

**BRISTOL TOWNSHIP – MARIE LOWE DRIVE COMMUNITY CENTER – PUBLIC IMPROVEMENTS
CONTRACT 2023-07025**

BID ADDENDUM #1 – June 23, 2023

1. Sec 01 22 00 – Measurement and Payment has been updated to reflect the addition of the kitchen hood, exhaust fan, ductwork, and sinks to the scope of the Plumbing Contract. In addition, shop drawings for these items have been uploaded to the Addendum #1 folder as well as the Plans folder on PennBid.
2. Sec 01 22 00 – Measurement and Payment has been updated to include the installation of the proposed playground in the Site Contract. In addition, drawings of the playground equipment have been added to the Addendum #1 folder as well as the Plans folder on PennBid. Playground equipment is to be provided by the Township. The bid form for the Site Contract has also been updated to include the addition of this item.
3. Sec 01 22 00 – Measurement and Payment has been updated to include any electrical work necessary (wiring, boxes, etc.) to provide power to electrical and plumbing equipment is to be provided by the Electrical Contractor.
4. Sec 01 12 00 – Summary of Work has been updated to reflect that the playground equipment is to be provided by the Township, and installation of the equipment shall be the responsibility of the site contractor.

Bidders are required to acknowledge the receipt of Bid Addendum #1 by signing and including this form their bid package. Please acknowledge the receipt of Bid Addendum #1 by signing and uploading with your bid to the PennBid website.

Signed _____

Printed _____

Title _____

Company Name _____

SECTION 01 12 00

SUMMARY OF PROJECT

PART 1 - GENERAL

1.01 SECTION DESCRIPTION

A. The Work of This Section Includes:

1. Description of Work.
2. Administrative and procedural sections applicable to all contracts.
3. Temporary facilities and services sections applicable to all contracts.
4. Contracts.
5. Alternate manufacturer.
6. Work by Owner.
7. Work by other parties.
8. Owner supplied Products.
9. Contractor use of site and premises.
10. Future work.
11. Project sequence of construction.
12. Owner occupancy.
13. Availability of lands.
14. Permits.

1.02 RELATED SECTIONS

A. Related Work Specified Elsewhere:

1. Division 01 – General Requirements
2. Divisions 02 through 46 (as used) – Technical Requirements

1.03 DEFINITIONS

- ###### A.
- The term Contractor, as used throughout this Section, shall mean the prime contractor on any given contract, unless language is specific to one contract.

1.04 DESCRIPTION OF WORK

- ###### A.
- Work under the three (3) contracts comprises the construction of public improvements at the Marie Lowe Drive Community Center. The Work to be done involves furnishing all materials, machinery, equipment, tools, supplies, transportation, labor, and supervision required to construct improvements to the Bristol Township Marie Lowe Drive Community Center as

SUMMARY OF PROJECT

shown on the Contract Drawings and specified herein.

The General Contract Work consists of but is not limited to: mobilization, traffic control, installation and maintenance of Erosion and Sedimentation Controls, demolition, clearing & grubbing, grading, stormwater facilities, pavement installation, installation of asphalt parking lot, installation of site amenities, curbing, concrete pads, fencing, landscaping, selective demolition, metal wall façade installation, vinyl flooring installation, painting of interior walls and door frames, installation of new gutters/roof drains, and suspended acoustic ceiling system installation. Contractor is responsible for installing the concrete pavilion footers (sealed engineered drawings to be provided by the manufacturer), along with installing the pavilion shade system in accordance with the manufacturer's specifications. Contractor is responsible for coordination with all other contractors to ensure proper installation of the items of this contract. Alternate #1 Work under the Site Contract involves the repainting of the existing metal siding of the community center as well as the installation of exterior metal trim along all four (4) corners of the Community Center. Alternate #2 Work under the Site Contract involves laying grass sodding instead of final seeding for the site.

The Electrical Contract work consists of but is not limited to: mobilization, conduit, wiring and lighting, and installation of new utility pole as shown on the Site Plans and Architectural Plans. Contractor is responsible for installing a new utility pole, as well as the transfer of any electrical lines to the new pole. Contractor is also responsible for exterior and interior electrical wiring and installation of interior electrical equipment within the Community Center building that is to be renovated in accordance with the Site Plans and Electrical Plans. Contractor is responsible for coordinating with all other contractors to ensure proper installation of the items of this contract.

The Plumbing Contract work consists of but is not limited to: mobilization and installation of indoor plumbing facilities as shown on the Plumbing Plans. Contractor is responsible for installing the plumbing equipment in accordance with the Plumbing Plans. Contractor is responsible for coordinating with all other contractors to ensure proper installation of the items of this contract.

- B. The Work is divided among three (3) contracts below. The limits of the work under each of these contracts are described and specified under the section numbers listed in this Section of the Project Manual:

1. Contract 21-07025-01: General
2. Contract 21-07025-02: Electrical
3. Contract 21-07025-03: Plumbing

1.05 PROJECT COORDINATOR DEFINITION & RESPONSIBILITIES

- A. The General Contractor shall act as the Project Coordinator and shall be responsible for coordination between the General Construction Contractor, Electrical Contractor, and Plumbing Contractor and for work/materials to be done or provided by owner.
- B. Project Coordinator shall perform Project coordination activities for the multiple contracts, including, but not limited to, the following:
1. Provide overall coordination of the Work.
 2. Coordinate shared access to workspaces.
 3. Coordinate product selections for compatibility.

3. Provide overall coordination of temporary facilities and controls.
4. Coordinate, schedule, and approve interruptions of permanent and temporary utilities, including those necessary to make connections for temporary services.
6. Coordinate construction and operations of the Work with work performed by each Contract.
7. Prepare coordination drawings in collaboration with each contractor to coordinate work by more than one contract.
8. Coordinate sequencing and scheduling of the Work, including an Initial Coordination Meeting with Contractors, Owner, and Township Engineer; preparation of a combined Contractor's Construction Schedule for the entire Project and submit for approval.
9. Provide progress photographic documentation.
10. Provide quality-assurance and quality-control services specified in Section 01 40 00 "Quality Requirements."
11. Project Coordinator shall be responsible for the overall safety and security of the site.
12. Coordinate sequence of activities to accommodate tests and inspections, and coordinate schedule of tests and inspections.
13. Provide information necessary to adjust, move, or relocate existing utility structures affected by construction, including irrigation.
15. Provide progress cleaning of common areas and coordinate progress cleaning of areas or pieces of equipment where more than one contractor has worked.
16. Provide final cleaning of buildings and site prior to Final Completion.
17. Coordinate cutting and patching.
18. Coordinate protection of the Work.
19. Coordinate completion of interrelated punch list items.
20. Coordinate preparation of Project Record Documents if information from more than one contractor is to be integrated with information from other contractors to form one combined record.

1.06 GENERAL REQUIREMENTS OF ALL CONTRACTS

- A. Extent of Contract: Unless the Agreement contains a more specific description of the Work of each Contract, requirements indicated on Drawings and in Specification Sections determine which contract includes a specific element of the Project.
 1. Unless otherwise indicated, the work described in this Section for each contract shall be complete systems and assemblies, including products, components, accessories, and installation required by the Contract Documents.
 2. Trenches, other excavation, and backfill for the work of each contract shall be the work of each contract for its own work.

3. Furnishing and installation of access panels for the work of each contract shall be the work of each contract for its own work. Any patching required as a result of access panel installation shall be the work of each contract.
4. Equipment pads for the work of each contract shall be the work of each contract for its own work.

1.07 ADMINISTRATIVE AND PROCEDURAL SECTIONS APPLICABLE TO ALL CONTRACTS

- A. Section 01 22 00: Measurement and Payment
- B. Section 01 29 00: Contract Considerations
- C. Section 01 31 00: Coordination and Meetings
- D. Section 01 33 00: Submittals
- E. Section 01 40 00: Quality Control
- F. Section 01 42 13: Organization and Reference Acronyms
- G. Section 01 60 00: Material and Equipment
- H. Section 01 70 00: Contract Closeout
- I. Section 01 75 00: Starting of Systems
- J. Section 01 78 23: Operation and Maintenance Manual

1.08 TEMPORARY FACILITIES AND SERVICES SECTIONS APPLICABLE TO EACH CONTRACT

- A. Section 01 50 00: Construction Facilities and Temporary Controls

1.09 MARIE LOWE DRIVE COMMUNITY CENTER- PUBLIC IMPROVEMENTS No. 21-07057-01: General

A. Division 01 - General Requirements:

1. Contractor Mobilization
2. Administrative and procedural sections listed above.
3. Section 01 32 06: Audio-Video Taping
4. Section 01 57 13: Soil Erosion and Sediment Control

B. Provide all Work identified in, but not limited to the following Divisions:

1. Division 02 – Existing Conditions
2. Division 03 – Concrete
3. Division 10 – Specialties
4. Division 12 – Furnishings

5. Division 31 – Earthwork
 6. Division 32 – Exterior Improvements
 7. Division 33 – Utilities
- C. Provide all Work identified in the Site Improvement and Erosion and Sediment Control Drawings.
- D. The general extent of the Work under Contract 21-07025-01: General includes, but is not limited to, the following main tasks. The proposed sequence of construction is listed below, as well as shown on sheet 8 of the Site Improvement Plans.
1. Install rock construction entrances as shown on plans.
 2. Install silt fences and compost socks, tree protection, rock filter outlets and all other erosion and sediment control measures on site.
 3. Perform site demolition activities and site clearing and grubbing. Stockpile topsoil where designated.
 4. Perform bulk excavation and rough grading to establish subgrade of parking lots, driveways, walkways, patios, and concrete pads.
 5. Construct underground infiltration basin. Construct underground basin, but do not construct inlet pipes or outlet pipe. Underground basin shall be protected from sediment by installing inlet protection on adjacent inlets.
 6. Construct subsurface seepage pit. seepage pit shall be protected from sediment by installing inlet protection on adjacent inlets.
 7. Begin building vestibule and renovations.
 8. Install storm conveyance piping and structures, immediately install inlet protection to all new inlets.
 9. Rough grade rain garden, Maintain a minimum of 12" above planting soil subgrade. Install outlet control structures, headwalls, flared end sections, and rip rap aprons to rain garden. Protect rain garden BMP from sedimentation and compaction throughout construction. Rain gardens shall not receive runoff until the contributory drainage area has achieved final stabilization. Roof drain may be disconnected at any time.
 10. Install curbing and fencing.
 11. Fine grade remaining site.
 12. Stabilize site with permanent vegetation.
 13. Final pave driveways and parking lots and install walkways.
 14. Prepare rain garden for installation of planting soil.
 15. Once the contributory drainage areas to the underground infiltration basin are stabilized, final connection of all storm sewer entering and discharging from the underground infiltration basin may be made.

16. After the site has been stabilized, all temporary E&S controls shall be removed. Areas disturbed during the removal of E&S control BMPs shall be stabilized immediately.

1.11 MARIE LOWE DRIVE COMMUNITY CENTER – PUBLIC IMPROVEMENTS: 21-07025-02: Electrical

A. Division 01 - General Requirements:

1. Administrative and procedural sections listed above.
2. Temporary facilities and services section listed above.
3. Contractor Mobilization.

B. Provide all Work identified in Division 26.

C. Provide all Work identified in the Site and Electrical Plans.

D. The general extent of the Work under Contract 21-07025-02: Electrical includes but is not limited to the tasks described in Section 01-22-00: Measurement and Payment as well as shown on the Electrical Plans.

1.12 MARIE LOWE DRIVE COMMUNITY CENTER – PUBLIC IMPROVEMENTS: 21-07025-03: Plumbing

A. Division 01 - General Requirements:

1. Administrative and procedural sections listed above.
2. Temporary facilities and services section listed above.
3. Contractor Mobilization.

B. Provide all Work identified in Division 22.

C. Provide all Work identified in the Site and Plumbing Plans.

D. The general extent of the Work under Contract 21-07025-03: Plumbing includes but is not limited to the tasks described in Section 01-22-00: Measurement and Payment as well as shown on the Plumbing Plans.

1.13 WORK BY OWNER

- A. No other work is being planned by Owner at the Marie Lowe Drive Community Center during construction of the Work under this contract.

1.14 WORK BY OTHER PARTIES

- A. Aside from the three individual contracts identified above, the Owner plans to install the proposed playground in accordance with the manufacturer's specifications at the Marie Lowe Drive Community Center during construction of the Work under this contract.

1.15 OWNER SUPPLIED PRODUCTS

- A. The owner will supply the shade sail material to the General Contractor for installation. Contractor to install per manufacturer's requirements.

- B. The owner will supply the playground equipment, installation of playground equipment to be performed by Site Contractor.

1.16 CONTRACTOR USE OF SITE AND PREMISES

- A. The Work under these contracts must be accomplished following normal Township working hours of 7:00 am to 5:00 pm, Monday through Friday.
- B. Contractor shall take all necessary precautions to protect all existing water, gas, electric, communications, sanitary sewer, storm sewer, or other facilities encountered during the course of his operations, to guard against disruption of service. Before beginning Work, Contractor shall determine the location of each utility/facility. The location of utilities shown on the Drawings represents the best information available; however, it is the responsibility of the Contractor to establish the exact location in accordance with Pennsylvania Act 287 (1974) as last amended by Pennsylvania Act 121 (2008). A Utility User's List is noted on the Drawings.
- C. Contractor will be responsible to notify Owner and Engineer at least seventy-two (72) hours prior to the start of construction on or near their properties.
- D. Contractors shall conduct all Work in strict compliance with OSHA Construction Workplace Safety Standards.

1.17 FUTURE WORK

- A. No future work is being proposed.

1.18 PROJECT SEQUENCE OF CONSTRUCTION

- A. Notice to Proceed.
- B. Contractor shall submit a shop drawing submittal schedule within ten (10) days of the Effective Date of the Agreement. All items with delivery dates greater than ten (10) weeks shall be accompanied by a letter from the manufacturer with specific delivery time.
- C. Contractor shall submit shop drawings for all items having delivery times greater than eight (8) weeks within thirty (30) days from the starting date of the Notice to Proceed. All shop drawings for the Project shall be submitted within sixty (60) days from the starting date of the Notice to Proceed.
- D. Preconstruction Meeting
- E. Within ten (10) days of the Effective Date of the Agreement, Contractor shall submit to Engineer for review a copy of a detailed proposed construction schedule.
- F. The sequences of construction, as defined on each contract's plan sheets, will be followed.
- G. Contractor may propose an alternate sequence of construction subject to prior approval by Engineer.

1.19 OWNER OCCUPANCY

- A. The owner will not need use of the site during the course of construction. The contractor shall ensure construction fencing is in place to prevent unauthorized access of the site.

1.20 AVAILABILITY OF LANDS

- A. The OWNER currently owns the property associated with the above noted work.
- B. CONTRACTOR shall stage equipment according to the Drawings and as directed by the Owner.

1.22 PERMITS

- A. Each Contractor shall complete all construction work in accordance with and prior to expiration of any and all governmental and agency permits and approvals that have been issued for this project. The owner has obtained BCCD permits for this project. General Contractor is responsible to obtain time extensions or time renewals for these permits and approvals as needed. The Contractor is required to obtain all necessary permits beyond those obtained by the Township, including but not limited to Building Permit, etc. The contractor is required to follow the requirements of the permits, including ensuring inspection as required during the course of the construction. All Bristol Township fees will be waived for any required permit.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION

SECTION 01 22 00

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Measurement and payment criteria applicable to the Work performed under a Unit Price payment method.

1.02 PROCEDURE

- A. All measurements for payment will be based on completed work, performed in accordance with the Drawings and Project Manual, and with the Agreement's "Schedule of Bid Items".
- B. The Resident Project Representative shall take all measurements and compute quantities relative to all work completed under the Agreement in accordance with the methods included in this section. Contractor shall assist by providing necessary equipment and personnel as required.
- C. In cases where the payment clause for an item in this section relating to the lump sum price requires that the said unit or lump sum price cover and be considered compensation for certain work or material essential to the item, this same work or material shall not be measured or paid for under any other item which may appear elsewhere in this section.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.01 CONTRACT 21-07025-01: GENERAL CONTRACT

1. MOBILIZATION

A. Measurement

Measurement for this work is lump sum and constitutes furnishing all materials and equipment necessary to complete the work associated with this contract. This item also includes providing a Work in accordance with:

Section 01 29 00 – Contract Considerations
Section 01 31 00 – Coordination and Meetings
Section 01 33 00 – Submittals
Section 01 40 00 – Quality Control
Section 01 50 00 – Temporary Facilities and Controls
Section 01 56 39 – Landscape Protection
Section 01 60 00 – Material and Equipment
Section 01 70 00 – Contract Closeout

B. Payment

Payment for this item shall be made at the contract unit price as determined in the Bid Schedule. One half (50%) of the contract lump sum amount for this item will be paid with the first payment application. The remaining 50% will be paid upon

MEASUREMENT AND PAYMENT

satisfactorily completing 50% of the total original contract amount. This is a lump sum item for the entire contract. No additional payments for Mobilization will be paid as part of the Contract Work. Mobilization shall be performed and payment will be made in accordance to Section 01 71 13 "Mobilization" of the contract.

2. DEMOLITION

A. Measurement

Measurement of demolition of existing paving, stone, concrete, bollards, gates, etc., will be as Lump Sum per the drawings, details and specification Section 02 41 16.

B. Payment

Payment for the demolition of existing paving, stone, concrete, bollards, gates, etc., shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and removal of existing paving, stone, signs, gate, light poles, concrete, etc. as shown on the drawings. Any partial removal not to the correct depth or incomplete areas will be the responsibility of the Contractor to remove at no additional cost to the Owner.

3. CLEARING & GRUBBING

A. Measurement

Measurement for Clearing and Grubbing of the site will be Lump Sum per the drawings, details, and specifications Section 31 11 00.

B. Payment

Payment for the Clearing & Grubbing shall be made as part of the Lump Sum cost bid for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and removal of vegetation, trees, stumps, roots, debris, and topsoil in accordance with PennDOT Pub. 408 specifications section 201 and 810. Any partial removal not to the correct depth or incomplete areas will be the responsibility of the Contractor to remove at no additional cost to the Owner.

4. TEMPORARY SEEDING

A. Measurement

Measurement for seeding will be Lump Sum per the Drawings, details, and specifications.

B. Payment

Payment for the installation of seeding shall be made as part of the Lump Sum cost bid for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for installation and maintenance, of temporary seeding, including any hay matting as necessary. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of seeding to the satisfaction of the Bucks County Conservation District throughout the project duration.

5. SILT SOCK

A. Measurement

Measurement of soil erosion and sediment control Silt Sock will be as determined in the field per linear foot placed, maintained, and removed per the drawings, details and PADOT Publication 408-866 specifications.

B. Payment

Payment for the installation, maintenance, and removal of soil erosion and sediment control Silt Sock shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for installation, maintenance, and removal. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of Silt Sock to the satisfaction of the Bucks County Conservation District throughout the project duration.

6. ROCK CONSTRUCTION ENTRANCE

A. Measurement

Measurement for the Rock Construction Entrance will be Each per the Project Manual and Drawings.

B. Payment

Payment for the stone construction entrance will be made at the applicable unit price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment required to install, maintain, and remove the rock construction entrances as more fully defined elsewhere in the Project Manual and/or on the Drawings.

7. TREE PROTECTION FENCE

A. Measurement

Measurement of this item will be based on the actual linear feet of tree protection fence installed, maintained, and removed in accordance with the Project Manual and Drawings. Measurement for the length will be taken along the centerline of the fence. Appurtenances, fittings and access gates will not be measured and paid for separately.

B. Payment

Payment for Tree Protection Fence shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing, maintaining, and removal of the Tree Protection Fence as shown on the Drawings.

8. LOD CONSTRUCTION SAFETY FENCING

A. Measurement

Measurement of this item will be lump sum for the 6' high chain link construction fence installed, maintained, and removed in accordance with the Project Manual and Drawings. Measurement for the length will be taken along the centerline of the fence. Appurtenances, fittings and access gates will not be measured and paid for separately.

B. Payment

Payment for construction fencing shall be made as part of the Lump Sum cost bid for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing, maintaining, and removal of the 6' high chain link construction fencing as shown on the Drawings.

9. INLET PROTECTION

A. Measurement

Measurement for this item shall be as determined in the field for each Siltsack Inlet Protection installed, maintained and removed for Type 'M' & 'C' Inlets as indicated on the drawings.

B. Payment

Payment for Siltsack Inlet Protection shall be made at the contract unit price as listed in the Bid Schedule. 50% will be paid upon installation. 50% will be paid upon removal. This price shall constitute full compensation for the furnishing of all labor, materials, equipment, mobilization, and maintenance and protection of traffic necessary for the proper installation, maintenance, and removal of the inlet protection. Contractor shall install Siltsack Inlet Protection at locations indicated on the Drawings. Siltsack Inlet Protection shall remain in place until site stabilization has been achieved as determined by the Bucks County Conservation District and/or Engineer as required. Any repairs or reinstallation will be the responsibility of the contractor at no additional cost to the owner.

10. EARTHWORK

A. Measurement

Measurement for Earthwork will be Lump Sum per the Drawings, details, and specifications, and shall include stripping of topsoil, stockpiling, rough grading, fine grading, respreading a minimum of 6" stockpiled topsoil, and disposing of unsuitable material.

