to purchase and maintain insurance of the type specified above. When requested by the Owner,

Contractor shall furnish copies of certificates of insurance evidencing coverage for each subcontractor.

F. Indemnification

To the fullest extent permitted by law, the Contractor shall waive all right of contribution and shall indemnify and hold harmless the Owner and its officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses, including but not limited to legal fees (attorney's and paralegals fees and court costs), arising out of or resulting from the performance of the Contractor's work, provided that any such claim, damage, loss or expense (i) is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property, other than the work itself, including the loss of use resulting therefrom and (ii) is caused in whole or in part by any wrongful or negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph. Contractor shall similarly protect, indemnify and hold and save harmless the Owner, its officers, officials, employees, volunteers and agents against and from any and all claims, costs, causes, actions and expenses including but not limited to legal fees, incurred by reason of Contractor's breach of any of its obligations under, or Contractor's default of, any provision of the Contract.

BID PROPOSAL

Bidder is:

An Individual:

By: _____ (SEAL)

(Individual's Name)

Doing business as _____

Business Address: _____

Phone Number: _____

A Partnership:

By: _____ (SEAL)

(Firm Name)

(General Partner)

Business Address: _____

Phone Number: _____

A Corporation:

By: _____ (SEAL)

(Corporation Name)

(State of Incorporation)

By: _____

(Name of Person Authorized to Sign)

Title: _____ Attest _____
(Secretary)

(CORPORATE SEAL)

Business Address: _____

Phone Number: _____

By submission of its bid, the Bidder acknowledges, agrees, represents, declares and warrants:

1. That it has visited and examined the site, and is fully familiar with and has satisfied itself as to the site and the local and other conditions under which the Work is to be performed, including

without limitation, (i) surface conditions of the site and subsurface conditions readily observable or ascertainable upon the exercise of reasonable diligence and all structures and obstructions thereon and thereunder, both natural and manmade; (ii) the nature, location, and character of the general area in which the Project is located, including without limitation, its climatic conditions, available labor supply and labor costs, and available equipment supply and equipment costs; and (iii) the quality and quantity of all materials, supplies, tools, equipment, labor, and professional services necessary to complete the Work in the manner and within the cost and time frame indicated by the Contract Documents; and has correlated the Bidder's personal observations with the requirements of and matters indicated in or by the proposed Contract Documents;

2. To hold the bid open for sixty (60) days subsequent to the date of the bid opening;
3. To enter into and execute a Contract with the Owner within ten (10) days after the date of the Notice of Award, if awarded on the basis of this bid, and in connection therewith to:
 - (a) Furnish all bonds and insurance required by the Contract Documents;
 - (b) Accomplish the Work in accordance with the Contract Documents; and
 - (c) Complete the Work within the time requirements as set forth in the Contract Documents;
4. That the Bidder has carefully examined the Instructions to Bidders, the Drawings and Specifications, and the Project Manual in its entirety, in order to determine how these affect the bid proposal, the forms of the Contract, the required Contract bonds, and duration thereof, and that the Bidder has inspected in detail the site of the proposed Work, and been familiarized with all of the requirements of construction, and of the governing municipalities under whose jurisdiction the Project falls (its codes, ordinances and construction requirements therein), and understands that in making this proposal, the Bidder waives all rights to plead any misunderstanding regarding the same;
5. That if this proposal is accepted, the Bidder is to provide all of the necessary equipment, tools, apparatus, labor, and other means of construction, and to do all of the Work and to furnish all of the materials specified in the Contract Documents in the manner and at the time therein prescribed, and in accordance with the requirements set forth;
6. To furnish a Bid Bond in accordance with the Instructions to Bidders;
7. To furnish Performance/Labor and Material Payment Bond in accordance with the Instructions to Bidders;
8. To commence Work as specified in the Instructions to Bidders, and to prosecute the Work in such a manner, and with sufficient materials, equipment and labor as will ensure its completion within reasonable time, it being understood and agreed that the completion within such reasonable time is an essential part of this Contract;
9. That he has checked carefully the bid figures and understands that he shall be responsible for any errors or omissions based on these Specifications and alternates as submitted on the Bid Proposal Form;
10. That it is understood and agreed that the Arlington Heights Park District reserves the right to: a) accept or reject any or all bids; b) waive any technicalities; c) award to one Bidder the entire Project

or to any series of Bidder for an appropriate proportion of the Project; and d) accept Alternates in any order or combination and to determine low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

Submitted this ____ day of _____, 2024

Name: _____
By: _____
Signature _____
Title: _____

SUBSCRIBED AND SWORN TO before me
this _____ day of _____ 2024

Notary Public

STATE OF ILLINOIS)
)
COUNTY OF _____)

CONTRACTOR COMPLIANCE AND CERTIFICATIONS ATTACHMENT

Note: The following certifications form an integral part of the Agreement between the Owner and Contractor. Breach by Contractor of any of the certifications may result in immediate termination of the Contractor's services by Owner.

THE UNDERSIGNED CONTRACTOR HEREBY ACKNOWLEDGES, CERTIFIES, AFFIRMS AND AGREES AS FOLLOWS:

- A. Contractor has carefully read and understands the contents, purpose and legal effect of this document as stated above and hereafter in this document. The certifications contained herein are true, complete and correct in all respects.
- B. Contractor shall abide by and comply with, and in contracts which it has with all persons providing any of the services or Work on this Project on its behalf shall require compliance with, all applicable Federal, State and local laws and rules and regulations including without limitation those relating to 1) fair employment practices, affirmative action and prohibiting discrimination in employment; 2) workers' compensation; 3) workplace safety; 4) wages and claims of laborers, mechanics and other workers, agents, or servants in any manner employed in connection with contracts involving public funds or the development or construction of public works, buildings or facilities; and 5) steel products procurement.
- C. All contracts for this Project are subject to the provisions of the Illinois Prevailing Wage Act (820 ILCS 130/0.01 *et seq.*), providing for the payment of the prevailing rate of wage to all laborers, workmen and mechanics engaged in the Work. Contractor shall pay prevailing rates of wages in accordance with the wage determination included with the Contract Documents and any subsequent determinations issued by the Illinois Department of Labor which shall supersede the determination included in the Contract Documents, all in accordance with applicable law. Contractor is responsible for determining the applicable prevailing wage rates at the time of bid submission and at the time of performance of the Work. Failure of Contractor to make such determination shall not relieve it of its obligations in accordance with the Contract Documents. Contractor shall also comply with all other requirements of the Act including without limitation those pertaining to inclusion of required language in subcontracts, job site posting, maintenance and submission of certified payroll records and inspection of records. Contractor is not barred from entering into public contracts under Section 11a of the Illinois Prevailing Wage Act due to its having been found to have disregarded its obligations under the Act.
- D. To the best of Contractor's knowledge, no officer or employee of Contractor has been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, or any unit of local government, nor has any officer or employee made an admission of guilt of such conduct which is a matter of record.
- E. Contractor is not barred from bidding on or entering into public contracts due to having been convicted of bid-rigging or bid rotating under paragraphs 33E-3 or 33E-4 of the Illinois Criminal Code. Contractor also certifies that no officers or employees of the Contractor have been so convicted and that Contractor is not the successor company or a new company created by the officers or owners of one so convicted. Contractor further certifies that any such conviction occurring after the date of this certification will be reported to the Owner, immediately in writing, if it occurs during the bidding process, or otherwise prior to entering into the Contract therewith.

- F. Pursuant to the Illinois Human Rights Act (775 ILCS 5/2-105), Contractor has a written sexual harassment policy that includes, at a minimum, the following information: (i) a statement on the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment utilizing examples; (iv) the Contractor's internal complaint process including penalties; (v) the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission and directions on how to contact both; and (vi) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act. Contractor further certifies that such policy shall remain in full force and effect. A copy of the policy shall be provided to the Illinois Department of Human Rights upon request.
- G. Contractor shall abide by the "Employment of Illinois Workers on Public Works Act" (30 ILCS 570/0.01 *et seq.*) which stipulates that whenever there is a period of excessive unemployment in Illinois, defined as any month immediately following two (2) consecutive calendar months during which the level of unemployment in Illinois exceeds five percent (5%) as measured by the U.S. Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ not less than ninety percent (90%) Illinois laborers unless otherwise exempted as so stated in the Act. ("Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident). Other laborers may be used if Illinois laborers are not available or are incapable of performing the particular type of work involved if so certified by the Contractor and approved by the Owner.
- H. (i) Contractor's bid proposal was made without any connection or common interest in the profits anticipated to be derived from the Contract by Contractor with any other persons submitting any bid or proposal for the Contract; (ii) the Contract terms are in all respects fair and the Contract will be entered into by Contractor without collusion or fraud; (iii) no official, officer or employee of the Owner has any direct or indirect financial interest in Contractor's bid proposal or in Contractor, (iv) the Contractor has not directly or indirectly provided, and shall not directly or indirectly provide, funds or other consideration to any person or entity (including, but not limited to, the Owner and the Owner's employees and agents), to procure improperly special or unusual treatment with respect to this Agreement or for the purpose of otherwise improperly influencing the relationship between the Owner and the Contractor. Additionally, the Contractor shall cause all of its officers, directors, employees, (as the case may be) to comply with the restrictions contained in the preceding sentence.
- I. Contractor knows and understands the Equal Employment Opportunity Clause administered by the Illinois Department of Human Rights, which is incorporated herein by this reference, and agrees to comply with the provisions thereof. Contractor further certifies that Contractor is an "equal opportunity employer" as defined by Section 2000 (e) of Chapter 21, Title 42 of the United States Code Annotated and Executive Orders #11246 and #11375 as amended, which are incorporated herein by this reference.
- J. Neither Contractor nor any substantially owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.
- K. Contractor is not barred from contracting with the Owner because of any delinquency in the payment of any tax administered by the Illinois Department of Revenue, unless it is being

contested. Contractor further certifies that it understands that making a false statement regarding delinquency in taxes is a Class A misdemeanor and, in addition, voids the Contract and allows the Owner, a municipal entity, to recover in a civil action all amounts paid to the Contractor.

- L. If Contractor has 25 or more employees at the time of letting of the Contract, Contractor knows, understands and acknowledges its obligations under the Illinois Drug Free Workplace Act (30 ILCS 580/1 *et seq.*) and certifies that it will provide a drug-free workplace by taking the actions required under, and otherwise implementing on a continuing basis, Section 3 of the Drug Free Workplace Act. Contractor further certifies that it has not been debarred and is not ineligible for award of this Contract as the result of a violation of the Illinois Drug Free Workplace Act.
- M. Contractor knows, understands and acknowledges its obligations under the Substance Abuse Prevention on Public Works Act, 820 ILCS 265/1 *et seq.* A true and complete copy of Contractor's Substance Abuse Prevention Program Certification is attached to and made a part of this Contractor Compliance and Certification Attachment.
- N. The Contractor shall comply with the requirements and provisions of the Freedom of Information Act (5 ILCS 140/1 *et. seq.*) and, upon request of the Arlington Heights Park District's designated Freedom of Information Act Officer (FOIA Officer), Contractor shall within two (2) business days of said request, turn over to the FOIA Officer any record in the possession of the Contractor that is deemed a public record under FOIA.

 CONTRACTOR

By: _____
 Its: _____

STATE OF _____)
)ss
 COUNTY OF _____)

I, the undersigned, a notary public in and for the State and County, aforesaid, hereby certify that _____ appeared before me this day and, being first duly sworn on oath, acknowledged that he executed the foregoing instrument as his/her free act and deed and as the act and deed of the Contractor.

Dated: _____

 (Notary Public)
 (SEAL)

SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION

The Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1 et seq., (“Act”) prohibits any employee of the Contractor or any Subcontractor on a public works project to use, possess or be under the influence of a drug or alcohol, as those terms are defined in the Act, while performing work on the project. The Contractor/Subcontractor **[circle one]**, by its undersigned representative, hereby certifies and represents to the Arlington Heights Park District that **[Contractor/Subcontractor must complete either Part A or Part B below]**:

A. The Contractor/Subcontractor **[circle one]** has in place for all of its employees not covered by a collective bargaining agreement that deals with the subject of the Act a written substance abuse prevention program, a true and correct copy of which is attached to this certification, which meets or exceeds the requirements of the Substance Abuse Prevention on Public Works Act, 820 ILCS 265/1 et seq. **[Contractor/Subcontractor must attach a copy of its substance abuse prevention program to this Certification.]**

Name of Contractor/Subcontractor (print or type)

Name and Title of Authorized Representative (print or type)

_____ Dated: _____
Signature of Authorized Representative

B. The Contractor/Subcontractor **[circle one]** has one or more collective bargaining agreements in effect for all of its employees that deal with the subject matter of the Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1 et seq.

Name of Contractor/Subcontractor (print or type)

Name and Title of Authorized Representative (print or type)

_____ Dated: _____
Signature of Authorized Representative

IMPORTANT NOTICE OF RESPONSIBILITY FOR PERIODIC REVISIONS TO PREVAILING WAGE RATES

Revisions of the following Prevailing Wage Rates are made periodically by the Illinois Department of Labor. These may be accessed by computer at <https://www.illinois.gov/idol/Laws-Rules/CONMED/Rates/2015/july/COUNTY.HTM>. As required by the Prevailing Wage Act, any and all such revisions supersede the Department of Labor's June determination. Bidders and Contractors performing work on this Project are responsible for determining the applicable prevailing wage rates at the time of bid submission and performance of the Work. Failure of a Bidder/Contractor to make such determination shall not relieve it of its obligations in accordance with the Contract Documents. In consideration for the award to it of the Contract for this Project, the Contractor agrees that the foregoing notice satisfies any obligation of the public body in charge of this Project to notify the Contractor of periodic changes in the prevailing wage rates and the Contractor agrees to assume and be solely responsible for, as a material obligation of the Contractor under the Contract, the obligation to determine periodic revisions of the prevailing wage rates, to notify its subcontractors of such revisions, to post such revisions as required for the posting of wage rates under the Act, and to pay and require its subcontractors to pay wages in accordance with such revised rates.

