MENDENHALL RIVER COMMUNITY SCHOOL SITE AND PLAYGROUND UPGRADES

Contract No. BE21-240

File No. 2101



ENGINEERING DEPARTMENT

DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

BIDDING and CONTRACT REQUIREMENTS

No. of Pages

00005	Table of Contents	2
00030	Notice Inviting Bids	3
00100	Instructions to Bidders	10
00300	Bid	2
00310	Bid Schedule	1
00320	Bid Bond	1
00360	Subcontractor Report	2
00370	Contractor's Financial Responsibility	3

CONTRACT FORMS

00500	Agreement	6
00610	Performance Bond	2
00620	Payment Bond	2

CONDITIONS OF THE CONTRACT

00700	General Conditions	44
00800	Supplementary General Conditions	5
00830	Alaska Labor Standards, Reporting, and	
	Prevailing Wage Rate Determination	1
	Appendix A – Pamphlet 600 – Effective April 1, 2021	39

TECHNICAL SPECIFICATIONS

011000		4
011000	Summary	4
012300	Alternates	2
012500	Substitution Procedures	4
012600	Contract Modification Procedures	2
012900	Payment Procedures	3
013100	Project Management and Coordination	7
013200	Construction Progress Documentation	4
013300	Submittal Procedures	8
014000	Quality Requirements	6
014200	References	2
015000	Temporary Facilities and Controls	4
016000	Product Requirements	5
017300	Execution	6
017700	Closeout Requirements	10
017823	Operation and Maintenance Data	7
017839	Project Record Documents	3
028800	Play Structures	3
028810	Playground Safety Surfacing	7
099990	Appendix: Play Equipment Provided by Owner	160

TABLE OF CONTENTS

SECTION 00005 - TABLE OF CONTENTS

DRAWINGS

C202 Poured-in-Place Details

END OF SECTION

SECTION 00030 - NOTICE INVITING BIDS

OBTAINING CONTRACT DOCUMENTS. The Contract Documents are entitled:

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

The Contract Documents may be downloaded from the CBJ Engineering Department webpage at: <u>https://juneau.org/engineering-public-works/current-bids-and-rfps</u>

PRE-BID CONFERENCE. Prospective Bidders are encouraged to attend a Pre-Bid conference of the proposed WORK, which will be conducted by the OWNER and ARCHITECT, at 10:00 a.m. on May 7, 2021, via teleconference. The object of the conference is to acquaint Bidders with the bid documents and site conditions. Prospective bidders intending to participate shall email caleb.comas@juneau.org by 4:30 p.m., May 6, 2021, to obtain the call-in instructions.

DESCRIPTION OF WORK. This Project generally consists of mobilization/demobilization, erosion and sediment control, demolition and disposal, clearing and grubbing, unclassified excavation, utilizing or disposing of excavated material, excavation dewatering, placement and compaction of base, subbase and usable excavated material, salvaging and placing salvaged pea gravel, importing and placing new pea gravel, adjusting existing storm and sanitary sewer structures, connecting to existing storm sewer pipes and structures, installing new storm drain pipes and structures, cleaning existing storm drain structures, construction surveying, installing filter cloth, placing topsoil and seeding, installing underdrains, asphalt concrete pavement cutting and patching, installing playground equipment footings and OWNER-provided play equipment, installing "poured-in-place" fall protection surfacing, constructing concrete walks, miscellaneous grading, and site restoration to pre-construction conditions.

COMPLETION OF WORK.

Work Description	Completion Date
Substantial Completion	August 9, 2021
Final Completion	August 15, 2021

DEADLINE FOR BIDDER QUESTIONS: May 17, 2021, at 4:30PM.

DEADLINE FOR BIDS: Sealed bids must be received by the Purchasing Division <u>prior to 2:00 p.m.</u>, <u>Alaska Time on May 25, 2021</u>, or such later time as may be announced by addendum at any time prior to the deadline. Bids will be time and date stamped by the Purchasing Division, which will establish the official time of receipt of bids. Bids will be opened immediately thereafter via conference call. Bidders may attend this bid opening on the conference call line 907-713-2140, with participant code 258358.

Bid documents delivered in person or by **<u>courier</u>** service must be delivered to:

PHYSICAL LOCATION:

City and Borough of Juneau, Purchasing Division 105 Municipal Way, Room 300 Juneau, AK 99801 Bid documents delivered by the <u>U.S. Postal</u> <u>Service</u> must be mailed to:

MAILING ADDRESS:

City and Borough of Juneau, Purchasing Division 155 South Seward Street Juneau, AK 99801

SECTION 00030 - NOTICE INVITING BIDS

Please affix the label below to outer envelope in the lower left hand corner.

IMPORTAN	IT NOTICE TO BIDDER	
To submit y	our Bid:	
1. Print you	ar company name and address on the upper	left corner of
your env	velope.	
	te this label and place it on the lower lef	t corner
of your	envelope.	1
S	BID NUMBER: <u>BE21-240</u>	
E		В
Α	SUBJECT:	I
L	<u>MRCS Site & Playground</u>	D
E	<u>Upgrades</u>	
D		
	DEADLINE DATE:	
	PRIOR TO 2:00PM ALASKA	
	TIME	

Mailing/delivery times to Alaska may take longer than other areas of the U.S. Late bids will <u>not</u> be accepted and will be returned.

SITE OF WORK. The site of the WORK is Mendenhall River Community School located at 9101 Mendenhall Loop Rd in Juneau, Alaska.

BIDDING, CONTRACT, or TECHNICAL QUESTIONS. All communications relative to this WORK, prior to opening Bids, shall be directed to the following:

Greg Smith, Contract Administrator CBJ Engineering Department, 3rd Floor, Marine View Center greg.smith@juneau.org Telephone: (907) 586-0800 ext. 4194 Fax: (907) 586-4530

BID SECURITY. Each Bid shall be accompanied by a certified or cashier's check or Bid Bond, in the amount of 5% percent of the Bid, payable to the City and Borough of Juneau, Alaska, as a guarantee that the Bidder, if its Bid is accepted, will promptly execute the Agreement. A Bid shall not be considered unless one of the forms of Bidder's security is enclosed with it.

CONTRACTOR'S LICENSE. All contractors are required to have a current Alaska Contractor's License, prior to submitting a Bid, and a current Alaska Business License prior to award.

BID TO REMAIN OPEN. The Bidder shall guarantee the Bid for a period of 45 Days from the date of Bid opening. Any component of the Bid including Additive Alternates may be awarded anytime during the 45 Days.

SECTION 00030 - NOTICE INVITING BIDS

OWNER'S RIGHTS RESERVED. The OWNER reserves the right to reject any or all Bids, to waive any informality in a Bid, and to make award to the lowest responsive, responsible Bidder as it may best serve the interests of the OWNER.

OWNER: City and Borough of Juneau

By: By: Greg Smith, Contract Administrator

4-28-2021 Date

END OF SECTION

MRCS SITE AND PLAYGROUND UPGRADES **CBJ Contract No. BE21-240**

1.0 DEFINED TERMS. Terms used in these Instructions to Bidders and the Notice Inviting Bids, which are defined in the General Conditions, have the meanings assigned to them in the General Conditions. The term "Bidder" means one who submits a Bid directly to the OWNER, as distinct from a sub-bidder, who submits a Bid to a Bidder.

2.0 INTERPRETATIONS AND ADDENDA.

- A. INTERPRETATIONS. All questions about the meaning or intent of the Contract Documents are to be directed to the Engineering Contracts Administrator. Interpretations or clarifications considered necessary by the Engineering Contracts Administrator in response to such questions will be issued by Addendum, mailed, faxed, or delivered to all parties recorded by the Engineering Contracts Administrator, or OWNER, as having received the Contract Documents. Questions received less than seven Days prior to the Deadline for Bids may not be answered. Only questions answered by formal written Addendum will be binding. Oral and other interpretations or clarifications will be without legal effect.
- B. ADDENDA. Addenda may be issued to modify the Contract Documents as deemed advisable by the OWNER. Addenda may be faxed or, if addendum format warrants, addenda may be posted to the CBJ Engineering Department website. In any event, notification of addendum issuance will be faxed to planholders. Hard copies are available upon request. The OWNER will make all reasonable attempts to ensure that all planholders receive notification of Addenda, however, it is strongly recommended by the OWNER that bidders independently confirm the contents, number, and dates of each Addendum prior to submitting a Bid.
- **3.0** FAIR COMPETITION. More than one Bid from an individual, firm, partnership, corporation, or association under the same or different names will not be considered. If the OWNER believes that any Bidder is interested in more than one Bid for the WORK contemplated, all Bids in which such Bidder is interested will be rejected. If the OWNER believes that collusion exists among the Bidders, all Bids will be rejected.
- **4.0 RESPONSIBILITY OF BIDDERS.** Only responsive Bids from responsible Bidders will be considered. A Bid submitted by a Bidder determined to be not responsible may be rejected. The OWNER may find a bidder to be not responsible for any one of the following reasons, but is not limited in its responsibility analysis to the following factors:
 - A. Evidence of bid rigging or collusion;
 - B. Fraud or dishonesty in the performance of previous contracts;
 - C. Record of integrity;
 - D. More than one bid for the same work from an individual, firm, or corporation under the same or different name;
 - E. Unsatisfactory performance on previous or current contracts;
 - F. Failure to pay, or satisfactorily settle, all bills due for labor and material on previous contracts;

- G. Uncompleted work that, in the judgment of the OWNER, might hinder or prevent the bidder's prompt completion of additional work, if awarded;
- H. Failure to reimburse the OWNER for monies owed on any previous contracts;
- I. Default under previous contracts;
- J. Failure to comply with any qualification requirements of the OWNER; special standards for responsibility, if applicable, will be specified. These special standards establish minimum standards or experience required for a responsible Bidder on a specific contract;
- K. Engaging in any activity that constitutes a cause for debarment or suspension under the CBJ Procurement Code 53.50 or submitting a bid during a period of debarment;
- L. Lack of skill, ability, financial resources, or equipment required to perform the contract.
- M. Lack of legal capacity to contract.
- N. Bidders must be registered as required by law and in good standing for all amounts owned to the OWNER per Paragraph 21.0 of this Section.

Nothing contained in this section deprives the OWNER of its discretion in determining the lowest responsible bidder. Before a Bid is considered for award, a Bidder may be requested to submit information documenting its ability and competency to perform the WORK, according to general standards of responsibility and any special standards which may apply. It is Bidder's responsibility to submit sufficient, relevant, and adequate information. OWNER will make its determination of responsibility and has no obligation to request clarification or supplementary information.

- **5.0 NON-RESPONSIVE BIDS.** Only responsive Bids will be considered. Bids may be considered non-responsive and may be rejected. Some of the reasons a Bid may be rejected for being non-responsive are:
 - A. If a Bid is received by the CBJ Purchasing Division after the Deadline for Bids.
 - B. If the Bid is on a form other than that furnished by the OWNER, or legible copies thereof; or if the form is altered or any part thereof is detached; or if the Bid is improperly signed.
 - C. If there are unauthorized additions, conditional or alternate Bids, or irregularities of any kind which may tend to make the bid incomplete, indefinite, ambiguous as to its meaning, or in conflict with the OWNER's Bid document.
 - D. If the Bidder adds any unauthorized conditions, limitations, or provisions reserving the right to accept or reject any award, or to enter into a contract pursuant to an award. This does not exclude a Bid limiting the maximum gross amount of awards acceptable to any one Bidder at any one Bid opening, provided that any selection of awards will be made by the OWNER.
 - E. If the Bid does not contain a Unit Price for each pay item listed, except in the case of authorized alternate pay items.

- F. If the Bidder has not acknowledged receipt of each Addendum.
- G. If the Bidder fails to furnish an acceptable Bid guaranty with the Bid.
- H. If any of the Unit Prices Bid are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the OWNER.
- I. If a Bid modification does not conform to Article 15.0 of this Section.
- J. Failure to submit <u>all</u> completed documents as required and specified on the Bid Form, Section 00300.
- 6.0 **BIDDER'S EXAMINATION OF CONTRACT DOCUMENTS AND SITE**. It is the responsibility of each Bidder before submitting a Bid:
 - A. To examine thoroughly the Contract Documents, and other related data identified in the Bidding documents (including "technical data" referred to below):
 - 1. To visit the site to become familiar with and to satisfy the Bidder as to the general and local conditions that may affect cost, progress, or performance, of the WORK,
 - 2. To consider federal, state and local laws and regulations that may affect cost, progress, or performance of the WORK,
 - 3. To study and carefully correlate the Bidder's observations with the Contract Documents, and other related data; and
 - 4. To notify the ARCHITECT of all conflicts, errors, or discrepancies in or between the Contract Documents and such other related data.

7.0 REFERENCE IS MADE TO THE SUPPLEMENTARY GENERAL CONDITIONS FOR IDENTIFICATION OF:

- A. Those reports of explorations and tests of subsurface conditions at the site which have been utilized by the Architect of Record in the preparation of the Contract Documents. The Bidder may rely upon the accuracy of the technical data contained in such reports, however, the interpretation of such technical data, including any interpolation or extrapolation thereof, together with non-technical data, interpretations, and opinions contained therein or the completeness thereof is the responsibility of the Bidder.
- B. Those Drawings of physical conditions in or relating to existing surface and subsurface conditions (except underground utilities) which are at or contiguous to the site have been utilized by the Architect of Record in the preparation of the Contract Documents. The Bidder may rely upon the accuracy of the technical data contained in such Drawings, however, the interpretation of such technical data, including any interpolation or extrapolation thereof, together with nontechnical data, interpretations, and opinions contained in such Drawings or the completeness thereof is the responsibility of the Bidder.
- C. Copies of such reports and Drawings will be made available by the OWNER to any Bidder on request if said reports and Drawings are not bound herein. Those reports and Drawings are not part of the Contract Documents, but the technical data contained therein upon which the Bidder is entitled to rely, as provided in Paragraph SGC-4.2 of the Supplementary General Conditions, are incorporated herein by reference.

- D. Information and data reflected in the Contract Documents with respect to underground utilities at or contiguous to the site is based upon information and data furnished to the OWNER and the Architect of Record by the owners of such underground utilities or others, and the OWNER does not assume responsibility for the accuracy or completeness thereof unless it is expressly provided otherwise in the Supplementary General Conditions, or in Section 01530 Protection and Restoration of Existing Facilities of the General Requirements.
- E. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on subsurface conditions, underground utilities and other physical conditions, and possible changes in the Contract Documents due to differing conditions appear in Paragraphs 4.2, 4.3, and 4.4 of the General Conditions.
- F. Before submitting a Bid, each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests, and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface, and underground utilities) at or contiguous to the site or otherwise which may affect cost, progress, or performance of the WORK and which the Bidder deems necessary to determine its Bid for performing the WORK in accordance with the time, price, and other terms and conditions of the Contract Documents.
- G. On request in advance, the OWNER will provide each Bidder access to the site to conduct such explorations and tests as each Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and shall clean up and restore the site to its former condition upon completion of such explorations.
- H. The lands upon which the WORK is to be performed, rights-of-way and easements for access thereto and other lands designated for use by the CONTRACTOR in performing the WORK are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by the CONTRACTOR. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by the OWNER unless otherwise provided in the Contract Documents.
- I. The submission of a Bid will constitute an incontrovertible representation by the Bidder that the Bidder has complied with every requirement of Article 6.0, "Bidder's Examination of Contract Documents and Site" herein, that without exception the Bid is premised upon performing the WORK required by the Contract Documents and such means, methods, techniques, sequences, or procedures of construction as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the WORK.

8.0 BID FORM.

A. The Bid shall be made on the Bid Schedule(s) bound herein, or on the yellow Bid packet provided, or on legible and complete copies thereof, and shall contain the following: Sections 00300, 00310, the required Bid Security, and any other documents required in Section 00300 – Bid.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

- B. All blanks on the Bid Form and Bid Schedule must be completed in ink or typed.
- C. Bids by corporations must be executed in the corporate name by the president, a vice-president (or other corporate officer). The corporate address and state of incorporation must appear below the signature.
- D. Bids by partnerships must be executed in the partnership name and be signed by a managing partner, and the official address of the partnership must appear below the signature.
- E. The Bidder's Bid must be signed. All names must be printed or typed below the signature.
- F. The Bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the Bid form. <u>Failure to acknowledge Addenda may render Bid</u> non-responsive and may cause its rejection.
- G. The address to which communications regarding the Bid are to be directed must be shown.
- **9.0 QUANTITIES OF WORK.** The quantities of WORK, or material, stated in Unit Price items of the Bid are supplied only to give an indication of the general scope of the WORK; the OWNER does not expressly or by implication agree that the actual amount of WORK, or material, will correspond therewith, and reserves the right after award to increase or decrease the amount of any Unit Price item of the WORK by an amount up to and including 25 percent of any Bid item, without a change in the Unit Price, and shall include the right to delete any Bid item in its entirety, or to add additional Bid items up to and including an aggregate total amount not to exceed 25 percent of the Contract Price (see Section 00700 General Conditions, Article 10 Changes In the WORK).
- **10.0 SUBSTITUTE OR "OR-EQUAL" ITEMS.** Substitution requests are not accepted during the bidding process. The procedure for the submittal of substitute or "or-equal" products is specified in Section 012500 Contractor Submittals.
- **11.0 SUBMISSION OF BIDS**. The Bid shall be delivered by the time and to the place stipulated in Section 00030 Notice Inviting Bids. It is the Bidder's sole responsibility to see that its Bid is received in proper time. <u>Oral, telegraphic, emailed, or faxed Bids will not be considered</u>. The envelope enclosing the sealed Bids shall be plainly marked in the upper left-hand corner with the name and address of the Bidder and shall also include the label included in Section 00030 Notice Inviting Bids. The Bid Security shall be enclosed in the same envelope with the Bid
- **12.0 BID SECURITY, BONDS, AND INSURANCE**. Each Bid shall be accompanied by a certified, or cashier's check, or approved Bid Bond in an amount of at least 5 percent of the total Bid price. The "total Bid price" is the amount of the Base Bid, plus the amount of alternate Bids, if any, which total to the maximum amount for which the CONTRACT could be awarded. Said check or Bond shall be made payable to the OWNER and shall be given as a guarantee that the Bidder, if offered the WORK, will enter into an Agreement with the OWNER, and will furnish the necessary insurance certificates, Payment Bond, and Performance Bond; each of said Bonds, if required, and insurance amounts shall be as stated in the Supplementary General Conditions. In case of refusal or failure to enter into said Agreement, the check or Bid Bond as its Bid security, the Bidder shall use the Bid Bond form bound herein, or one conforming substantially to it in form. Bid Bonds must be accompanied by a legible Power of Attorney.

- **13.0 RETURN OF BID SECURITY.** The OWNER will return all Bid security checks (certified or cashier's) accompanying such of the Bids as are not considered in making the award. All other Bid securities will be held until the Agreement has been executed. Following execution of the Agreement, all other Bid security checks will be returned to the respective Bidders whose Bids they accompanied and Bid security bonds will be appropriately discarded.
- **14.0 DISCREPANCIES IN BIDS**. In the event there is more than one Pay Item in a Bid Schedule, the Bidder shall furnish a price for all Pay Items in the schedule, and failure to do so may render the Bid non-responsive and cause its rejection. In the event there are Unit Price Pay Items in a Bid Schedule and the "amount" indicated for a Unit Price Bid Item does not equal the product of the Unit Price and quantity, the Unit Price shall govern and the amount will be corrected accordingly, and the Bidder shall be bound by said correction. In the event there is more than one Pay Item in a Bid Schedule and the total indicated for the schedule does not agree with the sum of the prices Bid on the individual items, the prices Bid on the individual items shall govern and the total for the schedule will be corrected accordingly, and the Bidder shall be bound by said correction.

15.0 BID MODIFICATIONS AND UNAUTHORIZED ALTERNATIVE BIDS.

A. Any bidder may deliver a modification to a bid in person, by mail or fax (907-586-4561), provided that such modification is received by the Purchasing Division no later than the deadline for bids. Modifications will be time and date stamped by the Purchasing Division, which will establish the official time of receipt of the modification. The modification must not reveal the bid price but should be in the form of an addition or subtraction or other modification so that the final prices will not be known until the sealed bid is opened.

The Bid modifications shall be provided on the **Bid Modification Form** located at the end of this Section. Submittal of any other form by the vendor may deem the modification unacceptable by the OWNER **A mail or fax modification should not reveal the Bid price but should provide the addition or subtraction or other modification so that the final prices will not be known by the City and Borough until the sealed Bid is opened.** Submitted Modification forms shall include the modification to the unit price or lump sum amount of each pay item modified.

FAX DISCLAIMER: It is the responsibility of the bidder to submit modifications in a timely manner. Bidders' use of a fax machine to modify their bid shall be at bidders' sole risk. The Purchasing Division will attempt to keep the fax machine in good working order but will not be responsible for bid modifications that are late due to mechanical failure, a busy fax machine, or any other cause arising from bidder's use of a fax machine, even if bidder submits a transmission report or provides other confirmation indicating that the bidder transmitted a bid modification prior to the deadline. The City will not be responsible for its failure to receive the modification whether such failure is caused by equipment or human error, or otherwise. Bidders are therefore strongly encouraged to confirm receipt of their bid modification with the Purchasing Division (907-586-5258) prior to deadline.

B. <u>Conditioned bids, limitations, or provisos attached to the Bid or bid modification will</u> render it unauthorized and cause its rejection as being non-responsive. The completed Bid forms shall be without interlineations, alterations, or erasures in the printed text. All changes shall be initialed by the person signing the Bid. Alternative Bids will not be

considered unless called for.

16.0 WITHDRAWAL OF BID. Prior to the Deadline for Bids, the Bid may be withdrawn by the Bidder by means of a written request, signed by the Bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of Bids.

17.0 AWARD OF CONTRACT.

- A. Award of a contract, if it is awarded, will be on the basis of materials and equipment described in the Drawings or specified in the Technical Specifications and will be made to the lowest responsive, responsible Bidder whose Bid complies with all the requirements prescribed. Unless otherwise specified, any such award will be made within the period stated in the Notice Inviting Bids that the Bids are to remain open. Unless otherwise indicated, a single award will be made for all the Bid items in an individual Bid Schedule.
- B. If the OWNER has elected to advertise this Project with a Base Bid and Alternates, the OWNER may elect to award the contract for the Base Bid, or the Base Bid in combination with one or more Alternates selected by the OWNER. In either case, award shall be made to the responsive, responsible bidder offering the lowest total Bid for the WORK to be awarded.
- C. Low Bidder will be determined on the basis of the lowest total of the Base Bid plus combinations of Alternates if funding allows, as selected by the Selection Committee through the process described below.
 - 1 Prior to the Deadline for Bids, a Selection Committee will be appointed by the Owner.
 - 2 The Selection Committee will be sequestered in a conference room apart from the bid opening room at the time of bid opening.
 - 3 The CBJ Purchasing staff will open bids. A bid summary sheet will be compiled without bidder identification, so that the Selection Committee will have no knowledge of which bids were made by which bidders.
 - 4 The bid summary sheet will be delivered to the Selection Committee by the Engineering Contract Administrator.
 - 5 The Selection Committee will choose the low bid comprised of the Base Bid and those Alternates deemed to be in the best interest of the project and within the approved construction budget. For award purposes, the CBJ will add any Alternate to the Total Base Bid Amount in Section 00310 – Bid Schedule.
 - 6 The Selection Committee will identify in order from low to high the bids received for the project and the results will be posted.

18.0 EXECUTION OF AGREEMENT.

A. All Bids of value greater than \$1,000,000 must be approved by the CBJ Assembly. After the CBJ Assembly has approved the award and after the Bid protest period, the OWNER will issue a Notice of Intent to Award to the approved Bidder. The Bidder to whom award is made shall execute a written Agreement with the OWNER on the Agreement form, Section 00500, collect insurance, and shall furnish all certificates and Bonds required by the Contract Documents within 10 Days (calendar) from the date of the Notice of Intent to Award letter.

- B. Failure or refusal to enter into the Agreement as herein provided or to conform to any of the stipulated requirements in connection therewith shall be just cause for annulment of the award and forfeiture of the Bid security. If the lowest responsive, responsible Bidder refuses or fails to execute the Agreement, the OWNER may award the contract to the second lowest responsive, responsible Bidder. If the second lowest responsive, responsible Bidder. Bidder refuses or fails to execute the Agreement, the OWNER may award the contract to the third lowest responsive, responsible Bidder. On the failure or refusal of such second or third lowest Bidder to execute the Agreement, each such Bidder's Bid securities shall be likewise forfeited to the OWNER.
- **19.0 LIQUIDATED DAMAGES.** Provisions for liquidated damages if any, are set forth in Section 00500 Agreement.

20.0 FILING A PROTEST.

- A. A Bidder may protest the proposed award of a competitive sealed Bid by the City and Borough of Juneau. The protest shall be executed in accordance with CBJ Ordinance 53.50.062 PROTESTS and CBJ Ordinance 53.50.080 ADMINISTRATION OF PROTEST. The entire text of the CBJ Purchasing Ordinance can be accessed at the CBJ website, http://www.juneau.org/law/code/code.php, or call the CBJ Purchasing Division at (907) 586-5215 for a copy of the ordinance.
- B. Late protests shall not be considered by the CBJ Purchasing Officer.
- C. This project may be funded with Alaska Department of Education and Early Development funds; per 4 AAC 31.080 (c), the written Bid protest shall be filed within 10 Calendar Days after the Notice of Intended Award of the contract has been issued. The written protest shall, at a minimum, contain the following:
 - > the name, address and telephone number of the interested party filing the protest;
 - the signature of the interested party;
 - identification of the proposed award at issue;
 - statement of legal or factual ground for protest;
 - copies of all relevant documents;
 - ➤ protest fee.
- 21.0 CONTRACTOR'S GOOD STANDING WITH CBJ FINANCE DEPARTMENT: Contractors must be in good standing with the CBJ prior to award, and prior to any contract renewals, and in any event no later than <u>seven business days</u> following notification by the CBJ of intent to award as indicated in the Posting Notice of Bids. Good standing means: all amounts owed to the CBJ are current and the Contractor is not delinquent with respect to any taxes, fees, assessment, or other monies due and owed the CBJ, or a Confession of Judgment has been executed and the Contractor is in compliance with the terms of any stipulation associated with the Confession of Judgment, including being current as to any installment payments due; and Contractor is current in all CBJ reporting obligations (such as sales tax registration and reporting and business personal property declarations). <u>Failure to meet these</u> requirements may be cause for rejection of your bid. To determine if your business is in good standing, or for further information, contact the CBJ Finance Department's Sales Tax Division at (907) 586-5215 for sales tax issues, Assessor's Office at (907)586-5215 for

business personal property issues, or Collections Division at (907) 586-5215 for all other accounts.

22.0 PERMITS AND LICENSES. The CONTRACTOR is responsible for all WORK associated with meeting any local, state, and/or federal permit and licensing requirements.

CITY AND BOROUGH OF JUNEAU PURCHASING DIVISION FAX NO. 907-586-4561

BID MODIFICATION FORM

Modification Number: _____

Note: All modifications shall be made to the original bid amount(s). If more than one Modification form is submitted by any one bidder, changes from all Modification forms submitted will be combined and applied to the original bid. Changes to the modified Bid amounts will be calculated by the OWNER.

PAY ITEM NO.	PAY ITEM DESCRIPTION	MODIFICATIONS TO LUMP SUM (indicate +/-)

Base Bid Total Increase or Decrease: <u>\$</u>_____

PAY ITEM No.	ALTERNATE PAY ITEM DESCRIPTION (if applicable to project)	MODIFICATIONS TO LUMP SUM (indicate +/-)

Alternate Total Increase or Decrease: <u>\$</u>______

Name of Bidding Firm

Responsible Party Signature

Printed Name (must be an authorized signatory for Bidding Firm)

END OF SECTION

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

BID TO: THE CITY AND BOROUGH OF JUNEAU

 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the OWNER in the form included in the Contract Documents (as defined in Article 7 of Section 00500 - Agreement) to perform the WORK as specified or indicated in said Contract Documents entitled

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

- 2. Bidder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the "Notice Inviting Bids" and "Instructions to Bidders," dealing with the disposition of the Bid Security.
- 3. This Bid will remain open for the period of time stated in the "Notice Inviting Bids" unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders," and will furnish insurance certificates, Payment Bond, Performance Bond, and any other documents as may be required by the Contract Documents.
- 4. Bidder has familiarized itself with the nature and extent of the Contract Documents, WORK, site, locality where the WORK is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the WORK and has made such independent investigations as Bidder deems necessary.
- 5. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.
- 6. To all the foregoing, and including all Bid Schedule and information required of Bidder contained in this Bid Form, said Bidder further agrees to complete the WORK required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the total bid price(s) named in the aforementioned Bid Schedule.
- 7. Bidder has examined copies of all the Contract Documents including the following Addenda (receipt of all of which is hereby acknowledged by the Undersigned):

Date Issued

Give number and date of each addenda above. Failure to acknowledge receipt of all Addenda may cause the Bid to be non-responsive and may cause its rejection.

SECTION 00300 - BID

8. The Bidder has read this Bid and agrees to the conditions as stated herein by signing his/her signature in the space provided below.

Bidder:		
	(Company Name)	
By:		
	(Signature)	
Drinted Names		
Printed Ivallie:		
T'41		
I itie:		
Address:		
	(Street or P.O. Box)	
	(City, State, Zip)	
—		
	By: Printed Name: 	(Company Name) By:

9. <u>TO BE CONSIDERED, ALL BIDDERS MUST COMPLETE AND INCLUDE THE FOLLOWING</u> <u>AT THE TIME OF THE DEADLINE FOR BIDS. **MISSING DOCUMENTS WILL DEEM THIS** <u>**BID NON-RESPONSIVE**</u>:</u>

- Bid, Section 00300 (includes addenda receipt statement)
- Completed Bid Schedule, Section 00310
- Bid Security (Bid Bond, Section 00320, or by a certified or cashier's check as stipulated in the Notice Inviting Bids, Section 00030)
- > Contractor Financial Responsibility, Section 00370
- 10. The apparent low Bidder is required to complete and submit the following documents by 4:30 p.m. on the *fifth business day* following the date of the Posting Notice.
 - Subcontractor Report, Section 00360

The apparent low Bidder who fails to submit the completed Subcontractor Report within the time specified in Section 00360 – Subcontractor Report, may be found to be not a responsible Bidder and may be required to forfeit the Bid security. The OWNER may then consider the next lowest Bidder for award of the contract.

- 11. The successful Bidder will be required to submit, within <u>ten Days (calendar)</u> after the date of the "Notice of Intent to Award" letter, the following executed documents:
 - Agreement Forms, Section 00500
 - Performance Bond, Section 00610
 - Payment Bond, Section 00620
 - Certificates of Insurance, (CONTRACTOR) Section 00700 and Section 00800

END OF SECTION

SECTION 00310 - BID SCHEDULE

Bid Schedule for construction of <u>BE21-240 Mendenhall River Community School Site and Playground</u> <u>Upgrades</u>, in accordance with the Contract Documents.

BASE BID - Furnish all labor, equipment and materials for mobilization/demobilization, erosion and sediment control, demolition and disposal, clearing and grubbing, unclassified excavation, utilizing or disposing of excavated material, excavation dewatering as required, placement and compaction of base, subbase and usable excavated material, salvaging and placing salvaged pea gravel, importing and placing new pea gravel, adjusting existing storm and sanitary sewer structures, connecting to existing storm sewer pipes and structures, installing new storm drain pipes and structures, cleaning existing storm drain structures, construction surveying, installing filter cloth, placing topsoil and seeding, installing underdrains, asphalt concrete pavement cutting and patching, installing playground equipment footings and OWNER-provided play equipment, installing "poured-in-place" fall protection surfacing, constructing concrete walks, miscellaneous grading, site restoration to preconstruction conditions, and performance of all WORK as described in these Contract Documents.

TOTAL BASE BID

(Price in Figures)

ADDITIVE ALTERNATE NO. 1 - Furnish all labor, equipment and materials and perform all WORK for installation of approximately 420 square feet "poured-in-place" fall protection surfacing in lieu of base course surfacing at a Pre-K Area location shown on the Drawings.

\$____

TOTAL ADDITIVE ALTERNATE NO. 1

(Price in Figures)

Date: _____ Bidder: _____

(Company Name)

END OF SECTION

SECTION 00320 - BID BOND

KNOW ALL PERSONS BY THESE PRESENTS, that_____

_____as Principal, and _____

as Surety, are held and firmly bound unto <u>THE CITY AND BOROUGH OF JUNEAU</u> hereinafter called "OWNER," in the sum of

______ dollars, (not less than five percent of the total amount of the Bid) for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the Bid Schedule of the OWNER's Contract Documents entitled

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders" enters into a written Agreement on the form of Agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this _____ day of _____, 20___.

(SEAL)_____

(Principal)

(SEAL)_____(Surety)

Ву:_____

(Signature)

By:_____(Signature)

END OF SECTION

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

SECTION 00360 - SUBCONTRACTOR REPORT

LIST OF SUBCONTRACTORS (AS 36.30.115)

The apparent low Bidder must submit a list of Subcontractors that the Bidder proposes to use in the performance of this contract on the fifth business day following the Posting Notice of Bids. If the fifth day falls on a weekend or holiday, the report is due by close of business on the next business Day following the weekend or holiday. The Subcontractor Report list must include each Subcontractor's name, address, location, evidence of valid Alaska Business License, and valid Alaska Contractor's Registration under AS 08.18. If no Subcontractors are to be utilized in the performance of the WORK, write in ink or type "NONE" on line (1) below

<u>SI</u>	UBCONTRACTOR	¹ AK Contractor <u>License No.</u>	¹ Contact Name	<u>Type of</u>	<u>Contract</u>	✓ i
	ADDRESS	² AK Business <u>License No.</u>	² <u>Phone No.</u>	<u>Work</u>	<u>Amount</u>	f <u>DBE</u>
1		l			\$	
_		2				
2		1			\$	
		2				
		1			¢	
J		1 2			\$	
4		2			\$	_
		<u> </u>				

I certify that the above listed Alaska Business License(s) and CONTRACTOR Registration(s), if applicable, were valid at the time Bids were opened for this Project.

CONTRACTOR, Authorized Signature

CONTRACTOR, Printed Name

COMPANY

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

SECTION 00360 - SUBCONTRACTOR REPORT

- A. A Bidder may replace a listed Subcontractor if the Subcontractor:
 - 1. fails to comply with AS 08.18;
 - 2. files for bankruptcy or becomes insolvent;
 - 3. fails to execute a contract with the Bidder involving performance of the WORK for which the Subcontractor was listed and the Bidder acted in good faith;
 - 4. fails to obtain bonding;
 - 5. fails to obtain insurance acceptable to the OWNER;
 - 6. fails to perform the contract with the Bidder involving work for which the Subcontractor was listed;
 - 7. must be substituted in order for the CONTRACTOR to satisfy required state and federal affirmative action requirements;
 - 8. refuses to agree or abide with the Bidder's labor agreement; or
 - 9. is determined by the OWNER not to be responsible.
 - 10. is not in "Good Standing" with the OWNER as required in Article 21.0 in Section 00100 – Instructions to Bidders.
- B. If a Bidder fails to list a Subcontractor or lists more than one Subcontractor for the same portion of WORK, the Bidder shall be considered to have agreed to perform that portion of WORK without the use of a Subcontractor and to have represented the Bidder to be qualified to perform that WORK.
- C. A Bidder who attempts to circumvent the requirements of this section by listing as a Subcontractor another contractor who, in turn, sublets the majority of the WORK required under the contract violates this section.
- D. If a contract is awarded to a Bidder who violates this section, the OWNER may:
 - 1. cancel the contract; or
 - 2. after notice and a hearing, assess a penalty on the Bidder in an amount that does not exceed 10 percent of the value of the subcontract at issue.
- E. On the Subcontractor Report, the apparent low Bidder must list any Subcontractors anticipated to perform WORK with a value of greater than one-half of one percent of the intended award amount, or \$2,000, whichever is less.
- F. An apparent low Bidder who fails to submit a completed Subcontractor Report within the time specified in this section may be found to be not a responsible Bidder and may be required to forfeit the Bid security. The OWNER will then consider the next lowest Bidder for award of the contract.

END OF SECTION

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

To be considered, all bidders must complete and include this form *at the time of the deadline for bids*. Attach additional sheets as necessary to respond to questions.

PROJECT: Mendenhall River Community School Site and Playground Upgrades

As the General Contractor on this project, I intend to subcontract _____% of the total value of this contract.

A. EXPERIENCE

1. Have you ever failed to complete a contract due to insufficient resources?

[] No [] Yes If YES, explain:

2. Describe arrangements you have made to finance this work:

3. Have you had previous construction contracts or subcontracts with the City and Borough of Juneau?
[] Yes [] No

4. Describe your most recent or current contract, its completion date, and scope of work:

5. List below, and/or as an attachment to this questionnaire, other construction projects you have completed, dates of completion, scope of work, and total contract amount for each project completed in the past twelve months.

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

6. Per Alaska Statute 36.90.210, on previously awarded public contracts (including contracts still in progress), have you ever failed to pay a subcontractor <u>or</u> material supplier <u>within eight working</u> <u>days</u> after receiving payment from the Owner (for projects occurring within the last 3 years)?

[] Yes [] No If yes, please attach a detailed explanation for <u>each</u> occurrence.

B. EQUIPMENT

1. Describe below, and/or as an attachment, the equipment you have available and intend to use for this project.

ITEM	QUANTITY	МАКЕ	MODEL	SIZE/CAPACITY	PRESENT MARKET VALUE

- 2. Do you propose to purchase any equipment for use on this project not listed on table B-1?
- [] No [] Yes If YES, describe type, quantity, and approximate cost:

3. Do you propose to rent any equipment for this work not listed on table B-1?[] No [] Yes If YES, describe type and quantity:

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

4. Is your bid based on firm offers for all materials necessary for this project?[] Yes [] No If NO, please explain:

I hereby certify that the above statements are true and complete.

Contractor

Name and Title of Person Signing

Signature

Date

SECTION 00500 - AGREEMENT

THIS AGREEMENT is between <u>THE CITY AND BOROUGH OF JUNEAU</u> (hereinafter called OWNER) and _______ (hereinafter called CONTRACTOR) OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK.

CONTRACTOR shall complete the WORK as specified or as indicated under the Bid Schedule of the OWNERS Contract Documents <u>Contract BE21-240</u>, <u>Mendenhall River Community School Site and</u> <u>Playground upgrades</u>.

The WORK is generally described as follows: mobilization/demobilization, erosion and sediment control, demolition and disposal, clearing and grubbing, unclassified excavation, utilizing or disposing of excavated material, excavation dewatering, placement and compaction of base, subbase and usable excavated material, salvaging and placing salvaged pea gravel, importing and placing new pea gravel, adjusting existing storm and sanitary sewer structures, connecting to existing storm sewer pipes and structures, installing new storm drain pipes and structures, cleaning existing storm drain structures, construction surveying, installing filter cloth, placing topsoil and seeding, installing underdrains, asphalt concrete pavement cutting and patching, installing playground equipment footings and OWNER-provided play equipment, installing "poured-in-place" fall protection surfacing, constructing concrete walks, miscellaneous grading, and site restoration to preconstruction conditions, and miscellaneous related WORK.

The WORK to be paid under this contract shall include the following: Base Bid and Additive Alternate No. 1 as shown in Section 00310 - Bid Schedule.

ARTICLE 2. CONTRACT COMPLETION TIME.

Work Description

Completion Date

Substantial Completion	August 9, 2021
Final Completion	August 15, 2021

ARTICLE 3. DATE OF AGREEMENT

The date of this agreement will be the date of the last signature on page three of this section.

ARTICLE 4. LIQUIDATED DAMAGES.

OWNER and the CONTRACTOR recognize that time is of the essence of this Agreement and that the OWNER will suffer financial loss if the WORK is not completed within the time specified in Article 2 herein, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. They also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual damages suffered by the OWNER if the WORK is not completed on time. Accordingly, instead of requiring any such proof, the OWNER and the CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) the CONTRACTOR shall pay the OWNER **§200** for each Day that expires after the completion time(s) specified in Article 2 herein. The amount of liquidated damages specified above is agreed to be a reasonable estimate based on all facts known as of the date of this Agreement.

ARTICLE 5. CONTRACT PRICE.

OWNER shall pay CONTRACTOR for completion of the WORK in accordance with the Contract Documents **MRCS SITE AND PLAYGROUND**

MRCS SITE AND PLAYGROUN UPGRADES CBJ Contract No. BE21-240

AGREEMENT Page 00500-1

SECTION 00500 - AGREEMENT

in current funds the amount set forth in the Bid Schedule. The CONTRACTOR agrees to accept as full and complete payment for all WORK to be done in this contract for: <u>CBJ Contract BE21-240, Mendenhall River</u> <u>Community School Site and Playground upgrades</u>, those Lump Sum amounts as set forth in the Bid Schedule in the Contract Documents for this Project.

The total amount of this contract shall be ______(\$____), except as adjusted in accordance with the provisions of the Contract Documents.

ARTICLE 6. PAYMENT PROCEDURES.

CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by the ARCHITECT as provided in the General Conditions.

Progress payments will be paid in full in accordance with Article 14 of the General Conditions until ninety (90) percent of the Contract Price has been paid. The remaining ten (10) percent of the Contract Price may be retained, in accordance with applicable Alaska State Statutes, until final inspection, completion, and acceptance of the Project by the OWNER.

ARTICLE 7. CONTRACT DOCUMENTS.

The Contract Documents which comprise the entire Agreement between OWNER and CONTRACTOR concerning the WORK consist of this Agreement (pages 00500-1 to 00500-6, inclusive) and the following sections of the Contract Documents:

- Table of Contents (pages 00030-1 to 00030-2, inclusive).
- Notice Inviting Bids (pages 00030-1 to 00030-2, inclusive).
- ▶ Instructions to Bidders (pages 00100-1 to 00100-8, inclusive).
- ▶ Bid (pages 00300-1 to 00300-2, inclusive).
- ▶ Bid Schedule (pages 00310-1, inclusive).
- Bid Bond (page 00320-1, inclusive) or Bid Security.
- Subcontractor Report (pages 00360-1 to 00360-2, inclusive).
- Contractor Financial Responsibility (pages 00370-1 to 00370-3, inclusive).
- Performance Bond (pages 00610-1 to 00610-2, inclusive).
- Payment Bond (pages 00620-1 to 00620-2, inclusive).
- Insurance Certificate(s).
- ➤ General Conditions (pages 00700-1 to 00700-44, inclusive).
- Supplementary General Conditions (pages 00800-1 to 00800-5, inclusive).
- Alaska Labor Standards, Reporting, and Prevailing Wage Determination (page 00830-1).
- > CBJ Standard Details August 2011 Edition with current Errata Sheets.
- Standard Specifications for Civil Engineering Projects and Subdivision Improvements December 2003 with current Errata Sheets.
- > Technical Specifications as listed in the Table of Contents.
- > Drawings consisting of 11 sheets, as listed in the Table of Contents.
- > Addenda numbers ______ to _____, inclusive.
- Change Orders which may be delivered or issued after the Date of the Agreement and which are not attached hereto.

There are no Contract Documents other than those listed in this Article 7. The Contract Documents may only be amended by Change Order as provided in Paragraph 3.3 of the General Conditions.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

SECTION 00500 - AGREEMENT

ARTICLE 8. MISCELLANEOUS.

Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.

No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents. This Agreement shall be governed by the laws of the State of Alaska. Jurisdiction shall be in the State of Alaska, First Judicial District.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have caused this Agreement to be executed on the date listed below signed by OWNER.

OWNER:	CONTRACTOR:
City and Borough of Juneau	
	(Company Name)
(Signature)	(Signature)
By: <u>Duncan Rorie Watt, City & Borough Manager</u> (Printed Name)	By:(Printed Name, Authority or Title)
Date:	Date:
	(CONTRACTOR Signature Date)
OWNER's address for giving notices:	CONTRACTOR's address for giving notices:
155 South Seward Street	
Juneau, Alaska 99801	
907-586-0800 ext. 4194 907-586-4530 (Telephone) (Fax)	(Telephone) (Fax)
	(E-mail address)
MRCS SITE AND PLAYGROUND	CONTRACTOR License No.

CERTIFICATE (if Corporation)

STATE OF)) SS: COUNTY OF)

I HEREBY CERTIFY that a meeting of the Board of Directors of the

_____a corporation existing under the laws of the State of ______, held on ______, 20____, the following resolution was duly passed and adopted:

"RESOLVED, that ______, as _____ President of the Corporation, be and is hereby authorized to **execute the Agreement** with the CITY AND BOROUGH OF JUNEAU and this corporation and that the execution thereof, attested by the Secretary of the Corporation, and with the Corporate Seal affixed, shall be the official act and deed of this Corporation."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the

corporation this _____ day of _____, 20____.

Secretary

(SEAL)

CERTIFICATE (if Partnership)

STATE OF)) SS: COUNTY OF)

I HEREBY CERTIFY that a meeting of the Partners of the

_____a partnership existing under the laws of the State

of ______, held on ______, 20____, the following resolution was duly passed and adopted:

"RESOLVED, that ______, as _____ of the Partnership, be and is hereby authorized to **execute the Agreement** with the CITY AND BOROUGH OF JUNEAU and this partnership and that the execution thereof, attested by the ______ shall be the official act and deed of this Partnership."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of _____, 20 .

Secretary

(SEAL)

CERTIFICATE (if Joint Venture)

STATE OF)) SS: COUNTY OF)

I HEREBY CERTIFY that a meeting of the Principals of the

_____a joint venture existing under the laws of the State of ______, held on _____, 20___, the following resolution was duly passed and adopted:

"RESOLVED, that ______, as ______ of the Joint Venture, be and is hereby authorized to **execute the Agreement** with the CITY AND BOROUGH OF JUNEAU and this joint venture and that the execution thereof, attested by the ______ shall be the official act and deed of this Joint Venture."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of ______, 20____.

Secretary

(SEAL)

END OF SECTION

SECTION 00610 - PERFORMANCE BOND

(Name of CONTRACTOR)

KNOW ALL PERSONS BY THESE PRESENTS: That we

		(1 turne	
a			
		(Corporation, Partnership, Individual	1)
hereina	after called "Principal" and		
	·	(Surety)	
of	, State of	hereinafter called the "Su	urety", are held and firmly bound
to the	CITY AND BOROUGH of J	JNEAU, ALASKA hereinafter called	l "OWNER", for the penal sum
	(Owner)`	(City and State)	
of		do	ollars (\$) in
	•	the payment of which sum well and true ad successors, jointly and severally, firm	ly to be made, we bind ourselves,

THE CONDITION OF THIS OBLIGATION is such that whereas, the CONTRACTOR has entered into a certain contract with the OWNER, the effective date of which is (CBJ Contracts Office to fill in effective date), a copy of which is hereto attached and made a part hereof for the construction of:

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

NOW, THEREFORE, if the Principal shall truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof, which may be granted by the OWNER, with or without notice to the Surety, and if it shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the OWNER and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

SECTION 00610 - PERFORMANCE BOND

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

IN WITNESS WHEREOF, this instrument is issued in two (2) identical counterparts, each one of which shall be deemed an original.

CONTRACTOR:

By: _____

(Signature)

(Printed Name)

(Company Name)

(Mailing Address)

(City, State, Zip Code)

SURETY:

By:

(Signature of Attorney-in-Fact)

(Printed Name)

(Company Name)

(Mailing Address)

(City, State, Zip Code)

(Affix SURETY'S SEAL)

NOTE: If CONTRACTOR is Partnership, <u>all</u> Partners must execute bond.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

PERFORMANCE BOND Page 00610-2

Date Issued: _____

SECTION 00620 - PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS: That we

	((Corporation, Partnership, Individual)
hereinafter called '	"Principal" and	
	•	(Surety)
of	, State of	hereinafter called the "Surety," are held and
firmly bound to <u>th</u>	e CITY AND BOROUGH of JU (Owner) (City	JNEAU, ALASKA hereinafter called "OWNER," for the and State)
penal sum of		Dollars
(\$) in lawful mone	y of the United States, for the payment of which sum well
and truly to be ma severally, firmly b		rs, executors, administrators and successors, jointly and

THE CONDITION OF THIS OBLIGATION is such that Whereas, the CONTRACTOR has entered into a certain contract with the OWNER, the effective date of which is (CBJ Contracts Office to fill in effective date) ______, a copy of which is hereto attached and made a part hereof for the construction of:

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, Subcontractors, and corporations furnishing materials for, or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said work, and for all labor performed in such WORK, whether by Subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the OWNER and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

(Name of CONTRACTOR)

SECTION 00620 - PAYMENT BOND

Mendenhall River Community School Site and Playground Upgrades CBJ Contract No. BE21-240

IN WITNESS WHEREOF, this instrument is issued in two (2) identical counterparts, each one of which shall be deemed an original.

CONTRACTOR:

By: ____

(Signature)

(Printed Name)

(Company Name)

(Mailing Address)

(City, State, Zip Code)

SURETY:

By:

(Signature of Attorney-in-Fact)

(Printed Name)

(Company Name)

(Mailing Address)

(City, State, Zip Code)

(Affix SURETY'S SEAL)

NOTE: If CONTRACTOR is Partnership, <u>all</u> Partners must execute bond.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240 Date Issued:

SECTION 00700 - GENERAL CONDITIONS

TABLE OF CONTENTS

ARTICLE 1 DEFINITIONS

ARTICLE 2 PRELIMINARY MATTERS

2.1	Delivery of Bonds/Insurance Certificates	00700-9
2.2	Copies of Documents	00700-9
2.3	Commencement of Contract Time; Notice to Proceed	00700-9
2.4	Starting the WORK	
2.5	Pre-construction Conference	
2.6	Finalizing CONTRACTOR Submittals	00700-9

ARTICLE 3 CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.1	Intent
3.2	Order of Precedence of Contract Documents
3.3	Amending and Supplementing Contract Documents
3.4	Reuse of Documents

ARTICLE 4 AVAILABILITY OF LANDS; PHYSICAL CONDITIONS; REFERENCE POINTS

4.1	Availability of Lands	00700-11
4.2	Physical Conditions - Subsurface and Existing Structures	00700-11
4.3	Differing Site Conditions	00700-12
4.4	Physical Conditions - Underground Utilities	00700-12
4.5	Reference Points	00700-13
4.6	Use of the CBJ/State Lemon Creek Gravel Pit	00700-13

ARTICLE 5 BONDS AND INSURANCE

5.1	Performance, Payment and Other Bonds	00700-14
5.2	Insurance	00700-15

ARTICLE 6 CONTRACTOR'S RESPONSIBILITIES

6.1	Supervision and Superintendence	00700-16
6.2	Labor, Materials, and Equipment	00700-17
6.3	Adjusting Progress Schedule	00700-18
6.4	Substitutes or "Or Equal" Items	00700-18
6.5	Concerning Subcontractors, Suppliers and Others	00700-18
6.6	Permits	00700-18
6.7	Patent Fees and Royalties	00700-19
6.8	Laws and Regulations	00700-19

TABLE OF CONTENTS

ARTICLE 6 CONTRACTOR'S RESPONSIBILITIES (Cont'd.)

6.9	Taxes	00700-19
6.10	Use of Premises	00700-19
6.11	Safety and Protection	00700-20
6.12	Shop Drawings and Samples	00700-21
6.13	Continuing the WORK	
6.14	Indemnification	
6.15	CONTRACTOR's Daily Reports	00700-22
6.16	Assignment of Contract	00700-22
6.17	CONTRACTOR's Responsibility for Utility Property and Services	00700-22
6.18	Operating Water System Valves	00700-22
6.19	Contractor's Work Schedule Limitations	00700-23

ARTICLE 7 OTHER WORK

7.1	Related Work at Site	00700-23
7.2	Coordination	00700-23

ARTICLE 8 OWNER'S RESPONSIBILITIES

8.1	Communications	00700-24
8.2	Payments	00700-24
8.3	Lands, Easements, and Surveys	00700-24
8.4	Change Orders	00700-24
8.5	Inspections and Tests	00700-24
8.6	Suspension of WORK	00700-24
8.7	Termination of Agreement	00700-24

ARTICLE 9 ARCHITECT'S STATUS DURING CONSTRUCTION

9.1	OWNER's Representative	00700-24
9.2	Visits to Site	
9.3	Project Representation	00700-24
9.4	Clarifications and Interpretations	00700-24
9.5	Authorized Variations in WORK	00700-25
9.6	Rejecting or Accepting Defective WORK	00700-25
9.7	CONTRACTOR Submittals, Change Orders, and Payments	00700-25
9.8	Decisions on Disputes	00700-25
9.9	Limitation on ARCHITECT's Responsibilities	00700-26

TABLE OF CONTENTS

ARTICLE 10 CHANGES IN THE WORK

10.1	General0	0700-26
10.2	Allowable Quantity Variations0	0700-27

ARTICLE 11 CHANGE OF CONTRACT PRICE

11.1	General	00700-27
11.2	Costs Relating to Weather	00700-28
11.3	Cost of WORK (Based on Time and Materials)	00700-28
	CONTRACTOR's Fee	
11.5	Excluded Costs	00700-31

ARTICLE 12 CHANGE OF CONTRACT TIME

12.1	General	. 00700-32
12.2	Extensions of Time for Delay Due to Weather	. 00700-33

ARTICLE 13 WARRANTY AND GUARANTEE; TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

13.1	Warranty and Guarantee	00700-33
13.2	Access to WORK	00700-33
13.3	Inspections and Tests	00700-33
13.4	OWNER May Stop the WORK	
13.5	Correction or Removal of Defective WORK	
13.6	One Year Correction Period	
13.7	Acceptance of Defective WORK	00700-35

ARTICLE 14 PAYMENTS TO CONTRACTOR AND COMPLETION

14.1	Schedule of Values (Lump Sum Price Breakdown)	00700-35
14.2	Unit Price Bid Schedule	
14.3	Application for Progress Payment	00700-35
14.4	CONTRACTOR's Warranty of Title	
14.5	Review of Applications for Progress Payment	
14.6	Partial Utilization	00700-37
14.7	Substantial Completion	
14.8	Final Application for Payment	
14.9	Final Payment and Acceptance	00700-37
14.10	Release of Retainage and Other Deductions	
14.11	CONTRACTOR's Continuing Obligation	
14.12	Final Payment Terminates Liability of OWNER	00700-38

TABLE OF CONTENTS

ARTICLE 15 SUSPENSION OF WORK AND TERMINATION

15.1	Suspension of WORK by OWNER	00700-39
15.2	Termination of Agreement by OWNER (CONTRACTOR Default)	00700-39
15.3	Termination of Agreement by OWNER (For Convenience)	00700-39
15.4	Termination of Agreement by CONTRACTOR	00700-39

ARTICLE 16 MISCELLANEOUS

16.1	Giving Notice	00700-40
16.2	Rights In and Use of Materials Found on the WORK	00700-40
16.3	Right to Audit	00700-41
16.4	Archaeological or Historical Discoveries	00700-41
16.5	Construction Over or Adjacent to Navigable Waters	00700-41
16.6	Gratuity and Conflict of Interest	00700-41
16.7	Suits of Law Concerning the WORK	00700-41
16.8	Certified Payrolls	00700-42
16.9	Prevailing Wage Rates	00700-42
16.10	Employment Reference	00700-42
16.11	Cost Reduction Incentive	00700-43

ARTICLE 1 DEFINITIONS

Wherever used in these General Conditions or in the Contract Documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof. Where a word is capitalized in the definitions and is found not capitalized in the Contract Documents it has the ordinary dictionary definition.

Addenda - Written or graphic instruments issued prior to the opening of Bids which make additions, deletions, or revisions to the Contract Documents.

Agreement - The written contract between the OWNER and the CONTRACTOR covering the WORK to be performed; other documents are attached to the Agreement and made a part thereof as provided therein.

Application for Payment - The form furnished by the ARCHITECT which is to be used by the CONTRACTOR to request progress or final payment and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

ARCHITECT - The ARCHITECT is the firm or person(s) selected by the City and Borough of Juneau (CBJ) to perform the duties of project inspection and management. CBJ will inform the CONTRACTOR of the identity of the ARCHITECT at or before the Notice to Proceed.

Architect of Record – The individual, partnership, corporation, joint-venture or other legal entity legally responsible for preparation of Design and Construction Documents for the project.

Asbestos - Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

Bid - The offer or proposal of the Bidder submitted on the prescribed form setting forth the price or prices for the WORK.

Bonds - Bid, Performance, and Payment Bonds and other instruments which protect against loss due to inability or refusal of the CONTRACTOR to perform its contract.

CBJ - City and Borough of Juneau

CBJ Project Manager - The authorized representative of the City and Borough of Juneau Engineering Department, as OWNER, who is responsible for administration of the contract.

Change Order - A document recommended by the ARCHITECT, which is signed by the CONTRACTOR and the OWNER and authorizes an addition, deletion, or revision in the WORK, or an adjustment in the Contract Price or the Contract Time, issued on or after the Effective Date of the Agreement.

Contract Documents - The Table of Contents, Notice Inviting Bids, Instructions to Bidders, Bid Forms (including the Bid, Bid Schedule(s), Information Required of Bidder, Bid Bond, and all required certificates and affidavits), Agreement, Performance Bond, Payment Bond, General Conditions, Supplementary General Conditions, Technical Specifications, Drawings, Permits, and all Addenda, Field Orders and Change Orders executed pursuant to the provisions of the Contract Documents.

Contract Price - The total monies payable by the OWNER to the CONTRACTOR under the terms and conditions of the Contract Documents.

Contract Time - The number of successive calendar Days or the specific date stated in the Contract Documents for the completion of the WORK.

CONTRACTOR - The individual, partnership, corporation, joint-venture or other legal entity with whom the OWNER has executed the Agreement.

Day - A calendar day of 24 hours measured from midnight to the next midnight.

Defective WORK - WORK that is unsatisfactory, faulty, or deficient; or that does not conform to the Contract Documents; or that does not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents; or WORK that has been damaged prior to the ARCHITECT's recommendation of final payment.

Drawings - The drawings, plans, maps, profiles, diagrams, and other graphic representations which indicate the character, location, nature, extent, and scope of the WORK and which have been prepared by the Architect of Record and are referred to in the Contract Documents. Shop Drawings are not within the meaning of this paragraph.

Effective Date of the Agreement - The date indicated in the Agreement on which it becomes effective, but if no such date is indicated it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

Field Order - A written order issued by the ARCHITECT which may or may not involve a change in the WORK.

General Requirements - Division 1 of the Technical Specifications.

Hazardous Waste - The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 9603) as amended from time to time.

Holidays - The CBJ legal holidays occur on:

- A. New Year's Day January 1
- B. Martin Luther King's Birthday Third Monday in January
- C. President's Day Third Monday in February
- D. Seward's Day Last Monday in March
- E. Memorial Day Last Monday in May
- F. Independence Day July 4
- G. Labor Day First Monday in September
- H. Alaska Day October 18
- I. Veteran's Day November 11
- J. Thanksgiving Day Fourth Thursday and the following Friday in November
- K. Christmas Day December 25.

If any holiday listed above falls on a Saturday, Saturday and the preceding Friday are both legal holidays. If the holiday should fall on a Sunday, Sunday and the following Monday are both legal holidays.

Inspector - The authorized representative of the ARCHITECT assigned to make detailed inspections for conformance to the Contract Documents. Any reference to the Resident Project Representative in this document shall mean the Inspector.

Laws and Regulations; Laws or Regulations - Any and all applicable laws, rules, regulations, ordinances, codes, and/or orders of any and all governmental bodies, agencies, authorities and courts having jurisdiction.

Mechanic's Lien - A form of security, an interest in real property, which is held to secure the payment of an obligation. When referred to in these Contract Documents, "Mechanic's Lien" or "lien" means "Stop Notice".

Milestone - A principal event specified in the Contract Documents relating to an intermediate completion date of a portion of the work, or a period of time within which the portion of the work should be performed prior to Substantial Completion of all the WORK.

Notice of Intent to Award - The written notice by the OWNER to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the requirements listed therein, within the time specified, the OWNER will enter into an Agreement.

Notice of Award - The written notice by the OWNER to the apparent successful bidder stating that the apparent successful bidder has complied with all conditions for award of the contract.

Notice of Completion - A form signed by the ARCHITECT and the CONTRACTOR recommending to the OWNER that the WORK is Substantially Complete and fixing the date of Substantial Completion. After acceptance of the WORK by the OWNER's governing body, the form is signed by the OWNER. This filing starts the 30 day lien filing period on the WORK.

Notice to Proceed - The written notice issued by the OWNER to the CONTRACTOR authorizing the CONTRACTOR to proceed with the WORK and establishing the date of commencement of the Contract Time.

OWNER - The City and Borough of Juneau (CBJ), acting through its legally designated officials, officers, or employees.

Partial Utilization - Use by the OWNER of a substantially completed part of the WORK for the purpose for which it is intended prior to Substantial Completion of all the WORK.

PCB's - Polychlorinated biphenyls.

Petroleum - Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Wastes and crude oils.

Project - The total construction of which the WORK to be provided under the Contract Documents may be the whole, or a part as indicated elsewhere in the Contract Documents.

Radioactive Material - Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

Shop Drawings - All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for the CONTRACTOR and submitted by the CONTRACTOR, to the ARCHITECT, to illustrate some portion of the WORK.

Specifications - Same definition as for "Technical Specifications" hereinafter.

Stop Notice - A legal remedy for subcontractors and suppliers who contribute to public works, but who are not paid for their work, which secures payment from construction funds possessed by the OWNER. For public property, the Stop Notice remedy is designed to substitute for mechanic's lien rights.

Sub-Consultant - The individual, partnership, corporation, joint-venture or other legal entity having a direct contract with Architect of Record, or with any of its Consultants to furnish services with respect to the Project.

Subcontractor - An individual, partnership, corporation, joint-venture or other legal entity having a direct contract with the CONTRACTOR, or with any of its Subcontractors, for the performance of a part of the WORK at the site.

Substantial Completion - Refers to when the WORK has progressed to the point where, in the opinion of the ARCHITECT as evidenced by Notice of Completion as applicable, it is sufficiently complete, in accordance with the Contract Documents, so that the WORK can be utilized for the purposes for which it is intended; or if no such notice is issued, when final payment is due in accordance with Paragraph 14.8. The terms "substantially complete" and "substantially completed" as applied to any WORK refer to Substantial Completion thereof.

Supplementary General Conditions - The part of the Contract Documents which make additions, deletions, or revisions to these General Conditions.

Supplier - A manufacturer, fabricator, supplier, distributor, material man, or vendor.

Technical Specifications - Divisions 1 through 16 of the Contract Documents consisting of the General Requirements and written technical descriptions of products and execution of the WORK.

Underground Utilities - All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: water, sewage and drainage removal, electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, traffic, or other control systems.

WORK, Work - The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. WORK is the result of performing, or furnishing labor and furnishing and incorporating materials and equipment into the construction, and performing or furnishing services and furnishing documents, all as required by the Contract Documents.

ARTICLE 2 PRELIMINARY MATTERS

- 2.1 DELIVERY OF BONDS/INSURANCE CERTIFICATES. When the CONTRACTOR delivers the signed Agreements to the OWNER, the CONTRACTOR shall also deliver to the OWNER such Bonds and Insurance Policies and Certificates as the CONTRACTOR may be required to furnish in accordance with the Contract Documents.
- 2.2 COPIES OF DOCUMENTS. The OWNER shall furnish to the CONTRACTOR the required number of copies of the Contract Documents specified in the Supplementary General Conditions.
- 2.3 COMMENCEMENT OF CONTRACT TIME; NOTICE TO PROCEED. The Contract Time will start to run on the commencement date stated in the Notice to Proceed. If no date is stated, Contract Time shall commence upon the date of the Notice to Proceed is issued.
- 2.4 STARTING THE WORK
 - A. The CONTRACTOR shall begin to perform the WORK within 10 days after the commencement date stated in the Notice to Proceed, but no WORK shall be done at the site prior to said commencement date.
 - B. Before undertaking each part of the WORK, the CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. The CONTRACTOR shall promptly report in writing to the ARCHITECT any conflict, error, or discrepancy which the CONTRACTOR may discover and shall obtain a written interpretation or clarification from the ARCHITECT before proceeding with any WORK affected thereby.
 - C. The CONTRACTOR shall submit to the ARCHITECT for review those documents called for under Section 01300 CONTRACTOR Submittals in the General Requirements.
- 2.5 PRE-CONSTRUCTION CONFERENCE. The CONTRACTOR is required to attend a Pre-Construction Conference. This conference will be attended by the ARCHITECT and others as appropriate in order to discuss the WORK in accordance with the applicable procedures specified in the General Requirements, Section 01010 - Summary of Work.
- 2.6 FINALIZING CONTRACTOR SUBMITTALS. At least 7 days before submittal of the first Application for Payment a conference attended by the CONTRACTOR, the ARCHITECT and others as appropriate will be held to finalize the initial CONTRACTOR submittals in accordance with the General Requirements. As a minimum the CONTRACTOR's representatives should include it's project manager and schedule expert. The CONTRACTOR should plan on this meeting taking no less than 8 hours. If the submittals are not finalized at the end of the meeting, additional meetings will be held so that the submittals can be finalized prior to the submittal of the first Application for Payment. No Application for Payment will be processed until CONTRACTOR submittals are finalized.

ARTICLE 3 CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.1 INTENT

- A. The Contract Documents comprise the entire agreement between the OWNER and the CONTRACTOR concerning the WORK. The Contract Documents shall be construed as a whole in accordance with Alaska Law.
- B. It is the intent of the Contract Documents to describe the WORK, functionally complete, to be constructed in accordance with the Contract Documents. Any WORK, materials, or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. When words or phrases which have a well-known technical or construction industry or trade meaning are used to describe WORK, materials, or equipment such words or phrases shall be interpreted in accordance with that meaning, unless a definition has been provided in Article 1 of the General Conditions. Reference to standard specifications, manuals, or codes of any technical society, organization, or association, or to the Laws or Regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual, or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of the ARCHITECT, OWNER, the CONTRACTOR, or the Architect of Record or any of their consultants, agents, or employees from those set forth in the Contract Documents.
- C. If, during the performance of the WORK, CONTRACTOR discovers any conflict, error, ambiguity or discrepancy within the Contract Documents or between the Contract Documents and any provision of any such Law or Regulation applicable to the performance of the WORK or of any such standard, specification, manual or code or of any instruction of any Supplier referred to in paragraph 6.5, the CONTRACTOR shall report it to the ARCHITECT in writing at once, and the CONTRACTOR shall not proceed with the WORK affected thereby (except in an emergency as authorized by the ARCHITECT) until a clarification Field Order, or Change Order to the Contract Documents has been issued.

3.2 ORDER OF PRECEDENCE OF CONTRACT DOCUMENTS

- A. In resolving conflicts resulting from, errors, or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:
 - 1. Permits from other agencies as may be required by law, excepting the definition of "Permittee" in these permits.
 - 2. Field Orders
 - 3. Change Orders
 - 4. ARCHITECT's written interpretations and clarifications.
 - 5. Agreement
 - 6. Addenda
 - 7. CONTRACTOR's Bid (Bid Form)
 - 8. Supplementary General Conditions
 - 9. Notice Inviting Bids
 - 10. Instructions to Bidders

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

- 11. General Conditions
- 12. Technical Specifications
- 13 Drawings
- B. With reference to the Drawings the order of precedence is as follows:
 - 1. Figures govern over scaled dimensions
 - 2. Detail drawings govern over general drawings
 - 3. Addenda/Change Order drawings govern over contract Drawings
 - 4. Contract Drawings govern over standard details
- 3.3 AMENDING AND SUPPLEMENTING CONTRACT DOCUMENTS. The Contract Documents may be amended to provide for additions, deletions, and revisions in the WORK or to modify the terms and conditions thereof by a Change Order (pursuant to Article 10 CHANGES IN THE WORK).
- 3.4 REUSE OF DOCUMENTS. Neither the CONTRACTOR, nor any Subcontractor or Supplier, nor any other person or organization performing any of the WORK under a contract with the OWNER shall have or acquire any title to or ownership rights in any of the Drawings, Technical Specifications, or other documents used on the WORK, and they shall not reuse any of them on the extensions of the Project or any other project without written consent of the OWNER.

ARTICLE 4 AVAILABILITY OF LANDS; PHYSICAL CONDITIONS; REFERENCE POINTS

4.1 AVAILABILITY OF LANDS. The OWNER shall furnish, as indicated in the Contract Documents, the lands upon which the WORK is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for the use of the CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by the OWNER, unless otherwise provided in the Contract Documents. Nothing contained in the Contract Documents shall be interpreted as giving the CONTRACTOR exclusive occupancy of the lands or rights-of-way provided. The CONTRACTOR shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment; provided, that the CONTRACTOR shall not enter upon nor use any property not under the control of the OWNER until a written temporary construction easement, lease or other appropriate agreement has been executed by the CONTRACTOR and the property owner, and a copy of said agreement furnished to the ARCHITECT prior to said use; and, neither the OWNER nor the ARCHITECT shall be liable for any claims or damages resulting from the CONTRACTOR's unauthorized trespass or use of any such properties.

4.2 PHYSICAL CONDITIONS - SUBSURFACE AND EXISTING STRUCTURES

A. Explorations and Reports. Reference is made to SGC 4.2 Physical Conditions of the Supplementary General Conditions for identification of those reports of explorations and tests of sub-surface conditions at the site that have been utilized by the Architect of Record in the preparation of the Contract Documents. The CONTRACTOR may rely upon the accuracy of the technical data contained in such reports, however, reports are not to be considered complete or comprehensive and nontechnical data, interpretations, and opinions contained in such reports are not to be relied on by the CONTRACTOR. The CONTRACTOR is responsible for any further explorations or tests that may be

necessary and any interpretation, interpolation, or extrapolation that it makes of any information shown in such reports.

B. Existing Structures. Reference is made to SGC 4.2 Physical Conditions of the Supplementary General Conditions for identification of those drawings of physical conditions in or relating to existing surface and subsurface structures (except Underground Utilities referred to in Paragraph 4.4 herein) which are at or contiguous to the site that have been utilized by the Architect of Record in the preparation of the Contract Documents. The CONTRACTOR may rely upon the accuracy of the technical data contained in such drawings, however, nontechnical data, interpretations, and opinions contained in such drawings are not to be relied on by the CONTRACTOR. The CONTRACTOR is also responsible for any interpretation, interpolation, or extrapolation that it makes of any information shown in such drawings.

4.3 DIFFERING SITE CONDITIONS

- A. The CONTRACTOR shall promptly upon discovery (but in no event later than 14 days thereafter) and before the following conditions are disturbed, notify the ARCHITECT, in writing of any:
 - 1. Material that the CONTRACTOR believes may be material that is hazardous waste, as defined in Article 1 of these General Conditions, or asbestos, PCB's, petroleum or any other substance or material posing a threat to human or to the environment.
 - 2. Subsurface or latent physical conditions at the site differing from those indicated.
 - 3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in WORK of the character provided for in the contract.
- B. The ARCHITECT shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the CONTRACTOR's cost of, or the time required for, performance of any part of the WORK shall issue a Change Order under the procedures described in the contract.
- C. In the event that a dispute arises between the ARCHITECT and the CONTRACTOR whether the conditions materially differ, or involved hazardous waste or other materials listed above, or cause a decrease or increase in the CONTRACTOR's cost of, or time required for, performance of any part of the WORK, the CONTRACTOR shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all WORK to be performed under the contract. The CONTRACTOR shall retain any and all rights provided either by contract or by Law which pertain to the resolution of disputes and protests between the contracting parties.

4.4 PHYSICAL CONDITIONS - UNDERGROUND UTILITIES

A. Indicated. The information and data indicated in the Contract Documents with respect to existing Underground Utilities at or contiguous to the site are based on information and data furnished to the OWNER or the Architect of Record by the owners of such Underground Utilities or by others. Unless it is expressly provided in the Supplementary General Conditions and/or Section 01530 - Protection and Restoration of Existing Facilities, the OWNER and the Architect of Record shall not be responsible for the accuracy or completeness of any such information or data, and the CONTRACTOR shall have full responsibility for reviewing and checking all such information and data, for locating all Underground Utilities indicated in the Contract Documents, for coordination of

the WORK with the owners of such Underground Utilities during construction, for the safety and protection thereof and repairing any damage thereto resulting from the WORK, the cost of which will be considered as having been included in the Contract Price.

B. Not Indicated. If an Underground Utility is uncovered or revealed at or contiguous to the site which was not indicated in the Contract Documents and which the CONTRACTOR could not reasonably have been expected to be aware of, the CONTRACTOR shall identify the owner of such Underground Utility and give written notice thereof to that owner and shall notify the ARCHITECT in accordance with the requirements of the Supplementary General Conditions and Section 01530 - Protection and Restoration of Existing Facilities of the General Requirements.

4.5 REFERENCE POINTS

- A. The ARCHITECT will provide one bench mark, near or on the site of the WORK, and will provide two points near or on the site to establish a base line for use by the CONTRACTOR for alignment control. Unless otherwise specified in the General Requirements, the CONTRACTOR shall furnish all other lines, grades, and bench marks required for proper execution of the WORK.
- B. The CONTRACTOR shall preserve all bench marks, stakes, and other survey marks, and in case of their removal or destruction by its own employees or by its subcontractor's employees, the CONTRACTOR shall be responsible for the accurate replacement of such reference points by personnel qualified under the Alaska Statute governing the licensing of architects, engineers, and land surveyors.

4.6 USE OF THE CBJ/STATE LEMON CREEK GRAVEL PIT

- A. On City and Borough of Juneau (CBJ) construction projects, the CBJ may make unclassified material available to CONTRACTORs, from the CBJ/State Lemon Creek gravel pit, at a rate less than charged other customers. CONTRACTORs are not required to use material from the CBJ/State pit and the CBJ makes no guarantee as to the quantity or quality of the available material. For this Project, contact Alec Venechuk, CBJ Material Source Manager, at (907) 586-0874 for the current material rates.
- B. CONTRACTORs proposing to use gravel from the CBJ/State pit are required to be in good standing for all amounts owed to the CBJ, for previous gravel operations, prior to submitting a mining plan for approval. CONTRACTORs using the pit must comply with Allowable Use Permit USE 2008-00061. Failure to meet these requirements, if so subject, shall be sufficient reason to deny use of the CBJ/State pit as a gravel source. To determine if your company is subject to these requirements, contact the CBJ Engineering Department, Gravel Pit Management, at (907) 586-0874.
- C. CONTRACTORs deciding to use material from the CBJ/State pit shall provide an Individual Mining Plan prepared by a professional engineer registered in the State of Alaska. The Individual Mining Plan must be reviewed and approved by the CBJ, prior to commencing operations within the pit. CONTRACTORs shall also secure a Performance Bond to ensure compliance with contract provisions, including any Individual Mining Plan stipulations. The bond shall remain in full force and effect until a release is obtained from the CBJ.
- D. If CONTRACTOR operations for a Project do not exceed 500 tons of material, the CONTRACTOR will not be required to provide an Individual Mining Plan prepared by an engineer, however, the CONTRACTOR must submit an Individual Mining Plan that is in compliance with Allowable Use

Permit USE 2008-00061 for gravel extraction within the CBJ/State pit. The CONTRACTOR must contact the CBJ Engineering Department for conditions for the extraction.

- E. CONTRACTORs using the CBJ material may do primary dry separation (screening) of materials within the pit. Crushing and washing of material will not be allowed. CONTRACTORs shall account for placement of materials removed from the pit. The CBJ may require CONTRACTORs to cross-check weight tickets, submit to an audit, or participate in other measures required by the CBJ to ensure accountability. Unprocessed overburden removed from the pit will not be weighed. All other material mined will be weighed at the CBJ scale. CONTRACTORs will be responsible for loading and/or screening their own material. If asphalt pavement is removed as part of the WORK, CONTRACTORs shall dispose of the material at a to-be-specified location within the pit area, as directed by the CBJ Gravel Pit Manager, (907) 586-0874.
- F. The gravel pit overhead charge shall be paid to the CBJ by the CONTRACTOR within 60 days after removal of all materials from the pit and prior to requesting and/or receiving final payment. Upon completion of each excavation CONTRACTORs shall notify the CBJ, in writing, in sufficient time to perform a field-compliance examination prior to vacating the pit. Any significant deviation from the stipulations of the Individual Mining Plan identified during the field inspection shall be corrected by the CONTRACTOR prior to release of the bond. A signed release from CBJ will be required prior to releasing the CONTRACTOR's bond.
- G. If asphalt pavement is removed as part of this WORK, the CONTRACTOR shall dispose of the material at the location designated as the Asphalt Storage Facility, or as directed by the ARCHITECT.
- H. The CBJ/State Pit is a seasonal operation. The hours of operation are from 7:00 a.m. to 6:00 p.m., Monday through Friday, from April 1 through October 15 of the year. CONTRACTORs may obtain gravel on weekends, or during the off-season, by applying for a separate agreement with the City and Borough of Juneau Engineering Department. The CONTRACTOR will be responsible for any additional costs incurred during weekend or off-season operations at the gravel pit.
- I. All CONTRACTORs/equipment operators using the CBJ/State Pit shall be in compliance with Federal Mine Safety and Health Administration regulations for quarry and gravel operations.

ARTICLE 5 BONDS AND INSURANCE

5.1 PERFORMANCE, PAYMENT, AND OTHER BONDS

A. The CONTRACTOR shall furnish Performance and Payment Bonds, each in the amount set forth in the Supplementary General Conditions as security for the faithful performance and payment of all the CONTRACTOR's obligations under the Contract Documents. These bonds shall remain in effect at least until one year after the date of Substantial Completion except as otherwise provided by Law or Regulation or by the Contract Documents. The CONTRACTOR shall also furnish such other Bonds as are required by the Supplementary General Conditions. All Bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, U.S. Treasury Department. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.

- B. If the surety on any Bond furnished by the CONTRACTOR is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the WORK is located, the CONTRACTOR shall within 7 days thereafter substitute another Bond and Surety, which must be acceptable to the OWNER.
- C. All Bonds required by the Contract Documents to be purchased and maintained by CONTRACTOR shall be obtained from surety companies that are duly licensed or authorized in the State of Alaska to issue Bonds for the limits so required. Such surety companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions.

5.2 INSURANCE

- A. The CONTRACTOR shall purchase and maintain the insurance required under this paragraph. Such insurance shall include the specific coverages set out herein and be written for not less than the limits of liability and coverages provided in the Supplementary General Conditions, or required by law, whichever are greater. All insurance shall be maintained continuously during the life of the Agreement up to the date of Final Completion and at all times thereafter when the CONTRACTOR may be correcting, removing, or replacing Defective WORK in accordance with Paragraph 13.6, but the CONTRACTOR's liabilities under this Agreement shall not be deemed limited in any way to the insurance coverage required.
- B. All insurance required by the Contract Documents to be purchased and maintained by the CONTRACTOR shall be obtained from insurance companies that are duly licensed or authorized in the State of Alaska to issue insurance policies for the limits and coverages so required. Such insurance companies shall have a current Best's Rating of at least an "A" (Excellent) general policy holder's rating and a Class VII financial size category and shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions.
- C. The CONTRACTOR shall furnish the OWNER with certificates showing the type, amount, class of operations covered, effective dates and dates of expiration of policies. All of the policies of insurance so required to be purchased and maintained (or the certificates or other evidence thereof) shall contain a provision or endorsement that the coverage afforded will not be cancelled, reduced in coverage, or renewal refused until at least 30 days' prior written notice has been given to the OWNER by certified mail. All such insurance required herein (except for Workers' Compensation and Employer's Liability) shall name the OWNER, its Consultants and subconsultants and their officers, directors, agents, and employees as "additional insureds" under the policies. The CONTRACTOR shall purchase and maintain the following insurance:
 - 1. Workers' Compensation and Employer's Liability. This insurance shall protect the CONTRACTOR against all claims under applicable state workers' compensation laws. The CONTRACTOR shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a Workers' Compensation law. This policy shall include an "all states" endorsement. The CONTRACTOR shall require each Subcontractor similarly to provide Workers' Compensation Insurance for all of the latter's employees to be engaged in such work unless such employees are covered by the protection afforded by the CONTRACTOR's Workers' Compensation Insurance. In case any class of employees is not protected, under the Workers' Compensation Statute, the

CONTRACTOR shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of its employees as are not otherwise protected.