B. Payment

Payment for this item shall be made at the applicable unit price listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, and maintenance necessary for stripping of topsoil, stockpiling, rough grading, fine grading, respreading a minimum of 6" stockpiled topsoil, and disposal of unsuitable material as needed. This price shall include all other related work necessary to complete rough and fine grading, including import of fill or export of cut as necessary, as more fully defined elsewhere in the Project Manual and/or shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of the topsoil stockpile to the satisfaction of the Bucks County Conservation District throughout the project duration.

11. 1.5" 9.5MM SUPERPAVE WEARING COURSE

A. Measurement

Measurement for 1.5" 9.5 MM Superpave Wearing Course will be as determined in the field per Square Yard of wearing course installed. Superpave wearing course shall be a compacted thickness of 1.5" of 9.5 mm Superpave, PG 64-22, 0.3 to 3 million ESALs, SRL-H min., refer to project manual SECTION 32 12 00.

B. Payment

Payment for the 1.5" 9.5 MM Superpave Wearing Course shall be made at the contract unit price for this item. This price shall constitute full payment for furnishing all labor, materials, equipment, and traffic control necessary for the site pavement. The work bid for consists of all labor, equipment and materials to install wearing course for the trails and parking lots. Any temporary paving installed per SECTION 32 12 23 to maintain access shall be incidental to this pay item. Wearing Course shall be in accordance with the latest editions of PennDOT Publication 408, Section 410& 413. Asphalt materials shall be based on PennDOT's **June 2023 Asphalt Cement Price Index. Any walkways and ADA parking areas must meet ADA accessibility guidelines.**

12. 2.5" 12.5MM SUPERPAVE BASE COURSE

A. Measurement

Measurement for 2.5" 12.5 MM Superpave Base Course will be as determined in the field per Square Yard of base course installed. Superpave Base Course shall be a compacted thickness of 2.5" of 12.5 mm Superpave, PG 64-22, 0.3 to 3 million ESALs, SRL-H min., refer to project manual SECTION 32 12 00.

B. Payment

Payment for the 2.5" 12.5 MM Superpave Base Course shall be made at the contract unit price for this item. This price shall constitute full payment for furnishing all labor, materials, equipment, and traffic control necessary for the site pavement. The work bid for consists of all labor, equipment and materials to install base course for the trails. Any temporary paving installed per SECTION 32 12 23 to maintain access shall be incidental to this pay item. Base Course shall be in accordance with the latest editions of PennDOT Publication 408, Section 313 & 316. Asphalt materials shall be based on PennDOT's **June 2023 Asphalt Cement Price Index. Any walkways and ADA parking areas must meet ADA accessibility guidelines.**

13. 6" PENNDOT 2A COARSE AGGREGATE

A. Measurement

Measurement for PennDOT 2A Coarse Aggregate will be as determined in the field per Square Yard of PennDOT 2A Coarse Aggregate placed for the asphalt trails and parking lot.

B. Payment

Payment for the PennDOT 2A Coarse Aggregate shall be made at the contract unit

price for this item. The work bid consists of all labor, equipment, materials and maintenance and protection of traffic necessary to install the stone subbase material for new paving, including removal and disposal of existing unsuitable material in areas designated by the Owner, and installation of geofabric. All PennDOT 2A Coarse Aggregate shall be in accordance with the latest edition of PennDOT Publication 408, Section 703 and Project Manual Section 32 12 23. Work associated with this item that requires EXCAVATION, BACKFILL AND COMPACTION per SECTION 31 23 33 shall be incidental to this pay item.

14. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS

A. Measurement

Measurement of this item will be based at the Lump Sum price for all items required for the pavement markings to be installed as shown on the Drawings.

B. Payment

Payment for the installation of the parking lot pavement markings shall be made at the contract unit price listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, accommodation of traffic as necessary for the installment of traffic paint for the handicap symbols, parking stall lines, and gore striping, and all work intended and incidental thereto as more fully defined elsewhere in the Project Manual and/or on the Drawings. Payment for TRAFFIC SIGNS shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing the flat sheet signs on breakaway steel posts as shown on the Drawings. This includes, but is not limited to, the flat sheet sign, anchors, breakaway steel post, bolts, nuts, and all other miscellaneous anchoring devices required in accordance with the latest edition of PennDOT Publication 408, Section 931, Section 10 14 53 of Project Manual, and recommended by the manufacturer.

15. ADA/PENNDOT COMPLIANT TRUNCATED DOMES

A. Measurement

Measurement for this item shall be as determined in the field for each ADA/PennDOT Compliant Truncated Domes placed as shown on the Drawings.

B. Payment

Payment for the ADA/PennDOT Compliant Truncated Domes shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full payment for providing and furnishing all labor, materials, equipment, and traffic control necessary for the installation of ADA Compliant Truncated Domes. Demolition and hauling of existing concrete, restoration of existing features, excavation, placement of stone base, vertical adjustment of existing valves to finish grade, and adjustments to the concrete portions of the curb ramps required for the proper installation of the truncated domes shall be included in the unit price bid for this item. The detectable warning surfaces shall extend the entire width of the curb ramp, perpendicular to the direction of travel. Truncated domes shall be a colonial red embedded cast-in-place detectable warning surface and as specified in the Contract Documents. ADA Compliant Truncated Domes shall be in accordance with the latest editions of PennDOT Publication 408, Section 695 and Publication 72, RC-67. **No separate pay item shall be made for any adjustments to the concrete portions of the ramps required for the proper installation of the truncated domes.**

16. 18" CONCRETE CURB

A. Measurement

Measurement for this item shall be as determined in the field per linear feet of 18" Vertical/Depressed Concrete Curb installed. Vertical/Depressed Concrete Curb shall be constructed of 3,500 PSI, air-entrained concrete cement.

B. Payment

Payment for the installation of 18" Vertical/Depressed Concrete Curb shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, traffic control, roadway, stone, sealant, and lawn restoration necessary to install 18" Vertical/Depressed Concrete Curb. Contractor shall set up formwork, place and install 18" Vertical/Depressed Concrete Curb as shown on the drawings. Depressed curb at ADA/PennDOT complaint ramps shall be constructed in accordance with the drawings. There should be a **6" reveal** in all parking lots. **Contractor shall apply Aquaron 2000 Cure and Seal immediately upon the removal of the formwork.** Curb line sealing is incidental to the installation of all curb and asphalt. All concrete work shall be in accordance with the latest editions of PennDOT Publication 408, and Publication 72, RC-64, and RC-67. Contractor is responsible for verifying that the final grades, slopes and dimensions are in compliance with the above publications.

17. 4" CONCRETE PAVING

A. Measurement

Measurement for this item shall be as determined in the field per square foot of 4" Concrete Paving installed. 4" Concrete Paving shall be constructed of 3,500 PSI, air-entrained concrete cement over 6" #57 stone.

B. Payment

Payment for the installation of 4" Concrete Paving shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, traffic control, roadway, stone, sealant, and lawn restoration necessary to install all proposed sidewalk, plaza, and concrete pad under the proposed shade sail using 4" Concrete Paving. Contractor shall set up formwork, place and install 4" Concrete Paving as shown on the drawings. All concrete work shall be in accordance with the latest editions of PennDOT Publication 408, and Publication 72, RC-64, and RC-67. Contractor is responsible for verifying that the final grades, slopes and dimensions are in compliance with the above publications.

18. 6" CONCRETE DRIVEWAY APRON

A. Measurement

Measurement for this item shall be as determined in the field per square feet of 6" Concrete Driveway Apron installed. 6" Concrete Driveway Apron shall be constructed of 3,500 PSI, air-entrained concrete cement over 6" #57 stone.

B. Payment

Payment for the installation of 6" Concrete Driveway Apron shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, traffic control, roadway, stone, sealant, and lawn restoration necessary to install 6" Concrete Slab. Contractor shall set up formwork, place and install 6" Concrete Driveway Apron as shown on the drawings. Contractor shall apply Aquaron 2000 Cure and Seal immediately upon the removal of the formwork. All concrete work shall be in accordance with the latest editions of PennDOT Publication 408, and Publication 72, RC-64, and RC-67. Contractor is responsible for verifying that the final grades, slopes and dimensions are in compliance with the above publications.

19. PRECAST CONCRETE BENCH

A. Measurement

Measurement for Precast Concrete Bench will be as determined in the field per EACH, installed per contract drawings and spec SECTION 12 93 00.

B. Payment

Payment for Precast Concrete Bench shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the benches as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner.

20. 4' ORNAMENTAL PICKET FENCE & GATES

A. Measurement

Measurement for Ornamental Picket Fence & Gates will be as determined in the field per linear feet of 4' Ornamental Picket Fence & Gates, installed per contract drawings and spec SECTION 05 73 00.

B. Payment

Payment for 4' Ornamental Picket Fence & Gates shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the benches as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner.

21. 4' CHAIN LINK FENCE & GATES

A. Measurement

Measurement for Chain Link Fence & Gates will be as determined in the field per linear feet of 4' Chain Link Fence, installed per contract drawings and spec SECTION 32 31 10.

B. Payment

Payment for 4' Chain Link Fence & Gates shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the benches

as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner.

22. 6' SHADOW BOX FENCE ENCLOSURE & DOUBLE SWING GATE

A. Measurement

Measurement for this item shall be as determined in the field per linear feet of 6' Shadow Box Fencing installed as specified on the plans.

B. Payment

Payment for the 6' Shadow Box Fence Enclosure shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and installation of fencing as shown on the drawings. This includes all concrete foundations and ties as necessary to support the fence posts and fencing. The fencing shall be black vinyl with black powder coated posts. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

23. SHADE SAIL INSTALLATION

A. Measurement

Measurement for this item shall be as lump sum as based on the installation of the Shade Sail in accordance with the Project Manual and as indicated on the Drawings.

B. Payment

Payment for the Shade Sail shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for installing the Owner-Supplied Shade Sail as shown on the Drawings. This includes, but is not limited to grading, stone, compaction, excavation, reinforcing, footings, erection, shade sail installation and all other work intended and incidental thereto in accordance with the design specifications and recommendations by the manufacturer, and as more fully defined in the Project Manual and/or shown on the Drawings. Shade sail material is to be provided by the Owner, installation is the responsibility of the contractor.

24. FINAL SEEDING

A. Measurement

Measurement for seeding will be determined in the field per square foot, including placement and installed once topsoil is installed at final grade per the Contract Documents and Drawings.

B. Payment

Payment for the installation of seeding shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the seed as shown on the Drawings, this includes but is not limited to temporary placement. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of seeding to the

satisfaction of the Bucks County Conservation District throughout the project duration.

25. SPECIALTY SEEDING AREAS

A. Measurement

Measurement for seeding will be determined in the field per square foot of each special seed mix place in the rain garden areas once topsoil is installed at final grade per the Contract Documents and Drawings.

B. Payment

Payment for the installation of specialty seeding shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the seed as shown on the Drawings, this includes but is not limited to temporary placement, raking of topsoil, and seeding supplements. The following seed mixtures should be installed as defined and in the locations shown on the plans: **ERNST Perennial Food & Cover Wetland Seed Mix and Native Detention Area Seed Mix.** Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of seeding to the satisfaction of the Bucks County Conservation District throughout the project duration.

26. TREES, SHRUBS (PER PLANT LIST)

A. Measurement

Measurement for TREES & SHRUBS (PER PLANT LIST) will be as determined in the field per EACH, installed per contract drawings and spec SECTION 32 92 00.

B. Payment

Payment for TREES & SHRUBS (PER PLANT LIST) shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing the trees and shrubs as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of trees and shrubs to the satisfaction of the Bucks County Conservation District at project completion. Work associated with this item that requires EXCAVATION, BACKFILL AND COMPACTION per SECTION 31 23 33 shall be incidental to this pay item.

27. STORM PIPE

A. Measurement

Measurement for this item shall be as determined in the field for linear feet of Storm pipe installed. Storm Pipe shall be sized as specified on the plans.

B. Payment

Payment for the installation of Storm pipe shall be made at the contract unit price as listed in the Bid Schedule. This price shall constitute full compensation for the

furnishing of all labor, materials, equipment, mobilization, and maintenance and protection of traffic necessary for the installation of the HDPE or PVC Pipe including but not limited to excavation, backfill, pipe, dewatering, and permits. This item includes the removal, hauling and disposal of excess soil and/or waste material. The price shall include root trimming or pruning, tree protection, excavation, removal, hauling and disposal of all excess material, trenching, sheeting and/or shoring the trench where required by OSHA standards, pumping and bailing, laying, cutting and joining of the pipe, cutting for holes in existing structures, pipe bedding, cutting, supporting the underground structures and utilities, geotextile, soft digging around services, replacement of necessary services, earth and stone backfill, removal and resetting of existing features, landscape restoration and all other related work required to complete the installation of the storm sewer pipe as more fully defined elsewhere in the Project Manual and/or shown on the Drawings. Any necessary tree root trimming or pruning to ensure proper installation is incidental to this item.

28. 2'X4' TYPE 'C' INLET

A. Measurement

Measurement for this item shall be as determined in the field for each 2' x 4' Type 'C' Inlet installed as indicated on the drawings.

B. Payment

Payment for the installation of 2' x 4' Type 'C' Inlet shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of 2' x 4' Type 'C' Inlet. The price shall include protection of existing utilities, excavation, furnishing and installing inlet and ADA compliant bicycle safe inlet tops, pipe connection, placement and compaction of 2A stone backfill, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of 2' x 4' Type 'C' Inlet as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

29. 24" YARD INLET WITH FRAME & GRATE

A. Measurement

Measurement for this item shall be as determined in the field for each 24" Yard Inlet with Frame & Grate installed as indicated on the drawings.

B. Payment

Payment for the installation of 24" Yard Inlet with Frame & Grate shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of 24" Yard Inlets with Frame & Grate. The price shall include protection of existing utilities, excavation, furnishing and installing inlets and ADA compliant bicycle safe grates, frame, placement and compaction of 2A stone backfill, installation of snouts, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of 24" Inlet with Frame & Grate as more fully defined elsewhere in the Project Manual and/or shown on the

Drawings.

30. 18" FILTER INLET

A. Measurement

Measurement for this item shall be as determined in the field for each 18" filter inlet installed as indicated on the drawings.

B. Payment

Payment for the installation of 18" filter inlet shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of the 18" Filter Inlet. This price shall include protection of existing utilities, excavation, furnishing and installing inlet, frame, grate, placement and compaction of 2A stone backfill, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of 18" Filter Inlet with Frame & Grate as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

31. NYLOPLAST STORM MANHOLE

A. Measurement

Measurement for this item shall be as determined in the field for each Nyloplast Storm Manhole as indicated on the drawings.

B. Payment

Payment for the installation of Nyloplast Storm Manhole shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of the Nyloplast Storm Manhole. This price shall include protection of existing utilities, excavation, furnishing and installing manholes, frame, grate, placement and compaction of 2A stone backfill, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of Nyloplast Storm Manhole as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

32. RAIN GARDEN

A. Measurement

Measurement of this item will be lump sum based on the installation and completion of the Rain Garden in accordance with the Project Manual and as indicated on the Drawings.

B. Payment

Payment for the Rain Garden shall be made at the applicable lump sum price listed in the bid schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for installation of the Rain Garden. This

includes, but is not limited to grading, stone, compaction, amended soils, underdrain, slope protection, anti-seep collars, cleanouts, and all other work intended and incidental thereto in accordance with the design specifications, and as more fully defined in the Project Manual and/or shown on the Drawings.

33. STONE SEEPAGE PIT/INFILTRATION BASIN

A. Measurement

Measurement for this item shall be as determined in the field per cubic yard of Stone Seepage Pit/Infiltration Basin installed as specified on the plans.

B. Payment

Payment for the Stone Seepage Pit/Infiltration Basin shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, excavation, bedding, geotextile, stone, and backfill as shown on the drawings. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner. Storm structures and piping associated with the stone seepage pit/infiltration basins to be installed and paid per separate line items.

34. BUILDING RENOVATIONS

A. Measurement

Measurement for this item shall be lump sum as based on the building renovations shown in the Architectural Drawings and as specified on the plans.

B. Payment

Payment for the Building Renovations shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, selective demolition, replacement of VCT flooring in main room of Community Center, replacement of ceiling tiles in the main room of the Community Center, repainting of interior walls of the main room of the Community Center, installation of new gutters and downspout on the exterior of the Community Center, and new front façade installation as shown on the site development plans and architectural plans. (Sheet A-1.2 of the Architectural Plans, Detail 1 and Sheet A-2.0 of the Architectural Plans, as well as Sec 01 22 00.01 - Exterior Façade Exhibit). Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

35. PLAYGROUND INSTALLATION

A. Measurement

Measurement for this item shall be lump sum as based on the Playground Installation Details and as referenced on the Site Plan.

B. Payment

Payment for the Playground Installation shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation

for furnishing all labor, and equipment necessary for installation of the proposed playground at the Community Center as referenced on the Site Plan as well as shown in the Playground Installation Details. Playground equipment to be provided by the Owner. Installation to be provided by the Site Contractor. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

36. ALTERNATE #1 – EXISTING EXTERIOR BUILDING SIDE WALLS REPAINTING

A. Measurement

Measurement for repainting of the existing side walls will be Lump Sum per the Contract Documents and Drawings.

B. Payment

Payment for repainting of the existing side walls shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to repaint the side walls as shown on the Drawings (Sheet A-2.0 of the Architectural Plans, as well as Sec 01 22 00.01 - Exterior Façade Exhibit).

37. ALTERNATE #1 – EXTERIOR METAL TRIM INSTALLATION

A. Measurement

Measurement for exterior metal trim installation will be Lump Sum per the Contract Documents and Drawings.

B. Payment

Payment for exterior metal trim installation shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install the exterior metal trim on all four corners as shown on the Drawings (Sheet A-2.0 of the Architectural Plans, Details B and C as well as Sec 01 22 00.01 - Exterior Façade Exhibit).

38. ALTERNATE #2 GRASS SOD – ADDITIONAL COST (ADD COST = TOTAL COST – ITEM 3.01.24)

A. Measurement

Measurement for Grass Sod will be determined in the field per square foot, including placement and installed once topsoil is installed at final grade per the Contract Documents and Drawings.

B. Payment

Payment for the installation of Grass Sod shall be made at the contract unit price for the Additional Cost to Install Sod in Place of Final Seeding, Line Item 3.24. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the Grass Sod as shown on the Drawings, this includes but is not limited to temporary placement. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no

additional cost to the Owner, including Contractor's maintenance of the Grass Sod to the satisfaction of the Bucks County Conservation District throughout the project duration.

3.02 CONTRACT #21-07025-02: ELECTRICAL CONTRACT

1. MOBILIZATION

A. Measurement

Measurement for this work is lump sum and constitutes furnishing all materials and equipment necessary to complete the work associated with this contract. This item also includes providing a Work in accordance with:

Section 01 29 00 – Contract Considerations
Section 01 31 00 – Coordination and Meetings
Section 01 33 00 – Submittals
Section 01 40 00 – Quality Control
Section 01 50 00 – Temporary Facilities and Controls
Section 01 56 39 – Landscape Protection
Section 01 60 00 – Material and Equipment
Section 01 70 00 – Contract Closeout

B. Payment

Payment for this item shall be made at the contract unit price as determined in the Bid Schedule. One half (50%) of the contract lump sum amount for this item will be paid with the first payment application. The remaining 50% will be paid upon satisfactorily completing 50% of the total original contract amount. This is a lump sum item for the entire contract. No additional payments for Mobilization will be paid as part of the Contract Work. Mobilization shall be performed and payment will be made in accordance to Section 01 71 13 "Mobilization" of the contract.

2. INSTALLATION OF UTILITY POLE

A. Measurement

Measurement for Installation of Utility Pole will be lump sum per the Contract Documents and Site Plan.

B. Payment

Payment for the installation of the new utility shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install the new utility pole utility pole, underground wiring, and conduit as shown on the Site Plan.

3. SITE ELECTRICAL WIRING AND CONDUIT

A. Measurement

Measurement for Site Electrical Wiring and Conduit will be lump sum per the Contract Documents and Site Plan.

B. Payment

Payment for the installation of the Site Electrical Wiring and Conduit shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install the underground wiring and conduit to the existing meter of the Community Center as shown on the Site Plan.

4. INSTALLATION OF INTERIOR ELECTRICAL EQUIPMENT

A. Measurement

Measurement for Installation of Interior Electrical Equipment will be lump sum per the Contract Documents and Electrical Drawings.

B. Payment

Payment for the installation of the interior electrical equipment shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install interior wiring and lighting, and all other electrical equipment as shown on the Electrical Drawings. Electrical Contractor is responsible for providing any wiring, boxes, etc. required to connect power to plumbing and electrical equipment, as necessary. Electrical Contractor to coordinate work with Plumbing Contractor as needed.