PROJECT SCHEDULE

October 7, 2024 PRE-BID MEETING At Nickol Knoll	October 15, 2024 BID OPENING DATE	October 22, 2024 Board Approval	October 24, 2024 TENTATIVE BEGIN PROJECT
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Sealed bids will be received by the Arlington Heights Park District until 1 pm on October 15, 2024 and then publicly opened for furnishing the following supplies and/or services to be delivered in accordance with the following instructions:

**Bid Opening at: Arlington Heights Park District
Administration Center 410 N. Arlington
Heights Road
Arlington Heights, IL 60004**

The Contractor shall commence work on the outdoor courts starting Oct 24, 2024 (weather permitting and subject to all required paperwork). The following final seeding date ranges* are preferred for this work:

- *November 11th – 12th, 2024
- *March 15 – April 30th, 2025. **Final Completion of April 30th (Fiscal Year End).**

*Note: If weather doesn't allow Contractor to meet these dates, the work may be carried over into May of 2025, with a project completion date of June 1 with advance notice.

REFERENCES

List 5 clients for reference checks with similar retaining wall construction over 7 feet. Bidder must have completed work of a similar nature for these clients within the last five years.

Company Name	Contact Person	Phone Number
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

SUBCONTRACTORS & SUPPLIERS

The sub-contractors and suppliers listed below will be involved in this contract work in the assignments listed. We understand that any deviation from this list must be requested and approved in writing ten (10) days before the start of the work that is involved.

Failure to complete this list will result in rejection of bid. Legal name, current telephone number and address of all subcontractors must be included.

Sub-Contractors/Address

Work Assignment/Phone

Suppliers/Address/Phone

Material

Add additional sheets, as necessary, for more sub-contractors and vendors.

2024-25 PAYTON'S TEE RENOVATION
SCOPE OF WORK

- 1) General Conditions and requirements: Mobilization, equipment, administration, and if necessary, safety, protective measures, pedestrian and traffic control and debris removal and disposal, etc.
- 2) **Only Skidster and Mini Excavators may be used on the golf course grounds- no heavy equipment will be allowed.** Also, **concrete must be carted** to hole #3 and no heavy trucks are allowed on the greens or grass at the Nickol Knoll Golf Course to minimize damage and maintain the course. If needed, factor in extra time in your proposal to account for site protection.
- 3) Turf removal, staking and layout by Contractor per the plans. Turf to be removed prior to stripping topsoil. Excess soil may be relocated onsite for future uses with location to be determined.
- 4) Shaping and grading of the area, including wall, path and tee construction grades. Topsoil management may need to take place where grades are steep. This project involves some cutting off the top of the existing tee.
- 5) Golf Course Drainage involves installing new drainage pipe and tying into existing drainage where present on the site. Drainage is also needed behind the retaining wall.
- 6) Retaining Wall Readjustment. Power wash existing Pisa Stone wall area to be removed. Remove/reinstall 60lf of wall to adjust, reconstruct/ raise front wall to match new grades (7') using **an Authorized Unilock Contractor for retaining wall installation** (Three listed here and other Unilock Authorized Installers may be used-must show proof of Authorization with Unilock):
 - a. **Cutting edge Landscaping**, Mr. George Borawski, phone 847-359-7136 and 847-878-3950, 1025 W. Kenilworth Ave., Palatine, IL 60067, email: cuttingedgelandscaping@comcast.net
 - b. **Dearborn Group Inc.**, Mr. Eddie Banderowicz, phone 847-295-5548, PO Box 483 Lake Bluff, IL 60044, email: EddieB@dearborngroupinc.com
 - c. **JB Brickworks**, contact Brent, phone 847-634-6437 or 847-634-6437; 1891 Industrial Drive, Libertyville, IL 60048, email: info@jbbrick.com.

Retaining wall also requires pouring concrete footings under the wall and anchors back into the slope for support. Wall to have granular fill behind face and adequate drainage in the price. New wall to be tied into existing, and line up as best as possible. Haul remaining blocks to maintenance facility. (Unilock Certified Installer to provide shop drawings of the new wall layout to meet State and Local requirements.)

- 7) Finish Shaping includes blending all slopes, eliminating low areas and smoothing out clean topsoil in preparation for grass seed to establish.
- 8) Restoration and grassing to include Fescue seed and fescue erosion blanket as shown in the plans and specifications. Specifications also call for certain areas to be Bluegrass sod. For base bid, stair area and gravel path are to be in sod.
- 9) Synthetic Tee. Arrange qualified contractor to install artificial turf tee with products specified in the plans and specifications. List color or color choices to be provided.
- 10) DuMor Bench installation shall be embedded mount in concrete footings per DuMor's installation instructions. Contractor is responsible for assembly of the bench and the AHPD will order the bench.
- 11) Alternate Bids include a two-color synthetic tee, a Bunker Removal, an option with Lannon Stone Steps, an option constructing Copperwood treated pine steps with bound pea gravel, and finally an option to install a pea gravel path edged with steel edging and bound with Gravel-Loc or similar approved product.
- 12) Clean up and remove all debris.
- 13) Project Location:
 - a. Nickol Knoll Golf Club, Hole #3, 3800 N Kennicott, Arlington Heights, IL 60004:
<https://maps.app.goo.gl/wxGsnAze8Hy1uvE6A>

END OF PAYTON'S TEE SCOPE SECTION

OFFICIAL BIDDING FORM
2024-25 PAYTON'S HOLE RENOVATION

Contractor: _____ **Contact Name:** _____

Phone

Bid Due Date: 10/15/2024 @ 1:00 pm. Opening at 410 N Arlington Heights Rd.
Project Location: Nickol Knoll Golf Club, 3RD Hole- 3800 N. Kennicott, Arlington Heights, IL
Pre-Bid Meeting: 10/7 @ 2pm @ Clubhouse at 3800 N. Kennicott, Arlington Heights, IL
Bid Documents: Includes Drawings and Specifications
Project Schedule: 11/24/2024-04/30/2025, weather permitting.

BASE BID

I.	CONTRACTOR MOBILIZATION\$ _____
II.	TURF REMOVAL/STAKING/LAYOUT\$ _____
III.	SHAPING\$ _____
IV.	GOLF COURSE DRAINAGE\$ _____
V.	RETAINING WALL RE-ADJUST\$ _____
VI.	FINISH SHAPING\$ _____
VII.	GRASSING (INCLUDE STEPS/PATH AREA)\$ _____
VIII.	SYNTHETIC TEE (ONE COLOR)\$ _____
IX.	BENCH INSTALLATION IN CONCRETE\$ _____
BASE BID SUBTOTAL \$		_____
X.	PAYMENT AND PERFORMANCE BOND\$ _____
BASE BID TOTAL \$		_____

ALTERNATE BIDS

ALTERNATE #1- SYNTHETIC TWO-COLOR, SEAMED TEE -ADDITIONAL COST\$ _____
ALTERNATE #2- BUNKER HOLE 3 REMOVAL- ADDITIONAL COST\$ _____
ALTERNATE #3- LANNON STONE STEP INSTALLATION- ADDITIONAL COST\$ _____
ALTERNATE #4- COPPERWOOD TREATED STEPS- ADDITIONAL COST\$ _____
ALTERNATE #5- PEA GRAVEL PATH WITH BINDER- ADDITIONAL COST\$ _____

BID WORKSHEETS & PROPOSAL FORM
BASE BID WORKSHEET – HOLE 3 TEE CONSTRUCTION

I. MOBILIZATION - Includes general conditions, equipment and layout of work.

MOBILIZATION LUMP SUM\$_____

II. TURF REMOVAL - Includes the disposing of existing turf prior to the stripping topsoil. NOTE: The Contractor is responsible for defining/marketing the work limits.

2580 SF Turf Removal \$_____ /SF.....\$_____

TURF REMOVAL TOTAL.....\$_____

III. SHAPING - Grading of the area including wall, path and tee construction. It is assumed that topsoil management may need to take place where topsoil is present, and topsoil be replaced to the same depth as prior to construction.

SHAPING LUMP SUM TOTAL.....\$_____

VI. GOLF COURSE DRAINAGE – Install new and tie into existing drainage where present on the site as shown on the plans.

160 LF 4” Drain tile \$_____ /LF.....\$_____

QTY 4 - EA 12” Catch Basin \$_____ /EA.....\$_____

DRAINAGE TOTAL.....\$_____

IV. UNILOCK PISA RETAINING WALL RE-ADJUSTMENT – Power wash existing Pisa Stone wall area to be removed. Remove/reinstall 60lf of wall to adjust, reconstruct/ raise front wall to match new grades (7’) using a Unilock Certified Installer. Concrete footings to be poured under wall and anchors tied back into the slope for support. Wall to have granular fill behind face and adequate drainage in the price. New wall to be tied into existing, and line up as best as possible. Haul remaining blocks to maintenance facility. (Unilock Certified Installer to provide shop drawings of the new wall layout to meet State and Local requirements.) Total price below includes materials, labor and drawings to complete the wall portion of work.

WALL LUMP SUM TOTAL.....\$_____

VI. FINISH SHAPING - Blending all slopes, eliminating low areas, and in general puts the entire golf course at finished grade in preparation for grassing.

FINISH SHAPING TOTAL\$_____

VII. GRASSING - Application of all required seed, sod and erosion control.

a. Fescue Area Seeding– Fine grade and seeding of all disturbed and graded fescue area with mix as specified.

290 SF Fescue Seed @ \$_____ /SF...\$_____

b. Fescue Area Erosion Blanket – Install Erosion Blanket as shown as specified.

290 SF Erosion Blanket @ \$_____ /SF.....\$_____

c. **Bluegrass Sod** – Fine grade & sodding of all areas as shown on Grassing Plan as specified. For Base Bid, Gravel Path & Stair Areas to be sod and are shown below.

1050 SF Bluegrass Sod @ \$ _____/SF.....\$ _____
 66 SF Bluegrass Sod for Stair Area @ \$ _____/SF.....\$ _____
 110 SF Bluegrass Sod-Gravel Path Area @ \$ _____/SF.....\$ _____
 GRASSING TOTAL\$ _____

VIII.SYNTHETIC ARTIFICIAL TURF TEE – One standard color, note color below. **Synthetic Tee**
 – Grade and install Synthetic Tee per the plans and specifications. Base Bid to be one standard color and color is provided as part of this base bid proposal. Color to be _____.

300 SF Synthetic Tee @ \$ _____/SF.....\$ _____
 SYNTHETIC TURF.....\$ _____

XI. BENCH INSTALLATION – Install DuMor Bench as shown on the plans & specs in concrete.

BENCH INSTALL.....\$ _____

BID SUBTOTAL (I to IX)\$ _____

a. **PERFORMANCE AND PAYMENT BOND\$ _____**

BASE BID TOTAL (I to X)\$ _____

PROPOSAL FORM

- I. CONTRACTOR MOBILIZATION\$ _____
- II. TURF REMOVAL/STAKING/LAYOUT\$ _____
- III. SHAPING\$ _____
- IV. GOLF COURSE DRAINAGE\$ _____
- V. RETAINING WALL READJUST\$ _____
- VI. FINISH SHAPING\$ _____
- VII. GRASSING (INCLUDE STEPS/PATH AREA).....\$ _____
- VIII. SYNTHETIC TEE (ONE COLOR)\$ _____
- IX. BENCH INSTALLATION\$ _____

BASE BID SUBTOTAL \$ _____

X. PAYMENT AND PERFORMANCE BOND\$ _____

BASE BID GRAND TOTAL\$ _____

ALTERNATE BID WORKSHEETS & PROPOSAL FORM
ALTERNATE BID WORKSHEET – HOLE 3 ADD-ON'S

ALTERNATE BID #1 – SYNTHETIC TWO-COLOR SEAMED TEE

- I. This tee is located on the Walter Payton golf hole and part of the “Payton Hill” where Walter trained. To honor him and the Bears, we would like to use Bear’s colors for the tee surface. If possible, please provide a cost option to split the tee in a 50/50 way with Navy Blue and Burnt Orange, the Bear’s colors. This option includes seaming the two different pieces of artificial turf. Unit price includes all labor and incidentals to finish this work.

150 SF Synthetic Orange Tee @ \$ _____/SF\$ _____

150 SF Synthetic Blue Tee @ \$ _____/SF\$ _____

ALT BID #1 TOTAL-ADDITIONAL COST FOR BEAR’S COLORS.... \$ _____
PLACE THIS NUMBER ON OFFICIAL BID FORM UNDER ALTERNATE #1

ALTERNATE BID #2 – HOLE 3 BUNKER REMOVAL

- I. **TURF REMOVAL** - Includes the disposing of existing turf prior to the stripping topsoil and all necessary labor or project expenses. NOTE: The Contractor is responsible for defining / marking the limits of work. Bunker sand is to be removed by the Owner.

1140 SF Turf Removal \$ _____ /SF.....\$ _____

TURF REMOVAL TOTAL.....\$ _____

- II. **SHAPING** - Grading of the area to achieve proper surface drainage and install topsoil to a 6” minimum cover across entire area. (Topsoil shall be provided to the site by Owner and hauled and placed by the Contractor.)

SHAPING LUMP SUM TOTAL.....\$ _____

- III. **FINISH SHAPING** - Blending of all slopes, eliminating low areas, and in general puts the entire golf course at finished grade in preparation for seeding.

FINISH SHAPING TOTAL\$ _____

- IV. **GRASSING** - Application of all required sod.

Bluegrass Sod – Fine grade & sodding of all areas as shown on Grassing Plan.

1980 SF Bluegrass Sod @ \$ _____/SF.....\$ _____

GRASSING TOTAL\$ _____

ALT BID #2 TOTAL-BUNKER REMOVAL ADDITIONAL PRICE...\$ _____
PLACE THIS NUMBER ON OFFICIAL BID FORM UNDER ALTERNATE #2

ALTERNATE BID #3 – STEP INSTALLATION- LANNON STONE

- I. In the base bid, the step area is called out as 66 SF of sod on the bidding worksheet. For ALTERNATE 3#, deduct the 66 SF of sod expense and install 12 Natural Top Split face Lannon Stone Stair Steps, or approved equal, as shown on the plans and specifications. Stair steps to be approximately 16-18-inch length, 36” width and 7-8” thick. Steps to overlap 1-2 inches and have quarry dust, sand or gravel for leveling as shown in the specifications. This price below represents the additional, full cost (including all materials and labor) to install the 11-12 step stairs as shown on the plans.