- 2. Commercial General Liability. This insurance shall be written in comprehensive form and shall protect the CONTRACTOR against all claims arising from injuries to persons other than its employees or damage to property of the OWNER or others arising out of any act or omission of the CONTRACTOR or its agents, employees, or Subcontractors. The policy shall contain no exclusions for any operations within the scope of this contract.
- 3. Comprehensive Automobile Liability. This insurance shall be written in comprehensive form and shall protect the CONTRACTOR against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired. Coverage for hired motor vehicles should include endorsement covering liability assumed under this contract.
- 4. Subcontractor's Public Liability and Property Damage Insurance and Vehicle Liability Insurance. The CONTRACTOR shall either require each of its Subcontractors to procure and to maintain Subcontractor's Commercial General Liability and Property Damage Insurance and Vehicle Liability Insurance of the type and in the amounts specified in the Supplementary General Conditions or insure the activities of its subcontractors in the CONTRACTOR's own policy, in like amount.
- 5. Builder's Risk. This insurance shall be of the "all risks" type, shall be written in completed value form, and shall protect the CONTRACTOR, the OWNER, and the ARCHITECT, against risks of damage to buildings, structures, and materials and equipment. The amount of such insurance shall be not less than the insurable value of the WORK at completion. Builder's risk insurance shall provide for losses to be payable to the CONTRACTOR and the OWNER, as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the CONTRACTOR, the OWNER, and the ARCHITECT. The Builder's Risk policy shall insure against all risks of direct physical loss or damage to property from any external cause including flood and earthquake. Allowable exclusions, if any, shall be as specified in the Supplementary General Conditions.

ARTICLE 6 CONTRACTOR'S RESPONSIBILITIES

6.1 SUPERVISION AND SUPERINTENDENCE

- A. The CONTRACTOR shall supervise, inspect, and direct the WORK competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the WORK in accordance with the Contract Documents. The CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction and safety precautions and programs incidental thereto. The CONTRACTOR shall be responsible to see that the completed WORK complies accurately with the Contract Documents.
- B. The CONTRACTOR shall designate in writing and keep on the work site at all times during its progress a technically qualified, English-speaking superintendent, who is an employee of the CONTRACTOR and who shall not be replaced without written notice to the OWNER and the ARCHITECT. The superintendent will be the CONTRACTOR's representative at the site and shall

have authority to act on behalf of the CONTRACTOR. All communications given to the superintendent shall be as binding as if given to the CONTRACTOR. The CONTRACTOR shall issue all its communications to the OWNER through the ARCHITECT and the ARCHITECT only.

C. The CONTRACTOR's superintendent shall be present at the site of the WORK at all times while WORK is in progress. Failure to observe this requirement shall be considered suspension of the WORK by the CONTRACTOR until such time as such superintendent is again present at the site.

6.2 LABOR, MATERIALS, AND EQUIPMENT

- A. The CONTRACTOR shall provide competent, suitably qualified personnel to survey and lay out the WORK and perform construction as required by the Contract Documents. The CONTRACTOR shall furnish, erect, maintain, and remove the construction plant and any temporary works as may be required. The CONTRACTOR shall at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the WORK or property at the site or adjacent thereto, and except as otherwise indicated in the Contract Documents, all WORK at the site shall be performed during regular working hours, and the CONTRACTOR will not permit overtime WORK or the performance of WORK on Saturday, Sunday, or any legal holiday without the OWNER's written consent. The CONTRACTOR shall apply for this consent through the ARCHITECT.
- B. Except as otherwise provided in this Paragraph, the CONTRACTOR shall receive no additional compensation for overtime WORK, i.e., work in excess of 8 hours in any one calendar day or 40 hours in any one calendar week, even though such overtime WORK may be required under emergency conditions and may be ordered by the ARCHITECT in writing. Additional compensation will be paid the CONTRACTOR for overtime WORK only in the event extra WORK is ordered by the ARCHITECT and the Change Order specifically authorizes the use of overtime WORK and then only to such extent as overtime wages are regularly being paid by the CONTRACTOR for overtime WORK of a similar nature in the same locality.
- C. All costs of inspection and testing performed during overtime WORK by the CONTRACTOR which is allowed solely for the convenience of the CONTRACTOR shall be borne by the CONTRACTOR. The ARCHITECT shall have the authority to deduct the cost of all such inspection and testing from any partial payments otherwise due to the CONTRACTOR.
- D. Unless otherwise specified in the Contract Documents, the CONTRACTOR shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up, and completion of the WORK.
- E. All materials and equipment to be incorporated into the WORK shall be of good quality and new, except as otherwise provided in the Contract Documents. All warranties and guarantees specifically called for by the Specifications shall expressly run to the benefit of the OWNER. If required by the ARCHITECT, the CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned in accordance with the instructions of the applicable Supplier except as otherwise provided in the Contract Documents; but no provisions of any such instructions will be effective to assign to the ARCHITECT, or any of the Architect's of Record consultants, agents, or employees, any duty or authority to supervise or direct the

furnishing or performance of the WORK or any duty or authority to undertake responsibility contrary to the provisions of Paragraphs 9.9C and 9.9D.

- F. The CONTRACTOR shall at all times employ sufficient labor and equipment for prosecuting the several classes of WORK to full completion in the manner and time set forth in and required by these specifications. All workers shall have sufficient skill and experience to properly perform the WORK assigned to them. Workers engaged in special WORK, or skilled WORK, shall have sufficient experience in such WORK and in the operation of the equipment required to perform all WORK, properly and satisfactorily.
- G. Any person employed by the CONTRACTOR or by any SUBCONTRACTOR who, in the opinion of the ARCHITECT, does not perform the WORK in a proper and skillful manner, or is intemperate or disorderly shall, at the written request of the ARCHITECT, be removed forthwith by the CONTRACTOR or Subcontractor employing such person, and shall not be employed again in any portion of the WORK without the approval of the ARCHITECT. Should the CONTRACTOR fail to remove such person or persons as required above, or fail to furnish suitable and sufficient personnel for the proper prosecution of the WORK, the ARCHITECT may suspend the WORK by written notice until such orders are complied with.
- 6.3 ADJUSTING PROGRESS SCHEDULE. The CONTRACTOR shall submit monthly updates of the progress schedule to the ARCHITECT for acceptance in accordance with the provisions in Section 01300 CONTRACTOR Submittals in the General Requirements.
- 6.4 SUBSTITUTES OR "OR-EQUAL" ITEMS. The CONTRACTOR shall submit proposed substitutes or "or-equal" items in accordance with the provisions in Section 01300 CONTRACTOR Submittals in the General Requirements.
- 6.5 CONCERNING SUBCONTRACTORS, SUPPLIERS, AND OTHERS. The CONTRACTOR shall be responsible to the OWNER and the ARCHITECT of Record for the acts and omissions of its subcontractors and their employees to the same extent as CONTRACTOR is responsible for the acts and omissions of its own employees. Nothing contained in this Paragraph shall create any contractual relationship between any subcontractor and the OWNER or the ARCHTIECT nor relieve the CONTRACTOR of any liability or obligation under the contract.

6.6 PERMITS

- A. Unless otherwise provided in the Supplementary General Conditions, the CONTRACTOR shall obtain and pay for all construction permits and licenses from the agencies having jurisdiction, including the furnishing of insurance and Bonds if required by such agencies. The enforcement of such requirements under this contract shall not be made the basis for claims for additional compensation. The OWNER shall assist the CONTRACTOR, when necessary, in obtaining such permits and licenses. The CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the WORK, which are applicable at the time of opening of Bids. The CONTRACTOR shall pay all charges of utility owners for connections to the WORK.
- B. These Contract Documents may require that the WORK be performed within the conditions and/or requirements of local, state and/or federal permits. These permits may be bound within the Contract Documents, included within the Contract Documents by reference, or included as part of the WORK, as designated in this Section. The CONTRACTOR is responsible for completing the WORK required

for compliance with all permit requirements; this WORK is incidental to other items in the Contract Documents. Any reference to the PERMITTEE in the permits shall mean the CONTRACTOR. If any permits were acquired by the OWNER, this action was done to expedite the start of construction. If the CONTRACTOR does not complete the WORK within the specified permit window, the CONTRACTOR shall be responsible for the permit extension, and for completing any additional requirements placed upon the permit.

- 6.7 PATENT FEES AND ROYALTIES. The CONTRACTOR shall pay all license fees and royalties and assume all costs incident to the use in the performance of the WORK or the incorporation in the WORK of any invention, design, process, product, software or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the WORK and if to the actual knowledge of the OWNER or the Architect of Record its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by the OWNER in the Contract Documents. The CONTRACTOR shall indemnify, defend and hold harmless the OWNER and the Architect of Record and anyone directly or indirectly employed by either of them from and against all claims, damages, losses, and expenses (including attorneys' fees and court costs) arising out of any infringement of patent rights or copyrights incident to the use in the performance of the WORK or resulting from the incorporation in the WORK of any invention, design, process, product, or device not specified in the Contract Documents, and shall defend all such claims in connection with any alleged infringement of such rights.
- 6.8 LAWS AND REGULATIONS. The CONTRACTOR shall observe and comply with all federal, state, and local laws, ordinances, codes, orders, and regulations which in any manner affect those engaged or employed on the WORK, the materials used in the WORK, or the conduct of the WORK. If any discrepancy or inconsistency should be discovered in this contract in relation to any such law, ordinance, code, order, or regulation, the CONTRACTOR shall report the same in writing to the ARCHITECT. The CONTRACTOR shall indemnify, defend, and hold harmless the OWNER, the Architect of Record, and their officers, agents, and employees against all claims or liability arising from violation of any such law, ordinance, code, order, or regulation, whether by CONTRACTOR or by its employees, Subcontractors, or third parties. Any particular law or regulation specified or referred to elsewhere in the Contract Documents shall not in any way limit the obligation of the CONTRACTOR to comply with all other provisions of federal, state, and local laws and regulations.
- 6.9 TAXES. The CONTRACTOR shall pay all sales, consumer, use, and other similar taxes required to be paid by the CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the WORK.
- 6.10 USE OF PREMISES. The CONTRACTOR shall confine construction equipment, the storage of materials and equipment, and the operations of workers to (1) the Project site, (2) the land and areas identified in and permitted by the Contract Documents, and (3) the other land and areas permitted by Laws and Regulations, rights-of-way, permits, leases and easements. The CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the WORK. Should any claim be made against the OWNER or the Architect of Record by any such owner or occupant because of the performance of the WORK, the CONTRACTOR shall promptly attempt to settle with such other party by agreement or otherwise resolve the claim through litigation. The CONTRACTOR shall, to the fullest extent permitted by Laws and Regulations, indemnify, defend, and hold the OWNER and the Architect of Record harmless from and against all claims, damages, losses, and

expenses (including, but not limited to, fees of Architect's of Records attorneys, and other professionals and court costs) arising directly, indirectly, or consequentially out of any action, legal or equitable, brought by any such owner or occupant against the OWNER, the Architect of Record, their consultants, sub-consultants, and the officers, directors, employees and agents of each and any of them to the extent caused by or based upon the CONTRACTOR's performance of the WORK.

6.11 SAFETY AND PROTECTION

- A. The CONTRACTOR shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the WORK. The CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:
 - 1. all employees on the WORK and other persons and organizations who may be affected thereby;
 - 2. all the WORK and materials and equipment to be incorporated therein, whether in storage on or off the site; and
 - 3. other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.
- B. The CONTRACTOR shall comply with all applicable Laws and Regulations whether referred to herein or not) of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss and shall erect and maintain all necessary safeguards for such safety and protection. The CONTRACTOR shall notify owners of adjacent property and utilities when prosecution of the WORK may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.
- C. The CONTRACTOR shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and program.
- D. Materials that contain hazardous substances or mixtures may be required on the WORK. A Material Safety Data Sheet (MSDS) shall be requested by the CONTRACTOR from the manufacturer of any hazardous product used.
- E. Material usage shall be accomplished with strict adherence to all safety requirements and all manufacturer's warnings and application instructions listed on the Material Safety Data Sheet and on the product container label.
- F. The CONTRACTOR shall be responsible for coordinating communications on any exchange of Material Safety Data Sheets or other hazardous material information that is required to be made available to, or exchanged between, or among, employers at the site in accordance with Laws or Regulations.
- G. The CONTRACTOR shall notify the ARCHITECT if it considers a specified product or its intended usage to be unsafe. This notification must be given to the ARCHITECT prior to the product being ordered, or if provided by some other party, prior to the product being incorporated in the WORK.

6.12 SHOP DRAWINGS AND SAMPLES

- A. After checking and verifying all field measurements and after complying with applicable procedures specified in the General Requirements, the CONTRACTOR shall submit to the ARCHITECT for review, all Shop Drawings in accordance with Section 01300 CONTRACTOR Submittals in the General Requirements.
- B. The CONTRACTOR shall also submit to the ARCHITECT for review all samples in accordance with Section 01300 CONTRACTOR Submittals in the General Requirements.
- C. Before submittal of each Shop Drawing or sample, the CONTRACTOR shall have determined and verified all quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar data with respect thereto and reviewed or coordinated each Shop Drawing or sample with other Shop Drawings and samples and with the requirements of the WORK and the Contract Documents.
- 6.13 CONTINUING THE WORK. The CONTRACTOR shall carry on the WORK and adhere to the progress schedule during all disputes or disagreements with the OWNER. No WORK shall be delayed or postponed pending resolution of any disputes or disagreements, except as the CONTRACTOR and the OWNER may otherwise agree in writing.

6.14 INDEMNIFICATION

- A. To the fullest extent permitted by Laws and Regulations, the CONTRACTOR shall indemnify, defend, and hold harmless the OWNER, the Architect of Record, their consultants, sub-consultants and the officers, directors, employees, and agents of each and any of them, against and from all claims and liability arising under, by reason of or incidentally to the contract or any performance of the WORK, but not from the sole negligence or willful misconduct of the OWNER, and the Architect of Record. Such indemnification by the CONTRACTOR shall include but not be limited to the following:
 - 1. Liability or claims resulting directly or indirectly from the negligence or carelessness of the CONTRACTOR, its employees, or agents in the performance of the WORK, or in guarding or maintaining the same, or from any improper materials, implements, or appliances used in its construction, or by or on account of any act or omission of the CONTRACTOR, its employees, agents, or third parties;
 - 2. Liability or claims arising directly or indirectly from bodily injury, occupational sickness or disease, or death of the CONTRACTOR's or Subcontractor's own employees engaged in the WORK resulting in actions brought by or on behalf of such employees against the OWNER, or the Architect of Record;
 - 3. Liability or claims arising directly or indirectly from or based on the violation of any law, ordinance, regulation, order, or decree, whether by the CONTRACTOR, its employees, or agents;
 - 4. Liability or claims arising directly or indirectly from the use or manufacture by the CONTRACTOR, its employees, or agents in the performance of this contract of any copyrighted or non-copyrighted composition, secret process, patented or non-patented invention, computer software, article, or appliance, unless otherwise specifically stipulated in this contract.

- 5. Liability or claims arising directly or indirectly from the breach of any warranties, whether express or implied, made to the ARCHITECT, OWNER or any other parties by the CONTRACTOR, its employees, or agents;
- 6. Liabilities or claims arising directly or indirectly from the willful or criminal misconduct of the CONTRACTOR, its employees, or agents; and,
- 7. Liabilities or claims arising directly or indirectly from any breach of the obligations assumed herein by the CONTRACTOR.
- B. The CONTRACTOR shall reimburse the OWNER and the Architect of Record for all costs and expenses, (including but not limited to fees and charges of Architects of Record, attorneys, and other professionals and court costs including all costs of appeals) incurred by the OWNER, and the Architect of Record in enforcing the provisions of this Paragraph 6.14.
- C. The indemnification obligation under this Paragraph 6.14 shall not be limited in any way by any limitation of the amount or type of damages, compensation, or benefits payable by or for the CONTRACTOR or any such Subcontractor or other person or organization under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- 6.15 CONTRACTOR'S DAILY REPORTS. The CONTRACTOR shall complete a daily report indicating total manpower for each construction trade, major equipment on site, each Subcontractor's manpower, weather conditions, etc., involved in the performance of the WORK. The daily report shall be completed on forms provided by the ARCHITECT and shall be submitted to the ARCHITECT at the conclusion of each WORK day. The report should comment on the daily progress and status of the WORK within each major component of the WORK. These components will be decided by the ARCHITECT. The CONTRACTOR shall record the name, affiliation, time of arrival and departure, and reason for visit for all visitors to the location of the WORK.
- 6.16 ASSIGNMENT OF CONTRACT. The CONTRACTOR shall not assign, sublet, sell, transfer, or otherwise dispose of the contract or any portion thereof, or its right, title, or interest therein, or obligations thereunder, without the written consent of the OWNER except as imposed by law. If the CONTRACTOR violates this provision, the contract may be terminated at the option of the OWNER. In such event, the OWNER shall be relieved of all liability and obligations to the CONTRACTOR and to its assignee or transferee, growing out of such termination.
- 6.17 CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES. It is understood that any turn-on, or turn-off line locates and any other WORK or assistance necessary by the CBJ Water Utilities Division, will be at the CONTRACTOR's expense unless otherwise stated in the bid documents. All cost must be agreed to prior to any related actions, and will be considered incidental to the Project cost. Billing to the CONTRACTOR will be direct from the CBJ Water Utilities Division.

6.18 OPERATING WATER SYSTEM VALVES

A. The CONTRACTOR shall submit a written request, to the ARCHITECT, for approval to operate any valve on any in-service section of the CBJ water system. The request must be submitted at least 24-hours prior to operating any valves. The CBJ Water Utilities Division reserves the right to approve or deny the request. The request shall specifically identify each valve to be operated, the time of operation, and the operation to be performed. The CONTRACTOR shall obtain the written approval of the ARCHITECT for any scheduled operation before operating any valve.

- B. The CONTRACTOR shall be responsible for all damages, both direct and consequential, to the OWNER or any other party, caused by unauthorized operation of any valve of the CBJ water system.
- 6.19 CONTRACTOR'S WORK SCHEDULE LIMITATIONS. Construction of Buildings and Projects. It is unlawful to operate any pile driver, power shovel, pneumatic hammer, derrick, power hoist, or similar heavy construction equipment before 7:00 a.m. or after 10:00 p.m., Monday through Friday, or before 9:00 a.m. or after 10:00 p.m., Saturday and Sunday, unless a permit shall first be obtained from the City and Borough Building Official. Such permit shall be issued by the Building Official only upon a determination that such operation during hours not otherwise permitted hereunder is necessary and will not result in unreasonable disturbance to surrounding residents.

ARTICLE 7 OTHER WORK

7.1 RELATED WORK AT SITE

- A. The OWNER may perform other work related to the Project at the site by the OWNER's own forces, have other work performed by utility owners, or let other direct contracts therefor which may contain General Conditions similar to these. If the fact that such other work is to be performed was not noted in the Contract Documents, written notice thereof will be given to the CONTRACTOR prior to starting any such other work.
- B. The CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (or the OWNER, if the OWNER is performing the additional work with the OWNER's employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work, and shall properly connect and coordinate with their WORK. The CONTRACTOR shall do all cutting, fitting, and patching of the WORK that may be required to make its several parts come together properly and integrate with such other work. The CONTRACTOR shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of the ARCHITECT and the others whose work will be affected.
- C. If the proper execution or results of any part of the CONTRACTOR's WORK depends upon the work of any such other contractor or utility owner (or OWNER), the CONTRACTOR shall inspect and report to the ARCHITECT in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for such proper execution and results. The CONTRACTOR's failure to report such delays, defects, or deficiencies will constitute an acceptance of the other work as fit and proper for integration with the CONTRACTOR's WORK except for latent or nonapparent defects and deficiencies in the other work.
- 7.2 COORDINATION. If the OWNER contracts with others for the performance of other work on the Project at the site, the person or organization who will have authority and responsibility for coordination of the activities among the various prime contractors will be identified in the Supplementary General Conditions, and the specific matters to be covered by such authority and responsibility will be itemized and the extent of such authority and responsibilities will be provided in the Supplementary General Conditions.

ARTICLE 8 OWNER'S RESPONSIBILITIES

8.1 COMMUNICATIONS

- A. The OWNER shall issue all its communications to the CONTRACTOR through the ARCHITECT.
- B. The CONTRACTOR shall issue all its communications to the OWNER through the ARCHITECT.
- 8.2 PAYMENTS. The OWNER shall make payments to the CONTRACTOR as provided in Paragraphs 14.5, 14.8, 14.9 and 14.10.
- 8.3 LANDS, EASEMENTS, AND SURVEYS. The OWNER's duties in respect of providing lands and easements and providing surveys to establish reference points are set forth in Paragraphs 4.1 and 4.5.
- 8.4 CHANGE ORDERS. The OWNER shall execute Change Orders as indicated in Paragraph 10.1F.
- 8.5 INSPECTIONS AND TESTS. The OWNER's responsibility in respect of inspections, tests, and approvals is set forth in Paragraph 13.3.
- 8.6 SUSPENSION OF WORK. In connection with the OWNER's right to stop WORK or suspend WORK, see Paragraphs 13.4 and 15.1.
- 8.7 TERMINATION OF AGREEMENT. Paragraphs 15.2 and 15.3 deal with the OWNER's right to terminate services of the CONTRACTOR.

ARTICLE 9 ARCHITECT'S STATUS DURING CONSTRUCTION

- 9.1 OWNER'S REPRESENTATIVE. The ARCHITECT will be the OWNER's representative during the construction period. The duties and responsibilities and the limitations of authority of the ARCHITECT as the OWNER's representative during construction are set forth in the Contract Documents.
- 9.2 VISITS TO SITE. The ARCHITECT will make visits to the site during construction to observe the progress and quality of the WORK and to determine, in general, if the WORK is proceeding in accordance with the Contract Documents. Exhaustive or continuous on-site inspections to check the quality or quantity of the WORK will not be required of the ARCHITECT. The ARCHITECT will not, during such visits, or as a result of such observations of the CONTRACTOR's WORK in progress, supervise, direct, or have control over the CONTRACTOR's WORK.
- 9.3 PROJECT REPRESENTATION. The ARCHITECT may furnish an Inspector to assist in observing the performance of the WORK. The duties, responsibilities, and limitations of authority of any such Inspector and assistants will be as provided in the Supplementary General Conditions.
- 9.4 CLARIFICATIONS AND INTERPRETATIONS. The ARCHITECT will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents (in the form of Drawings or otherwise) as the ARCHITECT may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents.

- 9.5 AUTHORIZED VARIATIONS IN WORK. The ARCHITECT may authorize variations in the WORK from the requirements of the Contract Documents. These may be accomplished by a Field Order and will require the CONTRACTOR to perform the WORK involved in a manner that minimizes the impact to the WORK and the contract completion date. If the CONTRACTOR believes that a Field Order justifies an increase in the Contract Price or an extension of the Contract Time, the CONTRACTOR may make a claim therefor as provided in Article 11 or 12.
- 9.6 REJECTING OR ACCEPTING DEFECTIVE WORK. The ARCHITECT will have authority to reject or accept WORK which the ARCHITECT believes to be defective and will also have authority to require special inspection or testing of the WORK as provided in Paragraph 13.3G, whether or not the WORK is fabricated, installed, or completed.

9.7 CONTRACTOR SUBMITTALS, CHANGE ORDERS, AND PAYMENTS

- A. In accordance with the procedures set forth in the General Requirements, the ARCHITECT will review all CONTRACTOR submittals, including Shop Drawings, samples, substitutes, or "or equal" items, etc., in order to determine if the items covered by the submittals will, after installation or incorporation in the WORK, conform to the requirements of the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. The ARCHITECT's review will not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions or programs incident thereto.
- B. In connection with the ARCHITECT's responsibilities as to Change Orders, see Articles 10, 11, and 12.
- C. In connection with the ARCHITECT's responsibilities in respect of Applications for Payment, see Article 14.

9.8 DECISIONS ON DISPUTES

- A. The ARCHITECT will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the WORK thereunder. Claims, disputes, and other matters relating to the acceptability of the WORK; the interpretation of the requirements of the Contract Documents pertaining to the performance of the WORK; and those claims under Articles 11 and 12 in respect to changes in the Contract Price or Contract Time will be referred initially to the ARCHITECT in writing with a request for formal decision in accordance with this paragraph, which the ARCHITECT will render in writing within 30 days of receipt of the request. Written notice of each such claim, dispute, and other matter will be delivered by the CONTRACTOR to the ARCHITECT promptly (but in no event later than 30 days) after the occurrence of the event giving rise thereto. Written supporting data will be submitted to the ARCHITECT within 60 days after such occurrence unless the ARCHITECT allows an additional period of time to ascertain more accurate data in support of the claim.
- B. The rendering of a decision by the ARCHITECT with respect to any such claim, dispute, or other matter (except any which have been waived by the making or acceptance of final payment as provided in Paragraph 14.12) will be a condition precedent to any exercise by the OWNER or the CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Law or Regulations in respect of any such claim, dispute, or other matter.

9.9 LIMITATION ON ARCHITECT'S RESPONSIBILITIES

- A. Neither the ARCHITECT's authority to act under this Article or other provisions of the Contract Documents nor any decision made by the ARCHITECT in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the ARCHITECT to the CONTRACTOR, any Subcontractor, any Supplier, any surety for any of them, or any other person or organization performing any of the WORK.
- B. Whenever in the Contract Documents the terms "as ordered," "as directed," "as required," "as allowed," "as reviewed," "as approved," or terms of like effect or import are used, or the adjectives "reasonable," "suitable," "acceptable," "proper," or "satisfactory" or adjectives of like effect or import are used to describe a requirement, direction, review, or judgment of the ARCHITECT as to the WORK, it is intended that such requirement, direction, review, or judgment will be solely to evaluate the WORK for compliance with the requirements of the Contract Documents, and conformance with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents, unless there is a specific statement indicating otherwise. The use of any such term or adjective shall not be effective to assign to the ARCHITECT any duty or authority to supervise or direct the performance of the WORK or any duty or authority to undertake responsibility contrary to the provisions of Paragraph 9.9C or 9.9D.
- C. The ARCHITECT will not supervise, direct, control, or have authority over or be responsible for the CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of the CONTRACTOR to comply with Laws and Regulations, applicable to the performance of the WORK. The ARCHITECT will not be responsible for the CONTRACTOR's failure to perform the WORK in accordance with the Contract Documents.
- D. The ARCHITECT will not be responsible for the acts or omissions of the CONTRACTOR nor of any Subcontractor, Supplier, or any other person or organization performing any of the WORK.

ARTICLE 10 CHANGES IN THE WORK

- 10.1 GENERAL
 - A. Without invalidating the Agreement and without notice to any surety, the OWNER may at any time or from time to time, order additions, deletions, or revisions in the WORK; these will be authorized by a written Field Order and/or a Change Order issued by the ARCHITECT.
 - B. If the CONTRACTOR believes that it is entitled to an increase or decrease in the Contract Price, or an extension or shortening in the Contract Time as the result of a Field Order, a claim may be made as provided in Articles 11 and 12.
 - C. If the OWNER and CONTRACTOR agree on the value of any WORK, or the amount of Contract Time that should be allowed as a result of a Field Order, upon receiving written notice from the ARCHITECT, the CONTRACTOR shall proceed so as to minimize the impact on and delays to the WORK pending the issuance of a Change Order.
 - D. If the OWNER and the CONTRACTOR are unable to agree as to the extent, if any, of an increase or decrease in the Contract Price or an extension or shortening of the Contract Time that should be

allowed as a result of a Field Order, the ARCHITECT can direct the CONTRACTOR to proceed on the basis of Time and Materials so as to minimize the impact on and delays to the WORK, and a claim may be made therefor as provided in Articles 11 and 12.

- E. The CONTRACTOR shall not be entitled to an increase in the Contract Price nor an extension of the Contract Time with respect to any WORK performed that is not required by the Contract Documents as amended, modified, supplemented by Change Order, except in the case of an emergency and except in the case of uncovering WORK as provided in Paragraph 13.3G.
- F. The OWNER and the CONTRACTOR shall execute appropriate Change Orders covering:
 - 1. changes in the WORK which are ordered by the OWNER pursuant to Paragraph 10.1A;
 - 2. changes required because of acceptance of Defective WORK under Paragraph 13.7;
 - 3. changes in the Contract Price or Contract Time which are agreed to by the parties; or
 - 4. changes in the Contract Price or Contract Time which embody the substance of any written decision rendered by the ARCHITECT pursuant to Paragraph 9.8.
- G. If notice of any change is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be the CONTRACTOR's responsibility, and the amount of each applicable Bond shall be adjusted accordingly.

10.2 ALLOWABLE QUANTITY VARIATIONS

- A. In the event of an increase or decrease in bid item quantity of a unit price contract, the total amount of WORK actually done or materials or equipment furnished shall be paid for according to the unit price established for such WORK under the Contract Documents, wherever such unit price has been established; provided, that an adjustment in the Contract Price may be made for changes which result in an increase or decrease in excess of 25% of the estimated quantity of any major item of the WORK. Major Item is defined as any bid item amount that is ten percent (10%) or more of the total contract amount.
- B. In the event a part of the WORK is to be entirely eliminated and no lump sum or unit price is named in the Contract Documents to cover such eliminated WORK, the price of the eliminated WORK shall be agreed upon in writing by the OWNER and the CONTRACTOR. If the OWNER and the CONTRACTOR fail to agree upon the price of the eliminated WORK, said price shall be determined in accordance with the provisions of Article 11.

ARTICLE 11 CHANGE OF CONTRACT PRICE

11.1 GENERAL

- A. The Contract Price constitutes the total compensation payable to the CONTRACTOR for performing the WORK. All duties, responsibilities, and obligations assigned to or undertaken by the CONTRACTOR to complete the WORK shall be at its expense without change in the Contract Price.
- B. The Contract Price may only be changed by a Change Order. Any claim for an increase in the Contract Price shall be based on written notice delivered by the CONTRACTOR to the ARCHITECT promptly (but in no event later than 30 days) after the start of the occurrence or the event giving rise to the claim

and stating the general nature of the claim. Notice of the amount of the claim with supporting data shall be delivered within 60 days after such occurrence (unless the ARCHITECT allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the CONTRACTOR's written statement that the amount claimed covers all known amounts (direct, indirect, and consequential) to which the CONTRACTOR is entitled as a result of said occurrence or event. All claims for adjustment in the Contract Price shall be determined by the ARCHITECT in accordance with Paragraph 9.8A if the OWNER and the CONTRACTOR cannot otherwise agree on the amount involved. No claim for an adjustment in the Contract Price will be valid if not submitted in accordance with this Paragraph 11.1B.

- C. The value of any WORK covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:
 - 1. Where the WORK involved is covered by unit prices contained in the Contract Documents, by application of unit prices to the quantities of the items involved.
 - 2. By mutual acceptance of a lump sum, which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.4.
 - 3. On the basis of the "Cost of WORK" (determined as provided in Paragraphs 11.3) plus a CONTRACTOR's fee for overhead and profit (determined as provided in Paragraph 11.4).
- 11.2 COSTS RELATING TO WEATHER. The CONTRACTOR shall have no claims against the OWNER for damages for any injury to WORK, materials, or equipment, resulting from the action of the elements. If, however, in the opinion of the ARCHITECT, the CONTRACTOR has made all reasonable efforts to protect the materials, equipment and WORK, the CONTRACTOR may be granted a reasonable extension of Contract Time to make proper repairs, renewals, and replacements of the WORK, materials, or equipment.

11.3 COST OF WORK (BASED ON TIME AND MATERIALS)

- A. General. The term "Cost of WORK" means the sum of all costs necessarily incurred and paid by the CONTRACTOR for labor, materials, and equipment in the proper performance of extra WORK. Except as otherwise may be agreed to in writing by the OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project; shall include only the following items, and shall not include any of the costs itemized in <u>Paragraph 11.5 EXCLUDED COSTS</u>.
- B. Labor. The costs of labor will be the actual cost for wages prevailing for each craft or type of workers performing the extra WORK at the time the extra WORK is done, plus employer payments of payroll taxes, worker's compensation insurance, liability insurance, health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State or local laws, as well as assessments or benefits required by lawful collective bargaining agreements. Labor costs for equipment operators and helpers shall be paid only when such costs are not included in the invoice for equipment rental. The labor costs for forepersons shall be proportioned to all of their assigned WORK and only that applicable to extra WORK shall be paid. Non-direct labor costs including superintendence shall be considered part of the mark-up set out in paragraph 11.4.
- C. Materials. The cost of materials reported shall be at invoice or lowest current price at which materials are locally available and delivered to the job in the quantities involved, plus the cost of freight, delivery and storage, subject to the following:

- 1. Trade discounts available to the purchaser shall be credited to the OWNER notwithstanding the fact that such discounts may not have been taken by the CONTRACTOR.
- 2. For materials secured by other than a direct purchase and direct billing to the purchaser, the cost shall be deemed to be the price paid to the actual supplier as determined by the ARCHITECT. Mark-up except for actual costs incurred in the handling of such materials will not be allowed.
- 3. Payment for materials from sources owned wholly or in part by the purchaser shall not exceed the price paid by the purchaser for similar materials from said sources on extra WORK items or the current wholesale price for such materials delivered to the WORK site, whichever price is lower.
- 4. If in the opinion of the ARCHITECT the cost of material is excessive, or the CONTRACTOR does not furnish satisfactory evidence of the cost of such material, then the cost shall be deemed to be the lowest current wholesale price for the quantity concerned delivered to the WORK site less trade discount. The OWNER reserves the right to furnish materials for the extra WORK and no claim shall be allowed by the CONTRACTOR for costs and profit on such materials.
- D. Equipment. The CONTRACTOR will be paid for the use of equipment at the rental rate listed for such equipment specified in the Supplementary General Conditions. Such rental rate will be used to compute payments for equipment whether the equipment is under the CONTRACTOR's control through direct ownership, leasing, renting, or another method of acquisition. The rental rate to be applied for use of each item of equipment shall be the rate resulting in the least total cost to the OWNER for the total period of use. If it is deemed necessary by the CONTRACTOR to use equipment not listed in the publication specified in the Supplementary General Conditions, an equitable rental rate for the equipment will be established by the ARCHITECT. The CONTRACTOR may furnish cost data which might assist the ARCHITECT in the establishment of the rental rate.
 - 1. All equipment shall, in the opinion of the ARCHITECT, be in good working condition and suitable for the purpose for which the equipment is to be used.
 - 2. Before construction equipment is used on the extra WORK, the CONTRACTOR shall plainly stencil or stamp an identifying number thereon at a conspicuous location, and shall furnish to the ARCHITECT, in duplicate, a description of the equipment and its identifying number.
 - 3. Unless otherwise specified, manufacturer's ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.
 - 4. Individual pieces of equipment or tools having a replacement value of \$200 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefor.
 - 5. Rental time will not be allowed while equipment is inoperative due to breakdowns.
 - 6. <u>Equipment</u>. Unless otherwise agreed to in writing, the CONTRACTOR will be paid for the use of equipment at the rental rate listed for such equipment specified in the current edition of the following reference publication: "Rental Rate Blue Book" available on-line at <u>http://www.equipmentwatch.com/rrbb.htm</u> or contact Equipment Watch at (800) 669-3282.
- E. Equipment on the WORK Site. The rental time to be paid for equipment on the WORK site shall be the time the equipment is in productive operation on the extra WORK being performed and, in addition, shall include the time required to move the equipment to the location of the extra WORK and return it to the original location or to another location requiring no more time than that required to return it to its original location; except, that moving time will not be paid if the equipment is used on other than the extra WORK, even though located at the site of the extra WORK. Loading and

transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made for loading and transporting costs when the equipment is used at the site of the extra WORK on other than the extra WORK. The following shall be used in computing the rental time of equipment on the WORK site.

- 1. When hourly rates are listed, any part of an hour less than 30 minutes of operation shall be considered to be 1/2-hour of operation, and any part of an hour in excess of 30 minutes will be considered one hour of operation.
- 2. When daily rates are listed, any part of a day less than 4 hours operation shall be considered to be 1/2-day of operation. When owner-operated equipment is used to perform extra WORK to be paid for on a time and materials basis, the CONTRACTOR will be paid for the equipment and operator, as set forth in Paragraphs (3), (4), and (5), following.
- 3. Payment for the equipment will be made in accordance with the provisions in Paragraph 11.3D, herein.
- 4. Payment for the cost of labor and subsistence or travel allowance will be made at the rates paid by the CONTRACTOR to other workers operating similar equipment already on the WORK site, or in the absence of such labor, established by collective bargaining agreements for the type of worker and location of the extra WORK, whether or not the operator is actually covered by such an agreement. A labor surcharge will be added to the cost of labor described herein in accordance with the provisions of Paragraph 11.3B, herein, which surcharge shall constitute full compensation for payments imposed by state and federal laws and all other payments made to or on behalf of workers other than actual wages.
- 5. To the direct cost of equipment rental and labor, computed as provided herein, will be added the allowances for equipment rental and labor as provided in Paragraph 11.4, herein.
- F. Specialty WORK. Specialty WORK is defined as that WORK characterized by extraordinary complexity, sophistication, or innovation or a combination of the foregoing attributes which are unique to the construction industry. The following shall apply in making estimates for payment for specialty WORK:
 - 1. Any bid item of WORK to be classified as Specialty WORK shall be listed as such in the Supplementary General Conditions. Specialty WORK shall be performed by an entity especially skilled in the work to be performed. After validation of invoices and determination of market values by the ARCHITECT, invoices for Specialty WORK based upon the current fair market value thereof may be accepted without complete itemization of labor, material, and equipment rental costs.
 - 2. When the CONTRACTOR is required to perform WORK necessitating special fabrication or machining process in a fabrication or a machine shop facility away from the job site, the charges for that portion of the WORK performed at the off-site facility may, by agreement, be accepted as Specialty WORK and accordingly, the invoices for the WORK may be accepted without detailed itemization.
 - 3. All invoices for specialty WORK will be adjusted by deducting all trade discounts offered or available, whether the discounts were taken or not. In lieu of the allowances for overhead and profit specified in Paragraph 11.4, herein, an allowance of 5 percent will be added to invoices for specialty WORK.
- G. Sureties. All WORK performed hereunder shall be subject to all of the provisions of the Contract Documents and the CONTRACTOR's sureties shall be bound with reference thereto as under the

original Agreement. Copies of all amendments to surety Bonds or supplemental surety Bonds shall be submitted to the OWNER for review prior to the performance of any WORK hereunder.

11.4 CONTRACTOR'S FEE

A. Extra WORK ordered on the basis of time and materials will be paid for at the actual necessary cost as determined by the ARCHITECT, plus allowances for overhead and profit. The allowance for overhead and profit shall include full compensation for superintendence, Bond and insurance premiums, taxes, field office expense, extended overhead, home office overhead, and all other items of expense or cost not included in the cost of labor, materials, or equipment provided for under Paragraph 11.3. The allowance for overhead and profit will be made in accordance with the following schedule:

Actual Overhead and Profit Allowance

Labor	
Materials	
Equipment	

To the sum of the costs and mark-ups provided for in this Article, one (1) percent shall be added as compensation for Bonds.

B. It is understood that labor, materials, and equipment may be furnished by the CONTRACTOR or by the Subcontractor on behalf of the CONTRACTOR. When all or any part of the extra WORK is performed by a Subcontractor, the allowance specified herein shall be applied to the labor, materials, and equipment costs of the Subcontractor, to which the CONTRACTOR may add five (5) percent of the Subcontractor's total cost for the extra WORK. Regardless of the number of hierarchical tiers of Subcontractors, the five (5) percent increase above the Subcontractor's total cost which includes the allowances for overhead and profit specified herein may be applied one time only.

11.5 EXCLUDED COSTS.

- A. The term "Cost of the WORK" shall not include any of the following:
 - 1. Payroll costs and other compensation of CONTRACTOR's officers, executives, principals (of partnership and sole proprietorships), general managers, architects, estimators, attorneys' auditors, accountants, purchasing and contracting agents, expenditures, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in CONTRACTOR's principal or a branch office for general administration of the WORK, or not specifically covered by paragraph 11.3, all of which are to be considered administrative costs covered by the CONTRACTOR's fee.
 - 2. Expenses of CONTRACTOR's principal and branch offices other than CONTRACTOR's office at the site.
 - 3. Any part of CONTRACTOR's capital expenses, including interest on CONTRACTOR's capital employed for the WORK and charges against CONTRACTOR for delinquent payments.
 - 4. Cost of premiums for all Bonds and for all insurance whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except for the cost of premiums covered by paragraph 11.4 above).
 - 5. Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but

not limited to, the correction of Defective WORK, disposal of materials or equipment wrongly supplied and making good any damage to property.

6. Other overhead or general expense costs of any kind and the cost of any item not specifically and expressly included in paragraph 11.4.

ARTICLE 12 CHANGE OF CONTRACT TIME

12.1 GENERAL

- A. The Contract Time may only be changed by a Change Order. Any claim for an extension of the Contract Time (or Milestones) shall be based on written notice delivered by the CONTRACTOR to the ARCHITECT promptly (but in no event later than 30 days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the extent of the claim with supporting data shall be delivered within 60 days after such occurrence (unless the ARCHITECT allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the CONTRACTOR's written statement that the adjustment claimed is the entire adjustment to which the CONTRACTOR has reason to believe it is entitled as a result of the occurrence of said event. All claims for adjustment in the Contract Time shall be determined by the ARCHITECT in accordance with Paragraph 9.8 if the OWNER and the CONTRACTOR cannot otherwise agree. No claim for an adjustment in the Contract Time will be valid if not submitted in accordance with the requirements of this paragraph. An increase in Contract Time does not mean that the CONTRACTOR is due an increase in Contract Price.
- B. All time limits stated in the Contract Documents are of the essence of the Agreement.
- C. Where CONTRACTOR is prevented from completing any part of the WORK within the Contract Times (or Milestones) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) will be extended in an amount equal to the time lost on the critical path of the Project due to such delay if a claim is made therefor as provided in paragraph 12.1. Delays beyond the control of CONTRACTOR shall include, but not be limited to, acts or neglect by OWNER, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, unprecedented weather conditions or acts of God. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of CONTRACTOR.
- D. Where CONTRACTOR is prevented from completing any part of the WORK within the Contract Times (or Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost on the critical path of the Project due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay. In no event shall the OWNER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surety for or employee or agent of any of them, for damages arising out of or resulting from (i) delays caused by or within the control of CONTRACTOR, or (ii) delays beyond the control of both parties including but not limited to fires, floods, epidemics abnormal weather conditions, acts of God or acts or neglect by utility owners or other contractors performing other work as contemplated by Article 7.

12.2 EXTENSIONS OF TIME FOR DELAY DUE TO WEATHER. Contract time may be extended by the ARCHITECT because of delays in completion of the WORK due to unusually severe weather, provided that the CONTRACTOR shall, within 10 days of the beginning of any such delay, notify the ARCHITECT in writing of the cause of delay and request an extension of contract time. The ARCHITECT will ascertain the facts and the extent of the delay and extend the time for completing the WORK when, in the ARCHITECT's judgment, the findings of fact justify such an extension. Unprecedented, abnormal, or unusually severe weather will be defined as an event, or events, with a greater than 50-year recurrence interval, as determined by the National Weather Service, or equivalent state or federal agency.

ARTICLE 13 WARRANTY AND GUARANTEE; TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

- 13.1 WARRANTY AND GUARANTEE. The CONTRACTOR warrants and guarantees to the OWNER and the ARCHITECT that all WORK will be in accordance with the Contract Documents and will not be defective. Prompt notice of defects known to the OWNER or ARCHITECT shall be given to the CONTRACTOR. All Defective WORK, whether or not in place, may be rejected, corrected, or accepted as provided in this Article 13.
- 13.2 ACCESS TO WORK. The OWNER, ARCHITECT, Architect of Record, their consultants, subconsultants, other representatives and personnel of OWNER, independent testing laboratories and governmental agencies with jurisdictional interests will have access to the WORK at reasonable times for their observation, inspecting and testing. CONTRACTOR shall provide them proper and safe conditions for such access and advise them of CONTRACTOR's site safety procedures and programs so that they may comply therewith as applicable.

13.3 INSPECTIONS AND TESTS

- A. The CONTRACTOR shall give the ARCHITECT timely notice of readiness of the WORK for all required inspections, tests, or approvals, and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- B. If Laws or Regulations of any public body having jurisdiction other than the OWNER require any WORK to specifically be inspected, tested, or approved, the CONTRACTOR shall pay all costs in connection therewith. The CONTRACTOR shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with the OWNER's or the ARCHITECT's acceptance of a Supplier of materials or equipment proposed as a substitution or (or-equal) to be incorporated in the WORK, or of materials or equipment submitted for review prior to the CONTRACTOR's purchase thereof for incorporation in the WORK. The cost of all inspections, tests, and approvals in addition to the above which are required by the Contract Documents shall be paid by the OWNER (unless otherwise specified).
- C. The ARCHITECT will make, or have made, such inspections and tests as the ARCHITECT deems necessary to see that the WORK is being accomplished in accordance with the requirements of the Contract Documents. Unless otherwise specified in the Supplementary General Conditions, the cost of such inspection and testing will be borne by the OWNER. In the event such inspections or tests reveal non-compliance with the requirements of the Contract Documents, the CONTRACTOR shall bear the cost of corrective measures deemed necessary by the ARCHITECT, as well as the cost of subsequent re-inspection and retesting. Neither observations by the ARCHITECT nor inspections, tests, or

approvals by others shall relieve the CONTRACTOR from the CONTRACTOR's obligation to perform the WORK in accordance with the Contract Documents.

- D. All inspections, tests, or approvals other than those required by Laws or Regulations of any public body having jurisdiction shall be performed by organizations acceptable to the ARCHITECT and the CONTRACTOR.
- E. If any WORK (including the work of others anticipated under paragraph 7.1) that is to be inspected, tested, or approved is covered without written concurrence of the ARCHITECT, it must, if requested by the ARCHITECT, be uncovered for observation. Such uncovering shall be at the CONTRACTOR's expense unless the CONTRACTOR has given the ARCHITECT timely notice of the CONTRACTOR's intention to perform such test or to cover the same and the ARCHITECT has not acted with reasonable promptness in response to such notice.
- F. If any WORK is covered contrary to the written request of the ARCHITECT, it must, if requested by the ARCHITECT, be uncovered for the ARCHITECT's observation and recovered at the CONTRACTOR's expense.
- G. If the ARCHITECT considers it necessary or advisable that covered WORK be observed by the ARCHITECT or inspected or tested by others, the CONTRACTOR, at the ARCHITECT's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as the ARCHITECT may require, that portion of the WORK in question, furnishing all necessary labor, material, and equipment. If it is found that such WORK is defective, the CONTRACTOR shall bear all direct, indirect, and consequential costs and damages of such uncovering, exposure, observation, inspection, and testing and of satisfactory reconstruction, including but not limited to fees and charges of Architects of Record, attorneys, and other professionals. However, if such WORK is not found to be defective, the CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, and reconstruction; and, if the parties are unable to agree as to the amount or extent thereof, the CONTRACTOR may make a claim therefor as provided in Articles 11 and 12.
- 13.4 OWNER MAY STOP THE WORK. If the WORK is defective, or the CONTRACTOR fails to perform WORK in such a way that the completed WORK will conform to the Contract Documents, the OWNER may order the CONTRACTOR to stop the WORK, or any portion thereof, until the cause for such order has been eliminated; however, this right of the OWNER to stop the WORK shall not give rise to any duty on the part of the OWNER to exercise this right for the benefit of the CONTRACTOR or any other party.
- 13.5 CORRECTION OR REMOVAL OF DEFECTIVE WORK. If required by the ARCHITECT, the CONTRACTOR shall promptly, either correct all Defective WORK, whether or not fabricated, installed, or completed, or, if the WORK has been rejected by the ARCHITECT, remove it from the site and replace it with non-defective WORK. The CONTRACTOR shall bear all direct, indirect and consequential costs and damages of such correction or removal, including but not limited to fees and charges of Architects of Record, attorneys, and other professionals made necessary thereby.

13.6 ONE YEAR CORRECTION PERIOD

A. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the

Contract Documents or by any specific provision of the Contract Documents, any WORK is found to be defective, the CONTRACTOR shall promptly, without cost to the OWNER and in accordance with OWNER's written notification, (i) correct such Defective WORK, or, if it has been rejected by the OWNER, remove it from the site and replace it with non-defective WORK, and (ii) satisfactorily correct or remove and replace any damage to other work of others resulting therefrom. If the CONTRACTOR does not promptly comply with such notification, or in an emergency where delay would cause serious risk of loss or damage, the OWNER may have the Defective WORK corrected or the rejected WORK removed and replaced, and all direct, indirect, and consequential costs and damages of such removal and replacement including but not limited to fees and charges of Architects of Record, attorneys and other professionals will be paid by the CONTRACTOR.

- B. Where Defective WORK (and damage to other WORK resulting therefrom) has been corrected, removed or replaced under this paragraph 13.6, the correction period hereunder with respect to such WORK will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- 13.7 ACCEPTANCE OF DEFECTIVE WORK. If, instead of requiring correction or removal and replacement of Defective WORK, the OWNER prefers to accept the WORK, the OWNER may do so. The CONTRACTOR shall bear all direct, indirect, and consequential costs attributable to the OWNER's evaluation of and determination to accept such Defective WORK. If any such acceptance occurs prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the WORK, and the OWNER shall be entitled to an appropriate decrease in the Contract Price.

ARTICLE 14 PAYMENTS TO CONTRACTOR AND COMPLETION

- 14.1 SCHEDULE OF VALUES (LUMP SUM PRICE BREAKDOWN). The Schedule of Values or lump sum price breakdown established as provided in the General Requirements shall serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to the ARCHITECT.
- 14.2 UNIT PRICE BID SCHEDULE. Progress payments on account of Unit Price WORK will be based on the number of units completed.
- 14.3 APPLICATION FOR PROGRESS PAYMENT
 - A. Unless otherwise prescribed by law, on the 25th of each month, the CONTRACTOR shall submit to the ARCHITECT for review, an Application for Payment filled out and signed by the CONTRACTOR covering the WORK completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.
 - B. The Application for Payment shall identify, as a sub-total, the amount of the CONTRACTOR's Total Earnings to Date, plus the Value of Materials Stored at the Site which have not yet been incorporated in the WORK, and less a deductive adjustment for materials installed which were not previously incorporated in the WORK, but for which payment was allowed under the provisions for payment for Materials Stored at the Site, but not yet incorporated in the WORK.
 - C. The Net Payment Due the CONTRACTOR shall be the above-mentioned subtotal from which shall be deducted the total amount of all previous payments made to the CONTRACTOR. Progress payments

will be paid in full in accordance with Article 14 of the General Conditions until 90% of the contract amount has been paid. The remaining 10% of the contract amount shall be retained until:

- 1. final inspection has been made;
- 2. completion of the project;
- 3. acceptance of the project by the OWNER and;
- 4. the OWNER has received notification from the Alaska Department of Labor that the CONTRACTOR has no outstanding wage/hour violations.
- D. The Value of Materials Stored at the Site shall be an amount equal to the specified percent of the value of such materials as set forth in the Supplementary General Conditions. Said amount shall be based upon the value of all acceptable materials and equipment not incorporated in the WORK but delivered and suitably stored at the Project site or at another location agreed to in writing; provided, each such individual item has a value of more than \$5000 and will become a permanent part of the WORK. The Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that the CONTRACTOR has received the materials and equipment free and clear of all liens, charges, security interests, and encumbrances (which are hereinafter in these General Conditions referred to as "Liens") and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect the OWNER's interest therein, all of which will be satisfactory to the OWNER.
- 14.4 CONTRACTOR'S WARRANTY OF TITLE. The CONTRACTOR warrants and guarantees that title to all WORK, materials, and equipment covered by an Application for Payment, whether incorporated in the WORK or not, will pass to the OWNER no later than the time of payment free and clear of all liens.
- 14.5 REVIEW OF APPLICATIONS FOR PROGRESS PAYMENT
 - A. The ARCHITECT will, within seven (7) days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to the OWNER, or return the Application to the CONTRACTOR indicating in writing the ARCHITECT's reasons for refusing to recommend payment. In the later case, the CONTRACTOR may make the necessary corrections and resubmit the Application. If the ARCHITECT still disagrees with a portion of the Application, it will submit the Application recommending the undisputed portion of the Application to the OWNER for review and provide reasons for recommending non-payment of the disputed amount. Thirty days after presentation of the Application for Payment with the ARCHITECT's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.5B) become due and when due will be paid by the OWNER to the CONTRACTOR.
 - B. The OWNER may refuse to make payment of the full amount recommended by the ARCHITECT because claims have been made against the OWNER on account of the CONTRACTOR's performance of the WORK or Liens have been filed in connection with the WORK or there are other items entitling the OWNER to a credit against the amount recommended, but the OWNER must give the CONTRACTOR written notice within seven (7) days (with a copy to the ARCHITECT) stating the reasons for such action.

14.6 PARTIAL UTILIZATION

- A. The OWNER shall have the right to utilize or place into service any item of equipment or other usable portion of the WORK prior to completion of the WORK. Whenever the OWNER plans to exercise said right, the CONTRACTOR will be notified in writing by the OWNER, identifying the specific portion or portions of the WORK to be so utilized or otherwise placed into service.
- B. It shall be understood by the CONTRACTOR that until such written notification is issued, all responsibility for care and maintenance of all of the WORK shall be borne by the CONTRACTOR. Upon issuance of said written notice of partial utilization, the OWNER will accept responsibility for the protection and maintenance of all such items or portions of the WORK described in the written notice.
- C. The CONTRACTOR shall retain full responsibility for satisfactory completion of the WORK, regardless of whether a portion thereof has been partially utilized by the OWNER and the CONTRACTOR's one year correction period shall commence only after the date of Substantial Completion for the WORK.
- 14.7 SUBSTANTIAL COMPLETION. When the CONTRACTOR considers the WORK ready for its intended use the CONTRACTOR shall notify the OWNER and the ARCHITECT in writing that the WORK is substantially complete. The CONTRACTOR will attach to this request a list of all WORK items that remain to be completed and a request that the ARCHITECT prepare a Notice of Completion. Within a reasonable time thereafter, the OWNER, the CONTRACTOR, and the ARCHITECT shall make an inspection of the WORK to determine the status of completion. If the ARCHITECT does not consider the WORK substantially complete, or the list of remaining WORK items to be comprehensive, the ARCHITECT will notify the CONTRACTOR in writing giving the reasons thereof. If the ARCHITECT considers the WORK substantially complete, the ARCHITECT will prepare and deliver to the OWNER, for its execution and recording, the Notice of Completion signed by the ARCHITECT and CONTRACTOR, which shall fix the date of Substantial Completion.
- 14.8 FINAL APPLICATION FOR PAYMENT. After the CONTRACTOR has completed all of the remaining WORK items referred to in Paragraph 14.7 and delivered all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, record as-built documents (as provided in the General Requirements) and other documents, all as required by the Contract Documents, and after the ARCHITECT has indicated that the WORK is acceptable, the CONTRACTOR may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to the OWNER) of all liens arising out of or filed in connection with the WORK.

14.9 FINAL PAYMENT AND ACCEPTANCE

A. If, on the basis of the ARCHITECT's observation of the WORK during construction and final inspection, and the ARCHITECT's review of the final Application for Payment and accompanying documentation, all as required by the Contract Documents, the ARCHITECT is satisfied that the WORK has been completed and the CONTRACTOR's other obligations under the Contract Documents have been fulfilled, the ARCHITECT will, within 14 days after receipt of the final Application for Payment, indicate in writing the ARCHITECT's recommendation of payment and present the Application to the OWNER for payment.

- B. After acceptance of the WORK by the OWNER's governing body, the OWNER will make final payment to the CONTRACTOR of the amount remaining after deducting all prior payments and all amounts to be kept or retained under the provisions of the Contract Documents, including the following items:
 - 1. Liquidated damages, as applicable.
 - 2. Two times the value of outstanding items of correction WORK or punch list items yet uncompleted or uncorrected, as applicable. All such WORK shall be completed or corrected to the satisfaction of the OWNER within the time stated on the Notice of Completion, otherwise the CONTRACTOR does hereby waive any and all claims to all monies withheld by the OWNER to cover the value of all such uncompleted or uncorrected items.

14.10 RELEASE OF RETAINAGE AND OTHER DEDUCTIONS

- A. After executing the necessary documents to initiate the lien period, and not more than 45 days thereafter (based on a 30-day lien filing period and 15-day processing time), the OWNER will release to the CONTRACTOR the retainage funds withheld pursuant to the Agreement, less any deductions to cover pending claims against the OWNER pursuant to Paragraph 14.5B.
- B. After filing of the necessary documents to initiate the lien period, the CONTRACTOR shall have 30 days to complete any outstanding items of correction WORK remaining to be completed or corrected as listed on a final punch list made a part of the Notice of Completion. Upon expiration of the 45 days, referred to in Paragraph 14.10A, the amounts withheld pursuant to the provisions of Paragraph 14.9B herein, for all remaining WORK items will be returned to the CONTRACTOR; provided, that said WORK has been completed or corrected to the satisfaction of the OWNER within said 30 days. Otherwise, the CONTRACTOR does hereby waive any and all claims for all monies withheld by the OWNER under the contract to cover 2 times the value of such remaining uncompleted or uncorrected items.
- 14.11 CONTRACTOR'S CONTINUING OBLIGATION. The CONTRACTOR's obligation to perform and complete the WORK in accordance with the Contract Documents shall be absolute. Neither recommendation of any progress or final payment by the ARCHITECT, nor the issuance of a Notice of Completion, nor any payment by the OWNER to the CONTRACTOR under the Contract Documents, nor any use or occupancy of the WORK or any part thereof by the OWNER, nor any act of acceptance by the OWNER nor any failure to do so, nor any review of a Shop Drawing or sample submittal, will constitute an acceptance of WORK not in accordance with the Contract Documents or a release of the CONTRACTOR's obligation to perform the WORK in accordance with the Contract Documents.
- 14.12 FINAL PAYMENT TERMINATES LIABILITY OF OWNER. Final payment is defined as the last progress payment made to the CONTRACTOR for earned funds, less monies withheld as applicable, pursuant to Paragraph 14.10A. The acceptance by the CONTRACTOR of the final payment referred to in Paragraph 14.9 herein, shall be a release of the OWNER and its agents from all claims of liability to the CONTRACTOR for anything done or furnished for, or relating to, the WORK or for any act of neglect of the OWNER or of any person relating to or affecting the WORK, except demands against the OWNER for the remainder, if any, of the amounts kept or retained under the provisions of Paragraph 14.9 herein; and excepting pending, unresolved claims filed prior to the date of the Notice of Completion.

ARTICLE 15 SUSPENSION OF WORK AND TERMINATION

15.1 SUSPENSION OF WORK BY OWNER. The OWNER, acting through the ARCHITECT, may, at any time and without cause, suspend the WORK or any portion thereof for a period of not more than 90 days by notice in writing to the CONTRACTOR. The CONTRACTOR shall resume the WORK on receipt from the ARCHITECT of a notice of resumption of WORK. The CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if the CONTRACTOR makes an approved claim therefor as provided in Articles 11 and 12.

15.2 TERMINATION OF AGREEMENT BY OWNER (CONTRACTOR DEFAULT)

- A. In the event of default by the CONTRACTOR, the OWNER may give 10 days written notice to the CONTRACTOR of OWNER's intent to terminate the Agreement and provide the CONTRACTOR an opportunity to remedy the conditions constituting the default. It shall be considered a default by the CONTRACTOR whenever CONTRACTOR shall: (1) declare bankruptcy, become insolvent, or assign its assets for the benefit of its creditors; (2) fail to provide materials or quality of WORK meeting the requirements of the Contract Documents; (3) disregard or violate provisions of the Contract Documents or ARCHITECT's instructions; (4) fail to prosecute the WORK according to the approved progress schedule; or, (5) fail to provide a qualified superintendent, competent workers, or materials or equipment meeting the requirements of the Contract Documents. If the CONTRACTOR fails to remedy the conditions constituting default within the time allowed, the OWNER may then issue the Notice of Termination.
- B. In the event the Agreement is terminated in accordance with Paragraph 15.2A, herein, the OWNER may take possession of the WORK and may complete the WORK by whatever method or means the OWNER may select. The cost of completing the WORK shall be deducted from the balance which would have been due the CONTRACTOR had the Agreement not been terminated and the WORK completed in accordance with the Contract Documents. If such cost exceeds the balance which would have been due, the CONTRACTOR shall pay the excess amount to the OWNER. If such cost is less than the balance which would have been due, the CONTRACTOR shall not have claim to the difference.
- 15.3 TERMINATION OF AGREEMENT BY OWNER (FOR CONVENIENCE). The OWNER may terminate the Agreement at any time if it is found that reasons beyond the control of either the OWNER or CONTRACTOR make it impossible or against the OWNER's interests to complete the WORK. In such a case, the CONTRACTOR shall have no claims against the OWNER except: (1) for the value of WORK performed up to the date the Agreement is terminated; and, (2) for the cost of materials and equipment on hand, in transit, or on definite commitment, as of the date the Agreement is terminated, which would be needed in the WORK and which meet the requirements of the Contract Documents. The value of WORK performed and the cost of materials and equipment delivered to the site, as mentioned above, shall be determined by the ARCHITECT in accordance with the procedure prescribed for the making of the final Application for Payment and payment under Paragraphs 14.8 and 14.9.
- 15.4 TERMINATION OF AGREEMENT BY CONTRACTOR. The CONTRACTOR may terminate the Agreement upon 10 days written notice to the OWNER, whenever: 1) the WORK has been suspended under the provisions of Paragraph 15.1, herein, for more than 90 consecutive days through no fault or

negligence of the CONTRACTOR, and notice to resume WORK or to terminate the Agreement has not been received from the OWNER within this time period; or, 2) the OWNER should fail to pay the CONTRACTOR any monies due to the CONTRACTOR in accordance with the terms of the Contract Documents and within 60 days after presentation to the OWNER by the CONTRACTOR of a request therefor, unless within said 10-day period the OWNER shall have remedied the condition upon which the payment delay was based. In the event of such termination, the CONTRACTOR shall have no claims against the OWNER except for those claims specifically enumerated in Paragraph 15.3, herein, and as determined in accordance with the requirements of said paragraph.

ARTICLE 16 MISCELLANEOUS

16.1 GIVING NOTICE. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

16.2 RIGHTS IN AND USE OF MATERIALS FOUND ON THE WORK

- A. The CONTRACTOR may use on the Project, with ARCHITECT's approval, such stone, gravel, sand, or other material determined suitable by the ARCHITECT, as may be found in the excavation. The CONTRACTOR will be paid for the excavation of such material at the corresponding contract unit price. No additional payment will be made for utilizing the material from excavation as borrow, or select borrow.
- B. The CONTRACTOR shall replace, at its own expense, with other acceptable material, all of that portion of the excavated material so removed and used which was needed for use on the Project. No charge for the materials so used will be made against the CONTRACTOR except that the CONTRACTOR shall be responsible for payment of any royalties required.
- C. The CONTRACTOR shall not excavate or remove any material from within the Project location which is not within the grading limits, as indicated by the slope and grade lines, without written authorization from the ARCHITECT.
- D. In the event the CONTRACTOR has processed materials from OWNER-furnished sources in excess of the quantities required for performance of this contract, including any waste material produced as a by-product, the CBJ may retain possession of such materials without obligation to reimburse the CONTRACTOR for the cost of their production. When such materials are in a stockpile, the ARCHITECT may require: that it remain in stockpile; the CONTRACTOR level such stockpile(s); or that the CONTRACTOR remove such materials and restore the premises to a satisfactory condition at the CONTRACTOR's expense. This provision shall not preclude the CBJ from arranging with the CONTRACTOR to produce material over and above the contract needs, payment for which shall be by written agreement between the CBJ and the CONTRACTOR.
- E. Unless otherwise provided, the material from any existing old structure may be used temporarily by the CONTRACTOR in the erection of the new structure. Such material shall not be cut or otherwise damaged except with the approval of the ARCHITECT.

- 16.3 RIGHT TO AUDIT. If the CONTRACTOR submits a claim to the OWNER for additional compensation, the OWNER shall have the right, as a condition to considering the claim, and as a basis for evaluation of the claim, and until the claim has been settled, to audit the CONTRACTOR's books to the extent they are relevant. This right shall include the right to examine books, records, documents, and other evidence and accounting procedures and practices, sufficient to discover and verify all direct and indirect costs of whatever nature claimed to have been incurred or anticipated to be incurred and for which the claim has been submitted. The right to audit shall include the right to inspect the CONTRACTOR's plants, or such parts thereof, as may be or have been engaged in the performance of the WORK. The CONTRACTOR further agrees that the right to audit encompasses all subcontracts and is binding upon Subcontractors. The rights to examine and inspect herein provided for shall be exercisable through such representatives as the OWNER deems desirable during the CONTRACTOR's normal business hours at the office of the CONTRACTOR. The CONTRACTOR shall make available to the OWNER for auditing, all relevant accounting records and documents, and other financial data, and upon request, shall submit true copies of requested records to the OWNER.
- 16.4 ARCHAEOLOGICAL OR HISTORICAL DISCOVERIES. When the CONTRACTOR's operation encounters prehistoric artifacts, burials, remains of dwelling sites, paleontological remains, such as shell heaps, land or sea mammal bones or tusks, or other items of historical significance, the CONTRACTOR shall cease operations immediately and notify the ARCHITECT. No artifacts or specimens shall be further disturbed or removed from the ground and no further operations shall be performed at the site until so directed. Should the ARCHITECT order suspension of the CONTRACTOR's operations in order to protect an archaeological or historical finding, or order the CONTRACTOR to perform extra WORK, such order(s) shall be covered by an appropriate contract change document.
- 16.5 CONSTRUCTION OVER OR ADJACENT TO NAVIGABLE WATERS. All WORK over, on, or adjacent to navigable waters shall be so conducted that free navigation of the waterways will not be interfered with and the existing navigable depths will not be impaired, except as allowed by permit issued by the U.S. Coast Guard and/or the U.S. Army Corps of Engineers, as applicable.
- 16.6 GRATUITY AND CONFLICT OF INTEREST. The CONTRACTOR agrees to not extend any loan, gratuity or gift of money of any form whatsoever to any employee or elected official of the OWNER, nor will the CONTRACTOR rent or purchase any equipment or materials from any employee or elected official of the OWNER, or to the best of the CONTRACTOR's knowledge, from any agent of any employee or elected official of the OWNER. Before final payment, the CONTRACTOR shall execute and furnish the OWNER an affidavit certifying that the CONTRACTOR has complied with the above provisions of the contract.

16.7 SUITS OF LAW CONCERNING THE WORK

- A. Should a suit of law be entered into, either by the CONTRACTOR (or the CONTRACTOR's surety) against the OWNER, or by the OWNER against the CONTRACTOR (or the CONTRACTOR's surety), the suit of law shall be tried in the First Judicial District of Alaska.
- B. If one of the questions at issue is the satisfactory performance of the WORK by the CONTRACTOR and should the appropriate court of law judge the WORK of the CONTRACTOR to be unsatisfactory, then the CONTRACTOR (or the CONTRACTOR's surety) shall reimburse the OWNER for all legal and all other expenses (as may be allowed and set by the court) incurred by the OWNER because of

the suit of the law and, further, it is agreed that the OWNER may deduct such expense from any sum or sums then, or any that become due the CONTRACTOR under the contract.

16.8 CERTIFIED PAYROLLS

- A. All CONTRACTORs or Subcontractor who perform work on a public construction contract for the OWNER shall file a Certified Payroll with the Alaska Department of Labor every two weeks. Before the second Friday, each CONTRACTOR and Subcontractor must file Certified Payrolls with Statements of Compliance for the previous two weeks. (Section 14-2-4 ACLA 1949; am Section 4 ch 142 SLA 1972).
- B. In lieu of submitting the State payroll form, the CONTRACTOR's standard payroll form may be submitted, provided it contains the information required by AS 36.05.040 and a statement that the CONTRACTOR is complying with AS 36.10.010.
- C. Any CONTRACTOR or Subcontractor, who performs work on public construction in the State, as defined by AS 36.95.010(3), shall pay not less than the current prevailing rate of wages as issued by the Alaska Department of Labor before the end of the pay period. (AS 36.05.010).

16.9 PREVAILING WAGE RATES

- A. Wage rates for Laborers and Mechanics on Public Contracts, AS 36.05.070. The CONTRACTOR, or Subcontractors, shall pay all employees unconditionally and not less than once a week. Wages may not be less than those stated in Paragraph 16.8C, regardless of the contractual relationship between the CONTRACTOR or Subcontractors and laborers, mechanics, or field surveyors. The scale of wages to be paid shall be posted by the CONTRACTOR in a prominent, easily accessible place at the site of the WORK.
- B. Failure to Pay Agreed Wages, AS 36.05.080. If it is found that a laborer, mechanic, or field surveyor employed by the CONTRACTOR or Subcontractor has been, or is being, paid a rate or wages less than the established rate, the OWNER may, by written notice, terminate the CONTRACTOR or Subcontractors right to proceed with the WORK. The OWNER may prosecute the WORK to completion by contract or otherwise, and the CONTRACTOR and sureties will be held liable to the OWNER for excess costs for completing the WORK. (Section 2 ch 52 SLA 1959).
- C. Listing CONTRACTORS Who Violate contracts, AS 36.05.090. In addition, a list giving the names of persons who have disregarded the rights of their employees shall be distributed to all departments of State government and all political subdivisions. No person appearing on this list, and no firm, corporation, partnership or association in which the person has an interest, may WORK as a CONTRACTOR or Subcontractor on a public construction contract for the State, or a political subdivision of the state, until three years after the date of publication of the list. (Section 3 ch 52 SLA 1959; am Section 9 ch 142 SLA).
- 16.10 EMPLOYMENT REFERENCE. Workers employed in the execution of the contract by the CONTRACTOR or by any Subcontractor under this contract shall not be required or permitted to labor more than 8 hours a day or 40 hours per week in violation of the provisions of the Alaska Wage and Hour Act, Section 23.10.060.

16.11 COST REDUCTION INCENTIVE

- A. At any time within 45 days after the date of the Notice of Award, the CONTRACTOR may submit to the ARCHITECT in writing, proposals for modifying the plans, specifications, or other requirements of this contract for the sole purpose of reducing the total cost of construction. The cost reduction proposal shall not impair in any manner the essential functions or characteristics of the project, including but not limited to, service life, economy of operation, ease of maintenance, desired appearance or design and safety standards.
- B. The cost reduction proposal shall contain the following information:
 - 1. Description of both the existing contract requirements for performing the WORK and the proposed changes.
 - 2. An itemization of the contract requirements that must be changed if the proposal is adopted.
 - 3. A detailed estimate of the time required and the cost of performing the WORK under both the existing contract and the proposed change.
 - 4. A statement of the date by which the CONTRACTOR must receive the decision from the OWNER on the cost reduction proposal.
 - 5. The contract items of WORK effected by the proposed changes including any quantity variations.
 - 6. A description and estimate of costs the OWNER may incur in implementing the proposed changes, such as test and evaluation and operating and support costs.
 - 7. A prediction of any effects the proposed change would have on future operations and maintenance costs to the OWNER.
- C. The provisions of this section shall not be construed to require the OWNER to consider any cost reduction proposal which may be submitted; nor will the OWNER be liable to the CONTRACTOR for failure to accept or act upon any cost reduction proposal submitted, or for delays to the WORK attributable to the consideration or implementation of any such proposal.
- D. If a cost reduction proposal is similar to a change in the plans or Specifications for the Project under consideration by the OWNER at the time the proposal is submitted, the OWNER will not accept such proposal and reserves the right to make such changes without compensation to the CONTRACTOR under the provisions of this section.
- E. The CONTRACTOR shall continue to perform the WORK in accordance with the requirements of the contract until an executed Change Order incorporating the cost reduction proposal has been issued. If any executed Change Order has not been issued by the date upon which the CONTRACTOR's cost reduction proposal specifies that a decision should be made by the OWNER, in writing, the cost reduction proposal shall be considered rejected.
- F. The OWNER, shall be the sole judge of the acceptability of a cost reduction proposal and of the estimated net savings in Contract Time and construction costs resulting from the adoption of all or any part of such proposal. Should the CONTRACTOR disagree with OWNER's decision on the cost reduction proposal, there is no further consideration. The OWNER reserves the right to make final determination.
- G. If the CONTRACTOR's cost reduction proposal is accepted in whole or in part, such acceptance will be made by a Contract Change Order, which specifically states that the change is executed pursuant to

this cost reduction proposal section. Such Change Order shall incorporate the changes in the plans and Specifications which are necessary to permit the cost reduction proposal or such part of it as has been accepted to be put into effect and shall include any conditions upon which the OWNER's approval is based, if such approval is conditional. The Change Order shall also describe the estimated net savings in the cost of performing the WORK attributable to the cost reduction proposal, and shall further provide that the contract cost be adjusted by crediting the OWNER with the estimated net savings amount.

- H. Acceptance of the cost reduction proposal and performance of the WORK does not extend the time of completion of the contract, unless specifically provided in the Change Order authorizing the use of the submitted proposal. Should the adoption of the cost reduction proposal result in a Contract Time savings, the total Contract Time shall be reduced by an amount equal to the time savings realized.
- I. The amount specified to the CONTRACTOR in the Change Order accepted in the cost reduction proposal shall constitute full compensation for the performance of WORK. No claims for additional costs as a result of the changes specified in the cost reduction proposal shall be allowed.
- J. The OWNER reserves the right to adopt and utilize any approved cost reduction proposal for general use on any contract administered when it is determined suitable for such application. Cost reduction proposals identical, similar, or previously submitted will not be accepted for consideration if acceptance and compensation has previously been approved. The OWNER reserves the right to use all or part of any cost reduction proposal without obligation or compensation of any kind to the CONTRACTOR.
- K. The CONTRACTOR shall bear the costs, if any, to revise all Bonds and insurance requirements for the Project, to include the cost reduction WORK.

END OF SECTION

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

GENERAL. These Supplementary General Conditions make additions, deletions, or revisions to the General Conditions as indicated herein. All provisions which are not so added, deleted, or revised remain in full force and effect. Terms used in these Supplementary General Conditions which are defined in the General Conditions have the meanings assigned to them in the General Conditions.

SGC 1 DEFINITIONS. *Remove* the definition for Contract Documents and *replace* with the following:

Contract Documents – The Table of Contents, Notice Inviting Bids, Instructions to Bidders, Bid Forms (including the Bid, Bid Schedule(s), Subcontractor Report, Bid Bond, and all required certificates and affidavits), Agreement, Performance Bond, Payment Bond, General Conditions, Supplementary General Conditions, Alaska Labor Standards, Reporting, and Prevailing Wage Rate Determination, Special Provisions, Standard Specifications, Technical Specifications, Drawings, Permits, and all Addenda, and Change Orders executed pursuant to the provisions of the Contract Documents.

SGC 2.2 COPIES OF DOCUMENTS. Add the following:

The OWNER shall furnish to the CONTRACTOR two (2) hard copies of the Contract Documents which will include bound reduced Drawings and one (1) electronic copy (pdf format) on CD-ROM. Additional copies of contract documents are the responsibility of the contractor.

SGC 3.2 ORDER OF PRECEDENCE OF CONTRACT DOCUMENTS. *Remove* No. 13. Drawings, and *add* the following:

- 13. <u>Standard Specifications for Civil Engineering Projects and Subdivision Improvements</u> December 2003 Edition with current Errata Sheets.
- 14. Drawings.
- 15. CBJ Standard Details August 2011 Edition with Current Errata Sheets.

SGC 4.2 PHYSICAL CONDITIONS - SUBSURFACE AND EXISTING STRUCTURES. *Add* the following:

C. In the preparation of the Contract Documents, the Engineer of Record has relied upon field measurements and visual inspection of the existing structures and surface conditions.

SGC - 4.6 USE OF THE CBJ/STATE LEMON CREEK GRAVEL PIT. Add the following.

The CBJ/State Lemon Creek Gravel Pit is not available for this Project.

SGC 5.1 PERFORMANCE, PAYMENT, AND OTHER BONDS. The Contractor shall furnish Performance and Payment Bonds in the amount of 100% of the Bid.

SGC 5.2 INSURANCE AMOUNTS. The limits of liability for the insurance required by Paragraph 5.2 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations. The CONTRACTOR must provide certification of proper insurance coverage and amendatory endorsements or copies of the applicable policy language affecting coverage required in this agreement to the City and Borough of Juneau. All certificates of insurance supplied to the OWNER shall state that the OWNER is named as "Additional Insured for any and all work performed for the City & Borough of Juneau" for the Commercial General Liability policy and any other policies, if required in this Section. NOTE: This requirement has changed. The OWNER no longer requires certificates of insurance referencing project names and contract numbers. MRCS SITE AND PLAYGROUND UPGRADES

UPGRADES SUPPLEMENTARY GENERAL CONDITIONS Contract No. BE21-240 Page 00800-1

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

Delete paragraph C and *Replace* with the following paragraph C:

C. The CONTRACTOR shall furnish the OWNER with certificates showing the type, amount, class of operations covered, effective dates and dates of expiration of policies. Failure of CBJ to demand such certificate or other evidence of full compliance with these insurance requirements or failure of CBJ to identify a deficiency from evidence that is provided shall not be construed as a waiver of the obligation of the Contractor to maintain the insurance required by this contract. The coverage afforded will not be cancelled, reduced in coverage, or renewal refused until at least 30 days' prior written notice has been given to the OWNER by the CONTRACTOR. All such insurance required herein (except for Workers' Compensation and Employer's Liability) shall name the OWNER, its Consultants and subconsultants and their officers, directors, agents, and employees as "additional insureds" under the policies.

The CONTRACTOR shall purchase and maintain the following insurance:

1. Workers' Compensation and Employer's Liability. This insurance shall protect the CONTRACTOR against all claims under applicable state workers' compensation laws. The CONTRACTOR shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a Workers' Compensation law. The CONTRACTOR shall require each Subcontractor similarly to provide Workers' Compensation Insurance for all of the latter's employees to be engaged in such work unless such employees are covered by the protection afforded by the CONTRACTOR's Workers' Compensation Insurance. In case any class of employees is not protected, under the Workers' Compensation Statute, the CONTRACTOR shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of its employees as are not otherwise protected. **The CONTRACTOR grants a waiver of any right to subrogation against the OWNER by virtue of the payment of any loss under such insurance.** This provision applies regardless of whether or not the OWNER has received a waiver of subrogation endorsement from the insurer.