3.03 CONTRACT #21-07025-03: PLUMBING CONTRACT

1. MOBILIZATION

A. Measurement

Measurement for this work is lump sum and constitutes furnishing all materials and equipment necessary to complete the work associated with this contract. This item also includes providing a Work in accordance with:

Section 01 29 00 – Contract Considerations
Section 01 31 00 – Coordination and Meetings
Section 01 33 00 – Submittals
Section 01 40 00 – Quality Control
Section 01 50 00 – Temporary Facilities and Controls
Section 01 56 39 – Landscape Protection
Section 01 60 00 – Material and Equipment
Section 01 70 00 – Contract Closeout

B. Payment

Payment for this item shall be made at the contract unit price as determined in the Bid Schedule. One half (50%) of the contract lump sum amount for this item will be paid with the first payment application. The remaining 50% will be paid upon satisfactorily completing 50% of the total original contract amount. This is a lump sum item for the entire contract. No additional payments for Mobilization will be paid as part of the Contract Work. Mobilization shall be performed and payment will be made in accordance to Section 01 71 13 "Mobilization" of the contract.

2. INSTALLATION OF INTERIOR PLUMBING FACILITIES

A. Measurement

Measurement for the Installation of Interior Plumbing Facilities will be Lump Sum for all equipment installed including, but not limited to piping, toilets, kitchen hood, exhaust fan, ductwork, sinks, floor drains, and pump outs as indicated on the drawings.

B. Payment

Payment for the Installation of Interior Plumbing Facilities shall be made at the applicable lump sum contract unit price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for the installation of piping, toilets, kitchen hood, exhaust fan, ductwork, sinks, floor drains, pump outs, grease interceptor, water heater, cleanouts, and all other work intended and incidental thereto to install the Interior Plumbing Facilities as shown on the Plumbing Plans and elsewhere in the Project Manual. Electrical Contractor is responsible for providing any wiring, boxes, etc. required to connect power to plumbing and electrical equipment, as necessary. Plumbing Contractor to coordinate work with Electrical Contractor as needed.

3.04 INCIDENTAL ITEMS

1. ALLOWANCES

The Owner is including a General Allowance for any work that may need to be completed beyond that defined in the contract. The allowance is defined for the Dollar amount for each item.

2. MAINTENANCE AND PROTECTION OF TRAFFIC

There will be no separate payment for Maintenance and Protection of Traffic as Maintenance and Protection of Traffic is incidental to all other Work. Maintenance and protection of traffic includes all labor, material, and equipment necessary for installation, maintenance, and relocation of traffic control devices and flagging to complete all work. This may include the flaggers, erection, placement, and maintenance in good condition of barricades, warning signs, lights, flares, approved yellow-flashing light units, rubber traffic cones, and other warning and danger signals and devices, appropriate and adequate for the specific needs at the project site. This applies to pedestrian and vehicular traffic. All work shall be completed in accordance with Section 01 55 26 and as directed.

3. BITUMINOUS TACK COAT

Separate payment for tack coat will not be made as its cost will be included in the applicable items associated with its use. This shall include all labor, materials, equipment, and traffic control necessary for the tack coat installation. Tack Coat shall be in accordance with the latest editions of PennDOT Publication 408, Section 460. Asphalt materials shall be based on PennDOT's **June 2023 Asphalt Cement Price Index**.

4. EROSION AND SEDIMENT CONTROL MAINTENANCE

There will be no separate payment for Erosion and Sediment Control Maintenance as Erosion and Sediment Control Maintenance is incidental to all Erosion & Sediment Control

devices. All Erosion & Sediment Control Devices should be routinely inspected and maintained in accordance with PADEP and the Bucks County Conservation District standards throughout the project duration. **Payment for Erosion and Sediment Control Maintenance will not be made as Erosion and Sediment Control Maintenance will be made incidental to all other Work as specified above.**

5. CONSTRUCTION SURVEYING

There will be no separate payment for Construction Surveying since all survey will be incidental to the rest of the work.

6. MATERIAL TESTING

There will be no separate payment for Materials Testing since all testing will be incidental to the rest of the work. The contractors are required to complete materials testing such as concrete testing, compaction testing, etc. as defined in the technical specifications and as directed by the Owner's Representative. Copies of material testing results should be provided to the Owner's Representative as soon as they are received.

END OF SECTION

HOOD INFORMATION																	
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM			
									WIDTH	LENGTH	DIA.	CFM			S.P.		
1	KH-1	XBEW-48-S	48	48	24	430 SS WHERE EXPOSED	HEAVY	900			10	900	0.454	720		136.569	SINGLE

HOOD INFORMATION														
HOOD NO.	MARK	LIGHTING DETAILS				GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO		QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
								L	H		TYPE	SIZE	MODEL	INTERFACE
1	KH-1	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	2	39.86	BAFFLE STAINLESS STEEL	3	16	20	RIGHT	ANSUL R102	3			
							0			20				

SUPPLY PLENUM INFORMATION																				
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	COLLARS								
				L	W	H			SUPPLIED	QTY		TYPE	MOUNTING	QTY	W	L	DIA.	CFM	S.P.	VEL.
1	KH-1	FRONT	ASP	60	14	4	NO	YES	NO		720	MUA	FACTORY	1	12	30		720	0.09	288

HOOD OPTIONS

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625

BACK INTEGRAL AIR SPACE - 3 IN WIDE

18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED

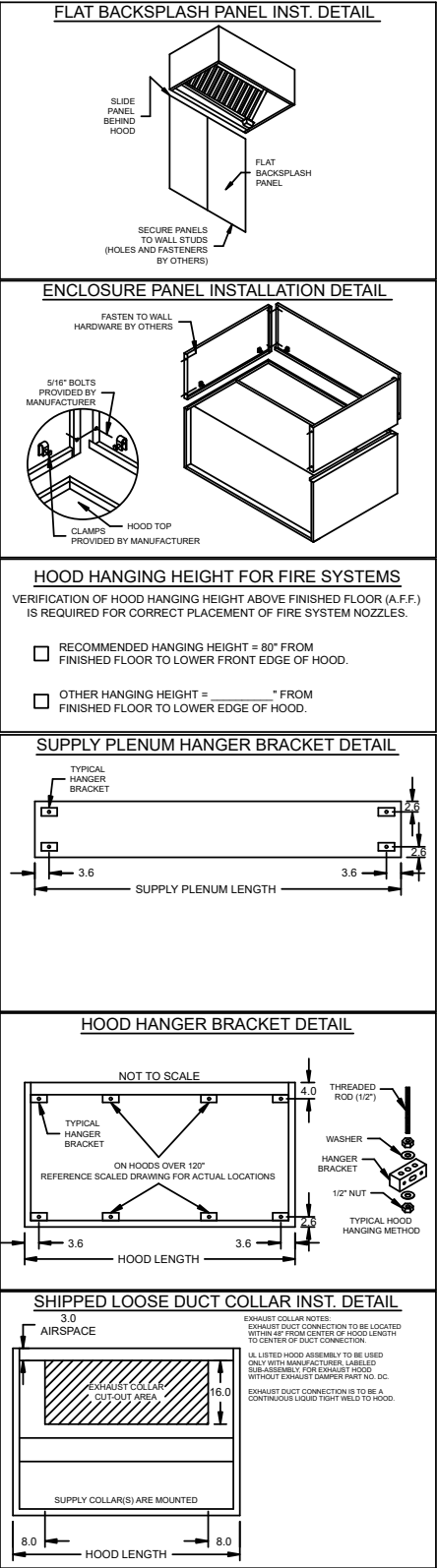
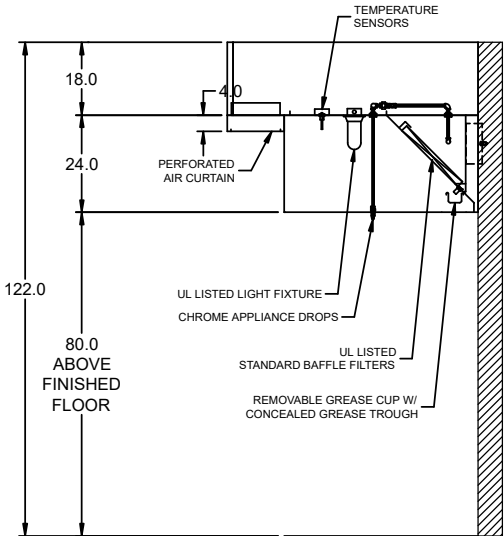
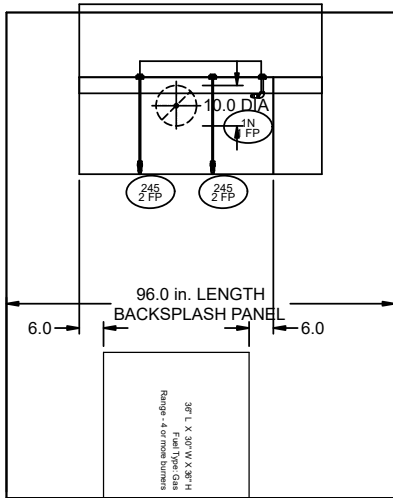
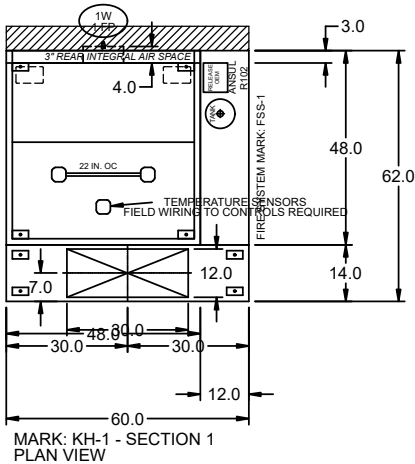
EXHAUST COLLARS MOUNTED ON HOOD BACK

SHIPPED LOOSE EXHAUST COLLAR(S)

BACKSPLASH 120.00 IN HIGH 96.00 IN LONG

PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY

STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



ACCUREX WESTERN PA WV
JONATHAN EVANS
JONATHAN.EVANS@ACCUREX.COM
(614)378-4350

ACCUREX

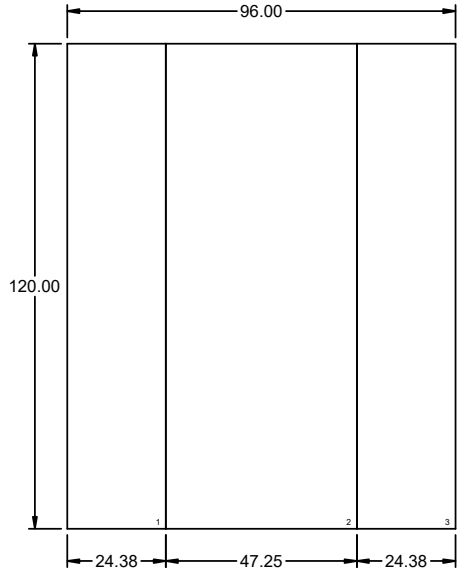
MARIE LOWE COMMUNITY CENTER

PROJECT 11/16/2022

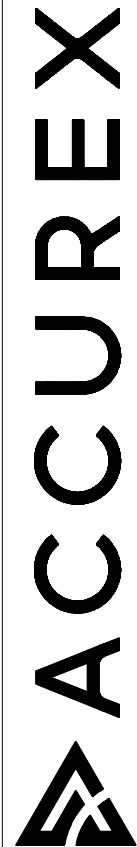
MARK

KH-1





BACK SPLASH



ACCUREX WESTERN PA WV
Jonathan Evans
jonathan.evans@accurex.com
(614)378-4350

PROJECT

11/16/2022

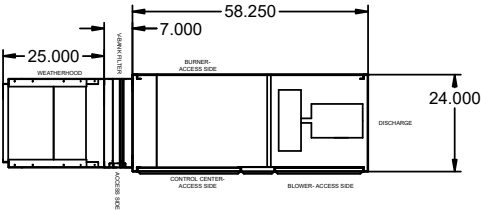
MARK

Marie Lowe Community Center

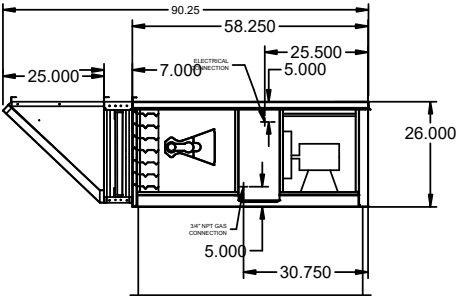
KH-1 - SPLASH PANEL LAYOUT



EQUIPMENT SCHEDULE								OPTIONS AND ACCESSORIES							
Tempered Make-Up Air Unit															
Mark: MUA-1								Air Flow Arrangement: Outdoor Air Only Weatherhood: Aluminum Mesh, 16x20x2 - (2) Filter Section: Aluminum, 20x20x2 - (1) Damper: Inlet Outdoor Air Intake Position: End Discharge Position: End Coating: Galvanized Insulation: Double Wall - Tempering On Supply Fan Control: Vari-Green ECM Vari-Green Control: Dial on Motor Access Side: Right-Hand Control Center Heat Inlet Air Sensor Unit Controls: Terminal Strip Temperature Control: Discharge Direct Gas Options/Accessories Approvals: ETL FM Compliant Flame Sensing: Flame Rod Ignition Control: Pilot Unit Rated Gas Pressure: 1/2 PSI							
Qty	Accurex Model	Volume	External SP	Total SP	FRPM	Operating Power	Weight								
1	XDGX-P115-H05-VG	800 CFM	0.5 in. wg	1.063 in. wg	1318	0.33 hp	448 lb								
Motor Information															
Size	VIC/P	Enclosure	Motor with Shall Grounded	Motor RPM	Windings	MCA	MOP								
1 hp	115/60/1	ODP	No	1725	1	21.3	35								
Heating															
Type	Gas Type	Temperature		Energy		Connection	Building								
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency	Gas	Gas	Pressure					
Direct Gas	Natural	12.6 F	57.4 F	70.0 F	53.9 MBH	49.6 MBH	92%	3/4"	1/2 PSI	11a					



PLAN VIEW



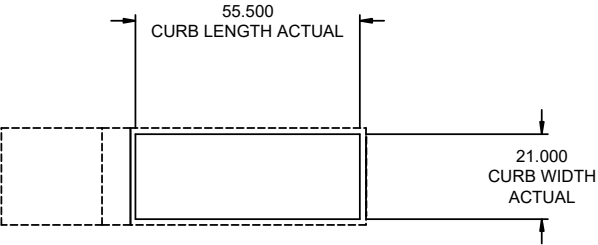
ELEVATION VIEW

NOTE: Roof Opening Requirements:

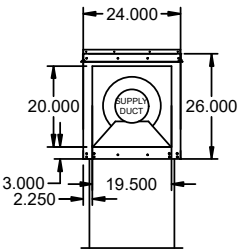
Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

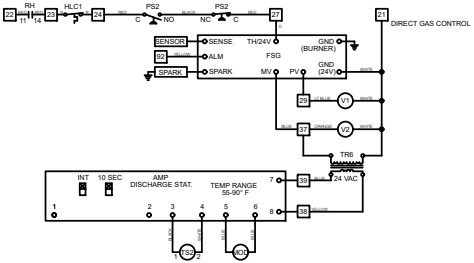
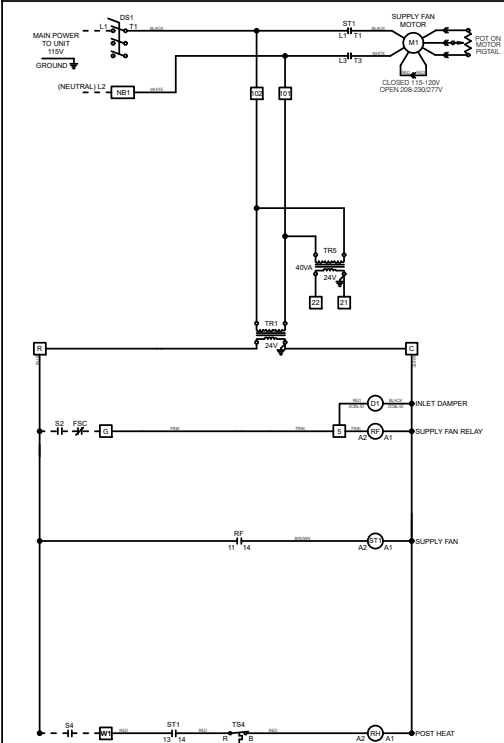
NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues. MUA Unit supports are shipped loose with unit.



FOOTPRINT



END VIEW



ACCUREX

Wiring Diagram Code:
AD61N102P010N10NM24

CAUTION
UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
POWER MUST BE OFF WHILE SERVICING.

NOTES
USE COPPER CONDUCTORS ONLY
80° C FOR TERMINALS RATED LESS THAN 100 AMPS.
75° C FOR TERMINALS RATED 100 AMPS OR MORE.
FIELD CONTROL WIRING RESISTANCE SHOULD
NOT EXCEED 0.75 OHM.
FIELD WIRE: - - - - -
FACTORY SUPPLIED AND WIRED: _____

WIRE COLOR CODE
BK BLACK BK BROWN
GY GRAY LT BL LIGHT BLUE O ORANGE
PK PINK PR PURPLE R RED
W WHITE Y YELLOW

LEGEND
AMP AMPLIFIER
D1 INLET DAMPER
DS1 MAIN DISCONNECT SWITCH
FSG FIRE SYSTEM CONTACT
FSG FLAME SAFE GUARD
FUSE FUSE
ALC HIGH LIMIT CONTROL
AM MOTOR
MCM MODULATING VALVE
NB1 NEUTRAL BLOCK
OVR MOTOR OVERLOAD
PSD AIR PROVING SWITCH
RF FAN RELAY
RF1 FAN ENABLE RELAY
RH HEAT RELAY
S2 FAN SWITCH
SH HEAT AND COOL SWITCH
SG SPARK GENERATOR
SFR MOTOR STARTER
TFR TRANSFORMER
TSD DISCHARGE AIR SENSOR
TSA INLET AIR SENSOR - HEAT
V1 PILOT VALVE
V2 MAIN VALVE

Wiring Template: M24 DOC NUMBER: REV:

ACCUREX WESTERN PA WV
JONATHAN EVANS
JONATHAN.EVANS@ACCUREX.COM
(614)378-4350



MARIE LOWE COMMUNITY
CENTER

PROJECT
11/16/2022

MARK

MUA-1

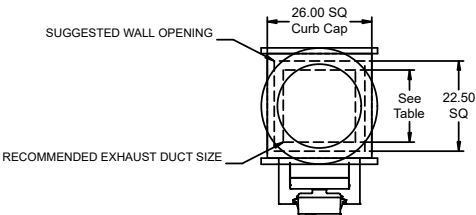
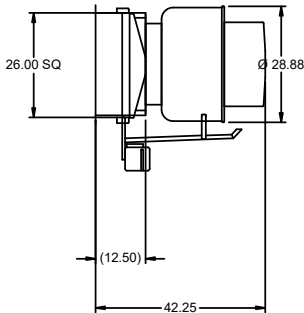


Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF-1	XRUD-140HP-A	900	1.24	1,725	0.43	112	0.5	115/60/1	OP	1725	1	9.8

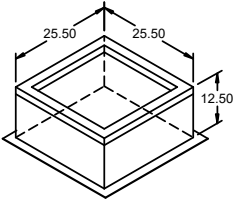
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

EF-1 : SELECTED OPTIONS AND ACCESSORIES
Sidewall Mounting - Fan Configured for Wall-Mounted Applications UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances" Switch, NEMA-3R, Toggle, Shipped with Unit Hinge, (PN 918398), (Shipped Loose) High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached) Grease Pan Kit - Containment Configured for Wall-Mounted Applications (PN:879137) Grease Trap (PN:475538)

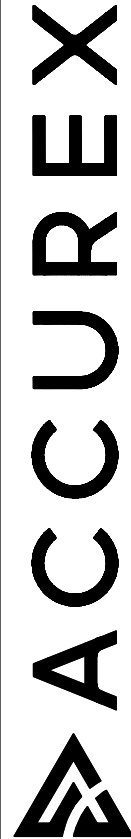


DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ

NOTE: SUGGESTED WALL OPENING WITH ROOF CURB - 26
DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.
OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.