ALT BID #3 TOTAL-STONE STEPS ADDITIONAL PRICE.....\$
PLACE THIS NUMBER ON OFFICIAL BID FORM UNDER ALTERNATE #3

ALTERNATE BID #4 – STEP INSTALLATION- COPPERWOOD TREATED PINE STEPS

- I. In the base bid, the step area is called out as 66 SF of sod on the bidding worksheet under Grassing. For ALTERNATE 4#, deduct the 66 SF of sod expense, then include a price to construct and install QTY. 12 Copperwood, 6” x 6” Timber Stair Steps (Stair steps to be approximately 16-18-inch length, 36” width and 6” thick) as shown on the plans and specifications. Steps to overlap 1-2 inches and have quarry dust, sand or gravel for leveling as shown in the specifications. These steps to have weed barrier fabric in each step and to be filled with pea gravel with Gravel-loc product. This price below represents the additional, full cost (including all materials and labor) to install the 12-13 step stairs as shown on the plans.

ALT BID #4 TOTAL-COOPERWOOD STEPS ADDITIONAL PRICE.\$
PLACE THIS NUMBER ON OFFICIAL BID FORM UNDER ALTERNATE #4

ALTERNATE BID #5 – PEA GRAVEL PATH INSTALLATION WITH GRAVEL BINDER

- I. In the base bid, the gravel path area is called out as 110 SF of sod on the bidding worksheet under Grassing. For ALTERNATE 5#, deduct the 110 SF of sod expense, then include a price to construct and then install 110 SF of steel gravel path with steel edging as shown on the plans and specifications. Pea Gravel Path to have Gravel-Loc or approved equal gravel binder, and steel edging to contain the mixture.

ALT BID #5-PEA GRAVEL PATH ADDITIONAL PRICE\$
PLACE THIS NUMBER ON OFFICIAL BID FORM UNDER ALTERNATE #5

DIVISION 1 - GENERAL CONDITIONS

1.00 SPECIFICATION and INFORMATION CONFLICTS

Should any specifications, information, directives, notes, tags or provisions contained in the Construction Documents conflict with any other specifications, information, directives, notes, tags or provisions contained in the Construction Documents, then the most stringent specifications, information, directives, notes, tags or provisions shall apply.

1.01 CONSTRUCTION SCHEDULE

Construction for Payton's Hole must be completed between October 24, 2024 and April 30, 2025 (weather permitting). Other dates may be arranged with advance notice. The Contractor shall submit with the bid proposal a construction plan for the work.

1.02 LIMIT of CONSTRUCTION

Construction traffic and staging shall be permitted only within the construction limits as indicated on the plan or as directed by the Owner. The Contractor is responsible for the repair of any areas disturbed inside or outside of this area, at no charge to the Owner.

1.03 CONSTRUCTION STAGING AREA and LIMITS

- a. No area has been designated on the site for the staging of construction materials. Bulk materials and equipment shall be permitted only in the construction limits as shown on the plans or as directed by the owner. Staging will be discussed at the Pre-construction meeting for the winning Bidder.
- b. Construction access shall be permitted only through the access points as determined by the Owner and the successful Contractor. The Contractor shall be responsible for protection of existing flooring, walls, doors, trees, landscaping, etc. and for replacement of any damage, at no additional cost to the Owner.

1.04 TEMPORARY SANITARY FACILITIES

- A. Provide temporary sanitary toilet facilities conforming to state and local health and sanitation regulations, in sufficient number for use of Contractor's employees.
- B. Maintain in sanitary condition and properly supply with toilet paper.
- C. Remove from site before final acceptance of work.

1.05 WORKMANSHIP

High quality craftsmanship will be expected in all phases of the work. Any elements found unacceptable and not in compliance with the contract documents will be removed and replaced by the Contractor at his expense until satisfactory results are obtained.

1.06 WATER

The Contractor shall be responsible for supplying all water and associated materials for any construction activities including hoses, connectors and miscellaneous appurtenances necessary for water needed for all remaining construction activities. The Contractor may use domestic water sources, such as hose bibs, etc., if available on-site and approved in writing by the Owner. Otherwise, arrangements must be made by the Contractor to furnish all water needed for any construction activities at no expense to the Owner. The Contractor is not allowed to use any utilities from private residences for the project.

1.07 EXCESS MATERIALS and DEBRIS

All excess materials and debris, etc. generated by this work shall be considered an incidental item to the Bid and hauled from the site. Large amounts of debris will not be permitted to accumulate on the site and must be hauled from the site on a daily basis.

1.08 HOURS

The Contractor will be allowed to schedule his normal work between the hours of 7:00 a.m. and 6:00 p.m., Monday through Friday. Work during other hours will be allowed only on an emergency basis and as authorized by the Park District.

1.09 INTERACTION WITH PARK PATRONS

The Arlington Heights Park District gives priority of use to its park patrons. The Contractor's vehicles and personnel shall be marked as to be easily identifiable by the park patrons. The work force of the Contractor shall be courteous to park patrons at all times.

The work of the Contractor shall not interfere with scheduled events in a park and shall not, within reason, interfere with patrons' enjoyment of a park area. Any conflict or potential conflict between the work force and park patron shall be reported to the Park Planner immediately. Rescheduling of work because of patron use shall not be grounds for failure to comply with frequency of service specified herein.

1.10 PUBLIC SAFETY

The Contractor shall not operate machinery in a manner that would in any way endanger park patrons. Contractor will not operate any equipment on Park District property with altered or missing guards or safety equipment.

1.11 PROTECTION OF UTILITIES

The Contractor shall protect all utilities from damage, shall immediately contact the appropriate utility if damage should occur and shall be responsible for all claims for damage resulting from Contractor's operations.

1.12 CONCURRENT OPERATIONS

This contract is a non-exclusive contract with the Arlington Heights Park District. The Arlington Heights Park District reserves the right to use other contractors or its own employees to perform work similar to that being performed under the terms of this contract. Performance of work by others shall be construed as being consistent with the terms of this contract and shall not be cause for the Contractor to cease performance of work as directed.

1.13 CLEAN-UP

At the end of each day's work and after completing the improvement, and as may be required by the Park District, the Contractor shall pick up all debris and loose material and remove them from the job site or deposit them in approved refuse containers furnished by the Contractor.

All refuse containers shall be covered and emptied as needed, in order to eliminate blowing refuse at the project site. The Contractor is responsible for the offsite disposal of all debris or excavated materials from this project. Onsite burying of material is not permitted. At the completion of this project, it will be the Contractor's responsibility to immediately restore any and all areas, services, structures, etc., which may have been damaged due to operations of the Contractor. If the Contractor fails to clean up and/or restore the site at the completion of the work, the Park District may do so, and the cost thereof shall be charged to the Contractor.

1.14 SITE PROTECTION

The Contractor shall be responsible for adequate job site safety protection. The park area is used daily by the public and adequate protection for park users must be provided.

1.15 DAMAGE TO OTHER WORK

Should the Contractor, his agents or his workers, or any of his subcontractors or material/men cause damage to the Park District, or to the work or materials of other contractors or persons, the damage and the repair or replacement of same shall be the sole responsibility of the Contractor. The repairs and replacing of damaged work shall be under the direction of the Park District, and the cost of same shall be the responsibility of the Contractor.

1.16 MEASUREMENTS

The contractor is responsible for taking all measurements and must personally inspect the courts to verify the scope of the work and understand the scope of the work identified in these bid specifications. The contractor is responsible for contacting the following individual at the facility to set up an appointment for a site inspection if they wish to perform o outside of the scheduled pre- bid meeting. **Bryan Cox (847) 590-6050.**

1.17 TIME OF COMPLETION AND WORK SCHEDULE

The Contractor, as a part of the bid, shall prepare and submit an Estimated Progress Schedule for the work. The progress schedule shall be related to the entire project to the extent required by the bid forms, and shall provide for expeditious and practical execution of the work. The Contractor shall also inform the Park District, who his project superintendent is and set up a pre-construction meeting. The superintendent shall represent the Contractor, and all communications given to the superintendent shall be as binding as if given to the Contractor. Important communications shall be confirmed in writing. Other communications shall be so confirmed on written request in each case.

END OF SECTION

SPECIAL CONDITIONS

Supplemental to the General Conditions

1. SCOPE OF WORK

- a. The contractor shall provide all materials and labor to complete all items listed in the 'Bidders Form'.
- b. The contractor shall provide a written schedule of work to be distributed to the facilities' staff for notification of patrons. This does not relieve the contractor of the responsibility of notification and public safety but is provided by the District as a service for the contractor.

2. CODES AND STANDARDS

In the event of a conflict between various codes, regulations and manuals, the more stringent requirements shall be followed.

3. OWNER'S ACCESS

The owner's representative shall at all times have access to the work site. The contractor shall keep the owner advised of the progress of the project and shall provide opportunity for the owner or his representative to inspect each phase of the project. The contractor shall provide proper and safe facilities for such access and for inspection.

4. PROTECTION OF EXISTING TREES

The contractor shall protect all existing trees to remain by clearly identifying each tree with flagging adjacent to or within the constriction zone. **No traffic, excavation or filling or stockpiling of materials or debris shall take place within the drip line of each tree unless indicated on plan.**

5. PEDESTRIAN ACCESS AND PROTECTION

- a. The contractor shall provide, install and maintain all barricades, flagging, fencing, notices, and personnel to direct and protect the public during this project to the satisfaction of the Park District.
- b. The contractor shall protect and provide safe access to the park when working on parking lots, play courts, walks, etc. The contractor shall protect the work with construction fencing or guards as necessary to keep people off the surface until all materials have sufficiently cured or dried. Damage shall be repaired at the contractor's expense.

6. PROTECTION OF EXISTING PARK PROPERTY

The contractor is hereby notified that this park must be protected against the needless damage sometimes caused by construction projects. The contractor is responsible for controlling his employees, machines and subcontractors while occupying each park site. The natural environment of the park is very delicate and needless damage is generally irreparable. Still penalties will be leveled upon the contractor for not controlling the construction sites.

- a. **For this project, only a Skidster and Mini excavator may be used to protect the existing golf course grounds and greens. Concrete must be carted to Hole #3 and no large trucks are allowed to travel on the cart paths. Any damage from not following this directive will be repaired at the Contractor's own expense.**

7. GUARANTEE OF CONCRETE WORK

Concrete work shall be guaranteed for a one (1) year period. This guarantee will be for

structural failures, as well as surface erosion due to spalling caused by frost popping soft aggregates (chert) within the concrete and surface erosion due to faulty workmanship, a high quality of workmanship will be demanded of the concrete work. All work not meeting high industry standards will be removed and replaced immediately at the contractor's expense.

8. BACKFILLING AND TOPSOIL

Topsoil removed for new walk locations shall be stockpiled and used to provide 6" minimum topsoil for all disturbed areas. This includes backfilling the curbs and areas of sidewalk removal without sidewalk replacement. Any suitable topsoil remaining after all restoration work shall be left on site as directed by Park District.

9. CONSTRUCTION NOISE RESTRICTIONS

- b. All engines and engine-driven equipment used for hauling or construction shall be equipped with an adequate muffler in constant operation and properly maintained to prevent excessive or unusual noise.

- c. Construction within 1,000 feet of an occupied residence, motel, hospital or similar receptor shall be confined to the period beginning at 7:00 a.m. and ending no later than 7:00 p.m. This time regulation shall not apply to sawing contraction joints, as required in Article 408.12 of the "Standard Specifications", maintenance or operations of safety and traffic control devices such as signs, barricades and lighting or to construction of an emergency nature.

10. CONTRACTOR'S RESPONSIBILITY

- d. The contractor is to be responsible for obtaining and complying with any and all inspections required for the work covered by this Contract.

- e. The contractor shall make every effort to keep all disturbed areas to a minimum. The operation of vehicles and the storage of equipment and material will be restricted to the existing pavement areas. Other operations outside the limits of the existing pavement area shall be coordinated with the Park District prior to construction. All disturbed areas shall be restored with 6" minimum topsoil and seed, at no additional cost to the Owner.

- f. The Park District shall be notified 72 hours prior to the start of any construction.

- g. The contractor will be responsible for construction surveying and staking.

- h. No additional monies will be paid to the contractor for lading, moving and unloading materials, including surplus materials.

- i. Any item that is damaged due to the contractor's negligence shall be replaced or repaired as directed by the Owner at no additional cost to the Contract.

- j. The contractor shall verify all field conditions prior to bidding.

11. FINAL RIM ELEVATIONS

- k. All rim elevations are approximate. The final elevation shall be determined in the field based on the final surface elevation. Any final adjustment to the structures shall be incidental to the cost for adjustment and to the cost of the structure.

12. INCIDENTAL COST ITEMS

- l. All sawcutting shall be incidental to the cost of the associated pay item. No separate

cost will be paid for sawcutting.

- m. All removal, storage and replacement of existing signage shall be incidental to the Contract.

END OF SPECIAL CONDITIONS

END OF SECTION

ARTIFICIAL TURF - SYNTHETIC TEE- BASE BID
OR APPROVED EQUAL

- A. Synthetic Turf: Submit manufacturer’s product data, including installation instructions and subsurface instructions. Submit samples of synthetic grass and infill. Submit manufacturer’s standard 10-year limited warranty.
- B. Synthetic Turf Installer Qualifications: The turf contractor shall specialize in installing the products specified in these specifications and have installed artificial turf or synthetic tees for a minimum of five years. The contractor shall be certified in writing, by the turf manufacturer, as competent in the installation of the synthetic turf material specified, including proper installation of the infill mixture.
- C. Synthetic Turf Approved Installers

Celebrity Greens - GroTurf, Inc.