Workers' Compensation: (under Paragraph 5.2C.1 of the General Conditions) as in accordance with AS 23.30.045:

- a. State: Statutory
- b. Applicable Federal (e.g., Longshore): Statutory

Note: If the WORK called for in the Contract Documents involves work in or on any navigable waters, the CONTRACTOR shall provide Workers' Compensation coverage which shall include coverage under the Longshore and Harbor Workers' Compensation Act, the Jones Act, and any other coverage required under Federal or State laws pertaining to workers in or on navigable waters.

a.	Employers Liability		
	Bodily Injury by Accident:	\$100,000.00	Each Accident
	Bodily Injury by Disease:	\$100,000.00	Each Employee
	Bodily Injury by Disease:	\$500,000.00	Policy Limit

1. CONTRACTOR agrees to waive all rights of subrogation against the OWNER for WORK performed under contract.

- 2. If CONTRACTOR directly utilizes labor outside of the State of Alaska in the prosecution of the WORK, "Other States" endorsement shall be required as a condition of the contract.
- 2. Commercial General Liability (CGL), including products and completed operations, property damage, bodily injury and personal and advertising injury, with limits no less than \$1,000,000 each occurrence and \$2,000,000 aggregate. (under Paragraph 5.2C.2 of the General Conditions) **This insurance policy is to contain, or be endorsed to contain, additional insured status for the CBJ, its officers, officials, employees, and volunteers.** If Additional insured status is provided in the form of an endorsement to the Contractor's insurance, the endorsement shall be at least as broad as ISO Form CG 20 10 11 85 or **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 forms if later revisions used).
- 3. Commercial Automobile Liability: (under Paragraph 5.2C.3 of the General Conditions) including Owned, Hired, and Non-Owned Vehicles:

Combined Single Limit, Bodily Injury and Property Damage \$1,000,000.00

This insurance policy is to contain, or be endorsed to contain, additional insured status for the CBJ, its officers, officials, employees, and volunteers The CONTRACTOR shall require each Subcontractor similarly to provide Commercial Automobile Liability Insurance for all of the latter's employees to be engaged in such WORK unless such employees are covered by the protection afforded by the CONTRACTOR's Commercial Automobile Liability Insurance.

Add the following paragraphs:

- C. Builder's Risk: CONTRACTOR is not required to obtain a Builder's Risk insurance policy for this project. The OWNER carries Builder's Risk insurance. If a Builder's Risk claim is filed for this project, the CONTRACTOR will we responsible for the first \$10,000 of the policy's deductible, and the OWNER will be responsible for the remaining deductible.
- D. All Subcontractors are required to secure and maintain the insurance coverages listed above, unless otherwise noted.
- E. If the CONTRACTOR maintains higher limits than the minimums shown above, the OWNER requires and shall be entitled to coverage for the higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the OWNER.
- F. Policies shall also specify insurance provided by CONTRACTOR will be considered primary and not contributory to any other insurance available to the OWNER.
- G. Should any of the policies described above be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

SECTION 00800 - SUPPLEMENTARY GENERAL CONDITIONS

SGC 6.5 CONCERNING SUBCONTRACTORS, SUPPLIERS, AND OTHERS. Add the following:

B. The CONTRACTOR shall perform not less than 25% of the WORK with its own forces (i.e., without subcontracting). The 25% requirement shall be understood to mean that the CONTRACTOR shall perform, with its own organization, WORK amounting to at least 25% of the original contract amount. The 25% requirement will be calculated based upon the total of the subcontract amounts submitted for Contract Award, and any other information requested by the OWNER from the apparent low Bidder.

SGC 6.5 CONCERNING SUBCONTRACTORS, SUPPLIERS, AND OTHERS, *Add* the following paragraph:

C. CONTRACTOR must pay Subcontractors and/or Suppliers within 30 days of receiving payment from the OWNER, if that payment was made for Work performed by the Subcontractor and/or materials received. Failure to pay Subcontractors within 30 days of receiving payment from which Subcontractor and/or Supplier is to be paid may result in the OWNER initiating debarment proceedings as prescribed in the City and Borough of Juneau Purchasing Code. *The 30 day City and Borough of Juneau requirement does not supersede AS 36.90.210*.

SGC 6.6 PERMITS, *Add* the following paragraph:

D. Contractor is responsible for obtaining a Hot Works permit from the CBJ Permit Center, if performing work which requires such a permit. Work requiring a Hot Works Permit includes but is not limited to the following: cutting, welding, Thermit welding, brazing, soldering, grinding, thermal spraying, thawing pipe, installation of torch-applied roof systems or any other similar activity.

SGC 11.1 CHANGE OF CONTRACT PRICE. *Change* paragraph C., subparagraph 2, to read:

2. By mutual acceptance of a lump sum, which includes a maximum allowance for overhead and profit in accordance with Paragraph 11.4.

SGC 14.3 APPLICATION FOR PROGRESS PAYMENT. Paragraph D.

D. The Value of Materials Stored at the site shall be an amount equal to 85%.

SGC 14.9 FINAL PAYMENT AND ACCEPTANCE. Add the following paragraph:

C. Prior to the final payment the CONTRACTOR shall contact the Alaska Department of Labor and Workforce Development (ADOL) and provide the OWNER with clearance from the ADOL for the CONTRACTOR and all Subcontractors that have worked on the Project. This clearance shall indicate that all Employment Security Taxes have been paid. A sample form for this purpose is at the end of this section. The CONTRACTOR shall also submit a "NOTICE OF COMPLETION OF PUBLIC WORKS" signed by ADOL.

SGC 16.8 CERTIFIED PAYROLLS. *Change* paragraph A. to read:

A. All CONTRACTORs or Subcontractors who perform work on a public construction contract for the OWNER shall file a certified payroll with Alaska Department of Labor. See Section 00830 - Alaska Labor Standards, Reporting, and Prevailing Wage Rate Determination.

Department of Labor and Workforce Development ASKA



of

GOVERNOR MICHAEL J. DUNLEAVY

Division of Employment and Training Services Employment Security Tax

> P.O. Box 115509 Juneau, AK 99811-5509 Relay Alaska (in state): (800) 770-8973 or 7.1.1 Relay Alaska (out of state): (800) 770-8255 Toll free: (888) 448-2937 Phone: (907) 465-2787 Fax: (907) 465-2374

Tax Clearance Request Form for Contractors

Date of request:	
Business name of the contractor a Tax Clearance is being requested for:	
Business address:	
Business contact phone number:	
Federal Identification Number:	
Alaska Employer Account Number:	
Specific time period a tax clearance is being requested for (i.e. beginning and ending date of	
Subcontract project name:	
Name and address of the person this Tax Clearance is to be returned to:	
Comments or additional information:	
For agency use only:	
Tax Clearance is granted	
Tax Clearance is not granted (please have employer contact the department)	
No account on file, liability unknown (please have employer contact the department)	
Employer has stated no employees, Tax Clearance not required.	
Agency representative signature:	Date:
Agency representative title:	
We are an equal opportunity employer/program. Auxiliary aids and services are	available upon request to individuals with

disabilities. labor.alaska.gov/estax

END OF SECTION

SECTION 00830 - ALASKA LABOR STANDARDS, REPORTING, AND PREVAILING WAGE RATE DETERMINATION

State of Alaska, Department of Labor, Laborers' and Mechanics' Minimum Rates of Pay, AS 36.05.010 and AS 36.05.050, Wage and Hour Administration Pamphlet No. 600, the latest edition published by the State of Alaska, Department of Labor inclusive, is provided in its entirety in SECTION 00830 – APPENDIX A.

The CONTRACTOR is responsible for contacting the Alaska Department of Labor to determine compliance with current regulations.

Correspondence regarding Title 36 requirements may be submitted electronically or paper copies can be submitted by mail. To submit Title 36 documents electronically, go to https://myalaska.state.ak.us/home/app. If filing electronically, submit certified payrolls to ADOL at the website above and email a copy of all certified payrolls to Greg Smith at the email address below. If Contractor elects to submit paper copies, they should be submitted to the physical addresses below.

Within 10 Days of "Notice of Award/Notice to Proceed" make a list of <u>all</u> Subcontractors. Include their name, address, phone, estimated subcontract amount, and estimated start and finish dates. Send this list to the Wage and Hour Section (contact information below).

Certified Payrolls must be submitted every two weeks. Before the second Friday, each CONTRACTOR and Subcontractor must file Certified Payrolls with Statements of Compliance for the previous two weeks. Indicate *"Start"* on your first payroll, and *"Final"* on your last payroll for this Project.

As part of the **final payment request package**, CONTRACTOR must submit a "NOTICE OF COMPLETION OF PUBLIC WORKS" form signed by ADOL personnel.

Contact Information:

Wage and Hour Section State of Alaska Department of Labor and Workforce Development Labor Standards and Safety Division and Wage and Hour Administration P.O. Box 11149 Juneau, AK 99811-1149 907-465-4842 http://labor.state.ak.us/lss/home.htm

Greg Smith, Contract Administrator City and Borough of Juneau

155 S. Seward Street Juneau, AK 99801 (907) 586-0800 ext. 4194 Greg.Smith@juneau.org

SECTION 00830 APPENDIX A

Laborers' & Mechanics' Minimum Rates of Pay

Pamphlet 600 Effective April 1, 2021

PAMPHLET No. 600

Title 36. Public Contracts AS 36.05

Laborers' and Mechanics' MINIMUM RATES OF PAY

Effective April 1, 2021 Issue 42

DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

Wage and Hour Administration

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Department of Labor and Workforce Development

Office of the Commissioner

Post Office Box 111149 Juneau, Alaska 99811 Main: 907.465.2700 fax: 907.465-2784

April 1, 2021

TO ALL CONTRACTING AGENCIES:

At the Alaska Department of Labor and Workforce Development, our goal is putting Alaskans to work. This pamphlet is designed to help contractors awarded public construction contracts understand the most significant laws of the State of Alaska pertaining to prevailing wage.

This pamphlet identifies current prevailing wage rates for public construction contracts (any construction projects awarded for the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change in a subsequent determination, please be sure you are using the appropriate rates. The rates published in this edition become effective April 1, 2021.

The prevailing wage rates contained in this pamphlet are applicable to public construction projects with a final bid date of April 11, 2021, or later. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **The 24-month period begins on the date the prime contract is awarded.** Upon expiration of the initial 24-month period, the <u>latest</u> wage rates issued by the department shall become effective for a subsequent 24-month period or until the original contract is completed, whichever occurs first. This process shall be repeated until the original contract is completed.

The term "original contract" means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures.

If a higher federal rate is required due to partial federal funding or other federal participation, the higher rate must be paid.

For additional copies of this pamphlet go to: http://labor.state.ak.us/lss/pamp600.htm

For questions regarding prevailing wage or employment preference requirements, please contact the nearest Wage and Hour office. These offices are listed on Page x.

Sincerely,

anke >

Dr. Tamika L. Ledbetter Commissioner

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Table of Contents

Excerpts from Alaska Law

Sec. 36.05.005. Applicabilityiv
Sec. 36.05.010. Wage rates on public construction iv
Sec. 36.05.040. Filing schedule of employees, wages paid and other information iv
Sec. 36.05.045. Notice of work and completion; withholding of payment iv
Sec. 36.05.060. Penalty for violation of this chapterv
Sec. 36.05.070. Wage rates in specifications and contracts for public worksv
Sec. 36.05.080. Failure to pay agreed wagesv
Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contractsv
Sec. 36.05.900. Definition
Excerpts from Alaska Administrative Code
8 AAC 30.051. Purpose vi
8 AAC 30.052. Board and lodging; remote sites
8 AAC 30.054. Per diem instead of board and lodging vi
8 AAC 30.056. Alternative arrangement
8 AAC 30.900. General definitions (selected excerpts) vii
Additional Information
Per Diem vii
Laborer Classification Clarification
Apprentice Rates
Fringe Benefit Plans
Special Prevailing Wage Rate Determination ix
Alaska Employment Preference Informationix
Labor Standards and Safety Notice Requestsx
Debarment Listx
Wage Rates

Note to Readers: The statutes and administrative regulations listed in this publication were taken from the official codes, as of the effective date of the publication. However, there may be errors or omissions that have not been identified and changes that occurred after the publication was printed. This publication is intended as an informational guide only and is not intended to serve as a precise statement of the statutes and regulations of the State of Alaska. To be certain of current laws and regulations, please refer to the official codes.

EXCERPTS FROM ALASKA LAW

Sec. 36.05.005. Applicability.

This chapter applies only to a public construction contract that exceeds \$25,000.

Sec. 36.05.010. Wage rates on public construction.

A contractor or subcontractor who performs work on a public construction contract in the state shall pay not less than the current prevailing rate of wages for work of a similar nature in the region in which the work is done. The current prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development at least 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued by the department, the latest wage determination shall become effective for the next 24-month period or until the contract is completed, whichever occurs first. This process shall be repeated until the contract is completed.

Sec. 36.05.040. Filing schedule of employees, wages paid, and other information.

All contractors or subcontractors who perform work on a public construction contract for the state or for a political subdivision of the state shall, before the Friday of every second week, file with the Department of Labor and Workforce Development a sworn affidavit for the previous reporting period, setting out in detail the number of persons employed, wages paid, job classification of each employee, hours worked each day and week, and other information on a form provided by the Department of Labor and Workforce Development.

Sec. 36.05.045. Notice of work and completion; withholding of payment.

- (a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed \$5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.
- (b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.
- (c) A contracting agency
 - (1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that
 - (A) the primary contractor has complied with (a) and (b) of this section;
 - (B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and
 - (C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

- (2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.
- (d) The notice and filing fee required under (a) of this section may be filed after work has begun if
 - (1) The public construction contract is for work undertaken in immediate response to an emergency; and
 - (2) The notice and fees are filed not later than 14 days after the work has begun.
- (e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

Sec. 36.05.060. Penalty for violation of this chapter.

A contractor who violates this chapter is guilty of a misdemeanor and upon conviction is punishable by a fine of not less than \$100 nor more than \$1,000, or by imprisonment for not less than 10 days nor more than 90 days, or by both. Each day a violation exists constitutes a separate offense.

Sec. 36.05.070. Wage rates in specifications and contracts for public works.

- (a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under <u>AS 36.05.010</u>.
- (b) Repealed by §17 ch 142 SLA 1972.
- (c) A public construction contract under (a) of this section must contain provisions that
 - (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
 - (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
 - (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
 - (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
 - (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
 - (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

Sec. 36.05.080. Failure to pay agreed wages.

Every contract within the scope of <u>AS 36.05.070</u> shall contain a provision that if it is found that a laborer, mechanic, or field surveyor employed by the contractor or subcontractor has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the state or its political subdivision may, by written notice to the contractor, terminate the contractor's right to proceed with the work or the part of the work for which there is a failure to pay the required wages and to prosecute the work to completion by contract or otherwise, and the contractor's sureties are liable to the state or its political subdivision for excess costs for completing the work.

Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts.

- (a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under <u>AS 36.05.070</u>.
- (b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or

subcontractor on a public construction contract for the state or a political subdivision of the state until three years after the date of publication of the list. If the accrued payments withheld under the contract are insufficient to reimburse all the laborers, mechanics, or field surveyors with respect to whom there has been a failure to pay the wages required under <u>AS 36.05.070</u>, the laborers, mechanics, or field surveyors have the right of action or intervention or both against the contractor and the contractor's sureties conferred by law upon persons furnishing labor or materials, and in the proceedings it is not a defense that the laborers, mechanics, or field surveyors accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

Sec. 36.05.900. Definition.

In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

EXCERPTS FROM ALASKA ADMINISTRATIVE CODE

*****Notice:** Regulations relating to board and lodging and per diem went into effect on November 25, 2018. The new regulations are excerpted here***

8 AAC 30.051. Purpose. The purpose of 8 AAC 30.052 – 8 AAC 30.056 is to ensure that wages paid to laborers, mechanics, and field surveyors do not fall below the prevailing rate of pay.

8 AAC 30.052. Board and lodging; remote sites. (a) A contractor on a public construction project located 65 or more road miles from the international airport closest to the project area in either Fairbanks, Juneau, or Anchorage, or that is inaccessible by road in a two-wheel drive vehicle, shall provide adequate board and lodging to each laborer, mechanic, or field surveyor while the person is employed on the project. If commercial lodging facilities are not available, the contractor shall provide temporary lodging facilities. Lodging facilities must comply with all applicable state and federal laws. For a highway project, the location of the project is measured from the midpoint of the project.

(b) A contractor is not required to provide board and lodging:

(1) to a laborer, mechanic, or field surveyor who is a domiciled resident of the project area; or

(2) on a laborer, mechanic, or field surveyor's scheduled days off, when the person can reasonably travel between the project and the person's permanent residence; for the purposes of this paragraph, "scheduled day off" means a day in which a person does not perform work on-site, is not required to remain at or near the job location for the benefit of the contractor, and is informed of the day off at least seven days before the day off.(c) Upon a contractor's written request, the commissioner may waive the requirements of (a) of this section where:

(1) the project is inaccessible by road in a two-wheel drive vehicle, but the laborer, mechanic, or field surveyor can reasonably travel between the project and the person's permanent residence within one hour; or

(2) a laborer, mechanic, or field surveyor is not a domiciled resident of the project area, but has established permanent residence, with the intent to remain indefinitely, within 65 road miles of the project, or for a highway project, the mid-point of the project.

8 AAC 30.054. Per diem instead of board and lodging. (a) A contractor may pay a laborer, mechanic, or field surveyor per diem instead of providing board and lodging, when the following conditions are met:

(1) the department determines that per diem instead of board and lodging is an established practice for the work classification; the department shall publish and periodically revise its determinations in the pamphlet *Laborers' and Mechanics' Minimum Rates of Pay*;

(2) the contractor pays each laborer, mechanic, or field surveyor the appropriate per diem rate as published and periodically revised in the pamphlet *Laborers' and Mechanics' Minimum Rates of Pay*; and

(3) the contractor pays the per diem to each laborer, mechanic, or field surveyor on the same day that wages are paid.

(b) A contractor may not pay per diem instead of board and lodging on a highway project located

(1) west of Livengood on the Elliot Highway, AK-2;

(2) on the Dalton Highway, AK-11;

(3) north of milepost 20 on the Taylor Highway, AK-5;

(4) east of Chicken on the Top of the World Highway; or

(5) south of Tetlin Junction to the Alaska-Canada border on the Alaska Highway, AK-2.

8 AAC 30.056. Alternative arrangement. Upon a contractor's written request, the commissioner may approve an alternative board and lodging or per diem arrangement, provided

(1) the arrangement does not reduce the laborer, mechanic, or field surveyor's wages below the prevailing wage rate; and

(2) the laborer, mechanic, or field surveyor voluntarily enters into and signs the written arrangement; a labor organization representing laborers, mechanics, or field surveyors may enter into the written agreement on their behalf.

<u>8 AAC 30.900. General definitions</u> (selected excerpts only):

In this chapter and in AS 36

(22) "domiciled resident" means a person living within 65 road miles of a public construction project, or in the case of a highway project, the mid-point of the project, for at least 12 consecutive months prior to the award of the public construction project;

(23) "employed on the project" means the time period from the date the laborer, mechanic, or field surveyor first reports on-site to the project through the final date the person reports on-site to the project.

ADDITIONAL INFORMATION

PER DIEM

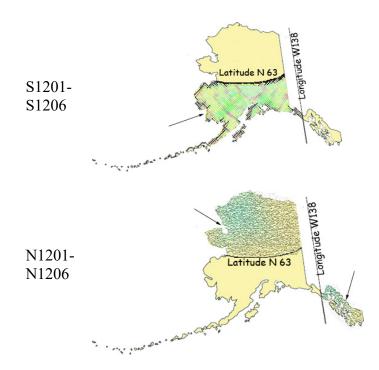
Notice: New regulations relating to board and lodging and per diem went into effect on November 25, 2018. The regulations provide a comprehensive set of requirements for the provision of board and lodging or per diem for workers on remote projects. Please refer to Alaska Administrative Code 8 AAC Chapter 30 and read the chapter carefully.

The Alaska Department of Labor and Workforce Development has determined that per diem is an established work practice for certain work classifications. These classifications are indicated throughout the Pamphlet by an asterisk (*) under the classification title. If all of the conditions of 8 AAC 30.054 are met, an employer may pay workers in these classifications per diem instead of providing board and lodging on a remote project.

Per Diem Rate: As of May 1st, 2019, the minimum per diem rate is \$100.00 per day, or part thereof, the worker is employed on the project. In the event that a contractor provides lodging facilities, but no meals, the department will accept a payment of \$48 per day for meals to meet the per diem requirements.

LABORER CLASSIFICATION CLARIFICATION

The laborer rates categorized in class code S1201-S1206 apply in one area of Alaska; the area that is south of N63 latitude and west of W138 Longitude. The laborer rates categorized in class code N1201-N1206 apply in two areas of Alaska; the Alaska areas north of N63 latitude and east of W138 longitude. The following graphic representations should assist with clarifying the applicable wage rate categories:



APPRENTICE RATES

Apprentice rates at less than the minimum prevailing rates may be paid to apprentices according to an apprentice program which has been registered and approved by the Commissioner of the Alaska Department of Labor and Workforce Development in writing or according to a bona fide apprenticeship program registered with the U.S. Department of Labor, Office of Apprenticeship Training. Any employee listed on a payroll at an apprentice wage rate who is not registered as above shall be paid the journeyman prevailing minimum wage in that work classification. Wage rates are based on prevailing crew makeup practices in Alaska and apply to work performed regardless of either the quality of the work performed by the employee or the titles or classifications which may be assigned to individual employees.

FRINGE BENEFIT PLANS

Contractors/subcontractors may compensate fringe benefits to their employees in any one of three methods. The fringe benefits may be paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Where fringe benefits are paid into approved plans, funds, or programs including union trust funds, the payments must be contributed at least monthly. If contractors submit their own payroll forms and are paying fringe benefits into approved plans, funds, or programs, the employer's certification must include, in addition to those requirements of <u>8 AAC 30.020(c)</u>, a statement that fringe benefit payments have been or will be paid at least monthly. Contractors who pay fringe benefits to a plan must ensure the plan is one approved by the Internal Revenue Service and that the plan meets the requirements of <u>8 AAC 30.025</u> (eff. 3/2/08) in order for payments to be credited toward the prevailing wage obligation.

SPECIAL PREVAILING WAGE RATE DETERMINATION

Special prevailing wage rate determinations may be requested for special projects or a special worker classification if the work to be performed does not conform to traditional public construction for which a prevailing wage rate has been established under <u>8 AAC 30.050(a)</u> of this section. Requests for special wage rate determinations must be in writing and filed with the Commissioner <u>at least 30 days before the award of the contract</u>. An applicant for a special wage rate determination shall have the responsibility to support the necessity for the special rate. An application for a special wage rate determination filed under this section must contain:

- (1) a specification of the contract or project on which the special rates will apply and a description of the work to be performed;
- (2) a brief narrative explaining why special wage rates are necessary;
- (3) the job class or classes involved;
- (4) the special wage rates the applicant is requesting, including survey or other relevant wage data to support the requested rates;
- (5) the approximate number of employees who would be affected; and
- (6) any other information which might be helpful in determining if special wage rates are appropriate.

Requests made pursuant to the above should be addressed to:

Director Alaska Department of Labor and Workforce Development Labor Standards and Safety Division Wage and Hour Administration P.O. Box 111149 Juneau, AK 99811-1149 -or-Email: statewide.wagehour@alaska.gov

EMPLOYMENT PREFERENCE INFORMATION

In October 2019, the Alaska Attorney General issued a formal opinion stating that the Alaska Statutes 36.10.150 of the State's 90% Employment Preference law, also known as the Alaska Resident Hire law, violates both the U.S. and Alaska Constitutions. As a result, the state has stopped all enforcement activity. A copy of the Attorney General opinion is found here:

http://law.alaska.gov/pdf/opinions/opinions 2019/19-005 AK-hire.pdf

Alaska Department of Labor and Workforce Development Labor Standards and Safety Division Wage and Hour Administration Web site: http://labor.state.ak.us/lss/pamp600.htm

Anchorage

Juneau

1251 Muldoon Road, Suite 113 Anchorage, Alaska 99504-2098 Phone: (907) 269-4900

Email: statewide.wagehour@alaska.gov PO Box 111149 Juneau, Alaska 99811 Phone: (907) 465-4842

Email: statewide.wagehour@alaska.gov Fairbanks

Regional State Office Building 675 7th Ave., Station J-1 Fairbanks, Alaska 99701-4593 Phone: (907) 451-2886 Email: statewide.wagehour@alaska.gov

LABOR STANDARDS AND SAFETY NOTICE REQUESTS

If you would like to receive Wage and Hour Administration or Mechanical Inspection **regulation notices** or **publications information**, they are available via electronic mail, by signing up in the GovDelivery System, <u>https://public.govdelivery.com/accounts/AKDOL/subscriber/new</u> and selecting topics *LSS – Wage and Hour – Forms and Publications*, *LSS – Mechanical Inspection Regulations*, or *LSS – Wage and Hour Regulations*.

Publications are also available online at http://labor.alaska.gov/lss/home.htm

DEBARMENT LIST

<u>AS 36.05.090(b)</u> states that "the state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees."

A person appearing on the following debarment list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state for three years from the date of debarment.

Company Name

Debarment Expires

No companies are currently debarred.

Laborers' & Mechanics' Minimum Rates of Pay

Class Code Classification of Laborers & Mechanics	BHR H&V	V PEN	TRN	Other	Benefits	THR
Boilermakers						
*See per diem note on last page						
A0101 Boilermaker (journeyman)	47.03 8.57	17.02	1.90	VAC 3.50	SAF 0.34	78.36
Bricklayers & Blocklayers						
*See per diem note on last page						
A0201 Blocklayer	42.16 9.00	10.05	0.62	L&M 0.20		62.03
Bricklayer Marble or Stone Mason Refractory Worker (Firebrick, Plastic, Castable, and Gunite Refractory Applications) Terrazzo Worker Tile Setter						
A0202 Tuck Pointer Caulker	42.16 9.00	10.05	0.62	L&M 0.20		62.03
Cleaner (PCC)				L&M		
A0203 Marble & Tile Finisher	35.99 9.00	10.05	0.62	0.20		55.86
Terrazzo Finisher				L&M		
A0204 Torginal Applicator	40.10 9.83	8.50	0.55	0.15	0.87	60.00
Carpenters, Region I (North of 63 latitude) *See per diem note on last page						
N0301 Carpenter (journeyman)	38.34 10.08	3 15.23	1.10	L&M 0.10	SAF 0.10	64.95
Lather/Drywall/Acoustical						
Carpenters, Region II (South of N63 latitude) *See per diem note on last page						
S0301 Carpenter (journeyman)	38.34 10.08	3 15.77	1.10	L&M 0.10	SAF 0.10	65.49
Lather/Drywall/Acoustical						
Cement Masons *See per diem note on last page						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

	Masons						
*{							
	See per diem note on last page						
						L&M	
A0401	Group I, including:	39.38	8.70	11.80	1.43	0.10	61.41
	Application of Sealing Compound						
	Application of Underlayment						
	Building, General						
	Cement Finisher						
	Cement Mason (journeyman)						
	Concrete						
	Concrete Paving						
	Concrete Polishing						
	Concrete Repair						
	Curb & Gutter, Sidewalk						
	Curing of All Concrete						
	General Concrete Pour Tender						
	Grouting & Caulking of Tilt-Up Panels						
	Grouting of All Plates						
	Patching Concrete						
	Screed Pin Setter						
	Screeder or Rodder						
	Spackling/Skim Coating						
						L&M	
A0402 (Group II, including:	39.38	8.70	11.80	1.43	0.10	61.41
	Form Setter						
						L&M	
A0403 (Group III, including:	39.38	8.70	11.80	1.43		61.41
	Concrete Saw Cutter Operator (All Control Joints and Self-powered)						
	Curb & Gutter Machine						
	Floor Grinder Pneumatic Power Tools						
	Power Chipping & Bushing Sand Blasting Architectural Finish						
	Screed & Rodding Machine Operator						
	Troweling Machine Operator (all concrete surfaces)						
	Trowening Machine Operator (an concrete surfaces)					L&M	
A0404	Group IV, including:	39.38	8.70	11.80	1.43	0.10	61.41
	Acoustical or Imitation Acoustical Finish						
	Application of All Composition Mastic						
	Application of All Epoxy Material						
	Application of All Plastic Material						
	Finish Colored Concrete						
	Gunite Nozzleman						

Class Code Classification of Laborers & Mechanics	BHR H&W	PEN	TRN	Other Benefits	THR
Cement Masons					
*See per diem note on last page					
A0404 Group IV, including:	39.38 8.70	11.80	1.43	L&M 0.10	61.41
Hand Powered Grinder Preparing, scratching and browsing of all ceilings and walls, finished with terrazo or tile Tunnel Worker					
A0405 Group V, including:	39.38 8.70	11.80	1.43	L&M 0.10	61.41
Casting and finishing EIFS Systems Finishing of all interior and exterior plastering Fireproofing (Pryocrete, Cafco, Albi-Clad, sprayed fiberglass) Gypsum, Portland Cement Kindred material and products Operation and control of all types of plastering machines, including power tools and floats, used by the industry Overcoating and maintenance of interior/exterior plaster surfaces Plasterer Veneer plastering process (Rapid Plaster, U.S.G. "Imperial Systems", and Pabcoat Systems") Venetian plaster and color-integrated Italian/Middle-Eastern line plaster					
A0501 Baker/Cook	28.37 7.31	7.56		LEG	43.24
A0503 General Helper	25.07 7.31	7.56		LEG	39.94
Housekeeper Janitor Kitchen Helper					
A0504 Head Cook	28.97 7.31	7.56		LEG	43.84
A0505 Head Housekeeper	25.45 7.31	7.56		LEG	40.32
Head Kitchen Help					
Dredgemen *See per diem note on last page					

		L&M		
0601 Assistant Engineer	41.76 10.70 13.50 1.00		0.05	67.1
Craneman				
Electrical Generator Operator (primary pump/power barge/dredge)				
Engineer				
Welder				
0602 Assistant Mate (deckhand)	40.60 10.70 13.50 1.00	L&M 0.10	0.05	65.0
10002 Assistant Mate (decknand)	40.00 10.70 13.30 1.00	0.10	0.05	65.9
0.02 Eiroman	41 04 10 70 12 50 1 00	L&M	0.05	667
.0603 Fireman	41.04 10.70 13.50 1.00	0.10	0.05	66.3
	44.20, 10, 70, 12, 50, 1, 00	L&M	0.05	(0) (
.0605 Leverman Clamshell	44.29 10.70 13.50 1.00	0.10	0.05	69.6
		L&M	0 0 -	(7)
0606 Leverman Hydraulic	42.53 10.70 13.50 1.00	0.10	0.05	67.8
		L&M		
0607 Mate & Boatman	41.76 10.70 13.50 1.00	0.10	0.05	67.1
		L&M		
.0608 Oiler (dredge)	41.04 10.70 13.50 1.00	0.10	0.05	66.3
lectricians				
*See per diem note on last page				
		1.0.14	LEG	
.0701 Inside Cable Splicer	42.02 14.05 13.90 0.95	L&M 0.20	LEG 0.15	71.2
				/ 1.12
0702 Inside Journeyman Wireman, including:	41.69 14.05 14.14 0.95	L&M 0.20	LEG 0.15	71.1
· · · ·	1.07 11.03 11.11 0.75	0.20	0.15	/1.1
Technicians (including use of drones in electrical construction)		TON	LEC	
.0703 Power Cable Splicer	60.79 14.05 19.01 0.95	L&M 0.25	LEG 0.15	95.2
				,0.1
0704 Tele Com Cable Splicer	50.53 14.05 16.67 0.95		LEG 0.15	82.5
	00.00 11.00 10.07 0.90			02.0
.0705 Power Journeyman Lineman, including:	59.04 14.05 18.96 0.95	L&M 0.25	LEG 0.15	03 /
· · · ·	J7.04 14.0J 10.90 0.9J	0.23	0.13	93.4
Power Equipment Operator				
		1015	LEC	
Technician (including use of drones in electrical construction)		L&M	LEG	
Technician (including use of drones in electrical construction)	48.78 14.05 16.61 0.95			80.7
	48.78 14.05 16.61 0.95		0.15	80.7

Class Code Classification of Laborers & Mechanics

Dredgemen

Class Code	Classification of Laborers & Mechanics	BHR H&W P	EN TI	RN Other	Benefits	THR
Electric	ians					
*2	See per diem note on last page					
<u>A0707</u>	Straight Line Installer - Repairman	48.78 14.05 16	5.61 0.		LEG 0.15	80.74
A0708	Powderman	57.04 14.05 18	3.90 0.		LEG 0.15	91.34
A0710	Material Handler	26.57 13.76 5.	.30 0.		LEG 0.15	46.08
A0712	Free Trimmer Groundman	28.37 14.05 12	2.59 0.		LEG 0.15	55.46
<u>A0713</u>	Journeyman Tree Trimmer	37.30 14.05 12	2.86 0.		LEG 0.15	64.66
<u>A0714</u>	Vegetation Control Sprayer	40.85 14.05 12	2.97 0.		LEG 0.15	68.32
A0715	nside Journeyman Communications CO/PBX	40.27 14.05 13	.85 0.		LEG 0.15	69.47
	r Workers See per diem note on last page					
					I VAC	
A0802	Elevator Constructor	42.76 15.88 19	0.31 0.	.64 0.54	4.74	83.87
A0803	Elevator Constructor Mechanic	61.08 15.88 19	0.31 0.		VAC 6.78	104.23
<mark>Heat &</mark>	Frost Insulators/Asbestos Workers					
*2	See per diem note on last page					
A0902	Asbestos Abatement-Mechanical Systems	38.68 9.24 11	.01 1.	SAF 20 0.12		60.25
A0903	Asbestos Abatement/General Demolition All Systems	38.68 9.24 11	.01 1.	SAF 20 0.12		60.25
A0904]	insulator, Group II	38.68 9.24 11	.01 1.	SAF 20 0.12		60.25
A0905	Fire Stop	38.68 9.24 11	.01 1.	SAF 20 0.12		60.25
IronWo *S	orkers See per diem note on last page					
A1101	ronworkers, including:	38.87 9.51 24	.28 0.	L&N .74 0.20		73.84

Class Code Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other E	Benefits	THR
IronWorkers					
*See per diem note on last page					
			т е-м	LAE	
A1101 Ironworkers, including:	38.87 9.51 24.28	0.74	L&M 0.20	IAF 0.24	73.84
	20.07 9.01 21.20	0.71	0.20	0.21	75.0
Bender Operators					
Bridge & Structural					
Hangar Doors					
Hollow Metal Doors					
Industrial Doors					
Machinery Mover					
Ornamental					
Reinforcing					
Rigger					
Sheeter					
Signalman					
Stage Rigger					
Toxic Haz-Mat Work					
Welder					
			L&M	IAF	
A1102 Helicopter	39.87 9.51 24.28	0.74	0.20	0.24	74.84
Helicopter (used for rigging and setting)					
Tower (energy producing windmill type towers to include nacelle and					
blades)					
			L&M	IAF	
A1103 Fence/Barrier Installer	35.37 9.51 23.93	0.74	0.20	0.24	69.99
				LAR	
A1104 Guard Rail Layout Man	36.11 9.51 23.93	0.74	L&M 0.20	IAF 0.24	70.73
Allo4 Guaid Ran Layout Man	50.11 7.51 25.95	0.74	0.20	0.24	70.75
			L&M		
A1105 Guard Rail Installer	36.37 9.51 23.93	0.74	0.20	0.24	70.99
Laborers (The Alaska areas north of N63 latitude and east of W138 lo	ongitude)				
*See per diem note on last page					
			L&M	LEG	
N1201 Group I, including:	32.00 8.95 20.66	1.30	0.20	0.20	63.31
Asphalt Worker (shovelman, plant crew)					
Brush Cutter					
Camp Maintenance Laborer					
Carpenter Tender or Helper					
Choke Setter, Hook Tender, Rigger, Signalman					
Concrete Labor (curb & gutter, chute handler, curing, grouting,					
screeding)					
Crusher Plant Laborer					
Demolition Laborer					

Code	Classification of Laborers & Mechanics	
		_

Class

	S	BHR H&W PEN	TRN Other Benefits THR
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*See per diem note on last page					1 0 7 7	152	
01 Group I, including:	32.00	8.95	20.66	1.30	L&M 0.20	LEG 0.20	63.3
Ditch Digger							
Dumpman							
Environmental Laborer (hazard/toxic waste, oil spill)							
Fence Installer							
Fire Watch Laborer							
Flagman							
Form Stripper							
General Laborer							
Guardrail Laborer, Bridge Rail Installer							
Hydro-seeder Nozzleman							
Laborer, Building							
Landscaper or Planter							
Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
Material Handler							
Pneumatic or Power Tools							
Portable or Chemical Toilet Serviceman							
Pump Man or Mixer Man							
Railroad Track Laborer							
Sandblast, Pot Tender							
Saw Tender							
Slurry Work							
Steam Cleaner Operator							
Steam Point or Water Jet Operator							
Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
Tank Cleaning							
Utiliwalk & Utilidor Laborer							
Watchman (construction projects)							
Window Cleaner							
					L&M	LEG	
2 Group II, including:	33.00	8.95	20.66	1.30	0.20	0.20	64
Burning & Cutting Torch							
Cement or Lime Dumper or Handler (sack or bulk)							
Certified Erosion Sediment Control Lead (CESCL Laborer)							
Choker Splicer							
Chucktender (wagon, air-track & hydraulic drills)							

Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman,

vibratorman)

Culvert Pipe Laborer

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Environmental Laborer (asbestos, marine work)

Cured Inplace Pipelayer

Floor Preparation, Core Drilling

Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)								
*See per diem note on last page								
N1202 Group II, including:	33.00 8.95 20.66 1.30							

	Tioor Treparation, Core Drining								
	Foam Gun or Foam Machine Operator								
	Green Cutter (dam work)								
	Gunite Operator								
	Hod Carrier								
	Jackhammer/Chipping Gun or Pavement Breaker								
	Laser Instrument Operator								
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)								
	Mason Tender & Mud Mixer (sewer work)								
	Pilot Car								
	Pipelayer Helper								
	Plasterer, Bricklayer & Cement Finisher Tender								
	Powderman Helper								
	Power Saw Operator								
	Railroad Switch Layout Laborer								
	Sandblaster								
	Scaffold Building & Erecting								
	Sewer Caulker								
	Sewer Plant Maintenance Man								
	Thermal Plastic Applicator								
	Timber Faller, Chainsaw Operator, Filer								
	Timberman								
							L&M	LEG	
N1203	Group III, including:	3	3.90	8.95	20.66	5 1.30	0.20	0.20	65.21
	Bit Grinder								
	Camera/Tool/Video Operator								
	Guardrail Machine Operator								
	High Rigger & Tree Topper								
	High Scaler								
	Multiplate								
	Plastic Welding								
	Slurry Seal Squeegee Man								
	Traffic Control Supervisor								

N1204 Group IIIA

37.18 8.95 20.66 1.30 0.20 0.20 68.49

L&M LEG

BHR H&W PEN TRN Other Benefits THR

L&M

0.20

LEG

0.20 64.31

Asphalt Raker, Asphalt Belly Dump Lay Down

Welding Certified (in connection with laborer's work)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Page 8

Code	Classification	of Laborers &	& Mechanics

BHR H&W PEN TRN Other Benefits THR

*Se	e per diem note on last page							
1204 Gr	oup IIIA	37.18	8.95	20.66	1.30	L&M 0.20	LEG 0.20	68.4
D	rill Doctor (in the field)							
	riller (including, but not limited to wagon drills, air-track drills, /draulic drills)							
Pi	oneer Drilling & Drilling Off Tugger (all type drills)							
	pelayers							
	wederman (Employee Possessor)							
	orm Water Pollution Protection Plan Specialist (SWPPP Specialist) raffic Control Supervisor, DOT Qualified							
N1205 Gr	oup IV	21.57	8.95	20.66	1.30	0.20	0.20	52.8
Fi	nal Building Cleanup							
Pe	ermanent Yard Worker							
N1206 Gr	oup IIIB	40.97	6.24	20.66	1.30	L&M 0.20	LEG 0.20	69.:
D	riller (including, but not limited to wagon drills, air-track drills,							
•	/draulic drills)(over 5,000 hours)							
	ederal Powderman (Responsible Person in Charge)							
	rade Checking (setting or transferring of grade marks, line and grade,							
	PS, drones)							
	oneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 ours)							
	ake Hopper							
	(The area that is south of N63 latitude and west of W138 lon	<mark>oitude)</mark>						
	e per diem note on last page	gitude)						
						L&M	LEG	
5 1201 Gr	oup I, including:	32.00	8.95	20.66	1.30	0.20	0.20	63.3
A	sphalt Worker (shovelman, plant crew)							
	rush Cutter							
Ca	amp Maintenance Laborer							
Ca	arpenter Tender or Helper							
Cl	hoke Setter, Hook Tender, Rigger, Signalman							
	oncrete Labor (curb & gutter, chute handler, curing, grouting,							
	reeding)							
	rusher Plant Laborer							
	emolition Laborer							
	itch Digger							
	umpman							
	nvironmental Laborer (hazard/toxic waste, oil spill)							
Fe	ence Installer							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Code	Classification of Laborers & Mechanics	BHR	H&W	' PEN	TRN	Other]	Benefits	THR			
	Laborers (The area that is south of N63 latitude and west of W138 longitude)										
×	*See per diem note on last page										
						L&M	LEG				
S1201	Group I, including:	32.00	8.95	20.66	1.30	0.20	0.20	63.31			
	Fire Watch Laborer										
	Flagman										
	Form Stripper										
	General Laborer										

Guardrail Laborer, Bridge Rail Installer Hydro-seeder Nozzleman Laborer, Building Landscaper or Planter Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work) Material Handler Pneumatic or Power Tools Portable or Chemical Toilet Serviceman Pump Man or Mixer Man Railroad Track Laborer Sandblast, Pot Tender Saw Tender Slurry Work Steam Cleaner Operator Steam Point or Water Jet Operator Storm Water Pollution Protection Plan Worker (SWPPP Worker erosion and sediment control Laborer) Tank Cleaning Utiliwalk & Utilidor Laborer Watchman (construction projects) Window Cleaner

S1202 Group II, including:

Class

L&M LEG 33.00 8.95 20.66 1.30 0.20 0.20 64.31

Burning & Cutting Torch Cement or Lime Dumper or Handler (sack or bulk) Certified Erosion Sediment Control Lead (CESCL Laborer) Choker Splicer Chucktender (wagon, air-track & hydraulic drills) Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman) Culvert Pipe Laborer Cured Inplace Pipelayer Environmental Laborer (asbestos, marine work) Floor Preparation, Core Drilling Foam Gun or Foam Machine Operator

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class	
Code	Classification of Laborers & Mechanics

	See per diem note on last page							
1202	Group II, including:	33.00	8.95	20.66	1.30	L&M 0.20	LEG 0.20	64.3
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							
	Jackhammer/Chipping Gun or Pavement Breaker							
	Laser Instrument Operator							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)							
	Mason Tender & Mud Mixer (sewer work)							
	Pilot Car							
	Pipelayer Helper							
	Plasterer, Bricklayer & Cement Finisher Tender							
	Powderman Helper							
	Power Saw Operator							
	Railroad Switch Layout Laborer							
	Sandblaster							
	Scaffold Building & Erecting							
	Sewer Caulker							
	Sewer Plant Maintenance Man							
	Thermal Plastic Applicator							
	Timber Faller, Chainsaw Operator, Filer							
	Timberman							
1203	Group III, including:	33.90	8.95	20.66	1.30	L&M 0.20	LEG 0.20	65.2
	Bit Grinder							
	Camera/Tool/Video Operator							
	Guardrail Machine Operator							
	High Rigger & Tree Topper							
	High Scaler							
	Multiplate							
	Plastic Welding							
	Slurry Seal Squeegee Man							
	Traffic Control Supervisor							
	Welding Certified (in connection with laborer's work)							
	weiding certified (in connection with laborer's work)					L&M	LEG	
1204	Group IIIA	37.18	8.95	20.66	1.30	0.20	0.20	68.4
	*			-				
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field) Driller (including, but not limited to wagon drills, air-track drills,							
	Driller (including, but not limited to wagon drills, air track drills							

Class Code	Classification of Laborers & Mechanics	BHR H&W	PEN	TRN	Other H	Benefits	THR
	ers (The area that is south of N63 latitude and west of W138 lon	gitude)					
	See per diem note on last page						
<u>S1204</u>	Group IIIA	37.18 8.95	20.66	1.30	L&M 0.20	LEG 0.20	68.49
	Pipelayers Powderman (Employee Possessor) Storm Water Pollution Protection Plan Specialist (SWPPP Specialist) Traffic Control Supervisor, DOT Qualified				TON	LEC	
<u>S1205</u>	Group IV	21.57 8.95	20.66	1.30	L&M 0.20	0.20	52.88
	Final Building Cleanup Permanent Yard Worker						
S1206	Group IIIB	40.97 6.24	20.66	1.30	L&M 0.20	LEG 0.20	69.57
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours) Federal Powderman (Responsible Person in Charge) Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones) Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours) Stake Hopper						
Millwr							
	See per diem note on last page						
<u>A1251</u>	Millwright (journeyman)	40.77 10.08	12.28	1.10	L&M 0.40	0.05	64.68
<u>A1252</u>	Millwright Welder	41.77 10.08	12.28	1.10	L&M 0.40	0.05	65.68
Painte:	rs, Region I (North of N63 latitude)						
*	See per diem note on last page						
N1301	Group I, including:	34.19 8.71	14.30	1.08	L&M 0.07		58.35
	Brush General Painter Hand Taping Hazardous Material Handler Lead-Based Paint Abatement Roll						
N1302	Group II, including:	34.71 8.71	14.30	1.08	L&M 0.07		58.87

Class Code Classification of Laborers &	d Mechanics	BHR H&W PEN TRN Other B	enefits THF
Painters, Region I (North of N63 lati			
*See per diem note on last page			
		L&M	
N1302 Group II, including:		34.71 8.71 14.30 1.08 0.07	58.8
Bridge Painter			
Epoxy Applicator			
General Drywall Finisher			
Hand/Spray Texturing			
Industrial Coatings Specialist			
Machine/Automatic Taping			
Pot Tender			
Sandblasting			
Specialty Painter			
Spray			
Structural Steel Painter			
Wallpaper/Vinyl Hanger			
N1304 Group IV, including:		39.80 8.71 17.71 1.05 0.05	67.3
Glazier			
Storefront/Automatic Door Mech	ania		
Storefront/Automatic Door Meen	lame		
N1305 Group V, including:		28.63 8.71 5.02 0.83 0.07	43.20
Carpet Installer			
Floor Coverer			
Heat Weld/Cove Base			
Linoleum/Soft Tile Installer			
Painters, Region II (South of N63 lat	litude)		
*See per diem note on last page			
		L&M	
S1301 Group I, including :		31.33 8.71 15.15 1.08 0.07	56.34
Brush			
General Painter			
Hand Taping			
Hazardous Material Handler			
Lead-Based Paint Abatement			
Roll			
Spray			
Spray		L&M	
S1302 Group II, including :		32.58 8.71 15.15 1.08 0.07	57.5
General Drywall Finisher			
Hand/Spray Texturing			
Machine/Automatic Taping			

Class Code Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits THR
Painters, Region II (South of N63 latitude)	
*See per diem note on last page	
	L&M
S1302 Group II, including :	32.58 8.71 15.15 1.08 0.07 57.59
Wallpaper/Vinyl Hanger	
() unpupol, (mj. Hunger	L&M
S1303 Group III, including :	32.68 8.71 15.15 1.08 0.07 57.69
Bridge Painter	
Epoxy Applicator	
Industrial Coatings Specialist	
Pot Tender	
Sandblasting	
Specialty Painter	
Structural Steel Painter	
	L&M
S1304 Group IV, including:	40.01 8.71 16.75 1.08 0.07 66.62
Glazier	
Storefront/Automatic Door Mechanic	
	L&M
S1305 Group V, including:	28.63 8.71 5.02 0.83 0.07 43.26
Carpet Installer	
Floor Coverer	
Heat Weld/Cove Base	
Linoleum/Soft Tile Installer	
Piledrivers	
*See per diem note on last page	
See per diem note on last page	
A1401 Diladuissan	L&M IAF 38.34 10.08 15.23 1.10 0.10 0.10 64.95
A1401 Piledriver	38.34 10.08 15.23 1.10 0.10 0.10 64.95
Assistant Dive Tender	
Carpenter/Piledriver	
Rigger	
Sheet Stabber	
Skiff Operator	
A1402 Piledriver-Welder/Toxic Worker	L&M IAF 39.34 10.08 15.23 1.10 0.10 0.10 65.95
	L&M IAF
A1403 Remotely Operated Vehicle Pilot/Technician	42.65 10.08 15.23 1.10 0.10 0.10 69.26
Single Atmosphere Suit, Bell or Submersible Pilot	
	L&M IAF
A1404 Diver (working) **See note on last page	82.45 10.08 15.23 1.10 0.10 0.10 109.06

Class Code Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits THR
Piledrivers	
*See per diem note on last page	
A1405 Diver (standby) **See note on last page	L&M IAF 42.65 10.08 15.23 1.10 0.10 0.10 69.26
A1406 Dive Tender **See note on last page	L&M IAF 41.65 10.08 15.23 1.10 0.10 0.10 68.26
A1407 Welder (American Welding Society, Certified Welding Inspector)	L&M IAF 43.90 10.08 15.23 1.10 0.10 0.10 70.51
Plumbers, Region I (North of N63 latitude) *See per diem note on last page	
N1501 Journeyman Pipefitter	L&M S&L 41.91 11.25 17.20 1.50 0.65 72.51
Plumber Welder	
Plumbers, Region II (South of N63 latitude) *See per diem note on last page	
S1501 Journeyman Pipefitter	L&M 41.00 11.13 15.02 1.55 0.20 68.90
Plumber Welder	
Plumbers, Region IIA (1st Judicial District) *See per diem note on last page	
X1501 Journeyman Pipefitter	L&M 38.82 13.37 11.75 2.50 0.24 66.68
Plumber Welder	
Power Equipment Operators *See per diem note on last page	
A1601 Group I, including:	L&M 42.53 10.70 13.50 1.00 0.10 0.05 67.88
Asphalt Roller: Breakdown, Intermediate, and Finish Back Filler Barrier Machine (Zipper) Beltcrete with Power Pack & similar conveyors Bending Machine Boat Coxswain Bulldozer Cableways, Highlines & Cablecars	
Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancem	ent fund: LEG=legal fund: L&M=labor/management fund: PEN=pens

BHR H&W PEN TRN Other Benefits THR

Power Equipment Operators

*See per diem note on last page

Group I, including:	42.53 10.70 13.5	0 1.00	L&M 0.10	0.05	67.88
Cleaning Machine					
Coating Machine					
Concrete Hydro Blaster					
Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))					
(a) Hydralifts or Transporters, (all track or truck type)					
(b) Derricks					
(c) Overhead					
Crushers					
Deck Winches, Double Drum					
Ditching or Trenching Machine (16 inch or over)					
Drag Scraper, Yarder, and similar types					
Drilling Machines, Core, Cable, Rotary and Exploration					
Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb & Gutter Machine					
Grade Checker and/or Line and Grade including Drone					
Helicopters					
Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle, Rollagon, Bargecable, Nodwell, & Snow Cat					
Hydro Ax, Feller Buncher & similar					
Hydro Excavation (Vac-Truck and Similar)					
Loaders (2 1/2 yards through 5 yards, including all attachments):					
(a) Forklifts (with telescopic boom & swing attachment)					
(b) Front End & Overhead, (2-1/2 yards through 5 yards)					
(c) Loaders, (with forks or pipe clamp)					
(d) Loaders, (elevating belt type, Euclid & similar types)					
Material Transfer Vehicle (Elevating Grader, Pickup Machine, and similar types)					
Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer					
Micro Tunneling Machine					
Mixers: Mobile type with hoist combination					
Motor Patrol Grader					
Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill Operator and/or Shield					
Off-Road Hauler (including Articulating and Haul Trucks)					
Operator on Dredges					
Piledriver Engineer, L.B. Foster, Puller or similar paving breaker					
Plant Operator (Asphalt & Concrete)					
Power Plant, Turbine Operator 200 k.w & over (power plants or					
combination of power units over 300 k.w.)					

Class Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other B	Benefits	THR
Power 1	Equipment Operators					
*	See per diem note on last page					
				L&M		
A1601	Group I, including:	42.53 10.70 13.50	1.00	0.10	0.05	67.88
	Remote Controlled Equipment					
	Scraper (through 40 yards)					
	Service Oiler/Service Engineer					
	Shot Blast Machine					
	Shovels, Backhoes, Excavators with all attachments, and Gradealls (3					
	yards & under)					
	Sideboom (under 45 tons)					
	Sub Grader (Gurries & similar types)					
	Tack Tractor					
	Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter					
	Wate Kote Machine					
				L&M		
A1602	Group IA, including:	44.29 10.70 13.50	1.00	0.10	0.05	69.64
	Camera/Tool/Video Operator (Slipline)					
	Certified Welder, Electrical Mechanic, Camp Maintenance Engineer,					
	Mechanic (over 10,000 hours)					
	Cranes (over 45 tons or 150 feet including jib & attachments)					
	(a) Clamshells & Draglines (over 3 yards)					
	(b) Tower Cranes					
	Licensed Water/Waste Water Treatment Operator					
	Loaders (over 5 yards)					
	Motor Patrol Grader, Dozer, Grade Tractor (finish: when finishing to					
	final grade and/or to hubs, or for asphalt)					
	Power Plants (1000 k.w. & over)					
	Profiler, Reclaimer, and Roto-Mill					
	Quad					
	Scrapers (over 40 yards)					
	Screed					
	Shovels, Backhoes, Excavators with all attachments (over 3 yards)					
	Sidebooms (over 45 tons)					
	Slip Form Paver, C.M.I. & similar types					
	Topside (Asphalt Paver, Slurry machine, Spreaders, and similar types)			толя		
A1603	Group II, including:	41.76 10.70 13.50	1.00	L&M 0.10	0.05	67.11
11000			1.00		0.00	.,
	Boiler - Fireman					
	Cement Hogs & Concrete Pump Operator					
	Conveyors (except those listed in Group I)					
	Hoists on Steel Erection, Towermobiles & Air Tuggers					
	Horizontal/Directional Drill Locator					
	Locomotives, Rod & Geared Engines					

Class

Code Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits TH
Power Equipment Operators	
*See per diem note on last page	
	L&M
A1603 Group II, including:	41.76 10.70 13.50 1.00 0.10 0.05 67.1
* *	
Mixers	
Screening, Washing Plant	
Sideboom (cradling rock drill, regardless of size)	
Skidder Turnshing Mashings (under 16 inshas)	
Trenching Machines (under 16 inches)	
Water/Waste Water Treatment Operator	I O M
1604 Group III, including:	L&M 41.04 10.70 13.50 1.00 0.10 0.05 66.3
Noo4 Group III, including.	41.04 10.70 15.50 1.00 0.10 0.05 00.2
"A" Frame Trucks, Deck Winches	
Bombardier (tack or tow rig)	
Boring Machine	
Brooms, Power (sweeper, elevator, vacuum, or similar)	
Bump Cutter	
Compressor	
Farm Tractor	
Forklift, Industrial Type	
Gin Truck or Winch Truck (with poles when used for he	oisting)
Hoists, Air Tuggers, Elevators	
Loaders:	
(a) Elevating-Athey, Barber Greene & similar types	
(b) Forklifts or Lumber Carrier (on construction job site	es)
(c) Forklifts, (with tower)	
(d) Overhead & Front End, (under 2-1/2 yards)	
Locomotives: Dinkey (air, steam, gas & electric) Speed	lers
Mechanics, Light Duty	
Oil, Blower Distribution	
Posthole Digger, Mechanical	
Pot Fireman (power agitated)	
Power Plant, Turbine Operator, (under 200 k.w.)	
Pumps, Water	
Roller (other than Asphalt)	
Saws, Concrete	
Skid Hustler	
Skid Steer (with all attachments)	
Stake Hopper	
Straightening Machine	
Tow Tractor	
	L&M
1605 Group IV, including:	34.83 10.70 13.50 1.00 0.10 0.05 60.1

Class

Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
	Equipment Operators							
\$	*See per diem note on last page							
A1605	Group IV, including:	34.83	10.70	13.50	1.00	L&M 0.10	0.05	60.1
	Crane Assistant Engineer/Rig Oiler							
	Drill Helper							
	Parts & Equipment Coordinator							
	Spotter							
	Steam Cleaner							
	Swamper (on trenching machines or shovel type equipment)							
Roofe1	rs							
4	*See per diem note on last page							
						L&M		
A1701	Roofer & Waterproofer	44.62	12.75	3.91	0.81	0.10	0.06	62.2
						L&M		
A1702	Roofer Material Handler	31.23	12.75	3.91	0.81	0.10	0.06	48.8
Sheet]	Metal Workers, Region I (North of N63 latitude)							
\$	*See per diem note on last page							
*	*See per diem note on last page					L&M		
	*See per diem note on last page Sheet Metal Journeyman	48.64	11.50	14.11	1.65	L&M 0.12		76.02
	Sheet Metal Journeyman	48.64	11.50	14.11	1.65			76.02
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment	48.64	11.50	14.11	1.65		:	76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial food service equipment	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial food service equipment Manufacture, fabrication assembly, installation and alteration of all	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial food service equipment Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial food service equipment Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work Metal lavatory partitions Preparation of drawings taken from architectural and engineering plans	48.64	11.50	14.11	1.65			76.0
	Sheet Metal Journeyman Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work Fabrication and installation of heating, ventilation and air conditioning ducts and equipment Fabrication and installation of louvers and hoods Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial food service equipment Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work Metal lavatory partitions Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work	48.64	11.50	14.11	1.65			76.0

Code	Classification of Laborers & Mechanics

L&M

0.10

L&M

0.10

L&M

0.10

L&M

0.10

69.79

69.19

67.07

62.73

43.57 11.83 13.14 1.15

42.97 11.83 13.14 1.15

40.85 11.83 13.14 1.15

Sheet Metal Workers, Region II (South of N63 latitude)	
*See per diem note on last page	

S1801 Sheet Metal Journeyman	43.20 11.50 14.09 1.6	L&M 58 0.43	70.90
Air Balancing and duct cleaning of HVAC systems			
Brazing, soldering or welding of metals			
Demolition of sheet metal HVAC systems			
Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work			
Fabrication and installation of heating, ventilation and air conditioning ducts and equipment			
Fabrication and installation of louvers and hoods			
Fabrication and installation of sheet metal lagging			
Fabrication and installation of stainless steel commercial or industrial food service equipment			
Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work			
Metal lavatory partitions			
Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work			
Sheet Metal shelving			
Sheet Metal venting, chimneys and breaching			
Skylight installation			
orinkler Fitters			
*See per diem note on last page			
		L&M	
1901 Sprinkler Fitter	47.35 10.55 18.05 0.5	0.25	76.7
urveyors *See non diam note on last none			
*See per diem note on last page			
		L&M	
2001 Chief of Parties	45.16 11.83 13.14 1.1	5 0.10	71.3

A2004 Associate Party Chief (including Instrument Person & Head Chain Person)/Stake Hop/Grademan

A2006 Chain Person (for crews with more than 2 people)

A2003 Line & Grade Technician/Office Technician/GPS, Drones

ple) 36.51 11.83 13.14 1.15

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

A2002 Party Chief

Code	Classification of Laborers & Weenames	Dintint	••••			
Truck	Drivers					
	*See per diem note on last page					
					1.014	
A2101	Group I, including:	41.94 11	.83 13.14	1.15	L&M 0.10	68.16
	Air/Sea Traffic Controllers					
	Ambulance/Fire Truck Driver (EMT certified)					
	Boat Coxswain					
	Captains & Pilots (air & water)					
	Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)					
	Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 40 yards up to & including 60 yards					
	Helicopter Transporter					
	Liquid Vac Truck/Super Vac Truck					
	Material Coordinator or Purchasing Agent					
	Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)					
	Semi with Double Box Mixer					
	Tireman, Heavy Duty/Fueler					
	Water Wagon (250 Bbls and above)					
					L&M	
A2102	Group 1A including:	43.21 11	.83 13.14	1.15	0.10	69.43
	Dump Trucks (including rockbuggy, side dump, belly dump & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)					
	Jeeps (driver under load)					
	Lowboys, including tractor attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)					
					L&M	
A2103	Group II, including:	40.68 11	.83 13.14	1.15	0.10	66.90
	All Deltas, Commanders, Rollagons, & similar equipment					
	Batch Trucks (8 yards & up)					
	Batch Trucks (up to & including 7 yards)					
	Boom Truck/Knuckle Truck (over 5 tons)					
	Cacasco Truck/Heat Stress Truck					
	Construction and Material Safety Technician					
	Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 20 yards up to & including 40 yards					
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)					
	Mechanics					
	Oil Distributor Driver					
	Partsman					
	Ready-mix (up to & including 12 yards)					
	Stringing Truck					

Class

Code

Classification of Laborers & Mechanics

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

BHR H&W PEN TRN Other Benefits THR

Class Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other Benef	its THR
<mark>Truck</mark>	Drivers				
;	*See per diem note on last page				
				L&M	
A2103	Group II, including:	40.68 11.83 13.14	1.15	0.10	66.90
	Turn-O-Wagon or DW-10 (not self loading)				
	run-o-wagon or Dw-ro (not sen loading)			L&M	
A2104	Group III, including:	39.86 11.83 13.14	1.15	0.10	66.08
	Boom Truck/Knuckle Truck (up to & including 5 tons)				
	Dump Trucks (including rockbuggy, side dump, belly dump, & trucks				
	with pups) over 10 yards up to & including 20 yards				
	Expeditor (electrical & pipefitting materials)				
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame				
	manufactured rating 5 tons & under)				
	Greaser - Shop				
	Semi or Truck & Trailer				
	Thermal Plastic Layout Technician Traffic Control Technician				
	Trucks/Jeeps (push or pull)				
	Trucks/seeps (push of pun)			L&M	
A2105	Group IV, including:	39.28 11.83 13.14	1.15	0.10	65.50
	Air Cushion or similar type vehicle				
	All Terrain Vehicle				
	Buggymobile				
	Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment (over 5 tons)				
	Bus Operator (over 30 passengers)				
	Cement Spreader, Dry				
	Combination Truck-Fuel & Grease				
	Compactor (when pulled by rubber tired equipment)				
	Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) up to & including 10 yards				
	Dumpster				
	Expeditor (general)				
	Fire Truck/Ambulance Driver				
	Flat Beds, Dual Rear Axle				
	Foam Distributor Truck Dual Axle				
	Front End Loader with Fork				
	Grease Truck				
	Hydro Seeder, Dual Axle Hyster Operators (handling bulk aggregate)				
	Loadmaster (air & water operations)				
	Lumber Carrier				
	Ready-mix, (up to & including 7 yards)				
	Rigger (air/water/oilfield)				

Class Code	Classification of Laborers & Mechanics	BHR	H&W	/ PEN	TRN	Other I	Benefits	5 THR
<mark>Fruck</mark>	Drivers							
*	*See per diem note on last page							
						L&M		
A2105	Group IV, including:	39.28	11.83	13.14	1.15	0.10		65.5
	Tireman, Light Duty							
	Track Truck Equipment							
	Truck Vacuum Sweeper							
	Warehouseperson							
	Water Truck (Below 250 Bbls)							
	Water Truck (straight)							
	Water Wagon, Semi							
	8					L&M		
A2106	Group V, including:	38.52	11.83	13.14	1.15	0.10		64.7
	Buffer Truck							
	Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing Attachments (up to & including 5 tons)							
	Bus Operator (up to 30 passengers)							
	Farm Type Rubber Tired Tractor (when material handling or pulling wagons on a construction project)							
	Flat Beds, Single Rear Axle							
	Foam Distributor Truck Single Axle							
	Fuel Handler (station/bulk attendant)							
	Gear/Supply Truck							
	Gravel Spreader Box Operator on Truck							
	Hydro Seeders, Single axle							
	Pickups (pilot cars & all light-duty vehicles)							
	Rigger/Swamper							
	Tack Truck							
	Team Drivers (horses, mules, & similar equipment)							
Funne	el Workers, Laborers (The Alaska areas north of N63 latitude a	nd east	of W1	<mark>138 lo</mark> r	<mark>ıgitud</mark>	e)		
\$	*See per diem note on last page							
						L&M	LEC	
N2201	Group I, including:	35 20	8 95	20.66	1 30	0.20	0.20	66 5
	• •	55.20	0.75	20.00	1.50	0.20	0.20	00.0
	Brakeman							
	Mucker							
	Nipper							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker -							
	erosion and sediment control Laborer)							
	Topman & Bull Gang							
	Tunnel Track Laborer							
						L&M		
		26.20	0.05	00 00	1 20	0.00	0.20	67.6
N2202	Group II, including:	36.30	8.95	20.66	1.30	0.20	0.20	07.0

unnel Workers, Laborers (The Alaska areas north of N63 latitude an *See per diem note on last page				<u> </u>			
2202 Group II, including:	36.30	8.95	20.66	1.30	L&M 0.20	LEG 0.20	67.6
Certified Erosion Sediment Control Lead (CESCL Laborer)							
Concrete Laborer							
Floor Preparation, Core Drilling							
Jackhammer/Chipping Gun or Pavement Breaker							
Laser Instrument Operator							
Nozzlemen, Pumpcrete or Shotcrete							
Pipelayer Helper							
	27.20	0.07	20.00	1.00	L&M	-	(0)
2203 Group III, including:	37.29	8.95	20.66	1.30	0.20	0.20	68.
Miner							
Retimberman							
					L&M	LEG	
2204 Group IIIA, including:	40.90	8.95	20.66	1.30	0.20	0.20	72.
Asphalt Raker, Asphalt Belly Dump Lay Down							
Drill Doctor (in the field)							
Driller (including, but not limited to wagon drills, air-track drills,							
hydraulic drills)							
Pioneer Drilling & Drilling Off Tugger (all type drills)							
Pipelayer							
Powderman (Employee Possessor)							
Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)							
Traffic Control Supervisor, DOT Qualified							
	45.07	() (20.00	1.20	L&M	LEG	70
2206 Group IIIB, including:	45.07	6.24	20.66	1.30	0.20	0.20	73.
Driller (including, but not limited to wagon drills, air-track drills,							
hydraulic drills)(over 5,000 hours)							
Federal Powderman (Responsible Person in Charge)							
Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)							
Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)							
Stake Hopper							
unnel Workers, Laborers (The area that is south of N63 latitude and	west o	f W1	38 long	vitude			
*See per diem note on last page					,		
					L&M	LEG	
2201 Group I, including:	35.20	8.95	20.66	1.30	0.20	0.20	66.
					-	-	
Brakeman							

Code Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

See per diem note on last page							
					L&M	LEG	
Group I, including:	35.20	8.95	20.66	1.30	0.20	0.20	66.5
Nipper							
Storm Water Pollution Protection Plan Worker (SWPPP Worker -							
,							
Tunnel Track Laborer					T <i>Q</i> .M	LEC	
Group II, including:	36.30	8.95	20.66	1.30	0.20	0.20	67.6
Burning & Cutting Torch							
Certified Erosion Sediment Control Lead (CESCL Laborer)							
Concrete Laborer							
Floor Preparation, Core Drilling							
Jackhammer/Chipping Gun or Pavement Breaker							
1							
· · · · ·							
Pipelayer Helper					TON	LEC	
Group III, including:	37.29	8.95	20.66	1.30	0.20	0.20	68.6
Miner							
Retimberman							
Group IIIA, including:	40.90	8.95	20.66	1.30	0.20	0.20	72.2
Asphalt Raker, Asphalt Belly Dump Lay Down							
Drill Doctor (in the field)							
Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)							
Pioneer Drilling & Drilling Off Tugger (all type drills)							
Pipelayer							
Powderman (Employee Possessor)							
Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)							
Traffic Control Supervisor, DOT Qualified							
Group IIIB, including:	45.07	6.24	20.66	1.30	L&M 0.20	LEG 0.20	73.6
Driller (including, but not limited to wagon drills, air-track drills,							
GPS, drones)							
Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)							
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Class Code Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits THR
Tunnel Workers, Laborers (The area that is south of N63 lati *See per diem note on last page	tude and west of W138 longitude)
S2206 Group IIIB, including:	L&M LEG 45.07 6.24 20.66 1.30 0.20 0.20 73.67
Stake Hopper	
Tunnel Workers, Power Equipment Operators *See per diem note on last page	
A2207 Group I	L&M 46.78 10.70 13.50 1.00 0.10 0.05 72.13
A2208 Group IA	L&M 48.72 10.70 13.50 1.00 0.10 0.05 74.07
A2209 Group II	L&M 45.94 10.70 13.50 1.00 0.10 0.05 71.29
A2210 Group III	L&M 45.14 10.70 13.50 1.00 0.10 0.05 70.49
A2211 Group IV	L&M 38.31 10.70 13.50 1.00 0.10 0.05 63.66

* Per diem is an established practice for this classification. This means that per diem is an allowable alternative to board and lodging if all criteria are met. See 8 AAC 30.051-08 AAC 30.056, and the per diem information on page vii of this Pamphlet.

** Work in combination of classifications: Employees working in any combination of classifications within the diving crew (working diver, standby diver, and tender) in a shift are paid in the classification with the highest rate for a minimum of 8 hours per shift.

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pens fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Access to site.
 - 4. Coordination with occupants.
 - 5. Work restrictions.
 - 6. Specification and drawing conventions.
 - 7. Miscellaneous Provisions.
- B. Related Requirements:
 - 1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 **PROJECT INFORMATION**

- A. Project Identification: Mendenhall River Community School site and Playground Upgrades CBJ Contract No. BE 21-240.
 - Project Location:
 a. 9001 Mendenhall Loop Road, Juneau AK
- B. Owner: City and Borough of Juneau.
 - 1. Owner's Representative & CBJ Project Manager: Lisa EaganLagerquist 907-586-0893.
- C. Architect/Engineer: Sean Sjostedt, PND Engineers, Inc.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
 - 1. Work generally includes mobilization/demobilization, erosion and sediment control, demolition and disposal, clearing and grubbing, unclassified excavation, utilizing or disposing of excavated material, excavation dewatering as required, placement and compaction of base, subbase and usable excavated material, salvaging and placing

SECTION 011000 - SUMMARY

salvaged pea gravel, importing and placing new pea gravel, adjusting existing storm and sanitary sewer structures, connecting to existing storm sewer pipes and structures, installing new storm drain pipes and structures, cleaning existing storm drain structures, construction surveying, installing filter cloth, placing topsoil and seeding, installing underdrains, asphalt concrete pavement cutting and patching, installing playground equipment footings and OWNER-provided play equipment, installing "poured-in-place" fall protection surfacing, constructing concrete walks, miscellaneous grading, and site restoration to pre-construction conditions.

- B. Type of Contract:
 - 1. Project will be constructed under a single prime contract.

1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- B. Use of Site: Limit use of premises to work areas Do not disturb portions of premises beyond areas in which the Work is indicated.
 - 1. Contractor Staging Area and construction area: Owner shall make a portion of the work area available to the Contractor for material storage and parking.
 - 2. Driveways, Walkways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Users, Owner, Owner's employees and emergency vehicles at all times.
 - 3. Owner Occupancy: JSD intends to occupy the facility with a limited summer school program. JSD school programs will not use play areas shown on C102 and C104 but will use some of north play area and covered play structure. Contractor to coordinate with Owner regarding the Contractor storage and staging areas and appropriate temporary fencing to prevent access to Contractor work areas, especially work area shown on C103.
 - 4. Construction Debris: Construction debris shall be stored in dumpster or similar container when stored on the premises.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weather-tight condition throughout construction period. Repair damage caused by construction operations.
- D. Site Security: The Contractor shall be responsible for site security and protecting the construction area from theft, vandalism, and unauthorized entry during the construction period.

1.6 COORDINATION WITH OCCUPANTS

A. Owner Occupancy: Owner may occupy the portions of site and adjacent existing structures during the construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits from the school building at all times.

SECTION 011000 - SUMMARY

- 1. Limited school district staff and other personnel may occupy and use the building during the entire summer. Administrative staff will work in the building until 6/4/21 and the principal shall work until 6/15/21. Other occupancy of the building will be primarily for maintenance and cleaning activities.
- 2. JSD may occupy the facility with a limited summer school program.
- 3. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.
- 4. Teachers and other staff will begin professional development and move-in activities beginning August 11, 2021.
- 5. Students will return to school on Monday, August 16, 2021. No WORK will be allowed on or after this date during school hours.

1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 7:00 a.m. to 7:00 p.m., unless otherwise indicated.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than 72 hours in advance of proposed utility interruptions.
 - 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Controlled Substances: Use of tobacco products and controlled substances on Project site is not permitted.

1.8 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

SECTION 011000 - SUMMARY

- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.

1.9 MISCELLANEOUS PROVISIONS

- A. All references in specifications to Engineer and Architect shall be facilitated and coordinated with the CBJ Project Manager.
- B. All references in the specifications to Owner or Owner's representative shall mean CBJ Project Manager.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 **PROCEDURES**

- A. All alternates will be Additive Alternates.
- B. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- C. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- D. Execute accepted alternates under the same conditions as other work of the Contract.
- E. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

SECTION 012300 - ALTERNATES

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ADDITIVE ALTERNATES

- A. Alternate No. 1: Additional PIP Pre-K area.
 - 1. Work includes installing approximately 420 square feet "poured-in-place" fall protection surfacing in lieu of base course surfacing at a Pre-K Area location shown on the Drawings.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
 - 1. Section 016000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 ACTION SUBMITTALS

- A. Substitution Requests: Submit electronic pdf file document of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Substitution Request Form: Use CSI Form 13.1A or a similar form
 - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation cannot be provided.
 - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.

- c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
- d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
- e. Samples, where applicable or requested.
- f. Certificates and qualification data, where applicable or requested.
- g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
- h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
- i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
- j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
- k. Cost information, including a proposal of change, if any, in the Contract Sum.
- 1. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
- m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
- 3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 7 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
 - a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES

A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Substitution request is fully documented and properly submitted.
 - c. Requested substitution will not adversely affect Contractor's construction schedule.
 - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - e. Requested substitution is compatible with other portions of the Work.
 - f. Requested substitution has been coordinated with other portions of the Work.
 - g. Requested substitution provides specified warranty.
 - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Architect will consider requests for substitution if received within 30 days after the Notice to Proceed. Requests received after that time will not be considered.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
 - b. Requested substitution does not require extensive revisions to the Contract Documents.
 - c. Requested substitution is consistent with the Contract Documents and will produce indicated results.

SUBSTITUTION PROCEDURES

- d. Substitution request is fully documented and properly submitted.
- e. Requested substitution will not adversely affect Contractor's construction schedule.
- f. Requested substitution has received necessary approvals of authorities having jurisdiction.
- g. Requested substitution is compatible with other portions of the Work.
- h. Requested substitution has been coordinated with other portions of the Work.
- i. Requested substitution provides specified warranty.
- j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
 - 1. Section 012500 "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.
- C. Contractor fees shall not exceed fees defined in Section 00700 General Conditions, Article 11.4 Contractor Fees. This includes all WORK CHANGE PROPOSAL REQUESTS.

1.3 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Owner's Representative will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Work Change Proposal Requests issued, are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request or 10 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - e. Quotation Form: Use forms acceptable to Architect.
- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Owner's Representative.

CONTRACT MODIFICATION PROCEDURES

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

- 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
- 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
- 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
- 4. Include costs of labor and supervision directly attributable to the change.
- 5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- 6. Comply with requirements in Section 012500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
- 7. Proposal Request Form: Use form acceptable to Architect.

1.4 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Owner's Representative will issue a Change Order for signatures of Owner and Contractor.
- B. Owner will group approved Work Changes Proposal Request into a formal Change Order every three months for formal inclusion into the Construction Agreement.

1.5 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Owner's Representative may issue a Construction Change Directive on AIA Document G714 or a similar form. Construction Change Directive instructs Contractor to proceed with a change in the Work, when there is not time for a Work Change Proposal request or a lump sum cannot be agreed on for subsequent inclusion in a Change Order.
 - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

CONTRACT MODIFICATION PROCEDURES

SECTION 012900 – PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DLOCUMENTS

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

1.2 SUMMAY

- A. Section includes administrative provisions for submitting Schedule of Values and Pay Applications
- B. Related Requirements:
 - 1. Section 013100 "Project Management and Coordination" for requirements for submitting Pay Applications.
 - 2. Section 017700 "Closeout Procedures" for requirements for submitting final Pay Application.

1.3 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Architect at earliest possible date, but no later than 14 days before the date scheduled for submittal of initial Applications for Payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Name of Architect.
 - c. Architect's project number.
 - d. Contractor's name and address.
 - e. Date of submittal.

SECTION 012900 – PAYMENT PROCEDURES

- 2. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or Division.
 - b. Description of the Work.
 - c. Name of subcontractor, manufacturer, fabricator, or supplier.
 - d. Change Orders (numbers) that affect value.
 - e. Dollar value of the following, as a percentage of the Contract Sum to nearest onehundredth percent, adjusted to total 100 percent.
 - 1) Labor.
 - 2) Materials.
 - 3) Equipment.
 - 4) Work completed from previous application
 - 5) Work completed, This Period
 - 6) Materials presently stored
 - 7) Percent completed
 - 8) Balance to finish
- 3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents.
- 4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
- 5. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
- 6. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
- 7. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.
- C. Final Payment Submit final Application for Payment in conjunction with other closeout documentation as noted in SECTION 017700 "Closeout Procedures". Final payment shall be for no less than 5% of the contract total and will be released when all closeout documentation and actions are complete.

SECTION 012900 – PAYMENT PROCEDURES

1.4 APPLICATION AND CERTIFICATION FOR PAYMENT

A. Format and Content: Use AIA G702 Application and Certificate for Payment or equal.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Informational Submittals.
 - 2. General coordination procedures.
 - 3. Requests for Information (RFIs).
 - 4. Design clarifications (DC's)
 - 5. Project meetings.
 - 6. Project Management Software
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.
- C. Related Requirements:
 - 1. Section 013200 "Construction Progress Documentation" for preparing and submitting Contractor's construction schedule.
 - 2. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - 3. Section 017700 "Closeout Procedures" for coordinating closeout of the Contract.

1.3 DEFINITIONS

- A. RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.
- B. DC: Document issued by Design team providing clarification of design intent or interpretation of the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

A. Subcontract List: Within 15 day of Notice To Proceed, submit a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:

- 1. Name, address, and telephone number of entity performing subcontract or supplying products.
- 2. Number and title of related Specification Section(s) covered by subcontract.
- B. Key Personnel Names: Within 15 days of Notice To Proceed, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including office and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
 - 1. Post copies of list in project meeting room, in temporary field office, and by each temporary telephone once on site work commences. Keep list current at all times.

1.5 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's construction schedule.
 - 2. Preparation of the schedule of values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preinstallation conferences.
 - 7. Project closeout activities.
 - 8. Startup and adjustment of systems.

D. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

1.6 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
 - 1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
 - 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
 - 1. Project name.
 - 2. Project number.
 - 3. Date.
 - 4. Name of Contractor.
 - 5. Name of Architect.
 - 6. RFI number, numbered sequentially.
 - 7. RFI subject.
 - 8. Specification Section number and title and related paragraphs, as appropriate.
 - 9. Drawing number and detail references, as appropriate.
 - 10. Field dimensions and conditions, as appropriate.
 - 11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 - 12. Contractor's signature.
 - 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
 - a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
- C. RFI Forms: AIA Document G716 or other approved form.
 - 1. Form and Attachments shall be electronic files in Adobe Acrobat PDF format.
- D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI.
 - 1. The following Contractor-generated RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for approval of Contractor's means and methods.