ACCUREX WESTERN PA WV
JONATHAN EVANS
JONATHAN.EVANS@ACCUREX.COM
(614)378-4350



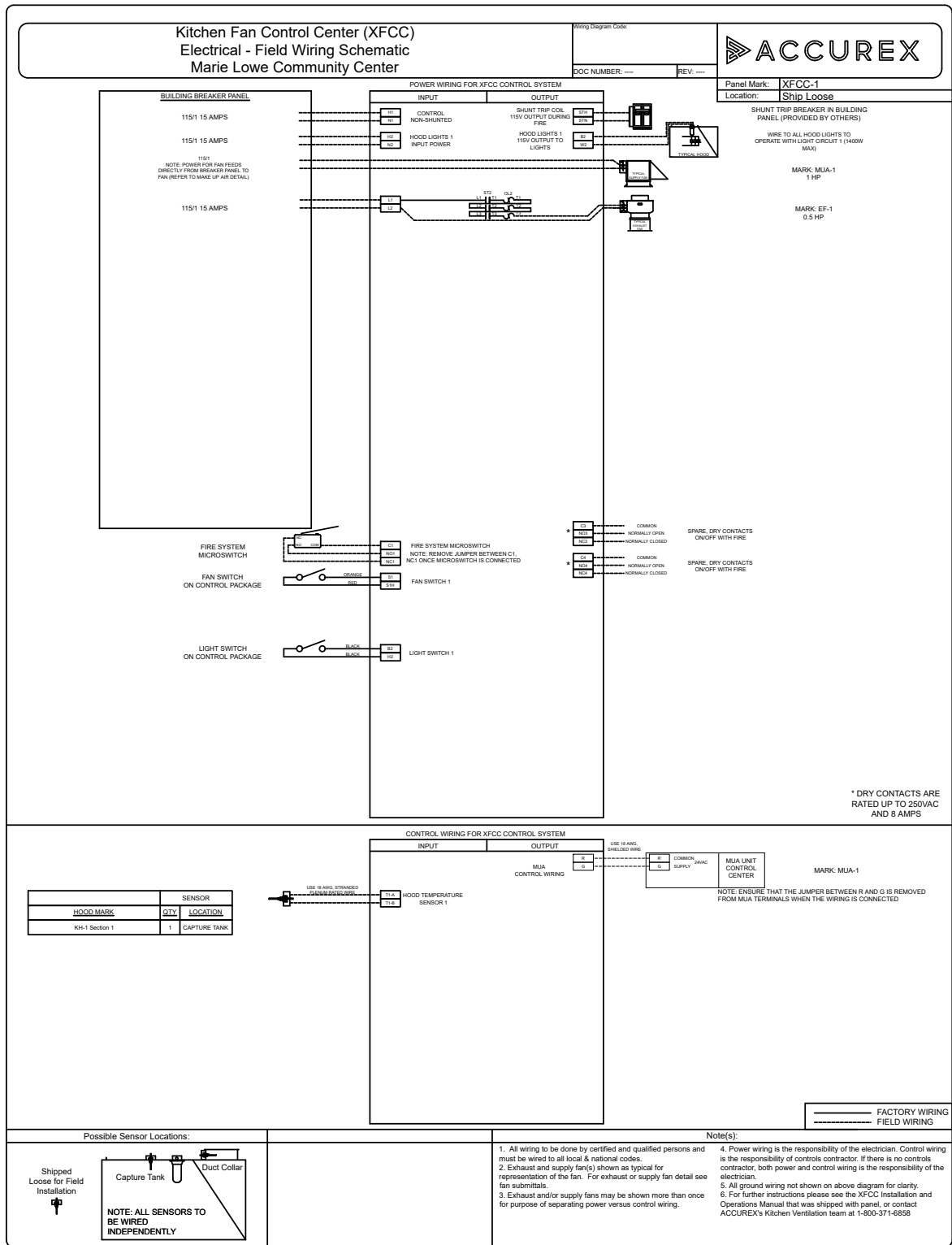
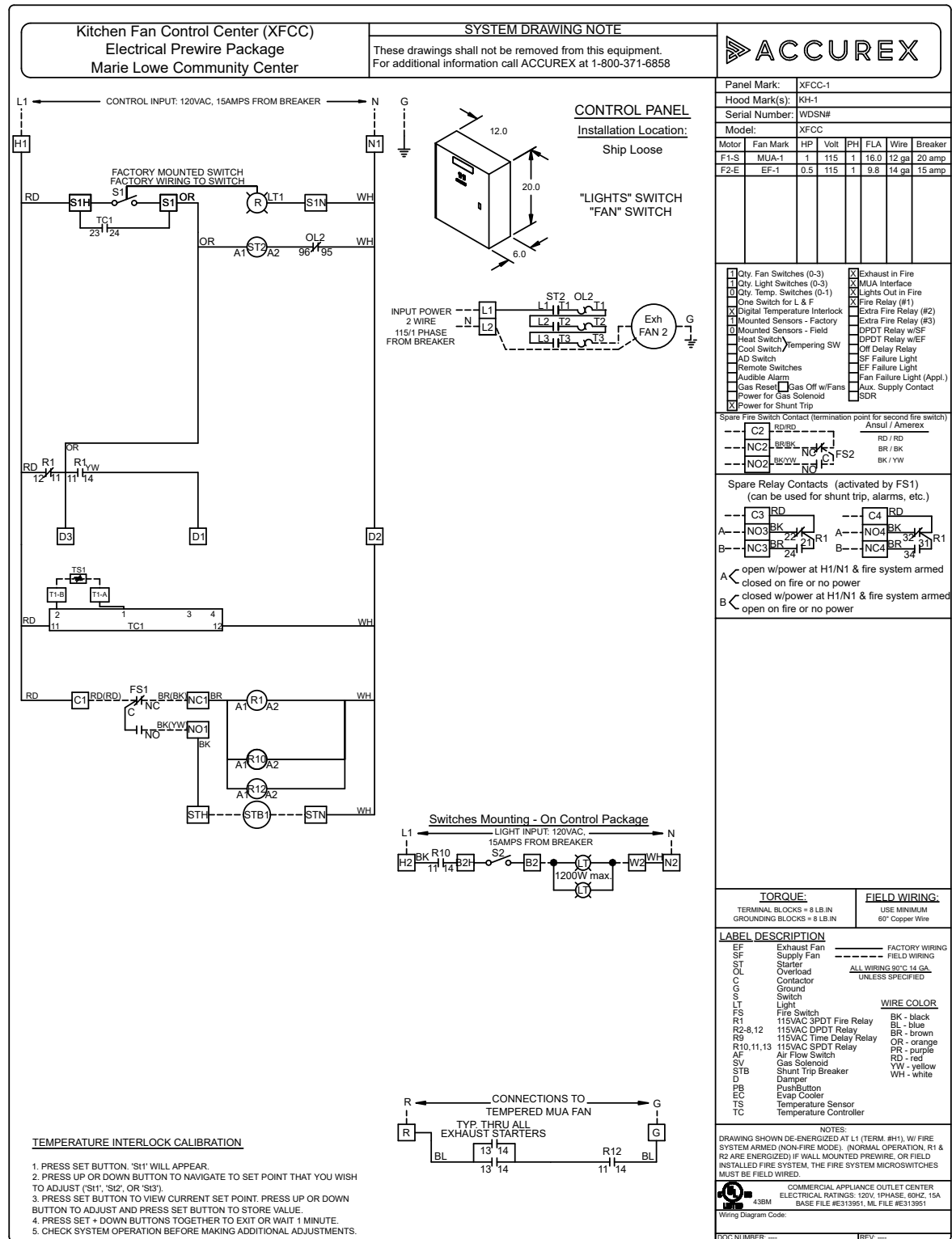
PROJECT] 11/16/2022
MARK]
MARIE LOWE COMMUNITY CENTER

EF-1



MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED				
	MODEL	LOCATION	TYPE	LOCATION	MARK	TYPE	VOLT	PHASE	HP
XFCC	XFCC	Ship Loose	SWITCHES	On Control Package	MUA-1	supply	115	1	1
					EF-1	exhaust	115	1	1/2

Control Panel Enclosure - 16 Ga 300 Series Stainless Steel Enclosure (NEMA-1) - Dimensions 12 x 20 x 6
Starters Provided in Control Panel - Qty 1
2 Position Light Switch - Qty 1
2 Position Fan Switch - Qty 1
-Factory Mounted Exhaust Temperature Sensors - Qty 1
Turn On Exhaust In Fire
Lights Out In Fire
MUA Interface
Power For Shunt Trip
Thermal Overloads In Cabinet



FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
FSS-1	ANSUL R-102 WET CHEMICAL	CABINET – RIGHT END OF KH-1	6 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK	KH-1 SECTION 1

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 1", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE100
HOOD SUPPRESSION TANK - INCLUDED - 3 GAL. - [(1) 3.0 TANK(S)]
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE

2. AGENT STORAGE TANK

3. EXPELLENT GAS CARTRIDGE

4. ANSUL AUTOMAN RELEASE

5. REGULATOR

6. KNOCKOUT FOR WIRING MICROSWITCH

NOT TO SCALE

NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.

- VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
- ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.
- ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:

- GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
- MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:

- FULL DUMP TEST OTHER THAN WH1 IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
- MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.
- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
- INSTALLATION OF GAS SHUT-OFF VALVE.
- SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR PS APPROVAL STAMP.
- UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.
- ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
- ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
- ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
- INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M).
- PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS, OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

WIRING DIAGRAMS
W/DPDT MICRO SWITCH

DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

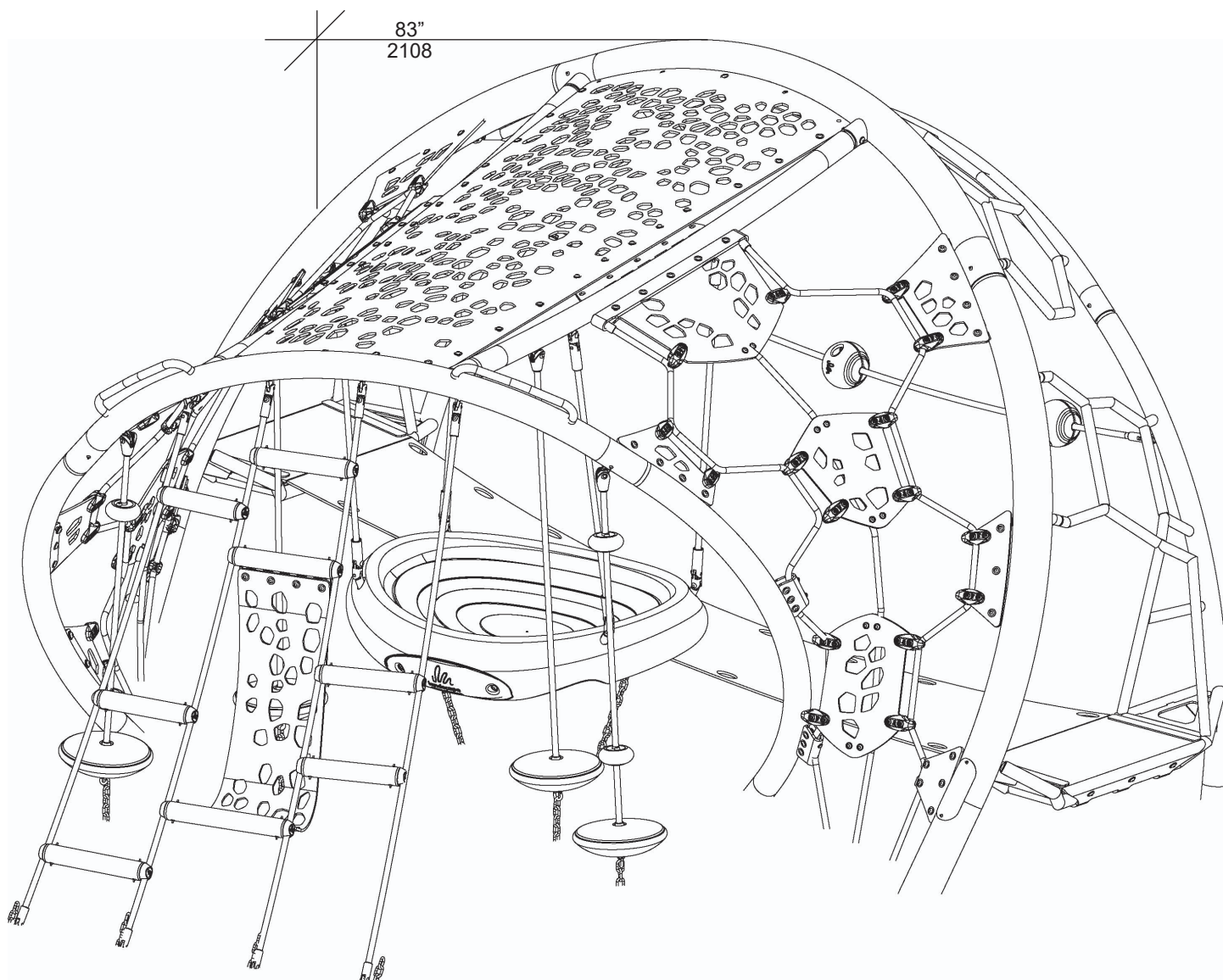
CONNECTION TO BUILDINGS ALARM

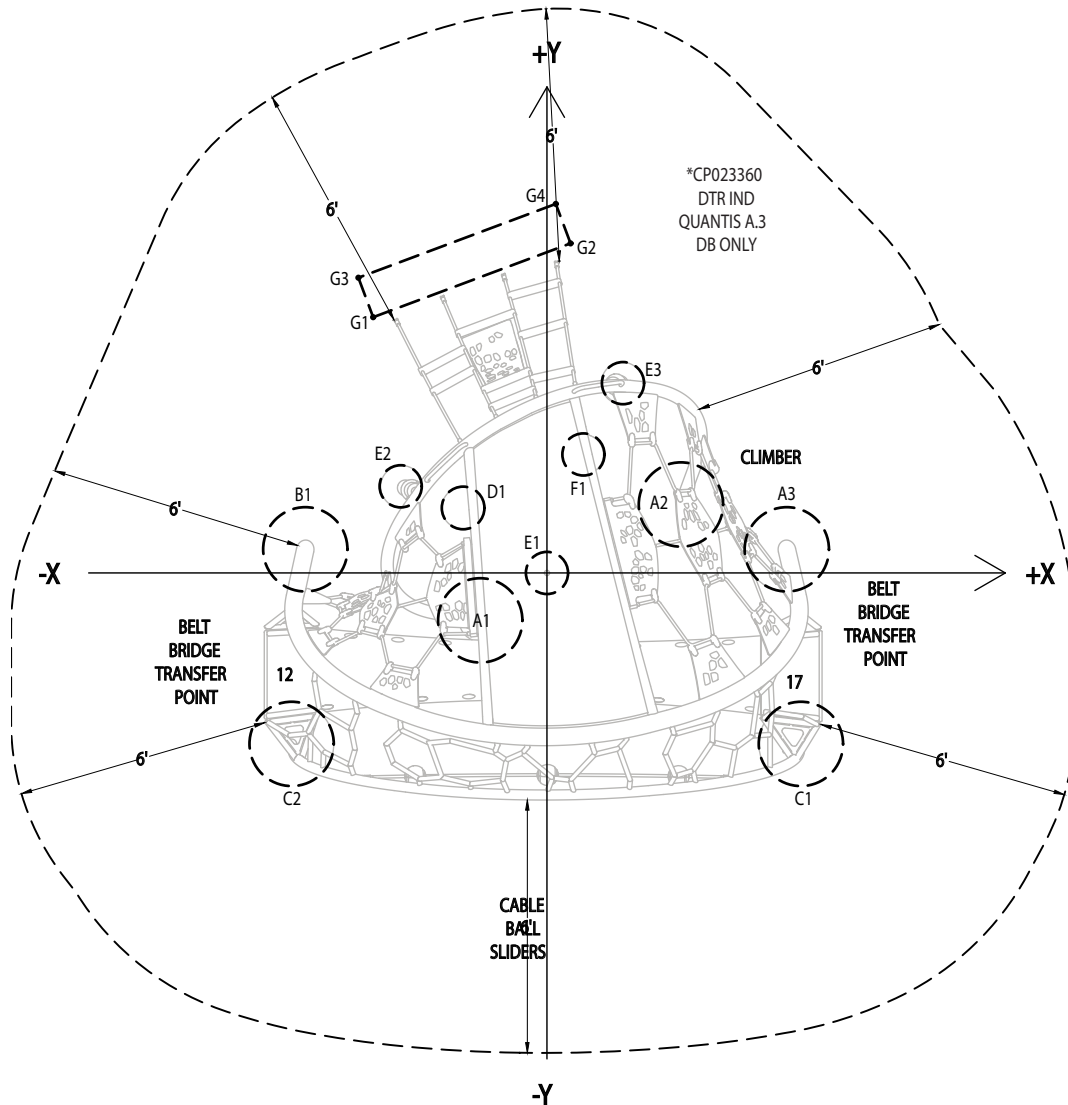
CONNECTION TO COOKING EQUIPMENT SHUT DOWN

CONNECTION TO FAN SHUT DOWN

NOTES:

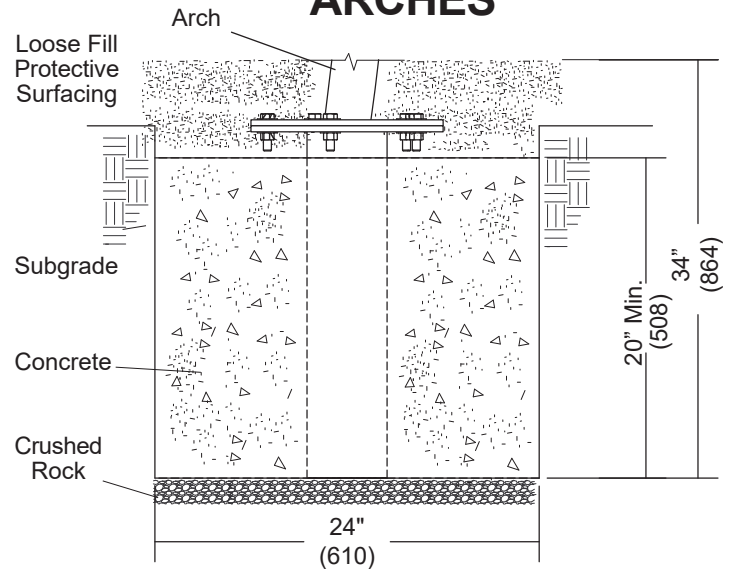
- 1. _____ DENOTES FIELD INSTALLATION.
- 2. _____ DENOTES FACTORY INSTALLATION.
- 3. DO NOT USE BLACK WIRE OR SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEIOUS ALARM, LIGHT CIRCUITS, ETC.



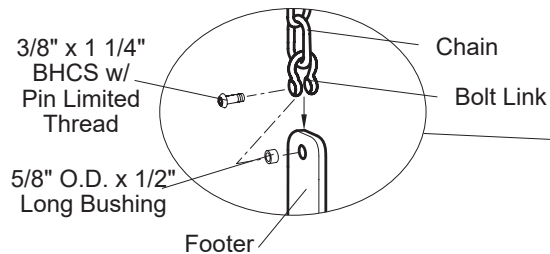


N.	I.D.	X (ft-in)	Y (ft-in)	Dist. to O	DIA (in)
1	A1	-1'-7"	-1'-1 1/2"	1'-11 1/2"	24
2	A2	3'-2"	1'-7 1/2"	3'-7"	24
3	A3	5'-8 1/2"	6 1/2"	5'-8 1/2"	24
4	B1	-5'-9"	6 1/2"	5'-9"	24
5	C1	6'-0 1/2"	-4'-0 1/2"	7'-3"	24
6	C2	-6'-0 1/2"	-4'-0 1/2"	7'-3 1/2"	24
7	D1	-2'	1'-6 1/2"	2'-6"	12
8	E1	0"	0"	0"	12
9	E2	-3'-5 1/2"	2'-0 1/2"	4'-0 1/2"	12
10	E3	1'-9 1/2"	4'-6"	4'-10"	12
11	F1	10 1/2"	2'-9 1/2"	2'-11 1/2"	12
12	G1	-4'-1 1/2"	6'-1"	7'-4"	TRENCH
13	G2	6 1/2"	7'-10"	7'-10"	TRENCH
14	G3	-4'-5 1/2"	7'	8'-3 1/2"	TRENCH
15	G4	2 1/2"	8'-9"	8'-9"	TRENCH

DETAIL ARCHES



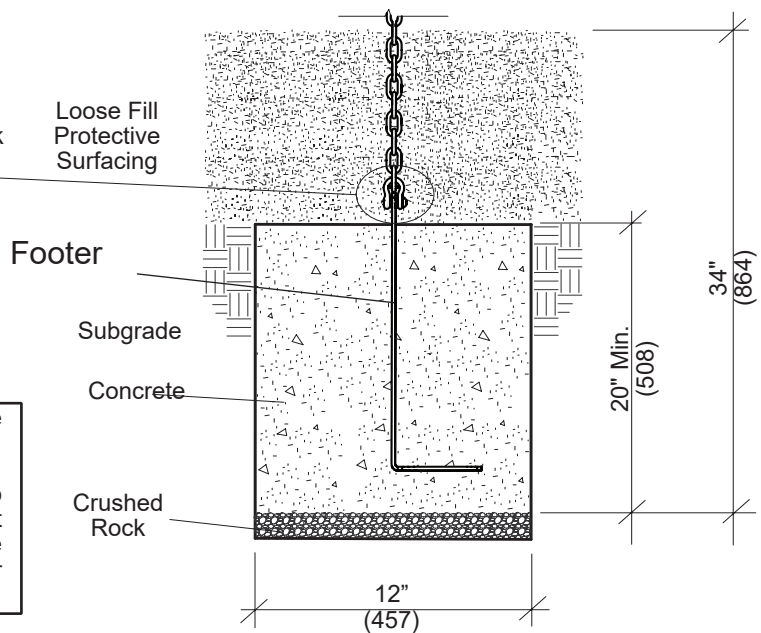
DETAIL ROPE PLATE FOOTER ATTACHMENT

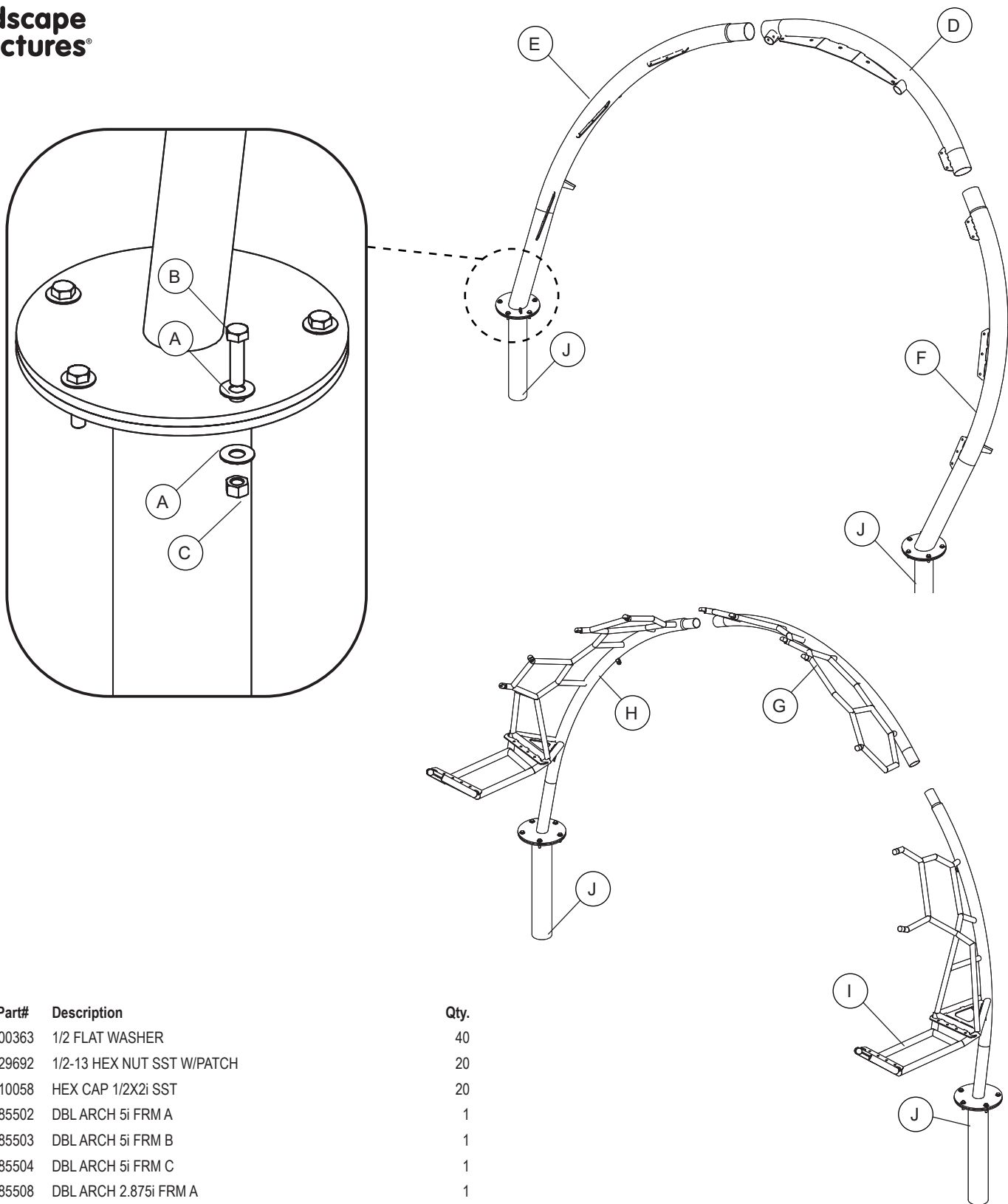


IMPORTANT! Tension ropes/nets before pouring concrete footings.