Brian Groszek, President
Wheaton, IL
phone: 630-389-0800 | mobile: 847-529-8989
groturf.com | brian@groturf.com

Tour Greens of Illinois

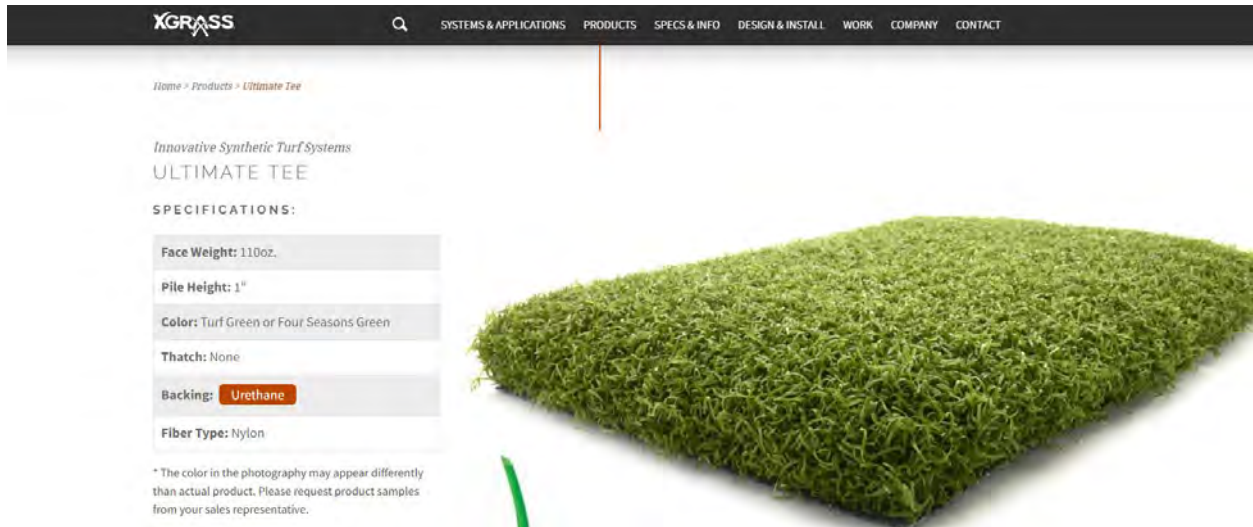
Chris Wold, President
Volo, IL
Phone: 847-445-4876
tourgreenschicago.com | chris@tourgreens.com

1.01 AGGREGATE PRODUCTS

- A. Base Material for synthetic tees and greens shall be crushed angular hard stone, ¾”-1” minus compactible, equal or similar to WisDOT Aggregate Base Course, Type B, all crushed gravel or crushed limestone, CA6. Install to the thickness indicated (after compaction).
- B. Recycled concrete shall be an acceptable substitute for gravel base under synthetic. The product must be produced and shipped in compliance with the WisDOT AGCS Program, and must be comparable in particle makeup to WisDOT Aggregate Base Course, Type B.
- C. Limestone Screenings for use as leveling base under greens shall be ¾” minus compactible stone.

1.02 SYNTHETIC TURF

Synthetic grass for Tee: XGrass® Ultimate Tee synthetic turf from XGrass 242 Duckworth Rd., Dalton, GA 30721 : Phone (877) 881-8477, or approved equal. Substitutions to be approved in advance with the Golf Course Architect or Owner.



- A. Pad Underlayment System: SofPad™ 100% recycled, non-contaminated, Post industrial cross-link, closed cell Polyethylene – polyolefin foam pad from XGrass, or approved equal.
 - 1. Foam Type: Polyethylene – Polyolefin
 - 2. Bulk Density: 5.0-8.0 lb/cu ft
 - 3. Effective Size: 24 sq ft (net coverage)
 - 4. Tensile Strength: 34-36 psi
- B. Backfill/top-dressing material: 4.75 lbs./sq.ft. Round Quartz Sand and Top Dressing
 - a. 4.5 lbs./sq.ft. of RQS (Round Quartz Sand)
 - b. 1 lb./sq.ft. of Green and Black Top Dressing
- C. Splicing Material: 1000 denier coated nylon (Cordura®) 12” wide minimum or equivalent.
- D. Adhesive: Synthetic Turf Adhesive (from Tour Greens) or equivalent.

SYNTHETIC TURF INSTALLATION

Provide all labor, materials, equipment, and tools necessary for the complete installation of a synthetic putting green surface. The system shall consist of, but not necessarily be limited to, the following:

1.01 GENERAL

- A. Quality Assurance. Comply with Specifications.
- B. Submittals. Comply with Specifications.
- C. Materials and Equipment. Comply with Specification.
- D. Warranties. Comply with Specifications.

1.02 SUMMARY

- A. Synthetic grass consisting of fibers that are a minimum of 1.125" inch long. Turf fiber construction consisting of polypropylene fibers tufted into a Triple Layer Composite Backing (primary backing), with a secondary backing of punched Urethane.
- B. Tee Turf shall consist of XGrass® Ultimate Tee Synthetic turf or equivalent.
- C. Synthetic Grass can be infilled with 16-30 sieve Silica sand which is designed to provide the look, feel, and performance of optimally maintained natural grass greens. Unimin 3060 or equivalent.

1.03 GROUND PREPARATION

- A. General: The ground area to receive synthetic grass surface is indicated on the Drawings.
- B. Leveling and Site Preparation: All organic material and organic debris to be removed. Soil to be graded level and stabilized (compacted). Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers.

1.04 BASE AND SYNTHETIC GRASS CONSTRUCTION

- A. General: The area to be smooth and graded to allow proper drainage. Refer to engineered grading plan if available.
- B. Coarse Base: Place a 7-inch coarse aggregate base compacted to 90% - 95% of max density per AASHTO T99 over prepared substrate. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers. Aggregate size should be 3/4" minus (compactible).
- C. Leveling Base: Place a 1" fine aggregate base as leveling layer directly over the coarse base. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers. Aggregate size should be 1/4" minus (compactible).
- D. Putting Cups, if applicable: Install putting cups after leveling base is completed using Cup Mounting Sleeve from Tour Greens (as shown on Drawings).
- E. Synthetic Grass: Place turf and cut to fit configuration as shown on Drawings. Splice seams. All seams must be attached with splicing film/fabric and adhesive as approved by the manufacturer for this type of installation of their product.
- F. Infill: Apply layers of synthetic grass infill evenly with a drop-spreader and broom the turf fibers with stiff bristle broom to allow infill to settle into the bottom. Broom in infill of RQS approximately 4.5 pounds per square foot.
- G. Anchoring/Edging: Edges of turf will be secured to ground with mechanical fasteners, stakes or edging.
- H. Top Dressing: The Top-Dressing application is optional, but recommended for enhanced appearance. Apply a thin layer of top-dressing with a drop spreader. Lightly brush the top-dressing to fill in areas that need additional sand and be sure to cover the RQS layer and to give a richer appearance. Repeat the process until the top-is approximately 1 pound per square foot.

- I. Rolling and Maintenance: To provide a smooth putting surface and to settle and 'lock-in' the sand infill, the green should be rolled with a smooth drum roller (300-2000 lbs.) until desired speed and smoothness are achieved. In order to maintain softness, the putting green should be brushed, top-dressed, and rolled 1 to 4 times a year for residential installations. More frequent maintenance may be required in high traffic areas such as driving ranges, golf courses, or other commercial applications.

END OF ARTIFICIAL TURF

NATURAL LANNON STONE STEPS SPECIFICATIONS- ALTERNATE #3 OR APPROVED EQUAL

Each step to be approximately 16-18" Length, 36" Width and 7-8" thickness, 11-1 total steps. Each step to overlap about 1-2", be laid on quarry dust, sand or gravel, and allow water to drain away from under the steps. Pitch each step slightly to allow water to drain off each riser as well. Other elements within Alternate# 4 include a pea gravel path at the top of the hill, reinforced with Gravel-Loc and edged with 8" steel edging- see plans by the Golf Course Architect.

The screenshot shows the Lemke Stone, Inc. website. The main navigation includes HOME, BUILDING STONE, CUSTOM CUT STONE, LANDSCAPING STONE, GALLERY, ABOUT, and CONTACT. The product page for 'Lannon Natural Top Splitface' is displayed, featuring a photo of the stone steps and a table of specifications.

USES	Landscaping Steps
COLORS	Blend of Buff, Orange & Brown
WIDTH	Custom Cut Per Order, Machine Cut Fronts
LENGTH	Up to 5'
THICKNESS	Medium: 4" - 6", Large: 7" - 8"
COVERAGE	Varies

Category: Steps

Contact information: 262-502-1579, VISIT SHOWROOMS

CATEGORIES: Building Stone, Cut Stone, Landscaping, Benches, Cobblestone & Boulders, Engraved Stones

STONE STEP RESOURCE: [How to Build Dry-Laid Stone Steps - Fine Homebuilding](#)

Stone Steps



Skip the mortar, and use packed quarry dust for a walkway that will last a lifetime

BY CODY MACFIE

Building a set of stone steps into a yard's hard-to-traverse slope improves a home's curb appeal, and it also makes walking through the yard much more enjoyable. With basic tools and materials, a little patience, and that's beyond an small amount of muscle, you can build them yourself. Stone steps can be built into any landscape in a relatively short amount of time. The steps featured here took four of us about six hours. Although the process is straightforward, you need to make some decisions and calculations before you start digging.

Choose your own stone

As with any construction project, it's important to have a budget before you begin, but be prepared: Stone isn't as cheap as it used to be, unless it comes from your own property. Prices, local stone is how costly than more shipped-over stone borders, but be mindful of inflated

LAY OUT STEPS TO ALLOW

Building stone steps is different from building a wood-frame stairway. Stone steps that don't attach to the house usually aren't governed by building codes, but when in doubt, check with your local building department. The slope you're working on determines the size and number of stones you need. Bed each stone into the hill with hand-tamped quarry dust, sand, or gravel. Unlike concrete, these materials allow water to drain around and behind the stone, keeping it dry and resistant to frost-heaving.



FOR A COMFORTABLE STRIDE

How many steps?

To determine the number and size of stones, follow these general guidelines:

- Keep tread depth between 12 in. and 18 in.
- Choose stones that are between 5 in. and 8 in. thick.
- Start with thicker stones at the bottom, gradually working up to thinner ones.
- Two stones can make one step. I often make the bottom step wider than the others, using two stones of the same thickness, as shown in the drawing below.
- Estimate the number of steps first. Divide the total run (R) by an average tread depth

of 14 in. Round to the nearest whole number to get the step estimate (N).

- Calculate the average riser height. Divide the total rise (R) by N to get the average riser height (R). If it's less than 5 in., increase the run of each tread and recalculate. If it's greater than 8 in., decrease the total run (R) by adding an extra step.
- It doesn't need to be exact. Riser height won't be uniform because stones aren't identical in thickness.



ALL THE TOOLS YOU NEED TO

MOVE AND SHAPE STONE

A 4-ft. level, a stringline, a line level, and a tape are perfect for layout on short hills; hills taller than 6 ft. are easier to measure with a transit. Use a wheelbarrow and a hand cart to haul quarry dust, sand, and stones. A square shovel is ideal for raking stones into the slope and for loosening soil from the ground. Spread quarry dust with a square-blade shovel and a heavy-duty lawn roller. Use a brick hammer, a rock hammer, and sharp and blunt chisels to shape stones. Use a rubber mallet to tap the stones around as you fine-tune the fit.

SOURCE: FINE HOMEBUILDING DRY LAID STONE STEPS, online.

END OF STONE STEPS

Lemke Stone, Inc.

21575 W. Good Hope Road
Lannon, Wisconsin 53046
Phone: (262) 502-1579 Fax: (262) 502-1580
www.lemkestone.com

Lannon Stone (Dolomite Limestone)

Ultimate Compression Strength

Dry Specimen 22,000-28,000psi

Absorption Rate less than ½%

Weight 169#/cubic foot

Lemke Stone, Inc.

P.O. Box 428
215755 W. Good Hope Road
Lannon, Wisconsin 53046
(262) 502-1579

LANNON STONE

Ultimate Compressive Strength

Dry Specimen 22,000-28,000 psi

Absorption Rate Less than ½%

Weight 169#/cubic foot



TESTWELL CRAIG MATERIALS CONSULTANTS

a Division of TESTWELL CRAIG LABORATORIES, INC.

CONSTRUCTION MATERIALS SCIENTISTS & ENGINEERS

TCMC 0291126
June 30, 1991

LEMKE STONE, INC.
21575 W. Good Hope Rd.
Lannon, WI 53046
262-502-1579

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D. Damiano
F. Luzzi, P.E.
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A. Szypula
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A. Maier
A. Pabloma
C. Scrymgeour

PHYSICAL PROPERTY STUDIES

OF

LANNON LIMESTONE

FINDINGS AND CONCLUSIONS

This report contains the test results of flexural strength, modulus of rupture, compressive strength, percent water absorption, bulk specific gravity, abrasion resistance, and Young's modulus of elasticity for Lannon Limestone.

The Lannon Limestone specimens easily meet the ASTM C568 requirements for modulus of rupture (min. 1000 psi), compressive strength (min. 8000 psi), water absorption (max. 3 %), density (min. 160 lbs/cuft.) and abrasion resistance (min. 10 hardness).

ASTM C568 (Standard Specification for Limestone Building Stone) has no minimum requirement for flexural strength and Young's modulus of elasticity.

The test results for are given in Tables 1 through 16.

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Page 2

INTRODUCTION

Specimens of Lannon Limestone were tested for physical properties of flexural strength, modulus of rupture, compressive strength, water absorption, density, and abrasion resistance in accordance with ASTM test methods.