- d. Requests for coordination information already indicated in the Contract Documents.
- e. Requests for adjustments in the Contract Time or the Contract Sum.
- f. Requests for interpretation of Architect's actions on submittals.
- g. Incomplete RFIs or inaccurately prepared RFIs.
- 2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
- 3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
 - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 5 days of receipt of the RFI response.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Include the following:
 - 1. Project name.
 - 2. RFI number including RFIs that were returned without action or withdrawn.
 - 3. RFI description.
 - 4. Date the RFI was submitted.
 - 5. Date Architect's response was received.
- F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within 5 days if Contractor disagrees with response.

1.7 DESIGN CLARIFICATIONS (DCs)

- A. On receipt of Design Clarification immediately distribute the DC to affected parties.
 - 1. Architect's action on DCs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Proposal Request according to Section 012600 "Contract Modification Procedures."
 - a. If Contractor believes the DC warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 7 days of receipt of the DC.

1.8 PROJECT MEETINGS

- A. General: Owner's representative to schedule and conduct meetings and conferences at Project site unless otherwise indicated.
 - 1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting.
 - 2. Agenda: Owner's representative to prepare the meeting agenda. Distribute the agenda to all invited attendees.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240 PROJECT MANAGEMENT AND COORDINATION 013100 - 4

- 3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.
- B. Preconstruction Conference: Owner's Representative will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days of Notice to Proceed.
 - 1. Conduct the conference to review responsibilities and personnel assignments.
 - 2. Attendees: Authorized representatives of Owner Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 3. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Critical work sequencing and long-lead items.
 - c. Designation of key personnel and their duties.
 - d. Lines of communications.
 - e. Procedures for processing field decisions and Change Orders.
 - f. Procedures for RFIs & DC's.
 - g. Procedures for testing and inspecting.
 - h. Procedures for processing Applications for Payment.
 - i. Distribution of the Contract Documents.
 - j. Submittal procedures.
 - k. Use of the premises and existing building.
 - l. Work restrictions.
 - m. Working hours.
 - n. Owner's occupancy requirements.
 - o. Responsibility for temporary facilities and controls.
 - p. Procedures for disruptions and shutdowns.
 - q. Construction waste management and recycling.
 - r. Parking availability.
 - s. Office, work, and storage areas.
 - t. Equipment deliveries and priorities.
 - u. First aid.
 - v. Security.
 - w. Progress cleaning.
- C. Pre-installation Conferences: Contractor shall conduct a pre-installation conference at Project site before each construction activity that requires coordination with other construction.
 - 1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Owner's Representative, Architect, and Owner's Commissioning Authority of scheduled meeting dates.
 - 2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
 - a. Contract Documents.

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

- b. Options.
- c. Related RFIs & DC's.
- d. Related Change Orders.
- e. Submittals.
- f. Possible conflicts.
- g. Compatibility requirements.
- h. Manufacturer's written instructions.
- i. Warranty requirements.
- j. Compatibility of materials.
- k. Acceptability of substrates.
- 1. Temporary facilities and controls.
- m. Space and access limitations.
- n. Regulations of authorities having jurisdiction.
- o. Installation procedures.
- p. Coordination with other work.
- q. Protection of adjacent work.
- 3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
- 4. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- D. Progress Meetings: Owner's representative to conduct progress meetings at weekly intervals.
 - 1. Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Sequence of operations.
 - 2) Status of submittals.
 - 3) Status of correction of deficient items.
 - 4) Field observations.
 - 5) Status of RFIs & DC's.
 - 6) Status of proposal requests.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

- 7) Pending changes.
- 8) Status of Change Orders.
- 9) Pending claims and disputes.
- 10) Documentation of information for payment requests.
- c. Schedule Updating: Contractor shall revise construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule prior to next meeting.

1.9 PROJECT MANAGEMENT SOFTWARE

A. General: The Contractor's use of project management software for distribution, organization, and storage of project information is at the sole discretion of the Owner. The Owner has no obligation to permit the use of the Contractor's proposed project management software. Approval of all requests will be on a case-by-case basis. Electronic project documentation utilizing emails and PDF files will be the default unless Owner deems alternative software acceptable. Owner can rescind approval of Contractor's project management software without cause at any time during project.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 **SUMMARY**

- Section includes administrative and procedural requirements for documenting the progress of A. construction during performance of the Work, including the following:
 - 1. Contractor's construction schedule.
 - Construction schedule updating reports. 2.
 - Daily construction reports. 3.
 - Site condition reports. 4.
 - Special reports. 5.
- B. **Related Requirements:**
 - Section 013300 "Submittal Procedures" for submitting schedules and reports. 1.
 - Section 014000 "Quality Requirements" for submitting a schedule of tests and 2. inspections.

DEFINITIONS 1.3

- Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, A. and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - Critical Activity: An activity on the critical path that must start and finish on the planned 1. early start and finish times.
 - Predecessor Activity: An activity that precedes another activity in the network. Successor Activity: An activity that follows another activity in the network. 2.
 - 3.
- CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project. B.
- Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float. C.
- Event: The starting or ending point of an activity. D.
- E. Float: The measure of leeway in starting and completing an activity.

- 1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
- 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
- 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.

1.4 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
 - 1. Working electronic copy of schedule file, where indicated.
 - 2. PDF electronic file.
- B. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
- C. Construction Schedule Updating Reports: Submit with Applications for Payment.
- D. Daily Construction Reports: Submit at daily or weekly intervals.
- E. Site Condition Reports: Submit at time of discovery of differing conditions.
- F. Special Reports: Submit at time of unusual event.

PART 2 - PRODUCTS

- 2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL
 - A. CPM Schedule: Prepare and submit Contractor's construction schedule no later than 15 days after date established for the Notice to Proceed.
 - 1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities.
 - 2. Critical Path Activities: Identify critical path activities; scheduled start and completion dates shall be consistent with Contract milestone dates.
 - B. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using a network fragment to demonstrate the effect of the proposed change on the overall project schedule.
 - C. Time Frame: Extend schedule from date established for the Notice to Proceed to date of Substantial Completion and Final completion of project.
 - 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.

- D. Activities: At a minimum, provide a separate numbered activity for each specification section and main element of the Work. Comply with the following:
 - 1. Activity Duration: Define activities so no activity is longer than 10 days, unless specifically allowed by Architect.
 - 2. Activity Grouping: Group activities by separate project areas to provide a standalone schedule for each project area. Coordinate activities between project areas.
 - 3. Submittal Activities: Include submittal process activities.
 - 4. Procurement Activities: Include procurement process activities for the following long lead items and major items requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
 - 5. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
 - 6. Punch List and Final Completion: Include not more than 10 days for completion of punch list items and final completion.
- E. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
 - 1. Construction Areas: Identify each major area of construction for each major portion or phase of the Work.
- F. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion for each project area and dates of building occupancy.
- G. Recovery Schedule: When periodic update indicates the Work is 7 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, and equipment required to achieve compliance, and date by which recovery will be accomplished.
- H. Computer Scheduling Software: Prepare schedules using current version of a program that has been developed specifically to manage construction schedules.

2.2 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
 - 1. List of subcontractors at Project site.
 - 2. List of separate contractors at Project site.
 - 3. Approximate count of personnel at Project site.
 - 4. Equipment at Project site.
 - 5. Material deliveries.
 - 6. <u>High and low temperatures and general weather conditions, including presence of rain or snow.</u>

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

- 7. Accidents.
- 8. Stoppages, delays, shortages, and losses.
- 9. Emergency procedures.
- 10. Orders and requests of authorities having jurisdiction.
- 11. Services connected and disconnected.
- 12. Equipment or system tests and startups.
- B. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

2.3 SPECIAL REPORTS

- A. General: Submit special reports directly to Owner within one day of an occurrence. Distribute copies of report to parties affected by the occurrence.
- B. Reporting Unusual Events: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: At weekly intervals, update schedule to reflect actual construction progress and activities. Issue schedule two days before each regularly scheduled weekly progress meeting.
- B. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Requirements:
 - 1. Section 013200 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
 - 2. Section 017823 "Operation and Maintenance Data" for submitting operation and maintenance manuals.
 - 3. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."
- C. File Transfer Protocol (FTP): Communications protocol that enables transfer of files to and from another computer over a network and that serves as the basis for standard Internet protocols. An FTP site is a portion of a network located outside of network firewalls within which internal and external users are able to access files.
- D. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will be provided by Owner for Contractor's use in preparing submittals.

- 1. Owner will furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings.
 - a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows: 15 days for each review. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
- D. All submittals to be submitted electronically with the exception of physical samples.
- E. Paper Submittals (Where electronic submittal is impossible or owner request a paper submittal): Place a permanent label or title block on each submittal item for identification.
 - 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 - 2. Provide a space approximately 6 by 8 inches (150 by 200 mm) on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
 - 3. Include the following information for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name of Contractor.
 - d. Name of subcontractor.
 - e. Name of supplier.
 - f. Name of manufacturer.
 - g. Submittal number or other unique identifier, including revision identifier.
 - 1) Submittal number shall use project number followed by Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
 - h. Number and title of appropriate Specification Section.
 - i. Drawing number and detail references, as appropriate.
 - j. Location(s) where product is to be installed, as appropriate.
 - k. Other necessary identification.
 - 4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
 - 5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will discard submittals received from sources other than Contractor.

- a. Transmittal Form for Paper Submittals: Use AIA Document G810 or a similar document.
- F. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
 - 1. Provide a single Adobe Acrobat .PDF file for each specification section. Provide a transmittal form as first page of the submittal file. Provide bookmarks enabling navigation within the file to each submittal item. Incomplete submittals will be rejected.
 - 2. File name shall use Specification Section Number and Title and date submitted as YYMMDD. Resubmittals shall identify version of submittal by application of suffix "v" and the number of the resubmittal. (For example a second submittal of Section 96813 Tile Carpeting submitted on Jan 25, 2019 should be saved as "96813v2 Tile Carpeting 190125")
 - 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
 - 4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information:
 - a. Project name.
 - b. Date.
 - c. Name of Contractor.
 - d. Name of firm or entity that prepared submittal.
 - e. Names of subcontractor, manufacturer, and supplier.
 - f. Category and type of submittal.
 - g. Submittal purpose and description.
- G. Options: Identify options requiring selection by Architect.
- H. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- I. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
 - 1. Note date and content of previous submittal.
 - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 - 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
 - 4. Resubmittals shall be complete and partial resubmittals of corrected or additional information will not be accepted. Resubmittals shall contain all submittal information required for the specification section.
- J. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

K. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections or Drawings.
 - 1. Post electronic submittals as PDF electronic files directly to designated site with automatic email notification to Architect or Submit electronic submittals via email as PDF electronic files.
 - a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 - 2. Action Submittals: Submit as PDF electronic file unless directed otherwise by the owner.
 - 3. Informational Submittals: Submit as PDF electronic file unless directed otherwise by the owner.
 - 4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. Product Data: Provide product data for all specified products.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale for all custom fabrication work. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

- 1. Transmit each submittal using a transmittal form. Architect will discard submittals received from sources other than Contractor.
 - a. Transmittal Form for Sample Submittals: Use AIA Document G810 or a similar document.
- 2. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
- 3. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected.
 - a. Number of Samples: Submit three sets of Samples. Architect will retain one Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.
- E. Contractor's Construction Schedule: Comply with requirements specified in Section 013200 "Construction Progress Documentation."
- F. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."
- G. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
- H. Maintenance Data: Comply with requirements specified in Section 017823 "Operation and Maintenance Data."
- I. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- J. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- K. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- L. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

- M. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- N. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- O. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- P. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- Q. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project.
- R. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- S. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- T. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- U. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 GENERAL

A. The contractor is responsible to assure submittals are correct and complete prior to submission for review. A maximum of two reviews by the design team is expected to be adequate to obtain approval. At the owner's discretion, costs for additional submittal review (in excess of two reviews) may be charged to the contractor. Charges will be withheld from contractor payments.

3.2 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.3 ARCHITECT'S ACTION

- A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will only be reviewed when use of partial submittals has received prior approval from Architect.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

F. Approval of a submittal that deviates from the Construction Documents does not relieve the Contractor of their responsibility to perform the Work in accordance with the Construction Documents.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other qualityassurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, Commissioning Authority, or authorities having jurisdiction are not limited by provisions of this Section.
 - 4. Specific test and inspection requirements are not specified in this Section.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect or Owner's Representative.
- C. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.

- 9. Test and inspection results and an interpretation of test results.
- 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
- 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
- 12. Name and signature of laboratory inspector.
- 13. Recommendations on retesting and reinspecting.
- B. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- F. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- G. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- H. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:

- 1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
 - c. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
 - d. Build laboratory mockups at testing facility using personnel, products, and methods of construction indicated for the completed Work.
 - e. When testing is complete, remove test specimens, assemblies, and mockups; do not reuse products on Project.
- 2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect and Commissioning Authority, through Owner's Representative, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

1.7 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
 - 1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
 - 2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 - 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 - 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 - 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 - 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 - 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

- C. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- D. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar qualitycontrol services required by the Contract Documents. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.
 - 1. Distribution: Distribute schedule to Owner, Architect, Commissioning Authority, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.8 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Unless otherwise noted, the Owner will engage a qualified special inspector to conduct special tests and inspections required by authorities having jurisdiction as follows:
 - 1. Notifying Architect and Contractor through Owner's Representative promptly of irregularities and deficiencies observed in the Work during performance of its services.
 - 2. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect through Owner's Representative with copy to Contractor and to authorities having jurisdiction.
 - 3. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 - 4. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
 - 5. Retesting and reinspecting corrected work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Architect.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 DEFINITIONS

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.
- C. "Conforms to Design": When used to convey Architect's action on Contractor's submittals, applications, and requests, "conforms to design" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.
- D. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- E. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- F. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
- G. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- H. "Install": Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
- I. "Provide": Furnish and install, complete and ready for the intended use.
- J. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.3 INDUSTRY STANDARDS

A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if **RCS SITE AND PLAYGROUND REFERENCES**

SECTION 014200 - REFERENCES

bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.
- C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.4 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Thomson Gale's "Encyclopedia of Associations" or in Columbia Books' "National Trade & Professional Associations of the U.S."
- B. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.
- C. Federal Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.
- D. Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the standards and regulations in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.
- E. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.
- B. Electric Power Service: Contractor may use existing building power without charge as long as their use does not interrupt occupants use or damage any systems. Any damage to Owner's systems caused by Contractor's use shall be repaired by the Contractor at no charge to the Owner.
- C. Water Service: Contractor may use existing building's water for construction operations as long as their use does not interrupt occupants use or damage any systems. Any damage to Owner's systems caused by Contractor's use shall be repaired by the Contractor at no charge to the Owner.
- D. Fuel: Contractor shall provide temporary heat as required for construction operations and temporary facilities. Contractor responsible for fuel cost associated all construction operations and use of temporary facilities.

1.4 SUBMITTALS

A. Site Plan: Provide a site plan that shows locations of temporary facilities, utility connections, staging areas, and parking areas for construction personnel. Should construction sequencing or phasing alter the locations of the above, then secondary plans showing revised locations are required. Coordinate this site plan with the Contract Drawings.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests, Permits, & Inspections: Obtain required permits, tests, and inspections from authorities having jurisdiction for each temporary utility prior to use.

1.6 **PROJECT CONDITIONS**

A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide galvanized-steel bases for supporting posts.

2.2 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.

B. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

3.3 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- B. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Maintain access for fire-fighting equipment and access to fire hydrants.
- C. Parking: Limit parking to areas designated as contractor staging areas.
- D. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 017300 "Execution."
- E. Provide protable drinking water as required.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Comply with requirements specified in CBJ Standard Specifications for Civil Engineering, Division 01 Section 01560 "Temporary Environmental Controls."
 - 1. Comply with work restrictions specified in Division 1 Section "Summary."
- B. Temporary Erosion and Sedimentation Control: Comply with requirements specified CBJ Standard Specifications for Civil Engineering, Division 01 Section 01570 "Erosion and Sediment Control."
- C. Stormwater Control: Comply with authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- D. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- E. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering work areas.

- 1. Extent of Fence: As required surrounding Work area and Contractor staging areas to provide separation from those areas and public spaces.
- F. Security Enclosure and Lockup: Install substantial temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
- G. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- H. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
 - 1. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.
- I. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
 - 1. Prohibit smoking in construction areas.
 - 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 - 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.
- J. Protection of Existing Facilities: Protect existing, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.
- B. Related Requirements:
 1. Section 012500 "Substitution Procedures" for requests for substitutions.

1.3 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
- B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

1.4 ACTION SUBMITTALS

A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

- 1. Include data to indicate compliance with the requirements specified in "Comparable Products" Article.
- 2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor through Owner's Representative of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
 - a. Form of Approval: As specified in Section 013300 "Submittal Procedures."
 - b. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.
- B. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 013300 "Submittal Procedures." Show compliance with requirements.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
 - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
 - 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
 - 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
 - 4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.
- C. Storage:
 - 1. Store products to allow for inspection and measurement of quantity or counting of units.
 - 2. Store materials in a manner that will not endanger Project structure.
 - 3. Store products that are subject to damage by the elements, under cover in a weather tight enclosure above ground, with ventilation adequate to prevent condensation.
 - 4. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
 - 5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
 - 6. Protect stored products from damage and liquids from freezing.

1.6 **PRODUCT WARRANTIES**

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
 - 1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 - 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
 - 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 - 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
 - 3. See other Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
 - 1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 - 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 - 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 - 4. Where products are accompanied by the term "as selected," Architect will make selection.
 - 5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
 - 6. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
- B. Product Selection Procedures:

- 1. Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- 2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- 3. Products:
 - a. Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
 - b. Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product.
- 4. Manufacturers:
 - a. Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
 - b. Nonrestricted List: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed manufacturer's product.
- 5. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
- C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
 - 1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Section 012500 "Substitution Procedures" for proposal of product.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 COMPARABLE PRODUCTS

- A. Conditions for Consideration: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:
 - 1. Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
 - 2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - 3. Evidence that proposed product provides specified warranty.
 - 4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
 - 5. Samples, if requested.

PART 3 - EXECUTION (Not Used)

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Installation of the Work.
 - 2. Cutting and patching.
 - 3. Progress cleaning.
 - 4. Starting and adjusting.
 - 5. Protection of installed construction.
 - 6. Correction of the Work.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for limits on use of Project site.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of mechanical and electrical systems, and other construction affecting the Work.
 - 1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer and water-service piping and other utilities.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 - 1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
 - 2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
 - 3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work. Where construction schedule does not allow field measurement prior to fabrication layout work according to coordination drawings allowing tolerances needed to assure proper fir of Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 013100 "Project Management and Coordination."

3.3 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - 1. Make vertical work plumb and make horizontal work level.
 - 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 - 3. Conceal pipes, ducts, conduit and wiring in finished areas unless otherwise indicated.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.4 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Temporary Support: Provide temporary support of work to be cut.
- C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching according to requirements in Section 011000 "Summary."
- E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.
- F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
 - 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 6. Proceed with patching after construction operations requiring cutting are complete.
- G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.

- a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
- b. Restore damaged pipe covering to its original condition.
- 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
- 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
- 5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weather tight condition and ensures thermal and moisture integrity of building enclosure.
- H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.5 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 - 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 - 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Use containers intended for holding waste materials of type to be stored.
 - 4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 - 1. Remove liquid spills promptly.
 - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

SECTION 017300 - EXECUTION

- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 015000 "Temporary Facilities and Controls."
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Provide protection and maintain conditions that ensure existing finishes are without damage or deterioration at time of Substantial Completion.
- C. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.
- B. Related Requirements:
 - 1. Section 017300 "Execution" for progress cleaning of Project site.
 - 2. Section 017823 "Operation and Maintenance Data" for operation and maintenance manual requirements.

1.3 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 FINAL ACCEPTANCE

- A. Before requesting inspection for certification of final acceptance and final payment, complete and submit the following:
 - 1. Submit final payment request.
 - 2. Submit a final Change Order request.
 - 3. Submit a copy of the final inspection list stating that each item has been completed or otherwise resolved for acceptance.
 - 4. Submit final meter readings for utilities, a record of stored fuel, and similar data as of Substantial Completion.
 - 5. Submit consent of surety to final payment.
 - 6. Submit evidence of continuing insurance coverage complying with insurance requirements.

- 7. Written guarantees where required.
- 8. Maintenance stock items; spare parts; special tools, where required.
- 9. Certificates of final inspection and acceptance by local governing agencies having jurisdiction.
- 10. Completed CBJ Certificate of Compliance and Release form attached with this section.
- 11. Final Subcontractor list complete with final subcontract amounts and include all equipment rentals (with operators).
- 12. Alaska Department of Revenue Corporate Income Tax Clearance letter for the CONTRACTOR.
- 13. Before final payment can be made, the CONTRACTOR shall supply a copy of the "Notice of Completion of Public Works" form approved by Wage and Hour Administration of the Labor Standards and Safety Division of the Alaska Department of Labor and Workforce Development.
- 14. Alaska Department of Labor Employment Security Tax Clearance letter for the CONTRACTOR and all Subcontractors, a copy of which is located at the end of Section 00800 Supplementary General Conditions.
- 15. Submit original items 11, 12, 13 and 14 to Contracts Administrator, CBJ Engineering.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating all Work that is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 5 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information for each phase.
 - 3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Owner's Representative. Label with manufacturer's name and model number where applicable.
 - 5. Submit test/adjust/balance records.
 - 6. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

CLOSEOUT PROCEDURES

- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 5 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Advise Owner of pending insurance changeover requirements.
 - 2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 - 3. Complete startup and testing of systems and equipment.
 - 4. Perform preventive maintenance on equipment used prior to Substantial Completion.
 - 5. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - 6. Complete final cleaning requirements, including touchup painting.
 - 7. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 5 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect and Owner's Representative will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 - 2. Results of completed inspection will form the basis of requirements for final completion.

1.7 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete items listed in 1.4 FINAL ACCEPTANCE.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect and Owner's Representative will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

- 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
- 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
- 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Page number.
- 4. Submit list of incomplete items in the following format:
 - a. PDF electronic file. Architect through Owner's Representative will return annotated file.

1.9 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
- C. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch (215-by-280-mm) paper.
 - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
 - 4. Provide electronic PDF copy of all warranty documents.
- D. Provide additional copies and scans of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 - 1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - f. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - g. Sweep concrete floors broom clean in unoccupied spaces.
 - h. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - i. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.

CLOSEOUT PROCEDURES

- j. Remove labels that are not permanent.
- k. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- 1. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
- m. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
- n. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
 - 1) Clean HVAC system in compliance with NADCA Standard 1992-01. Provide written report on completion of cleaning.
- o. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
- p. Leave Project clean and ready for occupancy.
- C. Construction Waste Disposal: Comply with waste disposal requirements in Section 015000 "Temporary Facilities and Controls."

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
 - 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
 - 4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

COMPLIANCE CERTIFICATE AND RELEASE FORM

PROJECT: <u>MRCS Site and Playground Upgrades</u> CONTRACT NO: <u>BE21-240</u>

The **CONTRACTOR** must complete and submit this form to the Contract Administrator with respect to the entire contract and submit completed Subcontractor Compliance forms for each Subcontractor used on the Contract and listed on the Subcontractor report.

Completed forms shall be submitted upon completion of the Project. All requirements and submittals must be met before final payment will be made to the CONTRACTOR.

I certify that the following and any referenced attachments are true:

- All WORK has been performed, materials supplied, and requirements met in accordance with the applicable Drawings, Specifications, and Contract Documents.
- All payments to Subcontractors and Suppliers have been made in accordance with Alaska Statute 36.90.210. If not, please provide written explanation, for each case, why and the specific mutual payment agreement reached with the Supplier or Subcontractor.
- CHECK ONE:
 - □ All Suppliers and Subcontractors have been paid in full with no claims for labor, materials or other services outstanding.
 - □ The following Suppliers and Subcontractors are due final payment which will be made upon the release of the final payment by the CBJ. List the Suppliers and Subcontractors and the amount they are due below (attach separate sheet if necessary) :

	Supplier or Subcontractor	Amount Owed
1.		\$
2.		\$
3.		\$
4.		\$
5.		\$
6.		\$
7.		\$

CLOSEOUT PROCEDURES

- All employees have been paid not less than the current prevailing wage rates set by the State of Alaska (or U.S. Department of Labor, as applicable).
- All equal employment opportunity, certified payroll and other reports have been filed in accordance with the prime contract.
- The attached list of Subcontractors is complete (required from CONTRACTOR). The City Engineer was advised and approved of all Subcontractors before WORK was performed and has approved any substitutions of Subcontractors.
- All DBE firms listed as a precondition of the prime contract award must have performed a commercially useful function in order for the WORK to count to a DBE goal. All DBE firms performed the WORK stated and have received at least the amount claimed for credit in the Contract Documents.
- All DBE Subcontractors must attach a signed statement of the payment amount received, the nature of WORK performed, whether any balance is outstanding, and indicate that no rebates are involved.
- If the amount paid is less than the amount originally claimed for DBE credit, the CONTRACTOR has attached approval from the City Engineer for underutilization.

I understand it is unlawful to misrepresent information in order to receive a payment which would otherwise be withheld if these conditions were not met. I am an authorized agent of this firm and sign this freely and voluntarily. The foregoing statements are true and apply to the following project contractor.

Firm Name Capacity: CONTRACTOR

Signed

Printed Name and Title

Date

Return completed form to: Engineering Contracts Division, City and Borough of Juneau, 155 South Seward Street, Juneau, AK 99801 or by email to: <u>contracts@uneau.org</u>

Call (907) 586-0800 ext. 4194 if we can be of further assistance or if you have any questions.

SUBCONTRACTOR COMPLIANCE CERTIFICATE AND RELEASE FORM

PROJECT: <u>MRCS Site and Playground Upgrades</u> CONTRACT NO: <u>BE21-240</u>

Each **SUBCONTRACTOR** must complete and submit this form to the Contract Administrator, through the General Contractor, with respect to the entire contract.

Completed forms shall be submitted upon completion of the Project. All requirements and submittals must be met before final payment will be made to the CONTRACTOR.

I certify that the following and any referenced attachments are true:

- All WORK has been performed, materials supplied, and requirements met in accordance with the applicable Drawings, Specifications, and Contract Documents.
- (name of firm) has been paid by the Contractor in accordance with Alaska Statute 36.90.210. (If not, please provide written explanation on an attached sheet, for each case. Provide specific details why payment was not made and the specific mutual payment agreement reached with the Contractor if it is still unresolved.)
- CHECK ONE:
 - □ I / WE have been paid in full by the Contractor, with no claims for labor, materials or other services outstanding.
 - I / WE are due the following amount from the Contractor which is included in the Contractors Request for Final Payment. WE are due a total of \$______ for the following individual items that have yet to be paid (attach separate sheet if necessary).

	Outstanding Payment Item	Outstanding Amount Owed
1.		\$
2.		\$
3.		\$
4.		\$
5.		\$
6.		\$
7.		\$

CLOSEOUT PROCEDURES

- All employees have been paid not less than the current prevailing wage rates set by the State of Alaska (or U.S. Department of Labor, as applicable).
- All equal employment opportunity, certified payroll and other reports have been filed in accordance with the prime contract.

I understand it is unlawful to misrepresent information in order to receive a payment which would otherwise be withheld if these conditions were not met. I am an authorized agent of this firm and sign this freely and voluntarily. The foregoing statements are true and apply to the following project contractor.

Firm Name Capacity: SUBCONTRACTOR

Sign

Printed Name and Title

Date

Prime Contractor shall return completed form to: Engineering Contracts Division, City and Borough of Juneau, 155 South Seward Street, Juneau, AK 99801 or email: greg.smith@juneau.org Call (907) 586-0800 ext. 4194 if we can be of further assistance or if you have any questions.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
 - 1. Operation and maintenance documentation directory.
 - 2. Operation manuals for systems, subsystems, and equipment.
 - 3. Product maintenance manuals.
- B. Related Requirements:
 - 1. Section 013300 "Submittal Procedures" for submitting copies of submittals for operation and maintenance manuals.

1.3 DEFINITIONS

- A. System: An organized collection of parts, equipment, or subsystems united by regular interaction.
- B. Subsystem: A portion of a system with characteristics similar to a system.

1.4 CLOSEOUT SUBMITTALS

- A. Manual Content: Operations and maintenance manual for each item specified in individual Specification Sections. Submit operations and maintenance manual content formatted and organized as required by this Section.
- B. Format: Submit operations and maintenance manuals in both of the following formats:
 - 1. Adobe Acrobat .PDF electronic file. Assemble each manual into a composite electronically indexed file. Submit on digital media acceptable to Architect. Provide review submittals in PDF format and final corrected submittal in PDF format.
 - a. Name each indexed document file in composite electronic index with applicable item name. Include a complete electronically linked operation and maintenance directory.
 - b. Enable inserted reviewer comments on draft submittals.

- 2. Two paper copies. Include a complete operation and maintenance directory. Enclose title pages and directories in clear plastic sleeves. Provide paper copies for final submittal only.
- C. Initial Manual Submittal: Submit draft copy of each manual at least 15 days before commencing demonstration and training. Architect and Commissioning Agent will comment on whether general scope and content of manual are acceptable.
- D. Final Manual Submittal: Submit each manual in final form prior to requesting inspection for Final Completion and at least 10 days before commencing demonstration and training. Architect and Commissioning Agent will return copy with comments.
 - 1. Correct or revise each manual to comply with Architect's and Commissioning Authority's comments. Submit copies of each corrected manual within 10 days of receipt of Architect's and Commissioning Agent's comments and prior to commencing demonstration and training.

PART 2 - PRODUCTS

2.1 OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY

- A. Directory: Prepare a single, comprehensive directory of emergency, operation, and maintenance data and materials, listing items and their location to facilitate ready access to desired information. Include a section in the directory for each of the following:
 - 1. List of documents.
 - 2. List of systems.
 - 3. List of equipment.
 - 4. Table of contents.
- B. List of Systems and Subsystems: List systems alphabetically. Include references to operation and maintenance manuals that contain information about each system.
- C. List of Equipment: List equipment for each system, organized alphabetically by system. For pieces of equipment not part of system, list alphabetically in separate list.
- D. Tables of Contents: Include a table of contents for each emergency, operation, and maintenance manual.
- E. Identification: In the documentation directory and in each operation and maintenance manual, identify each system, subsystem, and piece of equipment with same designation used in the Contract Documents. If no designation exists, assign a designation according to ASHRAE Guideline 4, "Preparation of Operating and Maintenance Documentation for Building Systems."

2.2 REQUIREMENTS FOR OPERATION, AND PRODUCT MAINTENANCE MANUALS

- A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:
 - 1. Title page.
 - 2. Table of contents.
 - 3. Manual contents.
- B. Title Page: Include the following information:
 - 1. Subject matter included in manual.
 - 2. Name and address of Project.
 - 3. Name and address of Owner.
 - 4. Date of submittal.
 - 5. Name and contact information for Contractor.
 - 6. Name and contact information for Construction Manager.
 - 7. Name and contact information for Architect.
 - 8. Name and contact information for Commissioning Authority.
 - 9. Names and contact information for major consultants to the Architect that designed the systems contained in the manuals.
 - 10. Cross-reference to related systems in other operation and maintenance manuals.
- C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.
 - 1. If operation or maintenance documentation requires more than one volume to accommodate data, include comprehensive table of contents for all volumes in each volume of the set.
- D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
- E. Manuals, Electronic Files: Submit manuals in the form of a multiple file composite electronic PDF file for each manual type required.
 - 1. Electronic Files: Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
 - 2. File Names and Bookmarks: Enable bookmarking of individual documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.
- F. Manuals, Paper Copy: Submit manuals in the form of hard copy, bound and labeled volumes.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

OPERATION AND MAINTENANCE DATA

- 1. Binders: Heavy-duty, three-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
 - a. If two or more binders are necessary to accommodate data of a system, organize data in each binder into groupings by subsystem and related components. Cross-reference other binders if necessary to provide essential information for proper operation or maintenance of equipment or system.
 - b. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.
- 2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section of the manual. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
- 3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software storage media for computerized electronic equipment.
- 4. Supplementary Text: Prepared on 8-1/2-by-11-inch white bond paper.
- 5. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
 - a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
 - b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

2.3 OPERATION MANUALS

- A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:
 - 1. System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.
 - 2. Performance and design criteria if Contractor has delegated design responsibility.
 - 3. Operating standards.
 - 4. Operating procedures.
 - 5. Operating logs.
 - 6. Wiring diagrams.
 - 7. Control diagrams.
 - 8. Piped system diagrams.
 - 9. Precautions against improper use.
 - 10. License requirements including inspection and renewal dates.
- B. Descriptions: Include the following:
 - 1. Product name and model number. Use designations for products indicated on Contract Documents.

OPERATION AND MAINTENANCE DATA

- 2. Manufacturer's name.
- 3. Equipment identification with serial number of each component.
- 4. Equipment function.
- 5. Operating characteristics.
- 6. Limiting conditions.
- 7. Performance curves.
- 8. Engineering data and tests.
- 9. Complete nomenclature and number of replacement parts.
- C. Operating Procedures: Include the following, as applicable:
 - 1. Startup procedures.
 - 2. Equipment or system break-in procedures.
 - 3. Routine and normal operating instructions.
 - 4. Regulation and control procedures.
 - 5. Instructions on stopping.
 - 6. Normal shutdown instructions.
 - 7. Seasonal and weekend operating instructions.
 - 8. Required sequences for electric or electronic systems.
 - 9. Special operating instructions and procedures.
- D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
- E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.4 PRODUCT MAINTENANCE MANUALS

- A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
- C. Product Information: Include the following, as applicable:
 - 1. Product name and model number.
 - 2. Manufacturer's name.
 - 3. Color, pattern, and texture.
 - 4. Material and chemical composition.
 - 5. Reordering information for specially manufactured products.
- D. Maintenance Procedures: Include manufacturer's written recommendations and the following:
 - 1. Inspection procedures.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240 **OPERATION AND MAINTENANCE DATA**

- 2. Types of cleaning agents to be used and methods of cleaning.
- 3. List of cleaning agents and methods of cleaning detrimental to product.
- 4. Schedule for routine cleaning and maintenance.
- 5. Repair instructions.
- E. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.
- F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
 - 1. Include procedures to follow and required notifications for warranty claims.

PART 3 - EXECUTION

3.1 MANUAL PREPARATION

- A. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.
- B. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.
 - 1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
 - 2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.
- C. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.
 - 1. Prepare supplementary text if manufacturers' standard printed data are not available and where the information is necessary for proper operation and maintenance of equipment or systems.
- D. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.
 - 1. Do not use original project record documents as part of operation and maintenance manuals.
 - 2. Comply with requirements of newly prepared record Drawings in Section 017839 "Project Record Documents."

E. Comply with Section 017700 "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
 - 3. Record Product Data.
- B. Related Requirements:
 - 1. Section 017823 "Operation and Maintenance Data" for operation and maintenance manual requirements.

1.2 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit copies of record Drawings as follows:
 - a. Initial Submittal:
 - 1) Submit PDF electronic files of scanned marked-up record prints.
 - 2) Architect will review for completeness and accuracy.
 - b. Final Submittal:
 - 1) Submit one paper-copy set(s) of marked-up record prints.
 - 2) Submit PDF electronic files of scanned marked-up record prints.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised Drawings as modifications are issued.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Record data as soon as possible after obtaining it.

SECTION 017839 - PROJECT RECORD DOCUMENTS

- c. Record and check the markup before enclosing concealed installations.
- 2. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
- 3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
- 4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
 - 1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 - 2. Format: Annotated PDF electronic file with comment function enabled.
 - 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
 - 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

2.2 MISCELLANEOUS RECORD SUBMITTALS

- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Format: Submit miscellaneous record submittals as PDF electronic file & paper copy.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record

SECTION 017839 - PROJECT RECORD DOCUMENTS

documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 1 specification sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Installation of play structures and equipment.
 - 2. Anchors, Fasteners, and Hardware.
- B. Related Sections include the following:
 - 1. Section 03301 STRUCTURAL CONCRETE, for installation of cast-in-place footings.
 - 2. Section 09999 APPENDIX:PLAY EQUIPMENT: PROVIDED BY OWNER

1.3 SUBMITTALS

- A. Maintenance Data. (Hard Copies. Furnished with equipment.)
- B. Concrete Mix Design

PART 2 - PRODUCTS

2.1 PLAY STRUCTURES

- A. The following Play Structures will be furnished by the Juneau School District and installed by the CONTRACTOR.
 - 1. Manufacturer: Gametime, <u>www.gametime.com</u>, 1-800-235-2440.

Quantity		Part #	Description			
Pre-K Area Playground						
a.	1	EKW02I	GameTime - ECHO PreSchool whimsy Inground			
b.	1	4181SP	GameTime - Canoe Spring Rider			
С.	1	3205	GameTime - Spinning Sensory Wave Seat			
-						
d.	1	3206	GameTime - FS Sensory Wave Arch System			
e.	1	4689	GameTime - FS Arch Silver Sensor Package			

f. 1		5149	GameTime - Ps Solo Swing 5" X 8'		
g. 1		SS1752	GameTime - 5" Zero-G Chair (2-5)-Stainless		
h. 1 62		6289	GameTime - Toss N Score		
K-1 Area F	Playgro	ound			
i.	1	12583	GameTime - Ada Primetime Swing Frame, 3 1/2" C		
j.	3	12584	GameTime - Ada Primetime Swing Aab, 3 1/2" Od		
k.	2	5165	GameTime - Expression Swing w Adaptive Seat 3		
Ι.	6	SS8910	GameTime - Belt Seat 3 1/2" /8' W/Clevis		
2.2 Pla	aygrou	Ind Equipment w	ww.Ditch Plains - PlaygroundEquipment.com		
Quantity		Part #	Description		
K-1 Area Play Ground					
K-1 Area F	'lay G	louna			

SECTION 028800 - PLAY STRUCTURES

ANCHORS, FASTENERS, AND HARDWARE

- A. Contractor shall furnish all necessary anchors, fasteners and hardware that is not included with the play structures.
 - 1. Manufacturer's standard, galvanized or aluminum materials; commercial quality; concealed, recessed, and capped or plugged. Provide as required for play structures' assembly, mounting, and secure attachment.

1.2 FOUNDATIONS

A. Concrete foundations for Play Structures shall comply with CBJ Standard Specifications for Civil Projects, Section 03301 – Structural Concrete and the manufacturer's recommendations.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

MRCS SITE AND PLAYGROUND UPGRADES CBJ Contract No. BE21-240

PLAY STRUCTURES 028800-2

SECTION 028800 - PLAY STRUCTURES

- C. Coordinate delivery of OWNER furnished play structures with Juneau School District and freight carrier.
 - 1. GameTime Play structures: GameTime eqiupment will be delivered to site or mutually agreed upon location at which time CONTRACTOR shall assume responsibility for play structures. CONTRACTOR to unload play structures and store onsite in location approved by OWNER. CONTRACTOR is responsible to repair any damage incurred to play structures after CONTRACTOR accepts delivery of play structures at site or mutually agreed upon location.
 - 2. Playground Equipment: Ditch Plains to be picked up by contractor from Tlingit & Haida office, 9095 Glacier Highway, Juneau, AK 99801

3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's written installation instructions. Complete field assembly of play structures, where required.
- B. Complete installation of play structures prior to installation of fall protection material.
- C. Install play structures level, plumb, true, and securely anchored at locations indicated on Drawings allowing for required use zones.

3.3 CLEANING

A. After completing play structure installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION

PART 1 - GENERAL

1.1 CONTRACT CONDITIONS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 DESCRIPTION OF WORK

- B. This Section includes the following:
 - 1. Poured-in-Place Safety Surfacing
- C. Related Work Specified Elsewhere:
 - 1. CBJ Standard Specifications
 - 2. Section 02880 Playground Equipment and Structures

1.3 REFERENCES

- A. American Society of Testing and Materials (ASTM) (latest edition):
 - 1. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
 - 2. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials
 - 3. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
 - 4. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment
 - 5. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment
 - 6. ASTM C1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method This standard replaces ASTM D2047
 - 7. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers- Tension
- B. US Consumer Product Safety Commission (CPSC), Public Playground Safety Handbook, latest edition.
- C. United States Department of Justice, ADA Standards for Accessible Design, latest edition.

PLAYGROUND SAFETY SURFACING

1.4 **DEFINITIONS**

- A. EPDM granules: EPDM rubber (ethylene propylene diene monomer (M-class) rubber), a type of synthetic rubber, is an elastomer characterized by a wide range of applications. The M refers to its classification in ASTM standard D-1418; the M class includes rubbers having a saturated chain of the polymethylene type.
- B. Critical Fall Height: A critical fall height (CFH) is the maximum height of fall from play equipment to the ground. It is important to note that safety surfaces do not prevent injury but aim to lessen the severity of any injury that may occur on falls from height.
- C. Fall Height: Fall height is a measurement defined as the vertical distance between a designated play surface and the protective surfacing beneath it.
- D. TPV: Thermoplastic Vulcanized Elastomer. Developed using resin and synthetic rubber with higher UV stabilization.
- E. SBR: Styrene-butadiene or styrene-butadiene rubber (SBR) describe families of synthetic rubbers derived from styrene and butadiene.

1.5 DELIVERY, STORAGE, AND DISPOSAL

A. Materials shall be stored as per manufacturer's recommendations.

1.6 SUBMITTALS

- A. Provide product certifications of product(s) as described in this specification.
- B. Provide copy of warranties for each type of safety surfacing.
- C. Provide installation details and shop drawings, including depths/thicknesses for each material and each critical fall height, inclusive of dimensions for termination and edges around installed play equipment and product perimeter that may differ from what is shown on Drawings.
- D. Verification of critical fall heights of playground equipment as provided by the playground manufacturer for all equipment provided by owner.
- E. IPEMA Certification of Safety Surfacing Materials: Manufacturer's certification of conformance to ASTM F1292-04 products, their thickness and critical heights.
- F. Safety Surfacing Installer Supervisor Qualifications: Certification by surfacing manufacturer for the safety surfacing material specified. Include references, years of experience and list of similar projects.

- G. If remote or alternative supervision will be used, <u>provide written acceptance of remote or</u> <u>alternative quality assurance used and approved by</u> surfacing manufacturer for the safety surfacing material specified.
- H. Provide one each of the following samples for approval and selection:
 - 1. Manufacturer's range of available standard colors for poured in place safety surfacing wear course for selection.
 - 2. 8-inch x 8-inch minimum size sample of complete full profile poured in place safety surfacing including impact course, wear course and binder.
 - 3. 12 inch x 12 inch sample of filter cloth.

1.7 WARRANTY

A. Warranted against defects in materials and workmanship for a minimum of five years for all products.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and in sealed original packages for storage and identified with labels describing contents. Do not provide partial or opened packages as extra materials.
 - 1. One forty pound bag of each poured in place safety surfacing material and color(s) used.

1.9 MOCKUPS

- A. General: Submit work plans and shop drawings for all mock-ups for review and confirmation prior to initiation of work.
- B. One minimum five foot by five foot of poured in place safety surfacing shall be installed. The mock up is to be used to determine the quality of the finish, color(s), profile, and layout. Subsequent Work that does not match the approved mockup shall be replaced. The mock up can be incorporated into the Work provided it can be incorporated into the remaining Work without seams, breaks or other safety or visual deviations. Remove mock up if not approved and install new segment for mock up approval.

1.10 FIELD CONDITIONS

A. Field Conditions: Install only when night-time temperatures and daytime temperatures are above those indicated by safety surfacing manufacturer for products specified. Do not install when subgrade/base and air temperatures are below the temperatures specified or humidity is above specified by safety surfacing manufacturer for products specified. Do

MRCS SITE AND PLAYGROUND UPGRADES Contract No. BE21-240

PLAYGROUND SAFETY SURFACING

Page 028810-3

not install when raining or subgrade/base is saturated. Other manufacturer field conditions may exist, follow manufacturer's instructions.

B. If field conditions do not meet the manufacturer's installation recommendations, the CONTRACTOR will not be allowed to extend the completion date or request additional compensation for the WORK to be completed. It is the CONTRACTOR'S responsibility to meet the manufacturer's recommended field conditions through remedial actions including but not limited to, tenting, heating, or other provisions necessary to allow installation of safety surfacing as directed by manufacturer. Remedial actions must be approved by the manufacturer and the OWNER prior to installation.

1.11 QUALITY ASSURANCE

- A. Installer Qualifications: Installation of poured in place safety surfacing to be supervised by a certified trained specialist approved by surfacing manufacturer for the safety surfacing material specified. Minimum experience is to be five years of supervision in northern climate environments.
- B. Supervision of installation may be done remotely, or as directed/required by surfacing manufacturer to maintain/provide full warranty of surfacing. Provide written acceptance of remote or alternative quality assurance used and approved by manufacturer.

PART 2 - PRODUCTS

1.1 POURED IN PLACE SAFETY SURFACING

- A. To be considered, poured-in-place surfacing manufacturer must provide written verification data showing compliance with all the following requirements:
 - 1. Impact Attenuation: ASTM F1292-99 showing attenuation for the required Critical Height for the equipment shown on the plans.
 - 2. Accessibility of Surface Systems: ASTM F1951-99, showing product meets requirements for playground handicap accessibility as required by the Americans with Disability Act.
 - 3. Coefficient of Friction: ASTM D2047-82, meeting minimum slipresistance coefficient of friction of.9-wet, or 1.0 when wet, or better.
 - 4. Permeability: Product must show a permeability rate of .4 gallons/sy per second.
 - 5. Tensile strength: ASTM D412-87, showing product's ability to stretch before breaking. Wear course must have a minimum tensile strength of 60 PSI, and % of elongation at break of 140%.
 - 6. IPEMA Certification: obtain validation of ASTM F1292 compliance, as tested by an independent laboratory, at www.IPEMA.org.

PLAYGROUND SAFETY SURFACING

- B. Poured in place safety surfacing to be comprised of the following materials, or approved equal.
 - 1. Dual durometer poured in place system with a wearing layer upper membrane and an underlying impact attenuation cushion layer. The finished surface should be porous and capable of being installed at varying thickness to comply with the Critical Fall Height requirements of the playground equipment.
 - 2. Primer to be a 100% solids urethane primer/sealer with low viscosity and penetrating abilities.
 - 3. The cushion layer to be a mixture of black recycled SBR rubber buffings mixed with a 100% solids moisture cured MDI Polyurethane binder or aliphatic installed at the appropriate thickness. Chunk rubber shall not include SBR derived from rubber tires and is to be high quality pre-consumer recycled rubber containing EPDM. The cushion layer should be porous. Cushion layer shall be a minimum thickness of 3" or as required to meet critical fall height of the equipment.
 - 4. Wear surface should be manufactured from 1-4mm EPDM virgin colored rubber granules bonded by binder, 100% solids moisture cured Polyurethane binder or aliphatic and applied to a minimum thickness of ¹/₂" over the cushion layer. Color(s) of the wear coat is to be as shown on the drawings.
- C. Wear Inserts to be comprised of the following materials, or approved equal.
 - 1. Thermal Plastic Vulcanized angular granules with a (Shore A) hardness of 65° A \pm 5 and particle size between .5-1.5 mm shall be used.
 - 2. Thickness of the Insert shall be .5"
 - 3. Insert shall be porous.
 - 4. Aromatic or aliphatic urethane to be used as a binder.
 - 5. Location –Insert to be installed under swings, swing bays, slide exits (unless otherwise noted in drawings). Customer to approve location of wear mat inserts.
 - 6. Standard Color .5-1.5mm to be used. Colors include four standard colors: Terra Cotta Red, Blue, Green, and Beige.
 - 7. Size: Swing bay use locations shall have TPV Inserts inclusive of all outside bay structure poles. Singular swings and slide exits shall be 4'x4'x.5" in thickness
- D. Poured in Place Safety Surfacing to be provided by the following manufacturer and the product indicated, or approved equal.
 - 1. Manufacture: Great Western Recreation PO Box 97 Wellsville, UT 84339 435-245-5055 www.gwpark.com
 - 2. Product:

GameTime GT Impax Poured In Place Safety Surfacing. Wear Course Color: 50% black and 50% single color as selected by OWNER from the full range of standard colors.

MRCS SITE AND PLAYGROUND UPGRADES Contract No. BE21-240

PLAYGROUND SAFETY SURFACING

Page 028810-5

3. Two single colors from standard color selection.

PART 3 - EXECUTION

3.1 GENERAL

- A. Protect existing play equipment, play structures, and related elements during construction.
- B. Protect play equipment from use until all safety surfacing has been installed.
- C. Do not place fill material on surfaces that are muddy, frozen, wet or contain ice or frost.

3.2 EXAMINATION

- A. Verify that the subgrade preparation, compacted density, and elevations conform to the manufacturer's instructions.
- B. Verify that aggregate base materials, thickness compaction, surface tolerances, and elevations conform to the Specifications.
- C. Verify that when installed poured in place safety surfacing will meet ADA requirements for running and cross slopes.
- D. Verify that when installed the finish grade of the poured in place safety surfacing meets the clearance distances and heights for slide exits, transform platforms and other requirements as stipulated in US Consumer Product Safety Commission (CPSC), Public Playground Safety Handbook, latest edition.
- E. Verify that when installed poured in place safety surfacing meets all CPSC safety requirements and manufacturer-recommended minimum clearances plus at least 6-inches, or as indicated on Drawings.
- F. Verify with playground designer/manufacturer all critical fall heights of play equipment and verify with safety surfacing manufacturer that when installed the poured in place safety surfacing and loose rubber surfacing meets required critical fall heights and requirements in US Consumer Product Safety Commission (CPSC), Public Playground Safety Handbook, latest edition.
- G. Notify Engineer immediately when any conditions above cannot be met prior to installation Work.

PLAYGROUND SAFETY SURFACING

3.3 SITE PREPARATION

- A. Verify grades of existing subgrade to accept minimum depth of aggregate base and poured in place safety surfacing while meeting heights for all playground equipment, slide exits, transform platforms and other requirements as stipulated in CPSC, Public Playground Safety Handbook and ADA guidelines for accessibility. Adjust subgrades as needed to meet required finish grade of poured in place safety surfacing.
- B. The Contractor shall ensure that the prepared subgrade is protected from damage from inundation by surface water. No traffic shall be allowed to cross the prepared subgrade. Repair of any damage resulting shall be the responsibility of the Contractor and shall be repaired.

3.4 POURED IN PLACE SAFETY INSTALLATION

- A. Verify with safety surfacing manufacturer required depth of surfacing for installed play equipment and fall heights. Notify ENGINEER of any discrepancies.
- B. Installation of poured in place safety surfacing to be supervised by a trained specialist approved by surfacing manufacturer for the safety surfacing material specified. Install as directed by supervisor and directed by manufacturer.
- C. Upon approval of base course, install safety surfacing as shown on Drawings and as directed by manufacturer.

3.5 CLEANUP

- A. During construction, keep adjacent paving, park and construction clean and work area in an orderly condition.
- B. Remove construction related debris and clean adjacent surfaces including play equipment, structures, and paving.
- C. Remove all trash and debris from playground and Project site.

3.6 DISPOSAL

- A. Coordinate and make available to Owner any surplus material and stockpile for pick up. Any surplus materials not desired by Owner shall be disposed of.
- B. Remove surplus materials and waste material not desired by OWNER, including but not limited to excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property.

END OF SECTION

MRCS SITE AND PLAYGROUND UPGRADES Contract No. BE21-240

PLAYGROUND SAFETY SURFACING

Page 028810-7

SECTION 099990 – APPENDIX: PLAY EQUIPMENT: PROVIDED BY OWNER

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Play equipment basic installation instructions from manufacturer.

1.2 PLAY EQUIPMENT PROVIDED BY OWNER

A. The following pages are provided as a courtesy by the playground equipment manufacturer for items PROVIDED BY OWNER. These are provided as guidelines only and it is the CONTRACTORS responsibility to obtain complete and detailed instructions for installation of each piece of playground equipment from the manufacturer.



General System Specifications:

The uprights shall be factory drilled to ensure accurate placement of components and ease of installation. Field drilling and measuring are not required. GT Events are direct bolt products NOT a clamp system. All uprights shall receive factory installed aluminum post caps and shall be shipped with a factory applied label indicating proper surfacing level.

All decks and components shall connect to support posts by means of a through-bolt connection for strong, durable connections. Deck/Collar attachments shall not be acceptable.

Manufacturer shall offer the following warranties on the materials and components of its system:

- LIFETIME LIMITED WARRANTY ON SUPPORT POSTS (UPRIGHTS)
- 15 YEAR LIMITED WARRANTY ON PUNCHED STEEL DECKS, PIPES, RAILS, LOOPS AND RUNGS
- 15 YEAR LIMITED WARRANTY ON ROTOMOLDED POLYETHYLENE COMPONENTS
- LIFETIME LIMITED WARRANTY ON POWERLOCK AND HARDWARE

Manufacturer shall be ISO 9001/2008 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-17

Swings

POWERSCAPE SWING TOPRAIL AND ARCH Shall be fabricated of 5" O.D. (.12W) galvanized steel tubing. Arch includes a swaged 5" O.D. (.12W) galvanized steel tubing to which the toprail is fastened.

FINISH

Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE

All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS

GAMETIME® has a policy of continuous improvement and reserves the right to change specifications without notice.

BELT SEAT WITH CLEVIS

Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper.



SWING CLEVIS: Shall be 5/16" Dia. with galvanized finish. Bolt shall have tamper resistant head.

CHAIN: (a) Material: 7/32" diameter steel wire. (b) Dimensions (inside for each link): 3/8" wide, 1-3/8" long. (c) Finish: Chain shall be hot dipped galvanized. (d) Type of construction: 4/0 welded link coil chain.

COATED CHAIN: Shall be standard 7/32" diameter steel wire chain with a 1/8" (nominal) thickness of color-impregnated polyvinyl coating with U.V. inhibitors.

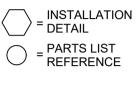
STAINLESS STEEL CHAIN: (a) Material: 7/32" diameter steel wire. (b) Dimensions (inside for each link): 3/8" wide, 1-3/8" long. (c) Type of construction: 4/0 welded link coil chain.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel.

Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320 % longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.



ISSUED/REVISED: 9/21/2020





INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

3. NOTE: Drill out 1/4" holes with 3/8" drill bit on the adaptive seat.

EXPRESSION SWING w/ **ADAPTIVE SEAT** 3 1/2" O.D. x 8' TOPRAIL 5165 5" O.D. x 8' TOPRAIL 5166 ፍ 4'6" [137.16cm] ፍ 418 2'-10" [86036cm] -G 3 CENTER OF TOP RAIL 421 **์419** 6 421 4 5 2 1'-6" [45.72 cm] 8'-0" [243.84cm] 613 FINISHED GRADE ASSEMBLY DRAWING

5165 SHOWN

5165

	Parts List			
REF	DESCRIPTION	5165	5166	PART NUMBER
1	EXPRESSION SWING w/ ADAPTIVE SEAT PACKAGE	1	1	213059
2	SEAT ASS'Y	1	1	208958**
3	ADAPTIVE WELD ASS'Y	1	1	212912**
4	SWING CASTING	4	4	209237**
5	(PURCHASED) EXPRESSION SWING w/ ADAPTIVE SEAT CAUTION LABEL	1	1	213060**
	ADAPTIVE SEAT PACKAGE 3 1/2" TOP RAIL	1		213062
6	ADAPTIVE SEAT	1	1	166082***
	SWING HANGER (3-1/2" O.D.)	2	0	1462***
	ADAPTIVE SEAT PACKAGE 5" TOP RAIL	0	1	213063
6	ADAPTIVE SEAT	0	1	166082****
	SWING HANGER (5" O.D.)	0	2	1487****
	HARDWARE COMPLETE	1	1	213061**
	3/8" x 1" P.B.H.C.S. w/PATCH	2	2	812050*
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	4	4	812053*
	3/8" x 2 1/2" P.B.H.C.S. w/PATCH	2	2	812057*
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	2	812058*
	3/8" FLAT WASHER	2	2	817410*
	3/8" BARREL NUT	10	10	804804*
	3/8" LOCK WASHER	2	2	817334*
	3/8" O.D. STAINLESS STEEL WIRE	2	2	208743*
	3/8" PLASTIC SPACER	12	12	817613*
	3/8" PIN-IN TORX BIT, T45	2	2	812655*
	1/2" LOCKWASHER	4	4	817342*
	D SHACKLE w/NO-SNAG PIN	6	6	161853*
	S.S. CHAIN 17 LINKS	4	4	213058*

Unless Otherwise Specified, All Units of Measure are Each

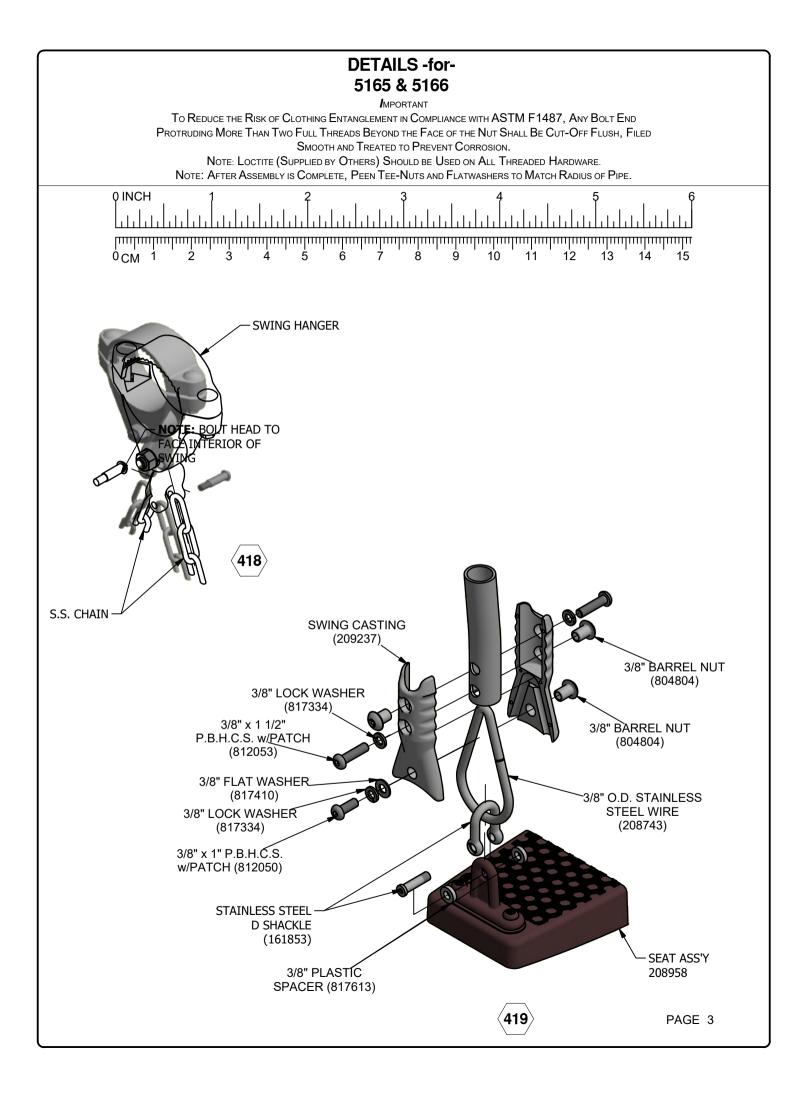
* Included in Hardware

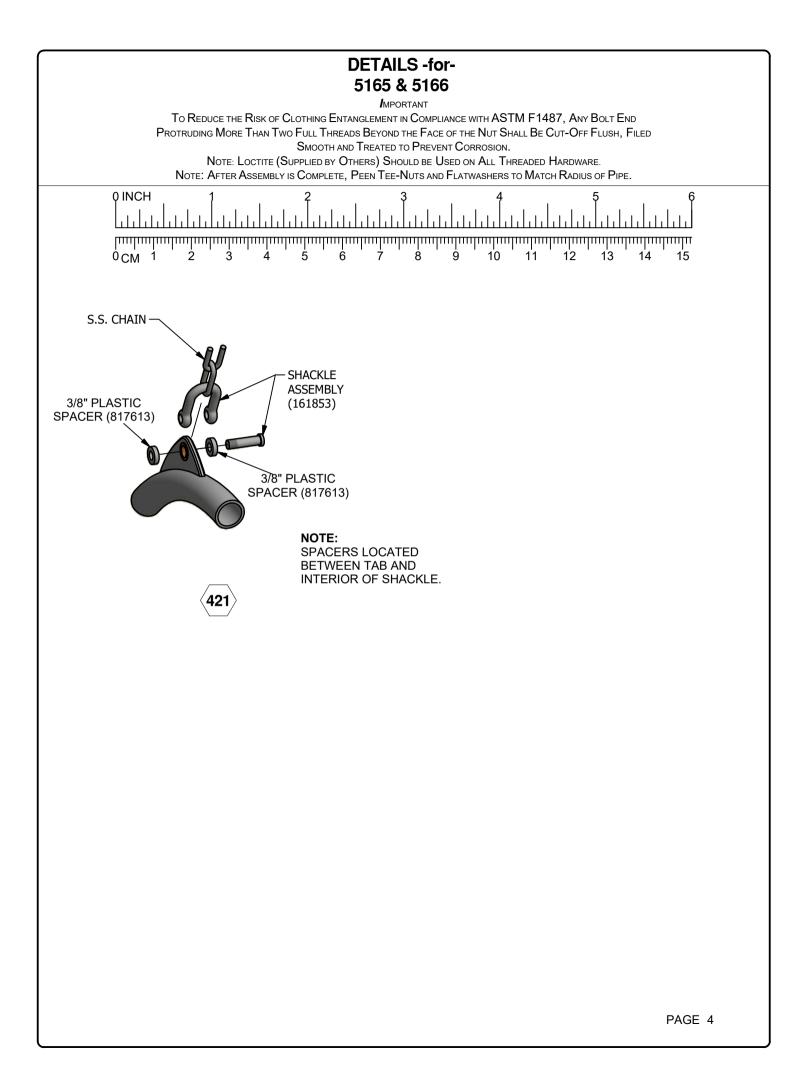
**Included in Expression Swing W/ Adaptive Seat Package 213059

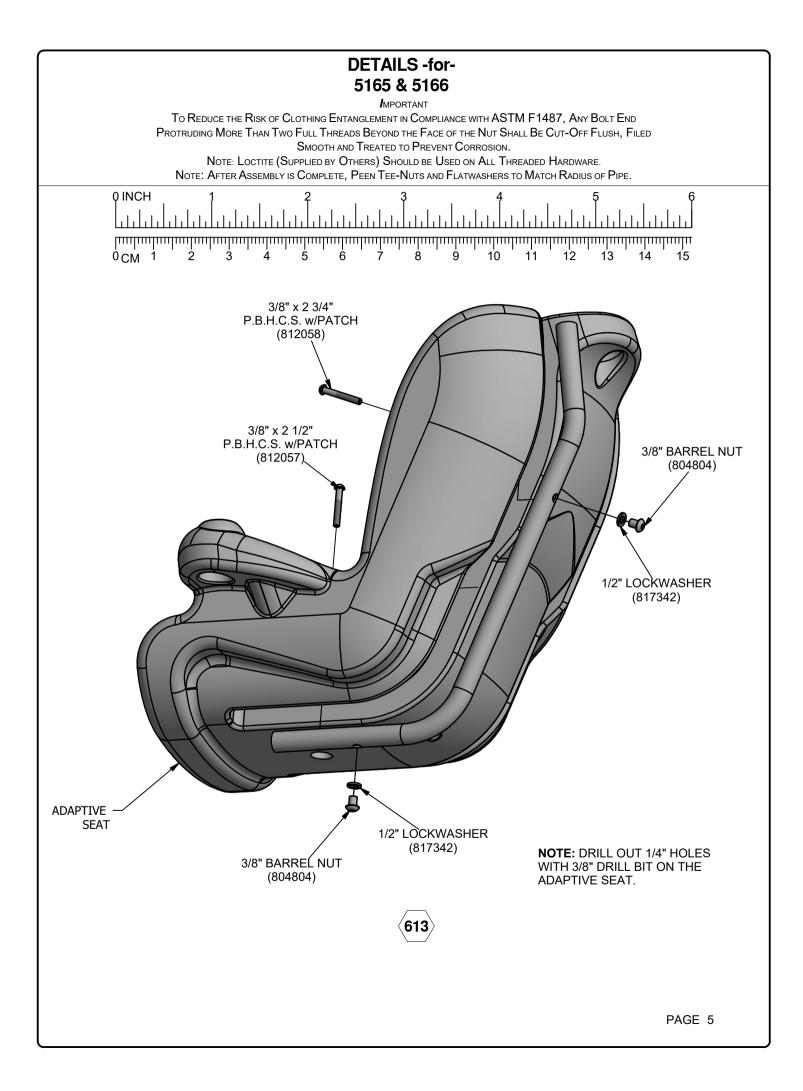
Included in Adaptive Seat Package 3 1/2" Top Rail 213062 *Included in Adaptive Seat Package 5" Top Rail 213063

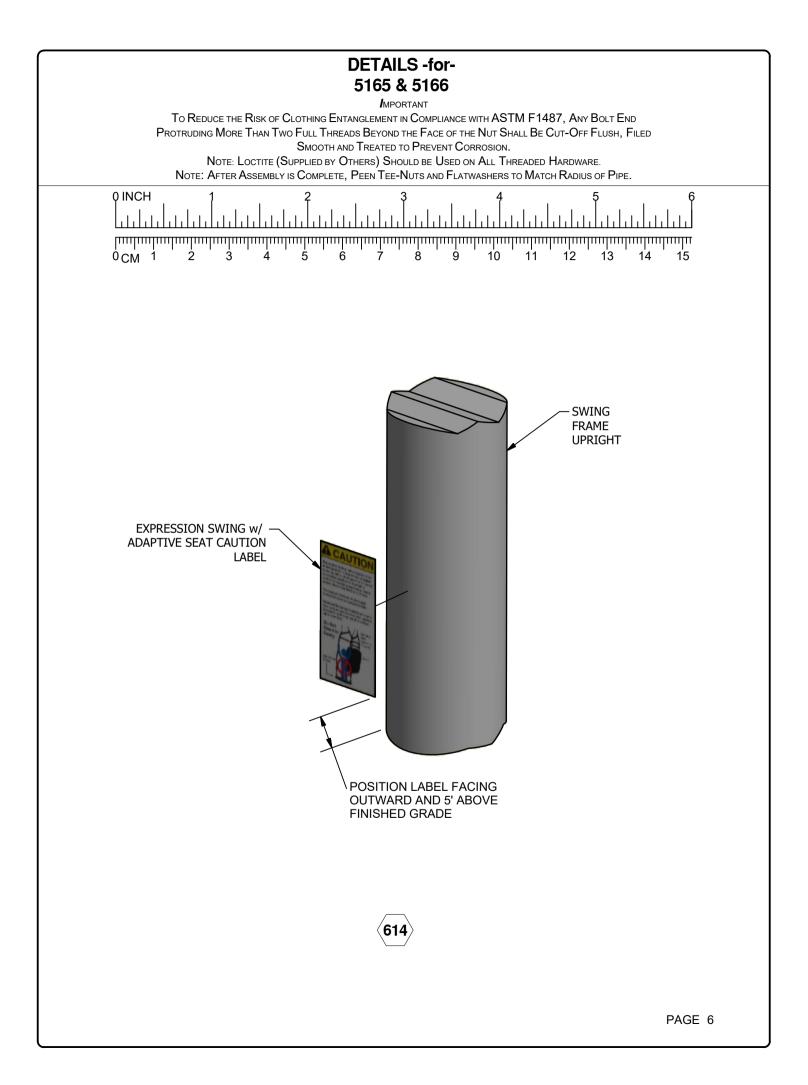
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.











Enriching Childhood Through Play... 1-800-235-2440

8691 SEAT

ISSUED/REVISED: 10/30/17

= INSTALLATION DETAIL

= PARTS LIST REFERENCE



8695, 8696, 8914, SS8914, SS8695, SS8696

BELT SEAT8691FULLY ENCLOSED SEAT86938695, 8696, 8908, 8909, 8910, 8911,8914, 8918, SS8914, SS8695,SS8696, SS8918, SS8908, SS8910,SS8909, SS8911SEAT PACKAGES



8908, 8909, 8910, 8911, 8918, 8915, SS8918, SS8908, SS8910, SS8909, SS8911

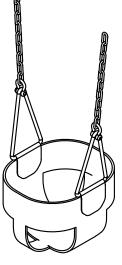


8691

SPECIFICATIONS

*Rights are reserved to disontinue or change specifications without notice.
*Fully Enclosed Seats shall be fabricated with .025" thick stainless steel inserts covered by a dark green colored EPDM rubber.
*Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper.

***NOTE:** Weights are based on average comparisons of each part.



<u>8693</u>



AND SAFETY WARNINGS



□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ All protruding nuts and bolts should be covered; sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.

	NO. F	NO. REQD		
DESCRIPTION	8693	8691	NO.	
Belt Seat	0	1	153738	
Enclosed Tot Seat	1	0	153746	
Hardware Complete	1	1	167359	
Swing Clevis	2	2	166683*	
1/2" Pin-In Hex Bit (5/16")	1	1	812644*	

PARTS LIST -for- SEATS

PARTS LIST -for- SEAT PACKAGES

	NO	PART			
DESCRIPTION	8914	8695	8696	NO.	
Enclosed Tot Seat	1	1	1	8693	
Swing Hanger (2-3/8" O.D.)	0	2	0	1461	
Swing Hanger (3-1/2" O.D.)	0	0	2	1462	
Swing Hanger (5" O.D.)	2	0	0	1487	
Chain	2	2	2	131904	

Unless otherwise specified, all units of measure are each. *Included in Hardware Complete.

NOTE: "CC" prefix before package number indicates seat with coated chain. Note: Loctite (supplied by others) should be used on all threaded hardware.

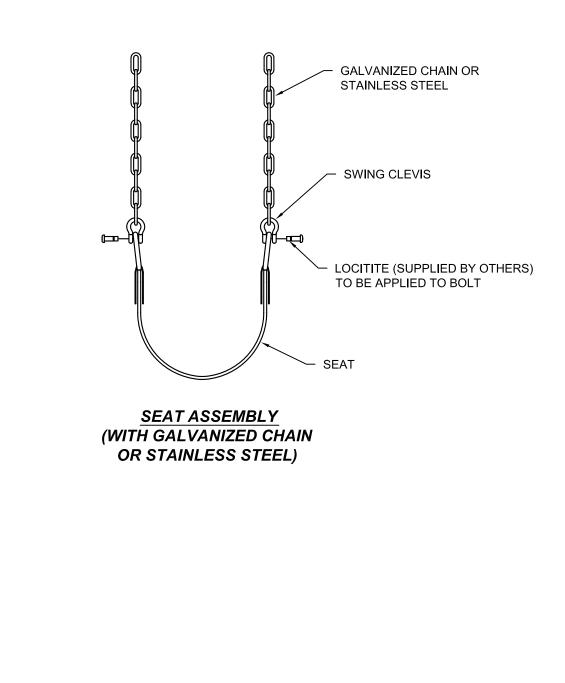
PARTS LIST -for- SEAT PACKAGES

		NO. REQUIRED				PART			
DESCRIPTION	8691	8918	8908	8910	8909	8911			NO.
Belt Seat	1	1	1	1	1	1			8691
Swing Hanger (2-3/8" O.D.)	0	0	2	0	2	0			1461
Swing Hanger (3-1/2" O.D.)	0	0	0	2	0	2			1462
Swing Hanger (5" O.D.)	0	2	0	0	0	0			1487
Chain	0	2	0	0	0	0			103052
Chain	0	0	2	2	0	0			166892
Chain	0	0	0	0	2	2			153867
Swing Clevis	2	2	2	2	2	2			166683*
1/2" Pin-In Hex Bit (5/16")	1	1	1	1	1	1			812644*
	SS8914	SS8695	SS8696	SS8918	SS8908	SS8910	SS8909	SS8911	
Enclosed Tot Seat	1	1	1	0	0	0	0	0	8693
Belt Seat	0	0	0	1	1	1	1	1	8691
Swing Hanger (2-3/8" O.D.)	0	2	0	0	2	0	2	0	1461*
Swing Hanger (3-1/2" O.D.)	0	0	2	0	0	2	0	2	1462*
Swing Hanger (5" O.D.)	2	0	0	2	0	0	0	0	1487*
Stainless Steel Chain	0	0	0	2	0	0	0	0	177993*
Stainless Steel Chain	2	2	2	0	0	0	0	0	177994*
Stainless Steel Chain	0	0	0	0	2	2	0	0	177991*
Stainless Steel Chain	0	0	0	0	0	0	2	2	177990*

Unless otherwise specified, all units of measure are each.

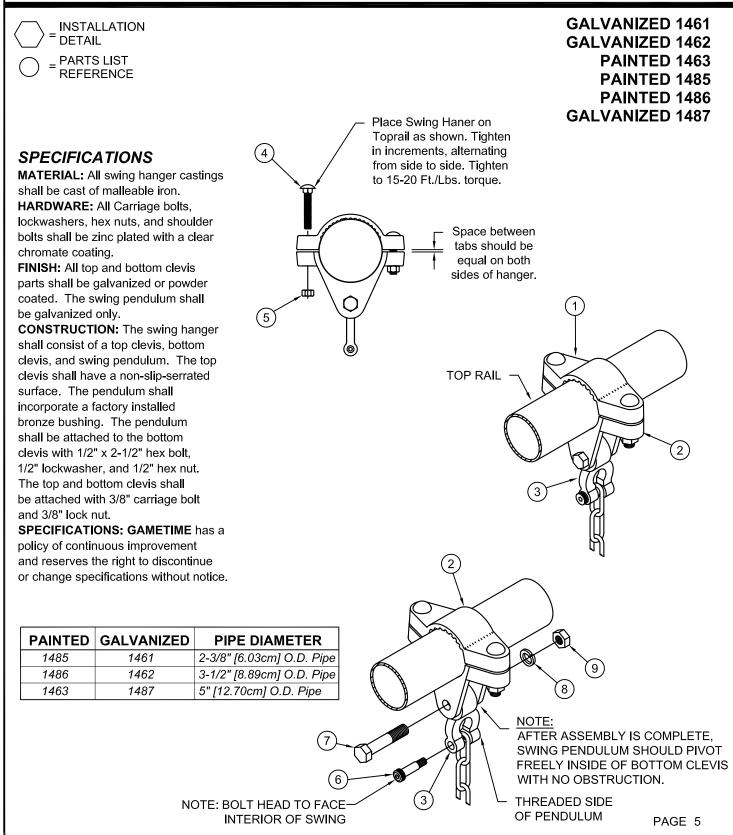
*Included in Hardware Complete.

NOTE: "CC" prefix before package number indicates seat with coated chain. Note: Loctite (supplied by others) should be used on all threaded hardware.