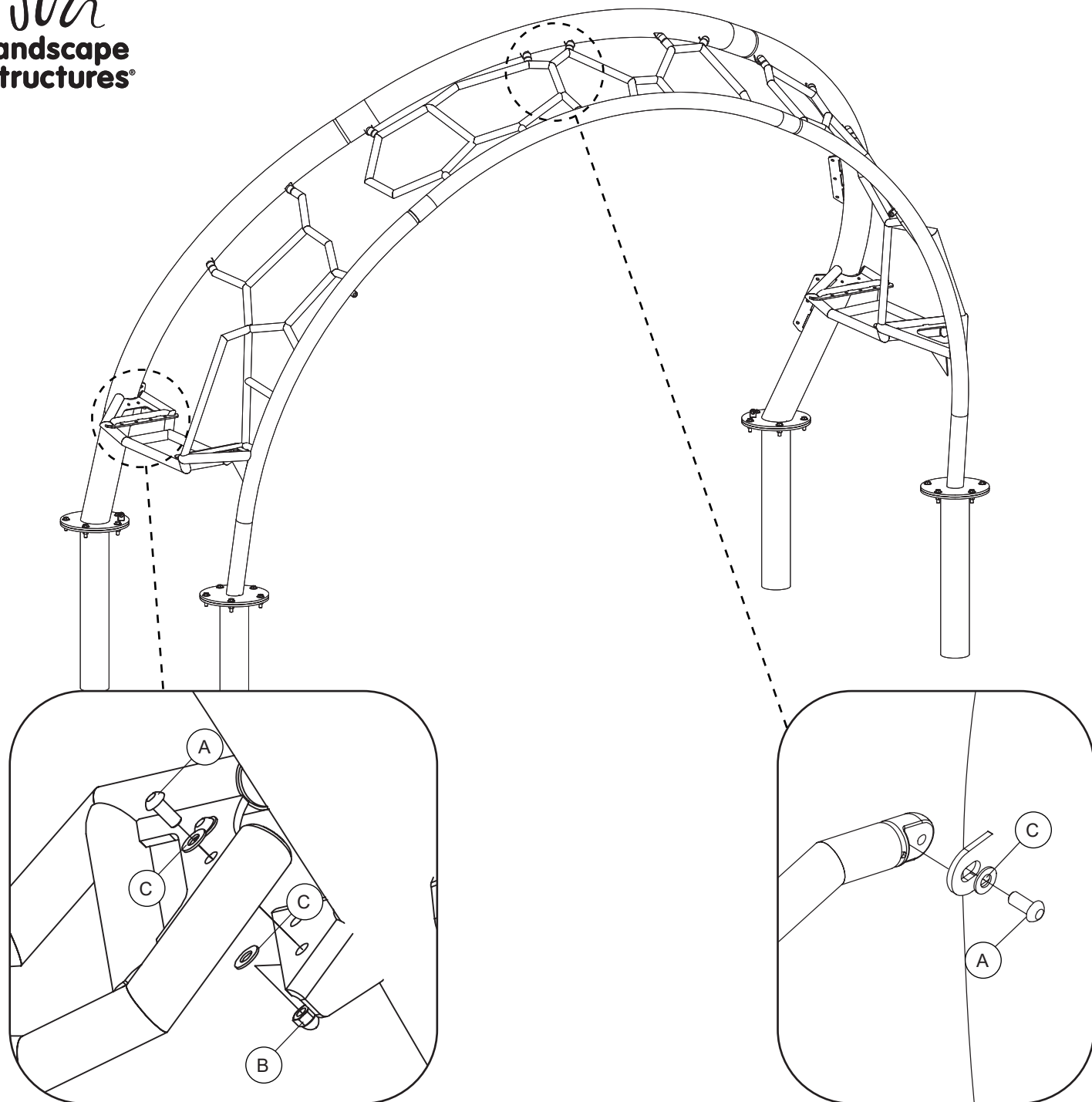
NOTE: The hole depth for the footer needs to be deep enough, so the footer plate does not contact the bottom of the hole. The weight of the concrete will force the footer plate down, further tightening the cable.

DETAIL ROPES

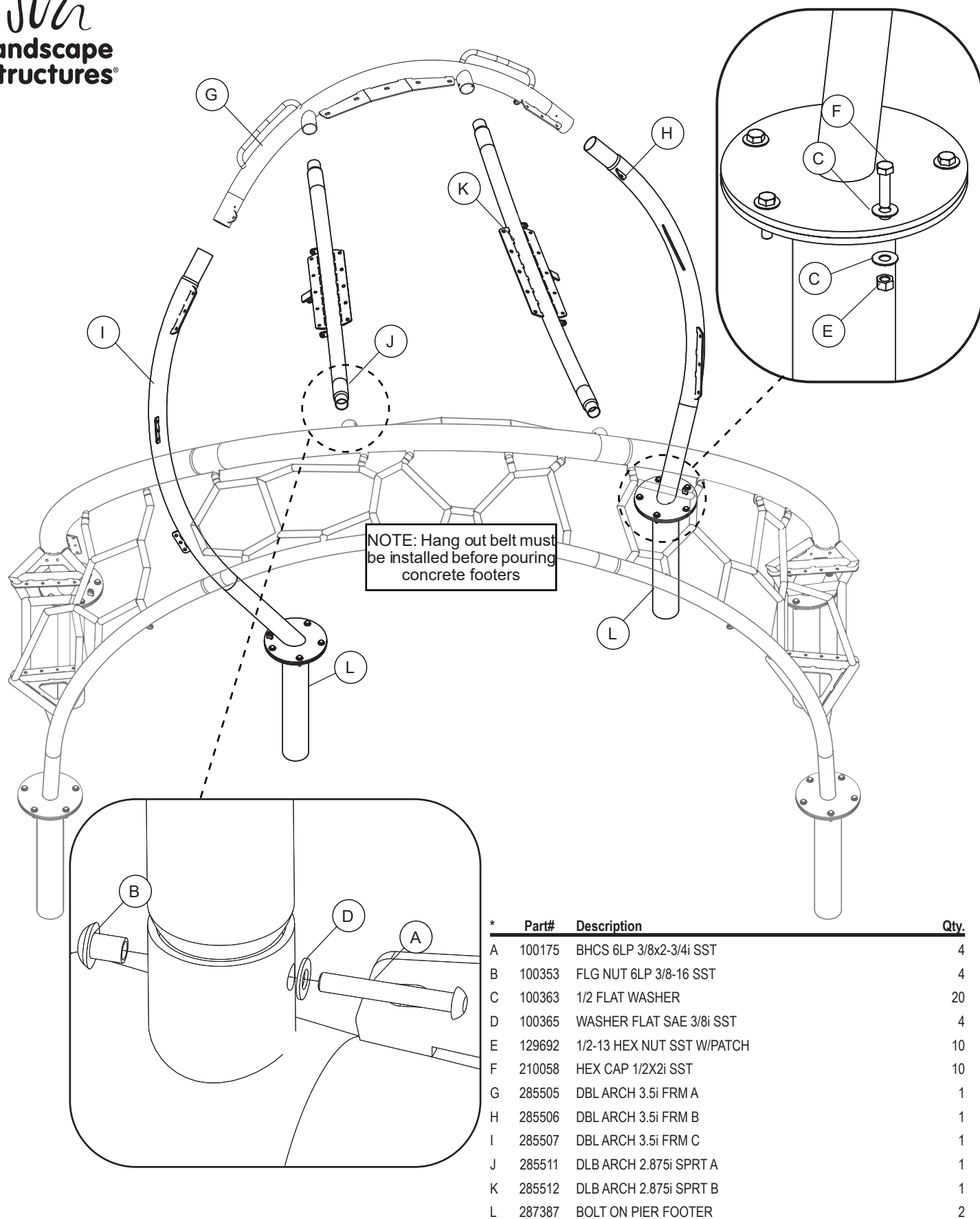


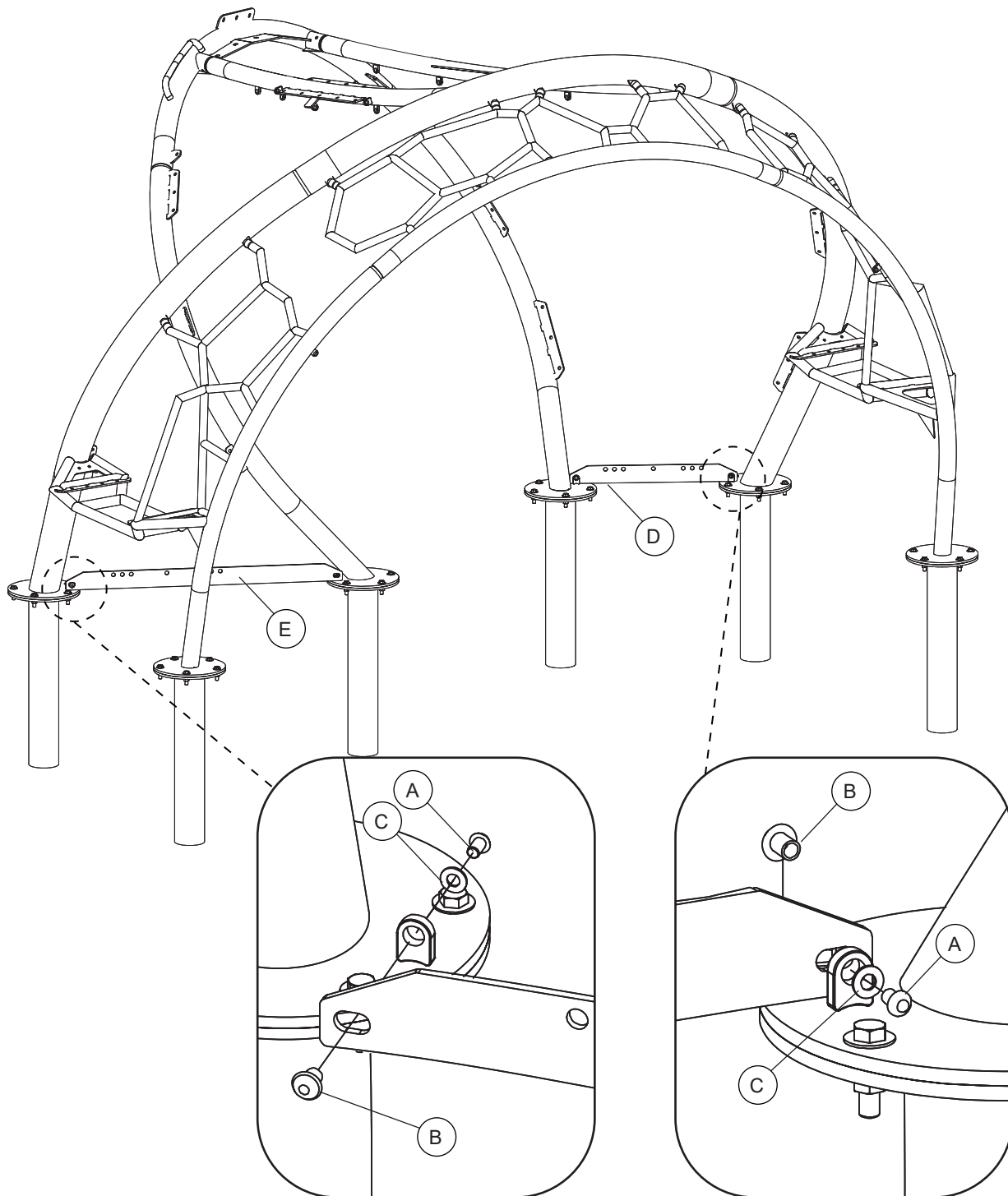


*	Part#	Description	Qty.
A	100363	1/2 FLAT WASHER	40
B	129692	1/2-13 HEX NUT SST W/PATCH	20
C	210058	HEX CAP 1/2X2i SST	20
D	285502	DBL ARCH 5i FRM A	1
E	285503	DBL ARCH 5i FRM B	1
F	285504	DBL ARCH 5i FRM C	1
G	285508	DBL ARCH 2.875i FRM A	1
H	285509	DBL ARCH 2.875i FRM B	1
I	285510	DBL ARCH 2.875i FRM C	1
J	287387	BOLT ON PIER FOOTER	4

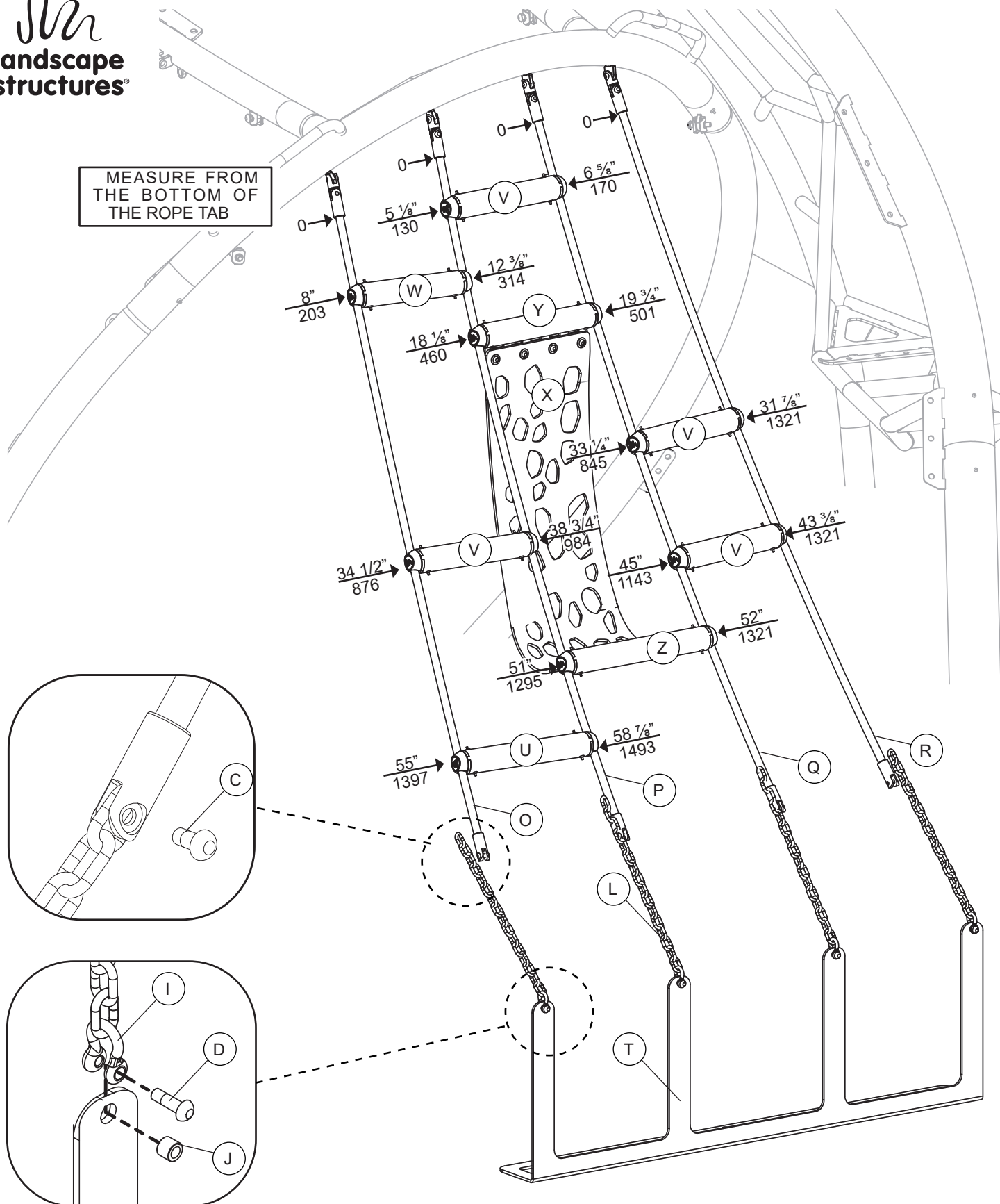


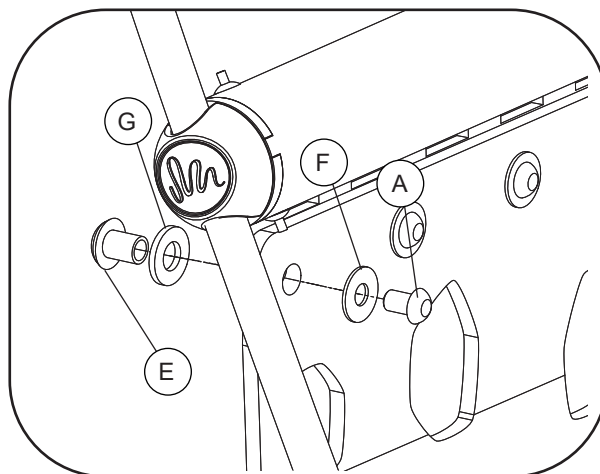
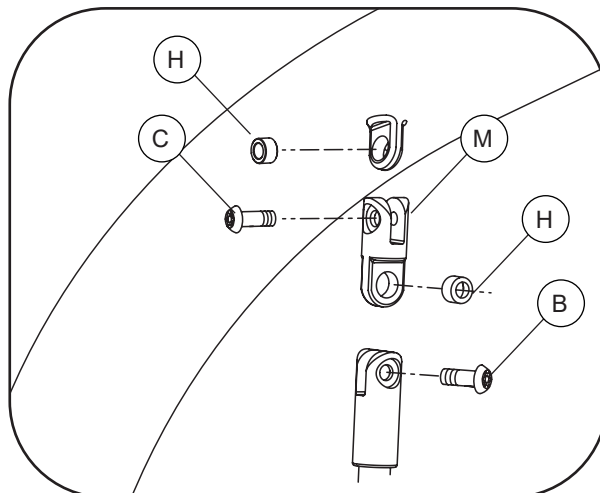
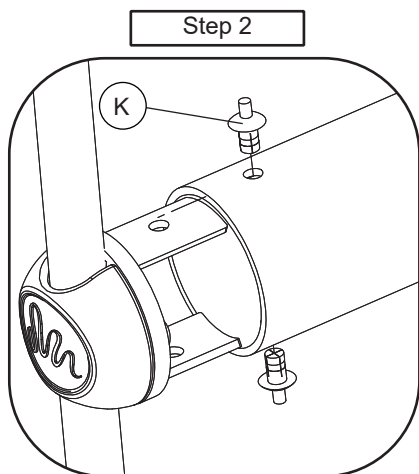
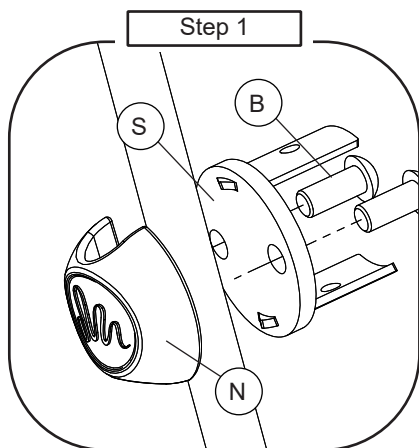
*	Part#	Description	Qty.
A	100196	BHCS 6LP 3/8x7/8i SST	15
B	100349	3/8 HEX NUT L/C CAP	4
C	100365	WASHER FLAT SAE 3/8i SST	19