The test specimens were received in the following surface conditions, quantities, rift directions, and dimensions:

<u>ASTM Test</u>	<u>Surface Condition</u>	<u>No. of Specimens</u>	<u>Rift Direction</u>
C-380	Hone-finished <u>Specimens Size: 22 x 3 x 2</u>	10	Perpendicular
C-380	Hone-finished <u>Specimens Size: 12 x 1.5 x 1</u>	10	Parallel
C-99	Hone-finished Specimens Size: 8 x 4 x 2.25	10 10	Perpendicular Parallel
C-170	Hone-finished Specimens Size: 2 x 2 x 2	10 10	Perpendicular Parallel
C-97	Hone-finished <u>Specimens Size: 2 X 2 X 2</u>	4	_____
C-241	Hone-finished <u>Specimens Size: 2 X 2 X 1</u>	6	_____

For each test, the submitted specimens were equally divided between Lannon Limestone

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STUDIES

The Lannon Limestone specimens were tested for physical properties of flexural strength, modulus of rupture, compressive strength, percent water absorption, bulk specific gravity (density), and the dynamic Young' modulus of elasticity in accordance with ASTM C880, ASTM C99, ASTM C170, ASTM C97, ASTM C241, and ASTM C215.

The test results are given in Tables 1 through 16. The physical properties were tested as a function of rift direction (perpendicular or parallel), specimen condition (dry or wet), and limestone type (Lannon and Ideal).

Flexural Strength

The average flexural strength for Lannon Limestone specimens are, respectively, 2400 psi and 2330 psi. The test results are listed in tables 1 thru 4.

Perpendicular Specimens

The average flexural strength values are: 3,280 psi (dry) and 2,010 psi (wet). Individual values range from 1,680 psi to 3,710 psi.

Parallel Specimens

The average flexural strength values are: 2,450 psi (dry) and 1,740 psi (wet). Individual values range from 1,360 psi to 2,680 psi.

ASTM C568 has no requirements for flexural strength.

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Modulus of Rupture

The average modulus of rupture for Lannon Limestone specimens are, respectively, 2220 psi and 3090 psi. The test results are listed in tables 7 thru 8.

Perpendicular Specimens

The average modulus of rupture values are: 3,640 psi (dry) and 2,390 psi (wet). Individual values range from 2,070 psi to 4,050 psi.

Parallel Specimens

The average modulus of rupture values are: 2,720 psi (dry) and 1,990 psi (wet). Individual values range from 710 psi to 3,870 psi.

The Lannon Limestones exceed the ASTM C568 minimum requirement of modulus of rupture (1000 psi) for high-density limestone (>160 lbs/cu.ft).

Compressive Strength

The average compressive strength for Lannon Limestone specimens are, respectively, 29,730 psi and 30,220 psi. The test results are listed in tables 9 thru 12.

Perpendicular Specimens

The average compressive strength values are: 35,020 psi (dry) and 27,820 psi (wet). Individual values range from 25,790 psi to 38,220 psi.

Parallel Specimens

The average compressive strength values are: 30,440 psi (dry) and 27,280 psi (wet). Individual values range from 19,640 psi to 34,220 psi.

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The Lannon Limestones exceed the ASTM C568 minimum requirement of compressive strength (8000 psi) for high-density limestone (>160 lbs/cu.ft).

Absorption and Density

The average bulk specific gravity and density values are 2.739 and 171.0 lbs/cu ft. The average percent water absorption value is 0.95 Wt.%. The test results are listed in Table 13.

The measured density identifies Lannon Limestone as a high-density limestone (>160 lbs/cu ft). Lannon Limestones meet the ASTM C568 requirement of water absorption (max. 3 wt%) for high-density limestone.

Abrasion Resistance

The average abrasion resistance value is 25.19 hardness. The test results are listed in Table 14.

Lannon Limestones meet the ASTM C568 requirement of abrasion resistance (min. 10 hardness) for limestone.

Young's Modulus of Elasticity

The average Young's modulus for Lannon Limestone specimens are respectively 9,840,000 psi and 11,450,000 psi. The test results are listed in tables 15 and 16.

Perpendicular Specimens

The average Young's modulus value is: 10,970,000 psi. Individual values range from 9,880,000 psi to 12,070,000 psi.

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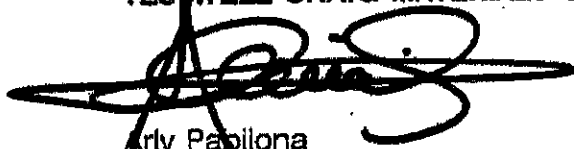
Page 6

Parallel Specimens

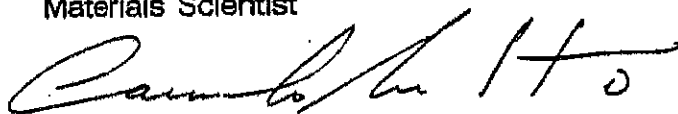
The average Young's modulus value is: 10,560,000 psi. Individual values range from 6,390,000 psi to 12,400,000 psi.

ASTM C568 has no requirements for Young's modulus.

TESTWELL CRAIG MATERIALS CONSULTANTS



Arly Paqilona
Materials Scientist



Carmelo F. Scudato, M. Sc.
Project Manager

CFS/cim
cc: A. A. Cole

Samples will be discarded after three months unless otherwise directed.

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TEST RESULTS

I. FLEXURAL STRENGTH

Flexural Strength of Lannon and Ideal Limestone as a function of rift direction (perpendicular and parallel), and test condition (dry and wet) in accordance with ASTM C880.

TABLE 1

The Lannon (L) and Ideal (I) Limestone specimens were tested for flexural strength in dry condition. The loading direction was applied perpendicular to the client-identified rift plane. The span length of the supporting knife-edges was 20 inches.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Flexural Strength (psi)</u>
L-1	2.980	2.026	2,594	3,200
L-2	2.946	1.996	2,564	3,280
L-3	2.939	1.996	2,437	3,120
I-4	3.080	1.990	3,019	3,710
I-5	3.020	1.988	2,441	3,070
Average:				3,280
Standard Deviation:				760
Coefficient of Variation:				23%

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TABLE 2

The Lannon (L) and Ideal (I) Limestone specimens were tested for flexural strength in wet condition. The loading direction was applied perpendicular to the client-identified rift plane. The span length of the supporting knife-edges was 20 inches.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Flexural Strength (psi)</u>
L-1	2.907	1.997	1,478	1,910
L-2	2.952	2.034	1,367	1,680
L-3	3.025	1.998	1,548	1,920
I-4	3.070	1.997	1,817	2,230
I-5	3.020	2.030	1,905	2,300
Average:				2,010
Standard Deviation:				250
Coefficient of Variation:				12%

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TABLE 3

The Lannon (L) and Ideal (I) Limestone specimens were tested for flexural strength in dry condition. The loading direction was applied parallel to the client-identified rift plane. The span length of the supporting knife-edges was 10 inches.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Flexural Strength (psi)</u>
L-1	1.483	1.001	529	2,670
L-2	1.468	1.064	593	2,680
I-3	1.310	1.046	446	2,330
I-4	1.361	1.022	455	2,400
I-5	1.347	1.008	395	2,160
Average:				2,450
Standard Deviation:				220
Coefficient of Variation:				9%

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TABLE 4

The Lannon (L) and Ideal (I) Limestone specimens were tested for flexural strength in wet condition. The loading direction was applied parallel to the client-identified rift plane. The span length of the supporting knife-edges was 10 inches.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Flexural Strength (psi)</u>
L-1	1.494	1.013	359	1,760
L-2	1.482	1.034	383	1,810
I-3	1.385	1.034	362	1,830
I-4	1.357	0.990	242	1,360
I-5	1.364	1.032	372	1,920
Average:				1,740
Standard Deviation:				220
Coefficient of Variation:				13%

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TEST RESULTS

II. MODULUS OF RUPTURE

Modulus of Rupture of Lannon and Ideal Limestone as a function of rift direction (perpendicular and parallel), test condition (dry and wet) in accordance with ASTM C99. The span length of the supporting knife-edges was 7 inches.

TABLE 5

The Lannon (L) and Ideal (I) Limestone specimens were tested for modulus of rupture in dry condition. The loading direction was applied perpendicular to the client-identified rift plane.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Modulus of Rupture (psi)</u>
L-1	4.03	2.291	8,156	4,050
L-2	4.00	2.302	6,775	3,360
L-3	4.00	2.258	6,684	3,440
I-4	3.99	2.250	6,789	3,530
I-5	4.00	2.294	7,640	3,810
Average:				3,640
Standard Deviation:				290
Coefficient of Variation:				8%

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TABLE 6

The Lannon (L) and Ideal (I) Limestone specimens were tested for modulus of rupture in wet condition. The loading direction was applied perpendicular to the client-identified rift plane.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Modulus of Rupture (psi)</u>
L-1	4.03	2.286	4,345	2,170
L-2	4.01	2.248	4,592	2,380
I-3	3.99	2.284	4,094	2,070
I-4	4.06	2.318	5,413	2,610
I-5	4.00	2.295	5,445	2,710
Average:				2,390
Standard Deviation:				270
Coefficient of Variation:				11%

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TABLE 7

The Lannon (L) and Ideal (I) Limestone specimens were tested for modulus of rupture in dry condition. The loading direction was applied parallel to the client-identified rift plane.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Modulus of Rupture (psi)</u>
L-1	3.99	2.227	1,347	710
L-2	3.99	2.229	4,189	2,220
L-3	3.99	2.224	3,798	2,020
I-4	4.03	2.275	7,202	3,630
I-5	4.00	2.235	7,359	3,870
I-6	4.02	2.274	7,651	3,860
Average:				2,720
Standard Deviation:				1,280
Coefficient of Variation:				47%

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TABLE 8

The Lannon (L) and Ideal (I) Limestone specimens were tested for modulus of rupture in wet condition. The loading direction was applied parallel to the client-identified rift plane.

<u>Specimen I.D.</u>	<u>Width (in)</u>	<u>Depth (in)</u>	<u>Failure Load (lbf)</u>	<u>Modulus of Rupture (psi)</u>
L-1	4.00	2.221	2,621	1,390
L-2	3.92	2.225	2,591	1,400
L-3	4.07	2.222	2,421	1,260
I-4	4.01	2.228	4,667	2,460
I-5	4.03	2.284	5,142	2,570
I-6	4.02	2.209	5,359	2,870
Average:				1,990
Standard Deviation:				720
Coefficient of Variation:				36%

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TEST RESULTS

IV. WATER ABSORPTION AND BULK SPECIFIC GRAVITY

Water absorption and bulk specific gravity of Lannon (L) and Ideal (I)
Limestone in accordance with ASTM C97.

TABLE 13

<u>Specimen I.D.</u>	<u>Absorption, Wt %</u>	<u>Bulk Specific Gravity</u>	<u>Unit Weight (lbs/cu ft)</u>
L-1	0.97	2.735	170.8
L-2	0.98	2.735	170.8
I-3	0.90	2.742	171.2
I-4	0.93	2.742	171.2
Average:	0.95	2.739	171.0
Standard Deviation:	0.04	0.004	0.2
Coefficient of Variation:	4 %	0.1 %	0.1 %

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TEST RESULTS

V. ABRASION RESISTANCE

Abrasion Resistance of Lannon (L) and Ideal (I) Limestone in accordance with ASTM C241.

TABLE 14

<u>Specimen I.D.</u>	<u>Avg. Weight, gms</u>	<u>Weight Loss, gms</u>	<u>Abrasion Resistance</u>
L-1	179.34	1.13	26.37
L-2	181.09	1.15	25.94
L-3	181.54	1.11	26.88
I-4	178.51	1.24	24.09
I-5	175.29	1.30	22.94
I-6	180.22	1.20	24.91
Average:			25.19
Standard Deviation:			1.49
Coefficient of Variation:			5.9 %

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TEST RESULTS

VI. DYNAMIC YOUNG'S MODULUS OF ELASTICITY

Young's Modulus of Lannon and Ideal Limestone as a function of rift direction (perpendicular and parallel) in accordance with ASTM C215.

TABLE 15

The Lannon (L) and Ideal (I) Limestone specimens were tested for Young's modulus in dry condition. The longitudinal vibration was applied perpendicular to the client-identified rift plane.

<u>Specimen ID</u>	<u>Area/Length, inches</u>	<u>Weight, lbs.</u>	<u>Resonant Frequency, Hertz</u>	<u>Young's Modulus, psi</u>
L-1	1.150	7.258	12,312	9,900,000
L-2	1.138	7.106	12,407	9,950,000
L-3	1.157	7.307	12,816	10,730,000
L-4	1.141	7.219	12,280	9,880,000
L-5	1.143	7.136	12,365	9,880,000
Average:				10,070,000
I-1	1.119	7.139	13,412	11,870,000
I-2	1.153	7.304	13,424	11,820,000
I-3	1.141	7.239	13,408	11,800,000
I-4	1.164	7.436	13,336	11,760,000
I-5	1.124	7.234	13,460	12,070,000
Average:				11,860,000
Average:				10,970,000
Standard Deviation:				980,000
Coefficient of Variation:				9 %

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TABLE 16

The Lannon (L) and Ideal (I) Limestone specimens were tested for Young's modulus in dry condition. The longitudinal vibration was applied parallel to the client-identified rift plane.

<u>Specimen ID</u>	<u>Area/Length, inches</u>	<u>Weight, lbs.</u>	<u>Resonant Frequency, Hertz</u>	<u>Young's Modulus, psi</u>
L-1	1.110	7.141	12,786	10,880,000
L-2	1.111	7.151	10,833	7,820,000
L-3	1.089	7.022	12,831	10,990,000
L-4	1.114	7.168	12,792	10,900,000
L-5	1.111	7.165	9,783	6,390,000
L-6	1.134	7.279	12,798	10,880,000
Average:				9,640,000
I-1	1.122	7.098	13,086	11,210,000
I-2	1.145	7.338	12,900	11,040,000
I-3	1.130	7.066	13,317	11,470,000
I-4	1.144	7.351	13,068	11,360,000
I-5	1.141	7.335	13,653	12,400,000
I-6	1.117	7.083	13,146	11,340,000
Average:				11,470,000
Average:				10,560,000
Standard Deviation:				1,690,000
Coefficient of Variation:				16 %

COPPERWOOD, OR OTHER WATER-BORNE COPPER AZOLE TREATED PINE TIMBER STEPS-
SPECIFICATIONS for ALTERNATE #4
OR APPROVED EQUAL.