1461 SWING HANGER

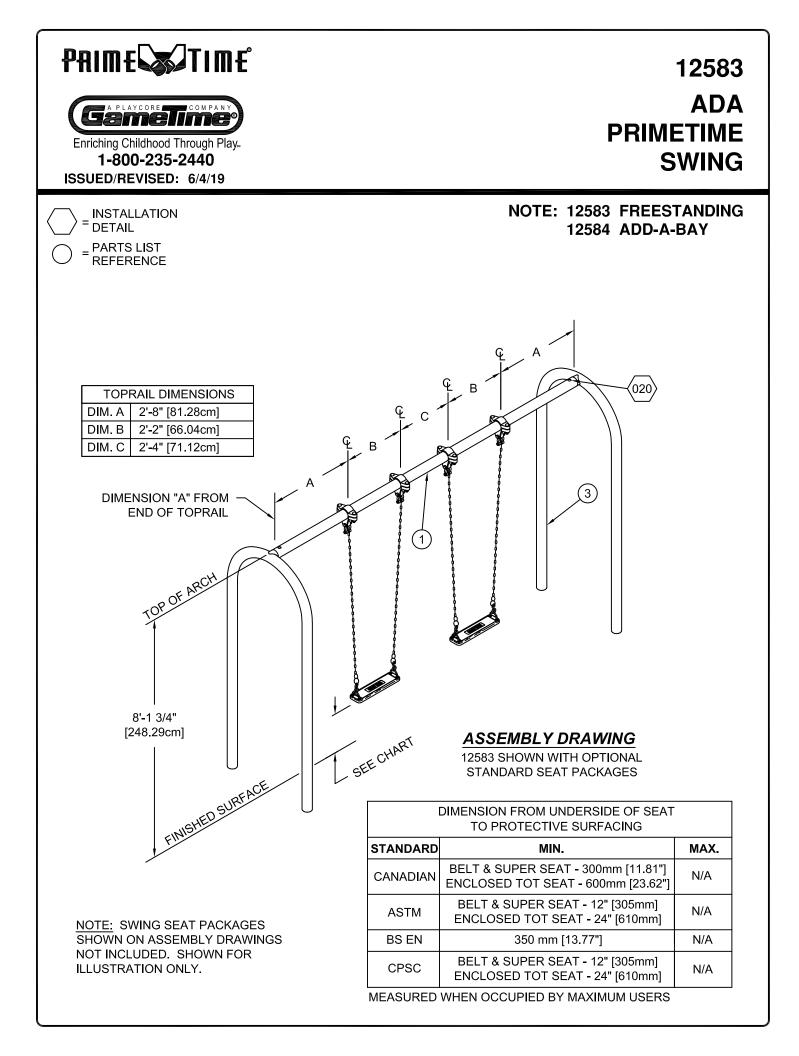
ISSUED/REVISED: 3/15/16

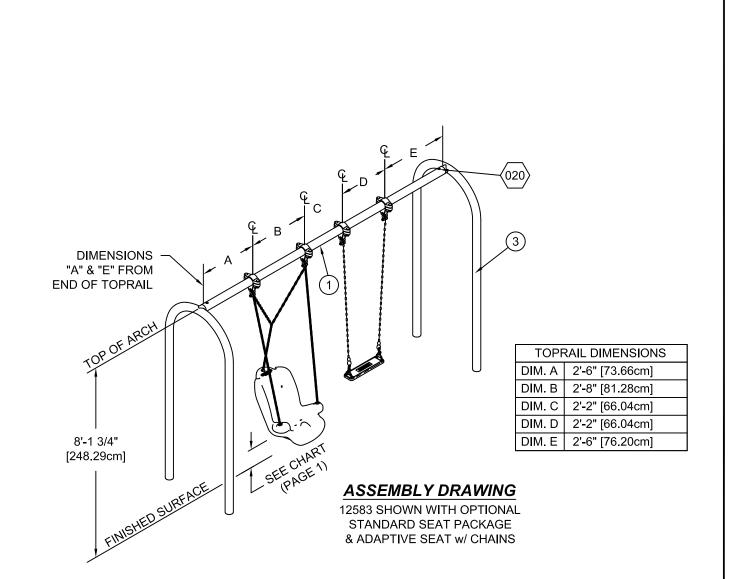


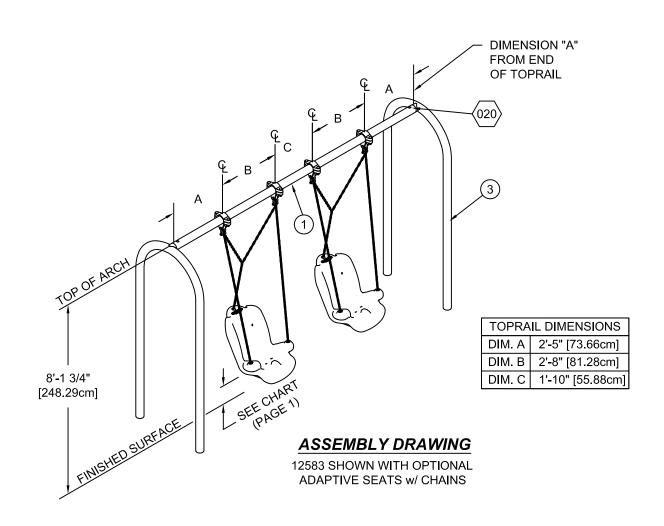
Ref.		NO. REQUIRED					PART	
NO.	DESCRIPTION	1461	1462	1463	1485	1486	1487	NO.
1	Top Clevis	1	0	0	0	0	0	157000
1	Top Clevis	1	1	0	0	0	0	157002
1	Top Clevis	0	0	1	0	0	0	157382
1	Top Clevis	0	0	0	1	0	0	158223
1	Top Clevis	0	0	0	0	1	0	158221
1	Top Clevis	0	0	0	0	0	1	157005
2	Bottom Clevis	1	0	0	0	0	0	157011
2	Bottom Clevis	0	1	0	0	0	0	157012
2	Bottom Clevis	0	0	1	0	0	0	157383
2	Bottom Clevis	0	0	0	1	0	0	158233
2	Bottom Clevis	0	0	0	0	1	0	158230
2	Bottom Clevis	0	0	0	0	0	1	157013
3	Swing Pendulum	1	1	1	1	1	1	157010
4	3/8" x 2" Carriage Bolt	2	2	0	2	2	0	800256
4	3/8" x 1-3/4" Carriage Bolt	0	0	2	0	0	2	800290
5	3/8" Lock Nut	2	2	2	2	2	2	804353
6	3/8" x 1" Shoulder Bolt	1	1	1	1	1	1	811226
7	1/2" x 2-1/2" Hex Bolt	1	1	1	1	1	1	801200
8	1/2" Lockwasher	1	1	1	1	1	1	817342
9	1/2" Hex Nut	1	1	1	1	1	1	804055

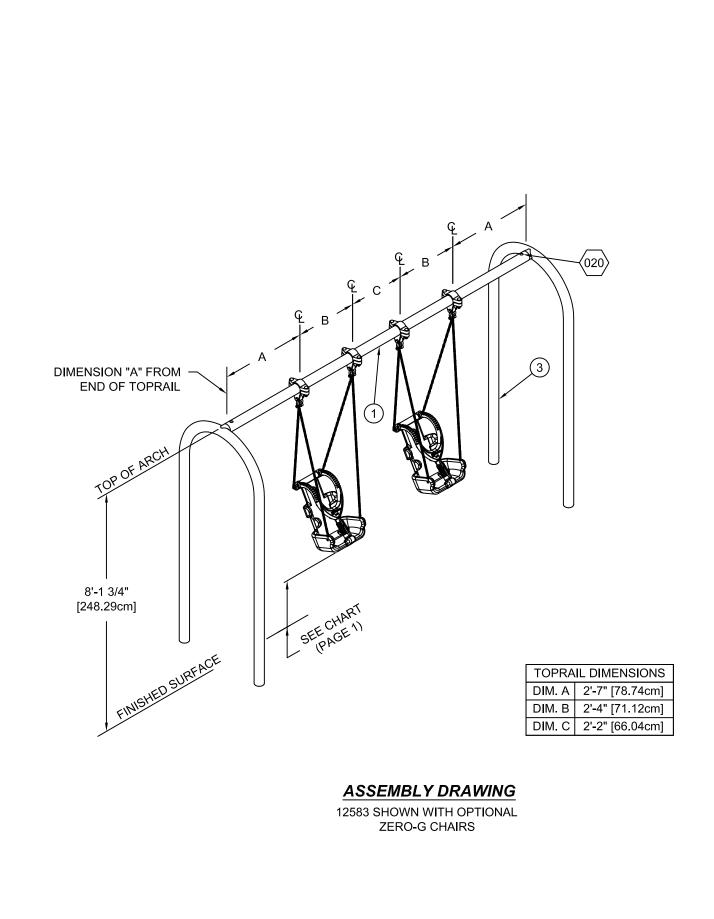
PARTS LIST

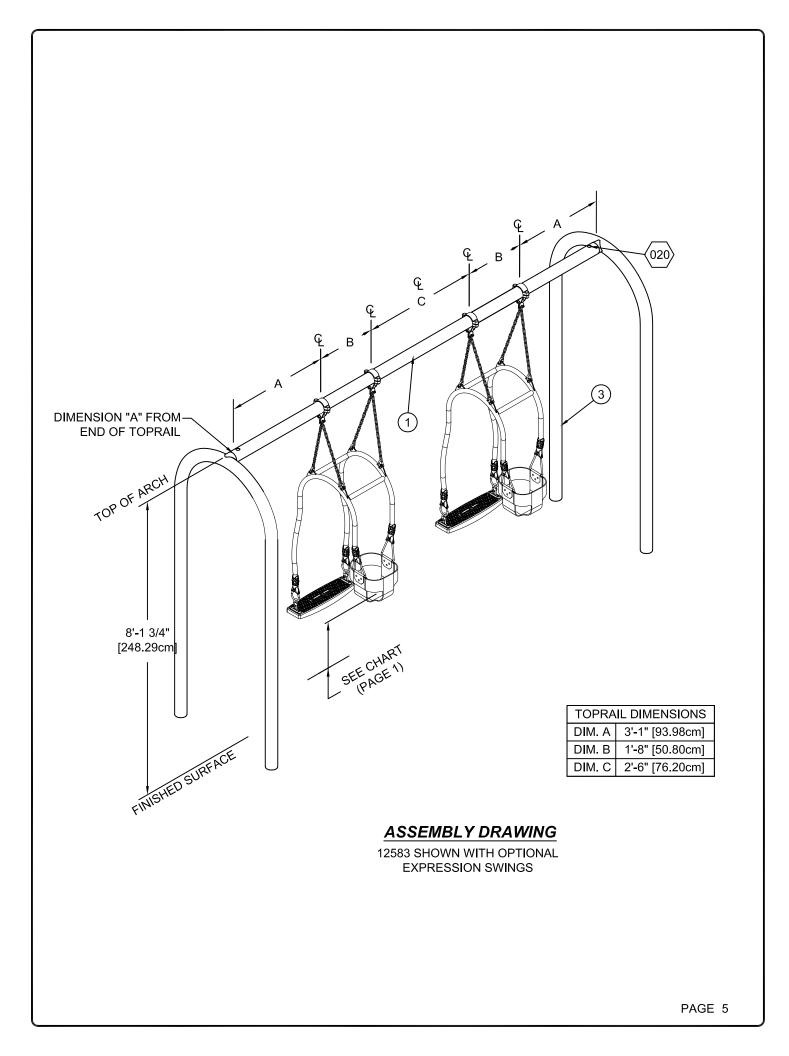
Unless otherwise specified, all units of measure are each. Note: Loctite (supplied by others) should be used on all threaded hardware.

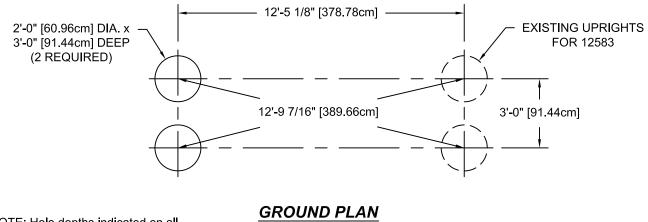








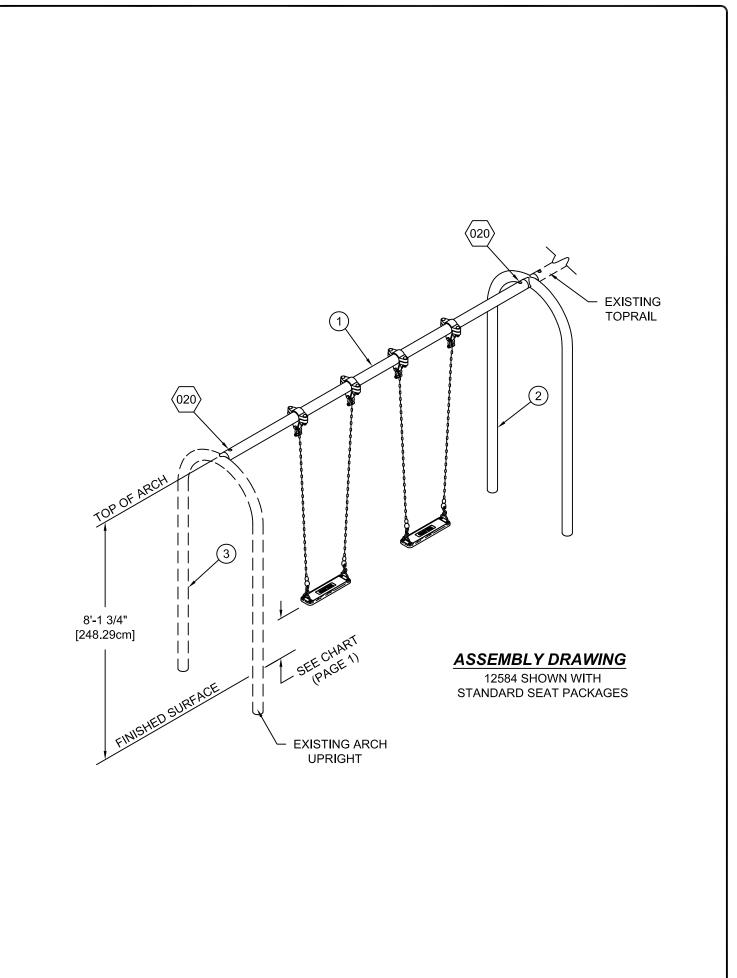


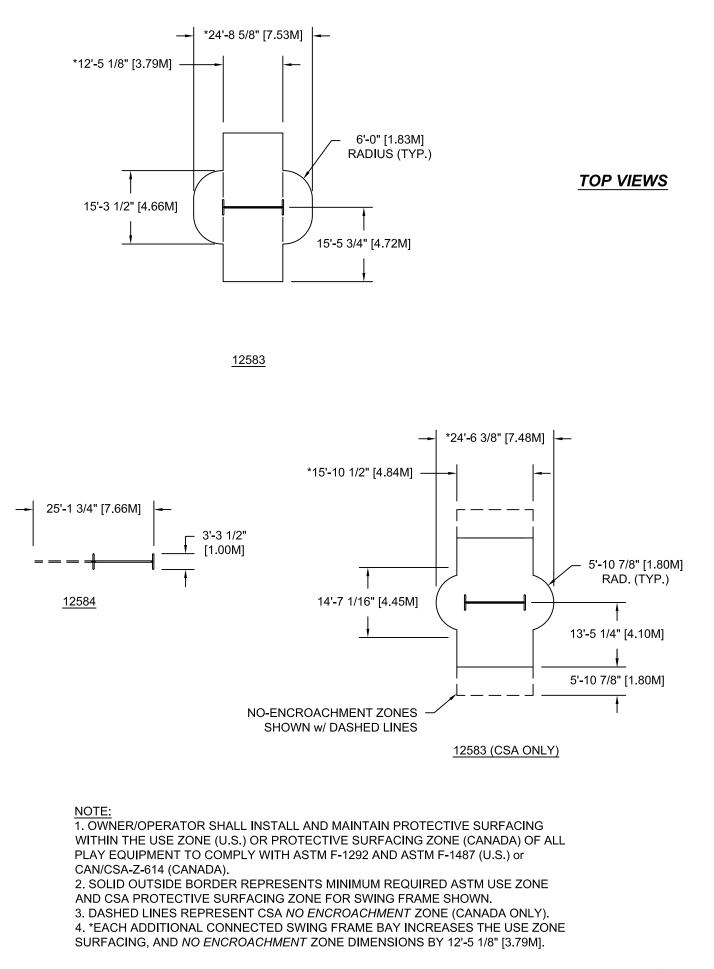


<u>NOTE:</u> Hole depths indicated on all ground plans are measurd from the finished surface. See Detail 005. All footing dimensions are based on level finished surface.

Concrete Required - 12583: .92 Cubic Yards [.70 Cubic Meters]

Concrete Required - 12583/12584: 1.38 Cubic Yards [1.06 Cubic Meters]





SPECIFICATIONS

TOPRAIL AND ARCH: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Arch includes a welded 3-1/8" O.D. galvanized steel sleeve to which the toprail is fastened.

FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or

powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to change specifications without notice.



IMPORTANT PRODUCT INFORMATION STOP

□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE INSTALLATION SHEETS AND INSTALLATION INSTRUCTIONS. THE INSTALLATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.

□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.

□ Replace all worn S-Hooks. S-Hooks must be completely closed. To close S-Hooks properly, use GAMETIME® S-Hook Pliers. Failure to close S-Hooks properly can result in serious injury to the user. Never reuse S-Hooks.

□ Test for free movement of swing hanger and other moving attached parts.

□ Check for worn chains and replace them.

□ Replace worn or damaged seats.

□ A soft, resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat, both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

STEP 1: Dig holes according to the Ground Plan (see Detail 005 also). Place a brick or equivalent at the bottom of the hole to provide a solid foundation. Allow for this in hole depth (see Detail 005).

STEP 2: Insert toprail onto socket on the arch and secure with 1/2" x 4" hex head bolt, 1/2" flatwasher, 1/2" lockwasher and 1/2" hex nut. Bolt head should recess inside oversize hole as shown in Detail 020.

STEP 3: Set frame in holes, making sure that legs rest on foundation bricks. Check to ensure swing is level.

STEP 4: Fill holes with concrete per Detail 005. Plumb and brace assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

STEP 5: Place swing hangers on toprail using Assembly Drawing for spacing. Hang seats per Installation Sheet for swing seats.

STEP 6: After assembly is complete, place manufacturer's I.D. label in a visible location.

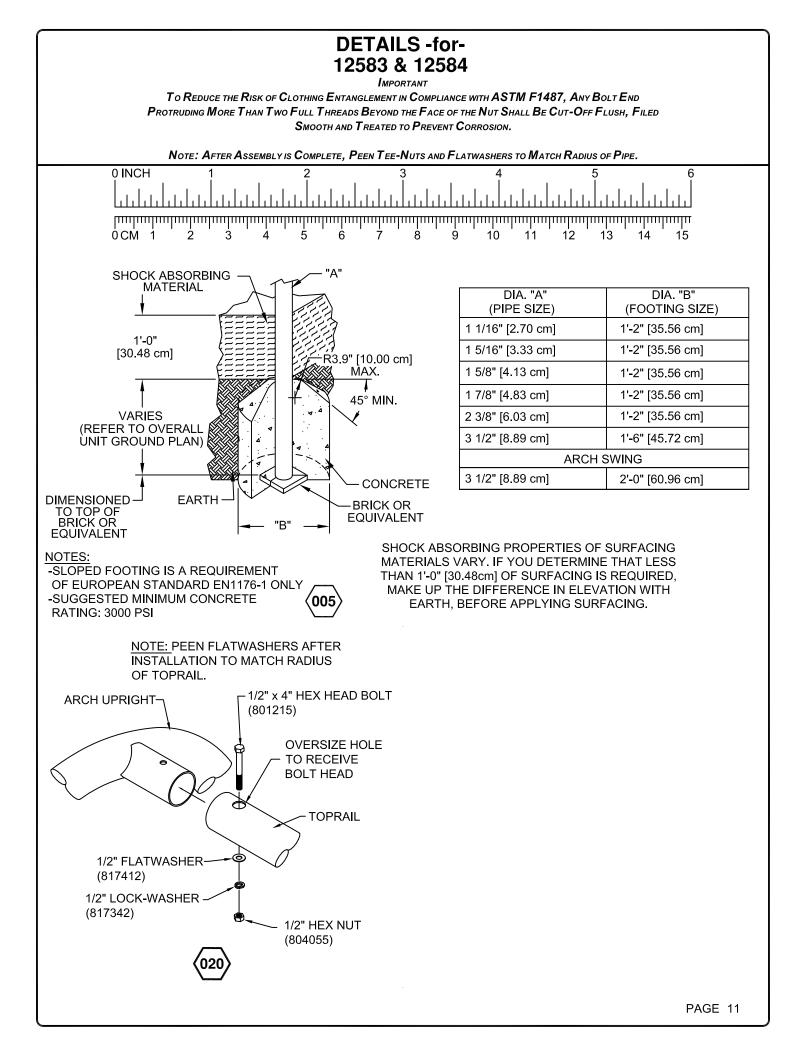
REF.		NO. REQ'D		PART
NO.	DESCRIPTION	12583	12584	NUMBER
1	3-1/2" O.D. Toprail	1	1	168622
2	Multi-Bay Arch Upright Ass'y	0	1	152805
3	Arch End Upright Ass'y	2	0	152803
	Hardware Complete	1	1	152821
	1/2" x 4" Hex Bolt	2	2	801215*
	1/2" Lockwasher	2	2	817342*
	1/2" Hex Nut	2	2	804055*
	1/2" Flatwasher	2	2	817412*
	Manufacturer I.D. Label	1	1	159151*

PARTS LIST

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Loctite (supplied by others) should be used on all threaded hardware.





General System Specifications:

The uprights shall be factory drilled to ensure accurate placement of components and ease of installation. Field drilling and measuring are not required. GT Events are direct bolt products NOT a clamp system. All uprights shall receive factory installed aluminum post caps and shall be shipped with a factory applied label indicating proper surfacing level.

All decks and components shall connect to support posts by means of a through-bolt connection for strong, durable connections. Deck/Collar attachments shall not be acceptable.

Manufacturer shall offer the following warranties on the materials and components of its system:

- LIFETIME LIMITED WARRANTY ON SUPPORT POSTS (UPRIGHTS)
- 15 YEAR LIMITED WARRANTY ON PUNCHED STEEL DECKS, PIPES, RAILS, LOOPS AND RUNGS
- 15 YEAR LIMITED WARRANTY ON ROTOMOLDED POLYETHYLENE COMPONENTS
- LIFETIME LIMITED WARRANTY ON POWERLOCK AND HARDWARE

Manufacturer shall be ISO 9001/2008 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-17

Motion

SPINNING SENSORY WAVE SEAT

SENSORY WAVE SEAT: shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-155); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM-638); Flexural Modulus (ASTM- D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

BEARING ASSEMBLY: Shall be an all welded assembly constructed of 1/4" H.R.steel plate, and a hub machined from C.R. steel. Two bearings shall be press fit into the weld assembly.

POST WELD ASSEMBLY: Shall be an all welded assembly constructed of 2" SCH40 galvanized steel pipe, 1/4" thick H.R. steel plate, and a shaft machined from H.R. steel.

FINISH: The assemblies coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HARDWARE: All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel.Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

NOTE: All weights are based on average comparisons of each part.



SPECIFICATIONS: GAMETIME has a policy of continuous improvements and reserves the right to discontinue or change specifications without notice.

Sensory Wave

SENSORY WAVE

SENSORY WAVE ROTOMOLDED PARTS: The sensory wave rotomolded components shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

SENSORY WAVE FOOTBUCKS: The Sensory Wave footbucks shall be all weld assemblies fabricated from 3 ¹/₂" O.D. X .095" (13 gauge) wall galvanized steel tubing and ¹/₄" Hot Rolled flat steel coated with TGIC powder coat outlined herein.

Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

Swings

POWERSCAPE SWING TOPRAIL AND ARCH Shall be fabricated of 5" O.D. (.12W) galvanized steel tubing. Arch includes a swaged 5" O.D. (.12W) galvanized steel tubing to which the toprail is fastened.

FINISH

Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE

All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc



plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS

GAMETIME® has a policy of continuous improvement and reserves the right to change specifications without notice.

ECHO

EKW02I

UPRIGHT INSERT ASSEMBLIES 1-8: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing. Upright Insert Assemblies 1-8 shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

DECK SUPPORT PIPE: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing. Deck Support Pipe shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HAND CYCLER ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing, 11 Gauge H.R. Steel, and 14 Gauge H.R. Steel. The Hand Cycler Post Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.Included in Hand Cycler Assembly is 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene, 3/4" thick(solid) high density, UV-stabilized and color impregnated polyethylene, 1/4" Stainless Steel Ball, Bronze Bearing, and Rubber-Coated Polypropylene Plastic Star Knob.

COATED ECHO DECK: The deck shall be fabricated in conformance with the punched steel specifications outlined herein. Thedeck frame shall be fabricated from .109" (12 Gauge) Thick H.R. Steel with corner plates fabricated from .109" (12 Gauge) Thick H.R. Steel. Intermediate supports, fabricated from .109" (12 Gauge) Thick H.R Steel, shall be notched and welded at the intersections. The deck shall be a one-piece welded assembly, coated after fabrication with an oven cured matte finish polyvinylchloride (PVC) coating in accordance with the specifications herein.

COATED ECHO DECK WITH SLOTS: The deck shall be fabricated in conformance with the punched steel specifications outlined herein. The deck frame shall be fabricated from .109" (12 Gauge) Thick H.R. Steel with corner plates fabricated from .109" (12 Gauge) Thick H.R. Steel. Intermediate supports, fabricated from .109" (12 Gauge) Thick H.R Steel, shall be notched and welded at the intersections. The deck shall be a one-piece welded assembly, coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating in accordance with the specifications herein.

COATED ECHO ANGLE DECK WITH SLOTS: The deck shall be fabricated in conformance with the punched steel specifications outlined herein. The deck frame shall be fabricated from .109" (12 Gauge) Thick H.R. Steel with corner plates fabricated from .109" (12 Gauge) Thick H.R. Steel, shall be notched and welded at the intersections. The deck shall be a one-piece welded assembly, coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating in accordance with the specifications herein.

WALKING RAIL ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing and threaded crimped insert. Walking Rail Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HANDHOLD WELD ASSEMBLY (217615): Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Handhold Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SMALL BELL WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing, 16 Gauge Thick H.R. Steel, and Threaded Crimped Insert. Small Bell Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlinedherein.



MEDIUM BELL WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing, 16 Gauge Thick H.R. Steel, and Threaded Crimped Insert. Medium Bell Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlinedherein.

SPIN CHIME BELL ASSEMBLY: Shall be fabricated from 16 Gauge Galvaneal H.R. Steel, 3/8" x 5" 300 Series Stainless Steel Threaded Rod, 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, and a purchased oil impregnated bronze insert. Spin Chime Bell Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

BELL PANEL PLATE: Shall be fabricated from 12 Gauge Thick H.R. Steel. Bell Panel Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

BELL HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

MUSIC NOTE HDPE: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

AURA SPINCHIME HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SPIN CHIME HDPE COVER: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

CRAWL TUNNEL WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing, 1/8" Thick H.R. Steel, and 14 Gauge Thick H.R. Steel. Crawl Tunnel Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

CRAWL TUNNEL CENTER SUPPORT SWAGE PIPE: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing. Crawl Tunnel Center Support Swage Pipe shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

TABBED CRAWL TUNNEL SUPPORT WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing and 1/8" Thick H.R. Steel. Tabbed Crawl Tunnel Support Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specificationsoutlined herein.

CRAWL TUNNEL SUPPORT SWAGE PIPE: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing. Crawl Tunnel Support Swage Pipe shall be coated after fabrication with a custom formula of TGIC polyester powder coatingin conformance with the specifications outlined herein.

COATED CRAWL TUNNEL PANEL: Shall be fabricated from 12 Gauge Thick H.R. Steel that has been coated using an oven fused functionalized polyethylene copolymer-based thermoplastic. Fluidized bed coating application with superior mechanical performance, impact resistance and UV-stability.

WATERCAN SLIDER SWEEP WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Watercan Slider Sweep Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

BRACE WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing and 14 Gauge Thick H.R. Steel. Brace Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein. TAB: Shall be fabricated from 1/8" Thick H.R. Steel. Tabs shall be coated after fabrication with a custom formula of TGIC polyesterpowder coating in conformance with the specifications outlined herein.



GARDEN HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE SLIDER WATERCAN: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE QUIRKY CIRCLE: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

TUNNEL CLIMBER HDPE ENTRY: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.PANEL MOUNT WELD ASSEMBLY: Shall be fabricated from 1-5/8" O.D. x .109" (12 Gauge) wall galvanized steel tubing and 1/8"Thick H.R. Steel. Panel Mount Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

DECK TO PANEL MOUNT WELD ASSEMBLY: Shall be fabricated from 3/16" Thick H.R. Steel and 1/4" Thick H.R. Steel. Deck To Panel Mount Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SOCKET WELD ASSEMBLY: Shall be fabricated from 1-5/8" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 1-5/8" O.D. x .140" wall galvanized steel tubing (SCH 40), and 3/16" Thick H.R. Steel. Socket Weld Assembly shall be an all weld assembly andshall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specificationsoutlined herein.

WHIMSY WALL HDPE CLIMBER: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE QUIRKY GRIP: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE QUIRKY GRIP SPACER: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SEAT SUPPORT WELD ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Seat Support Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

TABLE BRACKET WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing and 14 Gauge Thick H.R. Steel. Table Bracket Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

DISCOVERY HDPE TABLE: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE SEAT: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SHAPES BUBBLE HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.CLEAR BUBBLE 18" DIA: Shall be made from 1/8" thick Clear Polycarbonate.

WRINKLE CLIMBER ENTRYWAY WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 3/16" Thick H.R. Steel, 14 Gauge Thick H.R. Steel, and Threaded Crimped Insert. Wrinkle Climber Entryway Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

WRINKLE CLIMBER WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing, 11 Gauge Thick H.R. Steel, and 3/16" Thick H.R. Steel. Wrinkle Climber Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

FORMED PANEL: Shall be fabricated from 11 Gauge Thick H.R. Steel. Formed Panel shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.



WRINKLE CLIMBER HDPE: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

WRINKLE CLIMBER HDPE ENTRYWAY: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SLIDE: Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

SLIDE FOOTBUCK WELD ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 11 Gauge Thick H.R. Steel. Slide Footbuck Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

AURA SLIDE HDPE BARRIER: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

THREE IN A ROW: Panel shall be color-impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein. Three In A Row shall be made from 3/4" thick (solid) high density, UV-stabilized and colorimpregnated polyethylene. Some Three In A Row also includes Chrome Plated Steel or Polycarbonate.

12" POLYCARBONATE YELLOW PANEL: Purchased 1/4" Polycarbonate Panel

AURA GIZMO HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE BUBBLE WING: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

FORMED ROOF ATTACHMENT WELD ASSEMBLIES: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Formed Roof Attachment Weld Assemblies shall be all weld assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specificationsoutlined herein.

FORMED ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLIES: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Formed Angle Cut Roof Attachment Weld Assemblies shall be all weld assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Angle Cut Roof Attachment Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HDPE ROOF: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

PUNCHED STEEL DECKS AND PVC COATED COMPONENTS: All punched steel products shall be fabricated from 12 Gauge punched steel with a protective p&o finish. Coated products shall consist of a welded assembly with an oven cured matte finish polyvinyl chloride (PVC) coating with a minimum coating thickness of .080". All decks shall be exclusively dipped utilizing the DuraWear process with an extra thick coating on the top of the deck. The PVC coating shall have a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. The PVC coating shall containpthalate levels in concentrations of 1/10 of 1% or lower. For ADA Ramp Accessible decks and ramps, the hole shall measure 1/4" diameter after coating. For standard decks and ramps, the hole size shall measure 1 1/4" diameter after coating.



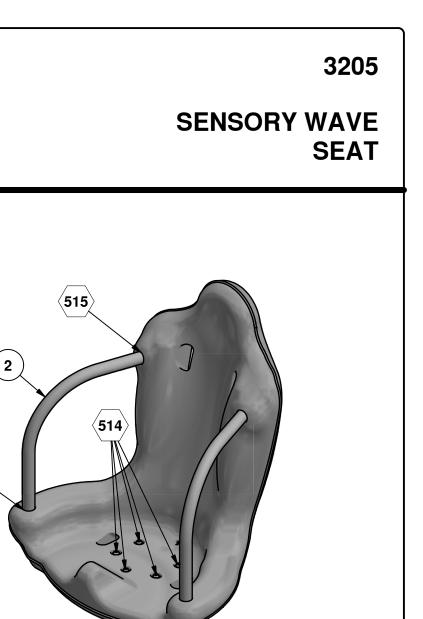
POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all playequipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on averagecomparisons of each part.

Swings

ZERO-G CHAIR

The Zero-G Chair shall be rotationally molded with linear low-density polyethylene conforming to the specifications herein. The Zero-G Chair shall incorporate a "Roller Coaster" style Brace and Latch to secure the user in place. The Brace and Latch shall be rotationally molded with linear low-density polyethylene conforming to the specifications herein. The Zero-G Chair shall be offered with two chain hanging options. The Galvanized chain option shall be fabricated from standard 7/32" diameter steel wire chain. The chain shall be hot dipped galvanized. The Stainless Steel chain option shall be fabricated from standard 7/32" diameter stainless steel wire chain.



***OWNER/OPERATOR SHALL INSTALL AND** MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F1292 AND ASTM F1487 (U.S. OR CAN/CSA-Z614 (CANADA)

516

1'- 5/16" [31.35 cm]

GaméTime

1-800-235-2440

ISSUED/REVISED: 9/3/2020

INSTALLATION

REFERENCE

⁼ DETAIL PARTS LIST

This play equipment is

Adult supervision is recommended The CPEC recommends age say playprocess. Reprover a billion separation between 2 in Epsen

FINISHED SURFACE

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*THE ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE DETERMINED BY EXTENDING THE PRODUCT OUTSIDE DIMENSIONS SHOWN A MINIMUM ADDITIONAL DISTANCE OF 6'-0" [1.8M] IN ALL DIRECTIONS. FOR CANADIAN INSTALLATIONS ONLY, AN ADDITIONAL 1.8M LONG (MINIMUM) NO-ENCROACHMENT ZONE IS REQUIRED BEYOND THE PROTECTIVE SURFACING ZONE. 4

UNDERNEATH

3

184

2'-3 3/8" [69.55 cm]

1'-11 3/8" [59.40 cm] -

514

ASSEMBLY VIEW



IMPORTANT PRODUCT INFORMATION STOP

□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

Check to be sure all fittings are tight and that the bars and pipes do not move.

□ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

SPECICIFICATIONS

SENSORY WAVE SEAT: shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-155); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM-638); Flexural Modulus (ASTM- D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

BEARING ASSEMBLY: Shall be an all welded assembly constructed of ¹/₄" H.R.steel plate, and a hub machined from C.R. steel. Two bearings shall be press fit into the weld assembly.

SPINNING SEAT HANDHOLD ASSEMBLY: Shall be constructed out of 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing.

POST WELD ASSEMBLY: Shall be an all welded assembly constructed of 2" SCH40 galvanized steel pipe, ¹/₄" thick H.R. steel plate, and a shaft machined from H.R. steel.

FINISH: The assemblies coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HARDWARE: All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel.Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

NOTE: All weights are based on average comparisons of each part.

SPECIFICATIONS: GAMETIME has a policy of continuous improvements and reserves the right to discontinue or change specifications without notice.

INSTALLATION INSTRUCTIONS

NOTE: THIS SPECIFICATION BOOKLET SHOULD BE KEPT IN CUSTOMERS FILE FOR FUTURE REFERENCE.

NOTE: Do not over tighten bolts. To over tighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due t extremes in weather and soil conditions, hole may have to be increased to meet local conditions.

STEP 1: Dig required hole. See Ground Plan for correct shape and size.

STEP 2: Fasten the Bearing Assembly to the Post Assembly and attach the Cover Plate and Sensory Wave Seat to the Bearing Assembly using Detail 514.

STEP 3: Attach Spinning Seat Handhold Assembly to Sensory Wave Seat using Detail 515 & 516.

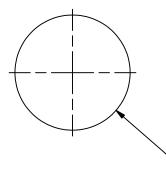
STEP 4: Insert the Anchor Rod into the bottom of the Post Assembly using Detail 184.

STEP 5: Tighten all connections. Plumb and level the Assembly and pour concrete. ALLOW THE CONCRETE TO SET AT LEAST 72 HOURS BEFORE USE.

NOTE: After Installation, the height from bottom of the seat should be 0'-11 9/16" [35.56 cm] above the finished surface.

NOTE: We suggest you retighten all bolts after the unit has been used three to four days.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.



_Ø2'-0" [60.96 cm] X 3'-6" [106.68 cm] DEEP

CONCRETE REQUIRED

.29 CUBIC YARDS

[.22 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

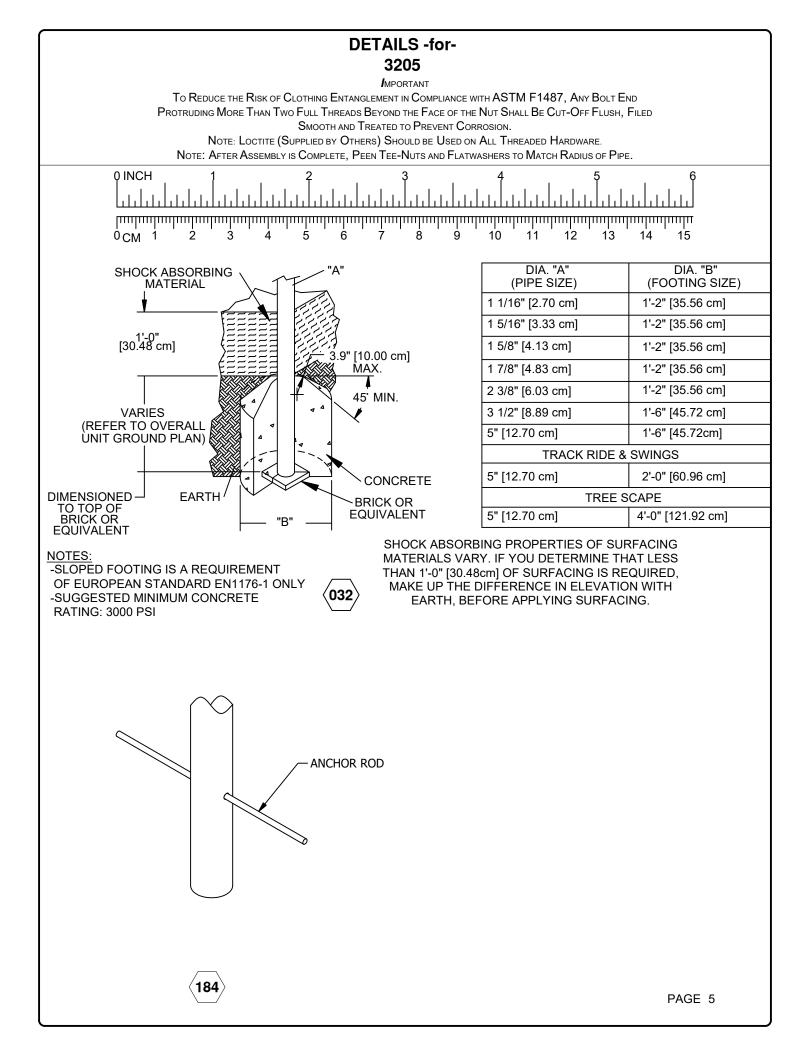
GROUND PLAN

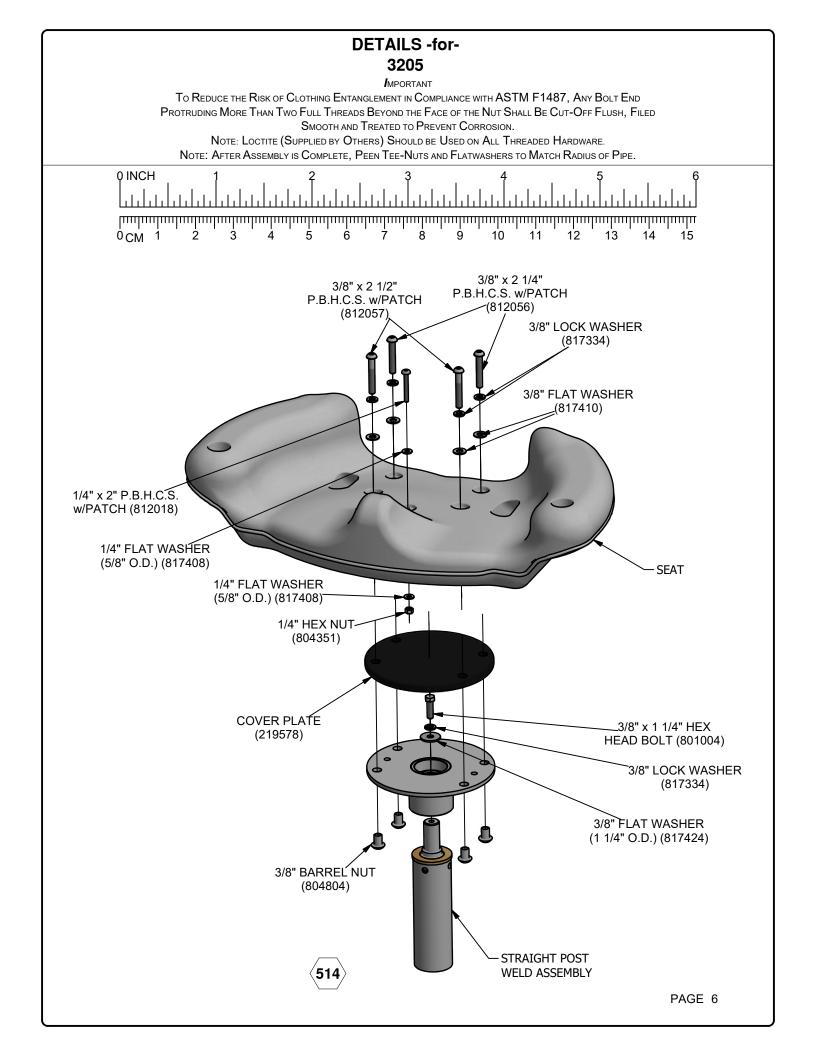
Parts List					
REF.	DESCRIPTION	QTY	PART NUMBER		
1	SENSORY WAVE SEAT	1	211584		
2	SPINNING SEAT HANDHOLD ASS'Y	2	212788		
3	STRAIGHT POST WELD ASS'Y	1	211694		
4	BEARING ASS'Y	1	215654		
	COVER PLATE	1	219578		
	HARDWARE COMPLETE	1	219717		
	1/4" x 2" P.B.H.C.S. w/PATCH	1	812018*		
	1/4" FLAT WASHER (5/8" O.D.)	2	817408*		
	1/4" HEX NUT	1	804351*		
	3/8" x 1 1/4" HEX HEAD BOLT	1	801004*		
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056*		
	3/8" x 2 1/2" P.B.H.C.S. w/PATCH	2	812057*		
	3/8" x 3" P.B.H.C.S. w/PATCH	2	812059*		
	3/8" x 4 1/2" P.B.H.C.S. w/PATCH	2	812077*		
	3/8" FLAT WASHER	8	817410*		
	3/8" FLAT WASHER (1 1/4" O.D.)	1	817424*		
	3/8" LOCK WASHER	9	817334*		
	3/8" BARREL NUT	4	804804*		
	1/2" ANCHOR ROD	1	135038*		

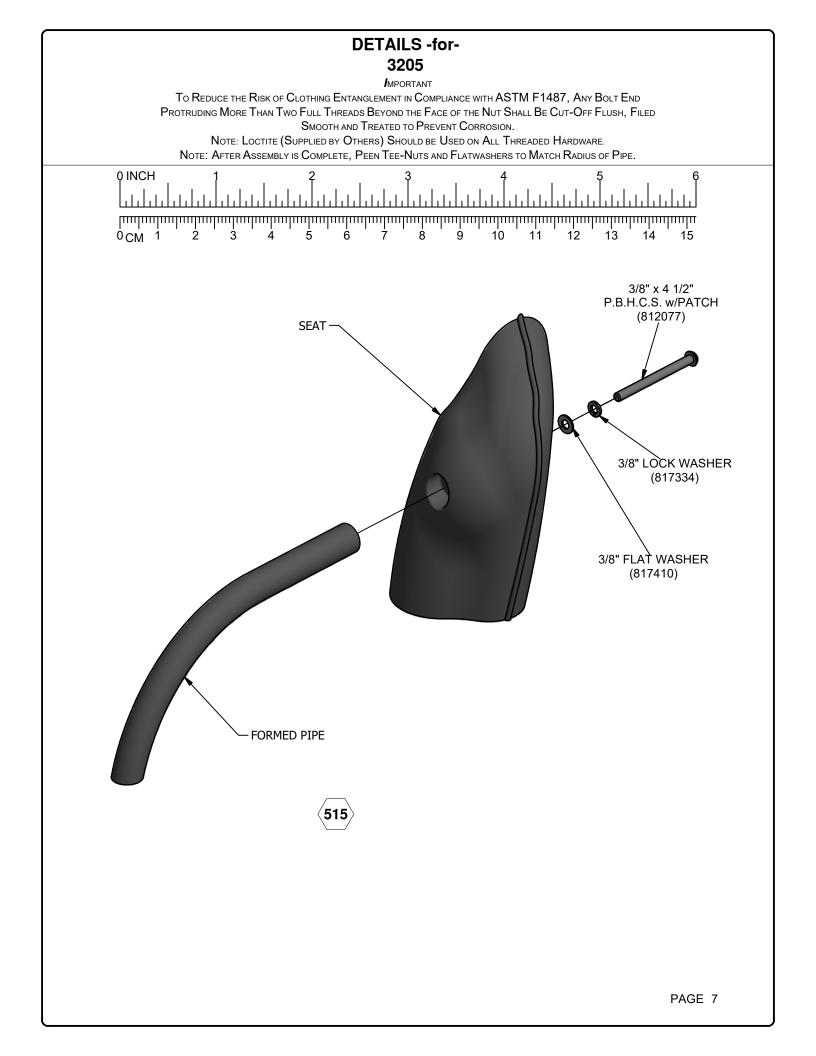
Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

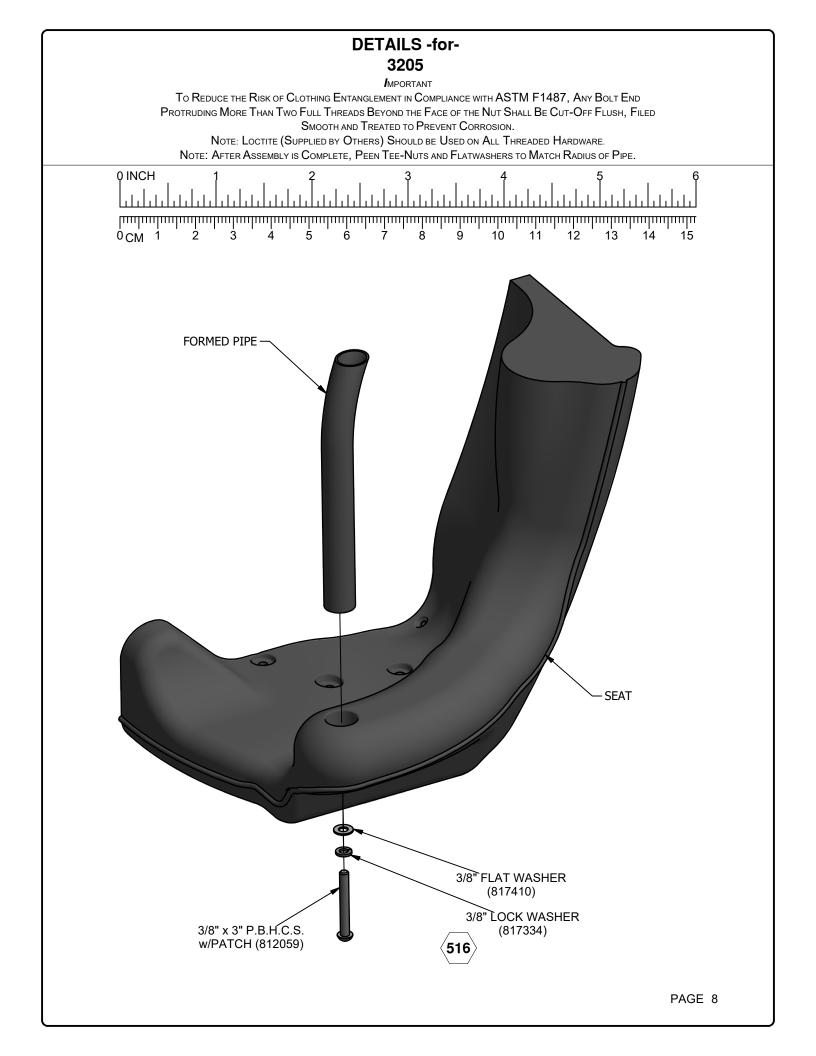
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.





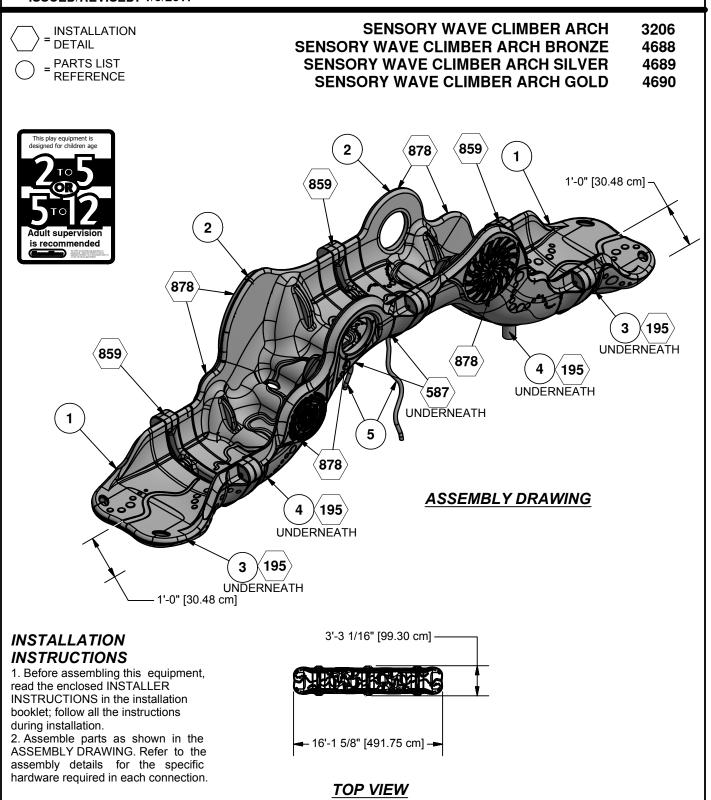




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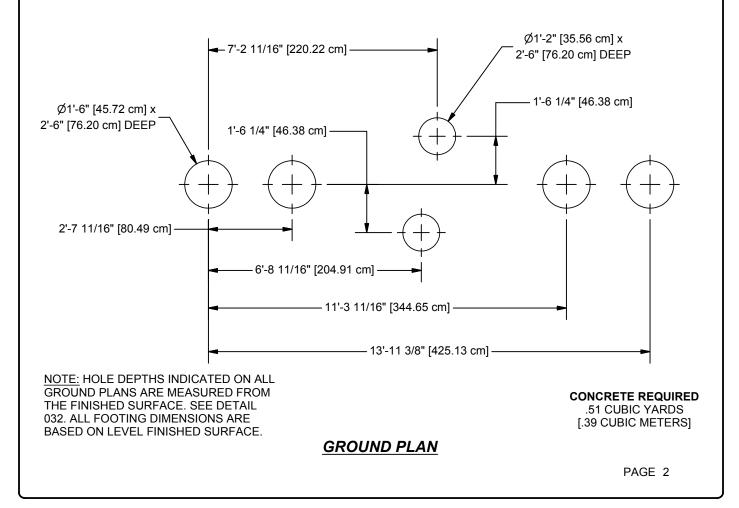
SENSORY WAVE CLIMBER ARCH

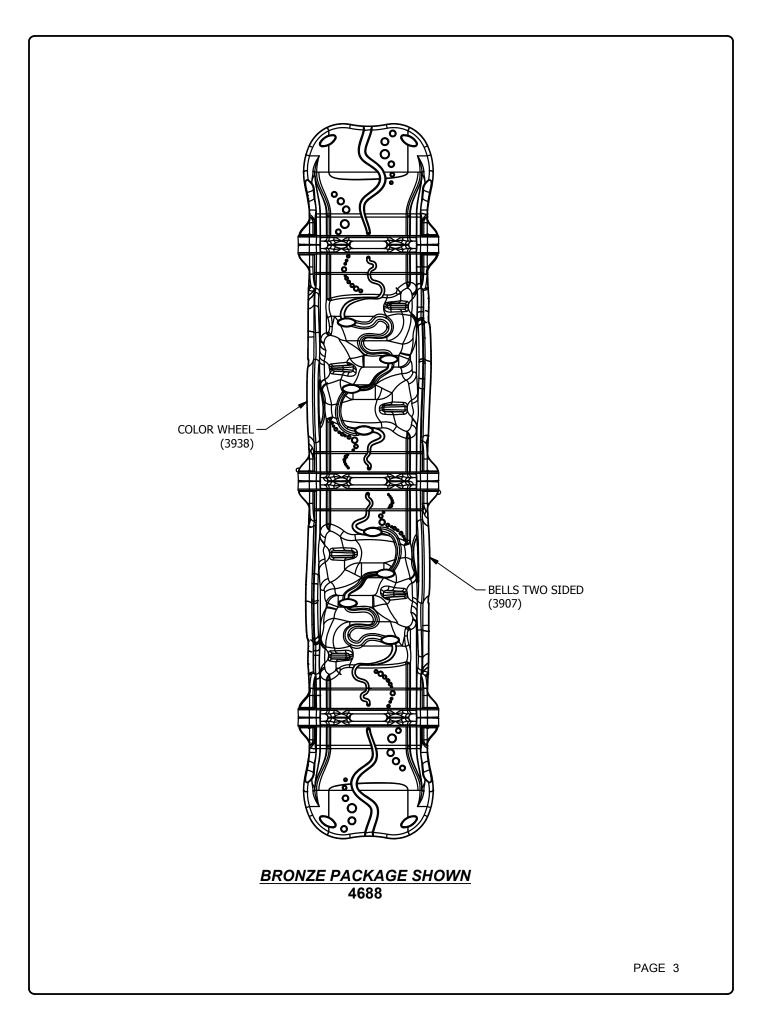


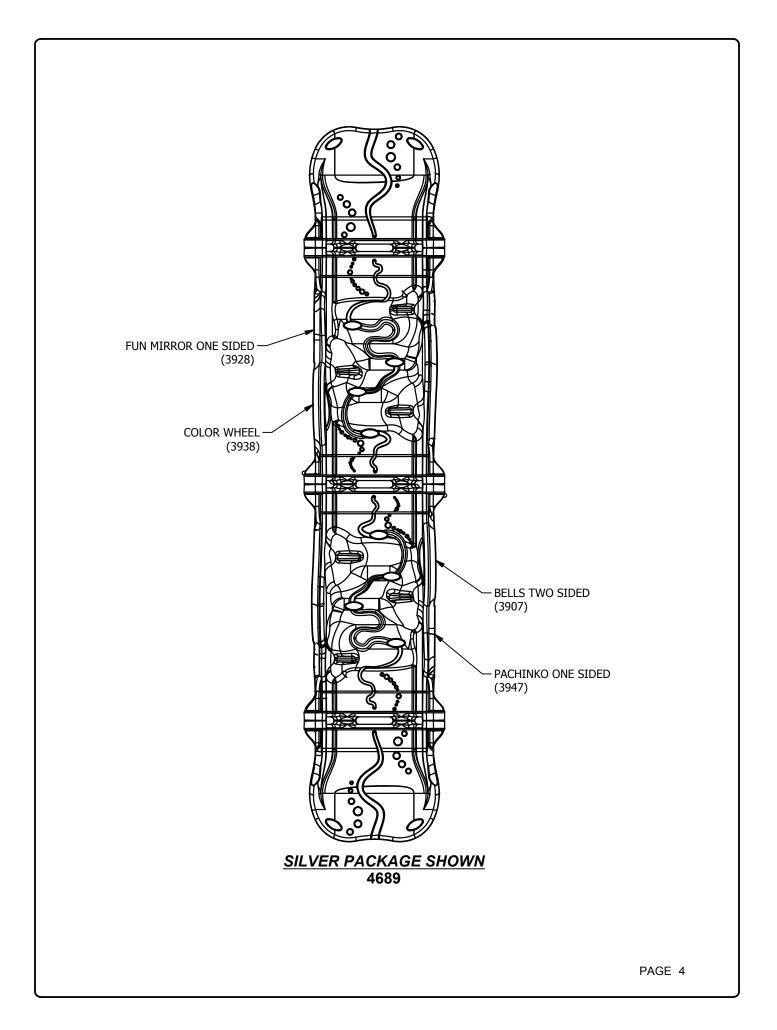


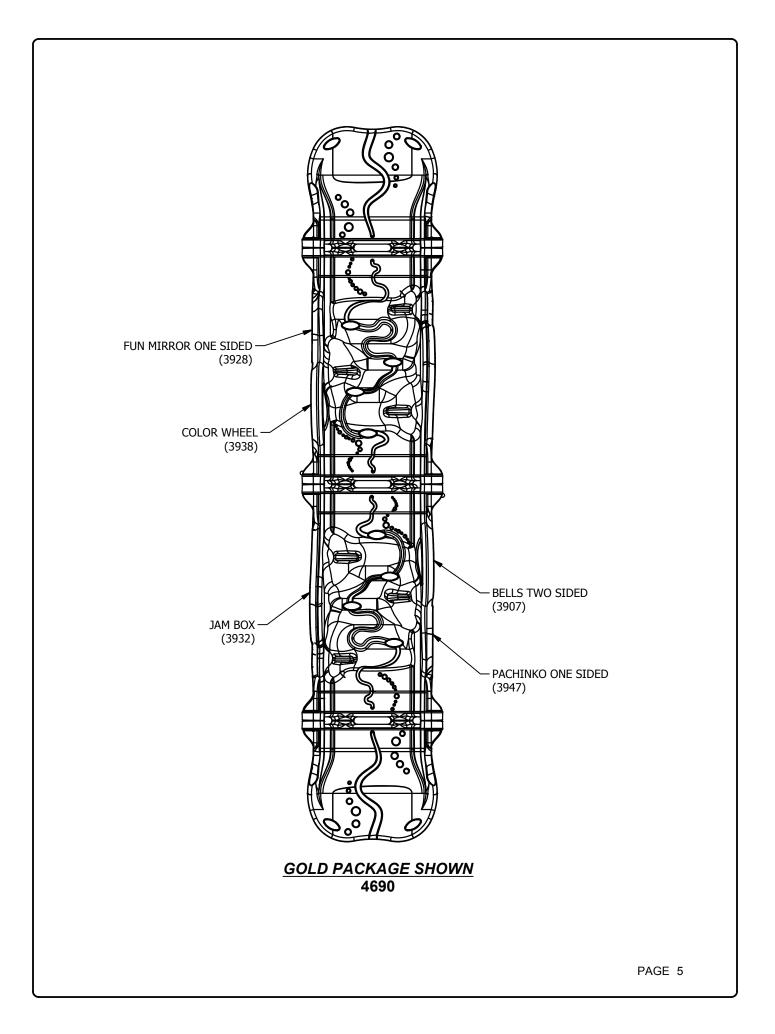
	Parts List							
REF	DESCRIPTION	QTY	PART NUMBER					
1	WAVE END TRANSFER	2	211613					
2	WAVE ARCH	2	211610					
3	FOOTBUCK WELD ASS'Y	2	211716					
4	FOOTBUCK WELD ASS'Y	2	211712					
5	FORMED PIPE	2	212693					
	HARDWARE COMPLETE	1	211718					
	3/8" x 3/4" P.B.H.C.S. w/PATCH	8	812052*					
	3/8" x 5" P.B.H.C.S. w/PATCH	12	812078*					
	3/8" LOCKWASHER	20	817334*					
	3/8" FLAT WASHER (1 1/4" O.D.)	10	817424*					
	3/8" FLAT WASHER	8	817410*					
	3/8" BARREL NUT	12	804804*					
	DOMED PLUG	36	818379*					

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.









SPECIFICATIONS

SENSORY WAVE PIECES: Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

<u>METAL COMPONENTS</u>: The footbuck weld assembly shall be an all weld assembly fabricated from 3 1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and 3/16" steel plate. The footbuck shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68),

<u>HARDWARE</u>: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

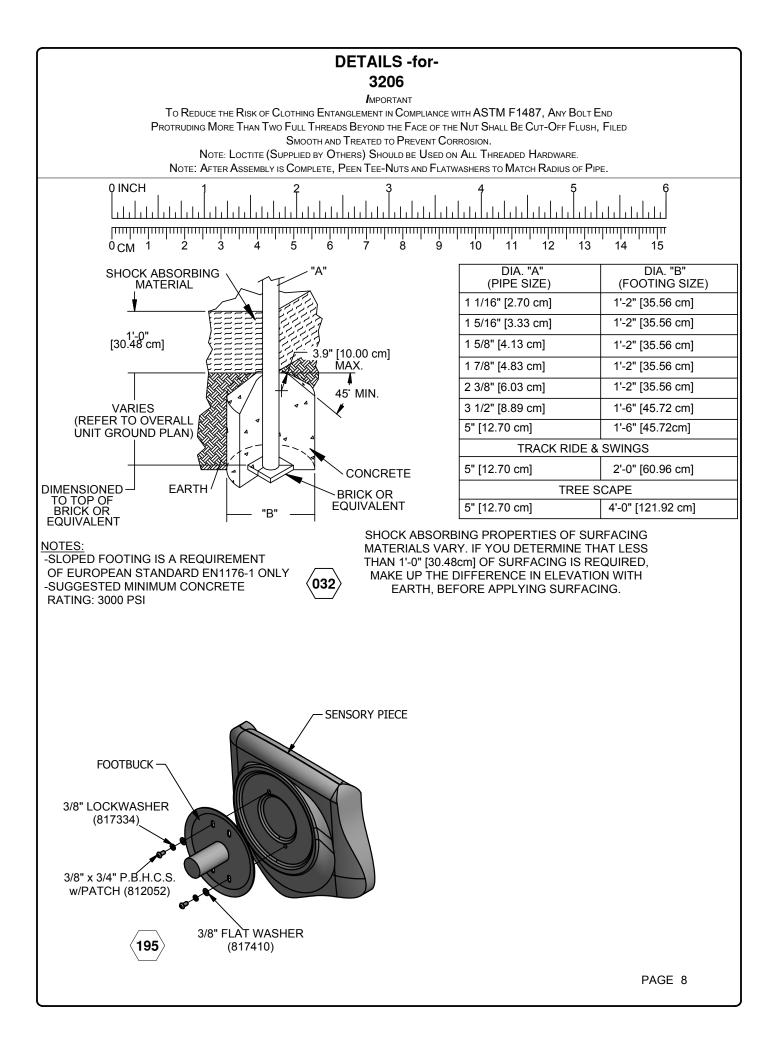
□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

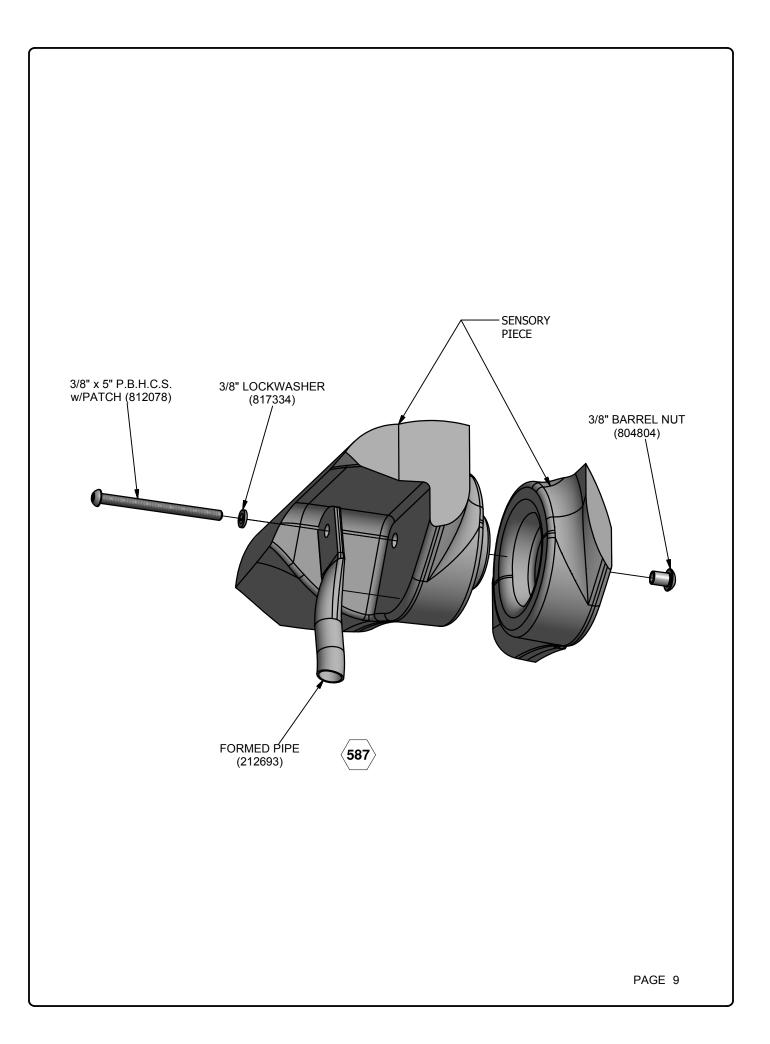
□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

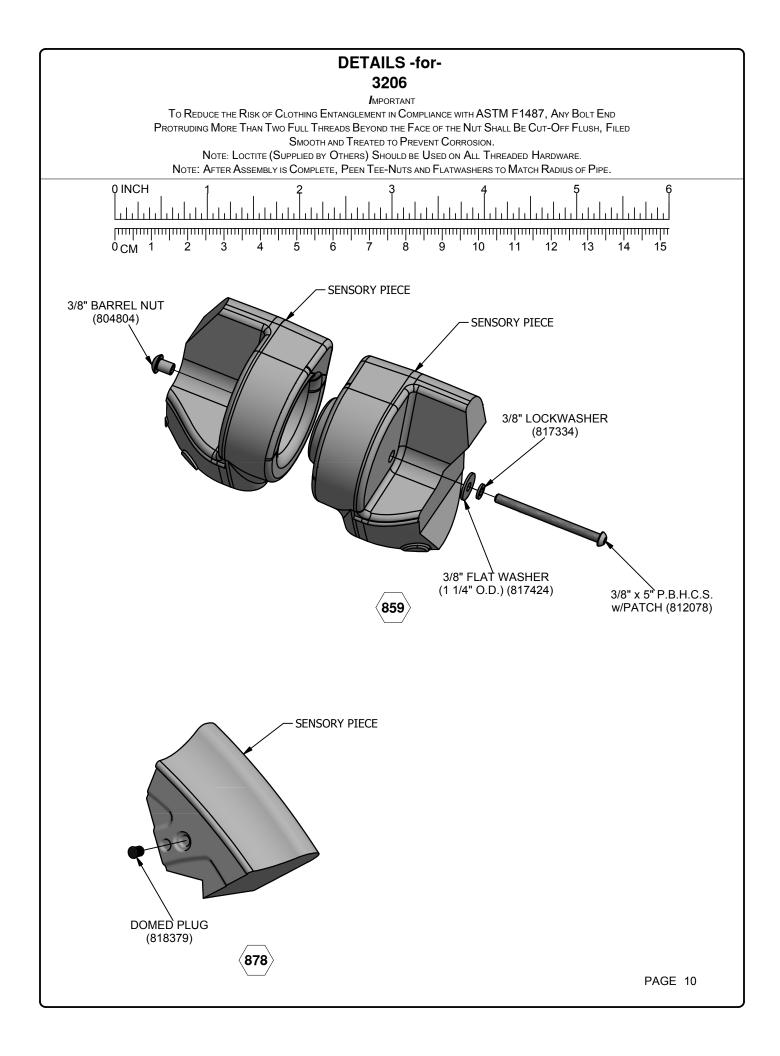
□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

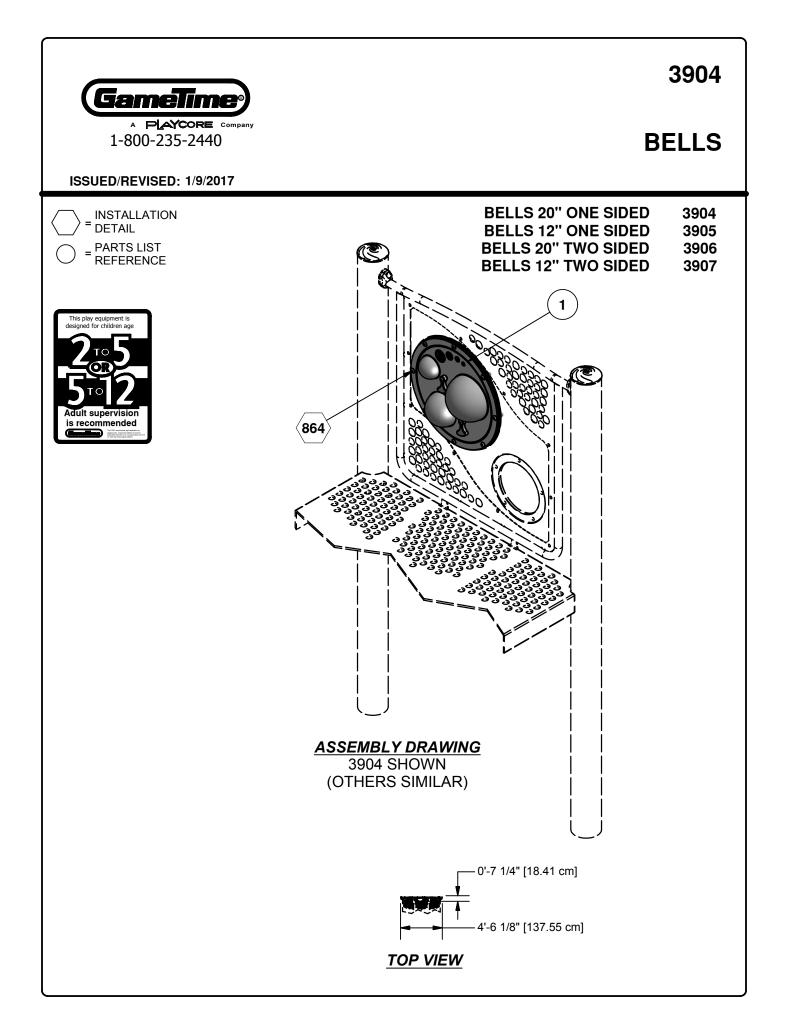
□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

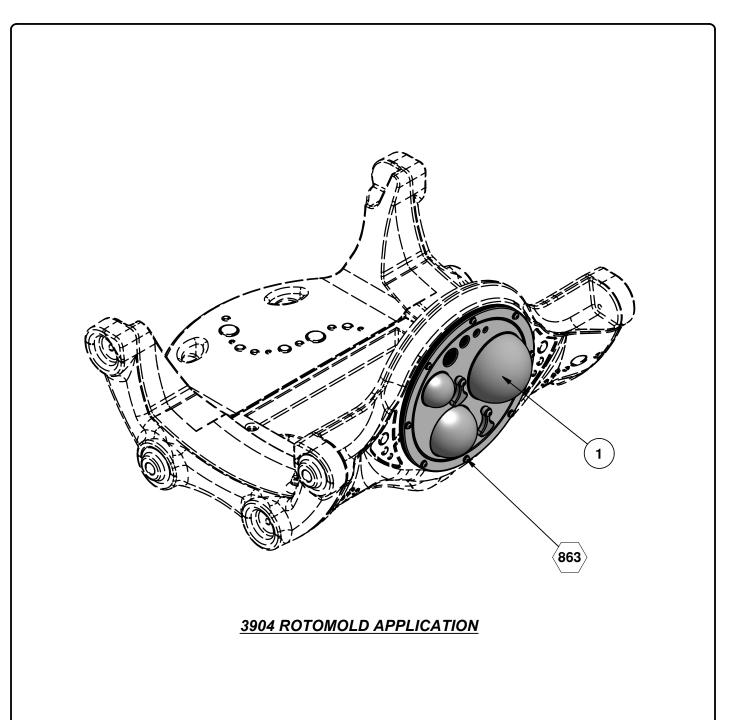
□ Check to be sure all fittings are tight and that the bars and pipes do not move.











	Parts List							
REF.	DESCRIPTION	3904	3905	3906	3907	PART NUMBER		
1	20" BELL ASS'Y ONE SIDED	1	0	0	0	212168		
2	12" BELL ONE SIDED	0	1	0	0	212186		
3	20" BELL TWO SIDED	0	0	1	0	212183		
4	12" BELL TWO SIDED	0	0	0	1	212188		
	HARDWARE COMPLETE	1	0	1	0	212190		
	HARDWARE COMPLETE	0	1	0	1	212191		
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	8	5	8	5	812051*		
	3/8" BARREL NUT	8	5	8	5	804804*		
	3/8" FLAT WASHER	8	5	8	5	817410*		
	3/8" LOCKWASHER	8	5	8	5	817334*		

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

STEP 1: Attach Bells 3904, 3905, 3906 and 3907 per Detail 864. When used on rotomold application, attach Bells 3904 and 3905 per Detail 863.

SPECIFICATIONS

BELL: Bells shall be all weld assemblies fabricated from formed 11 Ga. Steel, 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing, and purchases machined stainless steel insert. The Bell weld assemblies shall be coated in TGIC polyester powder coating as specified herein.

BELL PANEL: The bell panel shall be fabricated from 3/4" high density polyethylene.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68),



AND SAFETY WARNINGS



□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

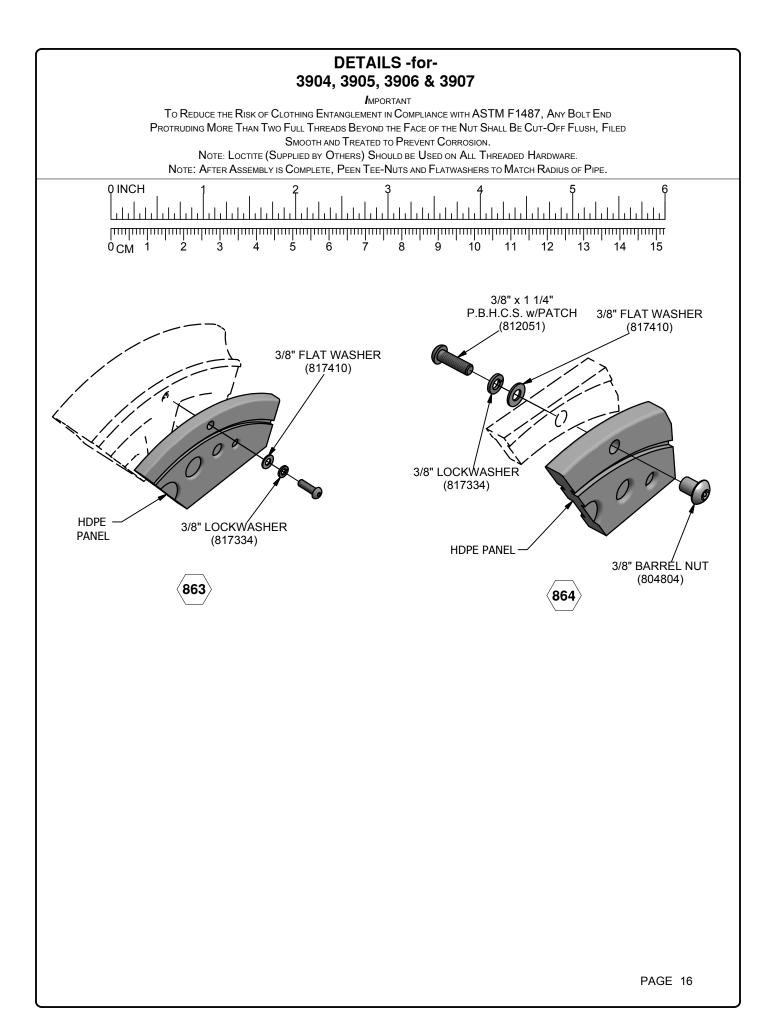
□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

Check to be sure all fittings are tight and that the bars and pipes do not move.



3924

3924

SENSORY **MIRRORS**

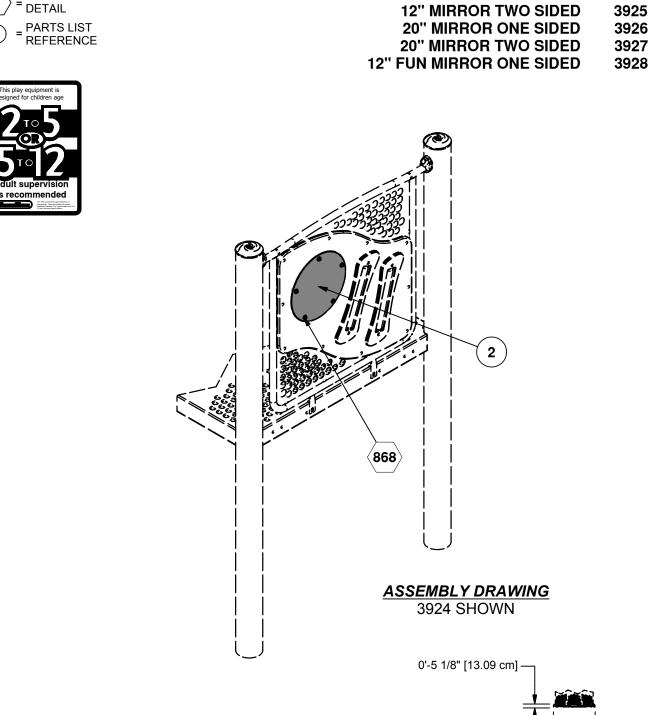
12" MIRROR ONE SIDED

4'-6 1/8" [137.55 cm]

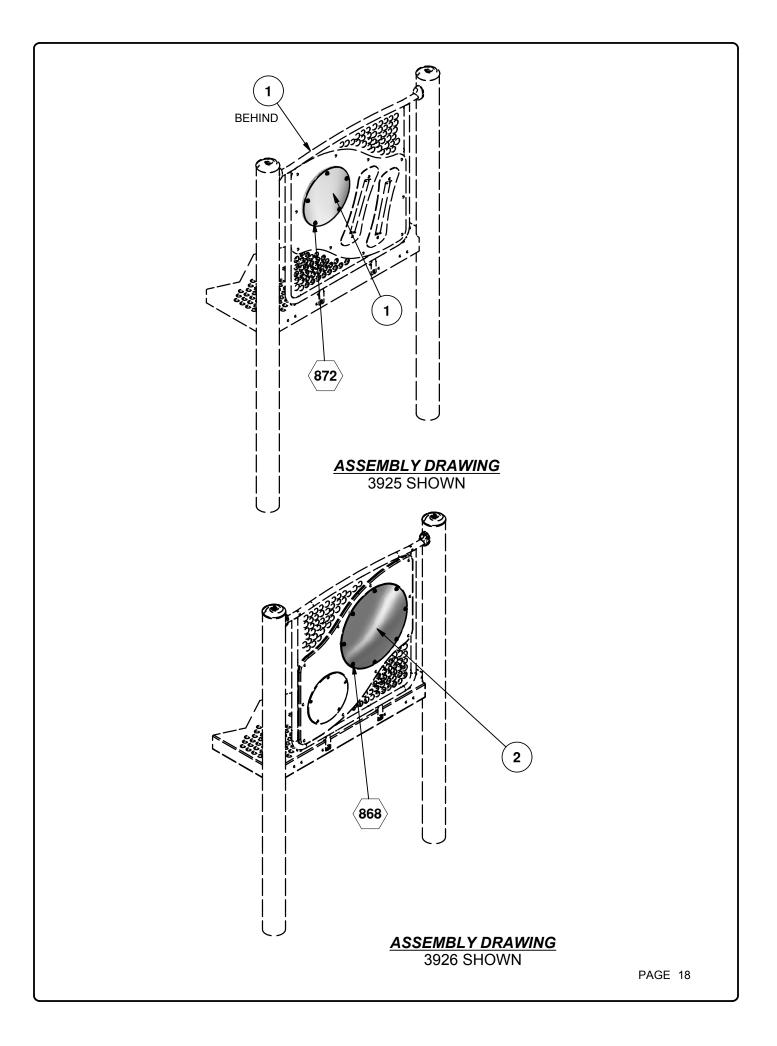
TOP VIEW

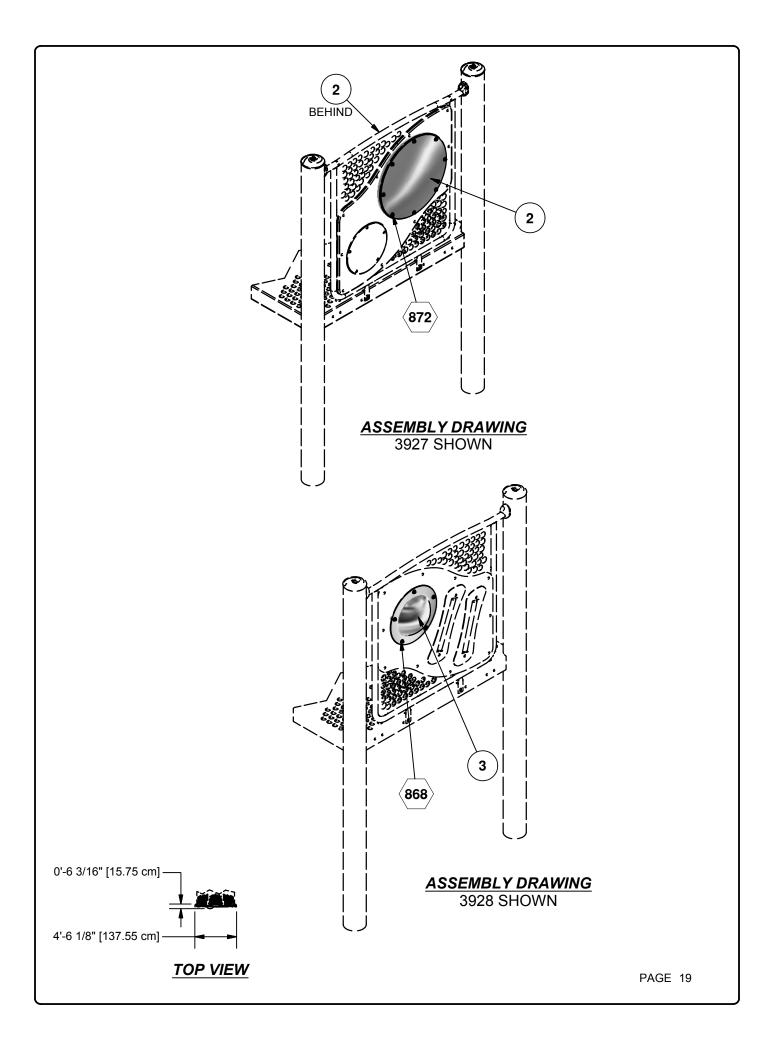


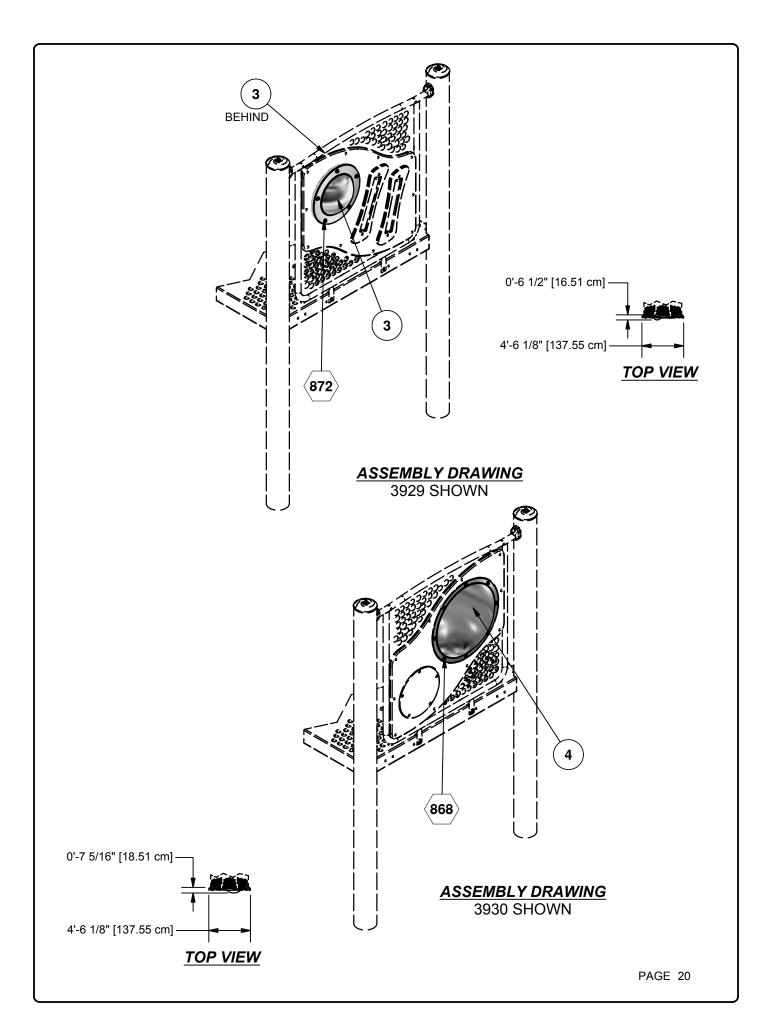
GameTime

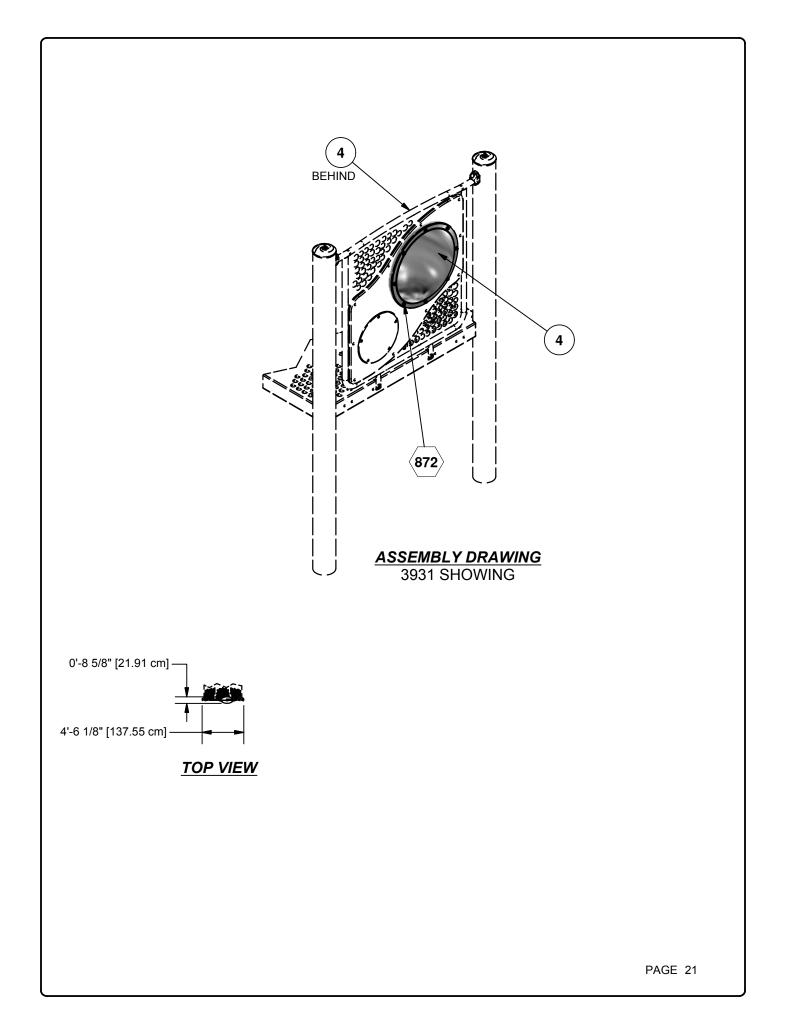












	Parts List									
REF.	DESCRIPTION	3924	3925	3926	3927	3928	3929	3930	3931	PART NUMBER
1	SMALL MIRROR	1	2	0	0	0	0	0	0	212279
2	LARGE MIRROR	0	0	1	2	0	0	0	0	212278
3	SMALL FUN MIRROR	0	0	0	0	1	2	0	0	212280
4	LARGE FUN MIRROR	0	0	0	0	0	0	1	2	212281
	HARDWARE COMPLETE	1	1	0	0	1	1	0	0	212226
	HARDWARE COMPLETE	0	0	1	1	0	0	1	1	212225
	3/8" x 3/4" P.B.H.C.S. w/PATCH	5	5	8	8	5	5	8	8	812052*
	3/8" BARREL NUT	5	5	8	8	5	5	8	8	804804*
	3/8" FLAT WASHER	5	5	8	8	5	5	8	8	817410*
	3/8" LOCKWASHER	5	5	8	8	5	5	8	8	817334*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

STEP 1. Mirror Panels shall be attached per Details 868 and 872.