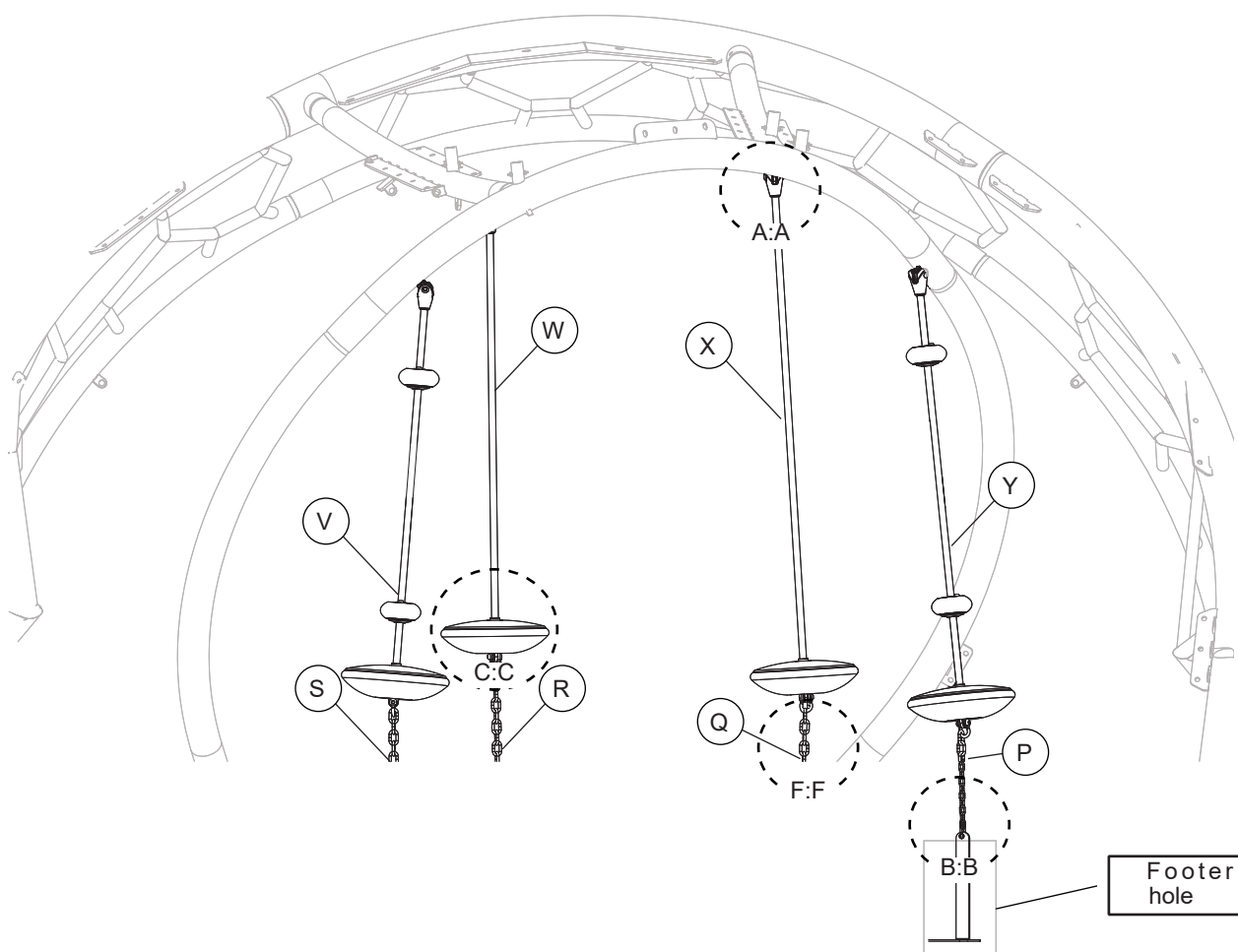
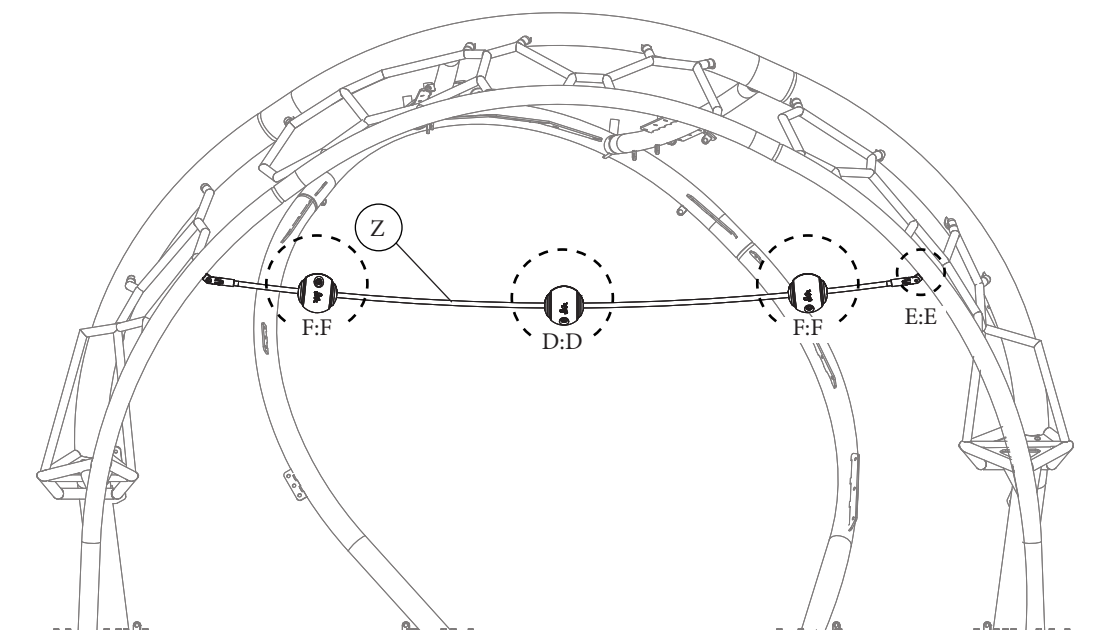
*	Part#	Description	Qty.
A	100195	BHCS 6LP 3/8x5/8i SST	4
B	100353	FLG NUT 6LP 3/8-16 SST	4
C	100365	WASHER FLAT SAE 3/8i SST	4
D	289663	FRAME SPACER PLT SHORT	1
E	289664	FRAME SPACER PLT LONG	1

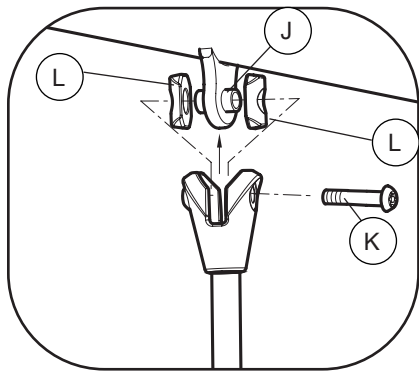




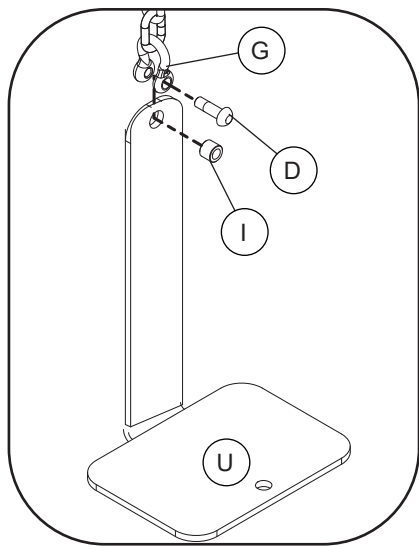
*	Part#	Description
A	100195	BHCS 6LP 3/8x5/8i SST
B	100196	BHCS 6LP 3/8x7/8i SST
C	100290	BHCS 6LP LTHD 3/8X7/8iSST
D	100292	BHCS 6LP LTHD 3/8X1-1/4i SST
E	100353	FLG NUT 6LP 3/8-16 SST
F	100362	WASHER FLAT 3/8i SST
G	113550	1/2i WASHER
H	127179	BUSH 5/8OD X 3/8 LG SST
I	138915	BOLT LINK SST
J	156962	BUSH 5/8 OD X 1/2 LG SST
K	158959	RVT 1/4X1/4 AA (GRIP=.203/.297)
L	196887	CHN 1/4i P70 PGD, 19-3/4" 16 LINK
M	218781	ROPE SWIVEL TAB

Qty.	*	Part#	Description	Qty.
8	N	290512	QUANTIS ROPE CASTING	16
32	O	292015	DBL ARCH CLIMBER ROPE C1	1
12	P	292016	DBL ARCH CLIMBER ROPE C2	1
4	Q	292017	DBL ARCH CLIMBER ROPE C3	1
8	R	292018	DBL ARCH CLIMBER ROPE C4	1
8	S	292110	"DBL ARCH RUNG CLIMBER CAP WLDMT"	16
8	T	292111	RUNG CLIMBER FOOTER HDG	1
8	U	292112	DBL ARCH RUNG CLIMBER 1	1
4	V	292113	DBL ARCH RUNG CLIMBER 2	4
4	W	292114	DBL ARCH RUNG CLIMBER 3	1
32	X	292119	DBL ARCH RUNG CLIMBER BELT	1
4	Y	292136	DBL ARCH BELT RUNG WLDMT TOP	1
4	Z	292137	"DBL ARCH BELT RUNG WELDMT BOTTOM"	1

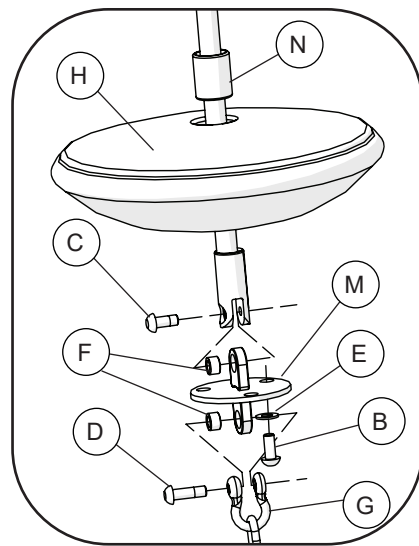




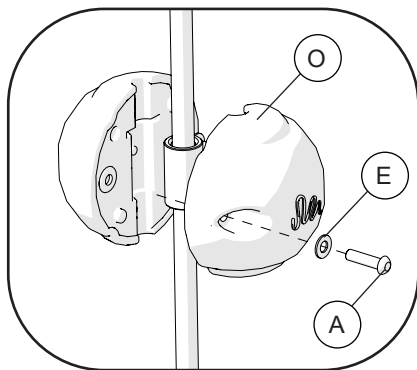
A:A



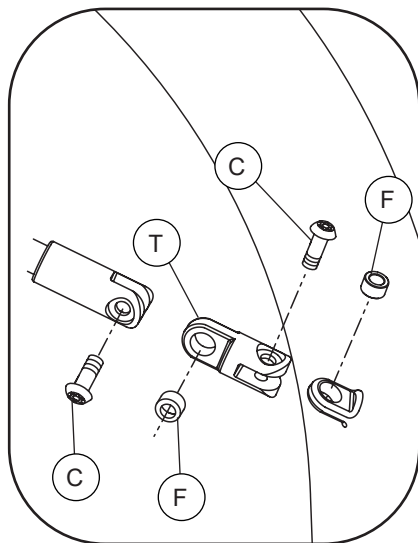
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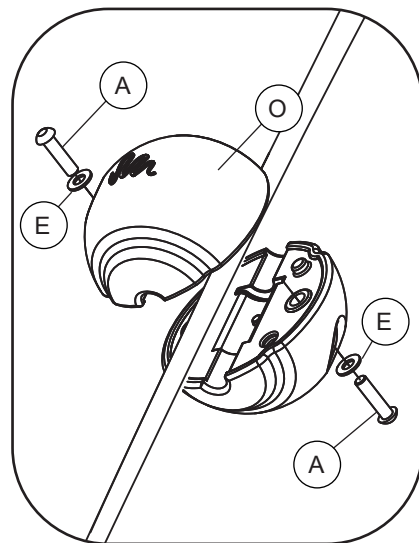
C:C



D:D



E:E

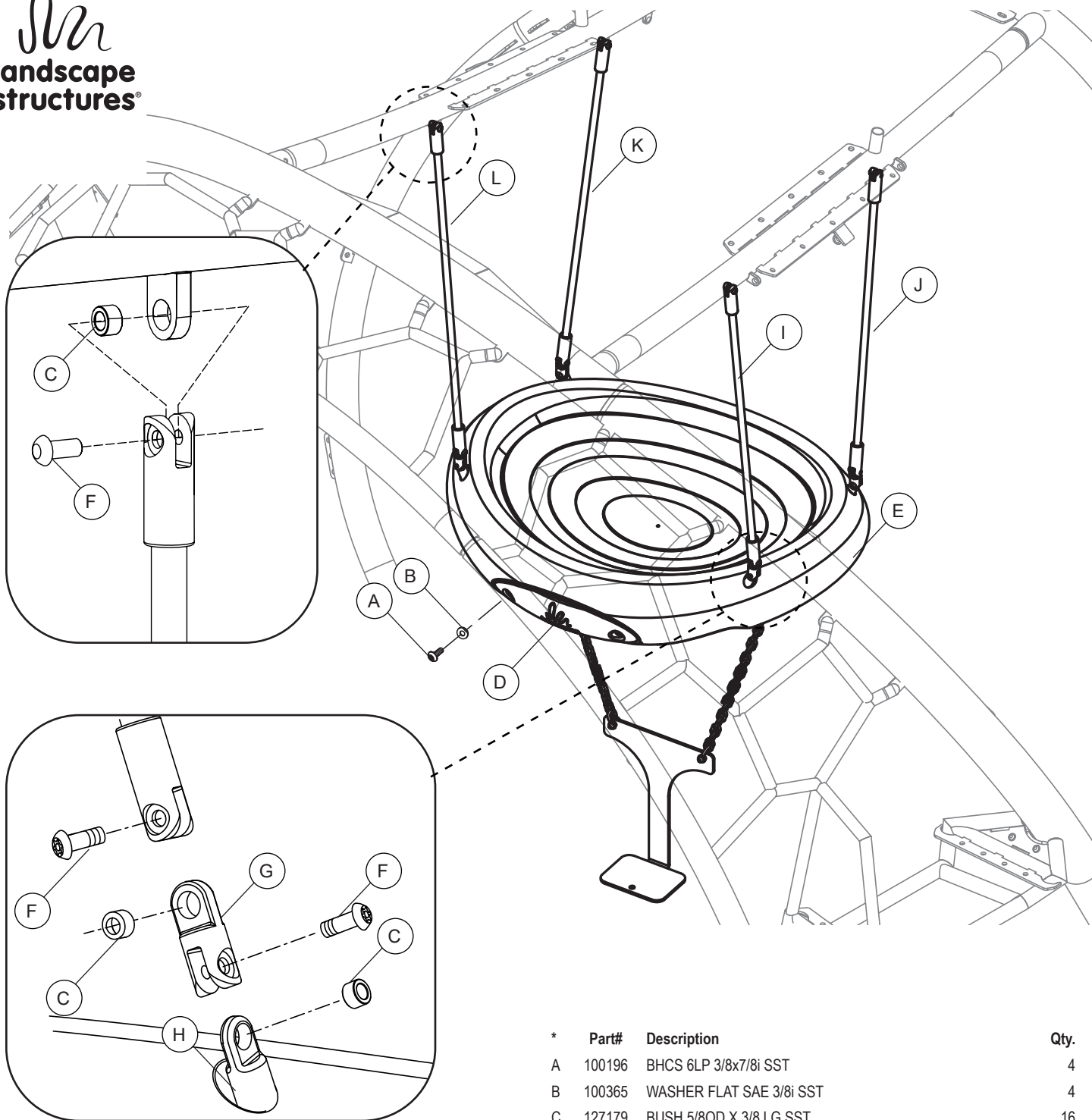


F:F

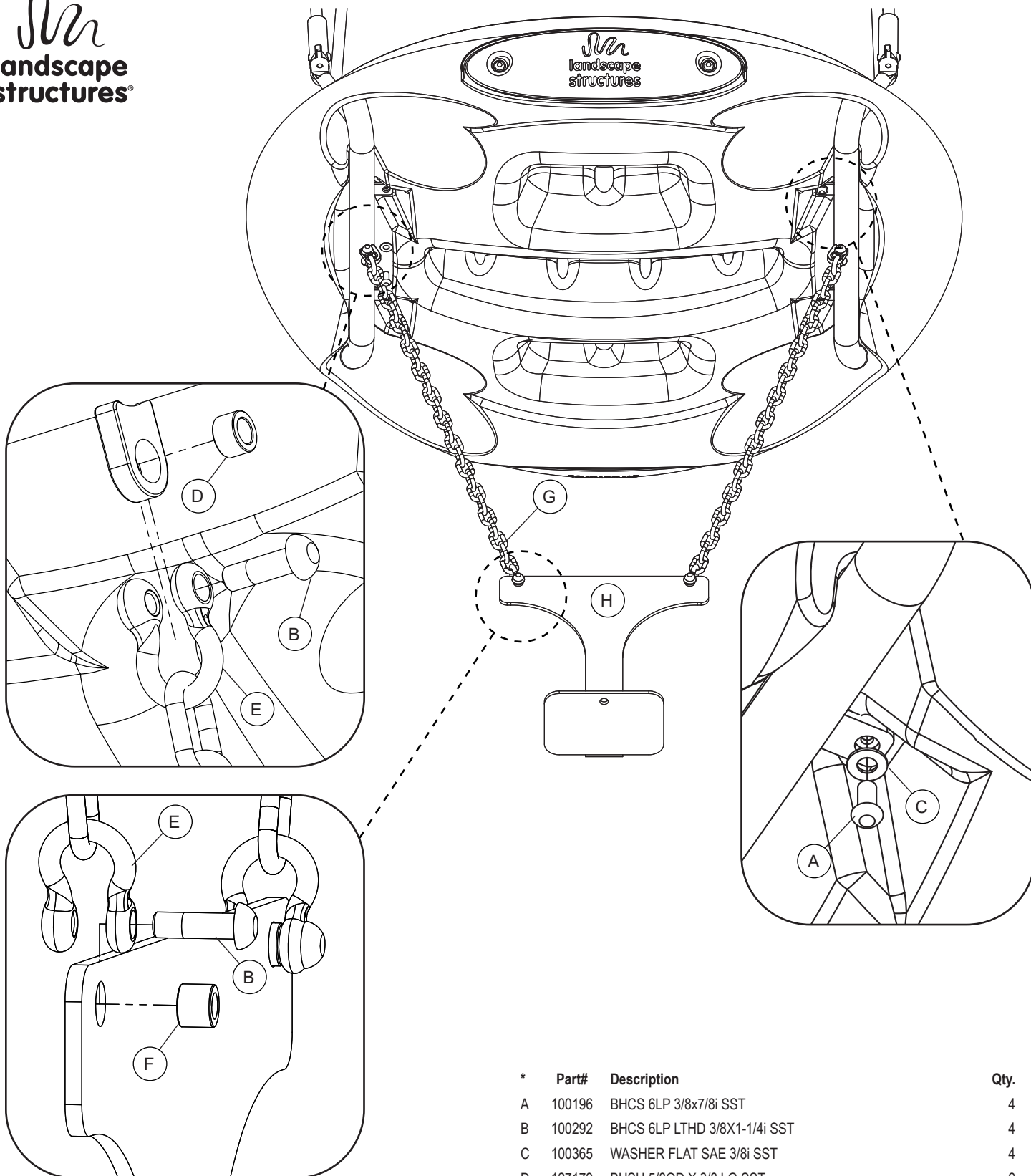
*	Part#	Description
A	100171	BHCS 6LP 3/8x1-1/2iSSTPAT
B	100196	BHCS 6LP 3/8x7/8i SST
C	100290	BHCS 6LP LTHD 3/8x7/8iSST
D	100292	BHCS 6LP LTHD 3/8X1-1/4i SST
E	100365	WASHER FLAT SAE 3/8i SST
F	127179	BUSH 5/8OD X 3/8 LG SST
G	138915	BOLT LINK SST
H	154460	EVOS CLIMB ACROSS POD
I	156962	BUSH 5/8 OD X 1/2 LG SST
J	157224	BSHG .439i ID X 1.156 SST
K	157704	7/16 X 2 6LP BHCS LTHD
L	162729	CONN PLUG HALF ABS
M	177932	POD BOLT PLATE