Each hand-built step to be approximately 16" Length, 36" Width and 6" thickness. 18 total steps are needed. Each step to overlap about 2" and to be filled with pea gravel with specified binder as shown in the picture to the left.

Each step is fastened by an 8" galvanized steel spike nail, with two pieces of 24" rebar per step for stabilization.

20 year weed free landscape fabric is installed within each step and Gravel-loc (see specification) is applied to the pea gravel to prevent movement, yet allow drainage through the stone. Follow all manufacturer recommendations for the gravel binder.

Source: HGTV.com and Tomas Espinoza, online

Other elements within Alternate# 4 include a pea gravel path at the top of the hill, reinforced with Gravel-Loc and edged with 8" steel edging- see plans by the Golf Course Architect for the approximate location. Cooperwood spec above also applies to wood timbers around the new tee box.

WOOD TIMBER STAIRCASE: [How to Build Outdoor Wood Steps | Easy DIY Steps on a Slope | HGTV](#)

END OF TIMBER STEPS

PRO 5 Weed-Barrier® 5 oz

DeWitt Pro 5 Weed-Barrier® 5 oz is a woven, needlepunched polypropylene fabric for commercial grade weed control. Specified by leading architects, the fabric is designed to allow air, water, and nutrients through. The fabric will not rot or mildew, and is formulated to resist UV degradation. When properly covered with rock, mulch, etc to prevent UV degradation, DeWitt Pro 5 Weed-Barrier® 5 oz carries a lifetime guarantee.

Properties	Test Method	Unit	Minimum Average Roll Value
Woven Material Fiber Backing			Polypropylene Polyester
Color			Black with Gold Stripe every 12"
Construction Weave			15 x 10 or 10 x 15
Weight	ASTM D 5261	OZ/SY	5.0 Scrim 2.8 Cap 2.2
Grab Tensile Strength	ASTM D 4632	LBS	Warp 80 Weft 65
Grab Elongation	ASTM D 4632	%	Warp 15 Weft 15
Trapezoid Tear	ASTM D 4533	LBS	Warp 35 Weft 30
Puncture	ASTM D 6241	LBS	300
Water Permeability	ASTM D 4491	GAL/MIN/SF	10
Ultraviolet Exposure	ASTM D 4355	% Strength Retained	>70% after 2500 Hrs Carbon Arc Exposure
Thickness		Mils	28

*At the time of manufacturing. Handling may change these properties

Date: 06/01/23. This data sheet supersedes all previously issued data.
The above properties are typical averages.

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS THE DATE COMPILED. HOWEVER NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER ANY WARRANTY AGAINST PATENT INFRINGEMENT.

GRAVEL-LOK CLEAR POLYURETHANE BASED GRAVEL BINDER-
SPECIFICATIONS for ALTERNATES #4 AND #5
 OR APPROVED EQUAL.

Home > Gravel-Lok for Driveways and Walkways > Gravel-Lok - Clear Color - 5 Gallon



Gravel-Lok - Clear Color - 5 Gallon



Gravel-Lok - Clear Color - 5 Gallon

\$730.52

★★★★★ 3 reviews

FREE SHIPPING

✓ Estimated Delivery Date: Oct 1 - Oct 4.

SKU GLK-C5

Designed to keep gravel in place, Gravel-Lok binds various types of gravel together providing a strong-porous surface which can be installed in a wide variety of different applications and settings.

Gravel-Lok is a Polyurethane Based Gravel Binder.

Why it matters: Polyurethane binders perform far better long term than low-cost water based gravel binders. Additionally, due to their decreased strength, water based binders are not suitable for regular foot or vehicular traffic without frequent re-application.

How to Gravel Resources: [Gravel-Lok - Clear Color - 5 Gallon — Paramount Materials](#)

Coverage Rates:

Payton's Hole Pea Gravel Path to be 2" in thickness throughout and include the same, 2" thickness on the steps in Alternate #4. Pea Gravel to be washed before installation. Follow all Manufacturer recommendations.

Gravel-Lok Coverage Rates – June 2017 MIX method

In most cases, mixing 20 oz. – 24 oz. of liquid with a 5-gallon bucket of stones is ideal. Important: a plastic 5-gallon bucket is considered 'full' when the contents are filled 2" below the top of the bucket. Do not completely fill the bucket to the top with stones.

Our directions, included on every container, recommend a test to determine the correct mixing ratio because some stones absorb a little liquid during the mixing process:

Starting with a ratio of 20 oz. of liquid to 1 five-gallon bucket of stone, mix the liquid with the stones and spread out at 1-1/2" thick on a piece of cardboard or wood. Allow to rest for 10 – 15 minutes. Remove gravel. If the liquid has dripped onto the cardboard or wood then the mixing ratio is correct. If you do not see any liquid on the cardboard or wood then repeat the process using 22 oz. of liquid. Again, if you do not see any liquid on the cardboard or wood then repeat the process using 24 oz. of liquid.

MADE IN USA 

Gravel-Lok™

PERVIOUS AGGREGATE BONDING SYSTEM



JOINTS



PAVEMENTS



STONESCAPING

Gravel-Lok™

COMBINE NATURAL PEBBLES WITH A POLYURETHANE BINDER. THE MIXED FORMULA IS TROWELED IN PLACE CREATING A DURABLE, DECORATIVE, ECO-FRIENDLY POROUS SURFACE.



GRAVEL-LOK IS AVAILABLE IN TWO FORMS: CLEAR AND AMBER. EACH ONE IS AVAILABLE IN A 1 GALLON TRIAL SIZE, 5 GALLON CONTAINER AND 50 GALLON DRUM.

CLEAR BOND - UV STABLE
COLORLESS TO LIGHT YELLOW COLOR
(FOR WHITE OR ANY COLOR STONE)

AMBER BOND
AMBER COLORED
(WILL DISCOLOR LIGHT / WHITE STONES)

SUITABLE FOR RESIDENTIAL PATHWAYS, PATIOS, DRIVEWAYS, GARDEN PATHS, FRENCH DRAINS, STONE SCAPING AROUND FLOWER BEDS AND GARDENS, CITY STREET TREE PITS, TREE SURROUNDS

THE Gravel-Lok™ POROUS SURFACE SYSTEM

IS A REVOLUTIONARY PAVEMENT SYSTEM COMPOSED OF A POROUS BASE AND A BONDED AND POROUS GRAVEL SURFACE.



1. SURFACE WHICH IS CREATED BY MIXING GRAVEL-LOK CLEAR BOND WITH STONE PEBBLES AND TROWELED IN PLACE OVER OUR POROUS BASE SYSTEM.



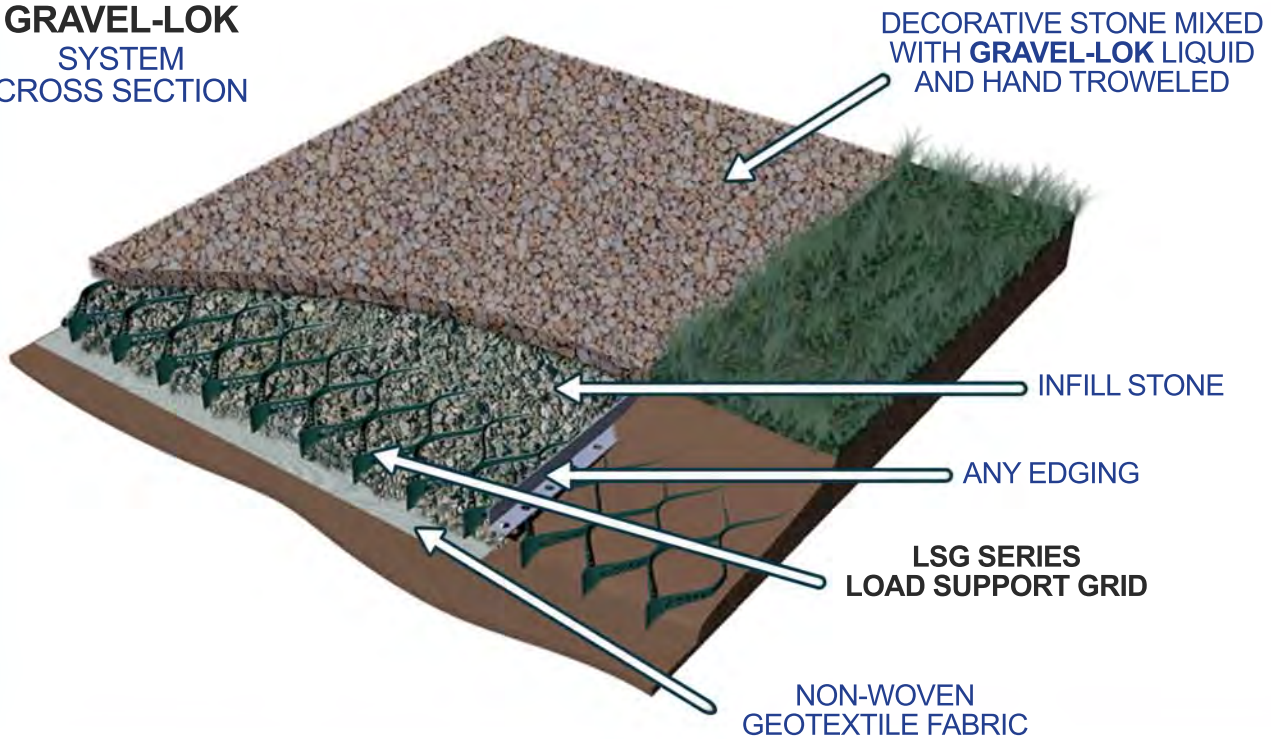
2. POROUS BASE CONSISTS OF CLEAN WASHED AGGREGATE THAT IS REINFORCED WITH CELL-TEK LSG LOAD SUPPORT GRID. LSG PREVENTS LATERAL MOVEMENT AND INCREASES THE LOAD SUPPORT OF THE AGGREGATE INFILL. THE BASE SYSTEM IS PLACED ON A GEOTEXTILE FABRIC TO FILTER OUT SEDIMENT.

TIPS FOR USING YOUR OWN STONES WITH Gravel-Lok™

- STONES MUST BE CLEAN AND DRY.
- AVOID DUSTY OR DIRTY STONES, LIMESTONES, CRUSH & RUN, STONE DUST AND DECOMPOSED GRANITE.
- GRAVEL-LOK CAN BOND TOGETHER SMALL (1/8") UP TO LARGE (2.5") STONES.
- ADA COMPLIANT WHEN USING STONES 1/8" UP TO 1/2".
- NOT ALL STONES ARE SUITABLE FOR GRAVEL-LOK, IT IS RECOMMENDED TO CREATE TEST SAMPLES PRIOR TO INSTALLATION.



**GRAVEL-LOK
SYSTEM
CROSS SECTION**



STEP BY STEP INSTALLATION INSTRUCTIONS ON BACK PAGE.

IMPORTANT INFORMATION

In most cases, mixing 20 oz. – 24 oz. of liquid with a 5 gallon bucket of stones is ideal. Important: a plastic 5 gallon bucket is considered 'full' when the contents are filled 2" below the top of the bucket. Do not completely fill the bucket to the top with stones.

Our directions, included on every container, recommend a test to determine the correct mixing ratio because some stones absorb a little liquid during the mixing process:

Starting with a ratio of 20 oz. of liquid to 1 five gallon bucket of stone, mix the liquid with the stones and spread out at 1-1/2" thick on a piece of cardboard or wood. Allow to rest for 10 -15 minutes. Remove gravel. If the liquid has dripped onto the cardboard or wood then the mixing ratio is correct. If you do not see any liquid on the cardboard or wood then repeat the process using 22 oz. of liquid. Again, if you do not see any liquid on the cardboard or wood then repeat the process using 24 oz. of liquid.

Coverage Rates for 20 oz. liquid : 5 gallon bucket of stones (1/4" – 1/2" in size)
93 sf / 5 gallon container of Gravel-Lok Liquid (18.6 sf / gallon) at 2" thick.
Note: for 1/8" size stone, use at least 24 oz. liquid.

Read MSDS (now known as SDS) and follow all safety instructions including use of proper eye, skin, and respiratory protection. It is highly recommended you make test samples before starting any job to see the effect of the liquid on the stones. Properly grade subgrade to allow water to flow away from any structures. Add drainage if necessary. Install moisture barrier if project meets a foundation with a basement. Geotextile fabric must separate aggregates from subgrade and soils on all sides of the project. All aggregates must be very clean, completely dry and free from any fine particles or dirt. The cleaner the stone, the stronger the bond. Store Gravel-Lok at 68 degrees or above until ready to use. Do not install if rain is expected within 12 hours. Do not cover with plastic. This will trap in moisture and cause premature curing. Install when outdoor temperature is 50 degrees or above and will not drop below 50 for at least 12 hours. Allow 24 hours to cure. Rope off treated area to protect it from people and animals.

**PRE-WASHED
AGGREGATES**
 AVAILABLE IN
 2 SIZES AND
 3 GREAT
 COLOR OPTIONS!

Gravel-Lok pebbles™

**FOR YOUR CONVENIENCE WE ALSO OFFER CLEAN
 WASHED PEBBLES FOR USE WITH GRAVEL-LOK LIQUID.**
 AVAILABLE IN 1/8" OR 3/8" SIZES.
 SOLD IN 2000 LB. SUPER SACKS (ON PALLET).