SPECIFICATIONS

MIRROR PANEL: The mirror panels shall be fabricated from 3/16" thick acrylic with UV inhibitive reflective coating.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS

∕ST	'OP $ angle$
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□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

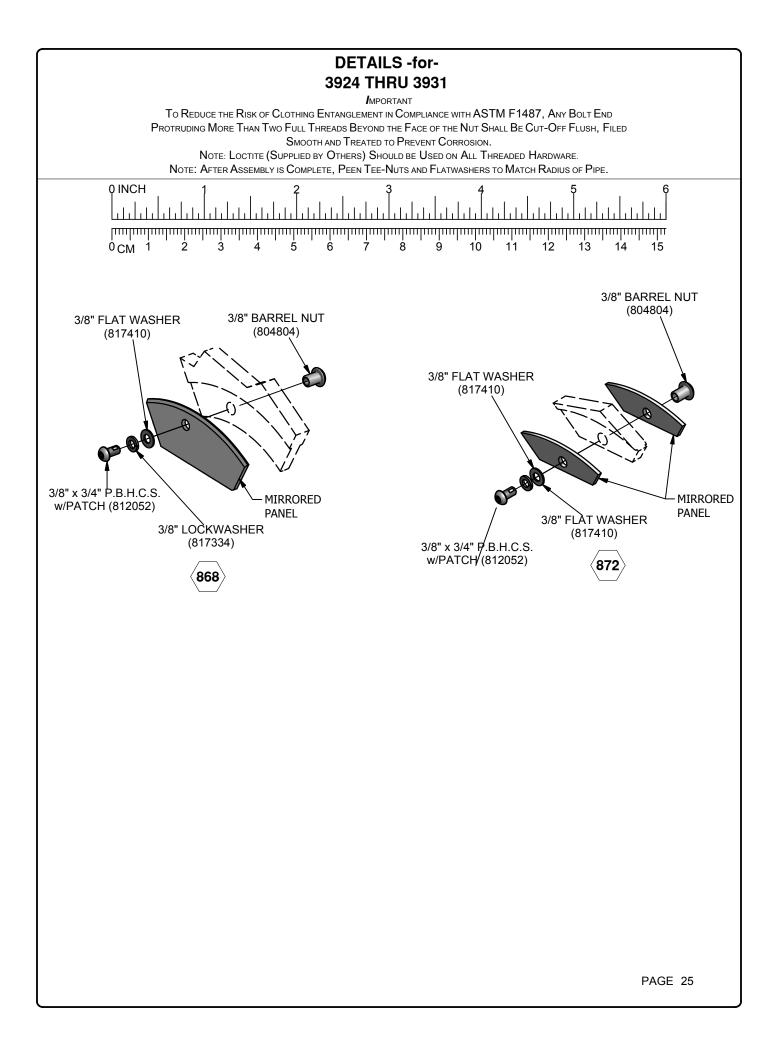
□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

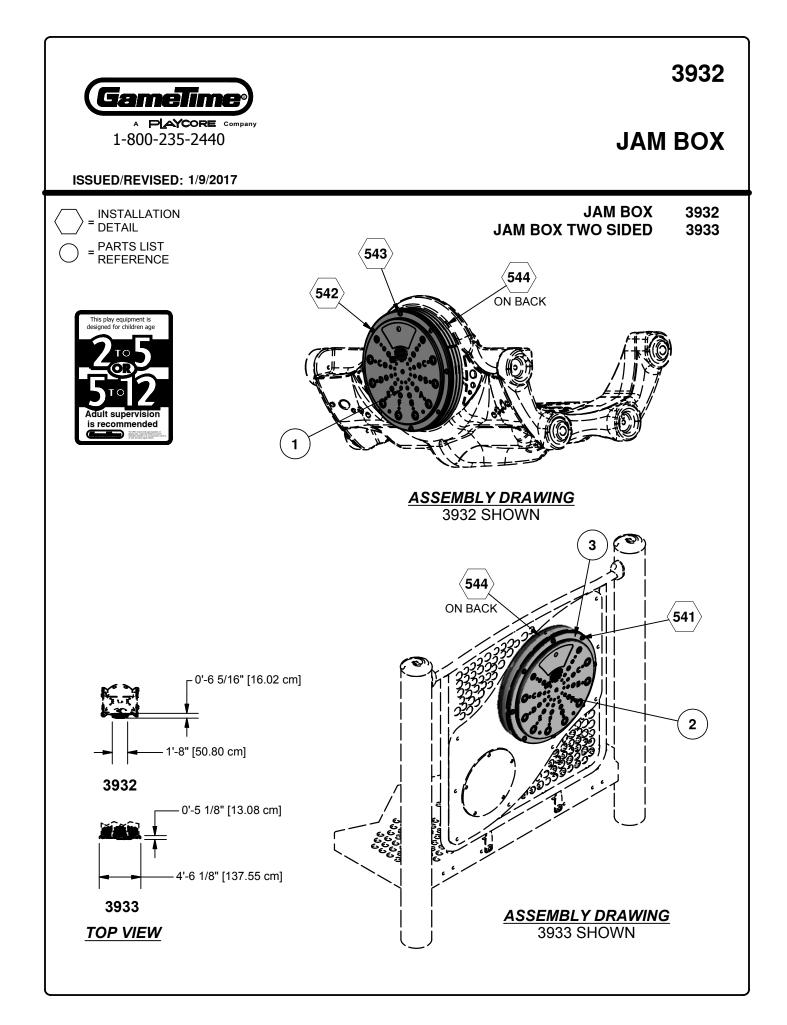
□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

□ Check to be sure all fittings are tight and that the bars and pipes do not move.







AND SAFETY WARNINGS



□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

□ Check to be sure all fittings are tight and that the bars and pipes do not move.

	Parts List							
REF	DESCRIPTION	3932	3933	PART NUMBER				
1	JAM BOX ONE SIDED	1	0	212428				
2	JAM BOX TWO SIDED	0	1	212417				
3	SPACER	6	0	212416				
	HARDWARE COMPLETE	1	0	212436				
	HARDWARE COMPLETE	0	1	212437				
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	0	4	812059*				
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	0	4	817410*				
	3/8" x 3" P.B.H.C.S. w/PATCH	4	0	812059*				
	3/8" x 3 3/4" P.B.H.C.S. w/PATCH	4	0	812076*				
	3/8" LOCKWASHER	8	8	817334*				
	3/8" FLAT WASHER	8	8	817410*				
	3/8" T-NUT	4	0	804556*				
	3/8" BARREL NUT	0	8	804804*				

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

STEP 1. Batteries supplied by others should be installed in water tight housing as per detail 544.

STEP 2. Jam Box 3933 panel shall be attached to mounting surface as per detail 541.

STEP 3. Jam Box 3932 panel shall be attached to HDPE Spacer rings per detail 542.

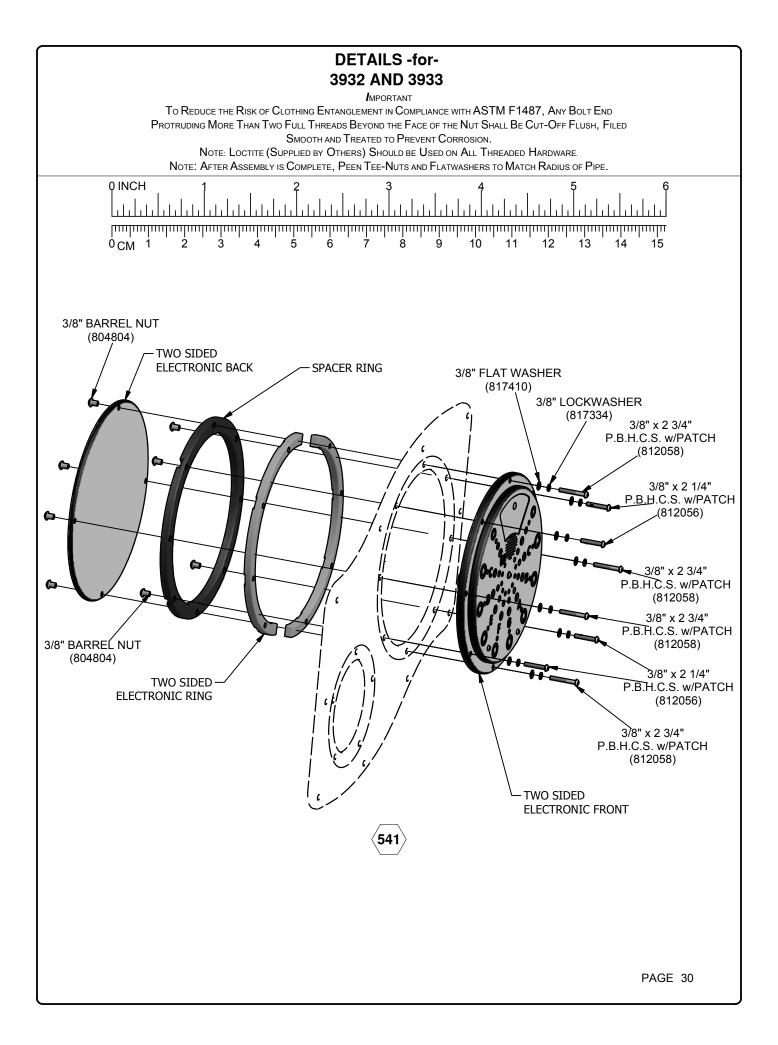
STEP 4. Jam Box 3932 should then be attached to mounting surface as per detail 543.

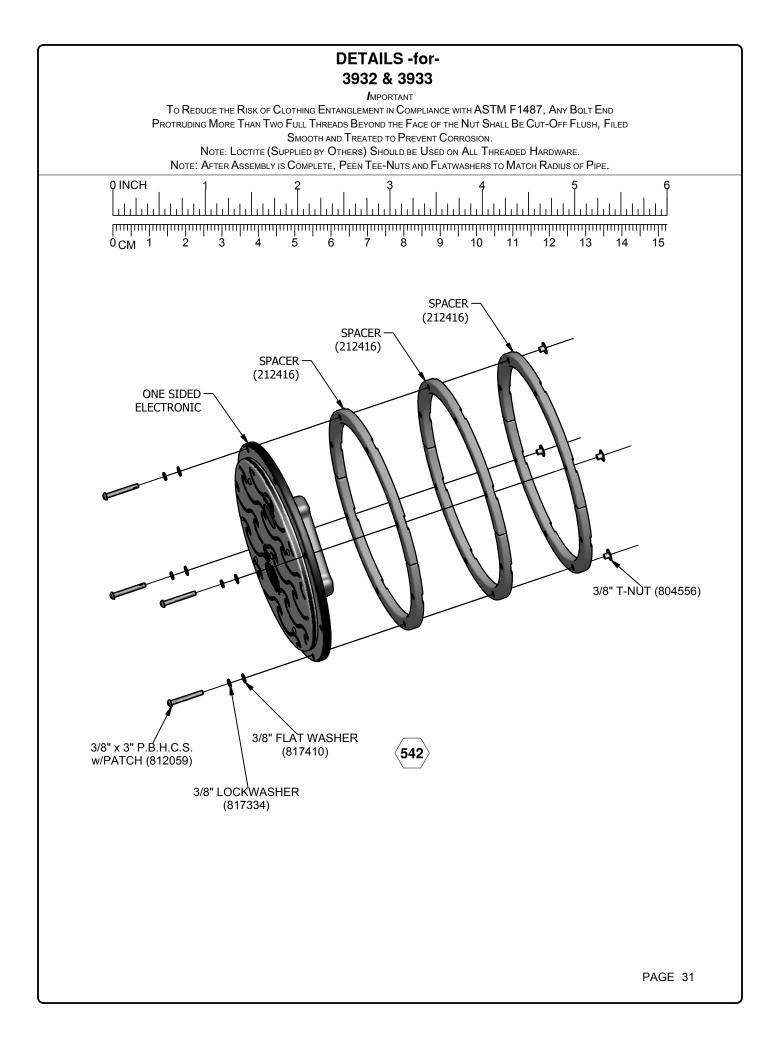
SPECIFICATIONS

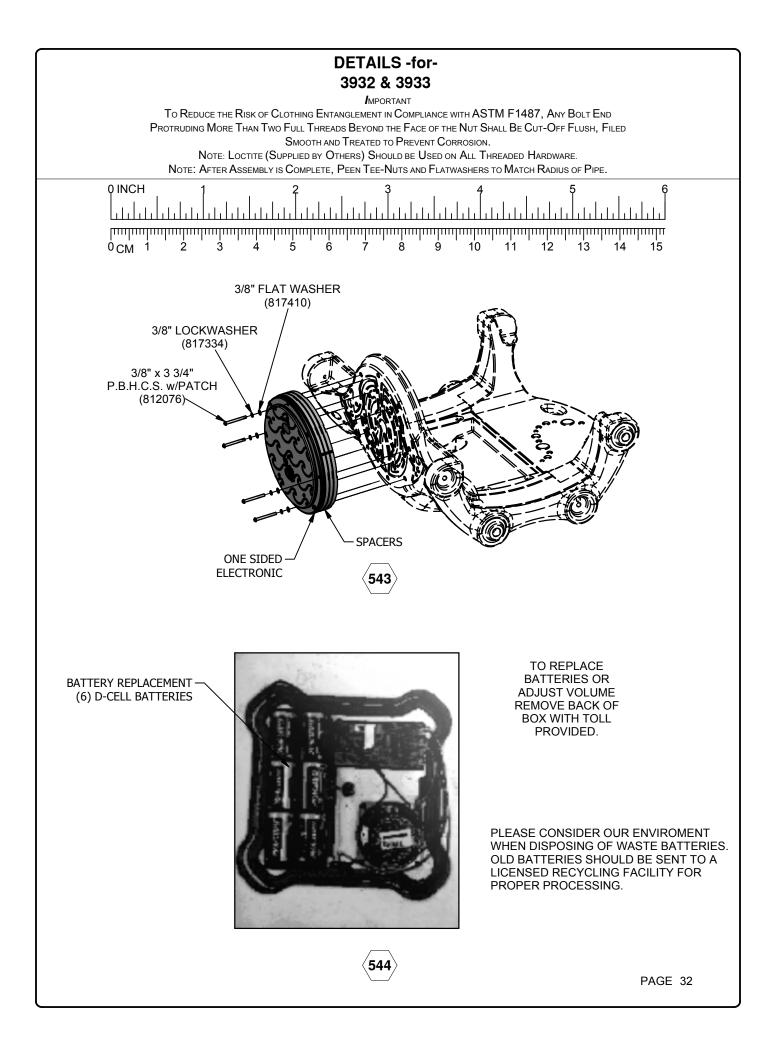
JAM BOX PANEL: The Jam Box panels shall be fabricated from 3/4" high density polyethylene with electronic components contained within water tight low density polyethylene housing.

HDPE SPACER RINGS: The HDPE spacer rings shall be fabricated from 3/4" high density polyethylene

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.







3938

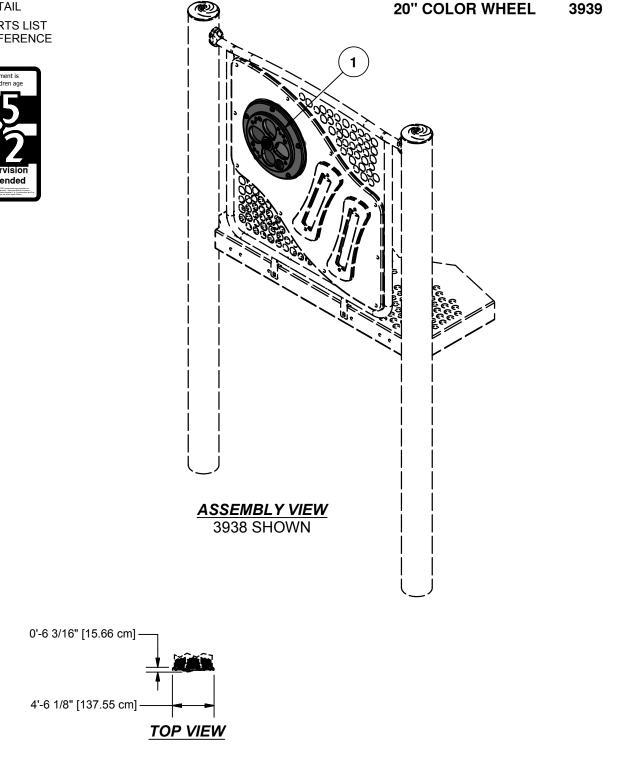
3938

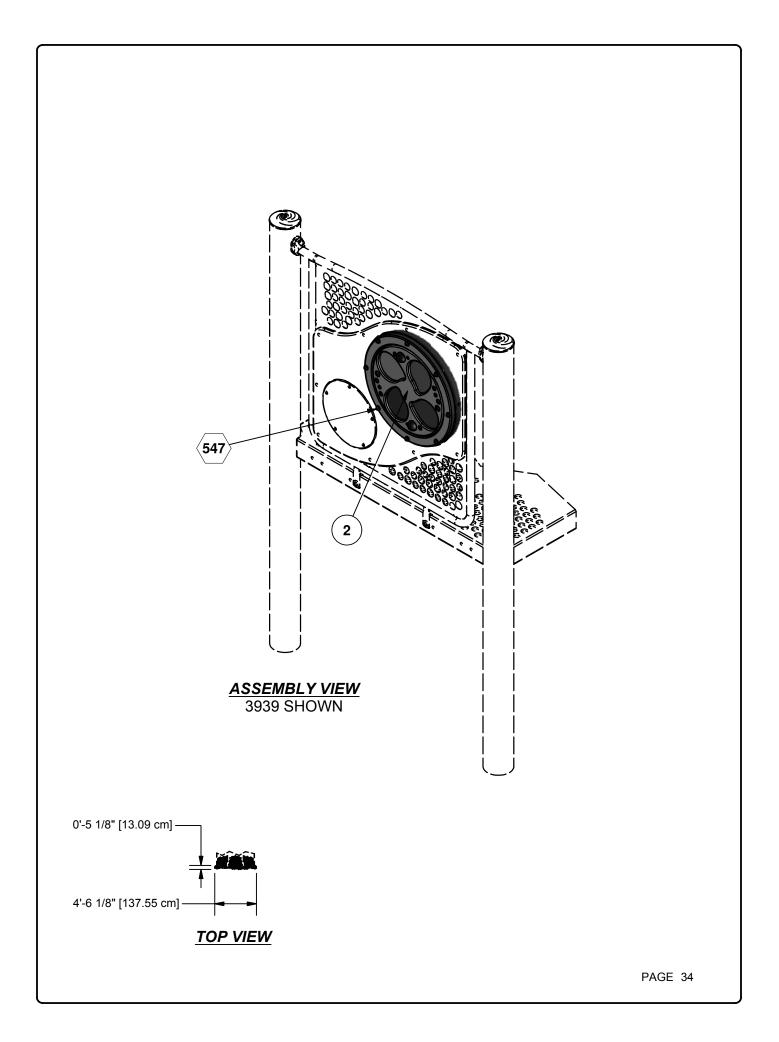
COLOR WHEEL

12" COLOR WHEEL









	Parts List					
REF.	DESCRIPTION	3938	3939	PART NUMBER		
1	12" COLOR WHEEL	1	0	212463		
2	20" COLOR WHEEL	0	1	212464		
	HARDWARE COMPLETE	1	0	212465		
	HARDWARE COMPLETE	0	1	212466		
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	0	812051*		
	3/8" x 2 1/2"" P.B.H.C.S. w/PATCH	0	8	812057*		
	3/8" BARREL NUT	5	8	804804*		
	3/8" FLAT WASHER	5	8	817410*		
	3/8" LOCKWASHER	5	8	817334*		

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

STEP 1: Attach Color Wheel 3938 per Detail 546.

STEP 2: Attach Color Wheel 3939 per Detail 547

SPECIFICATIONS

COLOR WHEEL: The Color Wheel shall be fabricated from 1/2" high density polyethylene and 3/16" thick colored UV inhibitive acrylic.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.





□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

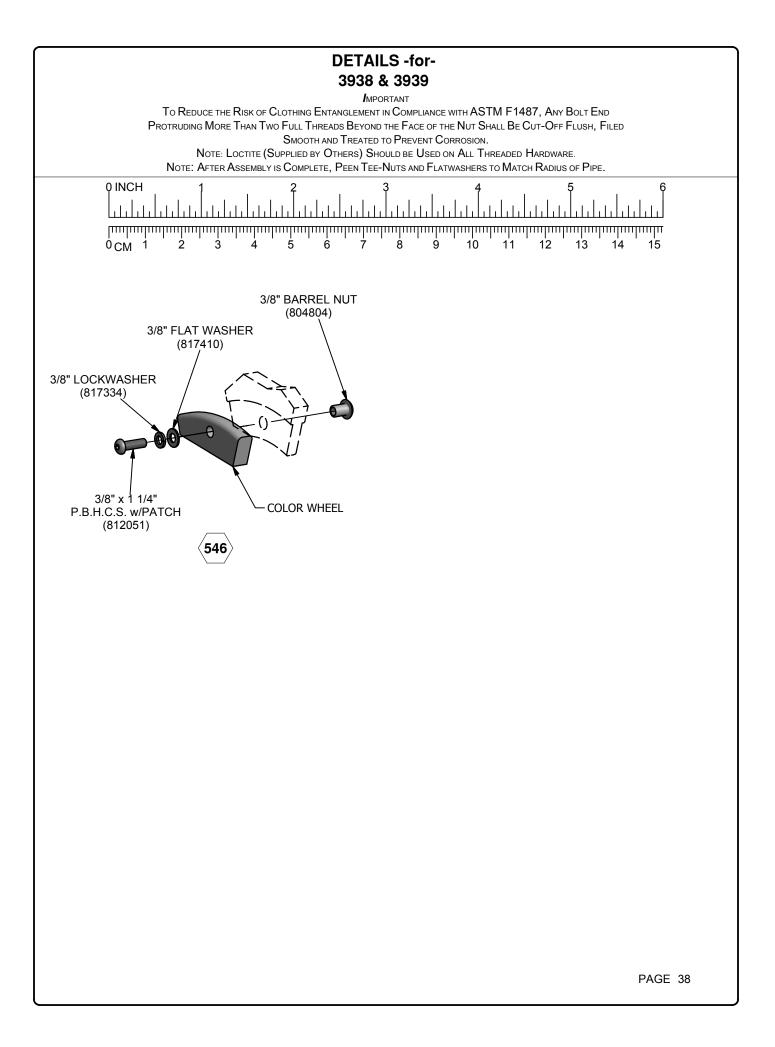
□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

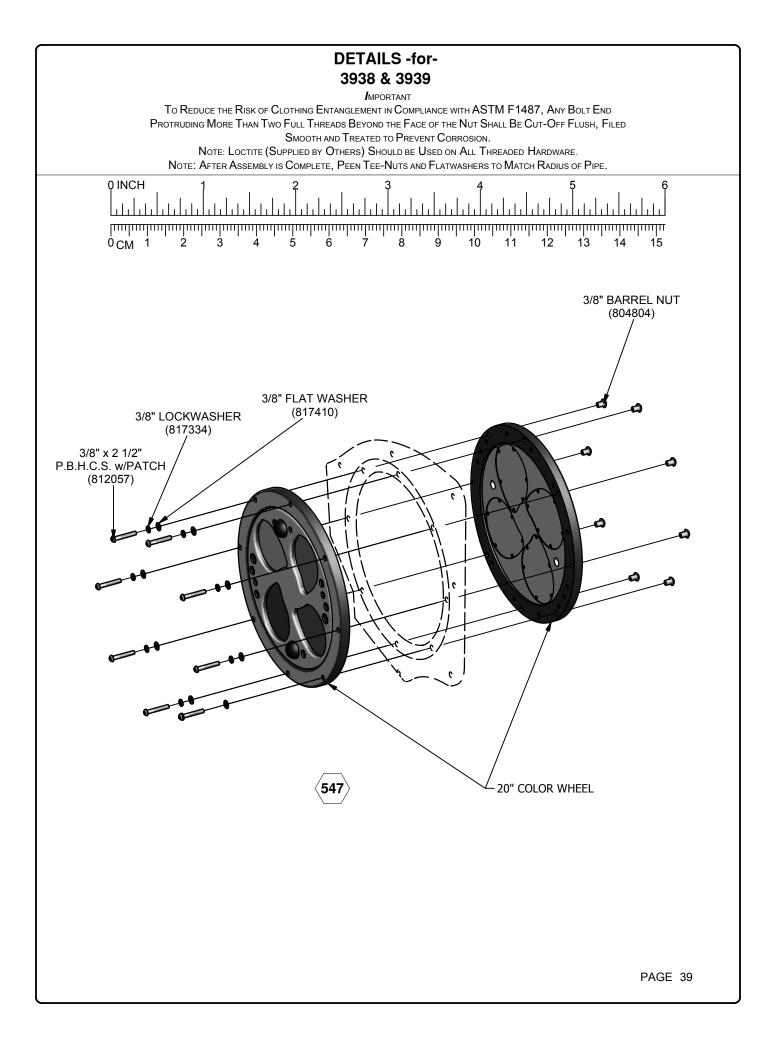
□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

□ Check to be sure all fittings are tight and that the bars and pipes do not move.

□ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.



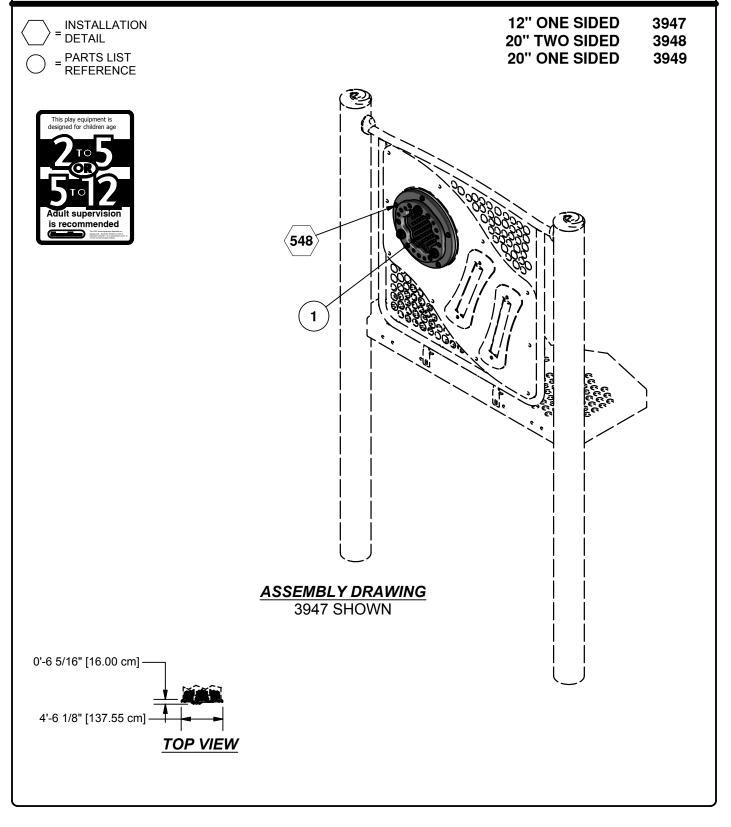


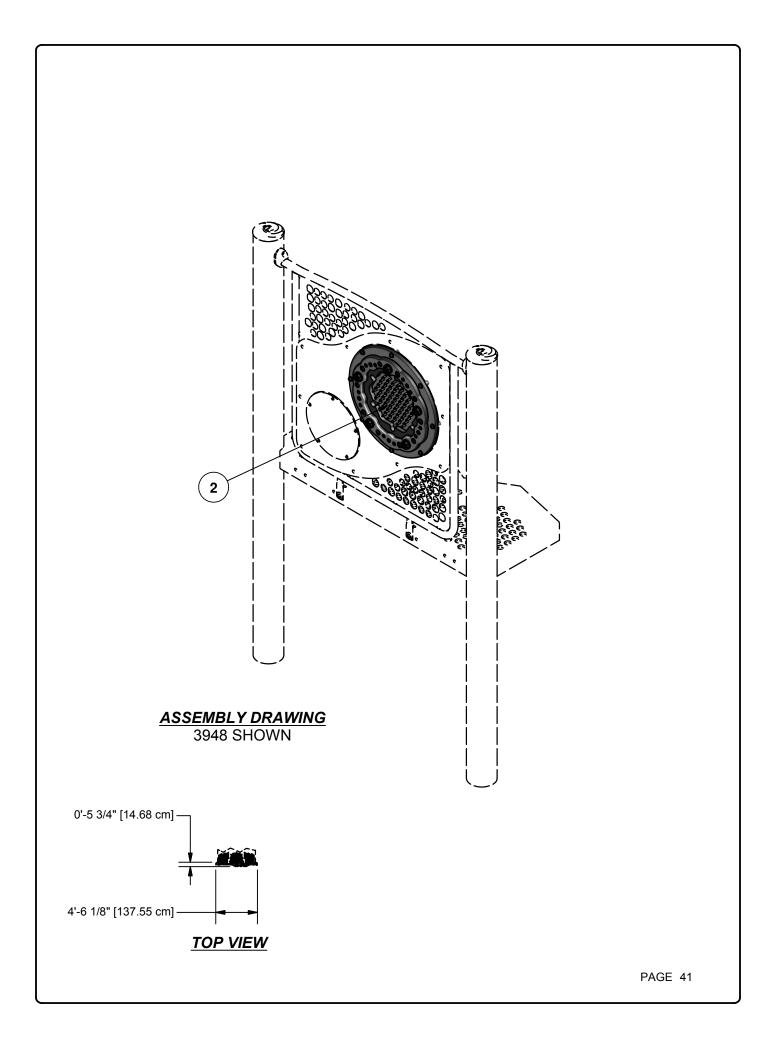
3947

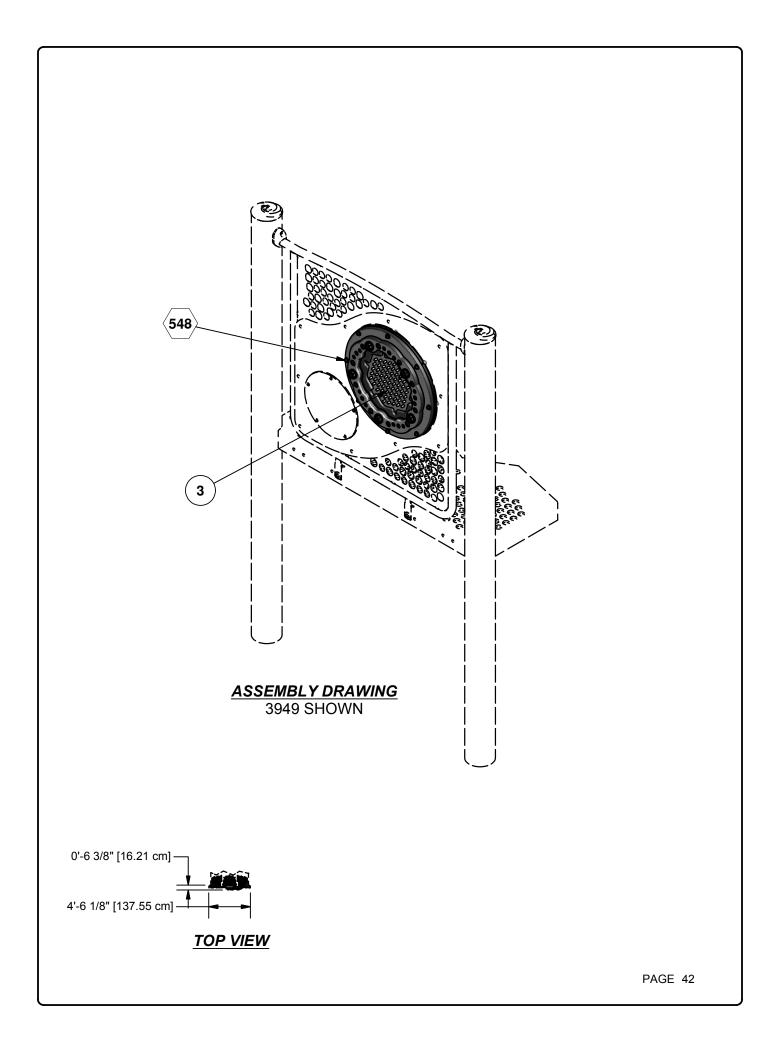




ISSUED/REVISED: 1/9/2017







Parts List					
REF.	DESCRIPTION	3947	3948	3949	PART NUMBER
1	12" PACHINKO PANEL ONE SIDED	1	0	0	212476
2	20" PACHINKO PANEL TWO SIDED	0	1	0	212477
3	20" PACHINKO PANEL ONE SIDED	0	0	1	212478
	HARDWARE COMPLETE	1	0	0	212479
	HARDWARE COMPLETE	0	1	0	212475
	HARDWARE COMPLETE	0	0	1	212472
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	0	8	0	812051*
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	5	0	8	812054*
	3/8" BARREL NUT	5	8	8	804804*
	3/8" FLAT WASHER	5	8	8	817410*
	3/8" LOCKWASHER	5	8	8	817334*

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

STEP 1: Attach Pachinko 3947 & 3949 per Detail 548.

STEP 2: Attach Pachinko 3948 per Detail 546.

SPECIFICATIONS

PACHINKO: The Pachinko shall be fabricated from 1/2" high density polyethylene, nylon spacers, and 3/16" thick UV inhibitive acrylic with 10mm nylon ball.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.





□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

U Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

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□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

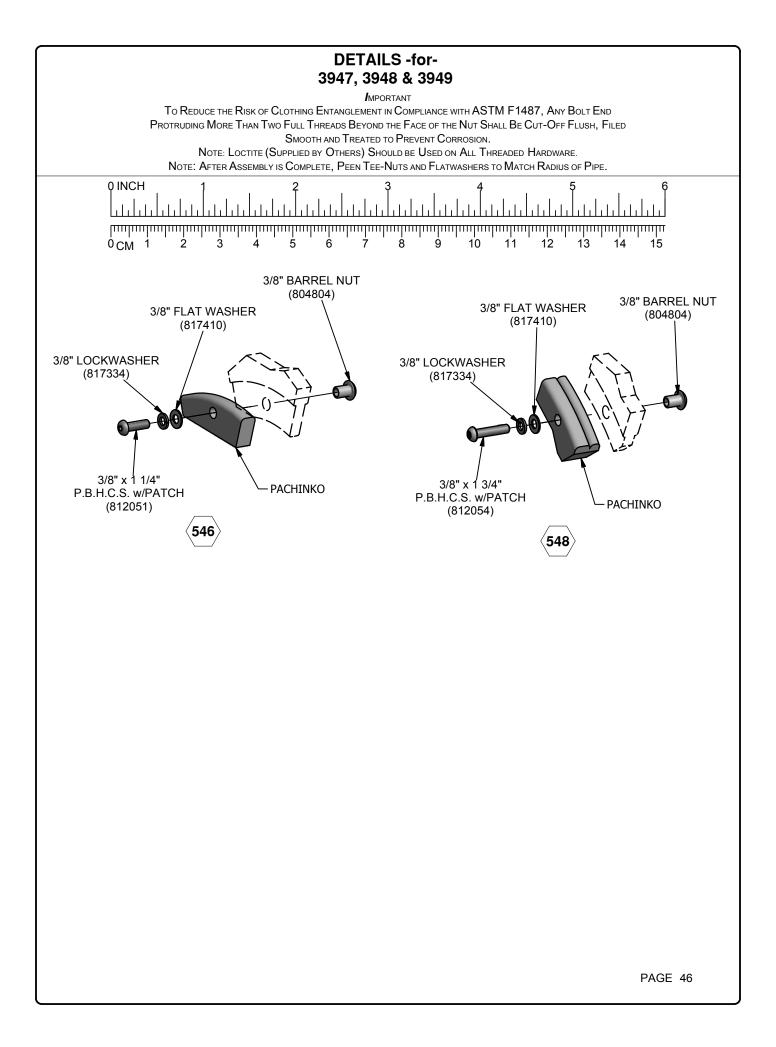
□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

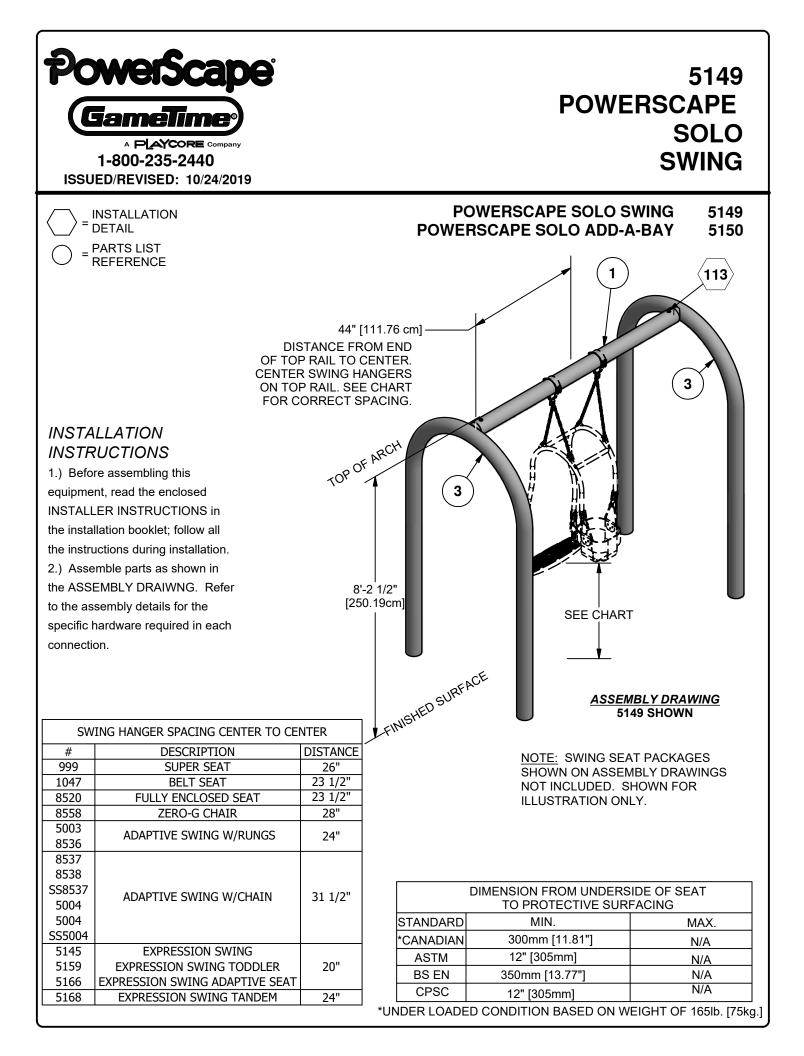
□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

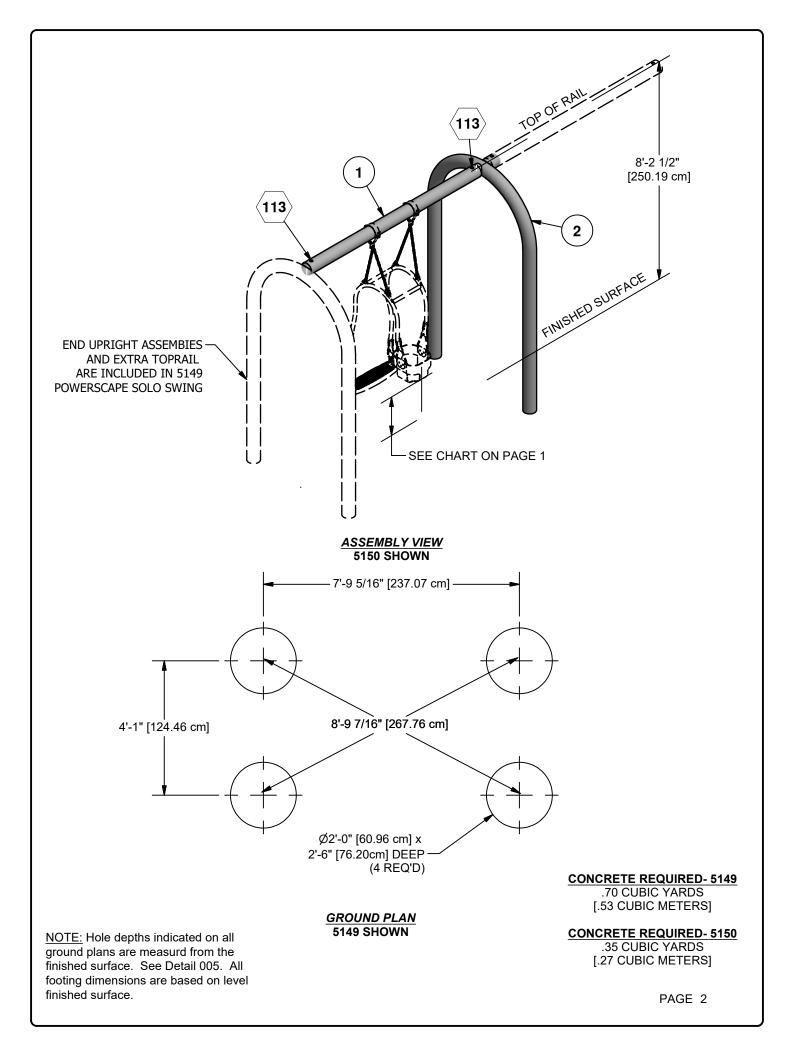
□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

□ Check to be sure all fittings are tight and that the bars and pipes do not move.

A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.





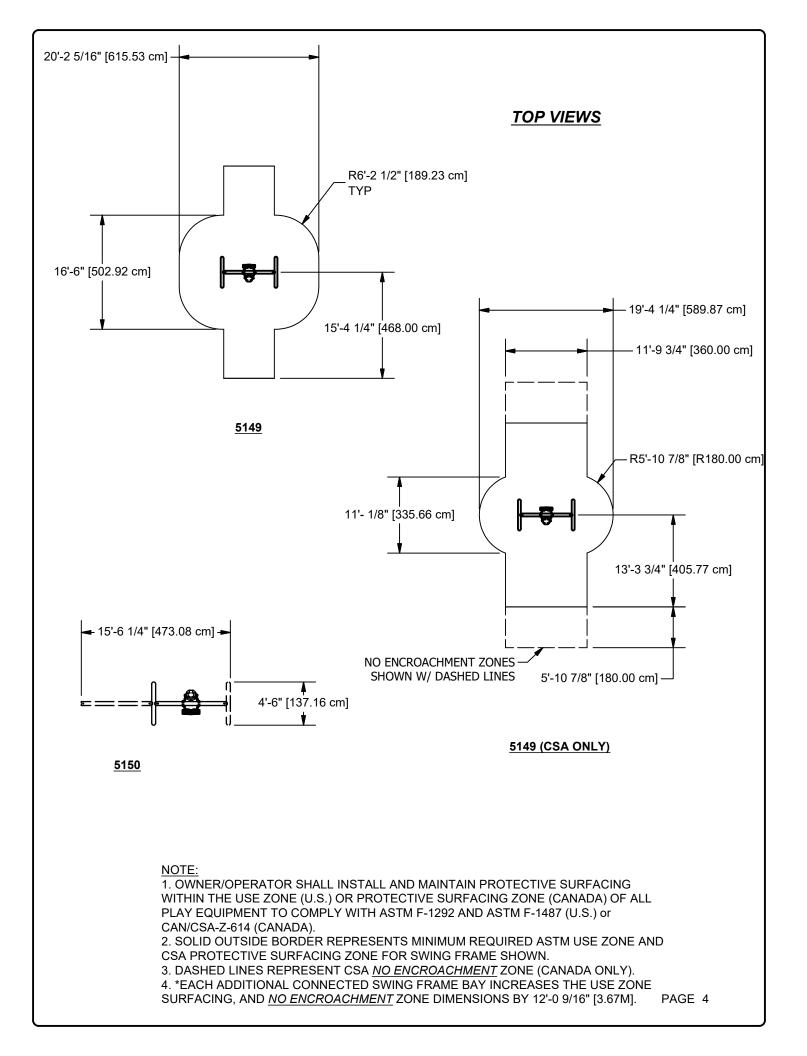


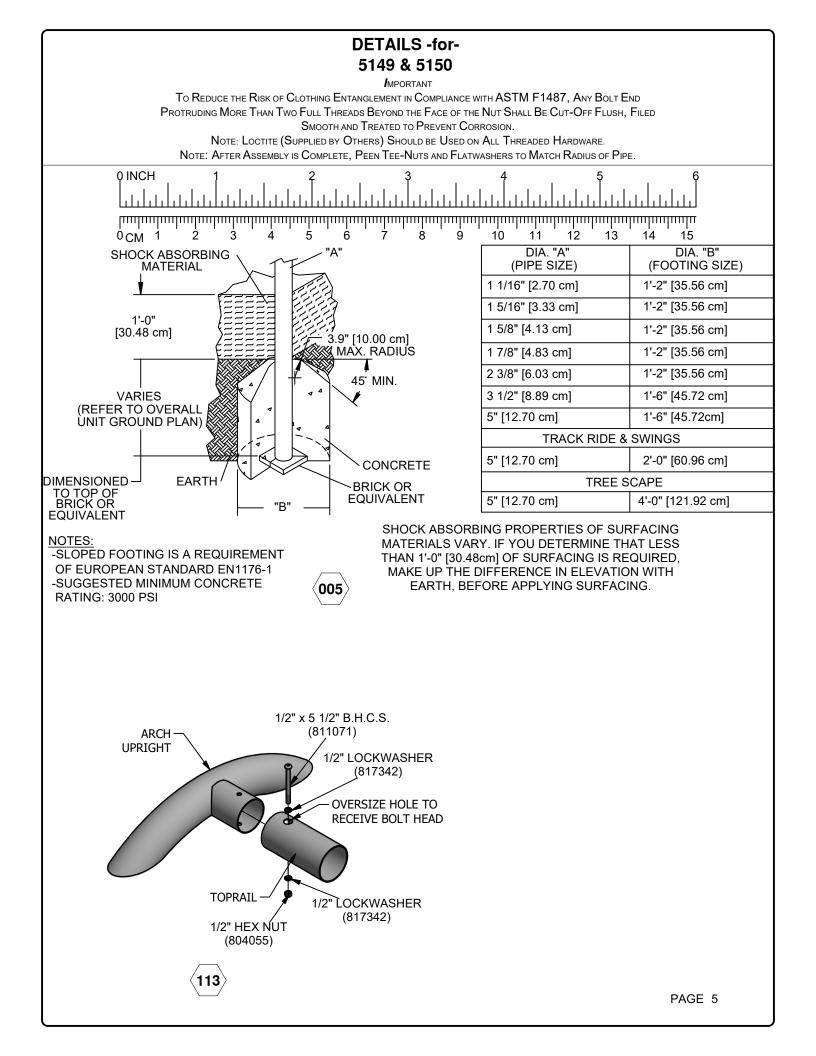
Parts List				
REF.	DESCRIPTION	5149	5150	PART NUMBER
1	TOP RAIL	1	1	209795
2	MULTI-BAY ARCH UPRIGHT ASS'Y	0	1	147009
3	ARCH END UPRIGHT ASS'Y	2	0	147006
	HARDWARE COMPLETE	1	1	147013
	1/2" x 5 1/2" B.H.C.S.	2	2	811071*
	1/2" LOCKWASHER	4	4	817342*
	1/2" HEX NUT	2	2	804055*
	MANUFACTURER I.D. LABEL	1	1	159151*
Unless Otherwise Specified, All Units of Measure are Each				

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

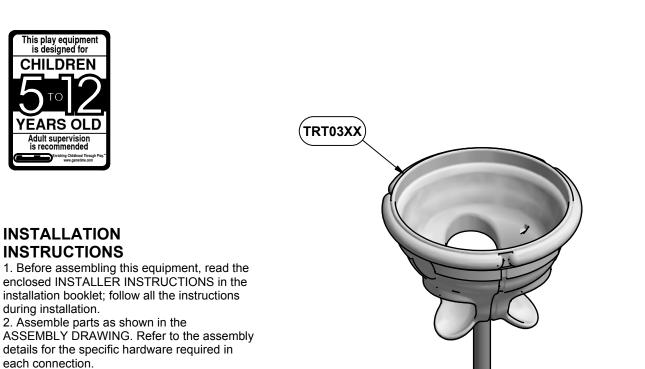






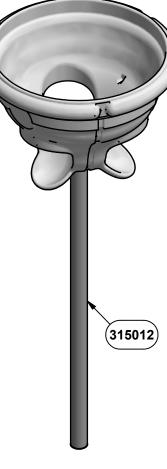
1-800-235-2440

ISSUED/REVISED: 7/27/2020



3. LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

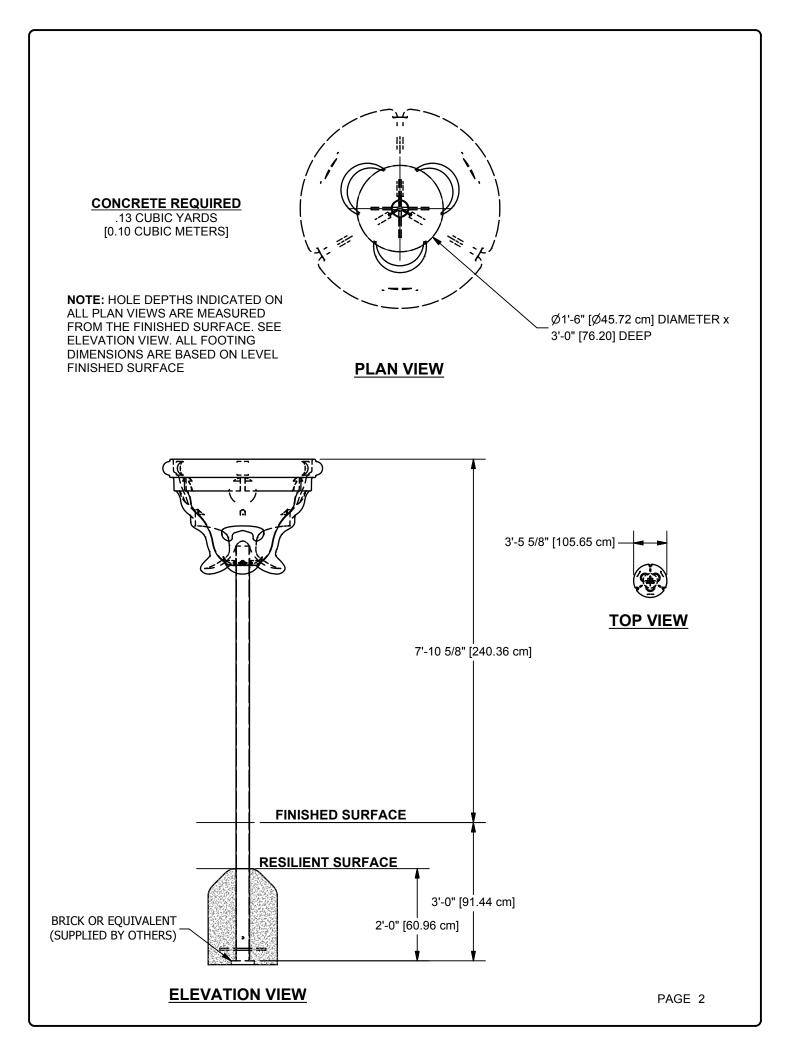
4. DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

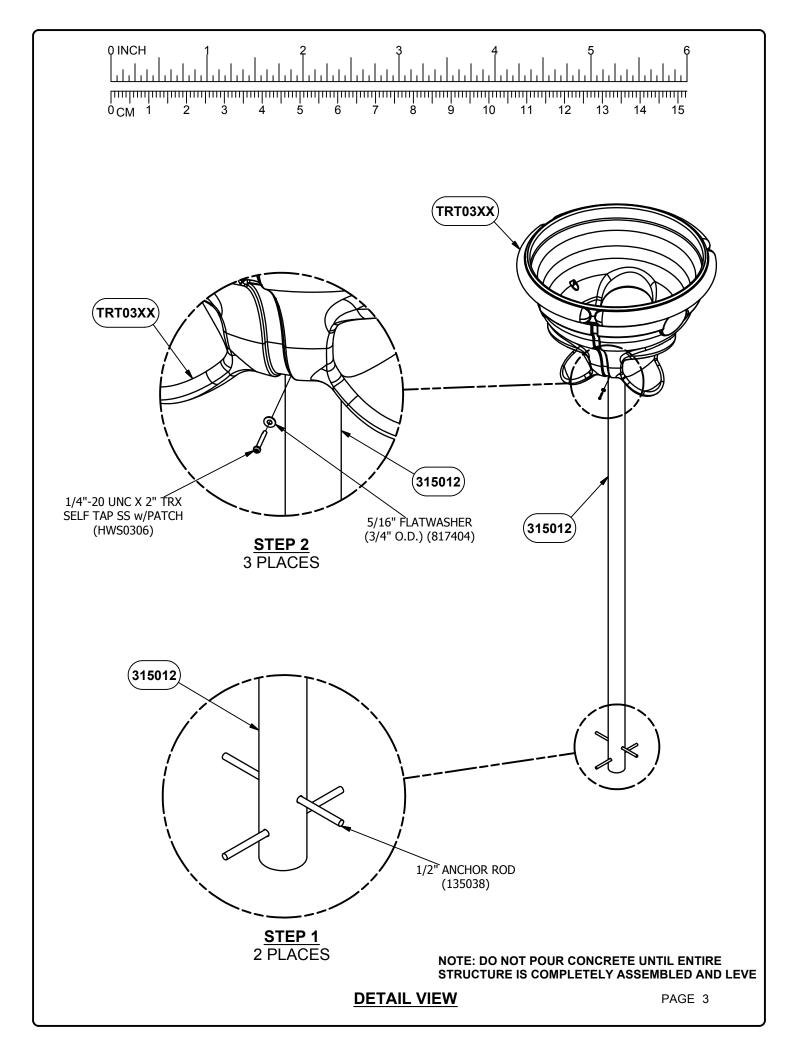


ASSEMBLY VIEW

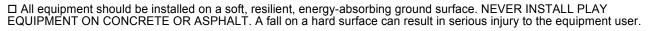
6289

TOSS N SCORE









STOF

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

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□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

□ Check to be sure all fittings are tight and that the bars and pipes do not move.

□ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

NOTE: Place a brick or equivalent at the bottom of ground hole (where shown) to provide a solid foundation. Allow for this in hole depth.

Dig hole according to Plan View.

NOTE: Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.

STEP 1: Place anchor rods in holes provided in Post as shown on page 3.

STEP 2: Attach Triple Toss Post into bottom of Triple Toss. Fasten with hardware as shown on page 3

STEP 3: Level and plumb entire unit. Tighten all nuts, bolts, etc. Pour ground hole with concrete to within 1'-0" [30.48cm] of finished grade. See Elevation View. Allow concrete to harden 48 hours before using. Sway bracing may be required during this step.

NOTE: Loctite should be used on all threaded hardware.

Parts List			
DESCRIPTION	QTY	PART NUMBER	
TRIPLE TOSS	1	TRT03XX	
TRIPLE TOSS POST	1	315012	
HARDWARE COMPLETE	1	315013	
1/2" ANCHOR ROD	2	135038*	
1/4"-20 UNC X 2" TRX SELF TAP SS w/PATCH	3	HWS0306*	
5/16" FLATWASHER (3/4" O.D.)	3	817404*	

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware. To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more that two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.

- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.

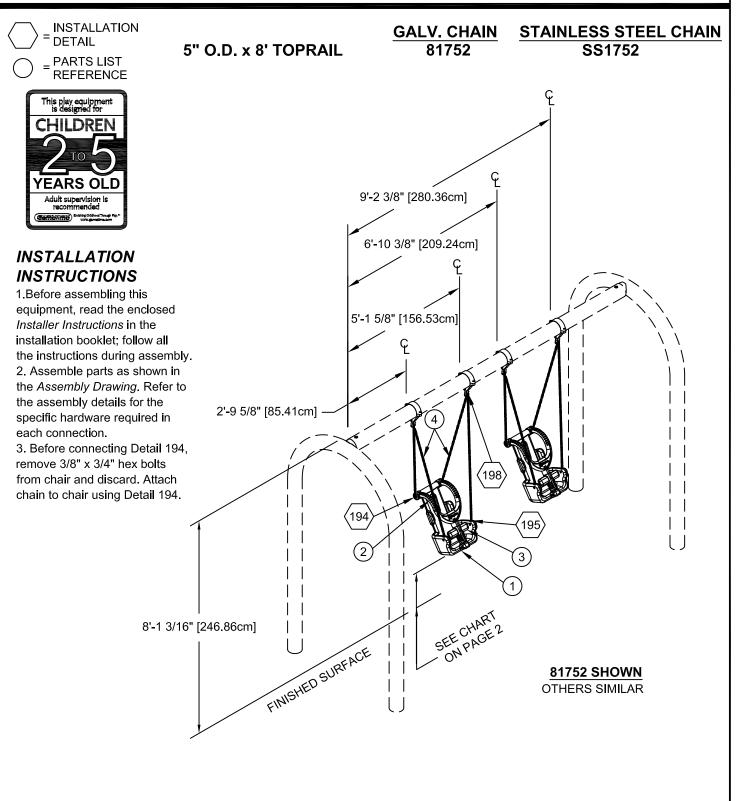
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



1-800-235-2440

ISSUED/REVISED: 8/1/18





DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING					
STANDARD MIN. MAX.					
*CANADIAN	300mm [11.81"]	N/A			
ASTM	12" [305mm]	N/A			
BS EN	350 mm [13.77"]	N/A			
CPSC	12" [305mm]	N/A			

* UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

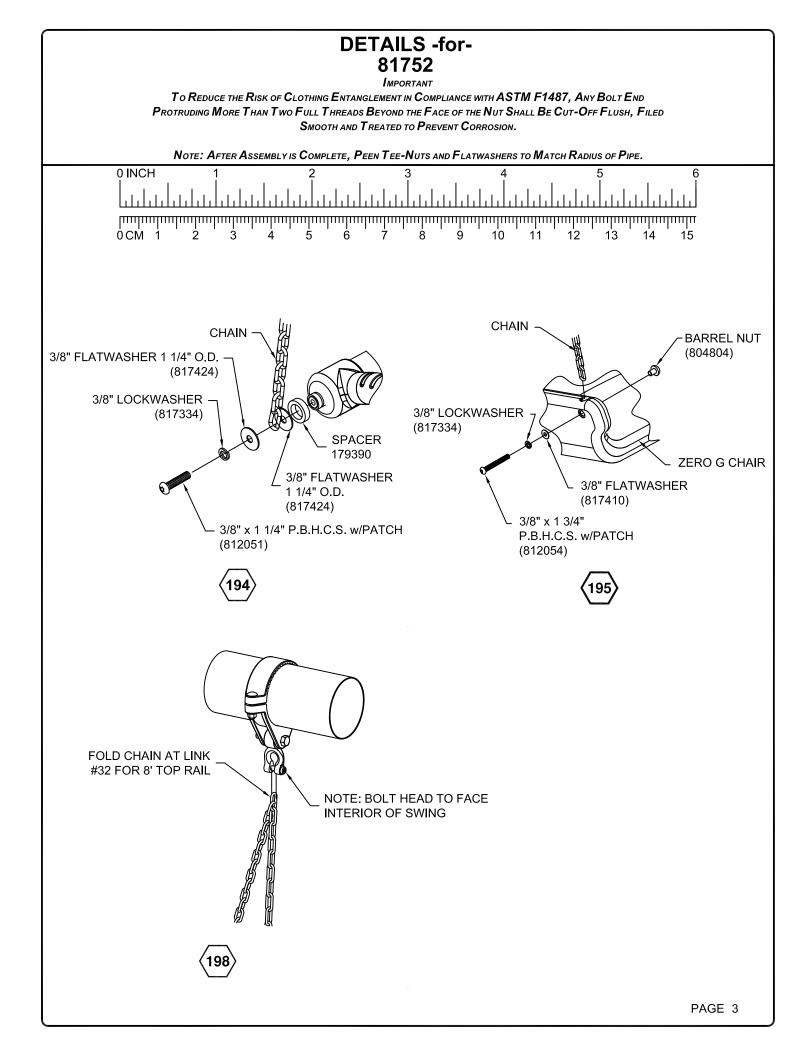
REF.		NO. I	REQ'D.	PART
NO.	DESCRIPTION	81752	SS1752	NUMBER
1	Zero G Chair Assembly	1	1	178862
2	Seat Brace (Yellow)	1	1	214730**
3	Seat Latch (Yellow)	1	1	178513**
	Hardware Complete	1	0	178878
	Hardware Complete	0	1	178879
4	Galv. Chain, 100 5/8" Lg.	2	0	178866
4	S.S. Chain, 100 5/8" Lg.	0	2	178867
	3/8" x 1 1/4" P.B.H.C.S. w/Patch	2	2	812051*
	3/8" x 1 3/4" P.B.H.C.S. w/Patch	2	2	812054*
	3/8" Lockwasher	4	4	817334*
	3/8" Flatwasher	2	2	817410*
	3/8" Flatwasher (1 1/4" O.D.)	2	2	817424*
	3/8" Barrel Nut	2	2	804804*
	Swing Hanger	2	2	1487*
	Spacer	2	2	179390*

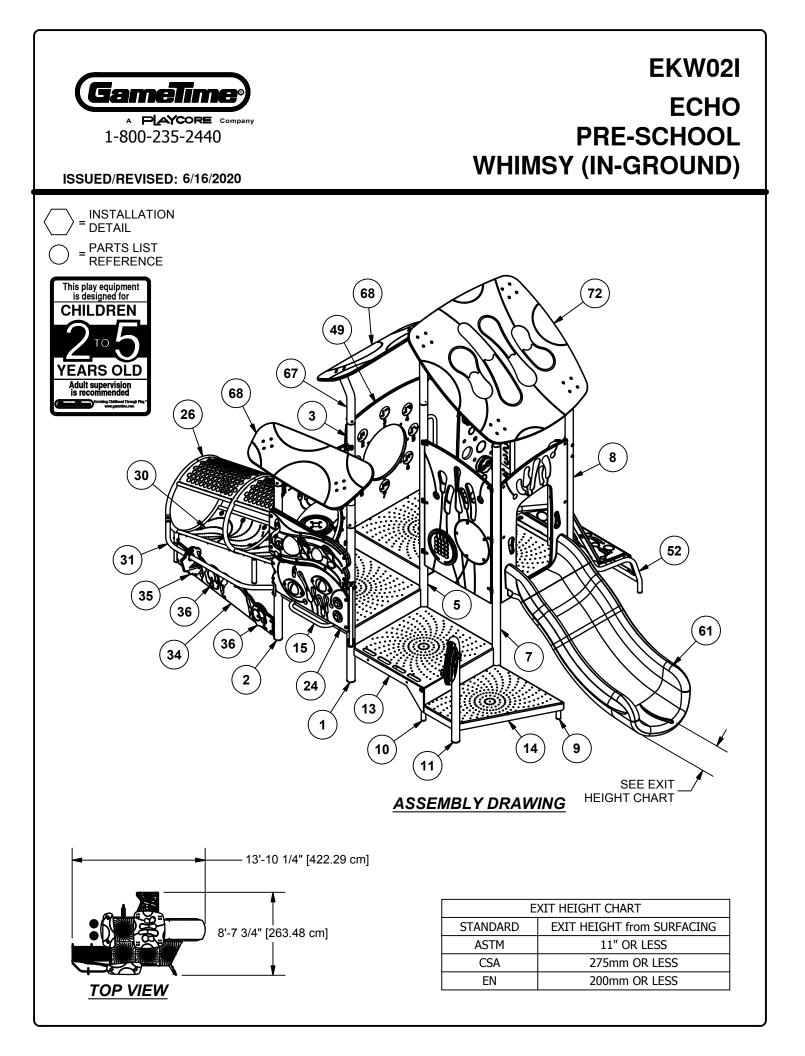
PARTS LIST

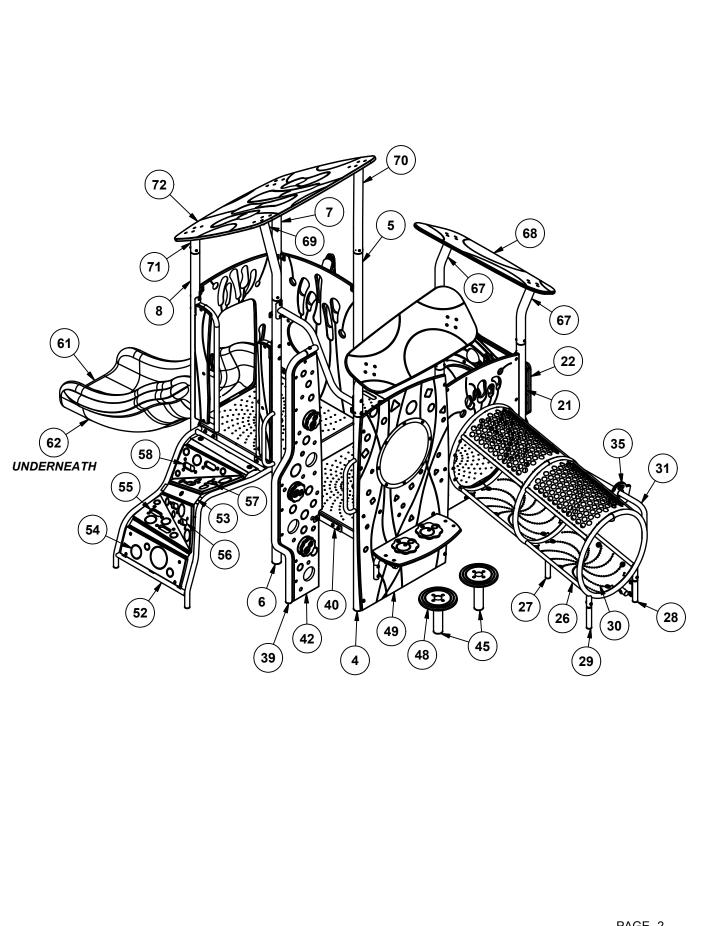
Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware ** Included in Seat Assembly

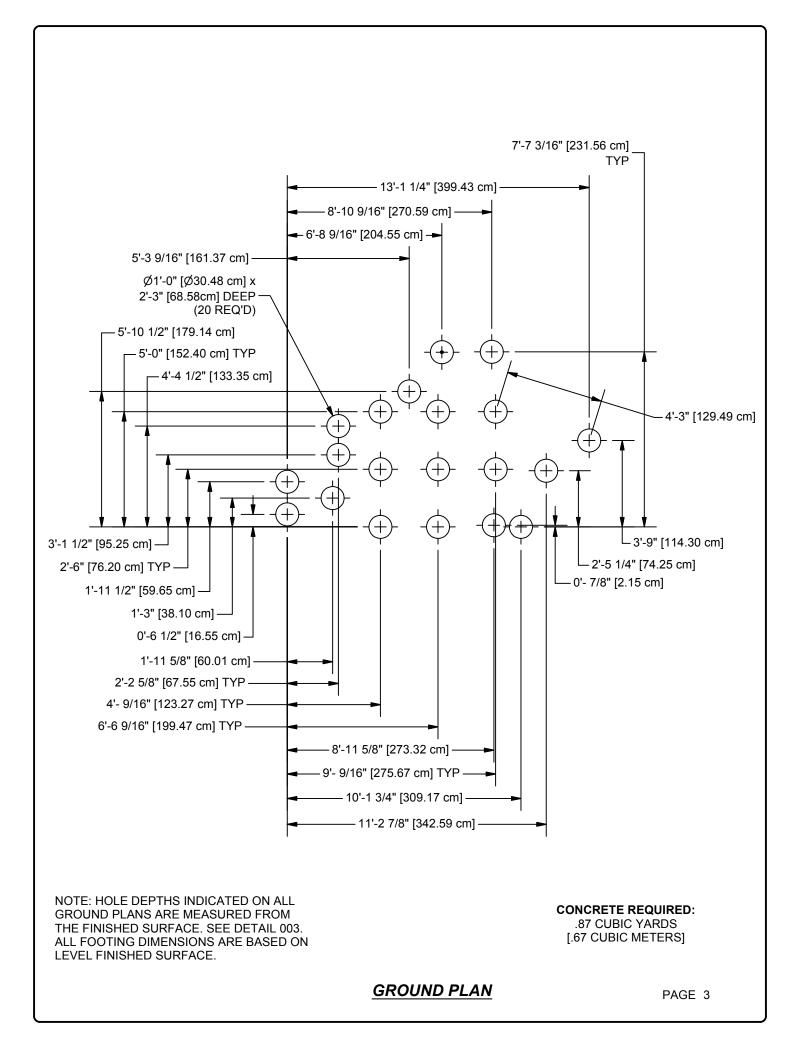
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

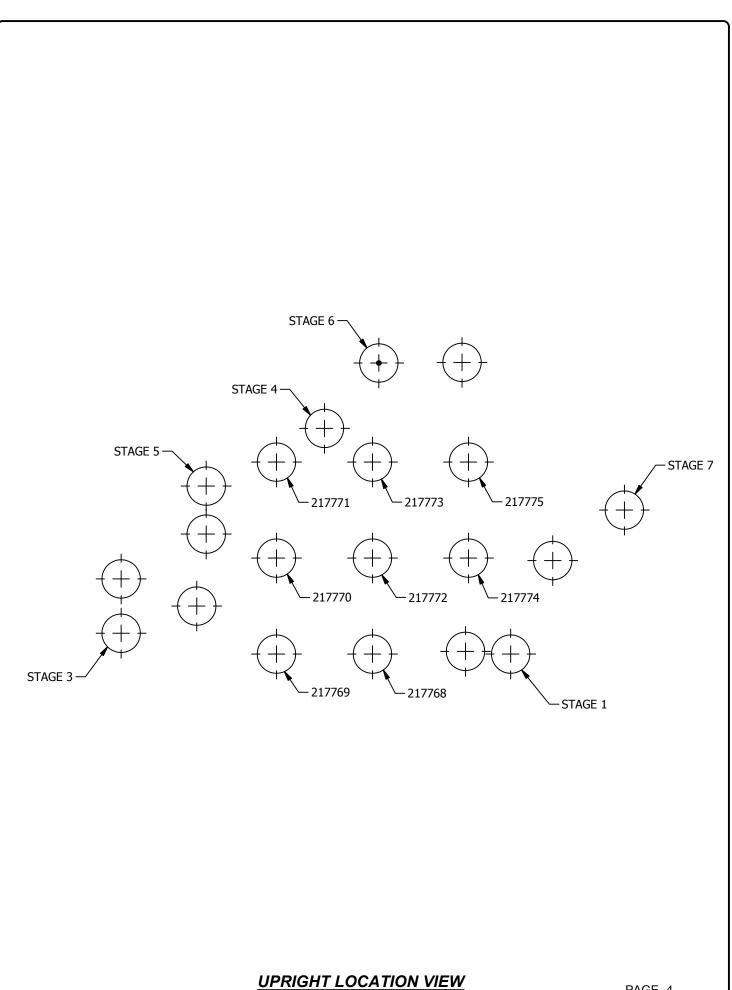
Note: Loctite (supplied by others) should be used on all threaded hardware.