v

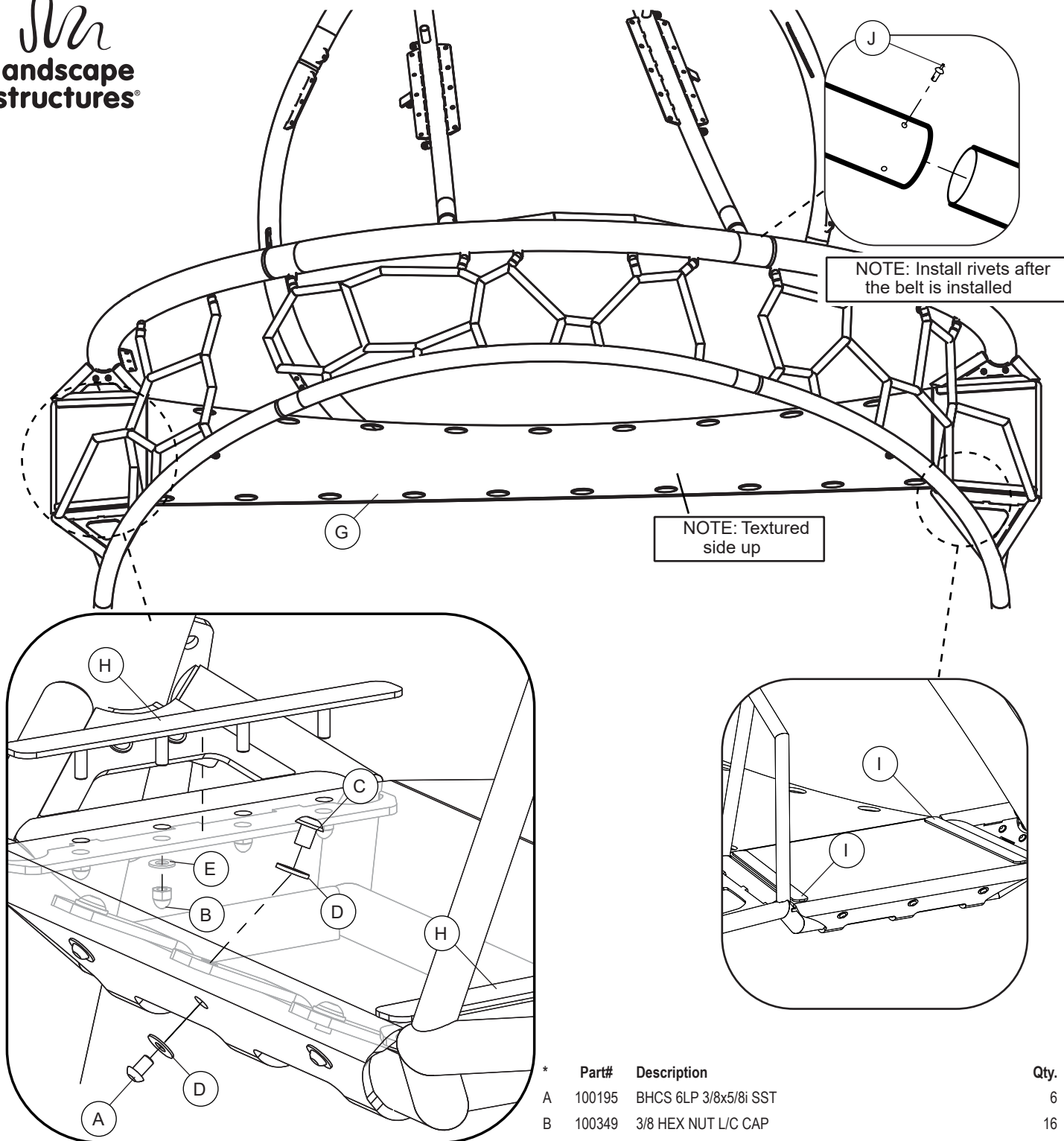
Qty.	*	Part#	Description	Qty.
6	N	178586	SWIGGLE STIX SPACER TB	4
12	O	192748	CABLE BALL KNOT HALF	6
8	P	194074	CHN 1/4i P70 PGD, 14-15/16" 12 LINK	1
8	Q	196887	CHN 1/4i P70 PGD, 19-3/4" 16 LINK	1
18	R	196890	CHN 1/4i P70 PGD, 24-9/16" 20 LINK	1
12	S	198497	CHN 1/4i P70 PGD, 17-5/16" 14 LINK	1
8	T	218781	ROPE SWIVEL TAB	2
4	U	247871	SINGLE ROPE FOOTER HDG	4
4	V	286304	DBL ARCH SWIGGLE KNOT ROPE A	1
4	W	286305	DBL ARCH SWIGGLE KNOT ROPE B	1
4	X	286306	DBL ARCH SWIGGLE KNOT ROPE C	1
8	Y	286307	DBL ARCH SWIGGLE KNOT ROPE D	1
4	Z	287111	DBL ARCH BALL KNOT ROPE	1



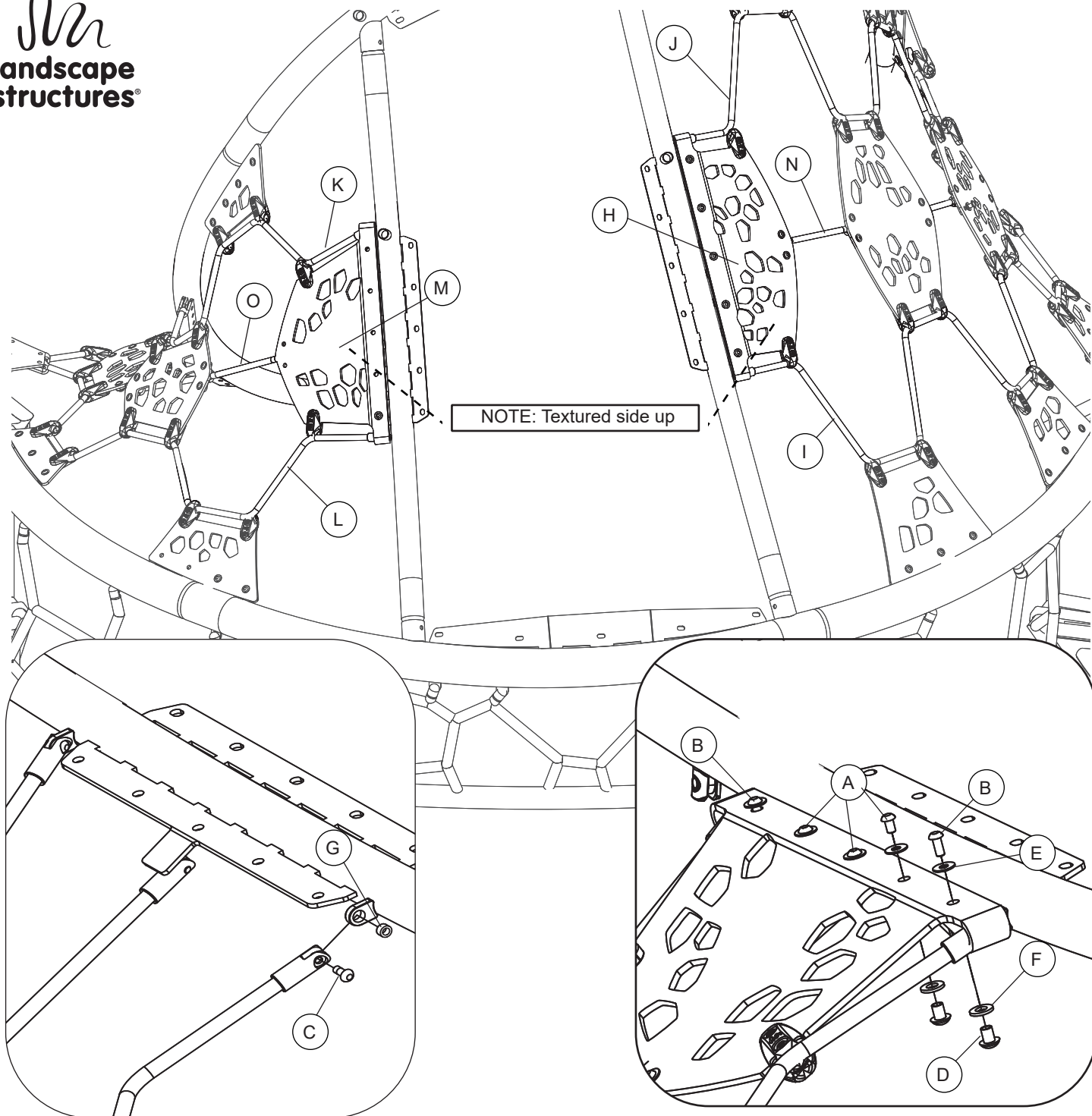
*	Part#	Description	Qty.
A	100196	BHCS 6LP 3/8x7/8i SST	4
B	100365	WASHER FLAT SAE 3/8i SST	4
C	127179	BUSH 5/8OD X 3/8 LG SST	16
D	172045	OODLE SWING BUMPER	2
E	193982	OODLE SWING SEAT	1
F	100292	"BHCS 6LP LTHD 3/8 X 1-1/4 SST	16
G	255160	Large Rope Swivel Tab	8
H	282320	SPRT CROSS ARM	2
I	286389	DBL ARCH OODLE SWING ROPE A	1
J	286391	DBL ARCH OODLE SWING ROPE B	1
K	286392	DBL ARCH OODLE SWING ROPE C	1
L	286393	DBL ARCH OODLE SWING ROPE D	1



*	Part#	Description	Qty.
A	100196	BHCS 6LP 3/8x7/8i SST	4
B	100292	BHCS 6LP LTHD 3/8X1-1/4i SST	4
C	100365	WASHER FLAT SAE 3/8i SST	4
D	127179	BUSH 5/8OD X 3/8 LG SST	2
E	138915	BOLT LINK SST	4
F	156962	BUSH 5/8 OD X 1/2 LG SST	2
G	200441	CHN 1/4I P70 PGD, 30-9/16" 25 LINK	2
H	282264	OODLE SWING FOOTER PLATE	1

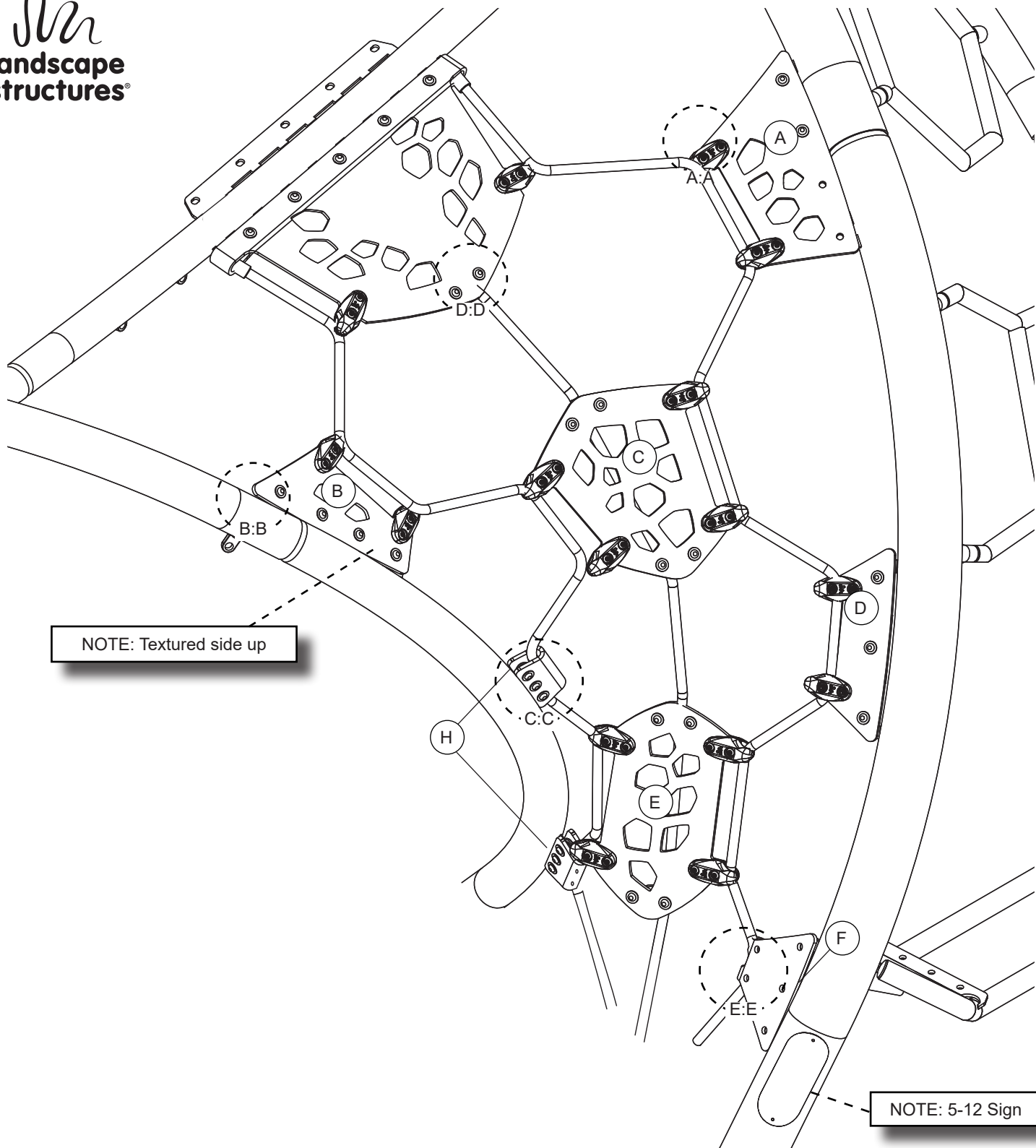


*	Part#	Description	Qty.
A	100195	BHCS 6LP 3/8x5/8i SST	6
B	100349	3/8 HEX NUT L/C CAP	16
C	100353	FLG NUT 6LP 3/8-16 SST	6
D	100362	WASHER FLAT 3/8i SST	6
E	100365	WASHER FLAT SAE 3/8i SST	16
F	113550	1/2i WASHER	6
G	287029	DBL ARCH TRANSFER BELT	1
H	287411	Q2A XFER BELT PLT A	2
I	287412	Q2A XFER BELT PLT B	2
J	100611	RIVET 1/4X3/8i DRV AS	12



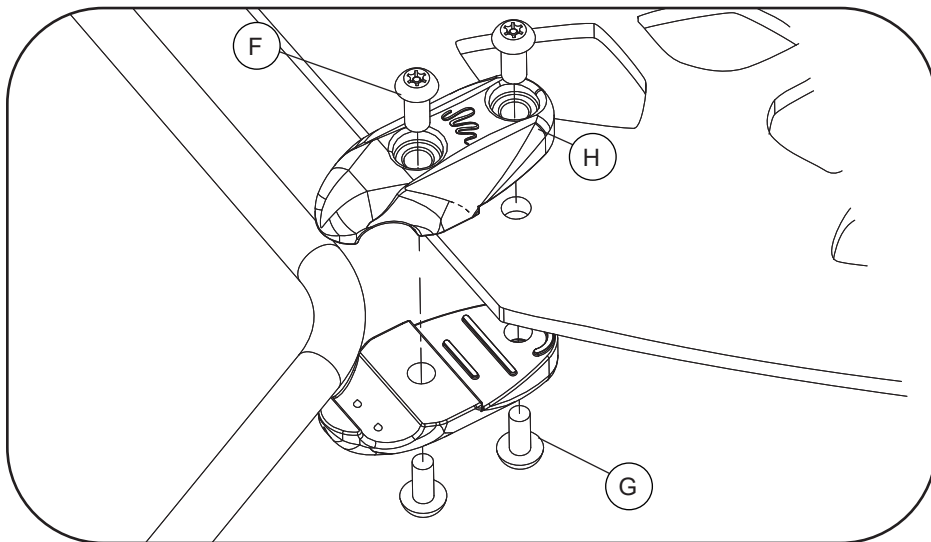
*	Part#	Description
A	100195	BHCS 6LP 3/8x5/8i SST
B	100196	BHCS 6LP 3/8x7/8i SST
C	100290	BHCS 6LP LTHD 3/8X7/8iSST
D	100353	FLG NUT 6LP 3/8-16 SST
E	100362	WASHER FLAT 3/8i SST
F	113550	1/2i WASHER
G	127179	BUSH 5/8OD X 3/8 LG SST
H	286195	DBL ARCH CLIMBER TOP BELT A

Qty.	*	Part#	Description	Qty.
6	I	286206	DBL ARCH CLIMBER ROPE A1	1
4	J	286207	DBL ARCH CLIMBER ROPE A2	1
4	K	286208	DBL ARCH CLIMBER ROPE B1	1
10	L	286209	DBL ARCH CLIMBER ROPE B2	1
10	M	286357	DBL ARCH CLIMBER TOP BELT B	1
10	N	289449	DBL ARCH CLIMBER ROPE A3	1
4	O	289450	DBL ARCH CLIMBER ROPE B3	1

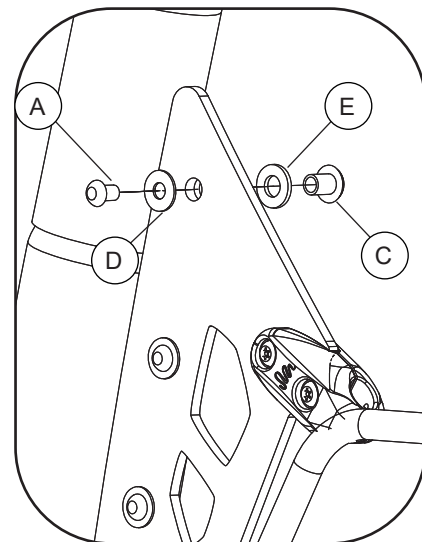


* Part#	Description
A 286199	DBL ARCH CLIMBER BELT B2
B 286200	DBL ARCH CLIMBER BELT B3
C 286218	DBL ARCH BELT CLIMBER B4
D 286198	DBL ARCH BELT CLIMBER B5

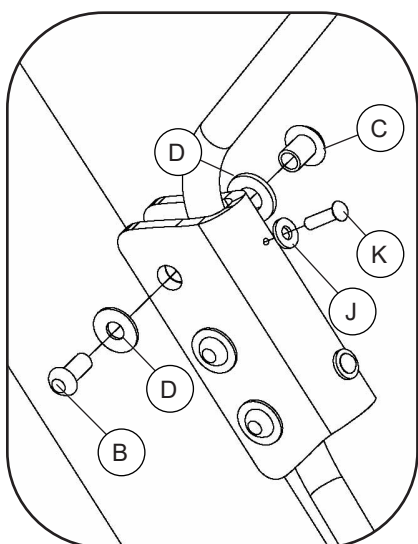
Qty.	* Part#	Description	Qty.
1	E 286219	DBL ARCH CLIMBER BELT B6	1
1	F 286201	DBL ARCH CLIMBER BELT B7	1
1	H 286202	DBL ARCH CLIMBER BELT B9	2



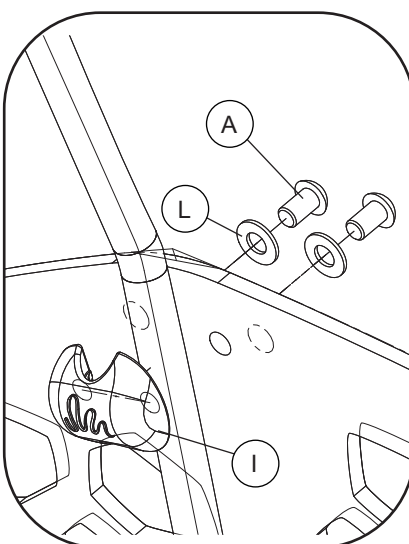
A:A



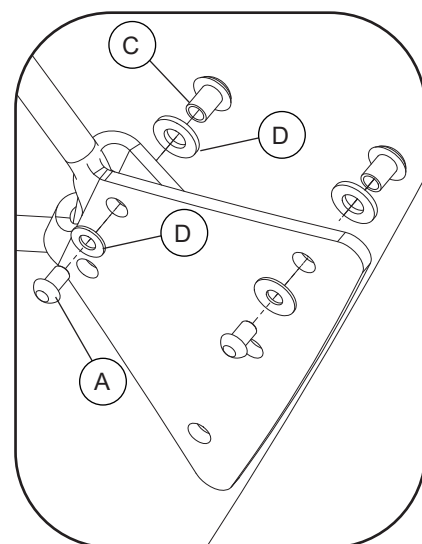
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C:C