(NATURAL STONE COLOR VARIES BY LOT)



ROCKLEDGE



YORKTOWN



RAVENCREEK

STEP BY STEP INSTALLATION

Excavate Job Site



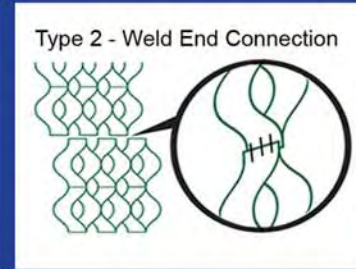
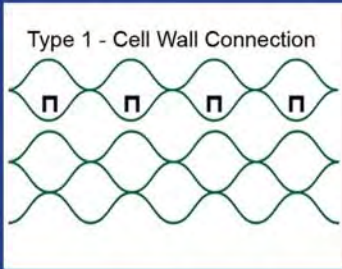
Install Geotextile Fabric



Install Stabilizer Grid



Connect Multiple Stabilizer Grids Using One Of The Following Stapling Methods



Infill Grid With
3/4" Washed Aggregates



Spread, Level & Tamp



Install Edge Restraint



Wash Stones And Allow To Dry (Or Use Gravel-Lok Pebbles).
Mix Stones With Gravel-Lok In A Cement Mixer Or Wheelbarrow



Pour Out In One Small Area



Level And Trowel To Finish



Allow 24 Hours To Cure



Apply Roller Coat



Gravel-Lok™

Note: if you are using stones which are very small (1/8") then more liquid could be required.

Coverage Rates for 20 oz. liquid : 5 gallon bucket of stones (based on using ¼", 3/8", and ½" size stone)

- At 1" thick: 186 sf / 5 gallon container (37.2 sf / gallon)
- At 1.5" thick: 124 sf / 5 gallon container (24.8 sf / gallon)
- At 2.0" thick: 93 sf / 5 gallon container (18.6 sf / gallon)

If you perform the test described above and end up using the mix ratio of 24 oz. liquid: 5-gallon bucket of stones then the coverage rates would be:

- At 1" thick: 144 sf / 5-gallon container (28.8 sf / gallon)
- At 1.5" thick: 96 sf / 5-gallon container (19.2 sf / gallon)
- At 2.0" thick: 72 sf / 5-gallon container (14.4 sf / gallon)

POUR method

The pour method actually involves sprinkling the liquid onto the stones using a plastic watering pail or gravity wand for larger jobs. Stones need to be at least 2-1/2" deep. Typical coverage rate is 90 – 100 SF per five-gallon container (18 – 20 sf per gallon).

Two "light" pours would create a stronger bond. Allow first pour to cure before applying second pour. Coverage rate for two light pours is about 70 SF per five-gallon container (14 SF per gallon). -----

----- Whether you use the MIX or POUR method, the application of a "roll coat" is highly recommended after the installation has cured (24 hours). Use a medium nap, foam paint roller. Coverage rate for a roll coat is 400 – 500 sf / five-gallon container (80 – 100 sf per gallon). Additional roll coats create an even stronger bond.

NOTES

ADA Compliance – use stones which are 1/8" up to 1/2" to create a smooth pavement for wheelchairs.

NOTE: There are 128 oz. in a gallon and 640 oz. in five gallons.

Handy Gravel Calculator:

- **At 1" thick, ½ ton of stone will cover 100 sf**
- **At 2" thick, 1 ton of stone will cover 100 sf**

END OF GRAVEL-LOC

VEVOR STEEL LANDSCAPE EDGING, 6"-
SPECIFICATIONS for ALTERNATE #5

Edging to be placed to contain the gravel portion of the seating area up to Payton’s Hill. See Golf Course Architect’s plans.



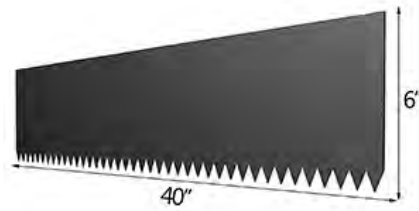
VEVOR Steel Landscape Edging 40 x 6 Inch Steel Edging for Landscaping 6pcs Steel Garden Edging
 Size: 40 x 6 inch

Description

Specification

Questions and Answers

Reviews



- Material: Galvanized Steel
- Quantity: 6 PCS
- Thickness: 0.07"/1.8 mm
- Length: 40 inch
- Height: 6 inch

Specification

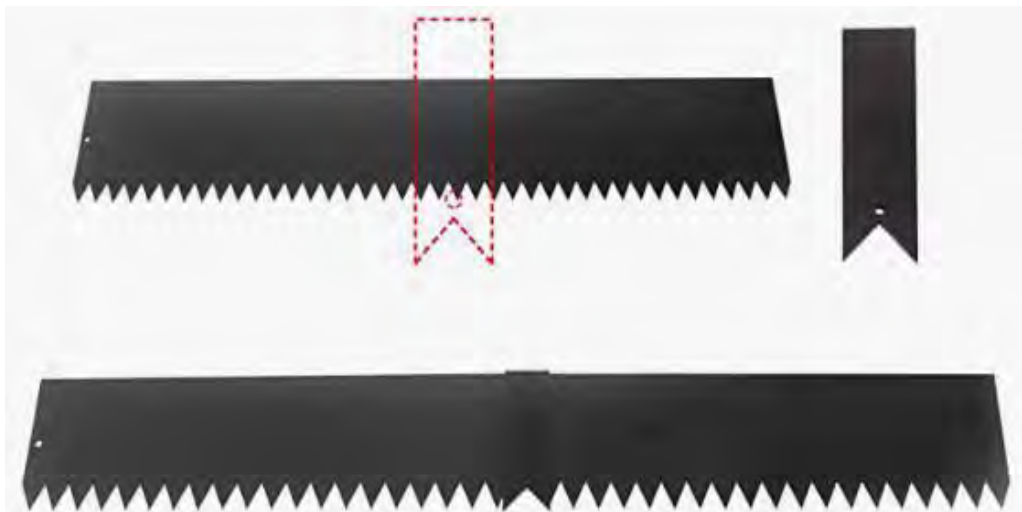
Material	Galvanized Steel	Quantity
Thickness	0.07"/1.8 mm	Length
Height	6 inch	Manual

ASSEMBLY INSTRUCTION

LANDSCAPE EDGING



CONNECTOR CLIP



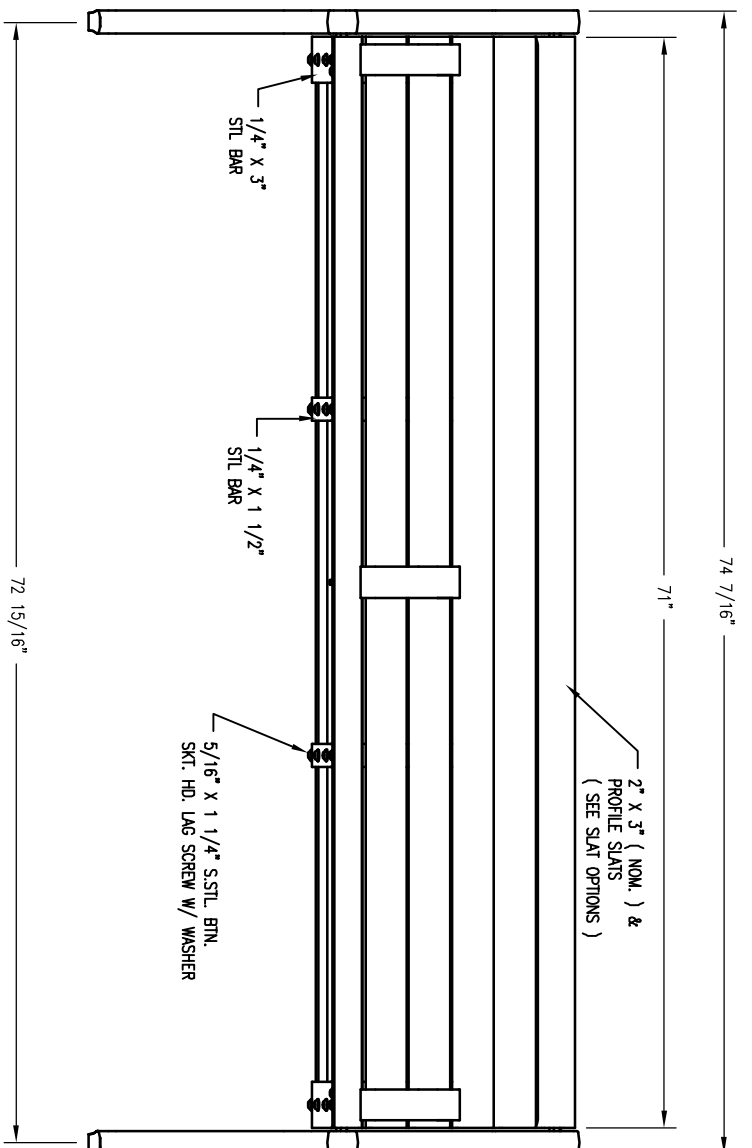
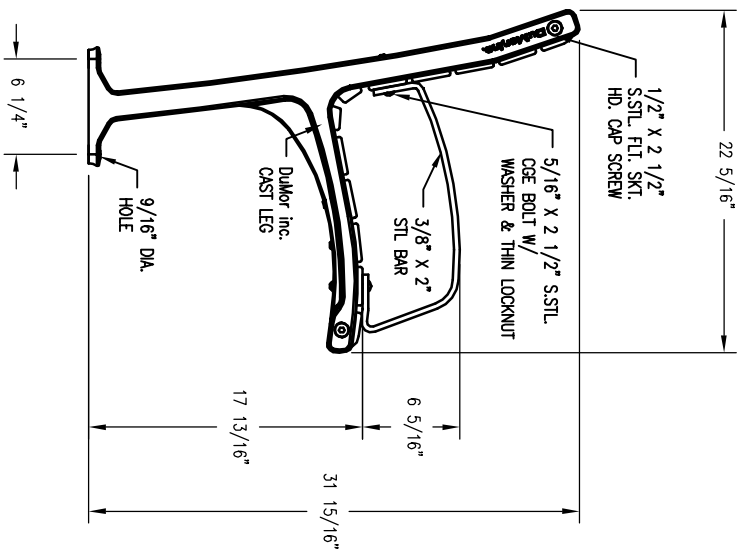
Our hammer-in landscape edging is easy to install, you only need to insert it into the soil of the garden or lawn to build a barrier for different areas. The connector is used to connect two landscape edgings.

DUMOR BENCH MODEL 185 WITH 2 ARM RESTS-
SPECIFICATIONS for BASE BID

DuMor Bench #185 in recycled cedar plastic wood and blue metal. This is an embedded mount and concrete footings are needed within the pea gravel or sod area. This bench will be ordered by Owner and installed by the winning Bidder. See installation instructions and cut sheets.



DuMor Representative: NuToys Leisure Products, Mr. Rick Beiterman, 708-579-9055, 10560 W. Cermak Road, Westchester, IL 60154, for any questions.

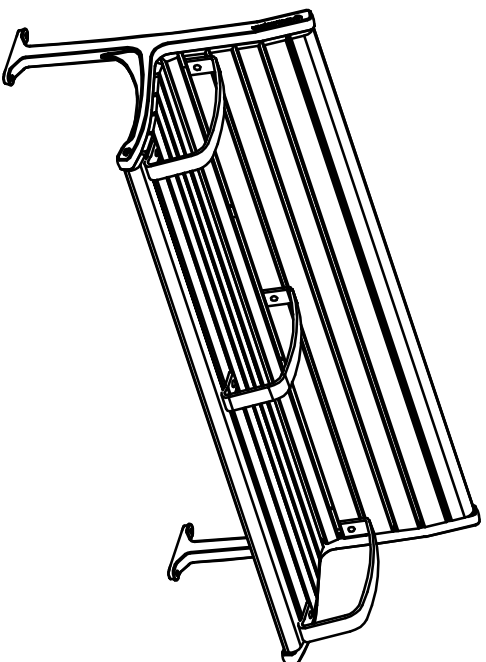


SLAT OPTIONS

- "CEDAR" RECYCLED PLASTIC
- "GREY" RECYCLED PLASTIC
- "REDWOOD" RECYCLED PLASTIC
- "WALNUT" RECYCLED PLASTIC
- OTHER _____

NOTES

- 1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
- 2.) 1/2" x 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.



BENCH

DATE DRAWN : 05/28/20
DRAWN BY : ESS
DATE REV. :
REV. BY :

REV. A

DRAWING NUMBER

185-60PL-3AR

SHEET 1 OF 2

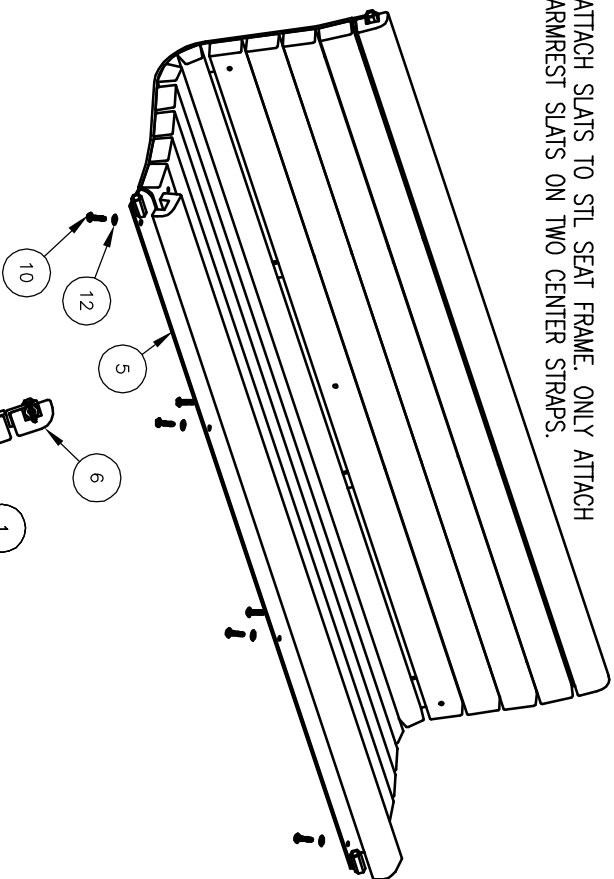
NOTES:

- 1) DURING ASSEMBLY PROCEDURE: DO NOT COMPLETELY TIGHTEN HARDWARE.
- 2) THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING.
- 3) UPON COMPLETION OF ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.
- 4) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D