EKW02I

Parts List			
REF	DESCRIPTION	QTY	PART NUMBER
1	UPRIGHT INSERT ASSEMBLY 1	1	SEE STAGE 1**
2	UPRIGHT INSERT ASSEMBLY 2	1	SEE STAGE 1**
3	UPRIGHT INSERT ASSEMBLY 3	1	SEE STAGE 1**
4	UPRIGHT INSERT ASSEMBLY 4	1	SEE STAGE 1**
5	UPRIGHT INSERT ASSEMBLY 5	1	SEE STAGE 1**
6	UPRIGHT INSERT ASSEMBLY 6	1	SEE STAGE 1**
7	UPRIGHT INSERT ASSEMBLY 7	1	SEE STAGE 1**
8	UPRIGHT INSERT ASSEMBLY 8	1	SEE STAGE 1**
9	DECK SUPPORT PIPE	1	SEE STAGE 1**
10	DECK SUPPORT PIPE	1	SEE STAGE 1**
11	HAND CYCLER ASSEMBLY	1	SEE STAGE 1**
12	COATED ECHO DECK	3	SEE STAGE 1**
13	COATED ECHO DECK WITH SLOTS	1	SEE STAGE 1**
14	COATED ECHO ANGLE DECK	1	SEE STAGE 1**
15	WALKING RAIL ASSEMBLY	3	SEE STAGE 2 & 4**
16	HANDHOLD WELD ASSEMBLY	1	SEE STAGE 2**
17	SMALL BELL WELD ASS'Y	2	SEE STAGE 2**
18	MEDIUM BELL WELD ASS'Y	2	SEE STAGE 2**
19	SPIN CHIME BELL ASS'Y	2	SEE STAGE 2**
20	BELL PANEL PLATE	1	SEE STAGE 2**
21	BELL HDPE PANEL INTERIOR	1	SEE STAGE 2**
22	BELL HDPE PANEL EXTERIOR	1	SEE STAGE 2**
23	MUSIC NOTE HDPE	4	SEE STAGE 2**
24	AURA SPINCHIME HDPE PANEL	1	SEE STAGE 2**
25	SPIN CHIME HDPE COVER	4	SEE STAGE 2**
26	CRAWL TUNNEL WELD ASSEMBLY	1	SEE STAGE 3**
27	CRAWL TUNNEL CENTER SUPPORT SWAGE PIPE	1	SEE STAGE 3**
28	TABBED CRAWL TUNNEL SUPPORT WELD ASSEMBLY	1	SEE STAGE 3**
29	CRAWL TUNNEL SUPPORT SWAGE PIPE	1	SEE STAGE 3**
30	COATED CRAWL TUNNEL PANEL	2	SEE STAGE 3**
31	WATERCAN SLIDER SWEEP WELD ASSEMBLY	1	SEE STAGE 3**
32	BRACE WELD ASSEMBLY	1	SEE STAGE 3**
33	ТАВ	18	SEE STAGE 3, 7, & 8**
34	GARDEN HDPE PANEL	1	SEE STAGE 3**
35	HDPE SLIDER WATERCAN	1	SEE STAGE 3**
36	HDPE QUIRKY CIRCLE	4	SEE STAGE 3 & 5**
37	TUNNEL CLIMBER HDPE ENTRY	1	SEE STAGE 3**
38	FORMED ROOF ATTACHMENT WELD ASSEMBLY 2	1	SEE STAGE 4**
39	PANEL MOUNT WELD ASSEMBLY	1	SEE STAGE 4**
40	DECK TO PANEL MOUNT WELD ASSEMBLY	1	SEE STAGE 4**
41	SOCKET WELD ASSEMBLY	1	SEE STAGE 4**
42	WHIMSY WALL HDPE CLIMBER	1	SEE STAGE 4**
43	HDPE QUIRKY GRIP	6	SEE STAGE 4**
44	HDPE QUIRKY GRIP SPACER	6	SEE STAGE 4**
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EKW02I

	Parts List		
REF	DESCRIPTION	QTY	PART NUMBER
45	SEAT SUPPORT WELD ASSEMBLY	2	SEE STAGE 5**
46	TABLE BRACKET WELD ASSEMBLY	2	SEE STAGE 5**
47	DISCOVERY HDPE TABLE	1	SEE STAGE 5**
48	HDPE SEAT	2	SEE STAGE 5**
49	SHAPES BUBBLE HDPE PANEL	1	SEE STAGE 5**
50	CLEAR BUBBLE 18" DIA.	1	SEE STAGE 5**
51	WRINKLE CLIMBER ENTRYWAY WELD ASSEMBLY	2	SEE STAGE 6**
52	WRINKLE CLIMBER WELD ASSEMBLY	1	SEE STAGE 6**
53	FORMED PANEL	1	SEE STAGE 6**
54	WRINKLE CLIMBER HDPE 1	1	SEE STAGE 6**
55	WRINKLE CLIMBER HDPE 2	1	SEE STAGE 6**
56	WRINKLE CLIMBER HDPE 3	1	SEE STAGE 6**
57	WRINKLE CLIMBER HDPE 4	1	SEE STAGE 6**
58	WRINKLE CLIMBER HDPE 5	1	SEE STAGE 6**
59	WRINKLE CLIMBER HDPE ENTRYWAY LEFT	1	SEE STAGE 6**
60	WRINKLE CLIMBER HDPE ENTRYWAY RIGHT	1	SEE STAGE 6**
61	3' ZIP SLIDE	1	SEE STAGE 7**
62	SLIDE FOOTBUCK WELD ASSEMBLY	1	SEE STAGE 7**
63	AURA SLIDE HDPE BARRIER	1	SEE STAGE 7**
64	THREE IN A ROW	1	SEE STAGE 8**
65	14" POLYCARBONATE YELLOW PANEL	1	SEE STAGE 8**
66	AURA GIZMO HDPE PANEL	1	SEE STAGE 8**
67	FORMED ROOF ATTACHMENT WELD ASSEMBLY 1	3	SEE STAGE 9**
68	HDPE BUBBLE WING	2	SEE STAGE 9**
69	FORMED ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY 1	1	SEE STAGE 10**
70	FORMED ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY 2	1	SEE STAGE 10**
71	ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY	2	SEE STAGE 10**
72	HDPE ROOF	1	SEE STAGE 10**
	HARDWARE COMPLETE -for- STAGE 1	1	218256
	HARDWARE COMPLETE -for- STAGE 2	1	218189
	HARDWARE COMPLETE -for- STAGE 3	1	218257
	HARDWARE COMPLETE -for- STAGE 4	1	218263
	HARDWARE COMPLETE -for- STAGE 5	1	218259
	HARDWARE COMPLETE -for- STAGE 6	1	218758
	HARDWARE COMPLETE -for- STAGE 7	1	218261
	HARDWARE COMPLETE -for- STAGE 8	1	218195
	HARDWARE COMPLETE -for- STAGE 9	1	218196
	HARDWARE COMPLETE -for- STAGE 10	1	218197

Unless Otherwise Specified, All Units of Measure are Each

**See Individual Pages For Stage Drawing, Installation Instructions And Parts List

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

^{*} Included in Hardware

UPRIGHT INSERT ASSEMBLIES 1-8: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing. Upright Insert Assemblies 1-8 shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

DECK SUPPORT PIPE: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing. Deck Support Pipe shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HAND CYCLER ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing, 11 Gauge H.R. Steel, and 14 Gauge H.R. Steel. The Hand Cycler Post Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein. Included in Hand Cycler Assembly is 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene, 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene, 1/4" Stainless Steel Ball, Bronze Bearing, and Rubber-Coated Polypropylene Plastic Star Knob.

COATED ECHO DECK: The deck shall be fabricated in conformance with the punched steel specifications outlined herein. The deck frame shall be fabricated from .109" (12 Gauge) Thick H.R. Steel with corner plates fabricated from .109" (12 Gauge) Thick H.R. Steel. Intermediate supports, fabricated from .109" (12 Gauge) Thick H.R. Steel, shall be notched and welded at the intersections. The deck shall be a one-piece welded assembly, coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating in accordance with the specifications herein.

COATED ECHO DECK WITH SLOTS: The deck shall be fabricated in conformance with the punched steel specifications outlined herein. The deck frame shall be fabricated from .109" (12 Gauge) Thick H.R. Steel with corner plates fabricated from .109" (12 Gauge) Thick H.R. Steel. Intermediate supports, fabricated from .109" (12 Gauge) Thick H.R. Steel, shall be notched and welded at the intersections. The deck shall be a one-piece welded assembly, coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating in accordance with the specifications herein.

COATED ECHO ANGLE DECK: The deck shall be fabricated in conformance with the punched steel specifications outlined herein. The deck frame shall be fabricated from .109" (12 Gauge) Thick H.R. Steel with corner plates fabricated from .109" (12 Gauge) Thick H.R. Steel, shall be notched and welded at the intersections. The deck shall be a one-piece welded assembly, coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating in accordance with the specifications herein.

WALKING RAIL ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing and threaded crimped insert. Walking Rail Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HANDHOLD WELD ASSEMBLY (217615): Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Handhold Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SMALL BELL WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing, 16 Gauge Thick H.R. Steel, and Threaded Crimped Insert. Small Bell Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

MEDIUM BELL WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing, 16 Gauge Thick H.R. Steel, and Threaded Crimped Insert. Medium Bell Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SPIN CHIME BELL ASSEMBLY: Shall be fabricated from 16 Gauge Galvaneal H.R. Steel, 3/8" x 5" 300 Series Stainless Steel Threaded Rod, 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, and a purchased oil impregnated bronze insert. Spin Chime Bell Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

BELL PANEL PLATE: Shall be fabricated from 12 Gauge Thick H.R. Steel. Bell Panel Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

BELL HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

MUSIC NOTE HDPE: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

AURA SPINCHIME HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SPIN CHIME HDPE COVER: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

CRAWL TUNNEL WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .109" (12 Gauge) wall galvanized steel tubing, 1/8" Thick H.R. Steel, and 14 Gauge Thick H.R. Steel. Crawl Tunnel Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

CRAWL TUNNEL CENTER SUPPORT SWAGE PIPE: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing. Crawl Tunnel Center Support Swage Pipe shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

TABBED CRAWL TUNNEL SUPPORT WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing and 1/8" Thick H.R. Steel. Tabbed Crawl Tunnel Support Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

CRAWL TUNNEL SUPPORT SWAGE PIPE: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing. Crawl Tunnel Support Swage Pipe shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

COATED CRAWL TUNNEL PANEL: Shall be fabricated from 12 Gauge Thick H.R. Steel that has been coated using an oven fused functionalized polyethylene copolymer-based thermoplastic. Fluidized bed coating application with superior mechanical performance, impact resistance and UV-stability.

WATERCAN SLIDER SWEEP WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Watercan Slider Sweep Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

BRACE WELD ASSEMBLY: Shall be fabricated from 1-1/16" O.D. x .072" (15 Gauge) wall galvanized steel tubing and 14 Gauge Thick H.R. Steel. Brace Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

TAB: Shall be fabricated from 1/8" Thick H.R. Steel. Tabs shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

GARDEN HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE SLIDER WATERCAN: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE QUIRKY CIRCLE: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

TUNNEL CLIMBER HDPE ENTRY: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

PANEL MOUNT WELD ASSEMBLY: Shall be fabricated from 1-5/8" O.D. x .109" (12 Gauge) wall galvanized steel tubing and 1/8" Thick H.R. Steel. Panel Mount Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

DECK TO PANEL MOUNT WELD ASSEMBLY: Shall be fabricated from 3/16" Thick H.R. Steel and 1/4" Thick H.R. Steel. Deck To Panel Mount Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SOCKET WELD ASSEMBLY: Shall be fabricated from 1-5/8" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 1-5/8" O.D. x .140" wall galvanized steel tubing (SCH 40), and 3/16" Thick H.R. Steel. Socket Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

WHIMSY WALL HDPE CLIMBER: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE QUIRKY GRIP: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE QUIRKY GRIP SPACER: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SEAT SUPPORT WELD ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Seat Support Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

TABLE BRACKET WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing and 14 Gauge Thick H.R. Steel. Table Bracket Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

DISCOVERY HDPE TABLE: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE SEAT: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SHAPES BUBBLE HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

CLEAR BUBBLE 18" DIA: Shall be made from 1/8" thick Clear Polycarbonate.

WRINKLE CLIMBER ENTRYWAY WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 3/16" Thick H.R. Steel, 14 Gauge Thick H.R. Steel, and Threaded Crimped Insert. Wrinkle Climber Entryway Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

WRINKLE CLIMBER WELD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .133" (10 Gauge) wall galvanized steel tubing, 11 Gauge Thick H.R. Steel, and 3/16" Thick H.R. Steel. Wrinkle Climber Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

FORMED PANEL: Shall be fabricated from 11 Gauge Thick H.R. Steel. Formed Panel shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

WRINKLE CLIMBER HDPE: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

WRINKLE CLIMBER HDPE ENTRYWAY: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SLIDE: Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

SLIDE FOOTBUCK WELD ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 11 Gauge Thick H.R. Steel. Slide Footbuck Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

AURA SLIDE HDPE BARRIER: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

THREE IN A ROW: Panel shall be color-impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein. Three In A Row shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene. Some Three In A Row also includes Chrome Plated Steel or Polycarbonate.

14" POLYCARBONATE YELLOW PANEL: Purchased 1/4" Polycarbonate Panel

AURA GIZMO HDPE PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

HDPE BUBBLE WING: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

FORMED ROOF ATTACHMENT WELD ASSEMBLIES: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Formed Roof Attachment Weld Assemblies shall be all weld assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

FORMED ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLIES: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Formed Angle Cut Roof Attachment Weld Assemblies shall be all weld assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY: Shall be fabricated from 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing and 3/16" Thick H.R. Steel. Angle Cut Roof Attachment Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

HDPE ROOF: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

PUNCHED STEEL DECKS AND PVC COATED COMPONENTS: All punched steel products shall be fabricated from 12 Gauge punched steel with a protective p&o finish. Coated products shall consist of a welded assembly with an oven cured matte finish polyvinyl chloride (PVC) coating with a minimum coating thickness of .080". All decks shall be exclusively dipped utilizing the DuraWear process with an extra thick coating on the top of the deck. The PVC coating shall have a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. The PVC coating shall contain pthalate levels in concentrations of 1/10 of 1% or lower. For ADA Ramp Accessible decks and ramps, the hole shall measure 1/4" diameter after coating.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play

equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.





□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

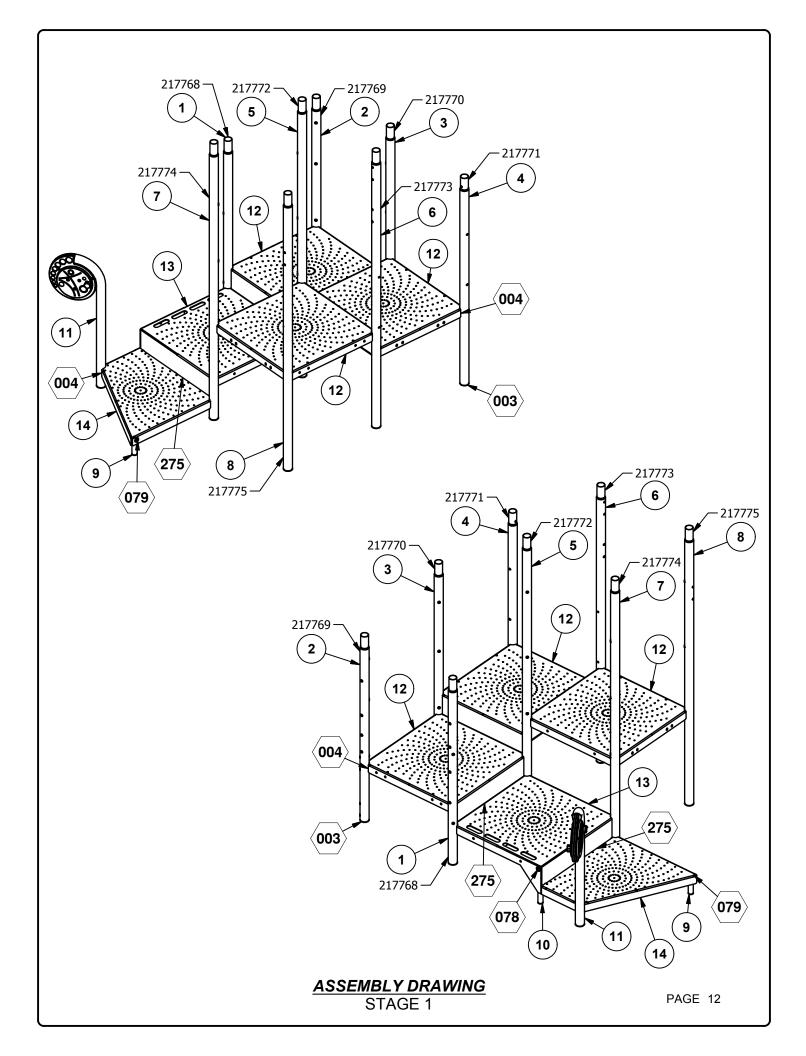
□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

□ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

Check to be sure all fittings are tight and that the bars and pipes do not move.

□ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.



STAGE 1

Parts List				
REF	DESCRIPTION	QTY	PART NUMBER	
1	UPRIGHT INSERT ASSEMBLY 1	1	217768	
2	UPRIGHT INSERT ASSEMBLY 2	1	217769	
3	UPRIGHT INSERT ASSEMBLY 3	1	217770	
4	UPRIGHT INSERT ASSEMBLY 4	1	217771	
5	UPRIGHT INSERT ASSEMBLY 5	1	217772	
6	UPRIGHT INSERT ASSEMBLY 6	1	217773	
7	UPRIGHT INSERT ASSEMBLY 7	1	217774	
8	UPRIGHT INSERT ASSEMBLY 8	1	217775	
9	DECK SUPPORT PIPE	1	217764	
10	DECK SUPPORT PIPE	1	218726	
11	HAND CYCLER ASSEMBLY	1	218740	
12	COATED ECHO DECK	3	217628	
13	COATED ECHO DECK WITH SLOTS	1	217620	
14	COATED ECHO ANGLE DECK	1	217619	
	HARDWARE COMPLETE	1	218256	
	3/8" x 3/4" B.H.C.S.	9	811052*	
	3/8" x 1 1/4" B.H.C.S.	17	811051*	
	3/8" x 1 3/4" B.H.C.S.	2	811054*	
	3/8" FLAT WASHER (1 1/4" O.D.)	28	817424*	
	3/8" LOCK WASHER	28	817334*	
	3/8" T-NUT	11	804556*	

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS STAGE 1

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

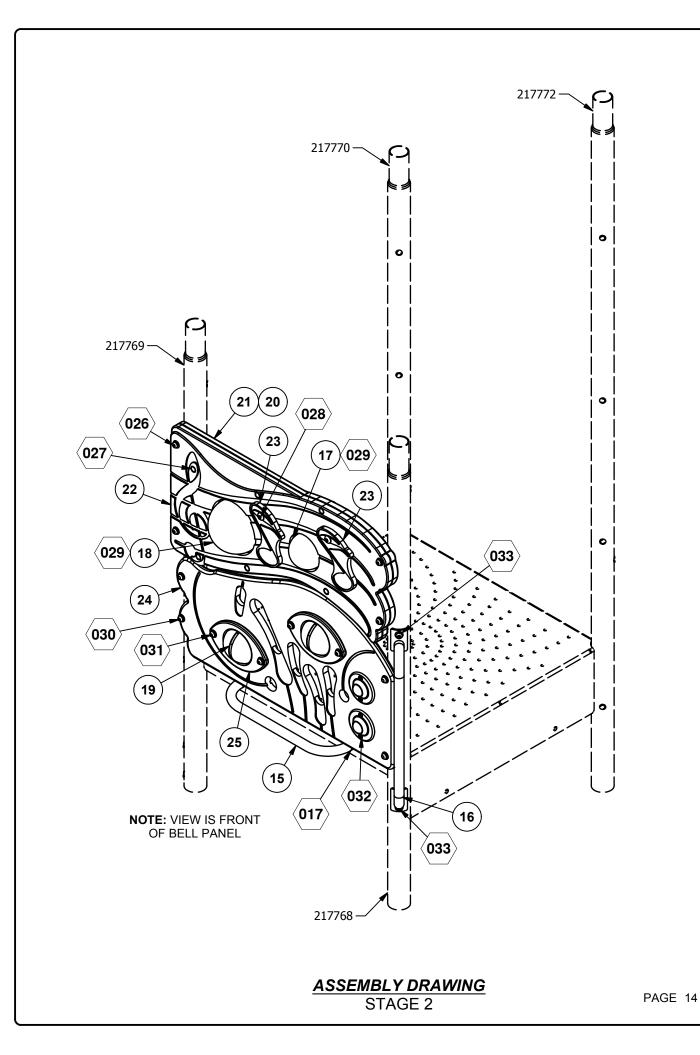
STEP 1: Dig required holes. See Ground Plan and Detail 003.

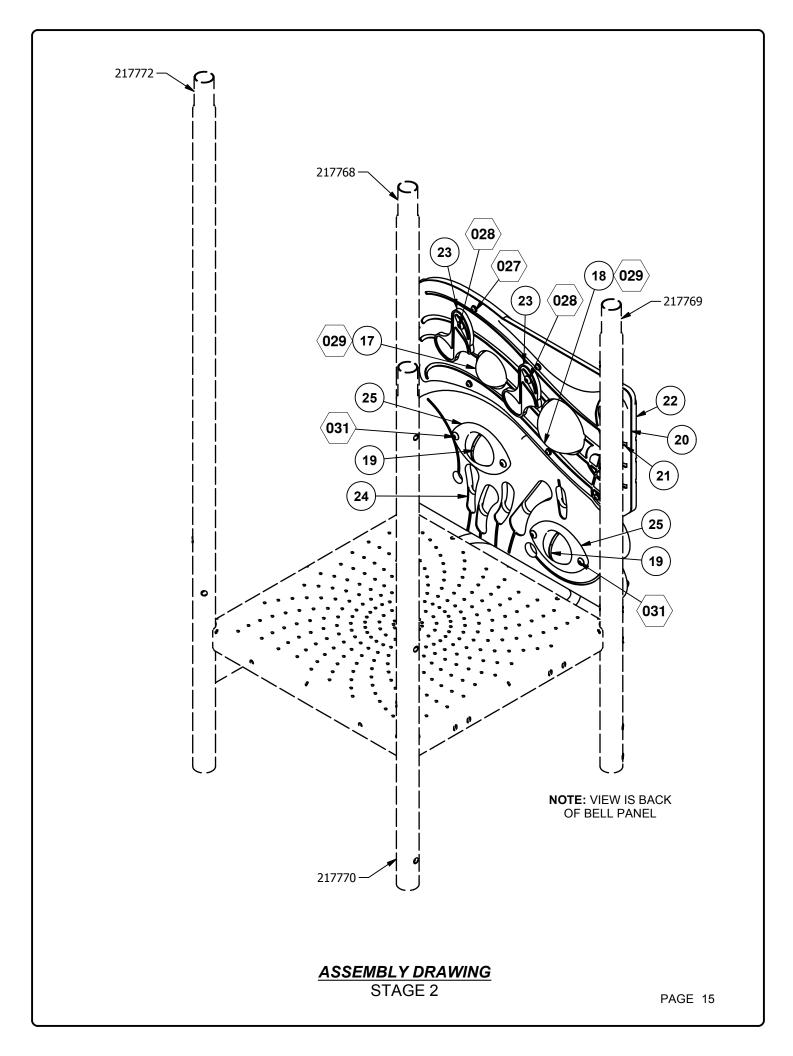
STEP 2: Place Uprights in the holes using Stage 1, Ground Plan, and Upright Location View.

STEP 3: Attach Decks to Uprights and Hand Cycler Assembly using Detail 004. Attach Decks together using Detail 275.

STEP 4: Attach Coated Echo Angle Deck to Deck Support Pipe (217764) using Detail 079.

STEP 5: Attach Coated Echo Deck With Slots to Deck Support Pipe (218726) using Detail 078.





	Parts List		
REF	DESCRIPTION	QTY	PART NUMBER
15	WALKING RAIL ASSEMBLY	1	217595
16	HANDHOLD WELD ASSEMBLY	1	217615
17	SMALL BELL WELD ASS'Y	2	212180
18	MEDIUM BELL WELD ASS'Y	2	212176
19	SPIN CHIME BELL ASS'Y	2	217941
20	BELL PANEL PLATE	1	217539
21	BELL HDPE PANEL INTERIOR	1	217214
22	BELL HDPE PANEL EXTERIOR	1	217213
23	MUSIC NOTE HDPE	4	217558
24	AURA SPINCHIME HDPE PANEL	1	217196
25	SPIN CHIME HDPE COVER	4	217502
	HARDWARE COMPLETE	1	218189
	5/16" x 1 1/2" B.H.C.S.	6	811045*
	5/16" FLAT WASHER (5/8" O.D.)	6	817406*
	5/16" LOCK WASHER	6	817330*
	NUT 5/16"- INSERT TYPE 1	6	HWN0149*
	3/8" x 1" B.H.C.S.	2	811050*
	3/8" x 1 1/4" B.H.C.S.	2	811051*
	3/8" x 1 1/2" B.H.C.S.	4	811053*
	3/8" x 1 3/4" B.H.C.S.	4	811054*
	3/8" x 2" THREADED ROD	2	803560*
	3/8" x 2 1/2" THREADED STUD	2	803583*
	3/8" x 3" B.H.C.S.	4	811059*
	3/8" BARREL NUT	8	804804*
	3/8" FLAT WASHER	14	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	6	817424*
	3/8" LOCK WASHER	16	817334*
	#10 X 3/4" PAN HEAD PHILLIPS SCREW	4	809605*
	1-1/2" SS BALL TRANSFER	2	215170*

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INSTALLATION INSTRUCTIONS STAGE 2

STEP 1: Attach Walking Rail Assembly to Coated Echo Deck using Detail 017.

STEP 2: Attach Handhold Weld Assembly (217615) to Upright using Detail 033.

STEP 3: Attach Bell HDPE Panel Interior and Bell HDPE Panel Exterior to Bell Panel Plate using Detail 027.

STEP 4: Attach Bell HDPE Panel Interior, Bell HDPE Panel Exterior, and Bell Panel Plate to Uprights using Detail 026.

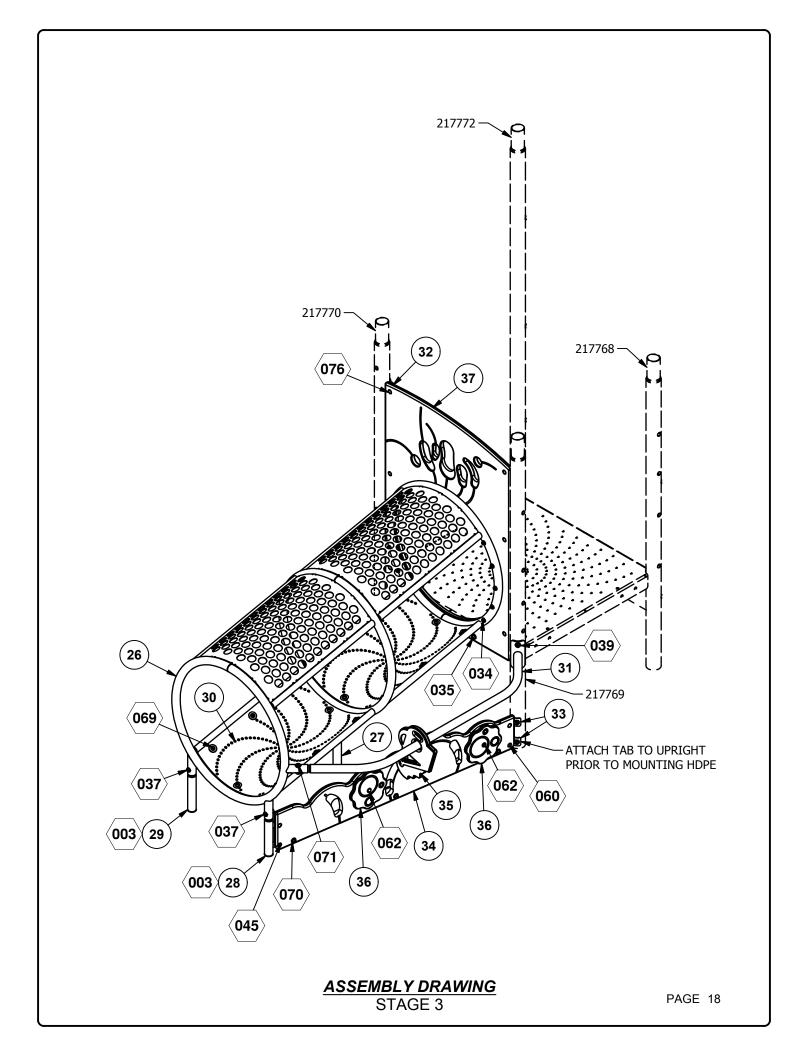
STEP 5: Attach Aura Spinchime HDPE Panel to Uprights using Detail 030.

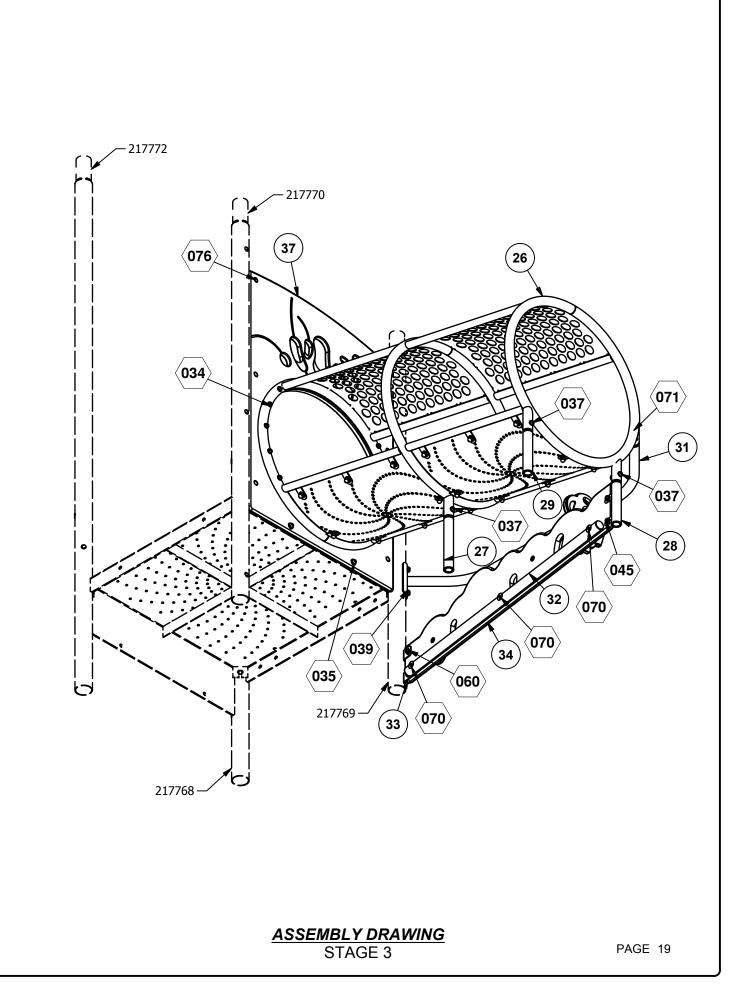
STEP 6: Attach Small Bell Weld Assembly and Medium Bell Weld Assembly to Bell HDPE Panels using Detail 029.

STEP 7: Attach Music Note HDPE to Bell HDPE Panels using Detail 028.

STEP 8: Attach Spin Chime Covers and Spin Chime Bell Assembly to Aura Spinchime HDPE Panel using Detail 031.

STEP 9: Attach 1-1/2" SS Ball Transfers to Aura Spinchime HDPE Panel using Detail 032.





	Parts List		
REF	DESCRIPTION	QTY	PART NUMBER
26	CRAWL TUNNEL WELD ASSEMBLY	1	217608
27	CRAWL TUNNEL CENTER SUPPORT SWAGE PIPE	1	217758
28	TABBED CRAWL TUNNEL SUPPORT WELD ASSEMBLY	1	217761
29	CRAWL TUNNEL SUPPORT SWAGE PIPE	1	217755
30	COATED CRAWL TUNNEL PANEL	2	217621
31	WATERCAN SLIDER SWEEP WELD ASSEMBLY	1	217607
32	BRACE WELD ASSEMBLY	1	218664
33	ТАВ	8	217582
34	GARDEN HDPE PANEL	1	217195
35	HDPE SLIDER WATERCAN	1	217194
36	HDPE QUIRKY CIRCLE	2	217563
37	TUNNEL CLIMBER HDPE ENTRY	1	217216
	HARDWARE COMPLETE	1	218257
	5/16" x 3/4" B.H.C.S.	10	811040*
	5/16" x 1 1/4" P.B.H.C.S. w/PATCH	2	812044*
	5/16" x 2" B.H.C.S.	10	811046*
	5/16" FLAT WASHER (5/8" O.D.)	22	817406*
	5/16" LOCK WASHER	20	817330*
	5/16" STAINLESS STEEL BARREL NUT	2	804813*
	NUT 5/16"- INSERT TYPE 1	20	HWN0149*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	16	812052*
	3/8" x 1" B.H.C.S.	2	811050*
	3/8" x 1 1/4" B.H.C.S.	14	811051*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	3	812056*
	3/8" ACORN NUT	16	804002*
	3/8" BARREL NUT	4	804804*
	3/8" FLAT WASHER	32	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	16	817424*
	3/8" LOCK WASHER	19	817334*
	3/8" T-NUT	5	804556*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS STAGE 3

STEP 1: Attach Tabs and Tunnel Climber HDPE Entry to Uprights using Detail 076; Attach Tunnel Cilmber HDPE Entry to Coated Echo Deck using Detail 035.

STEP 2: Attach Crawl Tunnel Center Support Swage Pipe, Tabbed Crawl Tunnel Support Weld Assembly, and Crawl Tunnel Support Swage Pipe to Crawl Tunnel Weld Assembly using Detail 037.

STEP 3: Attach Crawl Tunnel Weld Assembly to Tunnel Climber HDPE Entry using Detail 034.

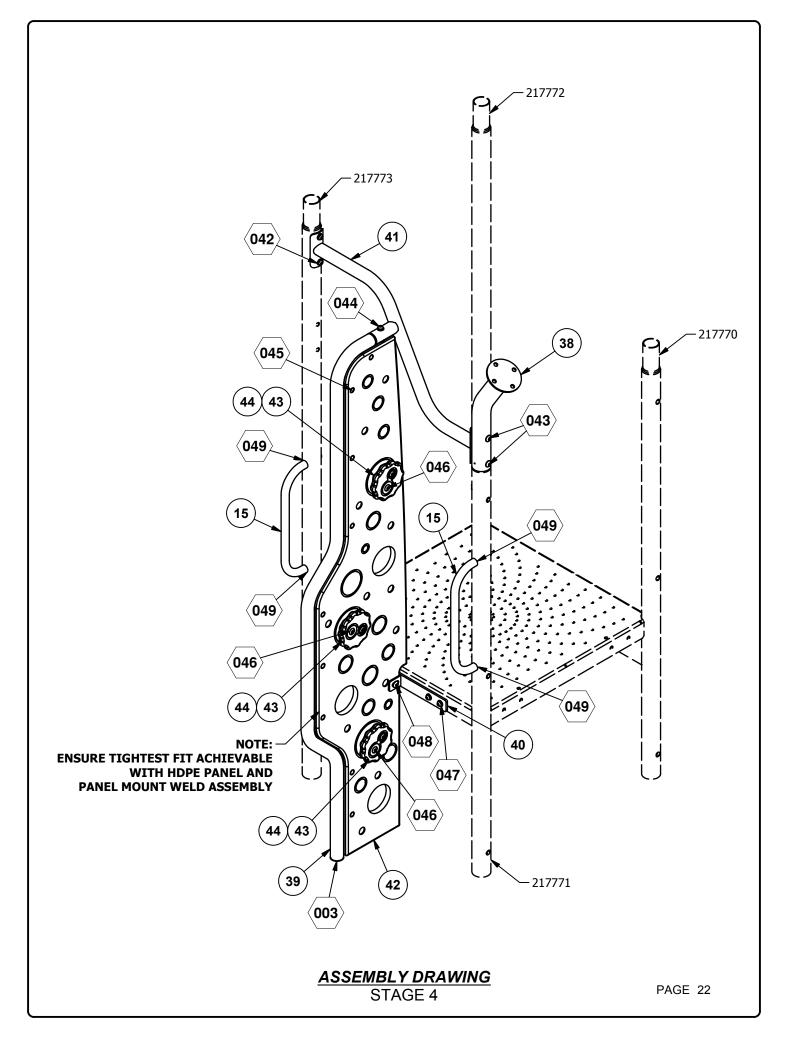
STEP 4: Attach Coated Crawl Tunnel Panel to Crawl Tunnel Weld Assembly using Detail 069.

STEP 5: Attach Garden HDPE Panel to Tabbed Crawl Tunnel Support Weld Assembly using Detail 045; Attach Garden HDPE Panel and Tabs to Upright using Detail 060. **NOTE:** Attach Tabs to Uprights prior to mounting HDPE.

STEP 6: Attach HDPE Quirky Circles to Garden HDPE Panel using Detail 062.

STEP 7: Attach HDPE Slider Watercan and Watercan Slider Sweep Weld Assembly to Crawl Tunnel Weld Assembly using Detail 071; Attach Watercan Slider Sweep Weld Assembly to Upright using Detail 039. **NOTE:** Slide HDPE Slider Watercan onto Watercan Slider Sweep Weld Assembly before attaching Watercan Slider Sweep Weld Assembly.

STEP 8: Attach Brace Weld Assembly to the back of Garden HDPE Panel using Detail 070.



	Parts List		
REF	DESCRIPTION	QTY	PART NUMBER
15	WALKING RAIL ASSEMBLY	2	217595
38	FORMED ROOF ATTACHMENT WELD ASSEMBLY 2	1	217598
39	PANEL MOUNT WELD ASSEMBLY	1	217746
40	DECK TO PANEL MOUNT WELD ASSEMBLY	1	217605
41	SOCKET WELD ASSEMBLY	1	217606
42	WHIMSY WALL HDPE CLIMBER	1	217570
43	HDPE QUIRKY GRIP	6	217564
44	HDPE QUIRKY GRIP SPACER	6	217565
	HARDWARE COMPLETE	1	218263
	5/16" x 3/4" B.H.C.S.	9	811040*
	5/16" FLAT WASHER (5/8" O.D.)	9	817406*
	5/16" LOCK WASHER	9	817330*
	NUT 5/16"- INSERT TYPE 1	9	HWN0149*
	3/8" x 3/4" B.H.C.S.	4	811052*
	3/8" x 1" B.H.C.S.	1	811050*
	3/8" x 1 3/4" B.H.C.S.	1	811054*
	3/8" x 2 3/4" B.H.C.S.	4	811058*
	3/8" x 3" B.H.C.S.	4	811059*
	3/8" x 3 1/2" B.H.C.S.	6	811075*
	3/8" BARREL NUT	11	804804*
	3/8" FLAT WASHER	20	817410*
	3/8" LOCK WASHER	20	817334*
	3/8" T-NUT	5	804556*

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INSTALLATION INSTRUCTIONS STAGE 4

STEP 1: Attach Walking Rail Assembly to Uprights using Detail 049.

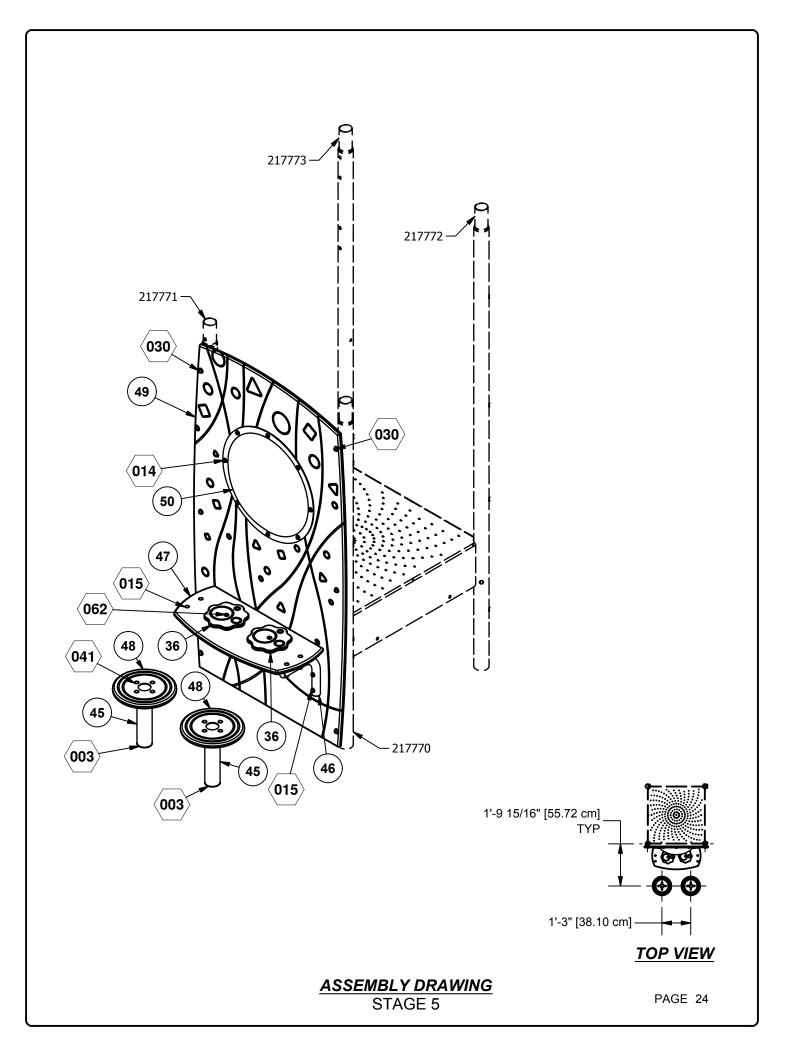
STEP 2: Attach Socket Weld Assembly to Upright using Detail 042; Attach Socket Weld Assembly and Formed Roof Attachment Weld Assembly 2 to Upright using Detail 043.

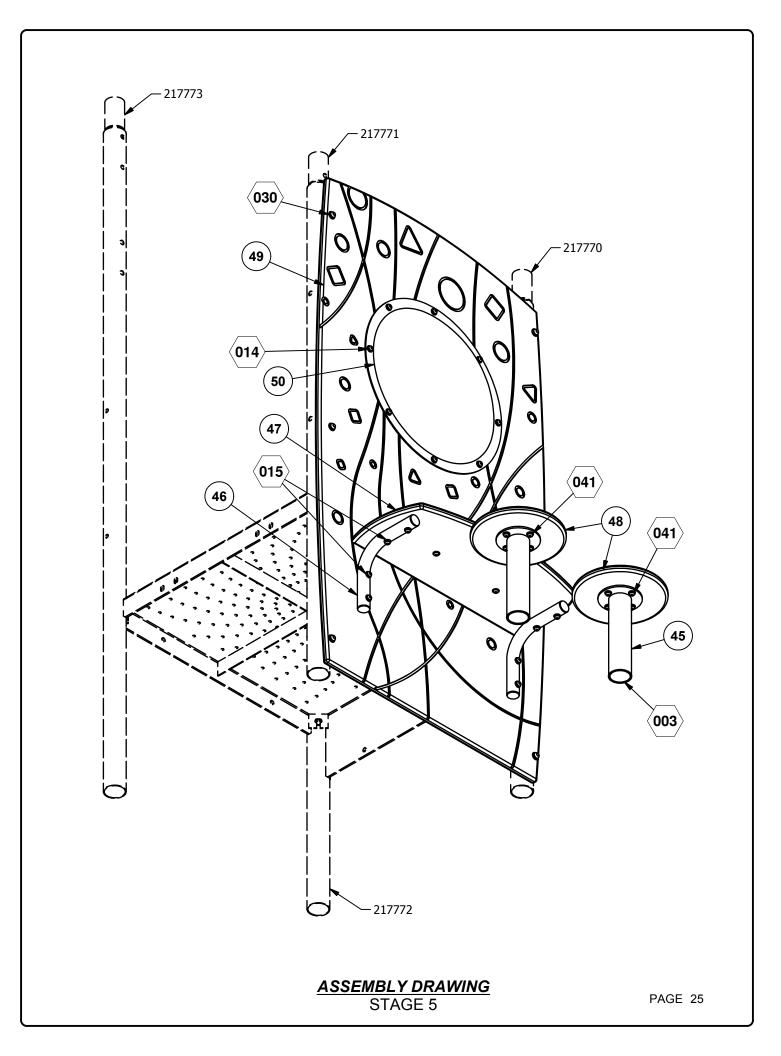
STEP 3: Attach Deck to Panel Mount Weld Assembly to Coated Echo Deck using Detail 047.

STEP 4: Attach Panel Mount Weld Assembly to Socket Weld Assembly using Detail 044.

STEP 5: Attach Whimsy Wall HDPE Climber to Panel Mount Weld Assembly using Detail 045. Attach Whimsy Wall HDPE Climber to Deck to Panel Mount Weld Assembly using Detail 048;

STEP 6: Attach HDPE Quirky Grip and HDPE Quirky Grip Spacer to Whimsy Wall HDPE Climber using Detail 046.





Parts List				
REF	DESCRIPTION	QTY	PART NUMBER	
36	HDPE QUIRKY CIRCLE	2	217563	
45	SEAT SUPPORT WELD ASSEMBLY	2	217742	
46	TABLE BRACKET WELD ASSEMBLY	2	217594	
47	DISCOVERY HDPE TABLE	1	217202	
48	HDPE SEAT	2	217566	
49	SHAPES BUBBLE HDPE PANEL	1	217567	
50	CLEAR BUBBLE 18" DIA.	1	312520	
	HARDWARE COMPLETE	1	218259	
	5/16" x 3/4" B.H.C.S.	16	811040*	
	5/16" x 1 1/4" P.B.H.C.S. w/PATCH	2	812044*	
	5/16" x 2" B.H.C.S.	8	811046*	
	5/16" FLAT WASHER (5/8" O.D.)	26	817406*	
	5/16" LOCK WASHER	24	817330*	
	5/16" STAINLESS STEEL BARREL NUT	2	804813*	
	NUT 5/16"- INSERT TYPE 1	24	HWN0149*	
	3/8" x 1 3/4" B.H.C.S.	6	811054*	
	3/8" FLAT WASHER	6	817410*	
	3/8" LOCK WASHER	6	817334*	

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INSTALLATION INSTRUCTIONS STAGE 5

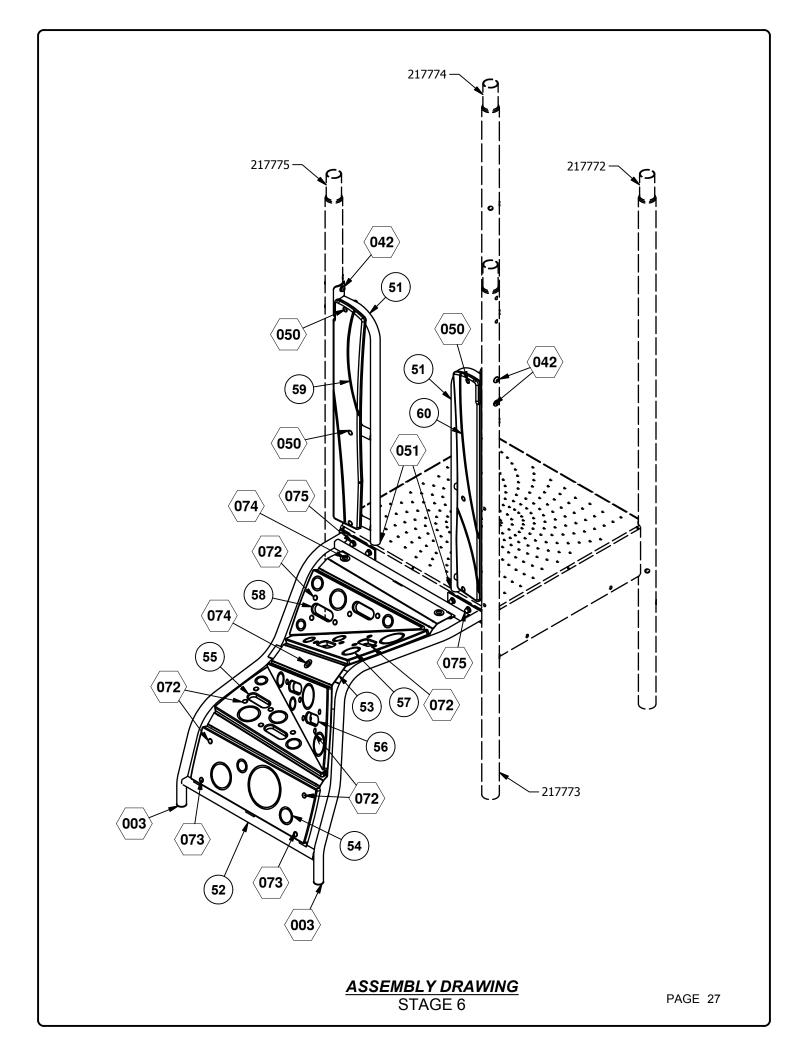
STEP 1: Attach Shapes Bubble HDPE Panel to Uprights using Detail 030.

STEP 2: Attach Clear Bubble 18" DIA to Shapes Bubble HDPE Panel using Detail 014.

STEP 3: Attach Table Bracket Weld Assembly and Discovery HDPE Table to Shapes Bubble HDPE Panel using Detail 015.

STEP 4: Attach HDPE Quirky Circles to Discovery HDPE Table using Detail 062.

STEP 5: Attach HDPE Seat to Seat Support Weld Assembly using Detail 041. Refer to Stage 5 Top View for spacing.



	Parts List		
REF	DESCRIPTION	QTY	PART NUMBER
51	WRINKLE CLIMBER ENTRYWAY WELD ASSEMBLY	2	217603
52	WRINKLE CLIMBER WELD ASSEMBLY	1	218734
53	FORMED PANEL	1	218684
54	WRINKLE CLIMBER HDPE 1	1	218722
55	WRINKLE CLIMBER HDPE 2	1	218721
56	WRINKLE CLIMBER HDPE 3	1	218720
57	WRINKLE CLIMBER HDPE 4	1	218719
58	WRINKLE CLIMBER HDPE 5	1	218718
59	WRINKLE CLIMBER HDPE ENTRYWAY LEFT	1	217568
60	WRINKLE CLIMBER HDPE ENTRYWAY RIGHT	1	217569
	HARDWARE COMPLETE	1	218758
	5/16" x 3/4" B.H.C.S.	24	811040*
	5/16" x 2" B.H.C.S.	6	811046*
	5/16" FLAT WASHER (5/8" O.D.)	30	817406*
	5/16" LOCK WASHER	30	817330*
	NUT 5/16"- INSERT TYPE 1	30	HWN0149*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	3	812052*
	3/8" x 1" P.B.H.C.S. w/PATCH	4	812050*
	3/8" x 1 1/4" B.H.C.S.	2	811051*
	3/8" x 2 3/4" B.H.C.S.	4	811058*
	3/8" ACORN NUT	7	804002*
	3/8" BARREL NUT	4	804804*
	3/8" FLAT WASHER	13	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	7	817424*
	3/8" LOCK WASHER	10	817334*

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INSTALLATION INSTRUCTIONS

STAGE 6

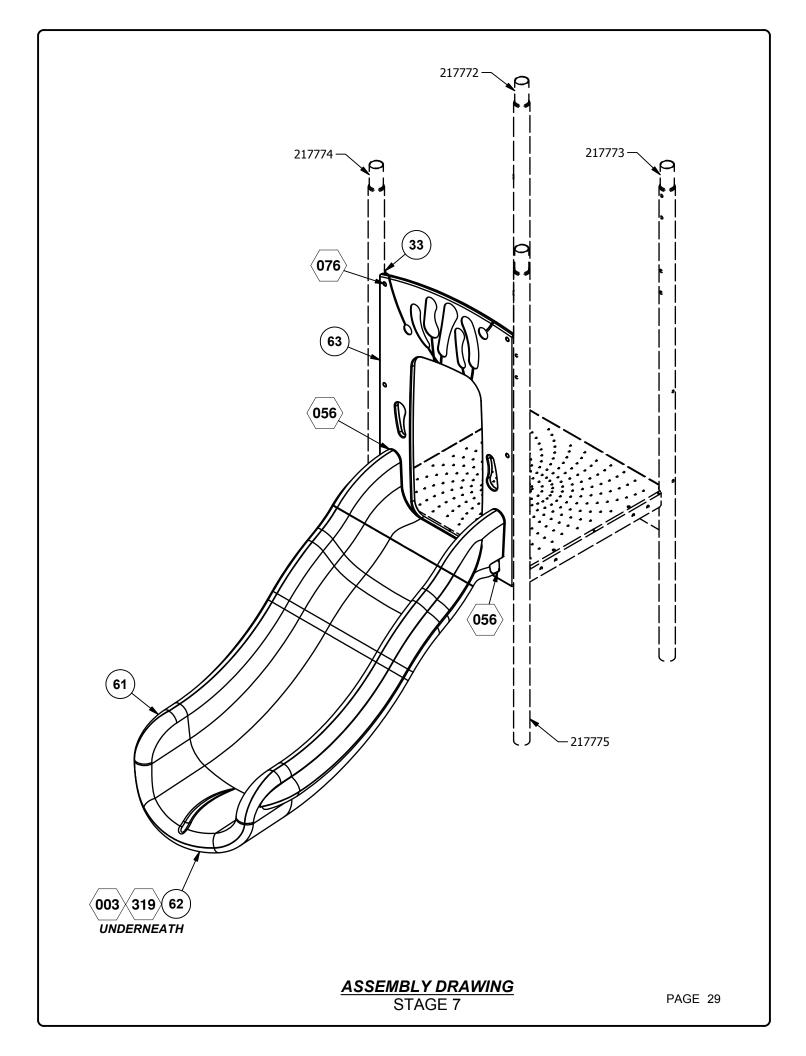
STEP 1: Attach Wrinkle Climber Entryway Weld Assemblies to Uprights using Detail 042; Attach Wrinkle Climber Entryway Weld Assemblies to Coated Echo Deck using Detail 051.

STEP 2: Attach Wrinkle Climber HDPE Entryways to Wrinkle Climber Entryway Weld Assemblies using Detail 050.

STEP 3: Attach Wrinkle Climber Weld Assembly to Coated Echo Deck using Detail 075.

STEP 4: Attach Formed Panel to Wrinkle Climber Weld Assembly using Detail 074.

STEP 5: Attach Wrinkle Climber HDPE 2, 3, 4, and 5 to Formed Panel using Detail 072. Attach Wrinkle Climber HDPE 1 to Formed Panel and Wrinkle Climber Weld Assembly using Detail 072 and 073.



Parts List				
REF	DESCRIPTION	QTY	PART NUMBER	
33	ТАВ	4	217582	
61	3' ZIP SLIDE	1	217952	
62	SLIDE FOOTBUCK WELD ASSEMBLY	1	218156	
63	AURA SLIDE HDPE BARRIER	1	217197	
	HARDWARE COMPLETE	1	218261	
	5/16" x 3/4" B.H.C.S.	4	811040*	
	5/16" FLAT WASHER (5/8" O.D.)	4	817406*	
	5/16" LOCK WASHER	4	817330*	
	NUT 5/16"- INSERT TYPE 1	4	HWN0149*	
	3/8" x 3/4" B.H.C.S.	4	811052*	
	3/8" x 1 1/4" B.H.C.S.	4	811051*	
	3/8" x 1 1/2" B.H.C.S.	2	811053*	
	3/8" x 2 1/2" B.H.C.S.	2	811057*	
	3/8" FLAT WASHER	10	817410*	
	3/8" FLAT WASHER (1 1/4" O.D.)	2	817424*	
	3/8" LOCK WASHER	12	817334*	

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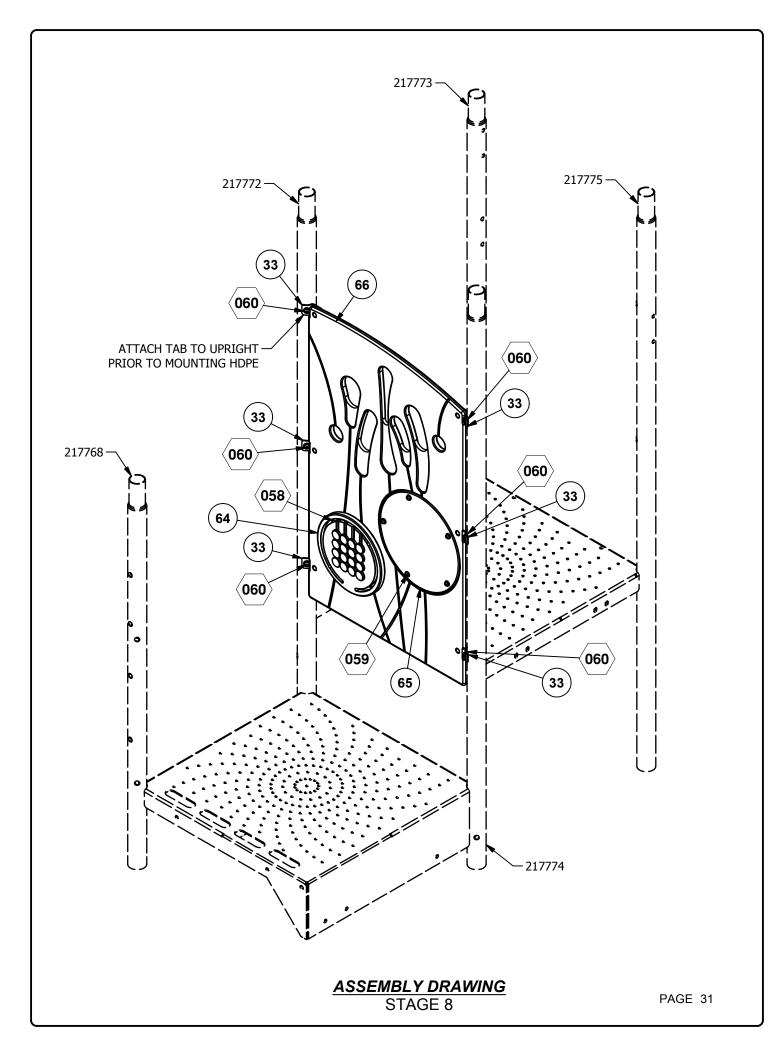
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS STAGE 7

STEP 1: Attach Tabs and Aura Slide HDPE Barrier to Uprights using Detail 076.

STEP 2: Attach Slide Footbuck Weld Assembly to Zip Slide using Detail 319.

STEP 3: Attach Zip Slide to Aura Slide HDPE Barrier and Coated Echo Deck using Detail 056.



Parts List				
REF	DESCRIPTION	QTY	PART NUMBER	
33	ТАВ	6	217582	
64	THREE IN A ROW	1	217278	
65	14" POLYCARBONATE YELLOW PANEL	1	212214	
66	AURA GIZMO HDPE PANEL	1	217198	
	HARDWARE COMPLETE	1	218195	
	5/16" x 3/4" B.H.C.S.	11	811040*	
	5/16" FLAT WASHER (5/8" O.D.)	11	817406*	
	5/16" LOCK WASHER	11	817330*	
	NUT 5/16"- INSERT TYPE 1	11	HWN0149*	
	3/8" x 1 1/4" B.H.C.S.	6	811051*	
	3/8" FLAT WASHER	6	817410*	
	3/8" LOCK WASHER	6	817334*	
	#10 X 3/4" PAN HEAD PHILLIPS SCREW	4	809605*	

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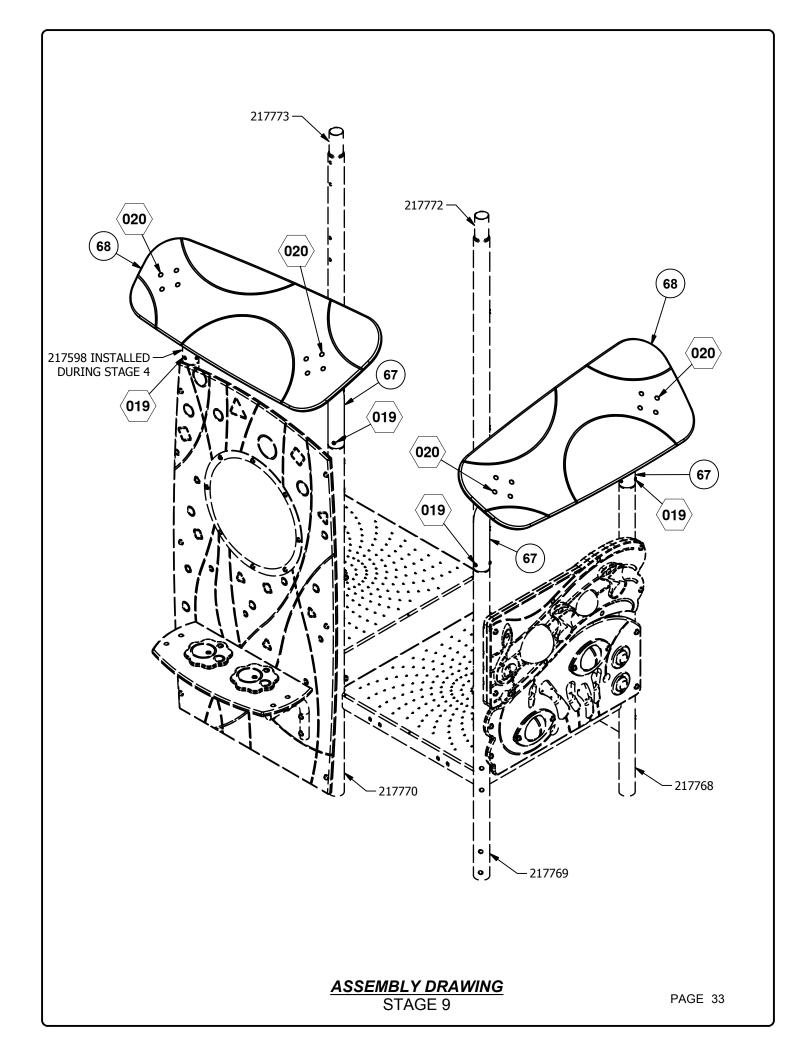
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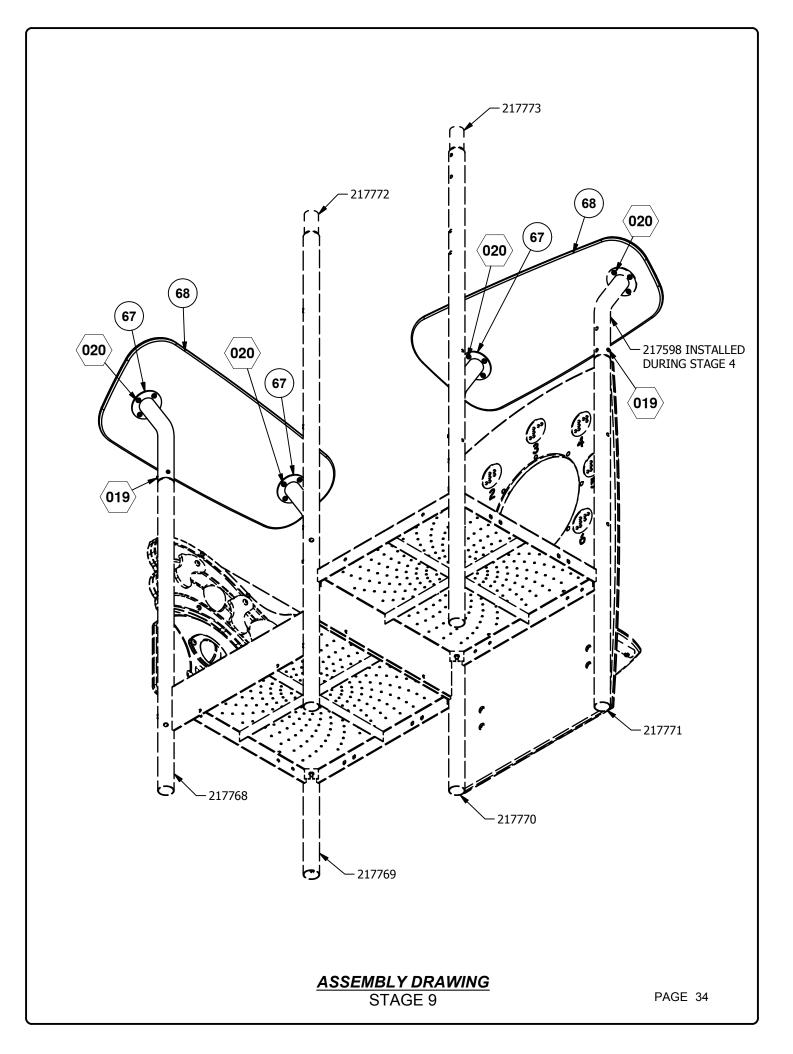
INSTALLATION INSTRUCTIONS STAGE 8

STEP 1: Attach Tabs and Aura Gizmo HDPE Panel to Uprights using Detail 060. **NOTE:** Attach Tabs to Uprights prior to mounting HDPE.

STEP 2: Attach Three In A Row to Aura Gizmo HDPE Panel using Detail 058.

STEP 3: Attach 14" Polycarbonate Yellow Panel to Aura Gizmo HDPE Panel using Detail 059.





Parts List				
REF	DESCRIPTION	QTY	PART NUMBER	
67	FORMED ROOF ATTACHMENT WELD ASSEMBLY 1	3	217599	
68	HDPE BUBBLE WING	2	217572	
	HARDWARE COMPLETE	1	218196	
	5/16" x 1" B.H.C.S.	16	811042*	
	5/16" FLAT WASHER (5/8" O.D.)	16	817406*	
	5/16" LOCK WASHER	16	817330*	
	NUT 5/16"- INSERT TYPE 1	16	HWN0149*	
	1/4-20 x 3/4" SS SELF DRILLING SCREW	11	810072*	

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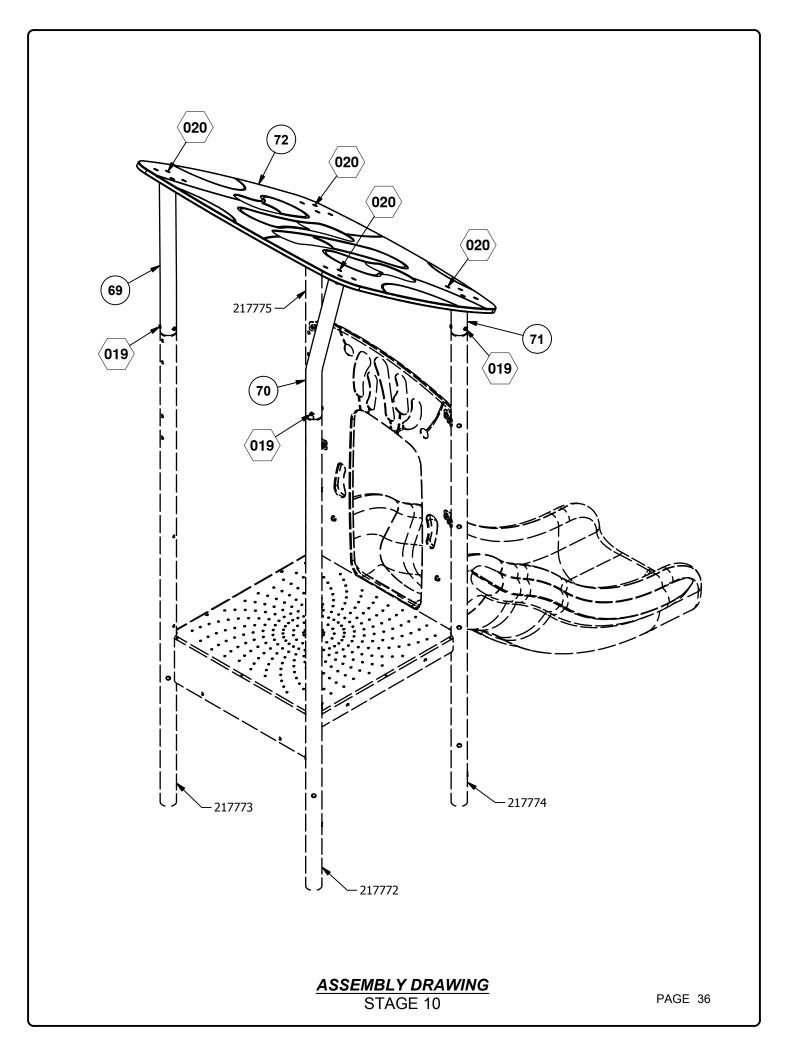
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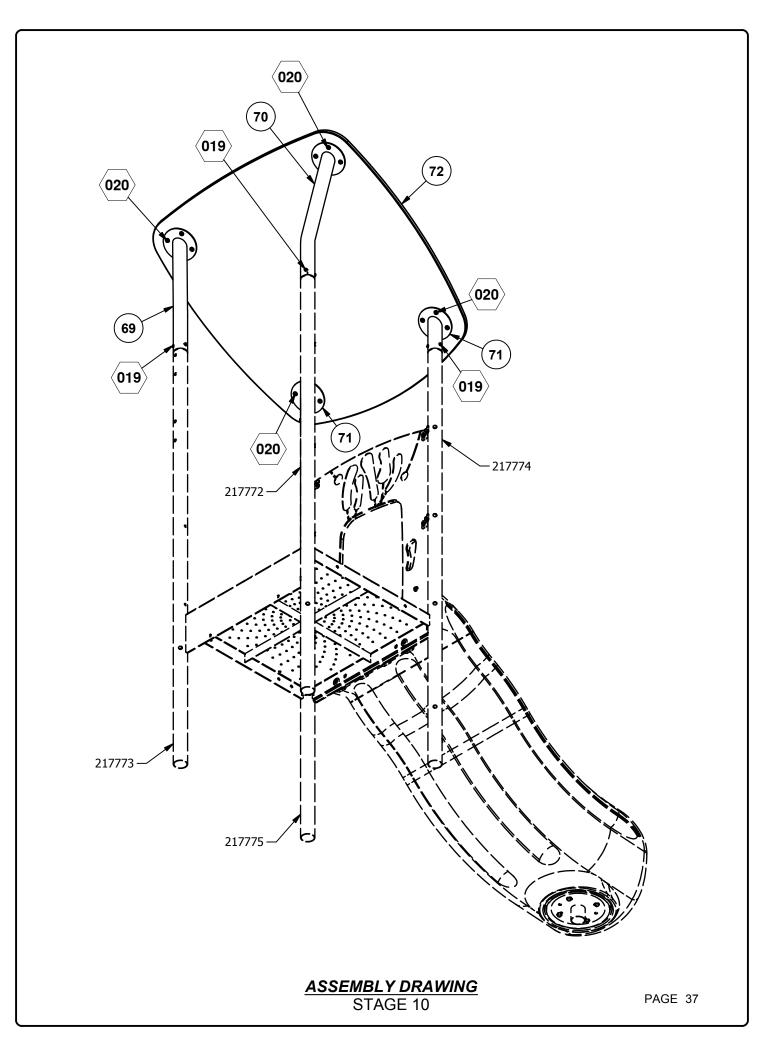
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS STAGE 9

STEP 1: Attach HDPE Bubble Wing to Formed Roof Attachment Weld Assemblies using Detail 020.

STEP 2: Attach Formed Roof Attachment Weld Assemblies to Uprights using Detail 019.





Parts List				
REF	DESCRIPTION	QTY	PART NUMBER	
69	FORMED ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY 1	1	218668	
70	FORMED ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY 2	1	218672	
71	ANGLE CUT ROOF ATTACHMENT WELD ASSEMBLY	2	217600	
72	HDPE ROOF	1	218723	
	HARDWARE COMPLETE	1	218197	
	5/16" x 1" B.H.C.S.	16	811042*	
	5/16" FLAT WASHER (5/8" O.D.)	16	817406*	
	5/16" LOCK WASHER	16	817330*	
	NUT 5/16"- INSERT TYPE 1	16	HWN0149*	
	1/4-20 x 3/4" SS SELF DRILLING SCREW	12	810072*	

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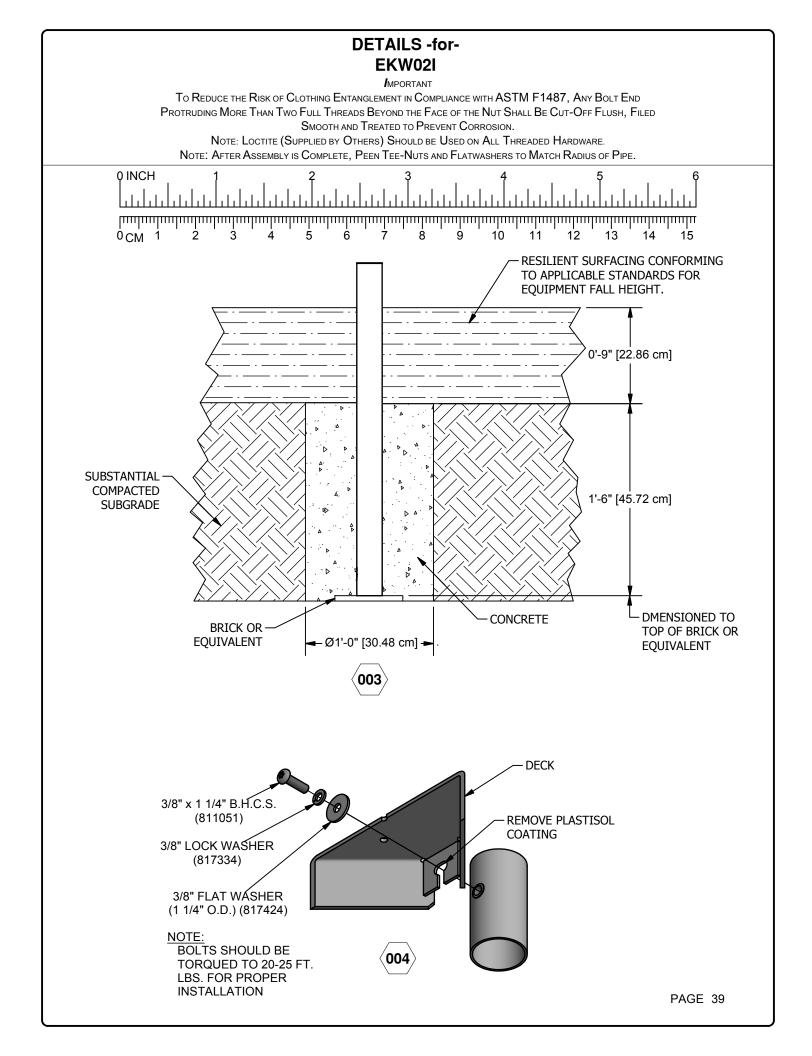
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

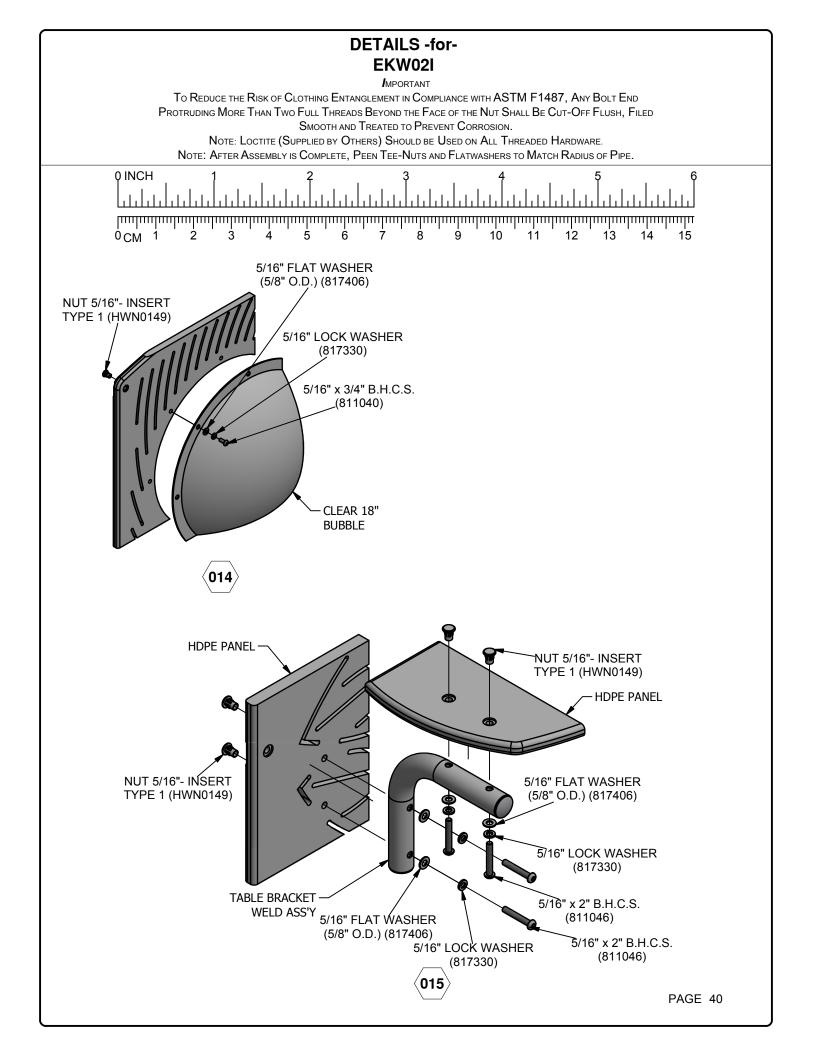
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

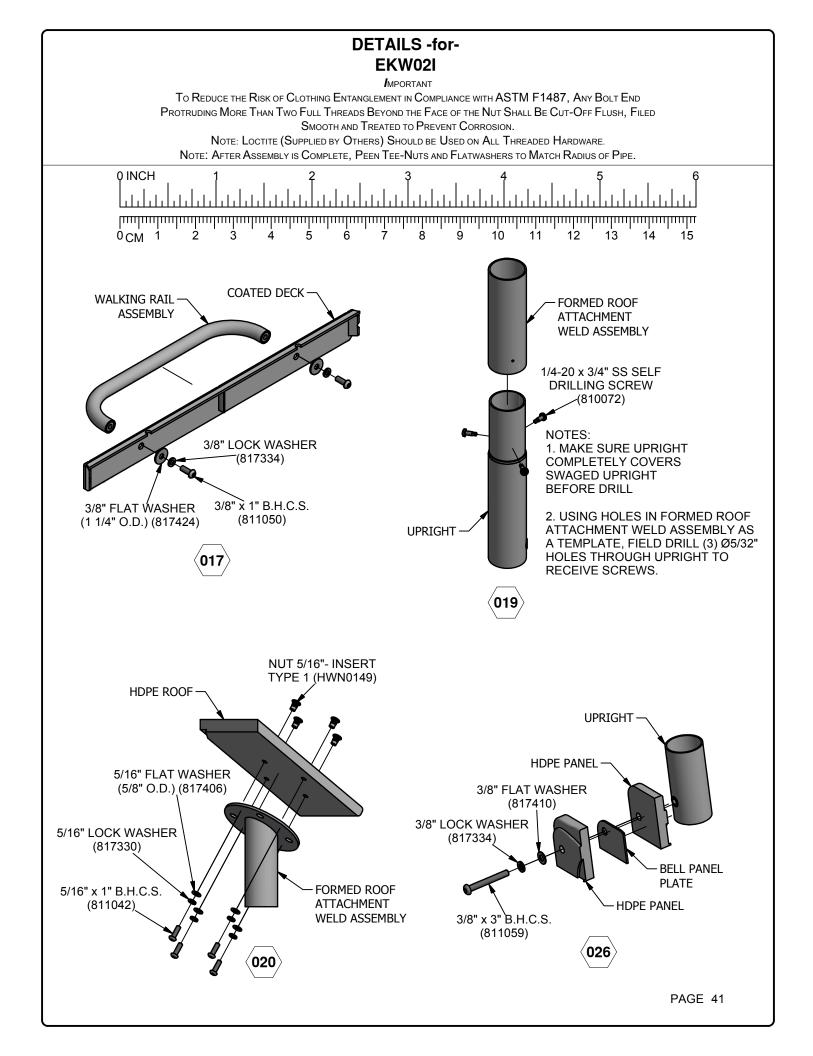
INSTALLATION INSTRUCTIONS STAGE 10

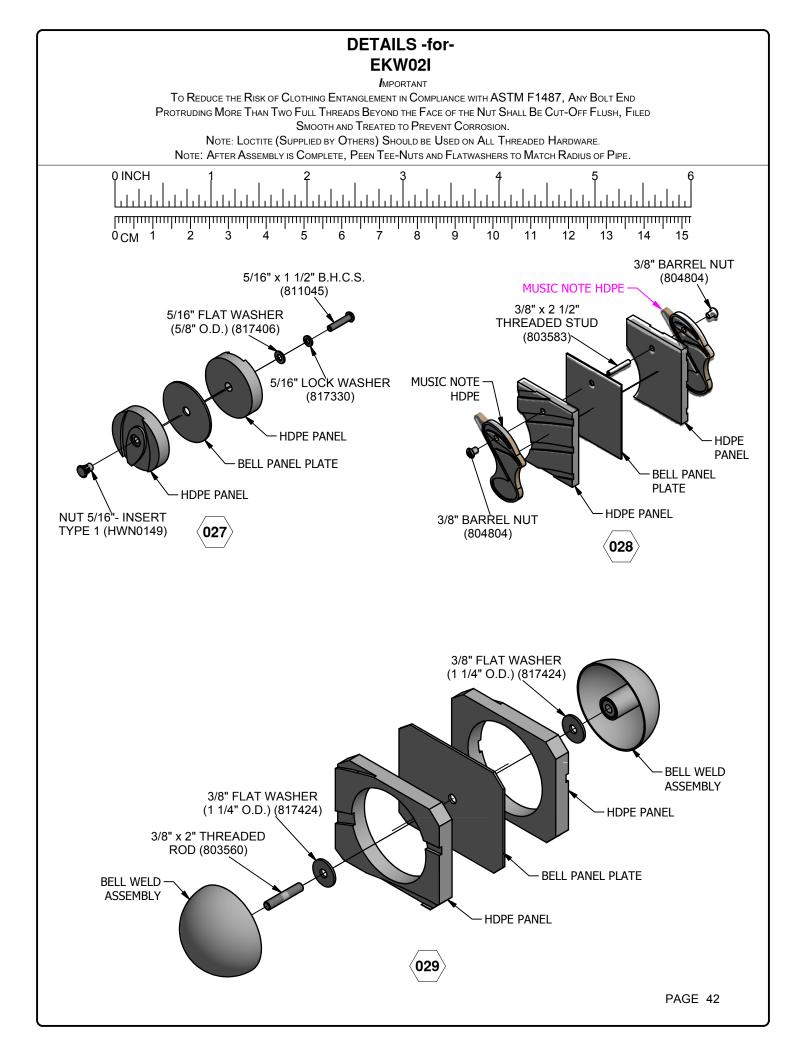
STEP 1: Attach HDPE Roof to Formed Angle Cut Roof Attachment Weld Assemblies and Angle Cut Roof Attachment Weld Assemblies using Detail 020.