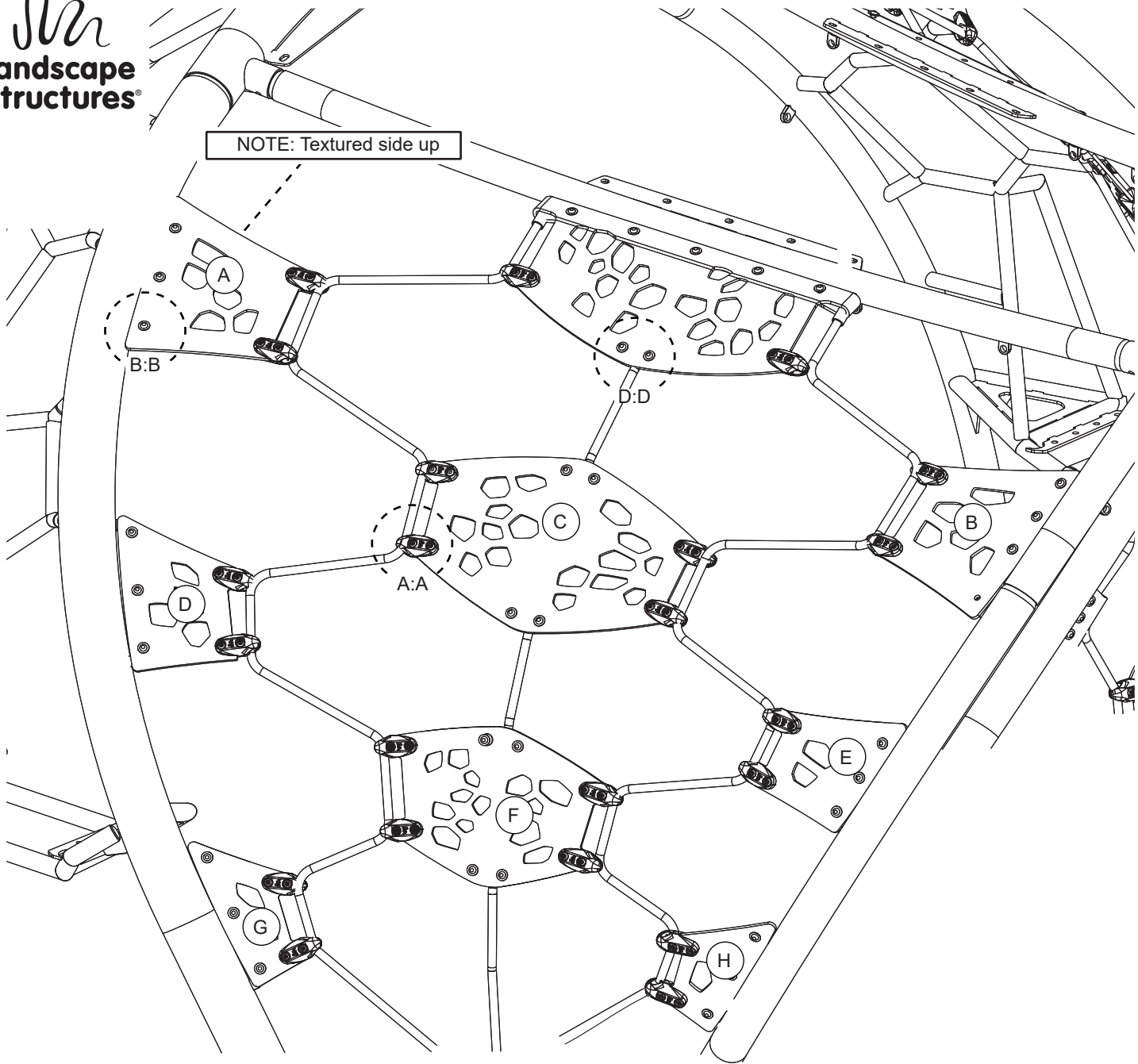
D:D



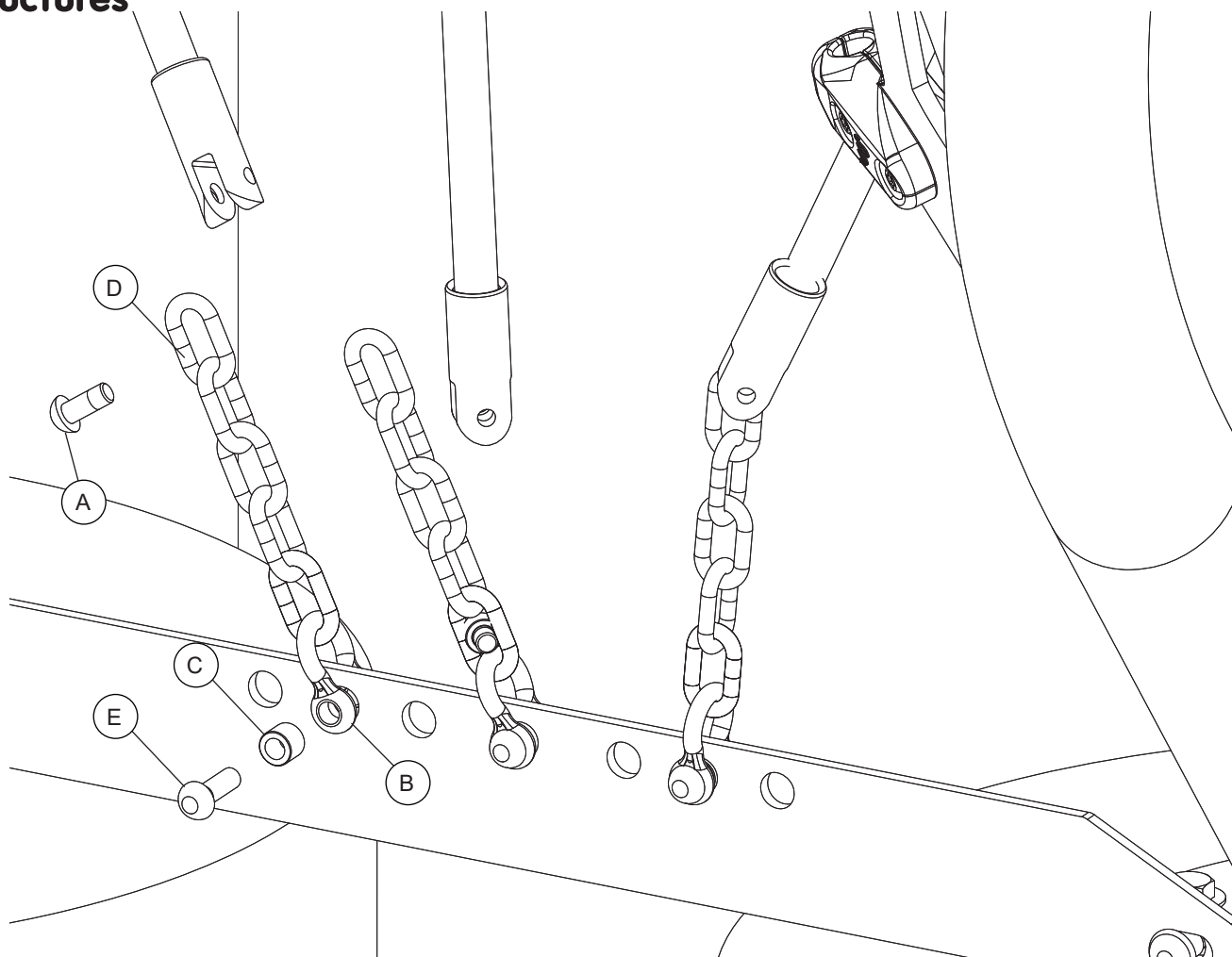
E:E

*	Part#	Description
A	100195	BHCS 6LP 3/8x5/8i SST
B	100196	BHCS 6LP 3/8x7/8i SST
C	100353	FLG NUT 6LP 3/8-16 SST
D	100362	WASHER FLAT 3/8i SST
E	113550	1/2i WASHER
F	175006	FLG NUT 6LP 5/16-18 SST

Qty.	*	Part#	Description	Qty.
55	G	223807	"BHCS 6LP 5/16i -18 X 3/4i"	76
6	H	241518	BELT-ROPE T-CONNECTOR	76
41	I	290512	BELT TO ROPE CLAMP CASTING	10
41	J	100364	WASHER FLAT SAE 1/4i SST	4
41	K	216761	BHCS TORX #14 x 3/4 SST	4
76	L	100365	WASHER FLAT SAE 3/8i SST	20



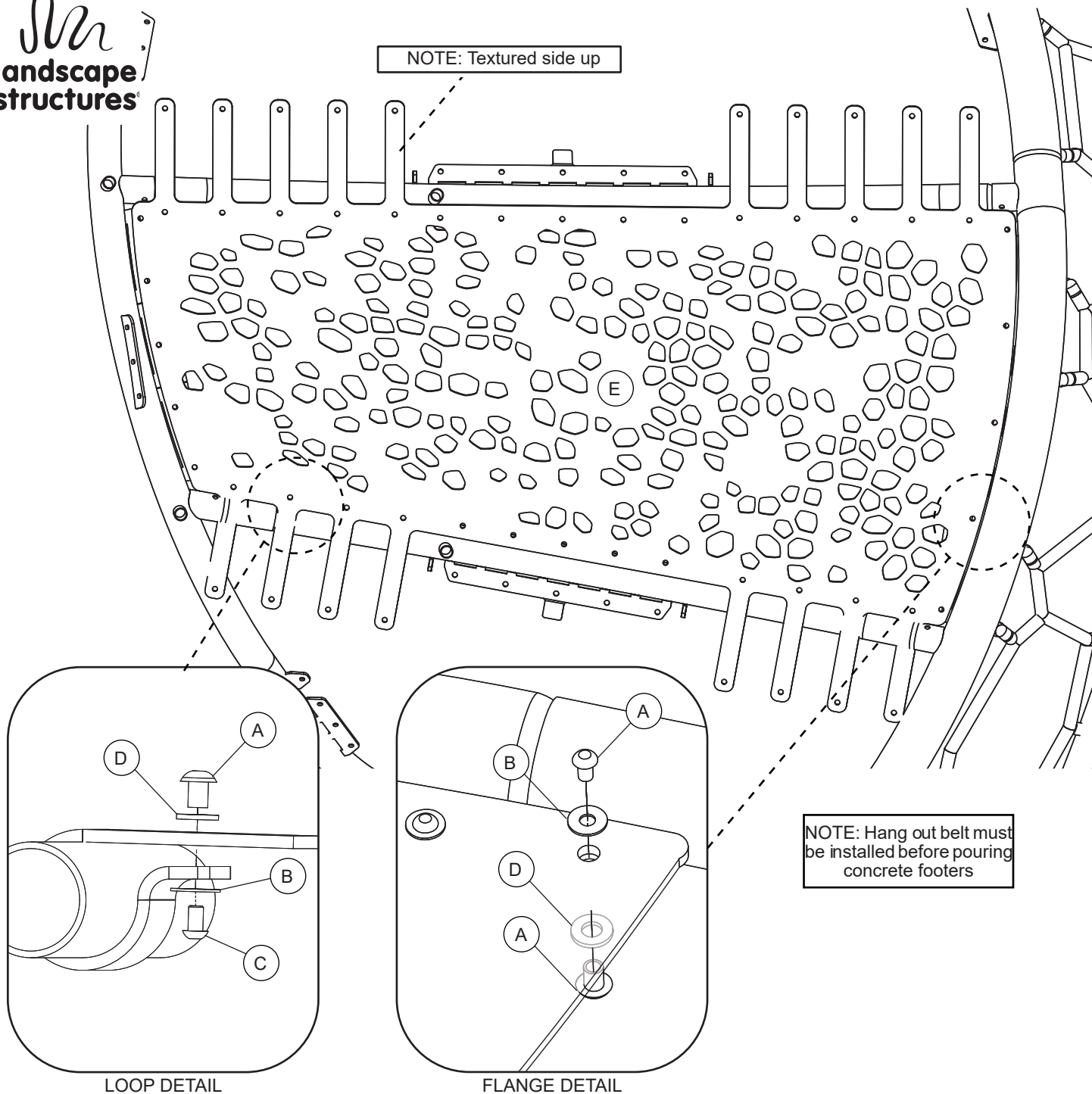
* Part#	Description	Qty.	* Part#	Description	Qty.
A 286191	DBL ARCH CLIMBER BELT A1	1	E 286193	DBL ARCH CLIMBER BELT A5	1
B 286192	DBL ARCH CLIMBER BELT A2	1	F 286216	DBL ARCH BELT CLIMBER A7	1
C 286215	DBL ARCH CLIMBER BELT A3	1	G 286188	DBL ARCH CLIMBER BELT A9	1
D 286189	DBL ARCH BELT CLIMBER A5	1	H 286194	DBL ARCH CLIMBER BELT A8	1



NOTE: ROPES ENDS SHOULD
BE EQUAL LENGTHS. ADJUST
ROPE CLAMPS TO ACHIEVE
PROPER SPACING.

*	Part#	Description	Qty.
A	100290	BHCS 6LP LTHD 3/8X7/8 SST	6
B	138915	BOLT LINK SST	6
C	156962	BUSH 5/8 OD X 1/2 LG SST	6
D	165338	CHN 1/4i P70 PGD, 6-9/16" 5 LINK	6
E	100292	"BHCS 6LP LTHD 3/8 X 1-1/4 SST W/PATCH"	6

NOTE: Textured side up



LOOP DETAIL

FLANGE DETAIL

*	Part#	Description	Qty.
A	100353	FLG NUT 6LP 3/8-16 SST	34
B	100362	WASHER FLAT 3/8i SST	34
C	100195	BHCS 6LP 3/8x5/8i SST	34
D	113550	1/2i WASHER	34
E	289495	DBL ARCH HANG OUT BELT	1

Parts List

Part#	Description	Qty.
285502	DBL ARCH 5i FRM A	1
285503	DBL ARCH 5i FRM B	1
285504	DBL ARCH 5i FRM C	1
291335	DBL ARCH 3.5i FRM A ROPE CLIMBER	1
285506	DBL ARCH 3.5i FRM B	1
285507	DBL ARCH 3.5i FRM C	1
285508	DBL ARCH 2.875i FRM A	1
285509	DBL ARCH 2.875i FRM B	1
285510	DBL ARCH 2.875i FRM C	1
293323	DBL ARCH CLIMBER 2.875i SPRT A	1
293324	DBL ARCH CLIMBER 2.875i SPRT B	1
286188	DBL ARCH CLIMBER BELT A1	1
286189	DBL ARCH CLIMBER BELT A2	1
286191	DBL ARCH CLIMBER BELT A3	1
286195	DBL ARCH CLIMBER TOP BELT A	1
286192	DBL ARCH CLIMBER BELT A4	1
286193	DBL ARCH CLIMBER BELT A5	1
286194	DBL ARCH CLIMBER BELT A6	1
286357	DBL ARCH CLIMBER TOP BELT B	1
286198	DBL ARCH CLIMBER BELT B2	1
286199	DBL ARCH CLIMBER BELT B3	1
286200	DBL ARCH CLIMBER BELT B4	1
286201	DBL ARCH CLIMBER BELT B5	1
286202	DBL ARCH CLIMBER BELT B6	2
286206	DBL ARCH CLIMBER ROPE A1	1
286207	DBL ARCH CLIMBER ROPE A2	1
286208	DBL ARCH CLIMBER ROPE B1	1
286209	DBL ARCH CLIMBER ROPE B2	1
286215	DBL ARCH CLIMBER BELT A7	1
286216	DBL ARCH CLIMBER BELT A8	1
286218	DBL ARCH CLIMBER BELT B7	1
286219	DBL ARCH CLIMBER BELT B8	1
138915	BOLT LINK SST	22
156962	BUSHING 5/8 OD X 1/2 LG SST	16
100290	BHCS 6LP LTHD 3/8x7/8SST	32
165338	CUST CHN 1/4i P70 6-3/4i	6
198497	CHN 1/4i P70 17-5/16i LONG	1
196890	CHN 1/4i P70 24-1/4i	1
196887	CHN 1/4i P70 19-1/4i	5
194074	CHN 1/4i P70 14i LG	1
200441	CHAIN 30i	2
241518	BELT-ROPE T-CONNECTOR	76
175006	FLG NUT 6LP 5/16-18 SST	76
223807	BHCS 6LP 5/16i -18 X 3/4i SST	76
289663	FRAME SPACER PLT SHORT PNT	1
289664	FRAME SPACER PNT LONG PNT	1
289450	DBL ARCH CLIMBER ROPE B3	1
289449	DBL ARCH CLIMBER ROPE A3	1
289495	DBL ARCH HANG OUT BELT	1
290512	QUANTIS ROPE CASTING	26
127179	BUSHING 5/8OD X 3/8 LG SST	44
100195	BHCS 6LP 3/8x5/8i SST	113
100196	BHCS 6LP 3/8x7/8i SST	77
100175	BHCS 6LP 3/8x2-3/4i SST	4
100171	BHCS 6LP 3/8x1-1/2SSTPAT	6
113550	WASHER FLAT SAE 1/2i SST	99
100363	WASHER FLAT 1/2i SST	60
100362	WASHER FLAT 3/8i SST	99
100365	WASHER FLAT SAE 3/8i SST	89
100353	FLG NUT 6LP 3/8-16 SST	107
216761	BHCS TORX #14 x 1 SST	4
100364	WASHER FLAT SAE 1/4i SST	4
177932	POD BOLT PLATE	4
192748	Cable Ball Knot Half	6
154460	EVOS CLIMB ACROSS POD	4
178586	SPACER 1.315 OD 1-5/8 AL	4
247871	SINGLE ROPE FOOTER HDG	4
286304	DBL ARCH SWIGGLE KNOT ROPE A / 005 Black	1

286305	DBL ARCH POD ROPE B / 005 Black	1
286306	DBL ARCH POD ROPE C / 005 Black	1
286307	DBL ARCH SWIGGLE KNOT ROPE D / 005 Black	1
157224	BSHG .439i ID X 1.156 SST	4
157704	BHCS 6LP LTHD 7/16x2i SST	4
162729	CONN PLUG HALF ABS	8
193982	OODLE SWING SEAT	1
282320	CUST FIGURE 8 SPRT CROSS ARM OODLE SWG	2
172045	OODLE SWING BUMPER	2
282264	OODLE SWING FOOTER PLATE PNT / 005 Black	1
286389	DBL ARCH OODLE SWING ROPE A / 005 Black	1
286391	DBL ARCH OODLE SWING ROPE B / 005 Black	1
286392	DBL ARCH OODLE SWING ROPE C / 005 Black	1
286393	DBL ARCH OODLE SWING ROPE D / 005 Black	1
255160	Large Rope Swivel Tab	8
292015	DBL ARCH CLIMBER ROPE C1	1
292016	DBL ARCH CLIMBER ROPE C2	1
292017	DBL ARCH CLIMBER ROPE C3	1
292018	DBL ARCH CLIMBER ROPE C4	1
218781	ROPE SWIVEL TAB	6
292112	DBL ARCH RUNG CLIMBER 1	1
292113	DBL ARCH RUNG CLIMBER 2	4
292114	DBL ARCH RUNG CLIMBER 3	1
292136	DBL ARCH BELT RUNG WLDMT TOP	1
292137	DBL ARCH BELT RUNG WLDMT BOTTOM	1
158959	RIVET 1/4 X 1/4 DRV AA	40
100611	RIVET 1/4X3/8i DRV AS	4
292110	DBL ARCH RUNG CLIMBER CAP WLDMT	16
292119	DBL ARCH RUNG CLIMBER BELT	1
292111	DBL ARCH RUNG CLIMBER FOOTER / 005 Black	1
287111	DBL ARCH BALL KNOT ROPE / 005 Black	1
287029	DBL ARCH XFR BELT	1
287411	Q2A XFER BELT PLT A / 166 Gray	2
287412	Q2A XFER BELT PLT B / 166 Gray	2
100349	NUT L/C CAP 3/8-16 SST	20
287387	BOLT ON PIER FOOTER	6
210058	HEX CAP 1/2X2i SST	30
129692	NUT HEX STD 1/2-13 SSTPAT	30
100292	BHCS 6L LTHD 3/8x1-1/4SST	38
294392	HDW PKG SPARE PARTS QUANTIS A DB	1
251713	5i Formed Play Safe Plate 5-12 Years w/Attaching HDW	1

SPECIFICATIONS

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

Cable/Net Assemblies: (Cable) Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core. (Cable Connectors) 6063-T6 aluminum.

Belting: . 315" (8,00 mm) Thick mini rough top rubber belting with polyester fabric plys, black in color.

Main structure/Arches:

5" O.D. .120" wall (11GA) galvanized steel. 3.5" O.D. .165 wall (8GA) galvanized steel. 2.875" O.D. .164 wall (RS40) galvanized steel. Double arch supports – 2.875" O.D. .164 wall (RS40) galvanized steel. Ladder – 1.315" O.D. .083 wall (RS20) galvanized steel. Steel plates/Tabs: HRPO Steel .250 thickness, HRPO Steel .1793" thickness, HRPO Steel .375" thickness. Tabs - .375" 304 stainless steel.

Oodle swing seat/Ball knots:

Rotationally molded from U.V. stabilized linear low-density polyethylene, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Rung ladder footer: Stainless steel .250" thickness, specify color.

Play Component footers:

HRPO Steel .250 thickness, hot dip galvanize finish.

Ladder rungs: 2.375" O.D. .109" wall galvanized tube, specify color. Handrails – 1.029" O.D. .075" wall galvanized steel

Installation Time: 80 labor hours

Concrete: DB Approx. 54 cu. ft.

Fall Height: 83" (2108 mm)

Weight: 1500 lbs.