- 3/4" WRENCH
- 1/2" WRENCH
- 1/4" ALLEN WRENCH
- 5/16" ALLEN WRENCH
- 1/2" MASONRY DRILL BIT
- DRILL

1 ATTACH SLATS TO STL SEAT FRAME. ONLY ATTACH ARMREST SLATS ON TWO CENTER STRAPS.

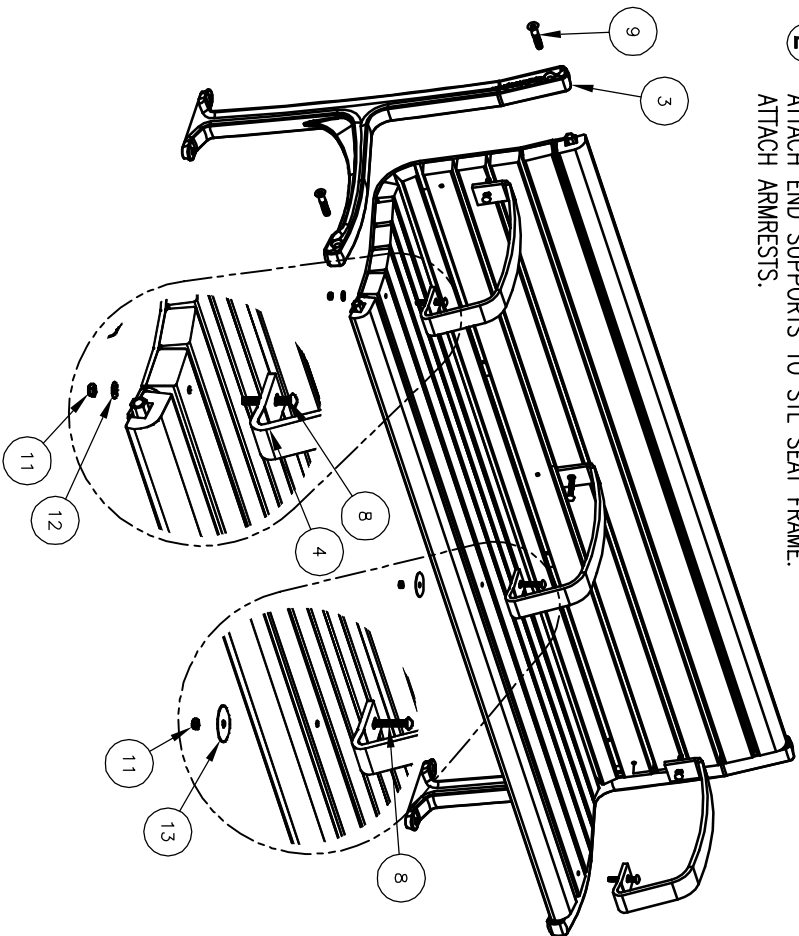


SLAT LAYOUT

KITS PROVIDED

ITEM	QTY	PART NO	DESCRIPTION
14	1	K-ANCO860-4	1/2" X 3 3/4" SS ANCHOR KIT (4PC)
15	2	K-BL0524-24	5/16" LAG HARDWARE KIT (24PC)
16	3	K-CG0540-2TL	HARDWARE KIT
17	1	K-FC0840-4	1/2" CAP HARDWARE KIT (4 PCS)

2 ATTACH END SUPPORTS TO STL SEAT FRAME. ATTACH ARMRESTS.



PARTS LIST

ITEM	QTY	PART NO	DESCRIPTION
1	6	0-143-60PL-01	2" X 3" X 71" INTR SLAT, PLASTIC
2	2	0-165-60PL-03	71" TRAP SLAT, PLASTIC
3	2	0-185-00-01	DUCTILE IRON END SUPPORT
4	3	0-185-00-05	3/8" X 2" STL ARMREST
5	1	0-185-60-02	6" STL SEAT FRAME
6	2	0-185-60PL-05	71" EDGE SLAT, PLASTIC
7	2	0-185-60PL-33	2" X 3" X 71" SLAT FOR ARMREST, PLASTIC
8	6	1-11-035	5/16" X 2 1/2" SS CGE BOLT
9	4	1-12-065	1/2" X 2 1/2" FLI SKT HD CAP SCR
10	44	1-13-023	5/16" X 1 1/4" SS BRN SKT HD LAG
11	6	1-20-020	5/16" SS THIN INCLON LOCKWUT
12	48	1-22-017	5/16" SS FLAT WASHER
13	2	1-22-032	3/8" X 2" OD SS STANDARD FENDER WASHER

DUMOR, inc.

ASSEMBLY INSTRUCTIONS

DATE DRAWN : 05/28/20
 DRAWN BY : ESS
 DATE REV. :
 REV. BY :

REV. A

DRAWING NUMBER

185-60PL-3AR

SHEET 2 OF 2

EROSION MAT

GENERAL

The contractor shall install Futerra Turf Reinforcement Mat (TRM) and Futerra F4 Netless blanket (or approved equal) as supplied by Profile Products and installed per the Manufacturer's recommendations for the proposed lake expansions and recontouring on hole #3. The mat shall be installed after the grading has been approved and the topsoil has been spread to the appropriate depth. Fertilization shall occur prior to laying the blanket. Seeding may be completed following installation of the mat.

PRODUCTS

ACCEPTABLE MANUFACTURER, or equal.

**PROFILE Products LLC
750 Lake Cook Road –
Suite 440 Buffalo Grove,
IL 60089
800-366-1180 (Fax 847-215-0577)
www.profileproducts.com**

END OF EROSION MATTING

END OF SECTION

GRASS SEED PLANTING- ROUGHS
SPECIFICATIONS WITH BASE BID

General - A satisfactory method of sowing shall be employed, making use of approved mechanical power-drawn seeders, mechanical hand-seeders, or other approved methods. When delays in operations carry the work beyond the most favorable planting season for the specified turfgrass, or when conditions are such, by reason of drought, high winds, excessive moisture, or other factors, that satisfactory results are not likely to be obtained, the work will be stopped by the Owner or Designer and shall be resumed only when directed. If an inspection, either during seeding operations or after seeding emergence, shows that strips have been left unplanted, or other areas skipped, the Owner or Designer shall require the Contractor to prepare and reseed these areas at the expense of the contractor.

PLANTING DATES

Planting dates -All seeding shall be done at such times that the climatic conditions are favorable for the proper growth of the specified types of turfgrass. In accordance to the proposed construction schedules, all fall sod work shall be completed by November 11, 2024 and all seed shall be dormant seeded after this date. If construction takes place in the spring, all seed and sod shall be completed by April 30, 2025.

After all areas to be planted have been amended and fertilized, these areas shall then be "floated out" in preparation for planting. The final seedbed must be smooth and sufficiently soft in order for the grass to be planted therein (85% compaction or less). The condition of the seedbed in all areas must be approved by the Designer or Superintendent prior to planting.

EQUIPMENT -ROUGH

Drop Gandy (type) or slit seeder making two (2) passes adjacent to fairways, tee surfaces and green collars. Broadcast (type) can then be used on remaining area -two (2) perpendicular directions for seeding minimum.

Broadcast Seeding -Seed shall be broadcast or drop seeded as designated by the Designer or Superintendent by approved sowing equipment, at the rates and types listed above. The seed shall be uniformly distributed over the designated areas. On areas such as fairways, the seed shall be sown in two (2) different directions. The seed shall be covered to an average depth of one-half inch (1/2") by means of a cultipacker or other approved device. Broadcast seeding shall not be done during windy weather (over 5 miles per hour). The Contractor will be required to repair, at his cost, any areas outside of the specified locations that are contaminated with seed not specified for said location due to his negligence.

COMPACTING

Immediately after seeding, the entire area shall be compacted either with a cultipacker or a roller weighing 60 to 90 pounds per linear foot. If seeding is performed with a cultipacker-type seeder, compacting can be eliminated.

GRASS TYPES AND RATES

All seed under this Section of the Specifications shall be certified as to 98 percent genetic purity and 90 percent germination by the United States Department of Agriculture, or other agency approved by the Designer. All seed and sod must be approved by the Owner and Designer prior

to planting.

The grass type for all roughs shall be the following:

Fescue Seed

- Tradition Fine Fescue mix. Seed at 100lbs/acre

https://dlfpickseed.com/Files/Files/SRO_USA/Tech_Sheets/Turfgrass/Fine_Fescue/tradition_ts-2018.pdf

SODDING

Supply and install HGT Bluegrass sod as supplied by Greensource USA, Pete Kiraly (847) 404-4346, or approved equal. Substitutions to be approved in advance with the Golf Course Architect or Owner.

SUBMITTALS

Product Data: Submit manufacturer’s product data and installation instructions. Include required substrate preparation, list of materials and application rate.

Certifications: Manufacturer shall submit a letter of certification that the product meets or exceeds all technical and packaging requirements.

DELIVERY, STORAGE AND HANDLING

Deliver materials and products in UV and weather-resistant factory labeled packages. Store and handle in strict compliance with manufacturer’s instructions and recommendations. Protect from damage, weather, excessive temperatures and construction operations.

PRODUCTS

ACCEPTABLE MANUFACTURER, or equal.

DLF/Pickseed

175 West H Street
Halsey, OR 97348

Scott Debolt
(615) 579-4172

POST-PLANT RESPONSIBILITIES

PROTECTION

Immediately after seeding or sodding, the area shall be protected by the Contractor against traffic or other use by erecting stakes/rope and barricades as needed, and by placing approved warning signs at appropriate intervals.

MAINTENANCE OF PLANTED AREAS

Immediately after all areas have been planted, the Contractor will water to saturation (daytime water only) the seeded areas. Immediately following the completion of the sod installation, the Contractor shall thoroughly water the sod as specified under the “Grassing- Tees, Fairways and Roughs” section, roll the sod with rollers capable of ensuring adequate contact between the sod and the moist soil. After this watering, rolling and approval of the golf hole by the Designer and

Owner, it shall be the Owner's responsibility to maintain the planted areas.

No maintenance of the golf course of any type shall be required of the Contractor other than the requirement of the above for initial watering of an approved golf hole. Erosion damage or any other type of damage not caused by the Contractor after planting and initial watering is the responsibility of the Owner.

SATISFACTORY GERMINATION OF SEEDED AREAS

Satisfactory survival will be evidence when a solid stand of seedlings are produced, free of all foreign materials and erosion. Any rough areas that do not produce sufficient growth within 21 days of planting shall be replanted. Any tee, green or fairway areas that do not produce sufficient growth within 14 days of planting shall be replanted at no cost to Owner.

Since the proper growth and cultivation of turfgrass is dependent upon a variety of factors beyond the control of the Contractor, the Contractor will not be responsible for failure of planted areas to demonstrate satisfactory germination if his operations are impaired by Acts of God, extremely unusual weather conditions (meaning 20 percent beyond normal range in temperature and 200 percent beyond normal range in rainfall), and/or unusual or uncontrollable disease or insect attacks.

The Contractor shall take all necessary precautions to prevent any damage to existing trees, foliage, plant materials and property of the Owner outside the area of work under this Section.

**END OF PLANTING ROUGHS
END OF SECTION**

**GRASSING STABILIZATION-
SPECIFICATIONS WITH BASE BID**

GENERAL

The contractor shall install Futerra F4 Netless blanket (or approved equal) as supplied by Profile Products and installed per the Manufacturer's recommendations. The mat shall be installed after the grading has been approved and the topsoil has been spread to the appropriate depth. Fertilization and seeding shall occur prior to laying the blanket.

PRODUCTS

ACCEPTABLE MANUFACTURER, or equal. Substitutions to be approved in advance with the Golf Course Architect or Owner.

PROFILE Products LLC
750 Lake Cook Road – Suite 440
Buffalo Grove, IL 60089
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www.profileproducts.com

**END OF GRASSING STABILIZATION
END OF SECTION**

UNILOCK PISA STONE

Website: [PISA 2™ Walls and Verticals | Unilock Chicago](#)

Pisa™

Pisa is the most versatile residential and commercial retaining wall block on the market today. Use Pisa to construct projects from low walls to high walls.

APPLICATIONS – Design and build projects such as planters, steps, grill islands, pillars, seat walls and water features. Can be used for straight and curved installations (Radius 5' is the tightest radius).

CAPACITY – Gravity walls up to 39" (1m). Geogrid reinforced walls up to 20 ft. (6.1m).

RECOMMENDED BASE STABILIZATION – one layer of DriveGrid™ stabilization grid between subgrade and base material. Use under Standard Base or Permeable Base.

STANDARD BASE – Min. 6" – 8" of ¾" Crusher Run gravel (any road base standard in accordance with ASTM-D2940) compacted to 98% Standard Proctor Density (SPD).

ALTERNATIVE PERMEABLE BASE – Min. 6" – 8" of ¾" clear open-graded stone compacted to achieve full particle lock-up and consolidation. (Clear open-graded does not compact but does consolidate slightly by rattling the particles together.)

LEVELING – Leveling retaining wall blocks directly on top of gravel is tedious and generally does not yield the best results. U-Grip Base units or universal base pads are recommended under all Unilock walls for improved accuracy and speedier installation. Additional benefits include long term structural integrity and an overall better appearance. Poured concrete leveling pads, reinforced with rebar, are also a great way to accomplish leveling, particularly for larger installations. You must ensure that the concrete is poured and finished perfectly in order to achieve a good visual appearance.

CONNECTION – features a tongue and groove connection. Use appropriate concrete adhesive for connection between units where the key has been removed or for corners. Always read adhesive manufacturers' directions prior to gluing.

HANDLING – No specific handling instructions.

COPING - This wall requires coping. Choose a manufactured coping such as Unilock Universal Coping or any of our natural stone coping options. Install with tight joints or 3/16" gap between units and amend with an exterior latex caulking. Cutting may be required; a diamond blade saw is required to cut coping properly. Glue all coping using a specially formulated concrete adhesive that is strong and will not break down over time. Always read adhesive manufacturers' directions prior to gluing.

**END OF UNILOCK PISA STONE
END OF SECTION**