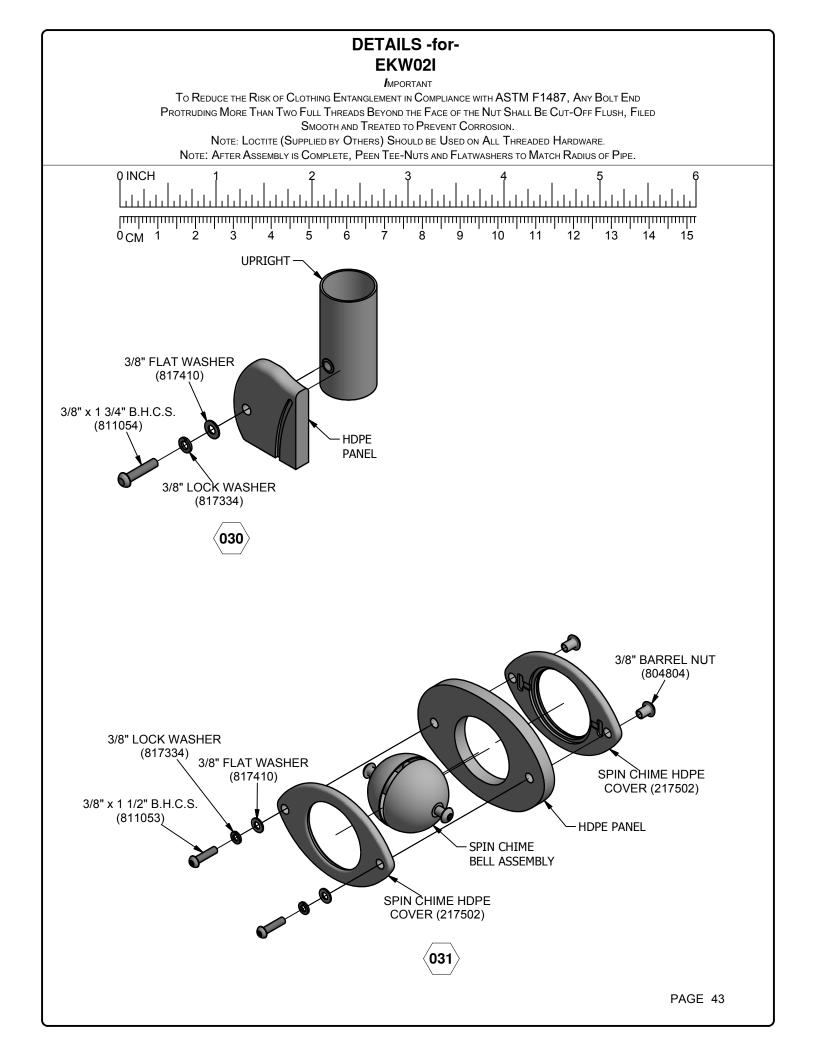
STEP 2: Attach Formed Angle Cut Roof Attachment Weld Assemblies to Uprights using Detail 019; Attach Angle Cut Roof Attachment Weld Assemblies to Uprights using Detail 019.

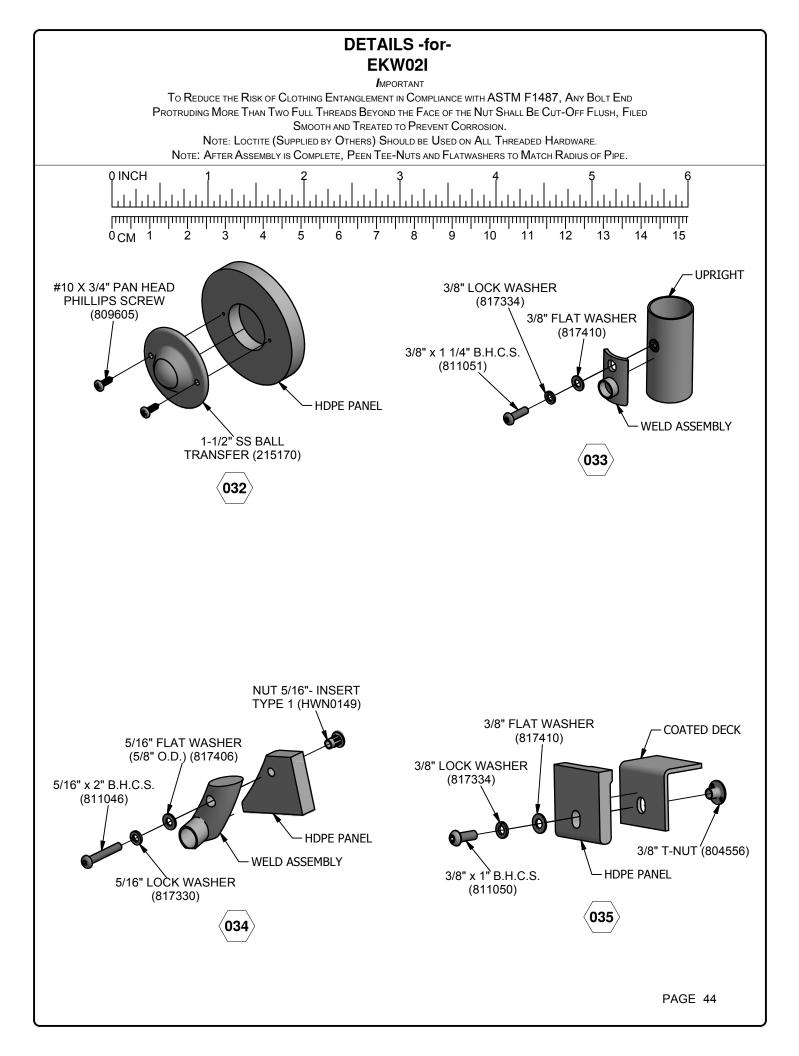


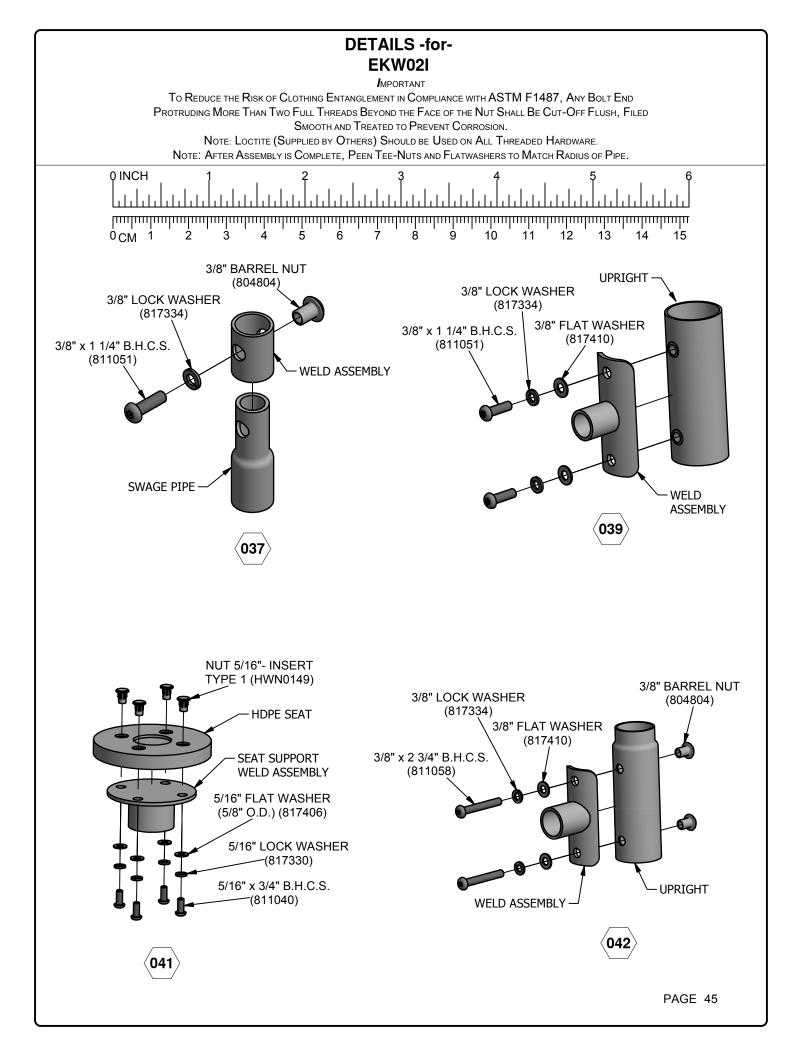


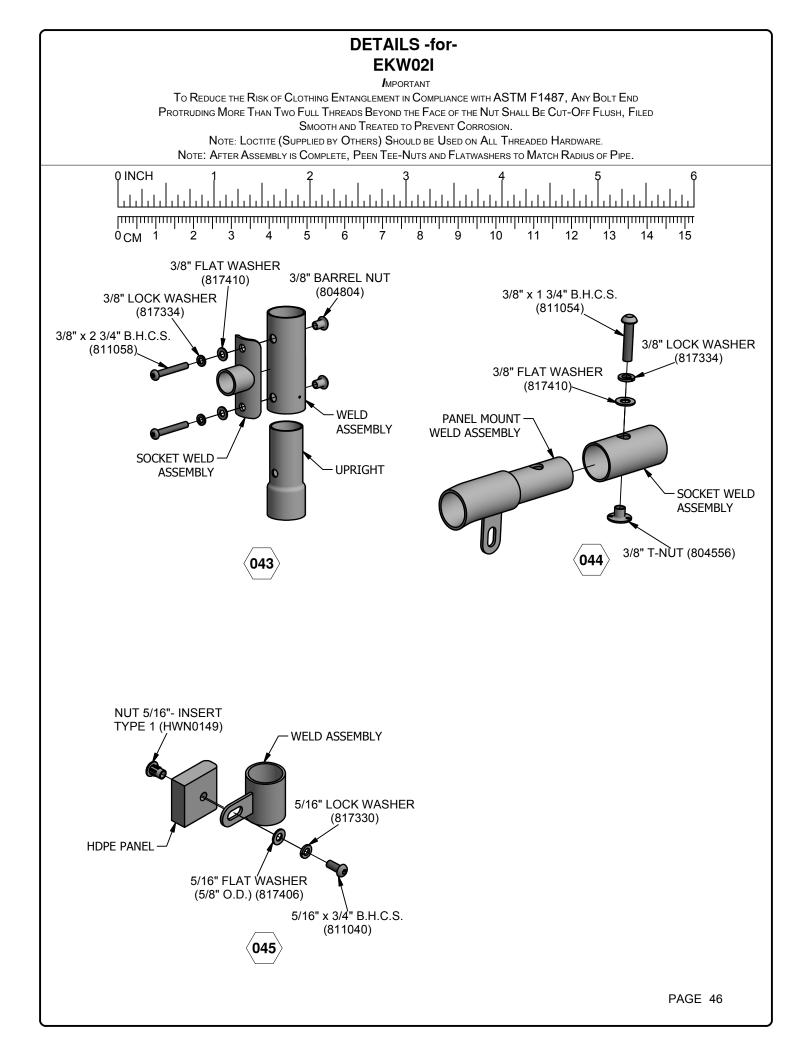


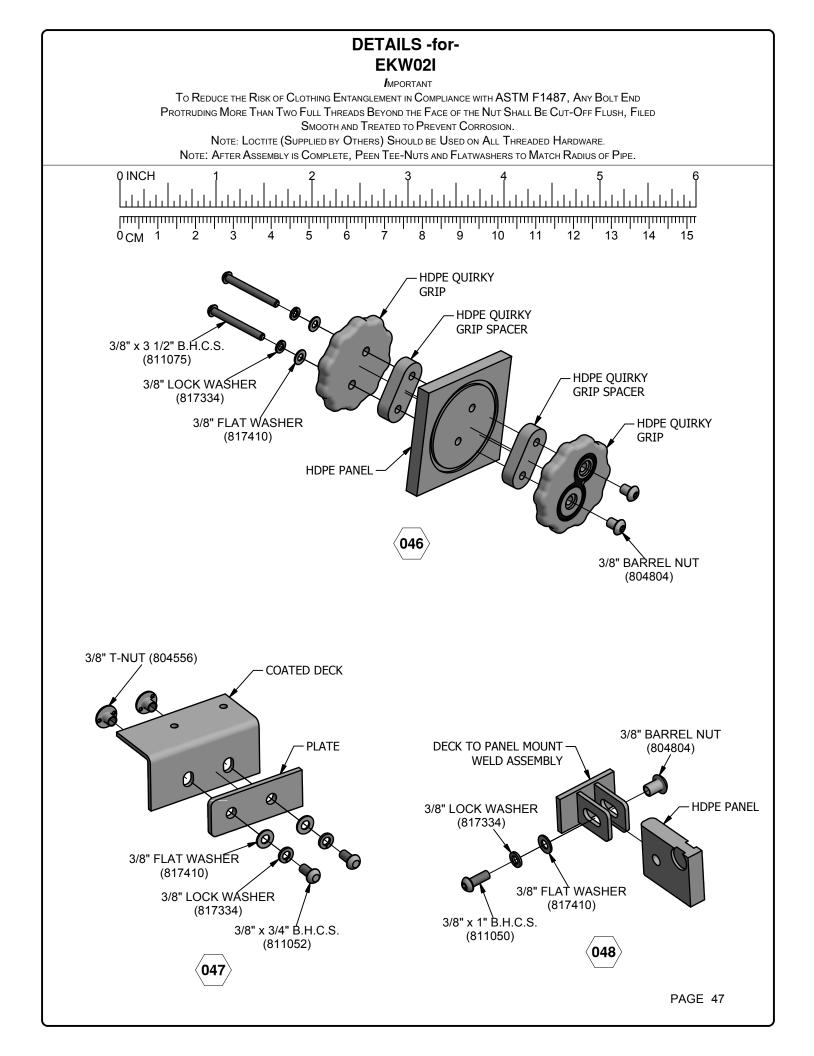


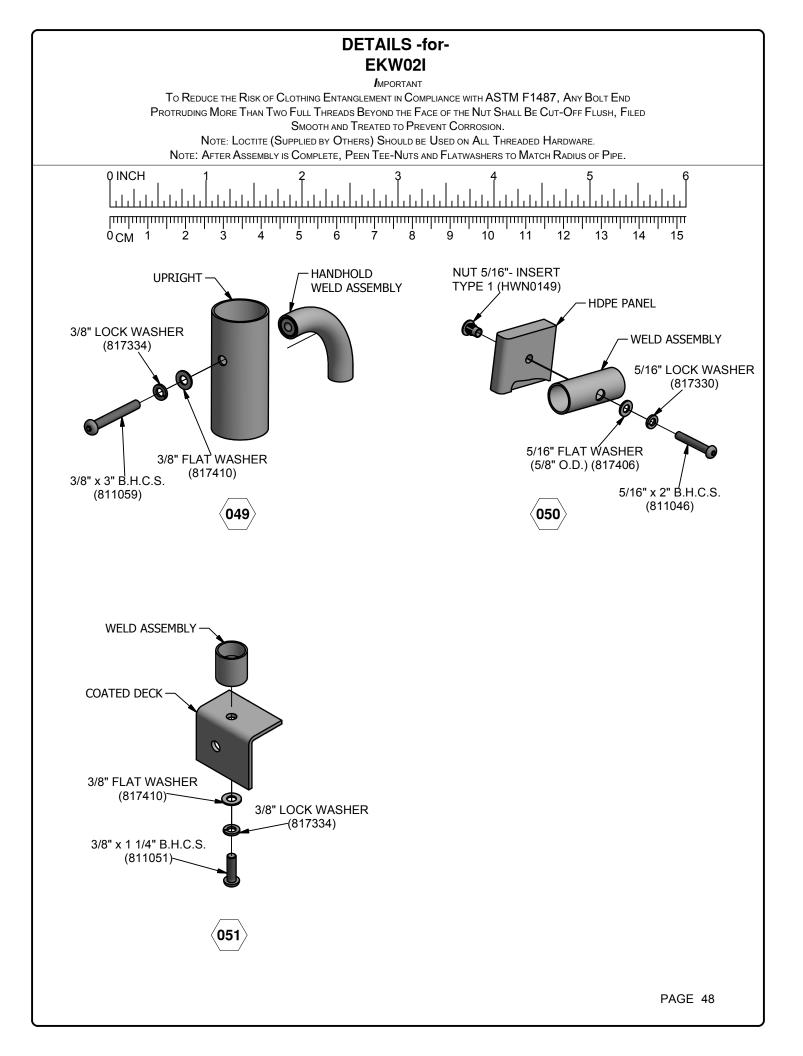


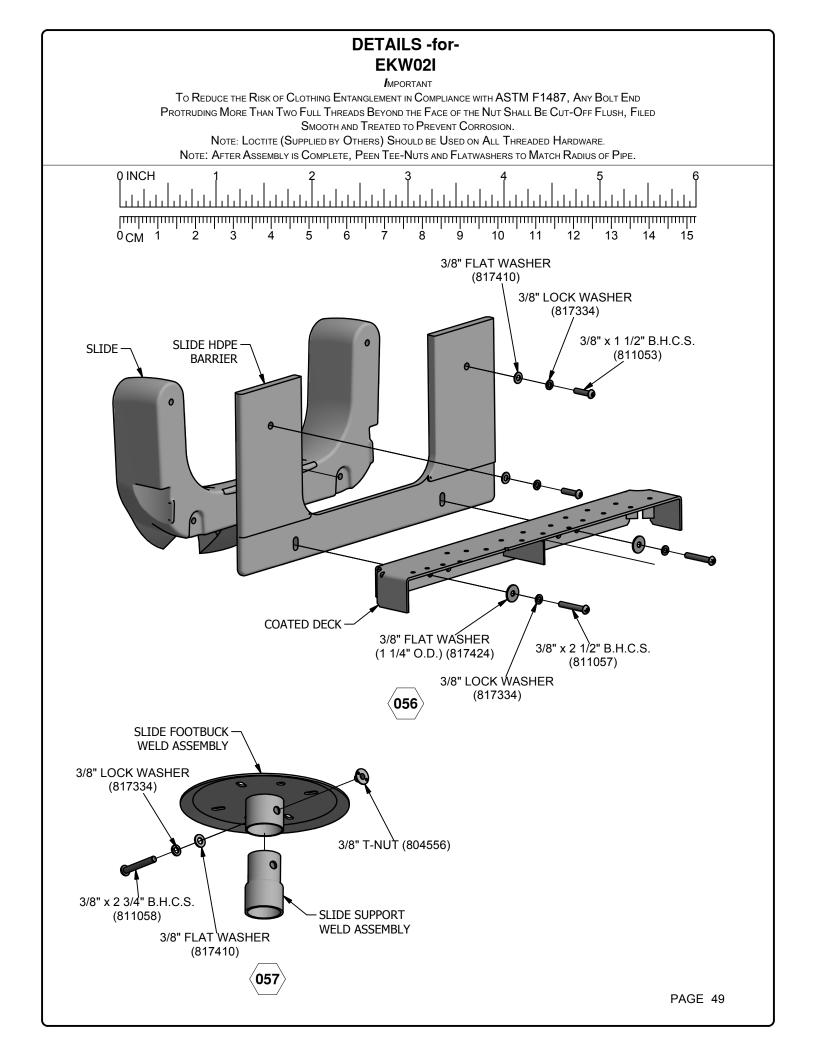


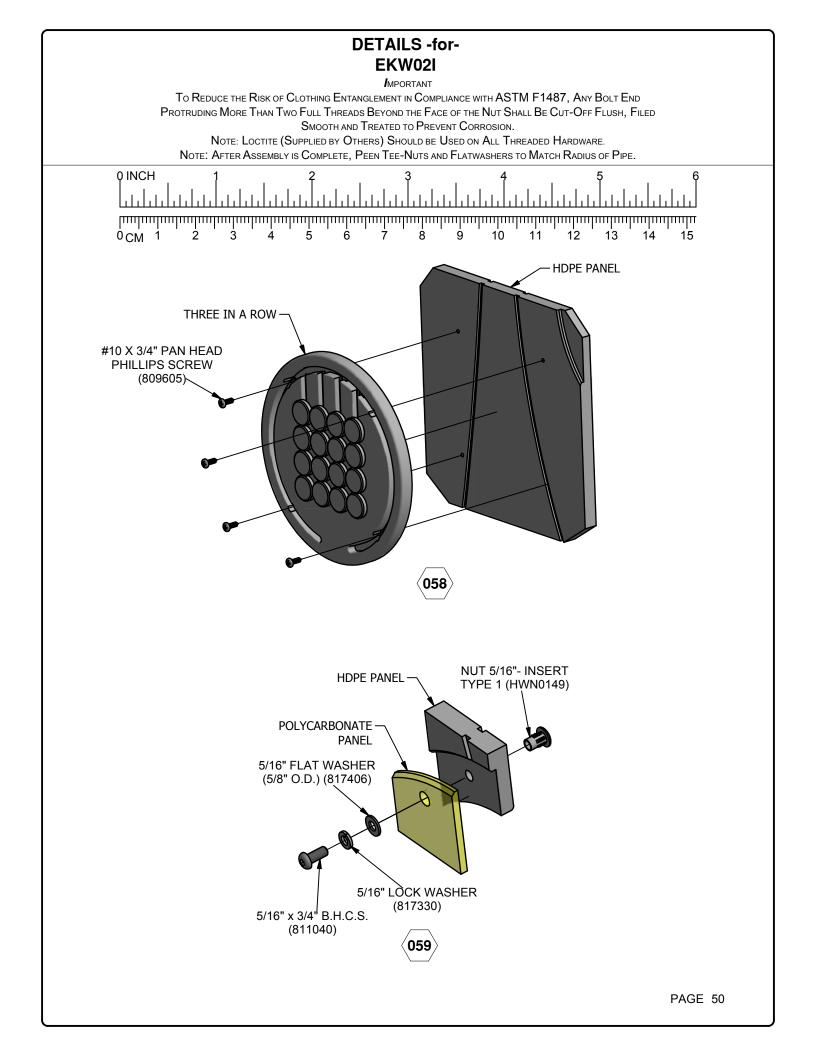


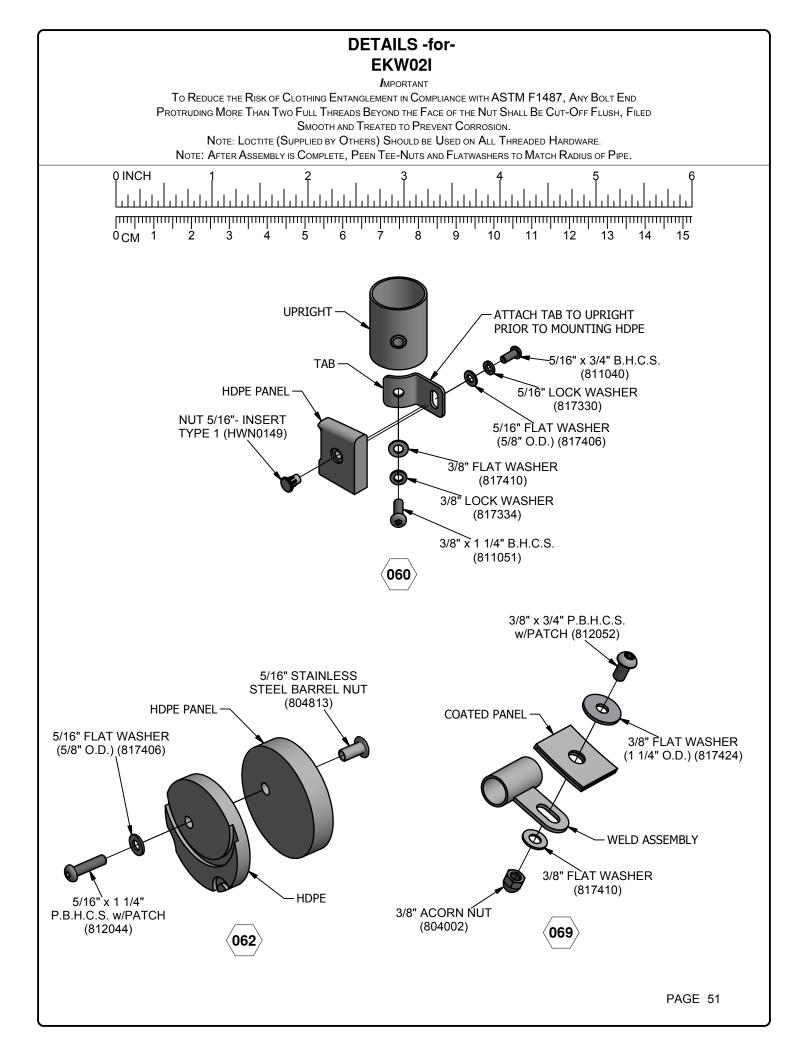


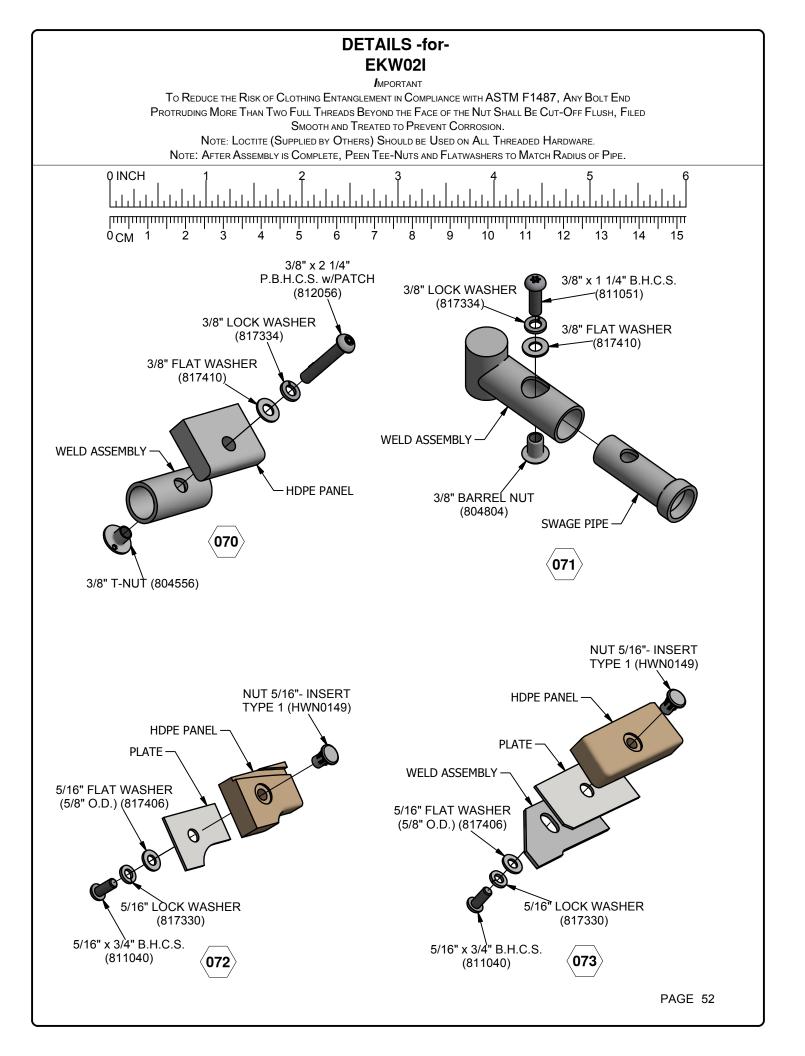


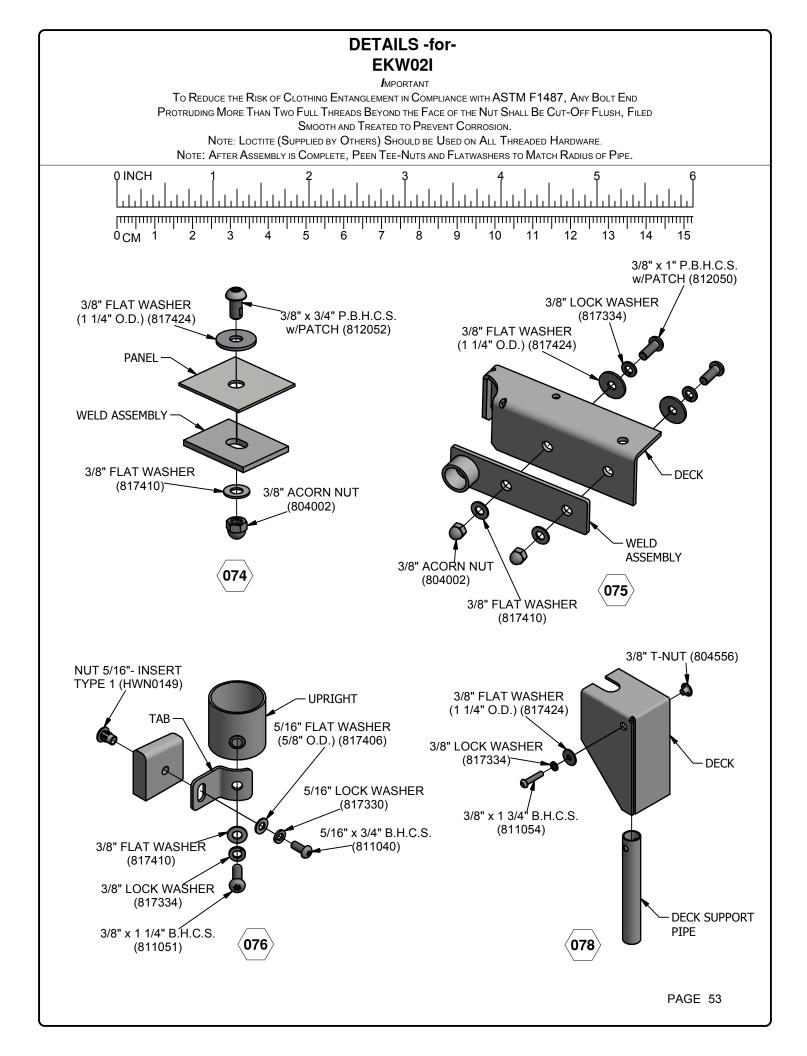


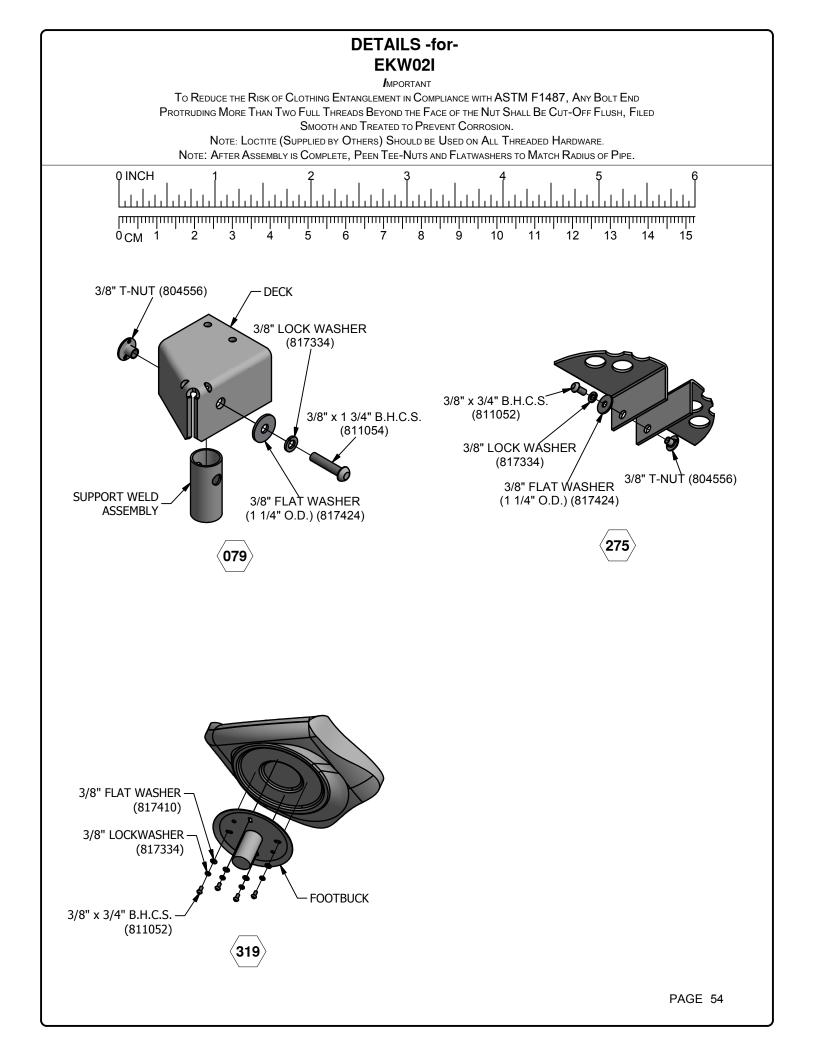








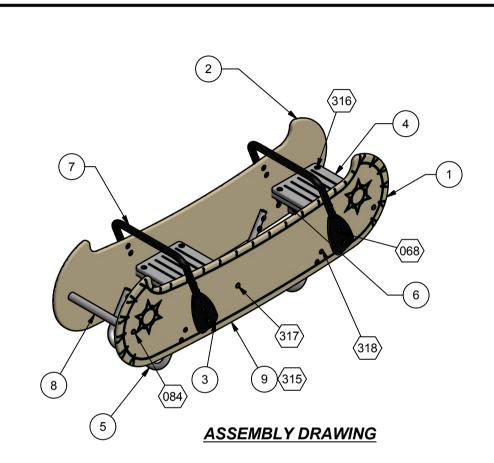






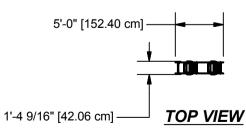
4181SP

CANOE SPRING RIDER



*OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F1292 <u>AND</u> ASTM F1487 (U.S.) <u>OR</u> CAN/CSA-Z614 (CANADA).

*THE ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE ARE DETERMINED BY EXTENDING THE PRODUCT OUTSIDE DIMENSIONS SHOWN A MINIMUM ADDITIONAL DISTANCE OF 6'-0" [1.8M] IN ALL DIRECTIONS. FOR CANADIAN INSTALLATIONS ONLY, AN ADDITIONAL 1.8M LONG (MINIMUM) NO-ENCROACHMENT ZONE IS REQUIRED BEYOND THE PROTECTIVE SURFACING ZONE.



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IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

Equipment should be placed to eliminate conflicting traffic patterns.

□ All protruding nuts and bolts should be covered; sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

□ Never add components not intended for use with this product.

□ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

□ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.

□ Check to be sure all fittings are tight and that the bars and pipes do not move.

□ A soft, resilient surface should be placed under all climbers, extending at least six feet in all directions surrounding the climbers. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

SPECIFICATIONS

PANELS: Shall be made from 3/4" thick (solid) high density, UV stabilized, laminated and color impregnated polyethylene. MOUNTING FRAME: Shall be an all welded structure

fabricated from 1-5/16" x 14 gauge (.083") wall galvanized steel tubing and 1/4" hot rolled flat steel and shall have a powder coat finish.

SUPPORT BAR: Shall be fabricated of 1-1/16" x 15 gauge (.075") wall galvanized steel tubing and shall have a powder coat finish.

SPRING: Shall be fabricated 3/4" diameter wire, of 5-1/2" O.D. x 13-1/2" long. Spring is fabricated especially for GAMETIME® Saddlemates. The spring shall have a powder coat black finish.

SPRING BASE PLATE: Shall be fabricated of 1/4" x 4" x 11"

long hot rolled flat steel and shall have a powder coat black finish.

SPRING MOUNT CASTING: Shall be high strength type 32510 malleable iron.

HARDWARE: All nuts, bolts, screws and lockwashers used in the assembly of all equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without

INSTALLATION INSTRUCTIONS

NOTE: THIS SPECIFICATION BOOKLET SHOULD BE KEPT IN CUSTOMERS FILE FOR FUTURE REFERENCE.

NOTE: Do not over tighten bolts. To over tighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of around holes.

NOTE: Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.

STEP 1: Dig required hole and fill with concrete. See footing on Installation Drawing for correct shape and size.

NOTE: After installation, the seat height should be between 1'-2" [35.56 cm] and 2'-4" [71.12 cm] above the protective surfacing.STEP 2: Put a 1/2" hex nut on each of the (4) anchor bolts, thread nuts onto bolts until 1" of thread extends

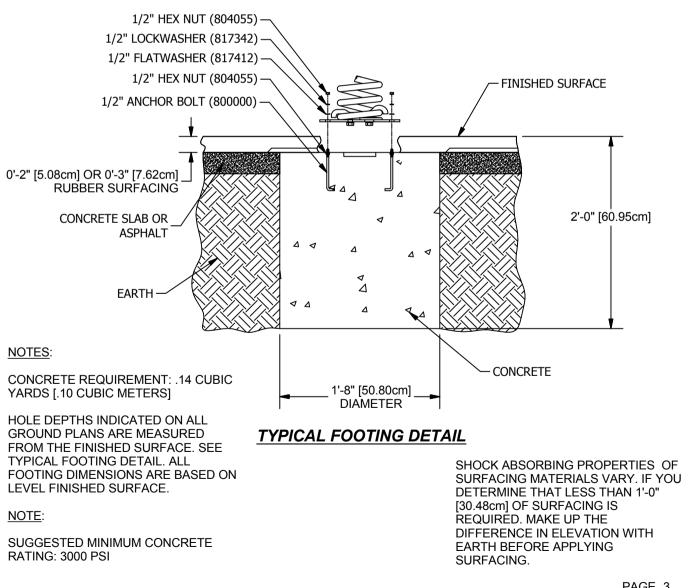
beyond nut. See Installation Drawings.

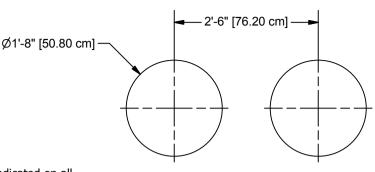
STEP 3: Fasten the coil spring to the spring base plate using Detail "A". Use loctite (supplied by others) and tighten bolts thoroughly. Fasten the (4) anchor bolts (from Step 2) to the spring base plate using (4) 1/2" lockwashers and (4) 1/2" hex nuts. Using the spring base plate as a template, place the four (4) anchor bolts in position while the concrete is still soft, yet firm enough to support the spring assembly. See Installation Drawings. Level the spring assembly and check periodically. DO NOT MOUNT THE SPRING RIDER TO THE SPRING ASSEMBLY FOR AT LEAST 72 HOURS

STEP 4: After concrete has set at least 72 hours, attach seat and mounting frame using "Detail 'B'.

STEP 5: Attach panels to mounting frame using Detail 'C'. STEP 6: Attach support bars using Detail "D" and Detail "E". NOTE: We suggest you retighten all bolts after the unit has been used three to four days.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.





NOTE: Hole depths indicated on all GROUND PLANS are measured from the FINISHED SURFACE. All footing dimensions are based on level FINISHED SURFACE

> Parts List REF. DESCRIPTION PART NUMBER QTY CANOE PANEL (LEFT) X19723 1 1 2 CANOE PANEL (RIGHT) 1 X19724 3 PADDLE APPLIQUE 4 X19725 2 4 SEAT X18578 5 FORMED PIPE WELD ASS'Y 2 X18177 6 MOUNTING FRAME 2 161354 FORMED RUNG ASS'Y 7 2 X19722 8 CROSS BRACE ASS'Y 1 X19719 **COIL SPRING** 2 100334 9 **BASE PLATE** 2 126776 4181HW HARDWARE COMPLETE 1 5/16" x 1 3/4" P.B.H.C.S. w/Patch 16 812047* 5/16" FLATWASHER (3/4" O.D.) 16 817404* 5/16" T-NUT 804555* 16 3/8" x 2 1/4" P.B.H.C.S. w/PATCH 4 812056* 3/8" x 2" P.B.H.C.S. w/PATCH 8 812055* 3/8" x 1 1/2" P.B.H.C.S. w/PATCH 10 812053* 3/8" FLAT WASHER 22 817410* 3/8" LOCKWASHER 4 817334* 12 3/8" T-NUT 804556* 1/2" x 1 1/4" HEX HEAD BOLT (FINE THREAD) 801254* 8 1/2" FLAT WASHER 6 817412* 1/2" LOCKWASHER 8 817342* SPRING MOUNT CASTING 4 1089*

GROUND VIEW

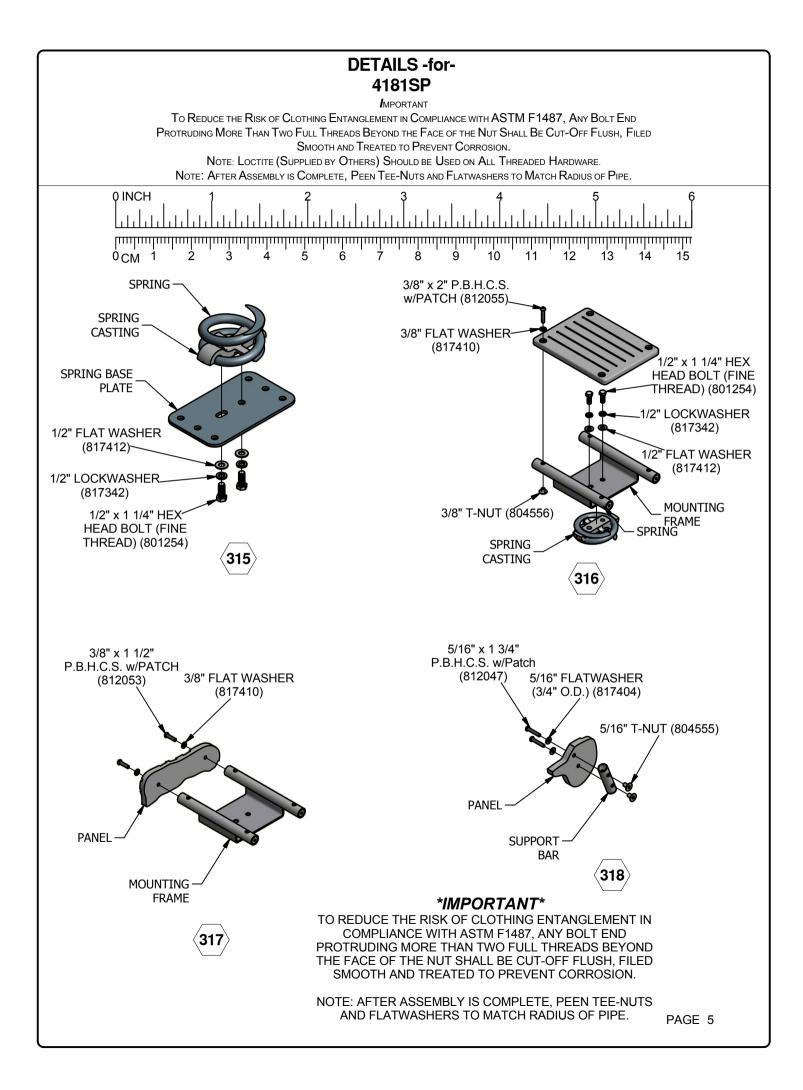
Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

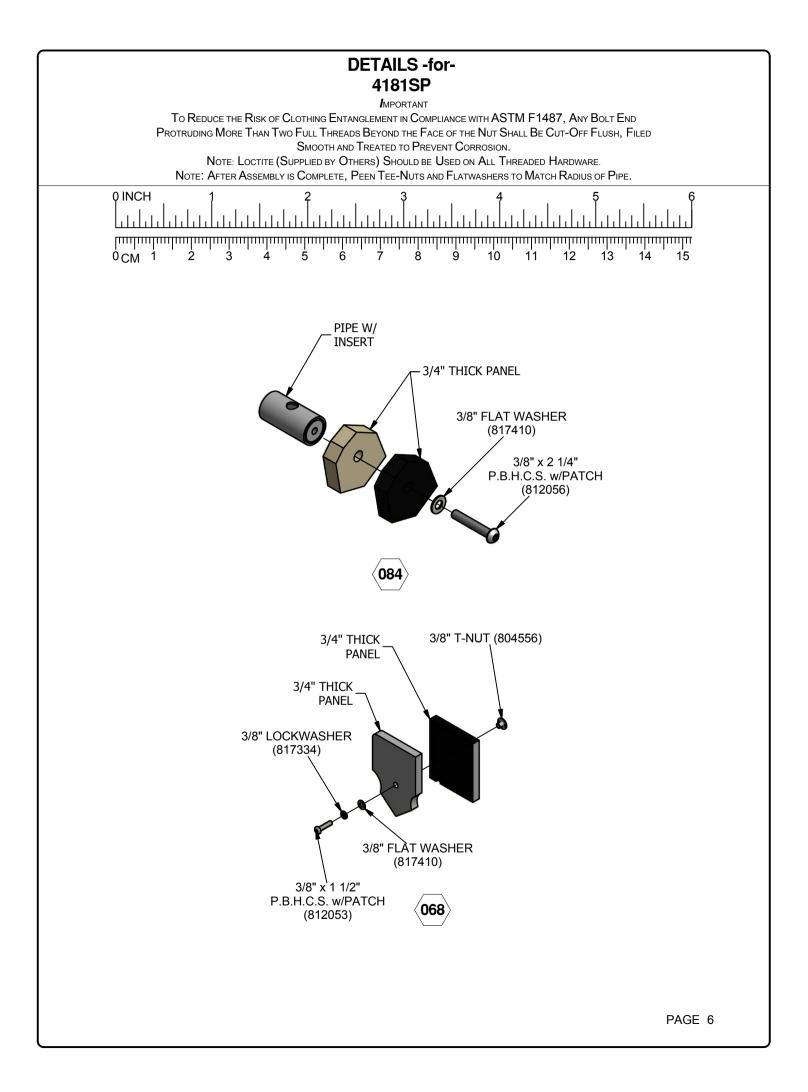
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

CONCRETE REQUIRED

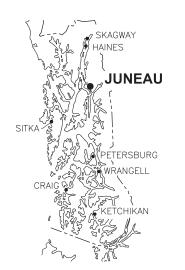
[.23 CUBIC METERS]



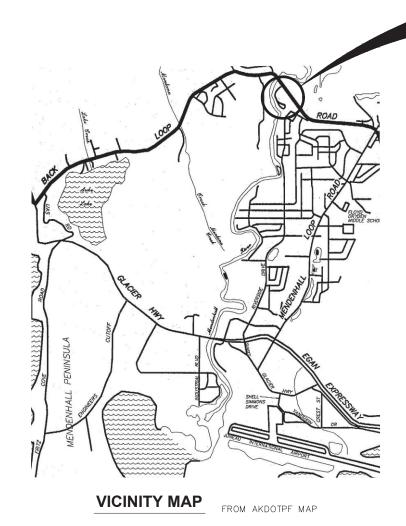


CITY & BOROUGH OF JUNEAU, ALASKA MENDENHALL RIVER COMMUNITY SCHOOL SITE AND PLAYGROUND UPGRADES CBJ CONTRACT NO. BE21-240 THIS





SOUTHEAST ALASKA



١ſ	DWG. NO.	
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	G001	TITLE
	G002	LEGE
	C100	OVE
	C101	DEM
	C102	GRA
	C103	GRA
	C104	GRA
	C105	SITE
	C200	SITE
	C201	SITE
	C202	POU
C		

PROJECT

	REVISIONS					1 1	9360 Glacier Highway Ste 100
V. DATE	DESCRIPTION	DWN.	CKD.	APP.		P N D	Juneau, Alaska 99801 Phone: 907-586-2093
						ENGINEERS, INC.	Fax: 907-586-2099 www.pndengineers.com
					DESIGN:		SCALE: AS SHOWN
					DRAWN:	WRB APPROVED: CMG	

DRAWING INDEX
TITLE
GENERAL
SHEET, VICINITY MAP AND DRAWING INDEX
ND, ABBREVIATIONS AND GENERAL NOTES
CIVIL
ALL SITE PLAN WITH SURVEY CONTROL
LITION PLAN
ING AND DRAINAGE PLAYGROUND PLAN
ING AND DRAINAGE ENLARGEMENT PLAN
ING AND DRAINAGE PLAYGROUND PLAN
SECTIONS
DETAILS
DETAILS
ED-IN-PLACE DETAILS



ABBREVIATIONS

A	
0	AT
<pt< td=""><td>ANGLE POINT</td></pt<>	ANGLE POINT
~	APPROXIMATE
ACP	ASPHALT CONCRETE PAVEMENT
ADD	ADDITIVE
ADD	
AKDOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
ALT	ALTERNATE
APPROX.	APPROXIMATE
ATS	ALASKA TIDELANDS SURVEY
в	
BC	BASE COURSE
BLDG	BUILDING
BTM, BOT	BOTTOM
BW	BACK OF SIDEWALK
C	
C&G	CURB & GUTTER
CB	CATCH BASIN
CBJ	CITY AND BOROUGH OF JUNEAU
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
Ę	CENTER LINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
COR	CORNER
CPP	CORRUGATED POLYETHYLENE PIPE
	FACE OF CURB
CURB	
CY	CUBIC YARD
D	
D/DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DTL	DETAIL
E	
E	EAST
EA.	EACH
EG	EXISTING GROUND
EJ	EXPANSION JOINT
EL/ELEV	ELEVATION
EQ	EQUAL
EXIST/(E)	
F	EXISTING
FC	FACE OF CURB
FG	FINISH GRADE
FH	FIRE HYDRANT, FLAT HEAD
FT	FOOT
FL	FLOWLINE
G	
GB	GRADE BREAK
GR	GRATE
GTD	GRADE TO DRAIN

HD HDG HDPE HORIZ	HUB & TACK HEAVY DUTY HOT-DIPPED GALVANIZED HIGH DENSITY POLYETHYLENE HORIZONTAL HEIGHT
IAW ID IE IN	IN ACCORDANCE WITH IDENTIFIER INVERT ELEVATION INCH INVERT
JB	JUNCTION BOX
LF LL LOC LS	POUNDS LINEAR FEET LIVE LOAD LOCATION LUMP SUM
ME MFR MH	MAXIMUM MATCH EXISTING MANUFACTURE (R) MANHOLE MINIMUM
N NFS #, NO	NORTH NON FROST SUSCEPTIBLE NUMBER NOT TO SCALE
OC	ON CENTER OVERHEAD ELECTRICAL OIL-WATER SEPARATOR
PC	PIPE POINT OF CURVATURE, PIECE PRECAST CONCRETE PEDESTAL
PI PIP PL	POINT OF INTERSECTION POURED IN PLACE SURFACE PROPERTY LINE
PSI PT	POUND PER SQUARE INCH POINT, PRESSURE TREATED, POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE POLY VINYL CHLORIDE
Q QTY	QUANTITY

REV. DATE

TD TRENCH DRAIN TEL TELEPHONE TYP TYPICAL U UON UNLESS OTHERWISE NOTED V VB VALVE BOX W W W WEST w/ WITH WL WATERLINE WV WATER VALVE w/o WITHOUT

EXISTING THIS PROJECT Τ V Ε — FU_A — — FO ¥ — — — E A — Eux — - OHE_X ------W v - SS_v - ROW ----Cu - SD y -- FM. -— FDx — ____ _ _ _ _ \leftarrow

LEGEND

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C XQ,

SSMH

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1.02

DWN. CKD. APP.

REVISIONS

DESCRIPTION

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EMH

ELECTRICAL HANDHOLE

FIRE HYDRANT

SANITARY SEWER MANHOLE

LIGHT POLE

STORM DRAIN MANHOLE

TELEPHONE PEDESTAL

TELEVISION PEDESTAL

ELECTRICAL PEDESTAL

FUEL LINE (ABANDONED)

ELECTRICAL (ABANDONED)

ELECTRICAL (OVERHEAD)

SANITARY SEWER

RIGHT-OF-WAY

STORM DRAIN

FORCE MAIN

GUARDRAIL

BOLLARD

PROPERTY LINE

GUY WIRE ANCHOR

CURB & GUTTER

ELECTRICAL VAULT

ELECTRICAL (UNDERGROUND)

COMMUNICATION (CABLE/TEL)

FOUNDATION DRAIN PIPE

FENCE

WATER

FUEL LINE

STORM DRAIN INLET

WATER VALVE

SIGN

UTILITY POLE

LAYOUT POINT

RADIUS, IN FEET

N

ENGINEERS, INC.

 \mathbf{D}

CHECKED: SCS

APPROVED: <u>CMG</u>

SCALE

SECTION OR DETAIL CALLOUT

(5)-

25

- LOCATION OF DETAIL OR REFERENCE DRAWING

P

design: WRB

DRAWN: _WRB

GENERAL NOTES

CONDITION OR BETTER AT NO ADDITIONAL COST. CBJ ENGINEERING STANDARD DETAILS BOOK DATED AUGUST, 2011 IS MADE A PART OF THIS 2. CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE. STANDARD DETAILS SHALL ONLY BE UTILIZED AS SPECIFICALLY REFERENCED IN THE DRAWINGS WITH MODIFICATIONS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE, LOCAL, STATE AND FEDERAL CODES, PERMITS AND SAFETY REQUIREMENTS. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. 4 ADDITIONAL UTILITIES NOT SHOWN IN THESE DRAWINGS MAY BE PRESENT. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AS NECESSARY, PRIOR TO BEGINNING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS. CONTACT LOCAL UTILITY COMPANIES PRIOR TO ANY/ ALL EXCAVATIONS AT THE FOLLOWING TELEPHONE NUMBERS:

5. GRADING IS SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS, AT NO ADDITIONAL COST. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED BOROUGH DEPARTMENTS AND LOCAL UTILITY 6 COMPANIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT DISRUPT UTILITY SERVICES EXCEPT AS REQUIRED TO COMPLETE THE RECONFIGURATION OF THOSE SERVICES AS SHOWN IN THE PLANS. COORDINATE ANY DISRUPTIONS

WITH OWNER A MINIMUM OF 48 HOURS IN ADVANCE.

9360 Glacier Highway Ste 100

Juneau, Alaska 99801

Phone: 907-586-2093

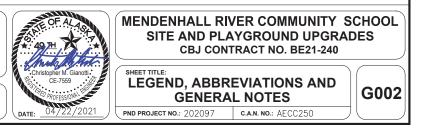
www.pndengineers.com

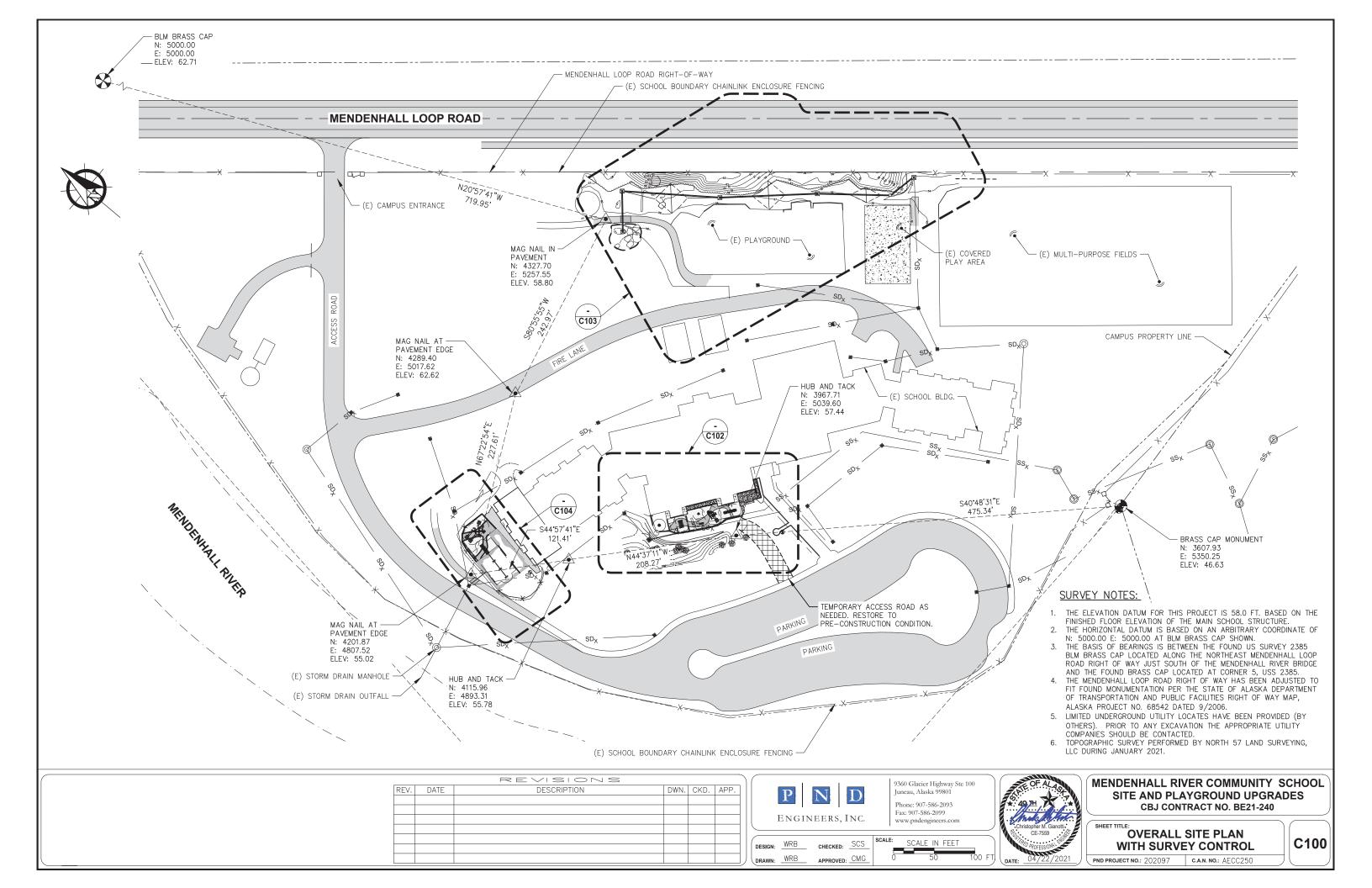
AS SHOWN

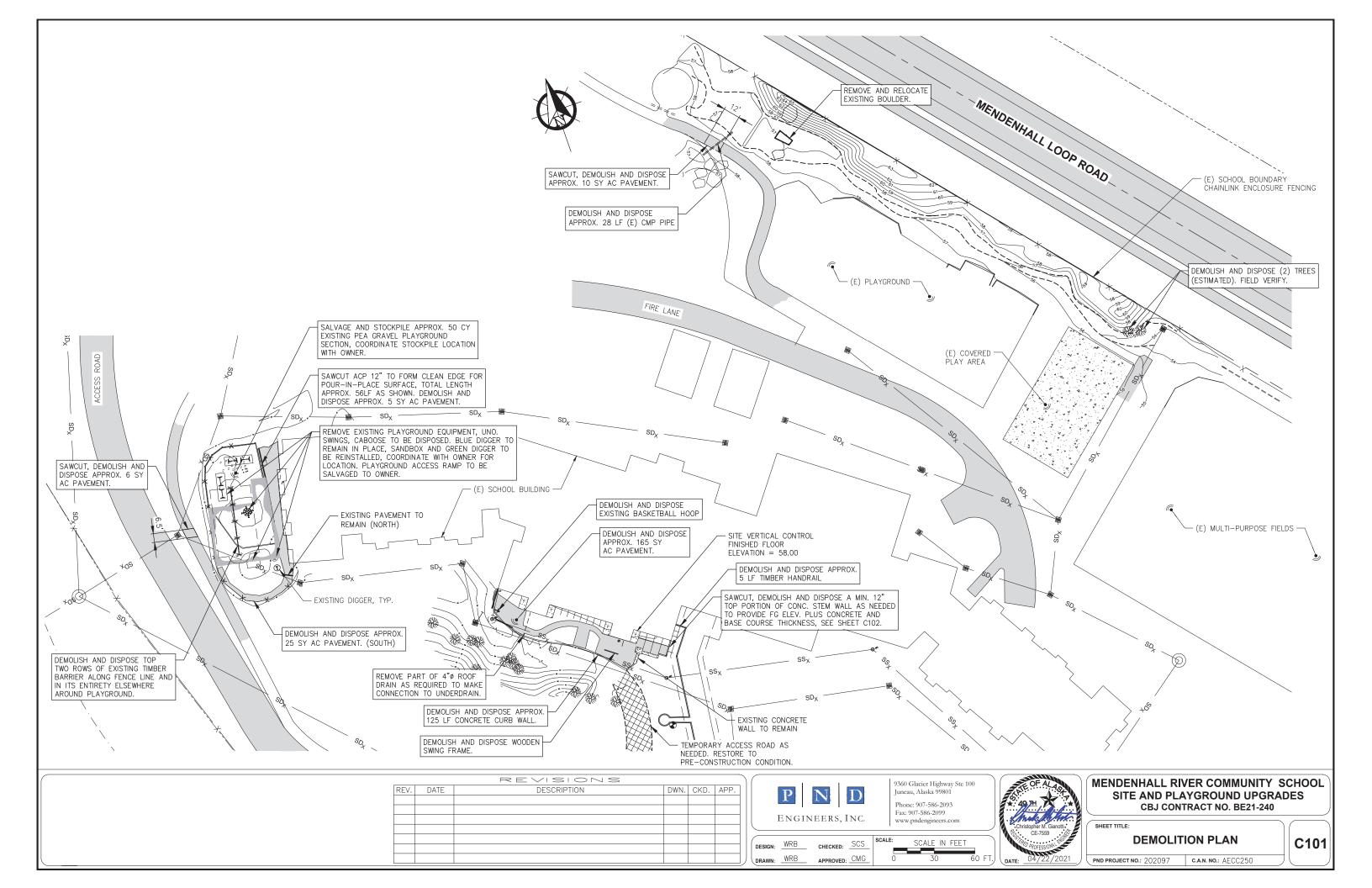
Fax: 907-586-2099

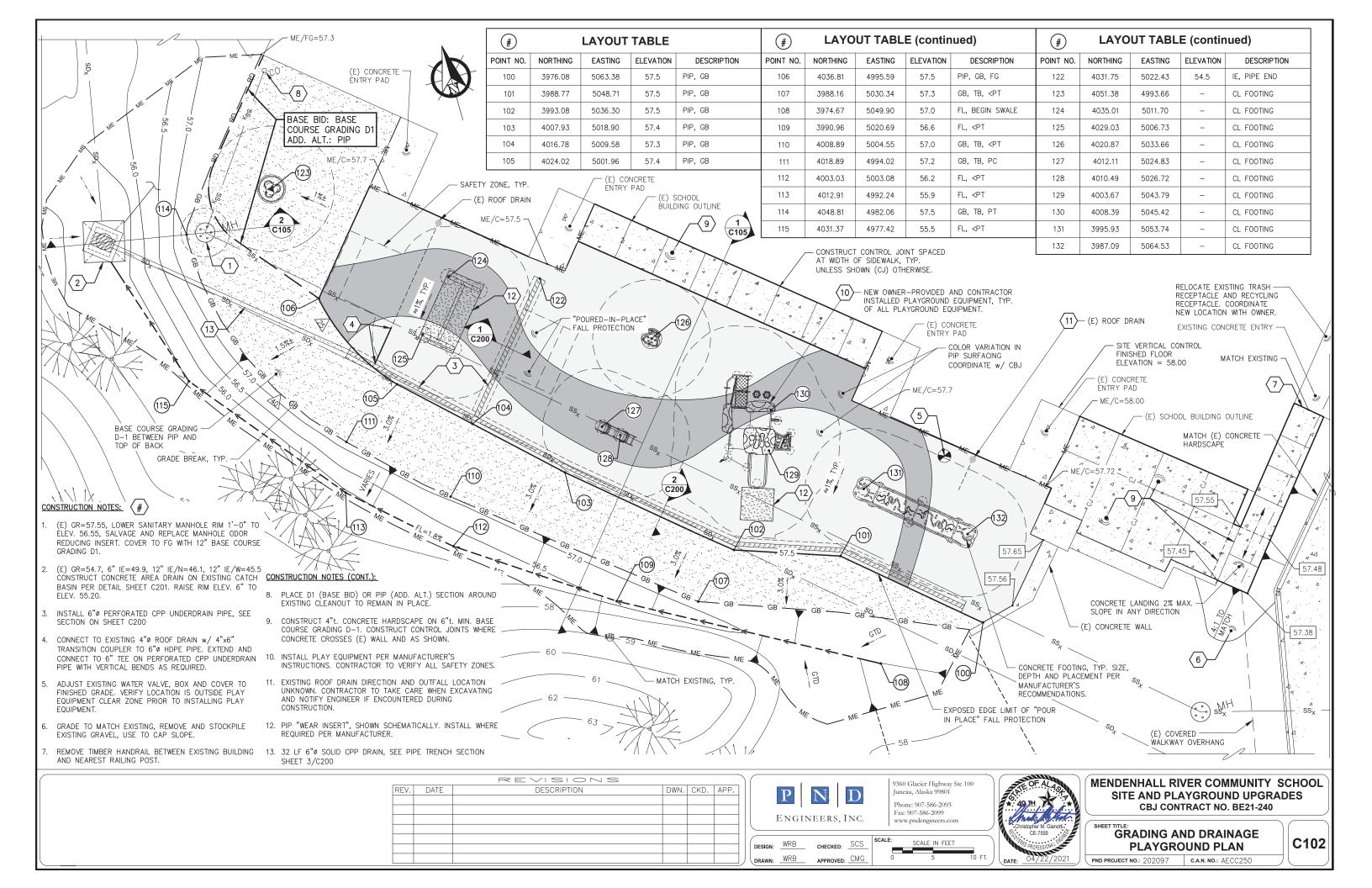
PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION

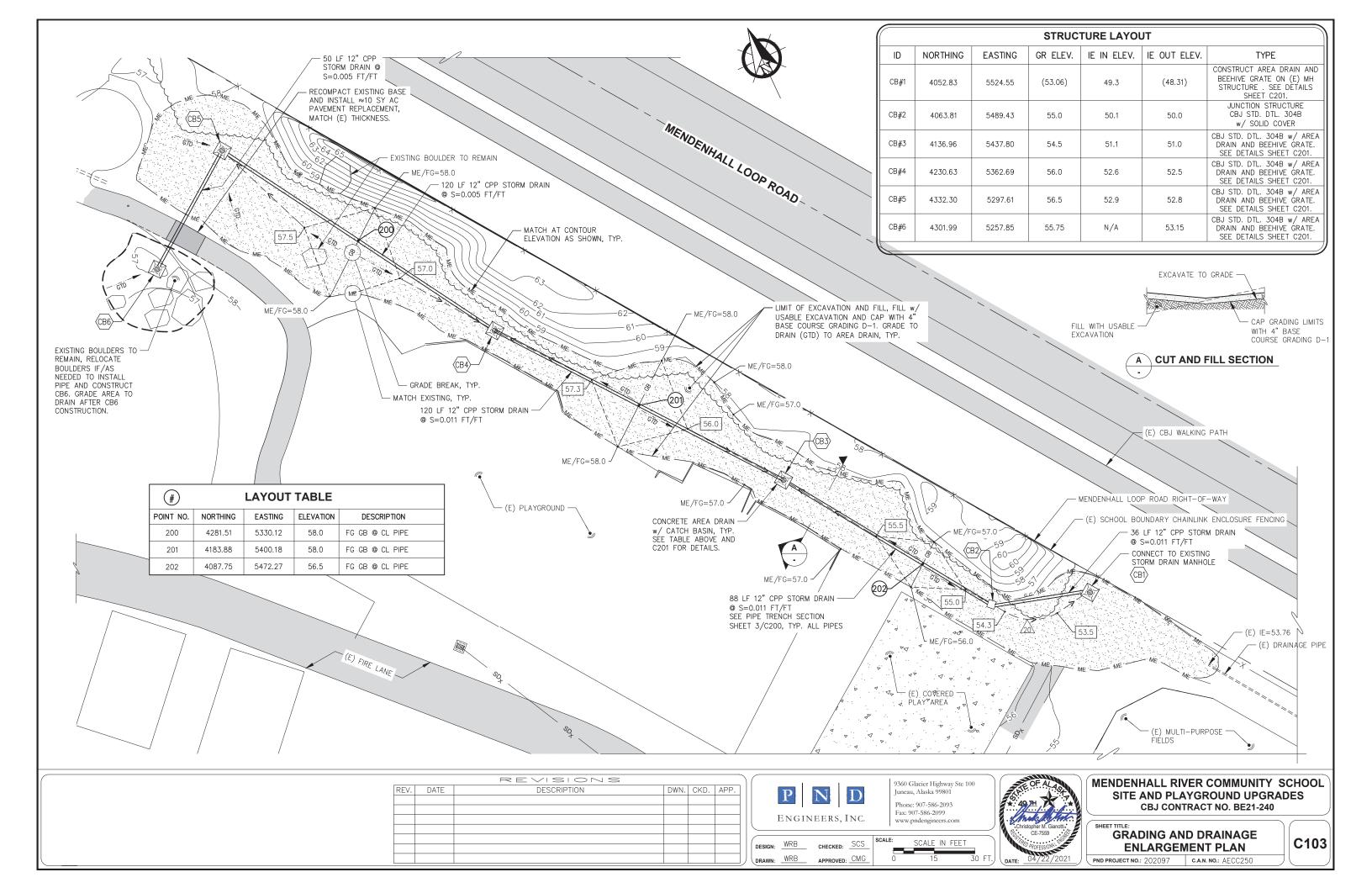


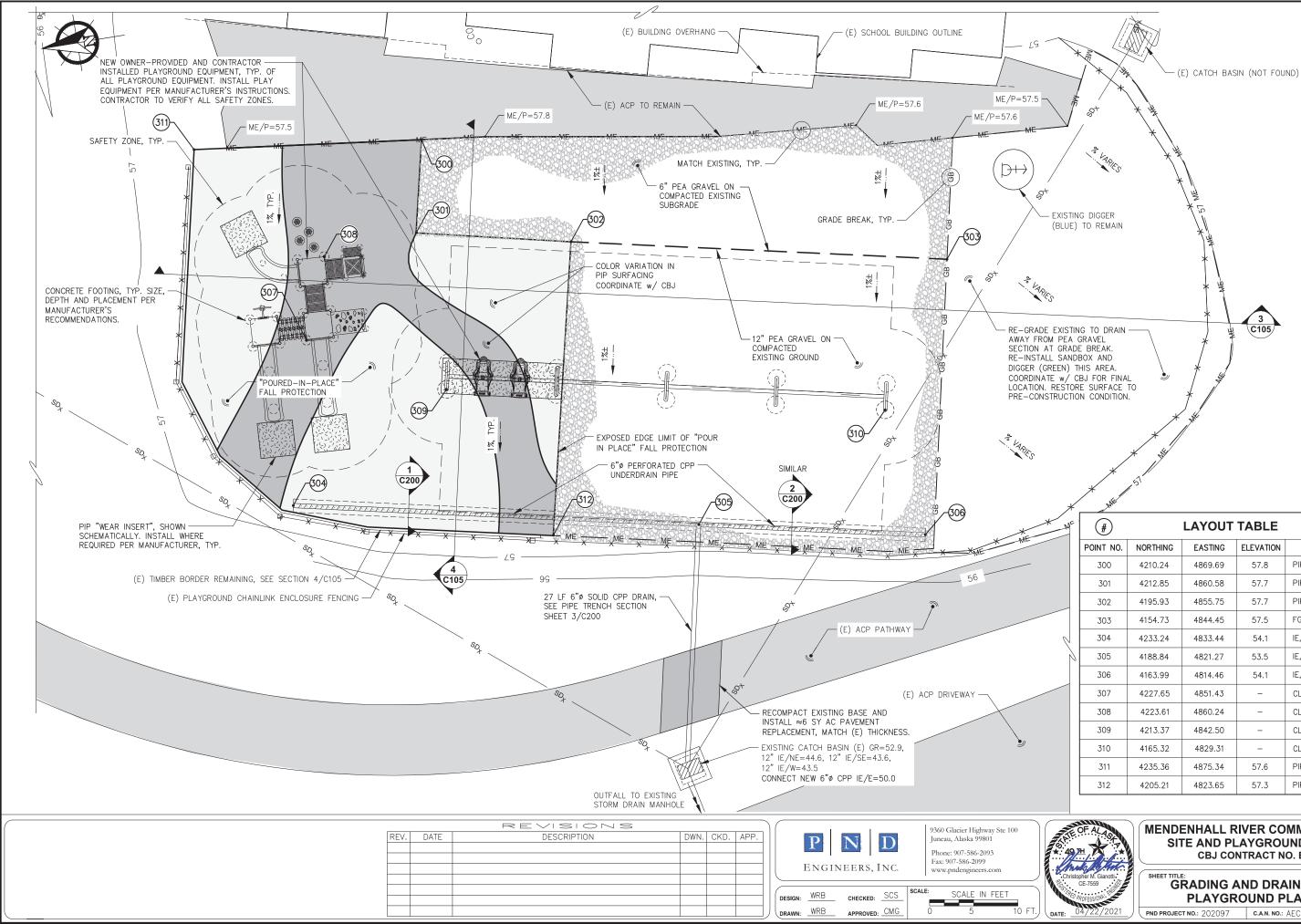










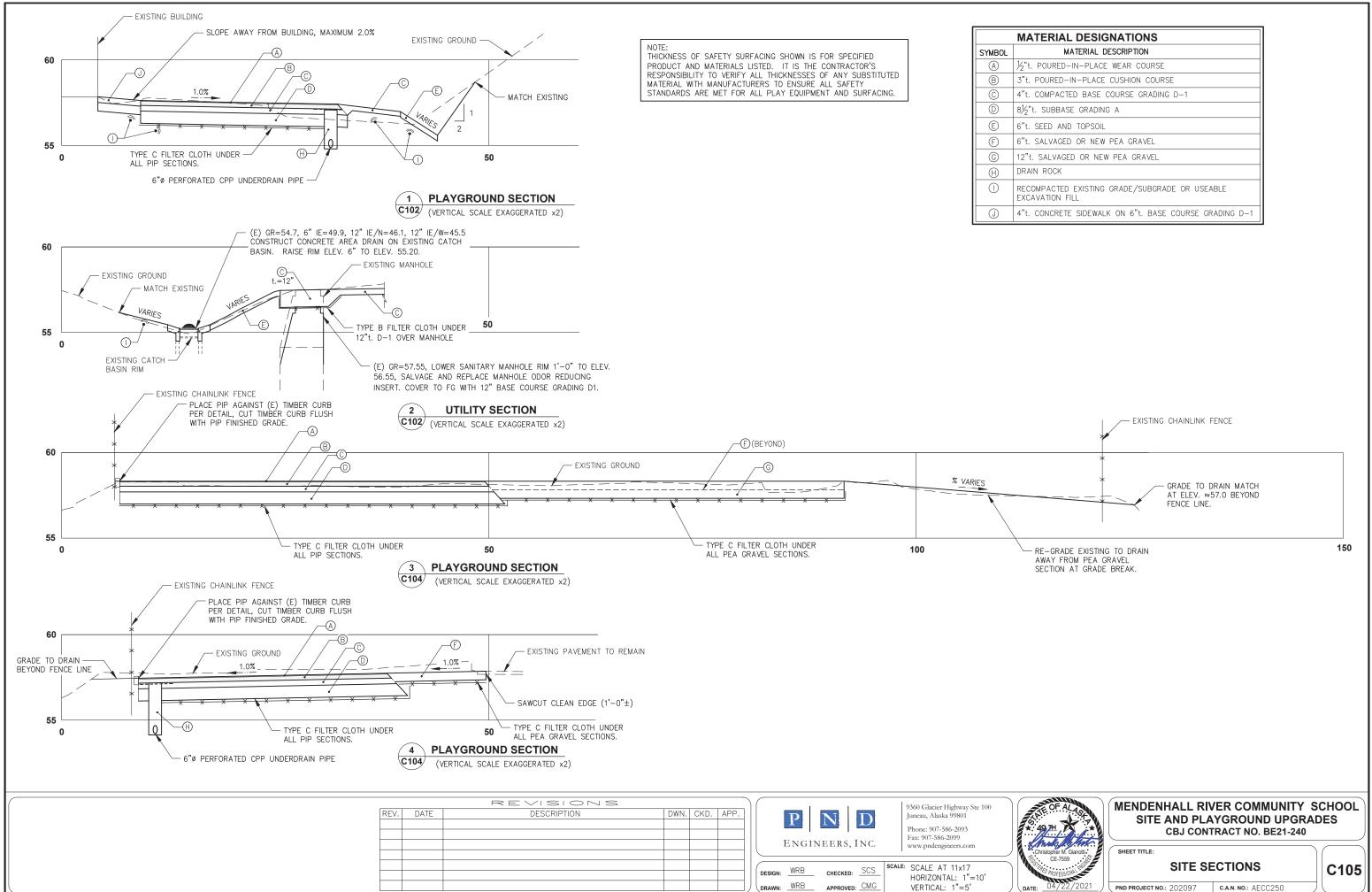


						/ I
		TABLE	LAYOUT		#	ANE .
ON	DESCRIPTION	ELEVATION	EASTING	NORTHING	POINT NO.	
	PIP, CORNER	57.8	4869.69	4210.24	300	
	PIP, <pt< td=""><td>57.7</td><td>4860.58</td><td>4212.85</td><td>301</td><td></td></pt<>	57.7	4860.58	4212.85	301	
	PIP, <pt< td=""><td>57.7</td><td>4855.75</td><td>4195.93</td><td>302</td><td></td></pt<>	57.7	4855.75	4195.93	302	
	FG, GB	57.5	4844.45	4154.73	303	
	IE, PIPE END	54.1	4833.44	4233.24	304	1
	IE, PIPE TEE	53.5	4821.27	4188.84	305	$\left \right\rangle$
	IE, PIPE END	54.1	4814.46	4163.99	306	
	CL FOOTING	-	4851.43	4227.65	307	
	CL FOOTING	-	4860.24	4223.61	308	
	CL FOOTING	_	4842.50	4213.37	309	
	CL FOOTING	-	4829.31	4165.32	310	
	PIP, CORNER	57.6	4875.34	4235.36	311	
	PIP, CORNER	57.3	4823.65	4205.21	312	
_	IE, PIPE TEE IE, PIPE END CL FOOTING CL FOOTING CL FOOTING CL FOOTING PIP, CORNER	53.5 54.1 - - - 57.6	4821.27 4814.46 4851.43 4860.24 4842.50 4829.31 4875.34	4188.84 4163.99 4227.65 4223.61 4213.37 4165.32 4235.36	305 306 307 308 309 310 311	

MENDENHALL RIVER COMMUNITY SCHOOL SITE AND PLAYGROUND UPGRADES CBJ CONTRACT NO. BE21-240

GRADING AND DRAINAGE PLAYGROUND PLAN

PND PROJECT NO.: 202097 C.A.N. NO.: AECC250



ATERIAL DESIGNATIONS MATERIAL DESCRIPTION "t. POURED-IN-PLACE WEAR COURSE t. POURED-IN-PLACE CUSHION COURSE
"t. POURED-IN-PLACE WEAR COURSE
+ POURED-IN-PLACE CUSHION COURSE
t. COMPACTED BASE COURSE GRADING D-1
2"t. SUBBASE GRADING A
t. SEED AND TOPSOIL
t. SALVAGED OR NEW PEA GRAVEL
"t. SALVAGED OR NEW PEA GRAVEL
AIN ROCK
COMPACTED EXISTING GRADE/SUBGRADE OR USEABLE CAVATION FILL
t. CONCRETE SIDEWALK ON 6"t. BASE COURSE GRADING D-1

